Marque distribuée par SPX Lighting

formalighting

High Performance Linear Lights

2020 | 21

High Performance Linear Lights

Plastic free packaging

formalighting

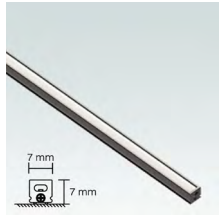
High Performance Linear Lights

Microline Series

Microline 5 x 5

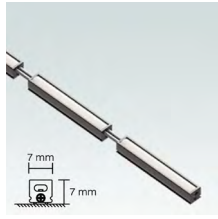
p. 08

Microline 7 x 7



p. 10

Microline 7 x 7
Chain



p. 12

Microline 7 x 7
Corner

p. 14

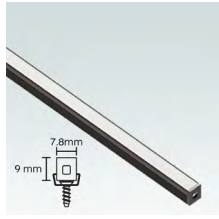
Microline 7 x 7
Corner Chain

p. 16

Microline 10 x 6

p. 18

Microline 9 x 8



p. 20

Microline Ø9

p. 22

Microline Ø14

p. 24

Microline Ø14
Chain

p. 26

Microline 14 x 14

p. 28

Microline 14 x 14
Chain

p. 30

Microline 14 x 14
Corner

p. 32

Microline Spot

p. 34

Microline Spot
Chain

p. 36

High Performance Linear Lights

Cobra Series

Mini Cobra Linealuce

p. 38

Mini Cobra Flex

p. 40

Mini Cobra Linealuce Louvre

p. 42

Mini Cobra Flex Louvre

p. 44

Mini Cobra Pro

p. 46

Mini Cobra Pro Louvre

p. 48

Cobra Linealuce

p. 50

Cobra Flex

p. 52

Cobra Linealuce Louvre

p. 54

Cobra Flex Louvre

p. 56

Cobra Pro IP66 Fixed

p. 58

Cobra Pro IP66 Adjustable

p. 60

Complete Length Codes List

p. 62

Driver Options + Accessories

p. 81

Code Ordering System

p. 91

Plastic free packaging

Microline

5 x 5

Body

Surface mounted modular LED system in extruded aluminium.
Available in different length configurations starting from 55mm with increment of 45mm.
Section 5.8mm width and 5mm height.

Mounting options:
U clips.

*** Plastic free packaging.**

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K. 3-Step McAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Rigid Diffuser (RD).

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 82 for further information.

Finish

Anodized black or aluminium finish.

Applications

Micro linear light system with a disappearing look delivers an homogenous and diffuse light effect. Ideal for tiny showcase and under cabinet illumination.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

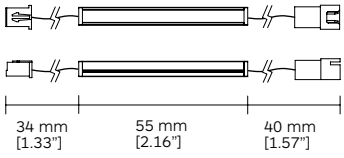
Microline 7 x 7
P. 10

Microline 5 x 5

16W/m

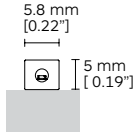
Microline
5 x 5

Min. L= 55mm (2.16")



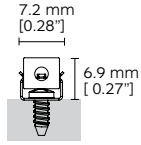
Section Size

Without U clip



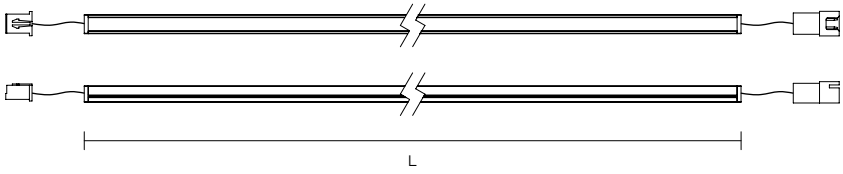
Mounting options

With mounting U clip



Max. L= 1990mm (78.34")

Increment: 45mm (1.77")



Code ordering example: **G 4 6 6 0 0 5 5** - 9 7 2 7 RD 0 0 1 0

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline 5 x 5 Min & Max. Length	**G466**	**0055**	LED	**97**	**27** 2700K	16W/m	1420 lm/m	**RD**	**00** No Driver	**10** Black
		1990			**30** 3000K					**70** Aluminium
					35 3500K					
					40 4000K					

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 82 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

*** For complete list of length codes, please see page 62.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

RD = Opal rigid diffuser. Ordering code; **RD**.

Microline

7 x 7

Body

Surface mounted LED system in extruded aluminium.
Available in different length configurations starting from 50mm with increment of 45mm.
Section 7x7mm.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Finish

Anodized black or aluminium finish.

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Diffuser (OD).
Lenticular Transparent Diffuser (TD).
Opal Rigid Diffuser (RD).

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 82 for further information.

Applications

Miniature linear light with a disappearing look delivers an homogenous and diffuse light effect, making it the ideal product for showcase and under cabinet illumination.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline 7 x 7 Chain P. 12

Microline 7 x 7 Corner P. 14

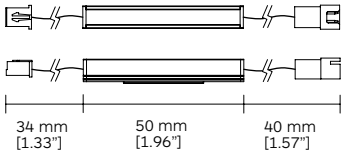
Microline 7 x 7 Corner Chain P. 16

Microline 7 x 7

19W/m

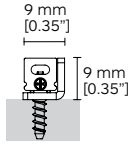
Microline
7 x 7

Min. L= 50mm (1.96")

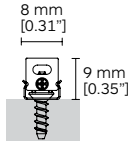


Mounting options

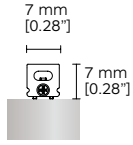
With magnet L bracket



With mounting U clip

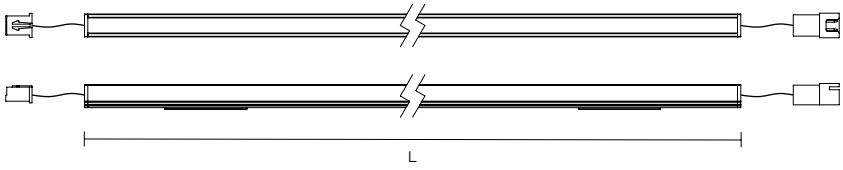


With magnet



Max. L= 2030mm (79.92")

Increment: 45mm (1.77")



Code ordering example: **G 4 4 7 0 0 5 0** - 9 7 2 7 O D 0 0 1 0

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline 7 x 7 Min & Max. Length	**G447**	**0050**	LED	**97**	**27** 2700K	19W/m	1694 lm/m	**OD**	**00** No Driver	**10** ■ Black
		2030			**30** 3000K			**TD**		**70** ■ Aluminium
					35 3500K			**RD**		
					40 4000K					

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 82 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

*** For complete list of length codes, please see page 63.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

OD = Opal diffuser. Ordering code; **OD**.

TD = Transparent lenticular diffuser. Ordering code; **TD**.

RD = Opal rigid diffuser. Ordering code; **RD.**

Microline

7 x 7 Chain

Body

Surface mounted modular flexible LED system in extruded aluminium.
Available in different length configurations based on 49mm link with increment of 59mm.
Section 7x7mm.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Finish

Anodized black or aluminium finish.

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Diffuser (OD).
Lenticular Transparent Diffuser (TD).
Opal Rigid Diffuser (RD).

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 82 for further information.

Applications

Curvaceous miniature linear light with a disappearing look delivers an homogenous and diffuse light effect, making it the ideal product for showcase and under cabinet illumination.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline 7 x 7
P. 10

Microline 7 x 7 Corner
P. 14

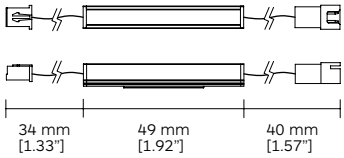
Microline 7 x 7 Corner Chain
P. 16

Microline 7 x 7 Chain

0.86W/Link

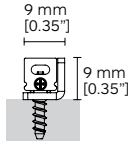
Microline
7 x 7 Chain

Min. L= 49mm (1.92”), 1 Link

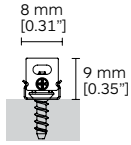


Mounting options

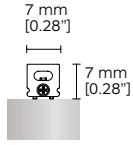
With magnet L bracket



With mounting U clip

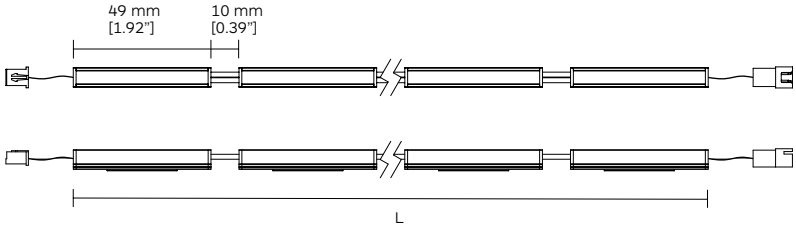


With magnet



Max. L= 2645mm (104.13”), 45 Links

Increment: 59mm (2.32”), 1 Link



Code ordering example: **G 4 4 2 0 0 4 9** _ **9 7 2 7 OD 0 0 1 0**

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline 7 x 7 Chain Min & Max. Length	**G442**	**0049** **2645**	LED	**97**	**27** 2700K **30** 3000K **35** 3500K **40** 4000K	0.86W/Link	77 lm/Link	**OD** **TD** **RD**	**00** No Driver	**10** ■ Black **70** ■ Aluminium

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 82 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

*** For complete list of length codes, please see page 64.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

OD = Opal diffuser. Ordering code; **OD**.

TD = Transparent lenticular diffuser. Ordering code; **TD**.

RD = Opal rigid diffuser. Ordering code; **RD.**

Microline

7 x 7 Corner

Body

Surface mounted LED system in extruded aluminium.
Specific shape to fit in corners.
Available in different length configurations starting from 50mm with increment of 45mm.
Triangular section 7x7mm.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Diffuser (OD).
Lenticular Transparent Diffuser (TD).

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 82 for further information.

Finish

Anodized black or aluminium finish.

Applications

Miniature linear light for showcase and under cabinet diffuse illumination. Its peculiar shape allow it to fit in corners illuminating the surface from a 45 degree angle.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline 7 x 7
P. 10

Microline 7 x 7 Chain
P. 12

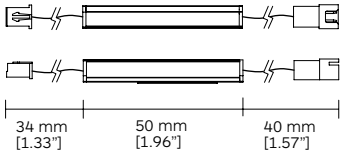
Microline 7 x 7 Corner Chain
P. 16

Microline 7 x 7 Corner

19W/m

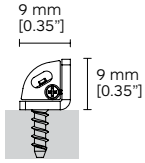
Microline
7 x 7 Corner

Min. L= 50mm (1.96")

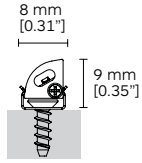


Mounting options

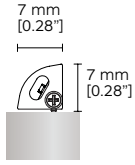
With magnet L bracket



With mounting U clip

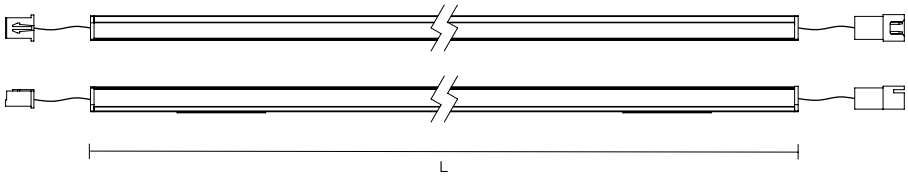


With magnet



Max. L= 2030mm (79.92")

Increment: 45mm (1.77")



Code ordering example: **G 4 4 6 0 0 5 0** - 9 7 2 7 O D 0 0 1 0

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline 7 x 7 Corner	**G446**	**0050**	LED	**97**	**27** 2700K	19W/m	1694 lm/m	**OD**	**00** No Driver	**10** Black
Min & Max. Length		**2030**			**30** 3000K			**TD**		**70** Aluminium
					35 3500K					
					40 4000K					

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 82 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

*** For complete list of length codes, please see page 65.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

OD = Opal diffuser. Ordering code; **OD**.

TD = Transparent lenticular diffuser. Ordering code; **TD**.

Microline

7 x 7 Corner Chain

Body

Surface mounted modular flexible LED system in extruded aluminium.
Available in different length configurations based on 49mm link with increment of 59mm.
Triangular section 7x7mm.

Mounting options:
Integrated magnets, for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Diffuser (OD).
Lenticular Transparent Diffuser (TD).

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 82 for further information.

Finish

Anodized black or aluminium finish.

Applications

Curvaceous miniature linear light ideal for showcase and under cabinet diffuse illumination. Its peculiar shape allow it to fit in corners illuminating the surface from a 45 degree angle.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline 7 x 7
P. 10

Microline 7 x 7 Chain
P. 12

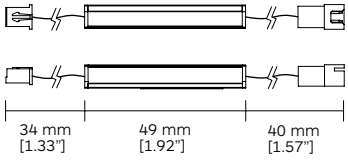
Microline 7 x 7 Corner
P. 14

Microline 7 x 7 Corner Chain

0.86W/Link

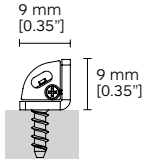
Microline
7 x 7 Corner Chain

Min. L= 49mm (1.92”), 1 Link

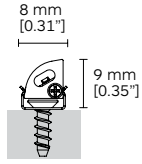


Mounting options

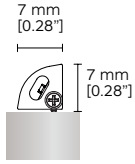
With magnet L bracket



With mounting U clip

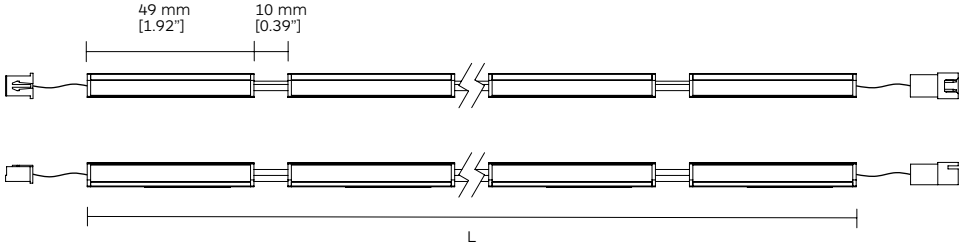


With magnet



Max. L= 2645mm (104.13”), 45 Links

Increment: 59mm (2.32”), 1 Link



Code ordering example: **G 4 3 1 0 0 4 9** _ **9 7 2 7 OD 0 0 1 0**

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline 7 x 7 Corner Chain Min & Max. Length	**G431**	**0049** **2645**	LED	**97**	**27** 2700K **30** 3000K **35** 3500K **40** 4000K	0.86W/Link	77 lm/Link	**OD** **TD**	**00** No Driver	**10** Black **70** Aluminium

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 82 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

*** For complete list of length codes, please see page 66.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

OD = Opal diffuser. Ordering code; **OD**.

TD = Transparent lenticular diffuser. Ordering code; **TD**.

Microline

10 x 6

Body

Surface mounted modular LED system in extruded aluminium.
Available in different length configurations starting from 60mm with increment of 45mm.
Section 10x6mm.

Mounting options:
U mounting clips.

*** Plastic free packaging.**

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Rigid Diffuser (RD).

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 83 for further information.

Finish

Anodized black or aluminium finish.

Applications

Miniature linear light with a disappearing look delivers an homogenous and diffuse light effect, making it the ideal product for showcase and under cabinet illumination.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

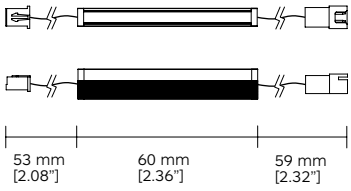
Microline 9 x 8
P. 20

Microline 10 x 6

16W/m

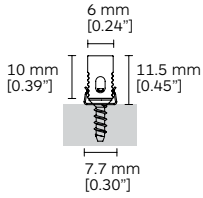
Microline
10 x 6

Min. L= 60mm (2.36")



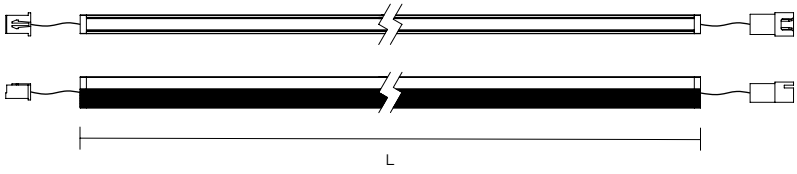
Mounting options

With mounting U clip



Max. L= 1995mm (78.54")

Increment: 45mm (1.77")



Code ordering example: **G460 0060** - **97 27 RD 00 10**

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline 10 x 6 Min & Max. Length	**G460**	**0060**	LED	**97**	**27** 2700K	16W/m	1420 lm/m	**RD**	**00** No Driver	**10** Black
		1995			**30** 3000K					**70** Aluminium
					35 3500K					
					40 4000K					

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 83 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

*** For complete list of length codes, please see page 67.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

RD = Opal rigid diffuser. Ordering code; **RD**.

Microline

9 x 8

Body

Surface mounted modular LED system in extruded aluminium.
Available in different length configurations starting from 60mm with increment of 45mm.
Section 9x8mm.

Mounting options:
U mounting clips.

*** Plastic free packaging.**

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Rigid Diffuser (RD).

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 83 for further information.

Finish

Anodized black or aluminium finish.

Applications

Miniature linear light with a disappearing look delivers an homogenous and diffuse light effect, making it the ideal product for showcase and under cabinet illumination.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

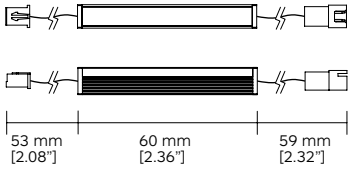
Microline 10 x 6
P. 18

Microline 9 x 8

16W/m

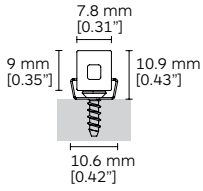
Microline
9 x 8

Min. L= 60mm (2.36")



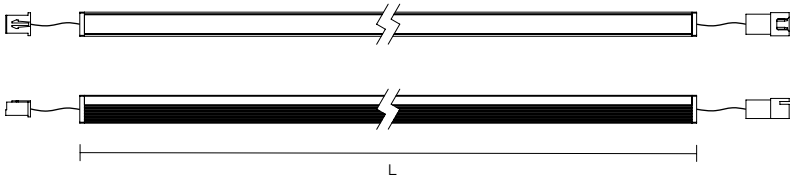
Mounting options

With mounting U clip



Max. L= 1995mm (78.54")

Increment: 45mm (1.77")



Code ordering example: **G 4 6 1 0 0 6 0** _ **9 7 2 7 R D 0 0 1 0**

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline 9 x 8 Min & Max. Length	**G461**	**0060** **1995**	LED	**97**	**27** 2700K **30** 3000K **35** 3500K **40** 4000K	16W/m	1420 lm/m	**RD**	**00** No Driver	**10** Black **70** Aluminium

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 83 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

*** For complete list of length codes, please see page 68.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

RD = Opal rigid diffuser. Ordering code; **RD**.

Microline

Ø9

Body

Surface mounted LED system in extruded aluminium.
Available in different length configurations starting from 40mm with increment of 35mm.
Section diameter 9mm.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Diffuser (OD).
Lenticular Transparent Diffuser (TD).

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 83 for further information.

Finish

Anodized black or aluminium finish.

Applications

Miniature linear light with a disappearing look delivers an homogenous and diffuse light effect, making it the ideal product for showcase and under cabinet illumination.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline Ø14
P. 24

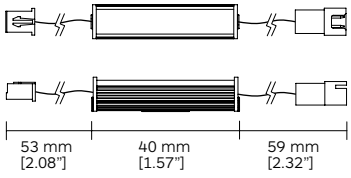
Microline Ø14 Chain
P. 26

Microline Ø9

19W/m

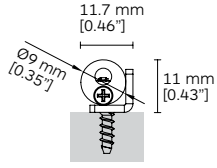
Microline
Ø9

Min. L= 40mm (1.57")

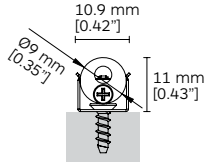


Mounting options

With magnet L bracket

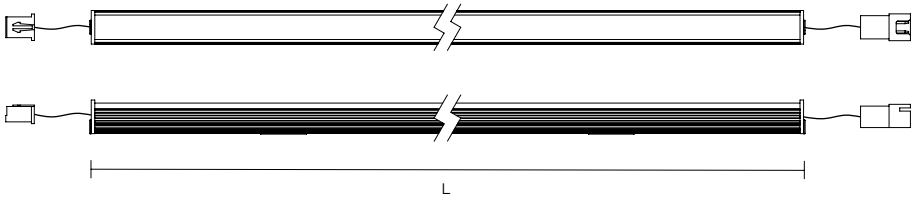


With mounting U clip



Max. L= 2105mm (82.87")

Increment: 35mm (1.37")



Code ordering example: **G 4 2 1 0 0 4 0** . **9 7 2 7 O D 0 0 1 0**

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline Ø9 Min & Max. Length	**G421**	**0040**	LED	**97**	**27** 2700K	19W/m	1694 lm/m	**OD**	**00** No Driver	**10** ■ Black
		2105			**30** 3000K			**TD**		**70** ■ Aluminium
					35 3500K					
					40 4000K					

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 83 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

*** For complete list of length codes, please see page 69.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

OD = Opal diffuser. Ordering code; **OD**.

TD = Transparent lenticular diffuser. Ordering code; **TD**.

Microline

Ø14

Body

Surface mounted LED system in extruded aluminium.
Available in different length configurations starting from 35mm with increment of 30mm.
Section diameter 14mm.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Finish

Anodized black or aluminium finish.

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Diffuser (OD).
Lenticular Transparent Diffuser (TD).
Opal Rigid Diffuser (RD).

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 83 for further information.

Applications

Miniature linear light with a disappearing look delivers an homogenous and diffuse light effect, making it the ideal product for showcase and under cabinet illumination.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline Ø9
P. 22

Microline Ø14 Chain
P. 26

Microline Spot
P. 34

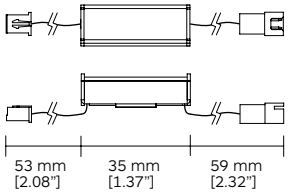
Microline Spot Chain
P. 36

Microline Ø14

16W/m | 20W/m | 31W/m

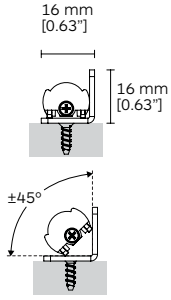
Microline
Ø14

Min. L= 35mm (1.37")

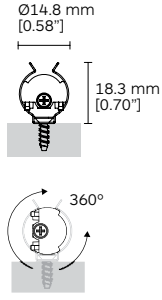


Mounting options

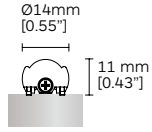
With magnet L bracket



With mounting U clip

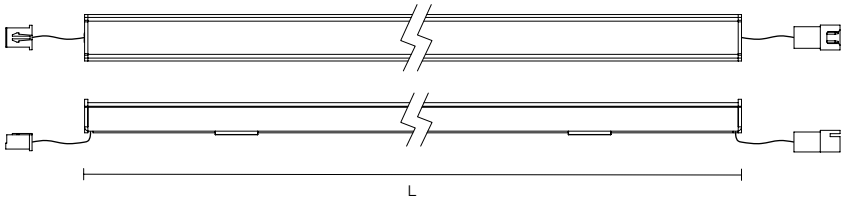


With magnet



G422 with Max. L= 1925mm (75.79")
G445 & G420 with Max. L= 2105mm (82.87")

Increment: 30mm (1.18")



Code ordering example: **G 4 4 5 0 9 9 5** _ **9 7 2 7 OD 0 0 1 0**

	Product code*	Length code***	Light Source	>CRI	CCT**		LED Power	Nominal Lumen	Diffuser	Driver Options		Finish
Microline Ø14 16W/m	**G445**	**0995**	LED	**97**	**27**	2700K	16W/m	1287lm/m	**OD**	**00**	No Driver	**10** ■ Black
					30	3000K			**TD**			**70** ■ Aluminium
Microline Ø14 20W/m	**G420**				**35**	3500K	20W/m	1815lm/m	**RD**			
					40	4000K						
Microline Ø14 31W/m	**G422**						31W/m	3152lm/m				

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 83 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, Tuneable White / RGB / RGBW version, please contact us.

*** For complete list of length codes, please see pages 70 to 72.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

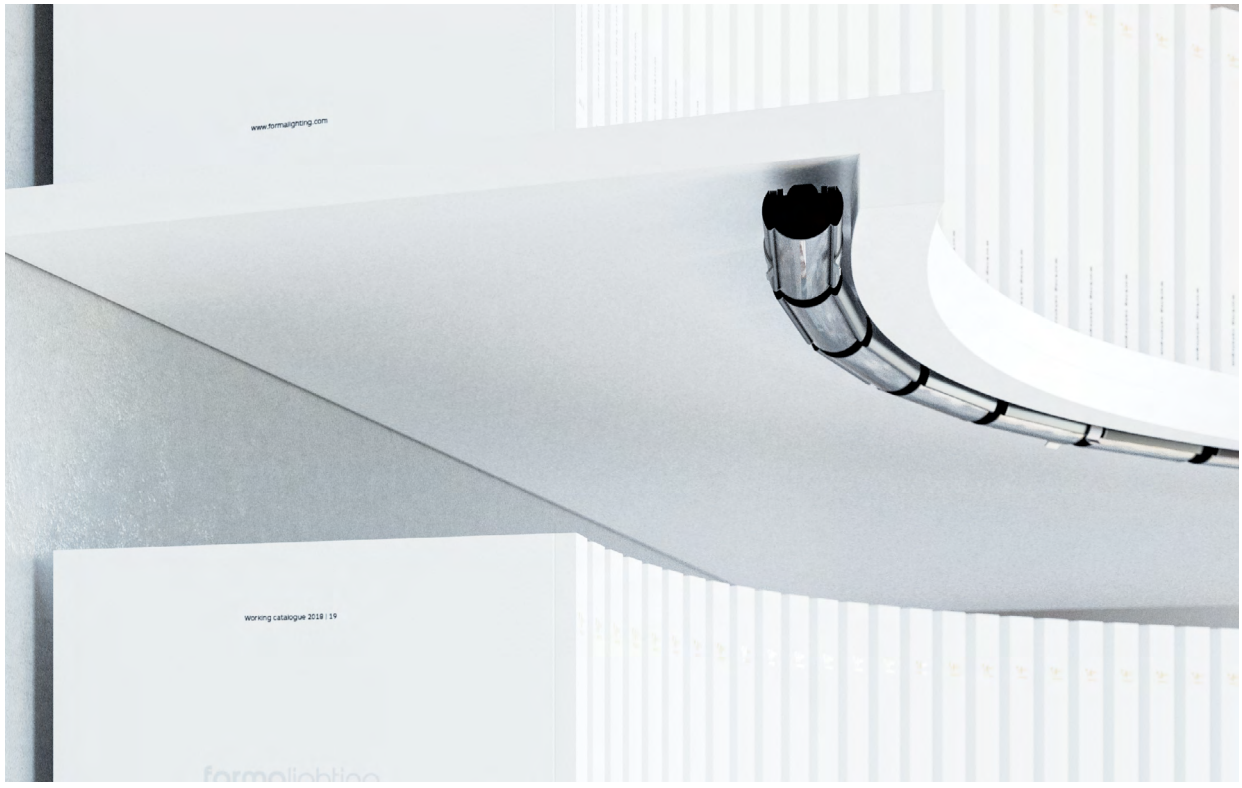
OD = Opal diffuser. Ordering code; **OD**.

TD = Transparent lenticular diffuser. Ordering code; **TD**.

RD = Opal rigid diffuser. Ordering code; **RD.**

Microline

Ø14 Chain



Body

Surface mounted modular flexible LED system in extruded aluminium.
Available in different length configurations based on 65mm link with a 75mm increment.
Section 14mm diameter.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Finish

Anodized black or aluminium finish.

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Diffuser (OD).
Lenticular Transparent Diffuser (TD).
Opal Rigid Diffuser (RD).

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 83 for further information.

Applications

Curvaceous miniature linear light with a disappearing look delivers an homogenous and diffuse light effect. its peculiar structure allow it to fit in cove curved surfaces. Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline Ø9 P. 22

Microline Ø14 P. 24

Microline Spot P. 34

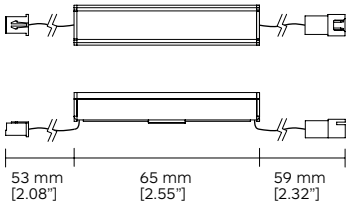
Microline Spot Chain P. 36

Microline Ø14 Chain

1.2W/Link | 1.9W/Link

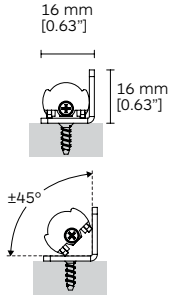
Microline
Ø14 Chain

Min. L= 65mm (2.55"), 1 Link

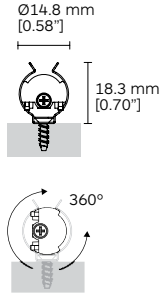


Mounting options

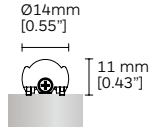
With magnet L bracket



With mounting U clip

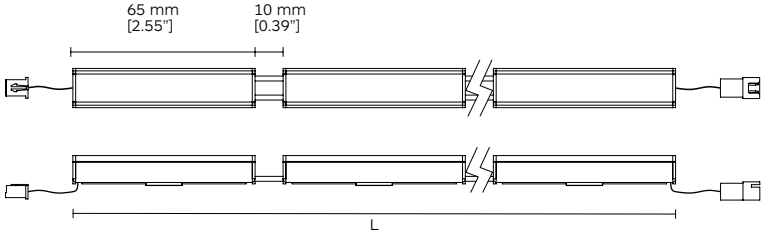


With magnet



G435 with Max. L= 2990mm (117.71"), 40 Links
G436 with Max. L= 2390mm (94.09"), 32 Links

Increment: 75mm (2.95"), 1 Link



Code ordering example: **G435 0065** - **90 27 OD 00 10**

	Product code*	Length code***	Light Source	>CRI	CCT**		LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline Ø14 Chain 1.2W/link	**G435**	**0065**	LED	**97**	**27**	2700K	1.2W/Link	118 lm/Link	**OD**	**00** No Driver	**10** ■ Black
					30	3000K			**TD**		**70** ■ Aluminium
Microline Ø14 Chain 1.9W/link	**G436**				**35**	3500K	1.9W/Link	164 lm/Link	**RD**		
					40	4000K					

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 83 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, Tuneable White / RGB / RGBW version, please contact us.

*** For complete list of length codes, please see pages 73 to 74.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

OD = Opal diffuser. Ordering code; **OD**.

TD = Transparent lenticular diffuser. Ordering code; **TD**.

RD = Opal rigid diffuser. Ordering code; **RD.**

Microline

14 x 14

Body

Surface mounted LED system in extruded aluminium.
Deep regressed light source position.
Available in different length configurations starting from 35mm with increment of 30mm.
Section 14x14mm.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Finish

Anodized black or aluminium finish.

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Diffuser (OD).
Lenticular Transparent Diffuser (TD).
Opal Rigid Diffuser (RD).

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 84 for further information.

Applications

Miniature linear light with a disappearing look delivers an homogenous and diffuse light effect, making it the ideal product for showcase and under cabinet illumination.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

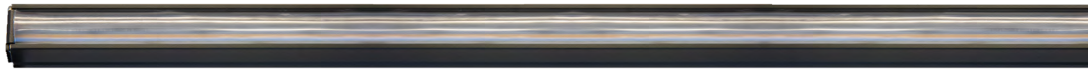
Microline 14 x 14 Chain
P. 30

Microline 14 x 14 Corner
P. 32

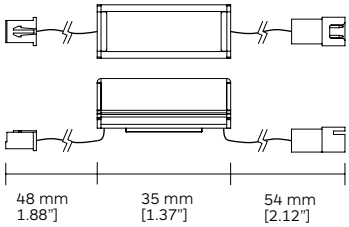
Microline 14 x 14

20W/m

Microline
14 x 14

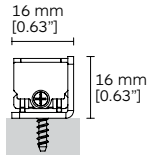


Min. L= 35mm (1.37")

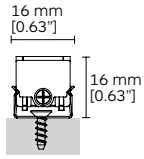


Mounting options

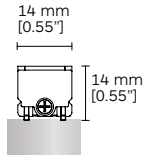
With magnet L bracket



With mounting U clip

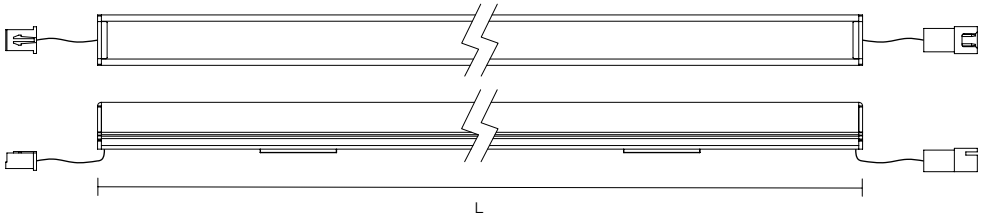


With magnet



Max. L= 2015mm (79.33")

Increment: 30mm (1.18")



Code ordering example: **G 4 4 8 0 0 3 5** _ 9 7 2 7 OD 0 0 1 0

	Product code*	Length code***	Light Source	>CRI	CCT**		LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline 14 x 14 Min & Max. Length	**G448**	**0035**	LED	**97**	**27**	2700K	20W/m	1815 lm/m	**OD**	**00** No Driver	**10** Black
		2015			**30**	3000K			**TD**		**70** Aluminium
					35	3500K			**RD**		
					40	4000K					

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 84 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, Tuneable White / RGB / RGBW version, please contact us.

*** For complete list of length codes, please see page 75.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

OD = Opal diffuser. Ordering code; **OD**.

TD = Transparent lenticular diffuser. Ordering code; **TD**.

RD = Opal rigid diffuser. Ordering code; **RD.**

Microline

14 x 14 Chain

Body

Surface mounted modular flexible LED system in extruded aluminium.
Available in different length configurations based on 65mm link with a 75mm increment.
Section 14x14mm.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Finish

Anodized black or aluminium finish.

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Diffuser (OD).
Lenticular Transparent Diffuser (TD).
Opal Rigid Diffuser (RD).

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 84 for further information.

Applications

Curvaceous miniature linear light with a disappearing look delivers an homogenous and diffuse light effect. its peculiar structure allow it to fit in cove curved surfaces.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline 14 x 14
P. 28

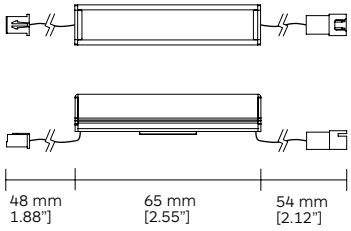
Microline 14 x 14 Corner
P. 32

Microline 14 x 14 Chain

1.2W/Link

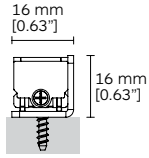
Microline
14 x 14 Chain

Min. L= 65mm (2.55”), 1 Link

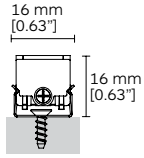


Mounting options

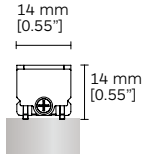
With magnet L bracket



With mounting U clip

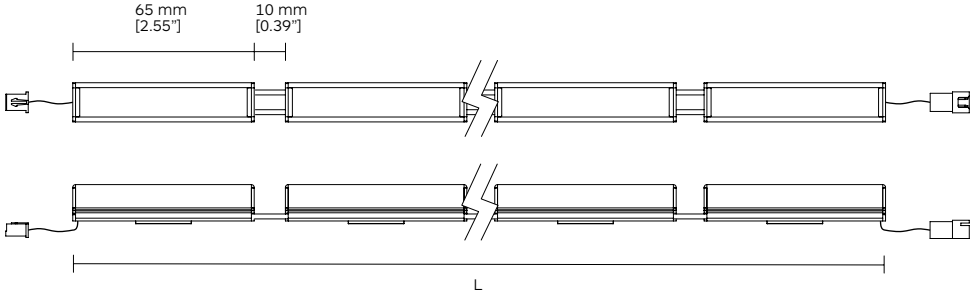


With magnet



Max. L= 2990mm (117.71”), 40 Links

Increment: 75mm (2.95”), 1 Link



Code ordering example: **G 4 4 0 0 0 6 5** - 9 7 2 7 OD 0 0 1 0

	Product code*	Length code***	Light Source	>CRI	CCT**		LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline 14 x 14 Chain	**G440**	**0065**	LED	**97**	**27**	2700K	1.2W/Link	118 lm/Link	**OD**	**00** No Driver	**10** Black
Min & Max. Length		**2990**			**30**	3000K			**TD**		**70** Aluminium
					35	3500K			**RD**		
					40	4000K					

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 84 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, Tuneable White / RGB / RGBW version, please contact us.

*** For complete list of length codes, please see page 76.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

OD = Opal diffuser. Ordering code; **OD**.

TD = Transparent lenticular diffuser. Ordering code; **TD**.

RD = Opal rigid diffuser. Ordering code; **RD.**

Microline

14 x 14 Corner

Body

Surface mounted LED system in extruded aluminium.
Specific shape to fit in corners.
Available in different length configurations starting from 35mm with increment of 30mm.
Triangular section 14x14mm.

Mounting options:
Integrated magnets for easy installation
L brackets.
U mounting clips.

*** Plastic free packaging.**

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Extra Wide Beam Angle.
Opal Rigid Diffuser (RD).

Accessories

Mounting accessories included.
Extension cable Art. 2D58 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 24V Constant Voltage Driver positioned remotely.
See page 84 for further information.

Finish

Anodized black or aluminium finish.

Applications

Miniature linear light for showcase and under cabinet diffuse illumination. Its peculiar shape allow it to fit in corners illuminating the surface from a 45 degree angle.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline 14 x 14
P. 28

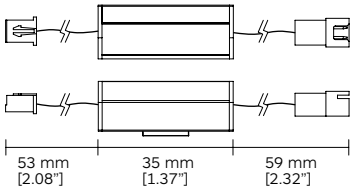
Microline 14 x 14 Chain
P. 30

Microline 14 x 14 Corner

20W/m

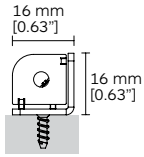
Microline
14 x 14 Corner

Min. L= 35mm (1.37")

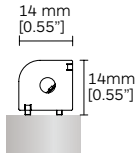


Mounting options

With magnet L bracket

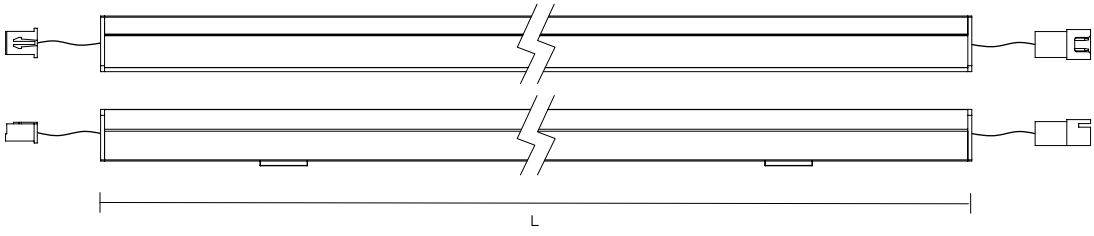


With magnet



Max. L= 2015mm (79.33")

Increment: 30mm (1.18")



Code ordering example: **G 4 5 9 0 0 3 5** - 9 7 2 7 RD 0 0 1 0

	Product code*	Length code***	Light Source	>CRI	CCT**		LED Power	Nominal Lumen	Diffuser	Driver Options		Finish
Microline 14 x 14 Corner	**G459**	**0035**	LED	**97**	**27**	2700K	20W/m	1815 lm/m	**RD**	**00**	No Driver	**10** Black
Min & Max. Length		**2015**			**30**	3000K						**70** Aluminium
					35	3500K						
					40	4000K						

Recommended Driver: Driver to be ordered separately. Work with 24VDC Constant Voltage LED Driver positioned remotely. Suggested Driver: 2V24D0, 2V24D1, 2V24DA. Please see page 84 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, Tuneable White / RGB / RGBW version, please contact us.

*** For complete list of length codes, please see page 77.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

RD = Opal rigid diffuser. Ordering code; **RD**.

Microline

Spot

Body

Surface mounted LED system in extruded aluminium.
Available in different length configurations starting from 85mm with increment of 80mm.
Section 14x13mm.
Constant 40mm pitch between the LED.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

LED sources

Power LED. CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K. 3-Step MacAdam
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 21° / 29° / elliptical (22° x 47°).

Accessories

Mounting accessories included.
Extension cable Art. 2C47 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 700 mA Constant Current Driver positioned remotely.
See page 84 for further information.

Finish

Anodized black or aluminium finish.

Applications

Miniature linear light with a disappearing look emitting a spot light. Ideal solution for display showcase and under cabinet illumination.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline Spot Chain
P. 36

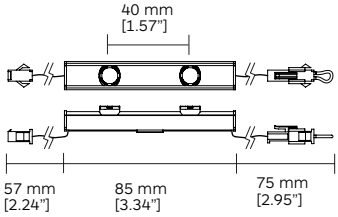
Microline Ø14
P. 24

Microline Ø14 Chain
P. 26

Microline Spot

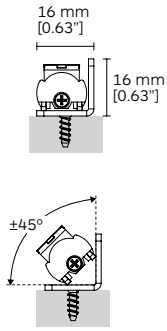
Microline
Spot

Min. L= 85mm (3.34”), 2 LED

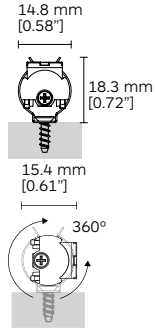


Mounting options

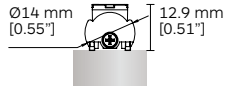
With magnet L bracket



With mounting U clip

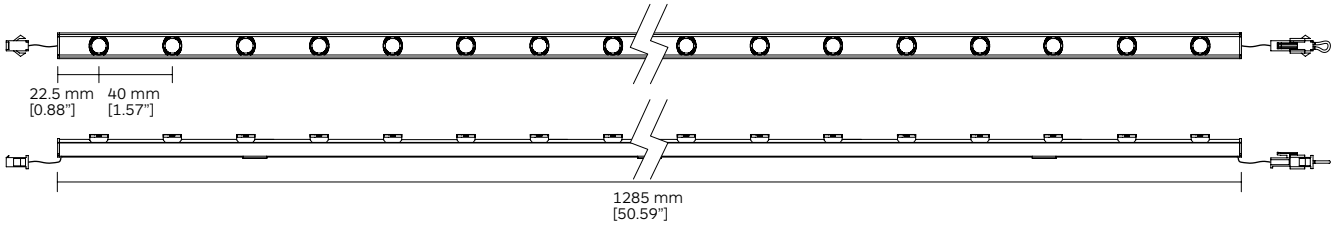


With magnet



Max. L= 1285mm (50.59”), 32 LEDs

Increment: 80mm (3.14”), 2 LEDs



Code ordering example: **G 4 2 6 1 2 8 5** - **9 7 2 7 2 1 0 0 1 0**

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options	Finish
Microline Spot Min & Max. Length	**G426**	**0085**	LED	**97**	**27** 2700K	1W/LED	90 lm/LED	**21 / 29 / EL**	**00** No Driver	**10** ■ Black
		1285			**30** 3000K					**70** ■ Aluminium
					35 3500K					
					40 4000K					

Recommended Driver: Driver to be ordered separately. Work with 700mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C07D0, 2C07D1, 2C07DA. Please see page 84 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

*** For complete list of length codes, please see page 78.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

EL = Eliptical Beam (22° x 47°).

Microline

Spot Chain

Body

Surface mounted modular system in extruded aluminium.
Available in different length configurations based on 100mm modules (2 links per module) with a 110mm increment. Section 14x13mm.
Its flexible structure maintain a constant 55mm pitch between the LED.

Mounting options:
Integrated magnets for easy installation
L brackets.
U mounting clips.

*** Plastic free packaging.**

LED sources

Power LED.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 21° / 29° / elliptical (22° x 47°).

Accessories

Mounting accessories included.
Extension cable Art. 2C47 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 700 mA Constant Current Driver positioned remotely.
See page 85 for further information.

Finish

Anodized black or aluminium finish.

Applications

Miniature linear light with a disappearing look emitting a spot light. Ideal solution for display showcase and under cabinet illumination.
Application areas: Retail, cabinet displays, showcases, jewelry displays, residential, restaurants, museums.

Related Products

Microline Spot
P. 34

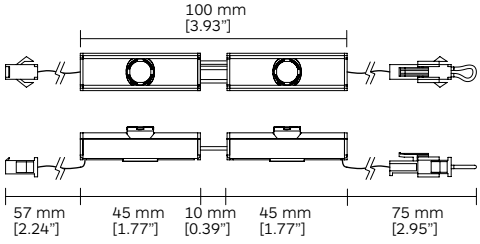
Microline Ø14
P. 24

Microline Ø14 Chain
P. 26

Microline Spot Chain

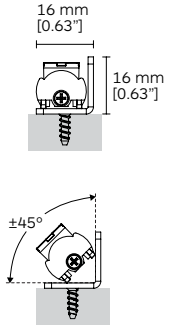
Microline
Spot Chain

Min. L= 100mm (3.93”), 2 LED, 2 Links

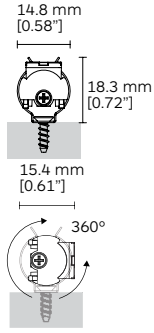


Mounting options

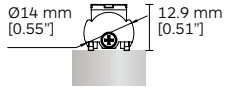
With magnet L bracket



With mounting U clip

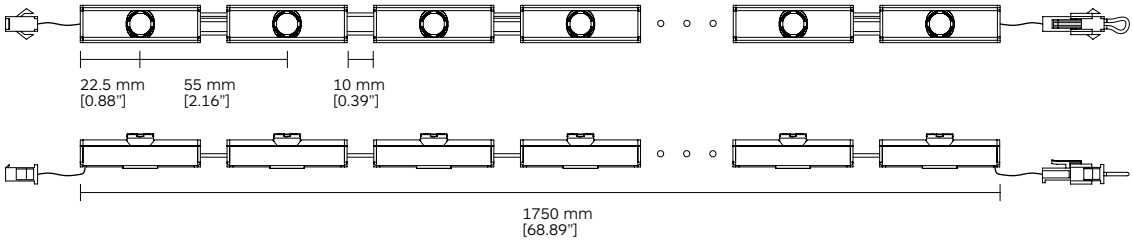


With magnet



Max. L= 1750mm (68.89”), 32 LEDs, 32 Links

Increment: 110mm (4.33”), 2 LED, 2 Links



Code ordering example: **G 4 3 8 0 1 0 0** . **9 7 2 7 2 1 0 0 1 0**

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options	Finish
Microline Spot Chain Min & Max. Length	**G438**	**0100** **1750**	LED	**97**	**27** 2700K **30** 3000K **35** 3500K **40** 4000K	1W/Link	90 lm/Link	**21 / 29 / EL**	**00** No Driver	**10** Black **70** Aluminium

Recommended Driver: Driver to be ordered separately. Work with 700mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C07D0, 2C07D1, 2C07DA. Please see page 85 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

*** For complete list of length codes, please see page 79.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

EL = Eliptical Beam (22° x 47°).

Mini Cobra Linealuce

Designed by Ponctuelle

Body

Surface mounted LED system in extruded aluminium.
Available in different length configurations starting from 65mm with increment of 60mm.
Section 14x14mm.
Constant 30mm pitch between the LED.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2C47 to be ordered separately.

Finish

Anodized black or aluminium finish.

LED sources

Power LED.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 21° / 29° / elliptical (22° x 47°).

Driver

Driver not included to be ordered separately.
Work with 700 mA Constant Current Driver positioned remotely.
See page 85 for further information.

Applications

Ideal for indirect cove illumination, it creates a wall grazing effect for architectonic surfaces. It is also a great pick also for display showcase illumination.
Application areas: Cove light, wallwash, residential, hospitality, restaurants, museums, display showcases.

Related Products

Mini Cobra Flex
P. 40

Mini Cobra Linealuce Louvre
P. 42

Mini Cobra Flex Louvre
P. 44

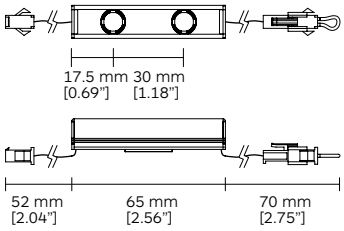
Mini Cobra Pro
P. 46

Mini Cobra Pro Louvre
P. 48

Mini Cobra Linealuce

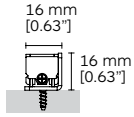
Mini Cobra
Linealuce

Min. L= 65mm (2 x LED)

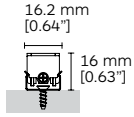


Mounting options

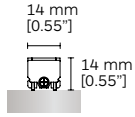
With magnet L bracket



With mounting U clip

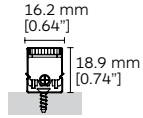


With magnet



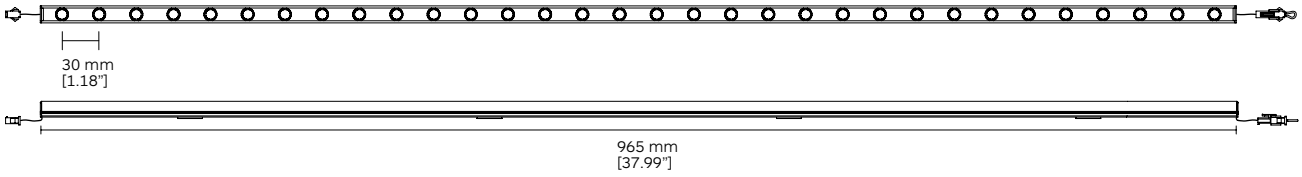
Accessories

Honeycomb Art. 2D97



Max. L= 965mm (32 x LED)

Increment: 60mm (2.36"), 2 LEDs



Available length codes

No. of LEDs	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
2	3.2V	2W	**0065**	65	2.55	180 lm
4	6.4V	4W	**0125**	125	4.92	360 lm
6	9.6V	6W	**0185**	185	7.28	540 lm
8	12.8V	8W	**0245**	245	9.64	720 lm
10	16V	10W	**0305**	305	12.00	900 lm
12	19.2V	12W	**0365**	365	14.37	1080 lm
14	22.4V	14W	**0425**	425	16.73	1260 lm
16	25.6V	16W	**0485**	485	19.09	1440 lm

No. of LEDs	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
18	28.8V	18W	**0545**	545	21.45	1620 lm
20	32V	20W	**0605**	605	23.81	1800 lm
22	35.2V	22W	**0665**	665	26.18	1980 lm
24	38.4V	24W	**0725**	725	28.54	2160 lm
26	41.6V	26W	**0785**	785	30.90	2340 lm
28	44.8V	28W	**0845**	845	33.26	2520 lm
30	48V	30W	**0905**	905	35.62	2700 lm
32	51.2V	32W	**0965**	965	37.99	2880 lm

Code ordering example: **G 4 5 1 0 0 6 5** - 9 7 2 7 2 1 0 0 1 0

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options	Finish
Mini Cobra Linealuce Min & Max. Length	**G451**	**0065**	2 x LED	**97**	**27** 2700K	1W/LED	90 lm/LED	**21 / 29 / EL**	**00** No Driver	**10** Black
		0965	32 x LED		**30** 3000K					**70** Aluminium
					35 3500K					
					40 4000K					

Recommended Driver: Driver to be ordered separately. Work with 700mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C07D0, 2C07D1, 2C07DA. Please see page 85 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

EL = Eliptical Beam (22° x 47°).

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Mini Cobra Flex

Designed by Ponctuelle

Body

Surface mounted modular system in extruded aluminium.
Available in different length configurations based on a 56mm link (2 LED per link) with a 60mm increment.
Section 14x13mm.
Its flexible structure maintain a constant 30mm pitch between the LED.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2C47 to be ordered separately.

Finish

Anodized black or aluminium finish.

LED sources

Power LED.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 21° / 29° / elliptical (22° x 47°).

Driver

Driver not included to be ordered separately.
Work with 700 mA Constant Current Driver positioned remotely.
See page 85 for further information.

Applications

Ideal for indirect cove illumination, it creates a wall grazing effect for columns and curved architectonic surfaces. It is also a great pick also for display showcase illumination.
Application areas: Cove light, wallwash, residential, hospitality, restaurants, museums, display showcases.

Related Products

Mini Cobra Linealuce
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Mini Cobra Linealuce Louvre
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Mini Cobra Pro
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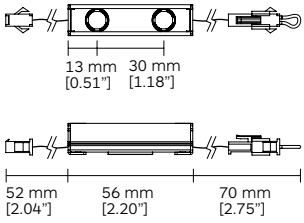
Mini Cobra Flex

IP20 | CE | cULus

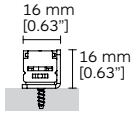
Mini Cobra
Flex

Min. L= 56mm (2 x LED) 1 Link

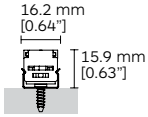


Mounting options

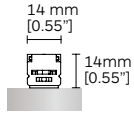
With magnet L bracket



With mounting U clip

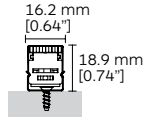


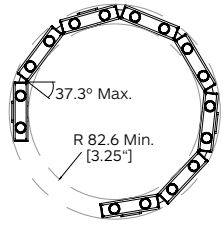
With magnet



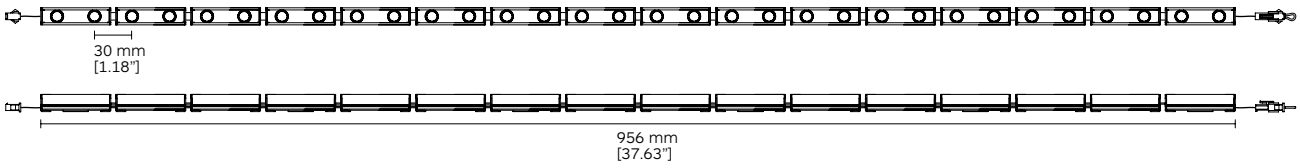
Accessories

Honeycomb Art. 2D97





Max. L= 956mm (32 x LED) 16 Links



Available length codes

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	3.2V	2W	**0056**	56	2.20	180 lm
2	6.4V	4W	**0116**	116	4.56	360 lm
3	9.6V	6W	**0176**	176	6.92	540 lm
4	12.5V	8W	**0236**	236	9.29	720 lm
5	16V	10W	**0296**	296	11.65	900 lm
6	19.2V	12W	**0356**	356	14.01	1080 lm
7	22.4V	14W	**0416**	416	16.37	1260 lm
8	25.6V	16W	**0476**	476	18.74	1440 lm

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
9	28.8V	18W	**0536**	536	21.10	1620 lm
10	32V	20W	**0596**	596	23.46	1800 lm
11	35.2V	22W	**0656**	656	25.82	1980 lm
12	38.4V	24W	**0716**	716	28.18	2160 lm
13	41.6V	26W	**0776**	776	30.55	2340 lm
14	44.8V	28W	**0836**	836	32.91	2520 lm
15	48V	30W	**0896**	896	35.27	2700 lm
16	51.2V	32W	**0956**	956	37.63	2880 lm

Code ordering example: **G 4 3 0 0 0 5 6** - **9 7 2 7 2 1 0 0 1 0**

	Product code*	Length code	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options	Finish
Mini Cobra Flex Min & Max. Length	**G430**	**0056**	2 x LED	**97**	**27** 2700K	1W/LED	90 lm/LED	**21 / 29 / EL**	**00** No Driver	**10** ■ Black
		0956	32 x LED		**30** 3000K					**70** ■ Aluminium
					35 3500K					
					40 4000K					

Recommended Driver: Driver to be ordered separately. Work with 700mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C07D0, 2C07D1, 2C07DA. Please see page 85 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

EL = Eliptical Beam (22° x 47°).

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Mini Cobra Linealuce Louvre

Designed by Ponctuelle

Body

Surface mounted LED system in extruded aluminium.
Available in different length configurations starting from 65mm with increment of 60mm.
Section 14x27mm.
Constant 30mm pitch between the LED.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.
Integrated extruded aluminium louvre.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2C47 to be ordered separately.

Finish

Anodized black or aluminium finish.

LED sources

Power LED.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 21° / 29° / elliptical (22° x 47°).

Driver

Driver not included to be ordered separately.
Work with 700 mA Constant Current Driver positioned remotely.
See page 85 for further information.

Applications

Ideal for indirect cove illumination, it creates a wall grazing effect for architectonic surfaces. It is also a great pick also for display showcase illumination.
Application areas: Cove light, wall grazinger, residential, hospitality, restaurants, museums, display showcases.

Related Products

Mini Cobra Linealuce
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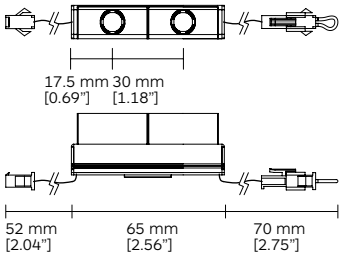
Mini Cobra Linealuce Louvre

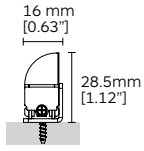
Mini Cobra
Linealuce
Louvre

Min. L= 65mm (2 x LED)

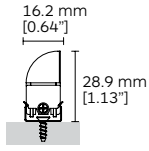


Mounting options

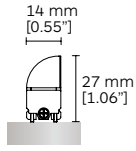
With magnet L bracket



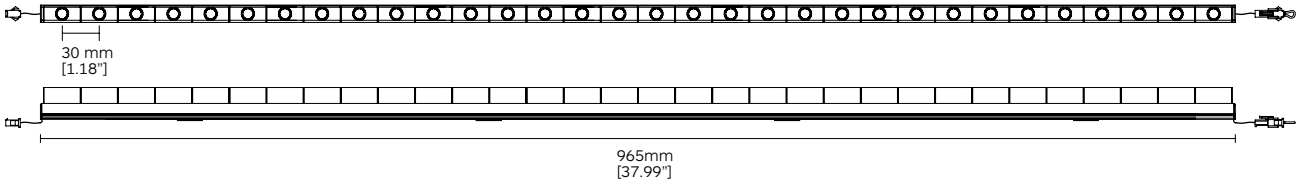
With mounting U clip



With magnet



Max. L= 965mm (32 x LED)



Available length codes

No. of LEDs	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen	No. of LEDs	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
2	3.2V	2W	**0065**	65	2.55	180 lm	18	28.8V	18W	**0545**	545	21.45	1620 lm
4	6.4V	4W	**0125**	125	4.92	360 lm	20	32V	20W	**0605**	605	23.81	1800 lm
6	9.6V	6W	**0185**	185	7.28	540 lm	22	35.2V	22W	**0665**	665	26.18	1980 lm
8	12.8V	8W	**0245**	245	9.64	720 lm	24	38.4V	24W	**0725**	725	28.54	2160 lm
10	16V	10W	**0305**	305	12.00	900 lm	26	41.6V	26W	**0785**	785	30.90	2340 lm
12	19.2V	12W	**0365**	365	14.37	1080 lm	28	44.8V	28W	**0845**	845	33.26	2520 lm
14	22.4V	14W	**0425**	425	16.73	1260 lm	30	48V	30W	**0905**	905	35.62	2700 lm
16	25.6V	16W	**0485**	485	19.09	1440 lm	32	51.2V	32W	**0965**	965	37.99	2880 lm

Code ordering example: **G 4 5 2 0 0 6 5** - **9 7 2 7 2 1 0 0 1 0**

	Product code*	Length code	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options		Finish
Mini Cobra Linealuce Louvre Min & Max. Length	**G452**	**0065** **0965**	2 x LED 32 x LED	**97**	**27** 2700K **30** 3000K **35** 3500K **40** 4000K	1W/LED	90 lm/LED	**21 / 29 / EL**	**00**	No Driver	**10** Black **70** Aluminium

Recommended Driver: Driver to be ordered separately. Work with 700mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C07D0, 2C07D1, 2C07DA. Please see page 85 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

EL = Eliptical Beam (22° x 47°).

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Mini Cobra Flex Louvre

Designed by Ponctuelle

Body

Surface mounted modular system in extruded aluminium.
Available in different length configurations based on a 56mm link (2 LED per link) with a 60mm increment.
Section 15x27mm.
Its flexible structure maintain a constant 30mm pitch between the LED.

Mounting options:
Integrated magnets for easy installation.
L brackets.
U mounting clips.
Integrated extruded alluminium louvre.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2C47 to be ordered separately.

Finish

Anodized black or aluminium finish.

LED sources

Power LED.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 21° / 29° / elliptical (22° x 47°).

Driver

Driver not included to be ordered separately.
Work with 700 mA Constant Current Driver positioned remotely.
See page 85 for further information.

Applications

Ideal for indirect cove illumination, it creates a wall grazing effect for columns and curved architectonic surfaces. It is also a great pick also for display showcase illumination.
Application areas: Cove light, wall grazinger, residential, hospitality, restaurants, museums, display showcases.

Related Products

Mini Cobra Flex
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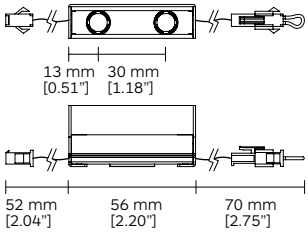
Mini Cobra Flex Louvre

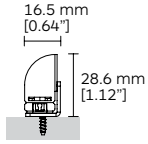
Mini Cobra
Flex Louvre

Min. L= 56mm (2 x LED) 1 Link

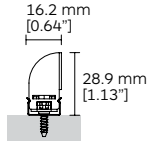


Mounting options

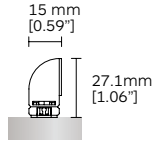
With magnet L bracket

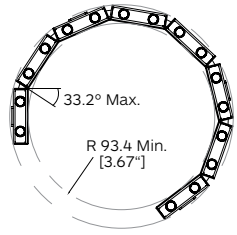


With mounting U clip

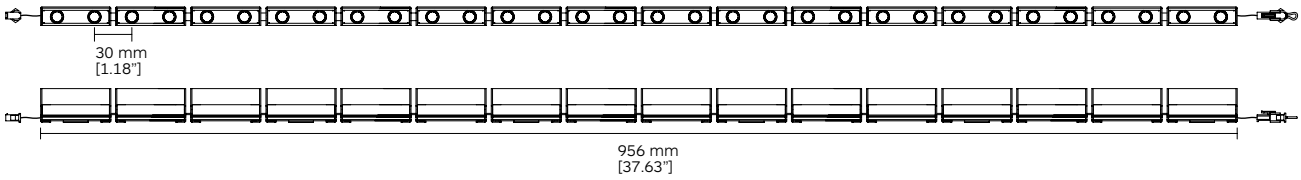


With magnet





Max. L= 956mm (32 x LED) 16 Links



Available length codes

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	3.2V	2W	**0056**	56	2.20	180 lm
2	6.4V	4W	**0116**	116	4.56	360 lm
3	9.6V	6W	**0176**	176	6.92	540 lm
4	12.5V	8W	**0236**	236	9.29	720 lm
5	16V	10W	**0296**	296	11.65	900 lm
6	19.2V	12W	**0356**	356	14.01	1080 lm
7	22.4V	14W	**0416**	416	16.37	1260 lm
8	25.6V	16W	**0476**	476	18.74	1440 lm

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
9	28.8V	18W	**0536**	536	21.10	1620 lm
10	32V	20W	**0596**	596	23.46	1800 lm
11	35.2V	22W	**0656**	656	25.82	1980 lm
12	38.4V	24W	**0716**	716	28.18	2160 lm
13	41.6V	26W	**0776**	776	30.55	2340 lm
14	44.8V	28W	**0836**	836	32.91	2520 lm
15	48V	30W	**0896**	896	35.27	2700 lm
16	51.2V	32W	**0956**	956	37.63	2880 lm

Code ordering example: **G439 0056** - **97 27 21 00 10**

	Product code*	Length code	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options		Finish
Mini Cobra Flex Louvre Min & Max. Length	**G439**	**0056**	2 x LED	**97**	**27** 2700K	1W/LED	90 lm/LED	**21 / 29 / EL**	**00**	No Driver	**10** Black
		0956	32 x LED		**30** 3000K						**70** Aluminium
					35 3500K						
					40 4000K						

Recommended Driver: Driver to be ordered separately. Work with 700mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C07D0, 2C07D1, 2C07DA. Please see page 85 for further information.

Notes:

* For complete code ordering information, please see page 91.

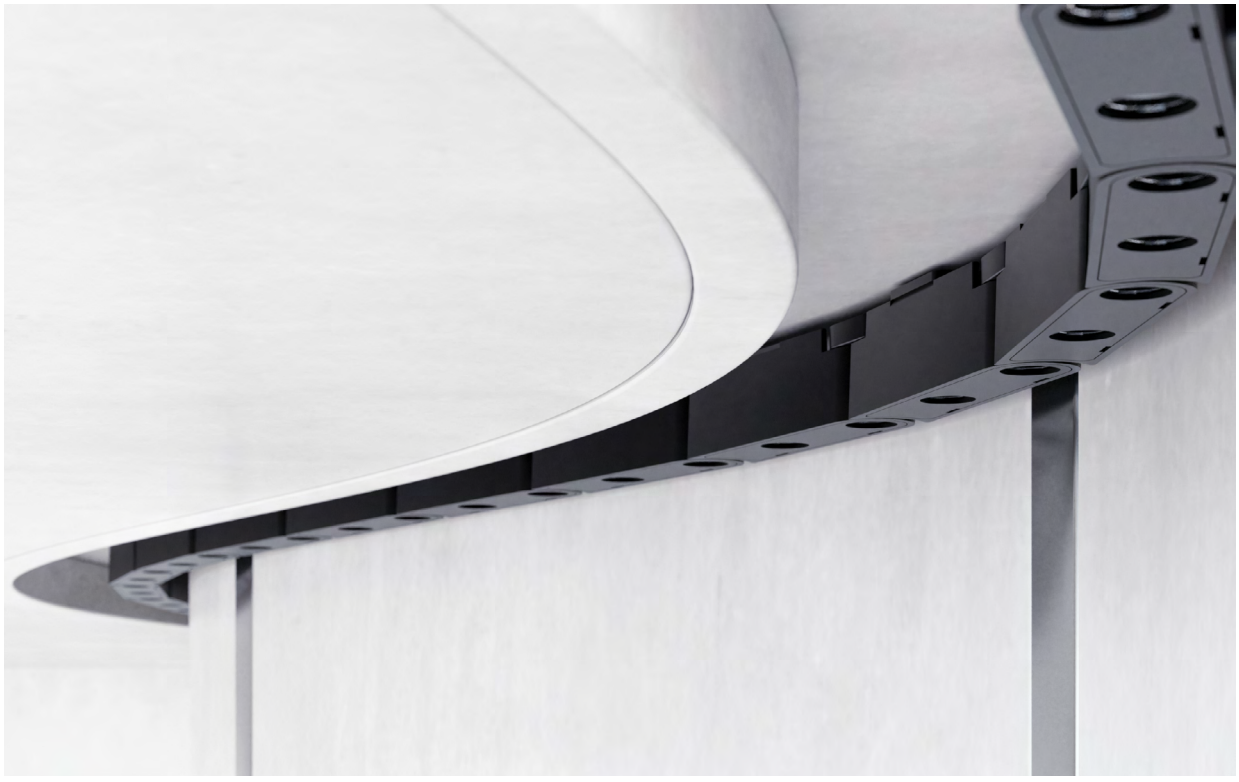
** For other CCT options, please contact us.

EL = Eliptical Beam (22° x 47°).

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Mini Cobra Pro



Body

Surface mounted modular system in die cast aluminium.
Available in different length configurations based on a 62mm link (2 LED per link) with a 60mm increment.
Section 15x17mm.
Its flexible structure maintain a constant 30mm pitch between the LED.

Mounting options:
integrated magnets for easy installation.
L brackets included.

*** Plastic free packaging.**

Accessories

Mounting accessories not included.
Extension cable Art. 2C47 to be ordered separately.

Finish

Powder coat in black colour.

LED sources

Power LED.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 21° / 31° / elliptical (22° x 44°).

Driver

Driver not included to be ordered separately.
Work with 700 mA Constant Current Driver positioned remotely.
See page 86 for further information.

Applications

Ideal for indirect cove illumination, it creates a wall grazing effect for columns and curved architectonic surfaces. It is also a great pick also for display showcase illumination.
Application areas: Cove light, wallwash, residential, hospitality, restaurants, museums, display showcases.

Related Products

Mini Cobra Linealuce
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Mini Cobra Flex
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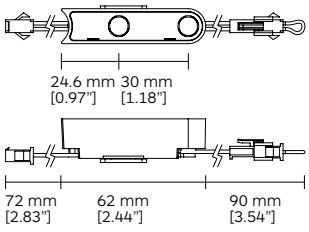
Mini Cobra Pro

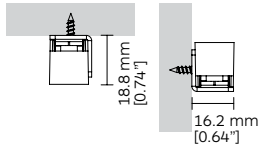
Mini Cobra
Pro

Min. L= 62mm (2 x LED) 1 Link



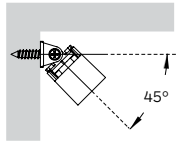
Mounting options

With magnet & L bracket

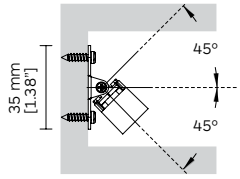


With adjustable bracket: Narrow or Wide bracket

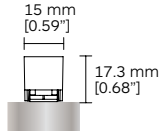
Art. 2D03



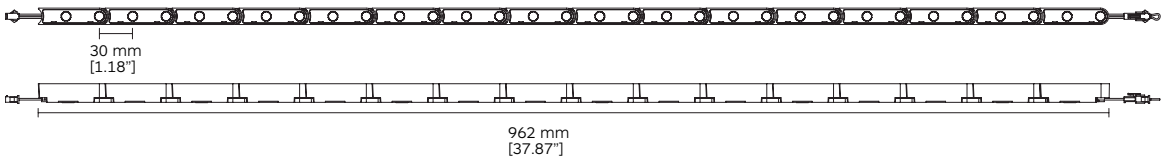
Art. 2D04



With magnet



Max. L= 962mm (32 x LED) 16 Links



Available length codes

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	3.2V	2W	**0062**	62	2.44	180 lm
2	6.4V	4W	**0122**	122	4.80	360 lm
3	9.6V	6W	**0182**	182	7.16	540 lm
4	12.5V	8W	**0242**	242	9.52	720 lm
5	16V	10W	**0302**	302	11.88	900 lm
6	19.2V	12W	**0362**	362	14.25	1080 lm
7	22.4V	14W	**0422**	422	16.61	1260 lm
8	25.6V	16W	**0482**	482	18.97	1440 lm

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
9	28.8V	18W	**0542**	542	21.33	1620 lm
10	32V	20W	**0602**	606	23.70	1800 lm
11	35.2V	22W	**0662**	662	26.06	1980 lm
12	38.4V	24W	**0722**	722	28.42	2160 lm
13	41.6V	26W	**0782**	782	30.78	2340 lm
14	44.8V	28W	**0842**	842	33.14	2520 lm
15	48V	30W	**0902**	902	35.51	2700 lm
16	51.2V	32W	**0962**	962	37.87	2880 lm

Code ordering example: **G 4 6 2 0 0 6 2** - **9 7 2 7 2 1 0 0 1 0**

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options	Finish
Mini Cobra Pro Min & Max. Length	**G462**	**0062**	2 x LED	**97**	**27** 2700K	1W/LED	90 lm/LED	**21 / 31 / EL**	**00** No Driver	**10** ■ Black
		0962	32 x LED		**30** 3000K					
					35 3500K					
					40 4000K					

Recommended Driver: Driver to be ordered separately. Work with 700mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C07D0, 2C07D1, 2C07DA. Please see page 86 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

EL = Eliptical Beam (22° x 44°).

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Mini Cobra Pro Louvre

Body

Surface mounted modular system in die cast aluminium.
Available in different length configurations based on a 62mm link (2 LED per link) with a 60mm increment.
Section 15x30mm.
Its flexible structure maintain a constant 30mm pitch between the LED.

Mounting options:
integrated magnets for easy installation.
L brackets included.
Integrated plastic louvre.

*** Plastic free packaging.**

Accessories

Mounting accessories not included.
Extension cable Art. 2C47 to be ordered separately.

Finish

Powder coat in black colour.

LED sources

Power LED.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 21° / 31° / elliptical (22° x 44°).

Driver

Driver not included to be ordered separately.
Work with 700 mA Constant Current Driver positioned remotely.
See page 86 for further information.

Applications

Ideal for indirect cove illumination, it creates a wall grazing effect for columns and curved architectonic surfaces. It is also a great pick also for display showcase illumination.
Application areas: Cove light, wallwash, residential, hospitality, restaurants, museums, display showcases.

Related Products

Mini Cobra Linealuce
P. 38

Mini Cobra Flex
P. 40

Mini Cobra Linealuce Louvre
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Mini Cobra Flex Louvre
P. 44

Mini Cobra Pro
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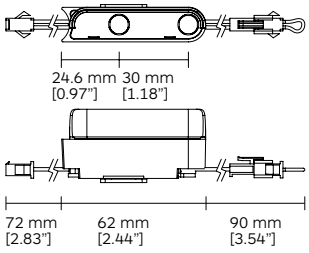
Mini Cobra Pro Louvre

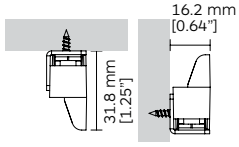
Mini Cobra
Pro Louvre

Min. L= 62mm (2 x LED) 1 Link



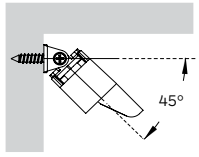
Mounting options

With magnet & L bracket

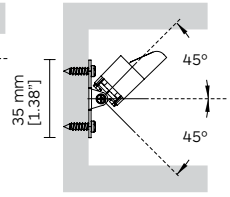


With adjustable bracket: Narrow or Wide bracket

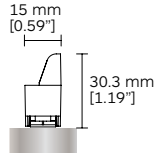
Art. 2D03



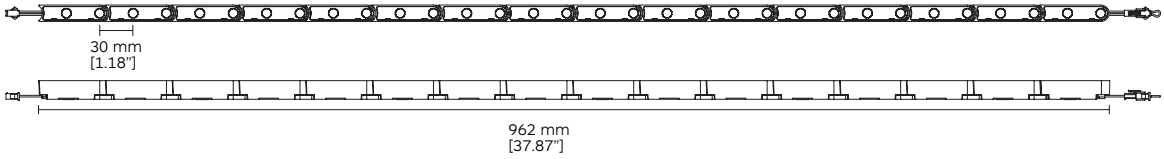
Art. 2D04



With magnet



Max. L= 962mm (32 x LED) 16 Links



Available length codes

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	3.2V	2W	**0062**	62	2.44	180 lm
2	6.4V	4W	**0122**	122	4.80	360 lm
3	9.6V	6W	**0182**	182	7.16	540 lm
4	12.5V	8W	**0242**	242	9.52	720 lm
5	16V	10W	**0302**	302	11.88	900 lm
6	19.2V	12W	**0362**	362	14.25	1080 lm
7	22.4V	14W	**0422**	422	16.61	1260 lm
8	25.6V	16W	**0482**	482	18.97	1440 lm

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
9	28.8V	18W	**0542**	542	21.33	1620 lm
10	32V	20W	**0602**	606	23.70	1800 lm
11	35.2V	22W	**0662**	662	26.06	1980 lm
12	38.4V	24W	**0722**	722	28.42	2160 lm
13	41.6V	26W	**0782**	782	30.78	2340 lm
14	44.8V	28W	**0842**	842	33.14	2520 lm
15	48V	30W	**0902**	902	35.51	2700 lm
16	51.2V	32W	**0962**	962	37.87	2880 lm

Code ordering example: **G 4 6 3 0 0 6 2** _ **9 7 2 7 2 1 0 0 1 0**

	Product code*	Length code***	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options	Finish
Mini Cobra Pro Louvre Min & Max. Length	**G463**	**0062**	2 x LED	**97**	**27** 2700K	1W/LED	90 lm/LED	**21 / 31 / EL**	**00** No Driver	**10** ■ Black
		0962	32 x LED		**30** 3000K					
					35 3500K					
					40 4000K					

Recommended Driver: Driver to be ordered separately. Work with 700mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C07D0, 2C07D1, 2C07DA. Please see page 86 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

EL = Eliptical Beam (22° x 44°).

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Cobra Linealuce

Designed by Ponctuelle

Body

Surface mounted LED system in extruded aluminium.
Available in different length configurations starting from 120mm with increment of 120mm.
Section 30.4x33.7mm.
Constant 30mm pitch between the LED.

Mounting options:
U mounting clips.

*** Plastic free packaging.**

LED sources

Power LED.
CRI: 90 | R9: >50 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 17° / 29° / elliptical (15° x 50°).
Wallwasher optics.

Accessories

Honeycomb Art. 2D88.
Mounting accessories included.
Extension cable Art. 2C47 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 1050 mA Constant Current Driver positioned remotely.
See page 86 for further information.

Finish

Anodized black finish.

Applications

Ideal for indirect cove illumination, it creates a wall grazing effect for columns and curved architectonic surfaces.
The constant pitch between its LED, insures a continuous illumination without any shadows or dark areas.
Application areas: Cove light, wallwash, residential, hospitality, restaurants, museums.

Related Products

Cobra Flex
P. 52

Cobra Linealuce Louvre
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Cobra Flex Louvre
P. 56

Cobra Pro IP66
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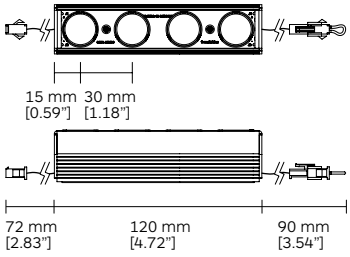
Cobra Linealuce

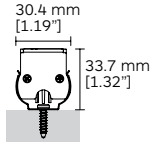
Cobra
Linealuce

Min. L= 120mm (4 x LED)



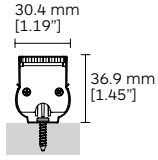
Mounting options

With mounting U clip

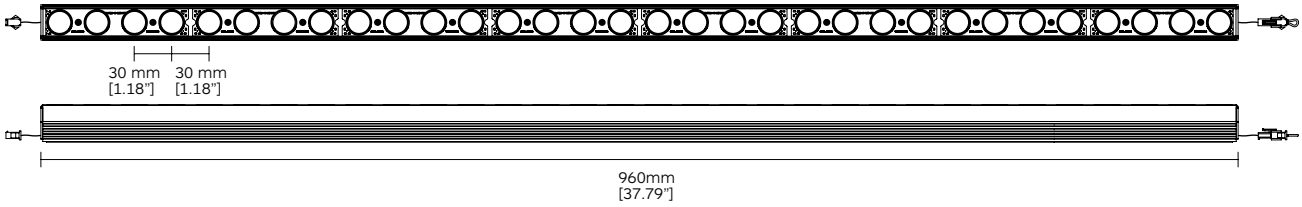


Accessories

Honeycomb Art. 2D88



Max. L= 960 mm (32 x LED)



Available length codes

No. of LEDs	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
4	6.6V	6.3W	**0120**	120	4.72	732 lm
8	13.2V	12.6W	**0240**	240	9.44	1464 lm
12	19.8V	18.9W	**0360**	360	14.17	2196 lm
16	26.4V	25.2W	**0480**	480	18.89	2928 lm

No. of LEDs	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
20	33V	31.5W	**0600**	600	23.62	3660 lm
24	39.6V	37.8W	**0720**	720	28.34	4392 lm
28	46.2V	44.1W	**0840**	840	33.04	5124 lm
32	52.8V	50.4W	**0960**	960	37.79	5856 lm

Code ordering example: **G 4 4 9 0 1 2 0 . 9 0 2 7 1 0 0 0 1 0**

	Product code*	Length code	Light Source	>CRI	CCT**		LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options	Finish
Cobra Linealuce	**G449**	**0120**	4 x LED	**90**	**27**	2700K	1.5W/LED	183lm/LED	**10 / 17 / 29 / EL / WW**	**00** No Driver	**10** ■ Black
Min & Max. Length		**0960**	32 x LED		**30**	3000K					
					35	3500K					
					40	4000K					

Recommended Driver: Driver to be ordered separately. Work with 1050mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C02D0, 2C02D1, 2C02DA. Please see page 86 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, Tuneable White / RGB / RGBW version, please contact us.

EL = Eliptical Beam (15° x 50°). **WW** = Wallwasher optics.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Cobra Flex

Designed by Ponctuelle

Body

Surface mounted modular system in extruded aluminium.
Available in different length configurations based on a 54mm link (2 LED per link) with a 60mm increment.
Section 31.9x32.6mm.
Its flexible structure maintain a constant 30mm pitch between the LED.

Mounting options:
U mounting clips.

*** Plastic free packaging.**

Accessories

Honeycomb Art. 2D88.
Mounting accessories included.
Extension cable Art. 2C47 to be ordered separately.

Finish

Anodized black finish.

LED sources

Power LED. CRI: 90 | R9: >50 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 17° / 29° / elliptical (15° x 50°).
Wallwasher optics.

Driver

Driver not included to be ordered separately.
Work with 1050 mA Constant Current Driver positioned remotely.
See page 86 for further information.

Applications

Ideal for indirect cove illumination, it creates a wall grazing effect for columns and curved architectonic surfaces. Its flexible structure maintain a constant pitch between LED, insuring a continuous illumination without any shadows or dark areas. Application areas: Cove light, wallwash, residential, hospitality, restaurants, museums.

Related Products

Cobra Linealuce
P. 50

Cobra Flex Louvre
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Cobra Linealuce Louvre
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Cobra Pro IP66
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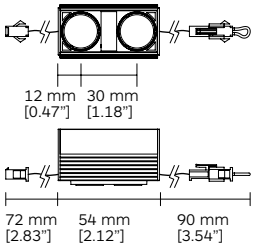
Cobra Flex

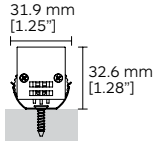
Cobra
Flex

Min. L= 54mm (2 x LED) 1 Link



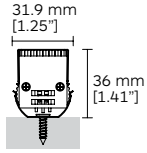
Mounting options

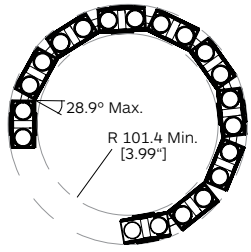
With mounting U clip



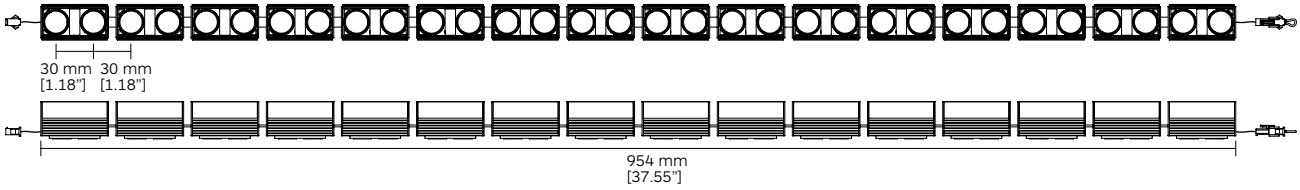
Accessories

Honeycomb Art. 2D88





Max. L= 954mm (32 x LED) 16 Links



Available length codes

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen	No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	3.3V	3.1W	**0054**	54	2.12	366 lm	9	29.7V	28.3W	**0534**	534	21.02	3294 lm
2	6.6V	6.3W	**0114**	114	4.48	732 lm	10	33V	31.5W	**0594**	594	23.38	3660 lm
3	9.9V	9.4W	**0174**	174	6.85	1098 lm	11	36.3V	34.6W	**0654**	654	25.74	4026 lm
4	13.2V	12.6W	**0234**	234	9.21	1464 lm	12	39.6V	37.8W	**0714**	714	28.11	4392 lm
5	16.5V	15.7W	**0294**	294	11.57	1830 lm	13	42.9V	40.9W	**0774**	774	30.47	4758 lm
6	19.8V	18.9W	**0354**	354	13.93	2196 lm	14	46.2V	44.1W	**0834**	834	32.83	5124 lm
7	23.1V	22W	**0414**	414	16.29	2562 lm	15	49.5V	47.2W	**0894**	894	35.19	5490 lm
8	26.4V	25.2W	**0474**	474	18.66	2928 lm	16	52.8V	50.4W	**0954**	954	37.55	5856 lm

Code ordering example: **G 4 0 1 0 0 5 4** - **9 0 2 7 1 0 0 0 1 0**

	Product code*	Length code	Light Source	>CRI	CCT**		LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options		Finish	
Cobra Flex Min & Max. Length	**G401**	**0054**	2 x LED	**90**	**27**	2700K	1.5W/LED	183lm/LED	**10 / 17 / 29 / EL / WW**	**00**	No Driver	**10**	Black
		0954	32 x LED		**30**	3000K							
					35	3500K							
					40	4000K							

Recommended Driver: Driver to be ordered separately. Work with 1050mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C02D0, 2C02D1, 2C02DA. Please see page 86 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, Tuneable White / RGB / RGBW version, please contact us.

EL = Eliptical Beam (15° x 50°). **WW** = Wallwasher optics.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Cobra Linealuce Louvre

Designed by Ponctuelle

Body

Surface mounted LED system in extruded aluminium.
Available in different length configurations starting from 120mm with increment of 120mm.
Section 30.4x46.4mm. Constant 30mm pitch between the LED.

Mounting options:
U mounting clips.
Integrated extruded alluminium louvre.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2C47 to be ordered separately.

Finish

Anodized black finish.

LED sources

Power LED. CRI: 90 | R9: >50 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 17° / 29° / elliptical (15° x 50°).
Wallwasher optics.

Driver

Driver not included to be ordered separately.
Work with 1050 mA Constant Current Driver positioned remotely.
See page 86 for further information.

Applications

Ideal for indirect cove illumination, it creates a wall grazing effect for columns and curved architectonic surfaces.
The constant pitch between its LED, insures a continuous illumination without any shadows or dark areas.
Application areas: Cove light, wall grazinger, residential, hospitality, restaurants, museums.

Related Products

Cobra Linealuce
P. 50

Cobra Flex
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Cobra Flex Louvre
P. 56

Cobra Pro IP66
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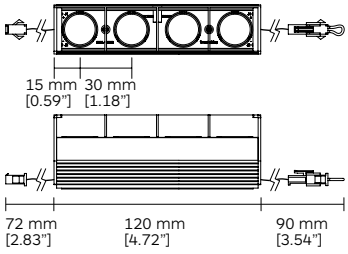
Cobra Linealuce Louvre

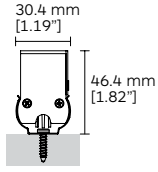
Cobra
Linealuce
Louvre

Min. L= 120mm (4 x LED)

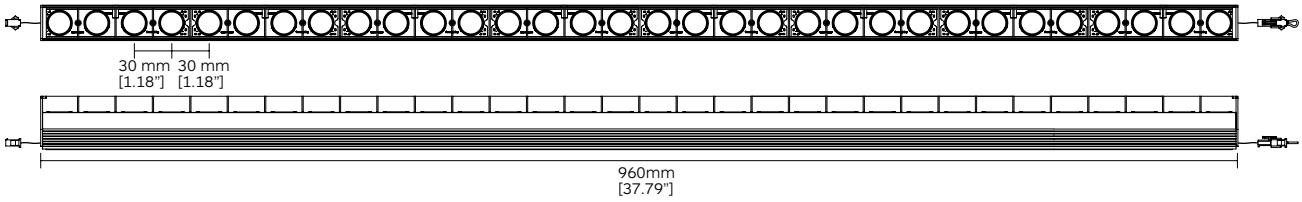


Mounting options

With mounting U clip



Max. L= 960 mm (32 x LED)



Available length codes

No. of LEDs	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
4	6.6V	6.3W	**0120**	120	4.72	732 lm
8	13.2V	12.6W	**0240**	240	9.44	1464 lm
12	19.8V	18.9W	**0360**	360	14.17	2196 lm
16	26.4V	25.2W	**0480**	480	18.89	2928 lm

No. of LEDs	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
20	33V	31.5W	**0600**	600	23.62	3660 lm
24	39.6V	37.8W	**0720**	720	28.34	4392 lm
28	46.2V	44.1W	**0840**	840	33.04	5124 lm
32	52.8V	50.4W	**0960**	960	37.79	5856 lm

Code ordering example: **G 4 5 0 0 1 2 0** - **9 0 2 7 1 0 0 0 1 0**

	Product code*	Length code	Light Source	>CRI	CCT**		LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options		Finish	
Cobra Linealuce Louvre Min & Max. Length	**G450**	**0120**	4 x LED	**90**	**27**	2700K	1.5W/LED	183lm/LED	**10 / 17 / 29 / EL / WW**	**00**	No Driver	**10**	Black
		0960	32 x LED		**30**	3000K							
					35	3500K							
					40	4000K							

Recommended Driver: Driver to be ordered separately. Work with 1050mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C02D0, 2C02D1, 2C02DA. Please see page 86 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, Tuneable White / RGB / RGBW version, please contact us.

EL = Eliptical Beam (15° x 50°). **WW** = Wallwasher optics.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Cobra Flex Louvre

Designed by Ponctuelle

Body

Surface mounted modular system in extruded aluminium.
Available in different length configurations based on a 54mm link (2 LED per link) with a 60mm increment.
Section 31.9x45.4mm.
Its flexible structure maintain a constant 30mm pitch between the LED.

Mounting options:
U mounting clips.
Integrated extruded aluminium louvre.

*** Plastic free packaging.**

Accessories

Mounting accessories included.
Extension cable Art. 2C47 to be ordered separately.

Finish

Anodized black finish.

LED sources

Power LED. CRI: 90 | R9: >50 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 17° / 29° / elliptical (15° x 50°).
Wallwasher optics.

Driver

Driver not included to be ordered separately.
Work with 1050 mA Constant Current Driver positioned remotely.
See page 87 for further information.

Applications

Ideal for indirect cove illumination, it creates a wall grazing effect for columns and curved architectonic surfaces. Its flexible structure maintain a constant pitch between LED, insuring a continuous illumination without any shadows or dark areas. Application areas: Cove light, wallwash, residential, hospitality, restaurants, museums.

Related Products

Cobra Linealuce
P. 50

Cobra Flex
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Cobra Linealuce Louvre
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Cobra Pro IP66
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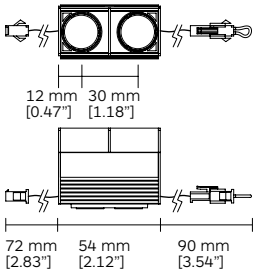
Cobra Flex Louvre

IP20 | CE | cULus

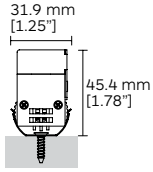
Cobra
Flex Louvre

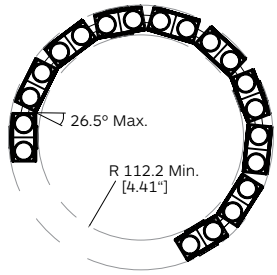
Min. L= 54mm (2 x LED) 1 Link



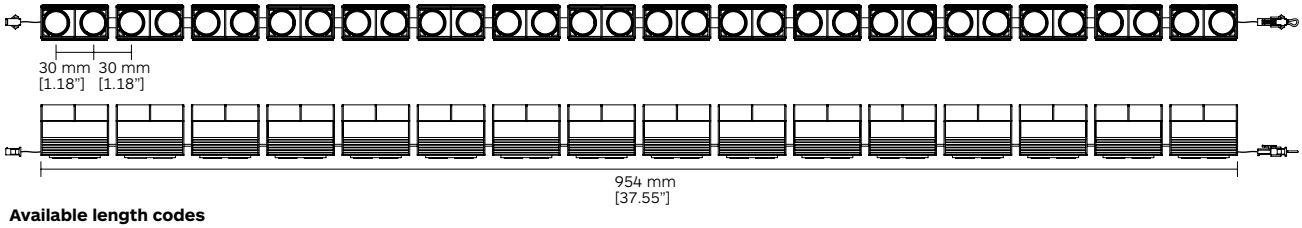
Mounting options

With mounting U clip





Max. L= 954mm (32 x LED) 16 Links



Available length codes

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen	No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	3.3V	3.1W	**0054**	54	2.12	366 lm	9	29.7V	28.3W	**0534**	534	21.02	3294 lm
2	6.6V	6.3W	**0114**	114	4.48	732 lm	10	33V	31.5W	**0594**	594	23.38	3660 lm
3	9.9V	9.4W	**0174**	174	6.85	1098 lm	11	36.3V	34.6W	**0654**	654	25.74	4026 lm
4	13.2V	12.6W	**0234**	234	9.21	1464 lm	12	39.6V	37.8W	**0714**	714	28.11	4392 lm
5	16.5V	15.7W	**0294**	294	11.57	1830 lm	13	42.9V	40.9W	**0774**	774	30.47	4758 lm
6	19.8V	18.9W	**0354**	354	13.93	2196 lm	14	46.2V	44.1W	**0834**	834	32.83	5124 lm
7	23.1V	22W	**0414**	414	16.29	2562 lm	15	49.5V	47.2W	**0894**	894	35.19	5490 lm
8	26.4V	25.2W	**0474**	474	18.66	2928 lm	16	52.8V	50.4W	**0954**	954	37.55	5856 lm

Code ordering example: **G 4 3 7 0 0 5 4 - 9 0 2 7 1 7 0 0 1 0**

	Product code*	Length code	Light Source	>CRI	CCT**		LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options		Finish
Cobra Flex Louvre Min & Max. Length	**G437**	**0054**	2 x LED	**90**	**27**	2700K	1.5W/LED	183lm/LED	**10 / 17 / 29 / EL / WW**	**00**	No Driver	**10** ■ Black
		0954	32 x LED		**30**	3000K						
					35	3500K						
					40	4000K						

Recommended Driver: Driver to be ordered separately. Work with 1050mA Constant Current LED Driver positioned remotely. Suggested Driver: 2C02D0, 2C02D1, 2C02DA. Please see page 87 for further information.

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, Tuneable White / RGB / RGBW version, please contact us.

EL = Eliptical Beam (15° x 50°). **WW** = Wallwasher optics.

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Cobra Pro IP66

Fixed

Body

Surface mounted modular system in die cast aluminium.
Available in different length configurations based on a 83mm link (2 LED per link) with a 76mm increment.
Section 34x36.6mm.
Its flexible structure maintain a constant 38mm pitch between the LED.

Mounting options:
Fixed brackets.

*** Plastic free packaging.**

LED sources

Power LED. CRI: 90 | R9: >50 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 17° / 29° / elliptical (15° x 50°).

Accessories

Mounting accessories included.
Alluminium louvre Art. 2C97
Extension cable Art. 2D47 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 1050 mA Constant Current Driver positioned remotely.
See page 87 for further information.

Finish

Powder coat in black colour.

Applications

Ideal for external indirect cove illumination, it creates a wall grazing effect for columns and curved architectonic surfaces. Its flexible structure maintain a constant pitch between LED, insuring a continuous illumination without any shadows or dark areas. Application areas: Cove light, wallwash, residential, hospitality, restaurants, museums.

Related Products

Cobra Linealuce
P. 50

Cobra Flex
P. 52

Cobra Linealuce Louvre
P. 54

Cobra Flex Louvre
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Cobra Pro IP66 Adjustable
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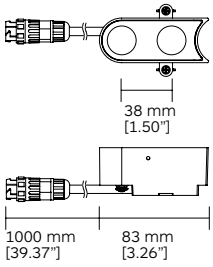
Cobra Pro IP66 Fixed

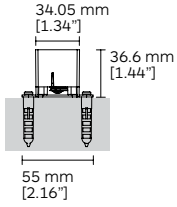
Cobra Pro IP66
Fixed

Min. L= 83mm (2 x LED) 1 Link

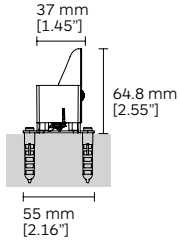


Mounting options

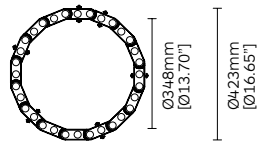
With fixed brackets



With Louvre Art. 2C97



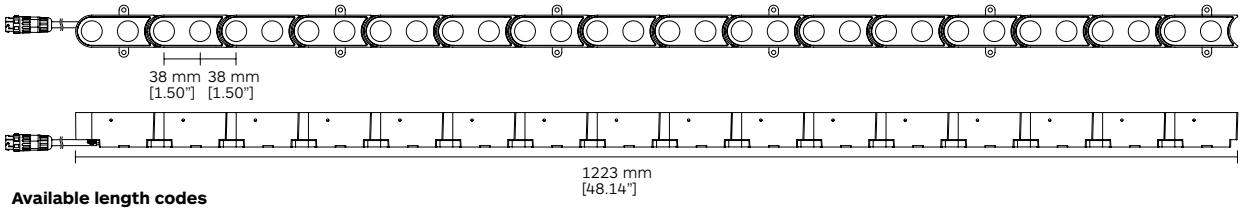
16 Links



8Links

Max. L= 1223mm (32 x LED) 16 Links

16 Links



Available length codes

No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen	No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	3.1W	**0083**	83	3.26	366 lm	9	28.3W	**0691**	691	27.20	3294 lm
2	6.3W	**0159**	159	6.25	732 lm	10	31.5W	**0767**	767	30.19	3660 lm
3	9.4W	**0235**	235	9.25	1098 lm	11	34.6W	**0843**	843	33.18	4026 lm
4	12.6W	**0311**	311	12.24	1464 lm	12	37.8W	**0919**	919	36.18	4392 lm
5	15.7W	**0387**	387	15.23	1830 lm	13	40.9W	**0995**	995	39.17	4758 lm
6	18.9W	**0463**	463	18.22	2196 lm	14	44.1W	**1071**	1071	42.16	5124 lm
7	22W	**0539**	539	21.22	2562 lm	15	47.2W	**1147**	1147	45.15	5490 lm
8	25.2W	**0615**	615	24.21	2928 lm	16	50.4W	**1223**	1223	48.14	5856 lm

Code ordering example: **G 3 0 1 0 0 8 3** - 9 0 2 7 1 7 D 0 1 0

	Product code*	Length code	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options		Finish
Cobra Pro IP66 Fixed	**G301**	**0083**	2 x LED	**90**	**27** 2700K	1.5W/LED	183lm/LED	**17 / 29 / EL**	**D0**	No Dimming	**10** ■ Black
		1223	32 x LED		**30** 3000K				**D1**	0-10V Dim	
Min & Max. Length					**35** 3500K				**DA**	Dali Dim	
					40 4000K						

Recommended Driver: Driver included

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

EL = Eliptical Beam (15° x 50°).

For related accessories, please see page 87.

For the most updated product information, please go to our website.

Cobra Pro IP66

Adjustable

Body

Surface mounted modular system in die cast aluminium.
Available in different length configurations based on a 83mm link (2 LED per link) with a 76mm increment. Section 31.9x32.6mm.
Its flexible structure maintain a constant 38mm pitch between the LED.

Mounting options:
Adjustable brackets (45° in two directions).

*** Plastic free packaging.**

LED sources

Power LED. CRI: 90 | R9: >50 | CCT: 2700K, 3000K, 3500K, 4000K.
3-Step MacAdam.
Other CRI and CCT options available on request.

Optic

Lens.
Beam angle: 17° / 29° / elliptical (15° x 50°).

Accessories

Mounting accessories included.
Alluminium louvre Art. 2C97
Extension cable Art. 2D47 to be ordered separately.

Driver

Driver not included to be ordered separately.
Work with 1050 mA Constant Current Driver positioned remotely.
See page 87 for further information.

Finish

Powder coat in black colour.

Applications

Ideal for external indirect cove illumination, it creates a wall grazing effect for columns and curved architectonic surfaces. Its flexible structure maintain a constant pitch between LED, insuring a continuous illumination without any shadows or dark areas. Application areas: Cove light, wallwash, residential, hospitality, restaurants, museums.

Related Products

Cobra Linealuce
P. 50

Cobra Flex
P. 52

Cobra Linealuce Louvre
P. 54

Cobra Flex Louvre
P. 56

Cobra Pro IP66 Fixed
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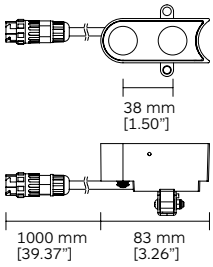
Cobra Pro IP66 Adjustable

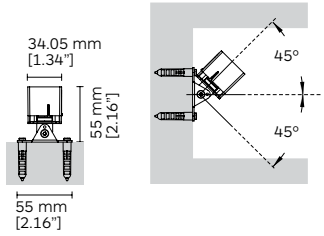
Cobra Pro IP66
Adjustable

Min. L= 83mm (2 x LED) 1 Link

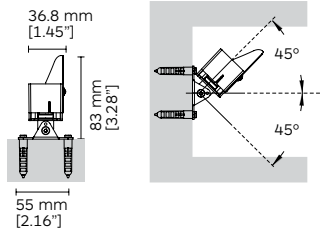


Mounting options

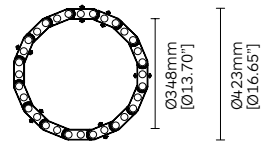
With adjustable brackets



With Louvre Art. 2C97



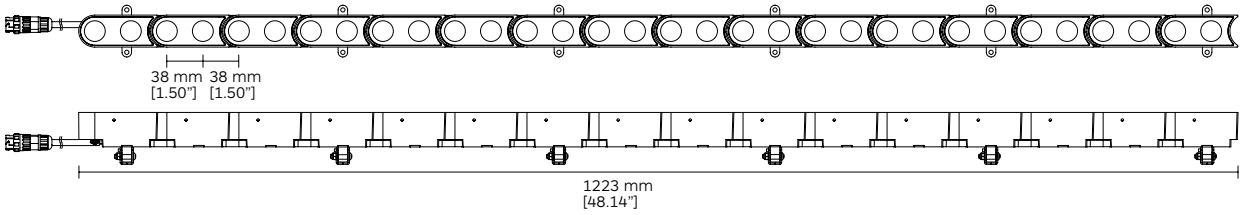
16 Links



8 Links

Max. L= 1223mm (32 x LED) 16 Links

16 Links



Available length codes

No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen	No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	3.1W	**0083**	83	3.26	366 lm	9	28.3W	**0691**	691	27.20	3294 lm
2	6.3W	**0159**	159	6.25	732 lm	10	31.5W	**0767**	767	30.19	3660 lm
3	9.4W	**0235**	235	9.25	1098 lm	11	34.6W	**0843**	843	33.18	4026 lm
4	12.6W	**0311**	311	12.24	1464 lm	12	37.8W	**0919**	919	36.18	4392 lm
5	15.7W	**0387**	387	15.23	1830 lm	13	40.9W	**0995**	995	39.17	4758 lm
6	18.9W	**0463**	463	18.22	2196 lm	14	44.1W	**1071**	1071	42.16	5124 lm
7	22W	**0539**	539	21.22	2562 lm	15	47.2W	**1147**	1147	45.15	5490 lm
8	25.2W	**0615**	615	24.21	2928 lm	16	50.4W	**1223**	1223	48.14	5856 lm

Code ordering example: **G 3 0 2 0 0 8 3** - **9 0 2 7 1 7 D 0 1 0**

	Product code*	Length code	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options		Finish
Cobra Pro IP66 Adjustable	**G302**	**0083**	2 x LED	**90**	**27** 2700K	1.5W/LED	183lm/LED	**17 / 29 / EL**	**D0**	No Dimming	**10** ■ Black
		1223	32 x LED		**30** 3000K				**D1**	0-10V Dim	
Min & Max. Length					**35** 3500K				**DA**	Dali Dim	
					40 4000K						

Recommended Driver: Driver included

Notes:

* For complete code ordering information, please see page 91.

** For other CCT options, please contact us.

EL = Eliptical Beam (15° x 50°).

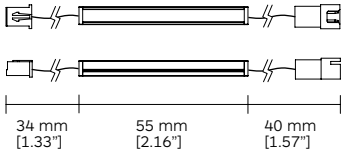
For related accessories, please see page 87.

For the most updated product information, please go to our website.

Complete Length Codes List

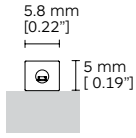
Microline 5 x 5 | 16W/m | G466

Min. L= 55mm (2.16")



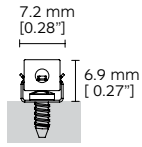
Section Size

Without U clip



Mounting options

With mounting U clip



Max. L= 1990mm (78.34")

Increment: 45mm (1.77")

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.72W	**0055**	55	2.16	78 lm
1.44W	**0100**	100	3.93	142 lm
2.16W	**0145**	145	5.70	206 lm
2.88W	**0190**	190	7.48	270 lm
3.60W	**0235**	235	9.25	334 lm
4.32W	**0280**	280	11.02	398 lm
5.04W	**0325**	325	12.79	461 lm
5.76W	**0370**	370	14.56	525 lm
6.48W	**0415**	415	16.33	589 lm
7.20W	**0460**	460	18.11	653 lm
7.92W	**0505**	505	19.88	717 lm
8.64W	**0550**	550	21.65	781 lm
9.36W	**0595**	595	23.42	845 lm
10.08W	**0640**	640	25.19	909 lm
10.80W	**0685**	685	26.96	973 lm
11.52W	**0730**	730	28.74	1037 lm
12.24W	**0775**	775	30.51	1100 lm
12.96W	**0820**	820	32.28	1164 lm
13.68W	**0865**	865	34.05	1228 lm
14.40W	**0910**	910	35.82	1292 lm
15.12W	**0955**	955	37.59	1356 lm
15.84W	**1000**	1000	39.37	1420 lm
16.56W	**1045**	1045	41.14	1484 lm
17.28W	**1090**	1090	42.91	1548 lm
18.00W	**1135**	1135	44.68	1612 lm
18.72W	**1180**	1180	46.45	1676 lm
19.44W	**1225**	1225	48.22	1739 lm
20.16W	**1270**	1270	50.00	1803 lm
20.88W	**1315**	1315	51.77	1867 lm
21.60W	**1360**	1360	53.54	1931 lm
22.32W	**1405**	1405	55.31	1995 lm
23.04W	**1450**	1450	57.08	2059 lm
23.76W	**1495**	1495	58.85	2123 lm
24.48W	**1540**	1540	60.62	2187 lm
25.20W	**1585**	1585	62.40	2251 lm
25.92W	**1630**	1630	64.17	2315 lm
26.64W	**1675**	1675	65.94	2378 lm
27.36W	**1720**	1720	67.71	2442 lm
28.08W	**1765**	1765	69.48	2506 lm
28.80W	**1810**	1810	71.25	2570 lm
29.52W	**1855**	1855	73.03	2634 lm
30.24W	**1900**	1900	74.80	2698 lm
30.96W	**1945**	1945	76.57	2762 lm
31.68W	**1990**	1990	78.34	2826 lm

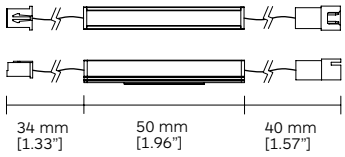
Notes:

* For driver information, please see page 82.

Complete Length Codes List

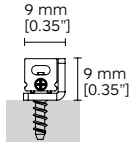
Microline 7 x 7 | 19W/m | G447

Min. L= 50mm (1.97")

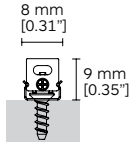


Mounting options

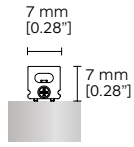
With magnet L bracket



With mounting U clip



With magnet



Max. L= 2030mm (79.92")

Increment: 45mm (1.77")

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.86W	**0050**	50	1.97	85 lm
1.71W	**0095**	95	3.74	161 lm
2.57W	**0140**	140	5.51	237 lm
3.42W	**0185**	185	7.28	313 lm
4.28W	**0230**	230	9.06	390 lm
5.13W	**0275**	275	10.83	466 lm
5.99W	**0320**	320	12.60	542 lm
6.84W	**0365**	365	14.37	618 lm
7.70W	**0410**	410	16.14	694 lm
8.55W	**0455**	455	17.91	771 lm
9.41W	**0500**	500	19.69	847 lm
10.26W	**0545**	545	21.46	923 lm
11.12W	**0590**	590	23.23	999 lm
11.97W	**0635**	635	25.00	1076 lm
12.93W	**0680**	680	26.77	1152 lm
13.68W	**0725**	725	28.54	1228 lm
14.54W	**0770**	770	30.31	1304 lm
15.39W	**0815**	815	32.09	1381 lm
16.25W	**0860**	860	33.86	1457 lm
17.10W	**0905**	905	35.63	1533 lm
17.96W	**0950**	950	37.40	1609 lm
18.81W	**0995**	995	39.17	1685 lm
19.67W	**1040**	1040	40.94	1762 lm
20.52W	**1085**	1085	42.72	1838 lm
21.38W	**1130**	1130	44.49	1914 lm
22.23W	**1175**	1175	46.26	1990 lm
23.09W	**1220**	1220	48.03	2067 lm
23.94W	**1265**	1265	49.80	2143 lm
24.80W	**1310**	1310	51.57	2219 lm
25.65W	**1355**	1355	53.35	2295 lm
26.51W	**1400**	1400	55.12	2372 lm
27.36W	**1445**	1445	56.89	2448 lm
28.22W	**1490**	1490	58.66	2524 lm
29.07W	**1535**	1535	60.43	2600 lm
29.93W	**1580**	1580	62.20	2676 lm
30.78W	**1625**	1625	63.98	2753 lm
31.64W	**1670**	1670	65.75	2829 lm
32.49W	**1715**	1715	67.52	2905 lm
33.35W	**1760**	1760	69.29	2981 lm
34.20W	**1805**	1805	71.06	3058 lm
35.06W	**1850**	1850	72.83	3134 lm
35.91W	**1895**	1895	74.61	3210 lm
36.77W	**1940**	1940	76.38	3286 lm
37.62W	**1985**	1985	78.15	3362 lm
38.48W	**2030**	2030	79.92	3439 lm

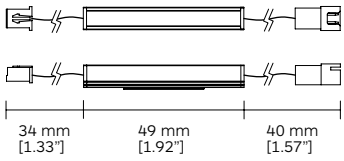
Notes:

* For driver information, please see page 82.

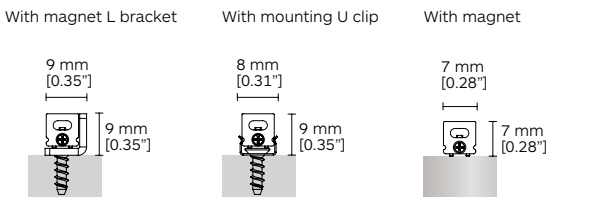
Complete Length Codes List

Microline 7 x 7 Chain | 0.86W/Link | G442

Min. L= 49mm (1.93”), 1 Link



Mounting options



Max. L= 2645mm (104.13”), 45 Links

Increment: 59mm (2.32”), 1 Link

Available length codes

No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	0.86W	**0049**	49	1.93	77 lm
2	1.71W	**0108**	108	4.25	154 lm
3	2.57W	**0167**	167	6.57	231 lm
4	3.42W	**0226**	226	8.90	308 lm
5	4.28W	**0285**	285	11.22	385 lm
6	5.13W	**0344**	344	13.54	462 lm
7	5.99W	**0403**	403	15.87	539 lm
8	6.84W	**0462**	462	18.19	616 lm
9	7.70W	**0521**	521	20.51	693 lm
10	8.55W	**0580**	580	22.83	770 lm
11	9.41W	**0639**	639	25.16	847 lm
12	10.26W	**0698**	698	27.48	924 lm
13	11.12W	**0757**	757	29.80	1001 lm
14	11.97W	**0816**	816	32.13	1078 lm
15	12.83W	**0875**	875	34.45	1155 lm
16	13.68W	**0934**	934	36.77	1232 lm
17	14.54W	**0993**	993	39.09	1309 lm
18	15.39W	**1052**	1052	41.42	1386 lm
19	16.25W	**1111**	1111	43.74	1463 lm
20	17.10W	**1170**	1170	46.06	1540 lm
21	17.96W	**1229**	1229	48.39	1617 lm
22	18.81W	**1288**	1288	50.71	1694 lm
23	19.67W	**1347**	1347	53.03	1771 lm
24	20.52W	**1406**	1406	55.35	1848 lm
25	21.38W	**1465**	1465	57.68	1925 lm
26	22.23W	**1524**	1524	60.00	2002 lm
27	23.09W	**1583**	1583	62.32	2079 lm
28	23.94W	**1642**	1642	64.65	2156 lm
29	24.80W	**1701**	1701	66.97	2233 lm
30	25.65W	**1760**	1760	69.29	2310 lm
31	26.51W	**1819**	1819	71.61	2387 lm
32	27.36W	**1878**	1878	73.94	2464 lm
33	28.22W	**1937**	1937	76.26	2541 lm
34	29.07W	**1996**	1996	78.58	2618 lm
35	29.93W	**2055**	2055	80.91	2695 lm
36	30.78W	**2114**	2114	83.23	2772 lm
37	31.64W	**2173**	2173	85.55	2849 lm
38	32.49W	**2232**	2232	87.87	2926 lm
39	33.35W	**2291**	2291	90.20	3003 lm
40	34.20W	**2350**	2350	92.52	3080 lm
41	35.06W	**2409**	2409	94.84	3157 lm
42	35.91W	**2468**	2468	97.17	3234 lm
43	36.77W	**2527**	2527	99.49	3311 lm
44	37.62W	**2586**	2586	101.81	3388 lm
45	38.48W	**2645**	2645	104.13	3465 lm

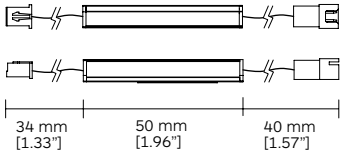
Notes:

* For driver information, please see page 82.

Complete Length Codes List

Microline 7 x 7 Corner | 19W/m | G446

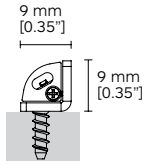
Min. L= 50mm (1.97")



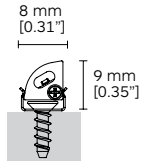
Max. L= 2030mm (79.92")

Mounting options

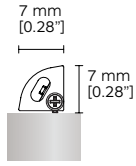
With magnet L bracket



With mounting U clip



With magnet



Increment: 45mm (1.77")

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.86W	**0050**	50	1.97	85 lm
1.71W	**0095**	95	3.74	161 lm
2.57W	**0140**	140	5.51	237 lm
3.42W	**0185**	185	7.28	313 lm
4.28W	**0230**	230	9.06	390 lm
5.13W	**0275**	275	10.83	466 lm
5.99W	**0320**	320	12.60	542 lm
6.84W	**0365**	365	14.37	618 lm
7.70W	**0410**	410	16.14	694 lm
8.55W	**0455**	455	17.91	771 lm
9.41W	**0500**	500	19.69	847 lm
10.26W	**0545**	545	21.46	923 lm
11.12W	**0590**	590	23.23	999 lm
11.97W	**0635**	635	25.00	1076 lm
12.93W	**0680**	680	26.77	1152 lm
13.68W	**0725**	725	28.54	1228 lm
14.54W	**0770**	770	30.31	1304 lm
15.39W	**0815**	815	32.09	1381 lm
16.25W	**0860**	860	33.86	1457 lm
17.10W	**0905**	905	35.63	1533 lm
17.96W	**0950**	950	37.40	1609 lm
18.81W	**0995**	995	39.17	1685 lm
19.67W	**1040**	1040	40.94	1762 lm
20.52W	**1085**	1085	42.72	1838 lm
21.38W	**1130**	1130	44.49	1914 lm
22.23W	**1175**	1175	46.26	1990 lm
23.09W	**1220**	1220	48.03	2067 lm
23.94W	**1265**	1265	49.80	2143 lm
24.80W	**1310**	1310	51.57	2219 lm
25.65W	**1355**	1355	53.35	2295 lm
26.51W	**1400**	1400	55.12	2372 lm
27.36W	**1445**	1445	56.89	2448 lm
28.22W	**1490**	1490	58.66	2524 lm
29.07W	**1535**	1535	60.43	2600 lm
29.93W	**1580**	1580	62.20	2676 lm
30.78W	**1625**	1625	63.98	2753 lm
31.64W	**1670**	1670	65.75	2829 lm
32.49W	**1715**	1715	67.52	2905 lm
33.35W	**1760**	1760	69.29	2981 lm
34.20W	**1805**	1805	71.06	3058 lm
35.06W	**1850**	1850	72.83	3134 lm
35.91W	**1895**	1895	74.61	3210 lm
36.77W	**1940**	1940	76.38	3286 lm
37.62W	**1985**	1985	78.15	3363 lm
38.48W	**2030**	2030	79.92	3439 lm

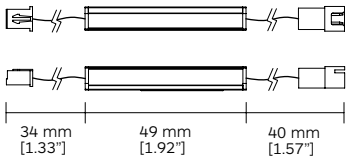
Notes:

* For driver information, please see page 82.

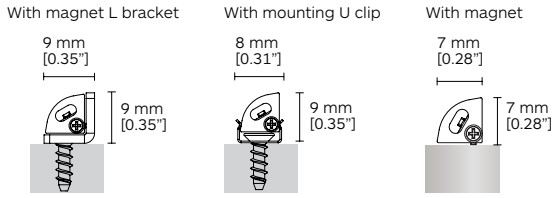
Complete Length Codes List

Microline 7 x 7 Corner Chain | 0.86W/Link | G431

Min. L= 49mm (1.93”), 1 Link



Mounting options



Max. L= 2645mm (104.13”), 45 Links

Increment: 59mm (2.32”), 1 Link

Available length codes

No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	0.86W	**0049**	49	1.93	77 lm
2	1.71W	**0108**	108	4.25	154 lm
3	2.57W	**0167**	167	6.57	231 lm
4	3.42W	**0226**	226	8.90	308 lm
5	4.28W	**0285**	285	11.22	385 lm
6	5.13W	**0344**	344	13.54	462 lm
7	5.99W	**0403**	403	15.87	539 lm
8	6.84W	**0462**	462	18.19	616 lm
9	7.70W	**0521**	521	20.51	693 lm
10	8.55W	**0580**	580	22.83	770 lm
11	9.41W	**0639**	639	25.16	847 lm
12	10.26W	**0698**	698	27.48	924 lm
13	11.12W	**0757**	757	29.80	1001 lm
14	11.97W	**0816**	816	32.13	1078 lm
15	12.83W	**0875**	875	34.45	1155 lm
16	13.68W	**0934**	934	36.77	1232 lm
17	14.54W	**0993**	993	39.09	1309 lm
18	15.39W	**1052**	1052	41.42	1386 lm
19	16.25W	**1111**	1111	43.74	1463 lm
20	17.10W	**1170**	1170	46.06	1540 lm
21	17.96W	**1229**	1229	48.39	1617 lm
22	18.81W	**1288**	1288	50.71	1694 lm
23	19.67W	**1347**	1347	53.03	1771 lm
24	20.52W	**1406**	1406	55.35	1848 lm
25	21.38W	**1465**	1465	57.68	1925 lm
26	22.23W	**1524**	1524	60.00	2002 lm
27	23.09W	**1583**	1583	62.32	2079 lm
28	23.94W	**1642**	1642	64.65	2156 lm
29	24.80W	**1701**	1701	66.97	2233 lm
30	25.65W	**1760**	1760	69.29	2310 lm
31	26.51W	**1819**	1819	71.61	2387 lm
32	27.36W	**1878**	1878	73.94	2464 lm
33	28.22W	**1937**	1937	76.26	2541 lm
34	29.07W	**1996**	1996	78.58	2618 lm
35	29.93W	**2055**	2055	80.91	2695 lm
36	30.78W	**2114**	2114	83.23	2772 lm
37	31.64W	**2173**	2173	85.55	2849 lm
38	32.49W	**2232**	2232	87.87	2926 lm
39	33.35W	**2291**	2291	90.20	3003 lm
40	34.20W	**2350**	2350	92.52	3080 lm
41	35.06W	**2409**	2409	94.84	3157 lm
42	35.91W	**2468**	2468	97.17	3234 lm
43	36.77W	**2527**	2527	99.49	3311 lm
44	37.62W	**2586**	2586	101.81	3388 lm
45	38.48W	**2645**	2645	104.13	3465 lm

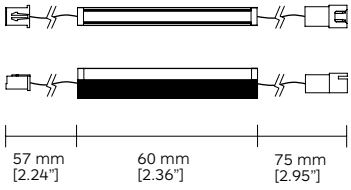
Notes:

* For driver information, please see page 82.

Complete Length Codes List

Microline 10 x 6 | 16W/m | G460

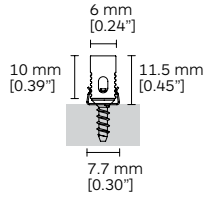
Min. L= 60mm (2.36")



Max. L= 1995mm (78.54")

Mounting options

With mounting U clip



Increment: 45mm (1.77")

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.72W	**0060**	60	2.36	85 lm
1.44W	**0105**	105	4.13	149 lm
2.16W	**0150**	150	5.90	213 lm
2.88W	**0195**	195	7.67	277 lm
3.60W	**0240**	240	9.44	341 lm
4.32W	**0285**	285	11.22	405 lm
5.04W	**0330**	330	12.99	469 lm
5.76W	**0375**	375	14.76	532 lm
6.48W	**0420**	420	16.53	596 lm
7.20W	**0465**	465	18.30	660 lm
7.92W	**0510**	510	20.07	724 lm
8.64W	**0555**	555	21.85	788 lm
9.36W	**0600**	600	23.62	852 lm
10.08W	**0645**	645	25.39	916 lm
10.80W	**0690**	690	27.16	980 lm
11.52W	**0735**	735	28.93	1044 lm
12.24W	**0780**	780	30.70	1108 lm
12.96W	**0825**	825	32.48	1171 lm
13.68W	**0870**	870	34.25	1235 lm
14.40W	**0915**	915	36.02	1299 lm
15.12W	**0960**	960	37.79	1363 lm
15.84W	**1005**	1005	39.56	1427 lm
16.56W	**1050**	1050	41.33	1491 lm
17.28W	**1095**	1095	43.11	1555 lm
18.00W	**1140**	1140	44.88	1619 lm
18.72W	**1185**	1185	46.65	1683 lm
19.44W	**1230**	1230	48.42	1747 lm
20.16W	**1275**	1275	50.19	1810 lm
20.88W	**1320**	1320	51.96	1874 lm
21.60W	**1365**	1365	53.74	1938lm
22.32W	**1410**	1410	55.51	2002 lm
23.04W	**1455**	1455	57.28	2066 lm
23.76W	**1500**	1500	59.05	2130 lm
24.48W	**1545**	1545	60.82	2194 lm
25.20W	**1590**	1590	62.59	2258 lm
25.92W	**1635**	1635	64.37	2322 lm
26.64W	**1680**	1680	66.14	2386 lm
27.36W	**1725**	1725	67.91	2449 lm
28.08W	**1770**	1770	69.68	2513 lm
28.80W	**1815**	1815	71.45	2577 lm
29.52W	**1860**	1860	73.22	2641 lm
30.24W	**1905**	1905	75.00	2705 lm
30.96W	**1950**	1950	76.77	2769 lm
31.68W	**1995**	1995	78.54	2833 lm

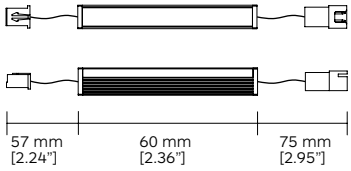
Notes:

* For driver information, please see page 83.

Complete Length Codes List

Microline 9 x 8 | 16W/m | G461

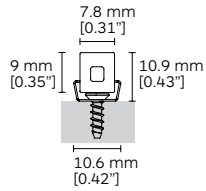
Min. L= 60mm (2.36”)



Max. L= 1995mm (78.54”)

Mounting options

With mounting U clip



Increment: 45mm (1.77”)

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.72W	**0060**	60	2.36	85 lm
1.44W	**0105**	105	4.13	149 lm
2.16W	**0150**	150	5.90	213 lm
2.88W	**0195**	195	7.67	277 lm
3.60W	**0240**	240	9.44	341 lm
4.32W	**0285**	285	11.22	405 lm
5.04W	**0330**	330	12.99	469 lm
5.76W	**0375**	375	14.76	532 lm
6.48W	**0420**	420	16.53	596 lm
7.20W	**0465**	465	18.30	660 lm
7.92W	**0510**	510	20.07	724 lm
8.64W	**0555**	555	21.85	788 lm
9.36W	**0600**	600	23.62	852 lm
10.08W	**0645**	645	25.39	916 lm
10.80W	**0690**	690	27.16	980 lm
11.52W	**0735**	735	28.93	1044 lm
12.24W	**0780**	780	30.70	1108 lm
12.96W	**0825**	825	32.48	1171 lm
13.68W	**0870**	870	34.25	1235 lm
14.40W	**0915**	915	36.02	1299 lm
15.12W	**0960**	960	37.79	1363 lm
15.84W	**1005**	1005	39.56	1427 lm
16.56W	**1050**	1050	41.33	1491 lm
17.28W	**1095**	1095	43.11	1555 lm
18.00W	**1140**	1140	44.88	1619 lm
18.72W	**1185**	1185	46.65	1683 lm
19.44W	**1230**	1230	48.42	1747 lm
20.16W	**1275**	1275	50.19	1810 lm
20.88W	**1320**	1320	51.96	1874 lm
21.60W	**1365**	1365	53.74	1938 lm
22.32W	**1410**	1410	55.51	2002 lm
23.04W	**1455**	1455	57.28	2066 lm
23.76W	**1500**	1500	59.05	2130 lm
24.48W	**1545**	1545	60.82	2194 lm
25.20W	**1590**	1590	62.59	2258 lm
25.92W	**1635**	1635	64.37	2322 lm
26.64W	**1680**	1680	66.14	2386 lm
27.36W	**1725**	1725	67.91	2449 lm
28.08W	**1770**	1770	69.68	2513 lm
28.80W	**1815**	1815	71.45	2577 lm
29.52W	**1860**	1860	73.22	2641 lm
30.24W	**1905**	1905	75.00	2705 lm
30.96W	**1950**	1950	76.77	2769 lm
31.68W	**1995**	1995	78.54	2833 lm

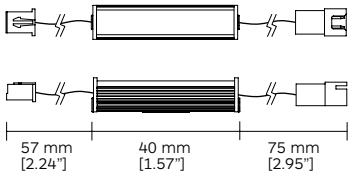
Notes:

* For driver information, please see page 83.

Complete Length Codes List

Microline Ø9 | 19W/m | G421

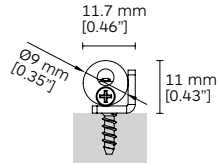
Min. L= 40mm (1.57")



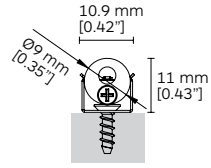
Max. L= 2105mm (82.87")

Mounting options

With magnet L bracket



With mounting U clip



Increment: 35mm (1.37")

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.60W	**0040**	40	1.57	68 lm
1.19W	**0075**	75	2.95	127 lm
1.79W	**0110**	110	4.33	186 lm
2.38W	**0145**	145	5.70	246 lm
2.98W	**0180**	180	7.08	305 lm
3.57W	**0215**	215	8.46	364 lm
4.17W	**0250**	250	9.84	423 lm
4.76W	**0285**	285	11.22	483 lm
5.36W	**0320**	320	12.59	542 lm
5.95W	**0355**	355	13.97	601 lm
6.55W	**0390**	390	15.35	661 lm
7.14W	**0425**	425	16.73	720 lm
7.74W	**0460**	460	18.11	779 lm
8.33W	**0495**	495	19.48	838 lm
8.93W	**0530**	530	20.86	898 lm
9.52W	**0565**	565	22.24	957 lm
10.12W	**0600**	600	23.62	1016 lm
10.71W	**0635**	635	25.00	1076 lm
11.31W	**0670**	670	26.37	1135 lm
11.90W	**0705**	705	27.75	1195 lm
12.50W	**0740**	740	29.13	1253 lm
13.09W	**0775**	775	30.51	1313 lm
13.69W	**0810**	810	31.88	1372 lm
14.28W	**0845**	845	33.26	1431 lm
14.88W	**0880**	880	34.64	1491 lm
15.47W	**0915**	915	36.02	1550 lm
16.07W	**0950**	950	37.40	1609 lm
16.66W	**0985**	985	38.77	1668 lm
17.26W	**1020**	1020	40.15	1728 lm
17.85W	**1055**	1055	41.53	1787 lm
18.45W	**1090**	1090	42.91	1846 lm
19.04W	**1125**	1125	44.29	1906 lm
19.64W	**1160**	1160	45.66	1965 lm
20.23W	**1195**	1195	47.04	2024 lm
20.83W	**1230**	1230	48.42	2084 lm
21.42W	**1265**	1265	49.80	2143 lm
22.02W	**1300**	1300	51.18	2202 lm
22.61W	**1335**	1335	52.55	2261 lm
23.21W	**1370**	1370	53.93	2321 lm
23.80W	**1405**	1405	55.31	2380 lm
24.40W	**1440**	1440	56.69	2439lm
24.99W	**1475**	1475	58.07	2499 lm
25.59W	**1510**	1510	59.44	2558 lm
26.18W	**1545**	1545	60.82	2617 lm
26.78W	**1580**	1580	62.20	2676 lm
27.37W	**1615**	1615	63.58	2736 lm
27.97W	**1650**	1650	64.96	2795 lm
28.56W	**1685**	1685	66.33	2854 lm
29.16W	**1720**	1720	67.71	2914 lm
29.75W	**1755**	1755	69.09	2973 lm
30.35W	**1790**	1790	70.47	3032 lm
30.94W	**1825**	1825	71.85	3091 lm
31.54W	**1860**	1860	73.22	3151 lm
32.13W	**1895**	1895	74.60	3210 lm
32.73W	**1930**	1930	75.98	3269 lm
33.32W	**1965**	1965	77.36	3329 lm
33.92W	**2000**	2000	78.74	3388 lm
34.51W	**2035**	2035	80.11	3447 lm
35.11W	**2070**	2070	81.49	3506 lm
35.70W	**2105**	2105	82.87	3566 lm

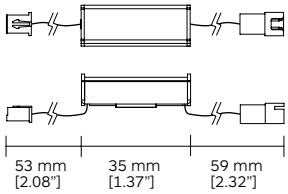
Notes:

* For driver information, please see page 83.

Complete Length Codes List

Microline Ø14 | 16W/m | G445

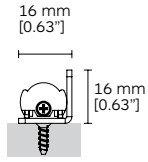
Min. L= 35mm (1.37")



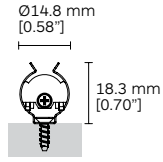
Max. L= 2105mm (82.87")

Mounting options

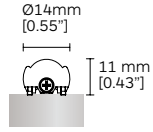
With magnet L bracket



With mounting U clip



With magnet



Increment: 30mm (1.18")

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.48W	**0035**	35	1.37	45 lm
0.96W	**0065**	65	2.56	84 lm
1.44W	**0095**	95	3.74	122 lm
1.92W	**0125**	125	4.92	161 lm
2.40W	**0155**	155	6.10	199 lm
2.88W	**0185**	185	7.28	238 lm
3.36W	**0215**	215	8.46	277 lm
3.84W	**0245**	245	9.65	315 lm
4.32W	**0275**	275	10.83	354 lm
4.80W	**0305**	305	12.01	393 lm
5.28W	**0335**	335	13.19	431 lm
5.76W	**0365**	365	14.37	470 lm
6.24W	**0395**	395	15.55	508 lm
6.72W	**0425**	425	16.73	547 lm
7.20W	**0455**	455	17.91	586 lm
7.68W	**0485**	485	19.09	624 lm
8.16W	**0515**	515	20.28	663 lm
8.64W	**0545**	545	21.46	701 lm
9.12W	**0575**	575	22.64	740 lm
9.60W	**0605**	605	23.82	779 lm
10.08W	**0635**	635	25.00	817 lm
10.56W	**0665**	665	26.18	856 lm
11.04W	**0695**	695	27.36	894 lm
11.52W	**0725**	725	28.54	933 lm
12.00W	**0755**	755	29.72	972 lm
12.48W	**0785**	785	30.91	1010 lm
12.96W	**0815**	815	32.09	1049 lm
13.44W	**0845**	845	33.27	1088 lm
13.92W	**0875**	875	34.45	1126 lm
14.40W	**0905**	905	35.63	1165 lm
14.88W	**0935**	935	36.81	1203 lm
15.36W	**0965**	965	37.99	1242 lm
15.84W	**0995**	995	39.17	1281 lm
16.32W	**1025**	1025	40.35	1319 lm
16.80W	**1055**	1055	41.54	1358 lm
17.28W	**1085**	1085	42.72	1396 lm
17.76W	**1115**	1115	43.90	1435 lm
18.24W	**1145**	1145	45.08	1474 lm
18.72W	**1175**	1175	46.26	1512 lm
19.20W	**1205**	1205	47.44	1551 lm
19.68W	**1235**	1235	48.62	1589 lm
20.16W	**1265**	1265	49.80	1628 lm
20.64W	**1295**	1295	50.98	1667 lm
21.12W	**1325**	1325	52.17	1705 lm
21.60W	**1355**	1355	53.35	1744 lm
22.08W	**1385**	1385	54.53	1782 lm
22.56W	**1415**	1415	55.71	1821 lm
23.04W	**1445**	1445	56.89	1860 lm
23.52W	**1475**	1475	58.07	1898 lm
24.00W	**1505**	1505	59.25	1937 lm
24.48W	**1535**	1535	60.43	1976 lm
24.96W	**1565**	1565	61.61	2014 lm
25.44W	**1595**	1595	62.80	2053 lm
25.92W	**1625**	1625	63.98	2091 lm
26.40W	**1655**	1655	65.16	2130 lm
26.88W	**1685**	1685	66.34	2169 lm
27.36W	**1715**	1715	67.52	2207 lm
27.84W	**1745**	1745	68.70	2246 lm
28.32W	**1775**	1775	69.88	2284 lm
28.80W	**1805**	1805	71.06	2323 lm
29.28W	**1835**	1835	72.24	2362 lm
29.76W	**1865**	1865	73.43	2400 lm
30.24W	**1895**	1895	74.61	2439 lm
30.72W	**1925**	1925	75.79	2477 lm
31.20W	**1955**	1955	76.97	2516 lm
31.68W	**1985**	1985	78.15	2555 lm
32.16W	**2015**	2015	79.33	2593 lm
32.64W	**2045**	2045	80.51	2632 lm
33.12W	**2075**	2075	81.69	2671 lm
33.60W	**2105**	2105	82.87	2709 lm

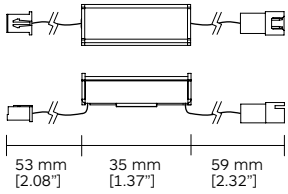
Notes:

* For driver information, please see page 83.

Complete Length Codes List

Microline Ø14 | 20W/m | G420

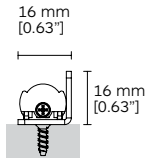
Min. L= 35mm (1.37")



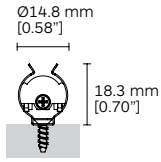
Max. L= 2105mm (82.87")

Mounting options

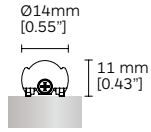
With magnet L bracket



With mounting U clip



With magnet



Increment: 30mm (1.18")

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.60W	**0035**	35	1.37	63 lm
1.20W	**0065**	65	2.56	118 lm
1.80W	**0095**	95	3.74	172 lm
2.40W	**0125**	125	4.92	227 lm
3.00W	**0155**	155	6.10	281 lm
3.60W	**0185**	185	7.28	336 lm
4.20W	**0215**	215	8.46	390 lm
4.80W	**0245**	245	9.65	445 lm
5.40W	**0275**	275	10.83	499 lm
6.00W	**0305**	305	12.01	553 lm
6.60W	**0335**	335	13.19	608 lm
7.20W	**0365**	365	14.37	662 lm
7.80W	**0395**	395	15.55	717 lm
8.40W	**0425**	425	16.73	771 lm
9.00W	**0455**	455	17.91	826 lm
9.60W	**0485**	485	19.09	880 lm
10.20W	**0515**	515	20.28	935 lm
10.80W	**0545**	545	21.46	989 lm
11.40W	**0575**	575	22.64	1044 lm
12.00W	**0605**	605	23.82	1098 lm
12.60W	**0635**	635	25.00	1152 lm
13.20W	**0665**	665	26.18	1207 lm
13.80W	**0695**	695	27.36	1261 lm
14.40W	**0725**	725	28.54	1316 lm
15.00W	**0755**	755	29.72	1370 lm
15.60W	**0785**	785	30.91	1425 lm
16.20W	**0815**	815	32.09	1479 lm
16.80W	**0845**	845	33.27	1534 lm
17.40W	**0875**	875	34.45	1588 lm
18.00W	**0905**	905	35.63	1642 lm
18.60W	**0935**	935	36.81	1697 lm
19.20W	**0965**	965	37.99	1751 lm
19.80W	**0995**	995	39.17	1806 lm
20.40W	**1025**	1025	40.35	1860 lm
21.00W	**1055**	1055	41.54	1915 lm
21.60W	**1085**	1085	42.72	1969 lm
22.20W	**1115**	1115	43.90	2024 lm
22.80W	**1145**	1145	45.08	2078 lm
23.40W	**1175**	1175	46.26	2133 lm
24.00W	**1205**	1205	47.44	2187 lm
24.60W	**1235**	1235	48.62	2241 lm
25.20W	**1265**	1265	49.80	2296 lm
25.80W	**1295**	1295	50.98	2350 lm
26.40W	**1325**	1325	52.17	2405 lm
27.00W	**1355**	1355	53.35	2459 lm
27.60W	**1385**	1385	54.53	2514 lm
28.20W	**1415**	1415	55.71	2568 lm
28.80W	**1445**	1445	56.89	2623 lm
29.40W	**1475**	1475	58.07	2677 lm
30.00W	**1505**	1505	59.25	2731 lm
30.60W	**1535**	1535	60.43	2786 lm
31.20W	**1565**	1565	61.61	2840 lm
31.80W	**1595**	1595	62.80	2895 lm
32.40W	**1625**	1625	63.98	2949 lm
33.00W	**1655**	1655	65.16	3004 lm
33.60W	**1685**	1685	66.34	3058 lm
34.20W	**1715**	1715	67.52	3113 lm
34.80W	**1745**	1745	68.70	3167 lm
35.40W	**1775**	1775	69.88	3222 lm
36.00W	**1805**	1805	71.06	3276 lm
36.60W	**1835**	1835	72.24	3330 lm
37.20W	**1865**	1865	73.43	3385 lm
37.80W	**1895**	1895	74.61	3439 lm
38.40W	**1925**	1925	75.79	3494 lm
39.00W	**1955**	1955	76.97	3548 lm
39.60W	**1985**	1985	78.15	3603 lm
40.20W	**2015**	2015	79.33	3657 lm
40.80W	**2045**	2045	80.51	3712 lm
41.40W	**2075**	2075	81.69	3766 lm
42.00W	**2105**	2105	82.87	3820 lm

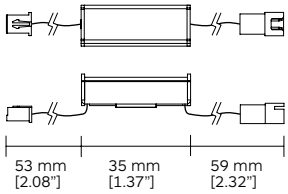
Notes:

* For driver information, please see page 83.

Complete Length Codes List

Microline Ø14 | 31W/m | G422

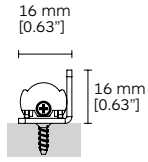
Min. L= 35mm (1.37")



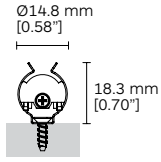
Max. L= 1925mm (75.79")

Mounting options

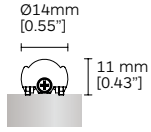
With magnet L bracket



With mounting U clip



With magnet



Increment: 30mm (1.18")

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.93W	**0035**	35	1.37	110 lm
1.86W	**0065**	65	2.56	205 lm
2.79W	**0095**	95	3.74	299 lm
3.72W	**0125**	125	4.92	394 lm
4.65W	**0155**	155	6.10	488 lm
5.58W	**0185**	185	7.28	583 lm
6.51W	**0215**	215	8.46	678 lm
7.44W	**0245**	245	9.65	772 lm
8.37W	**0275**	275	10.83	867 lm
9.30W	**0305**	305	12.01	961 lm
10.23W	**0335**	335	13.19	1056 lm
11.16W	**0365**	365	14.37	1150 lm
12.09W	**0395**	395	15.55	1245 lm
13.02W	**0425**	425	16.73	1340 lm
13.95W	**0455**	455	17.91	1434 lm
14.88W	**0485**	485	19.09	1529 lm
15.81W	**0515**	515	20.28	1623 lm
16.74W	**0545**	545	21.46	1718 lm
17.67W	**0575**	575	22.64	1812 lm
18.60W	**0605**	605	23.82	1907 lm
19.53W	**0635**	635	25.00	2001 lm
20.46W	**0665**	665	26.18	2096 lm
21.39W	**0695**	695	27.36	2191 lm
22.32W	**0725**	725	28.54	2285 lm
23.25W	**0755**	755	29.72	2380 lm
24.18W	**0785**	785	30.91	2474 lm
25.11W	**0815**	815	32.09	2569 lm
26.04W	**0845**	845	33.27	2663 lm
26.97W	**0875**	875	34.45	2758 lm
27.90W	**0905**	905	35.63	2852 lm
28.83W	**0935**	935	36.81	2947 lm
29.76W	**0965**	965	37.99	3042 lm
30.69W	**0995**	995	39.17	3136 lm
31.62W	**1025**	1025	40.35	3231 lm
32.55W	**1055**	1055	41.54	3325 lm
33.48W	**1085**	1085	42.72	3420 lm
34.41W	**1115**	1115	43.90	3514 lm
35.34W	**1145**	1145	45.08	3609 lm
36.27W	**1175**	1175	46.26	3704 lm
37.20W	**1205**	1205	47.44	3798 lm
38.13W	**1235**	1235	48.62	3893 lm
39.06W	**1265**	1265	49.80	3987 lm
39.99W	**1295**	1295	50.98	4082 lm
40.92W	**1325**	1325	52.17	4176 lm
41.85W	**1355**	1355	53.35	4271 lm
42.78W	**1385**	1385	54.53	4365 lm
43.71W	**1415**	1415	55.71	4460 lm
44.64W	**1445**	1445	56.89	4555 lm
45.57W	**1475**	1475	58.07	4649 lm
46.50W	**1505**	1505	59.25	4744 lm
47.43W	**1535**	1535	60.43	4838 lm
48.36W	**1565**	1565	61.61	4933 lm
49.29W	**1595**	1595	62.80	5027 lm
50.22W	**1625**	1625	63.98	5122 lm
51.15W	**1655**	1655	65.16	5216 lm
52.08W	**1685**	1685	66.34	5311 lm
53.01W	**1715**	1715	67.52	5406 lm
53.94W	**1745**	1745	68.70	5500 lm
54.87W	**1775**	1775	69.88	5595 lm
55.80W	**1805**	1805	71.06	5689 lm
56.73W	**1835**	1835	72.24	5784 lm
57.66W	**1865**	1865	73.43	5878 lm
58.59W	**1895**	1895	74.61	5973 lm
59.52W	**1925**	1925	75.79	6067 lm

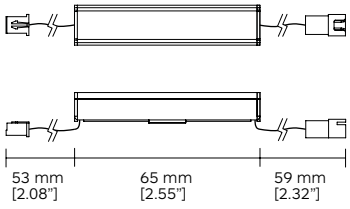
Notes:

* For driver information, please see page 83.

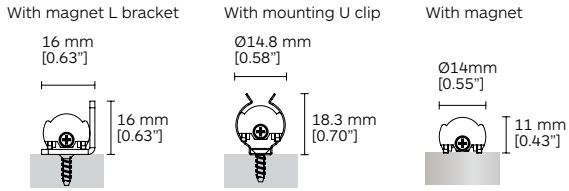
Complete Length Codes List

Microline Ø14 Chain | 1.2W/Link | G435

Min. L= 65mm (2.55”), 1 Link



Mounting options



Max. L= 2990mm (117.71”), 40 Links

Increment: 75mm (2.95”), 1 Link

Available length codes

No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	1.20W	**0065**	65	2.56	118 lm
2	2.40W	**0140**	140	5.51	236 lm
3	3.60W	**0215**	215	8.46	354 lm
4	4.80W	**0290**	290	11.42	472 lm
5	6.00W	**0365**	365	14.37	590 lm
6	7.20W	**0440**	440	17.32	708 lm
7	8.40W	**0515**	515	20.28	826 lm
8	9.60W	**0590**	590	23.23	944 lm
9	10.80W	**0665**	665	26.18	1062 lm
10	12.00W	**0740**	740	29.13	1180 lm
11	13.20W	**0815**	815	32.09	1298 lm
12	14.40W	**0890**	890	35.04	1416 lm
13	15.60W	**0965**	965	37.99	1534 lm
14	16.80W	**1040**	1040	40.94	1652 lm
15	18.00W	**1115**	1115	43.90	1770 lm
16	19.20W	**1190**	1190	46.85	1888 lm
17	20.40W	**1265**	1265	49.80	2006 lm
18	21.60W	**1340**	1340	52.76	2124 lm
19	22.80W	**1415**	1415	55.71	2242 lm
20	24.00W	**1490**	1490	58.66	2360 lm

No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
21	25.20W	**1565**	1565	61.61	2478 lm
22	26.40W	**1640**	1640	64.57	2596 lm
23	27.60W	**1715**	1715	67.52	2714 lm
24	28.80W	**1790**	1790	70.47	2832 lm
25	30.00W	**1865**	1865	73.43	2950 lm
26	31.20W	**1940**	1940	76.38	3068 lm
27	32.40W	**2015**	2015	79.33	3186 lm
28	33.60W	**2090**	2090	82.28	3504 lm
29	34.80W	**2165**	2165	85.24	3422 lm
30	36.00W	**2240**	2240	88.19	3540 lm
31	37.20W	**2315**	2315	91.14	3658 lm
32	38.40W	**2390**	2390	94.09	3776 lm
33	39.60W	**2465**	2465	97.05	3894 lm
34	40.80W	**2540**	2540	100.00	4012 lm
35	42.00W	**2615**	2615	102.95	4130 lm
36	43.20W	**2690**	2690	105.91	4248 lm
37	44.40W	**2765**	2765	108.86	4366 lm
38	45.60W	**2840**	2840	111.81	4484 lm
39	46.80W	**2915**	2915	114.76	4602 lm
40	48.00W	**2990**	2990	117.72	4720 lm

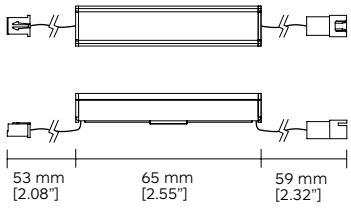
Notes:

* For driver information, please see page 83.

Complete Length Codes List

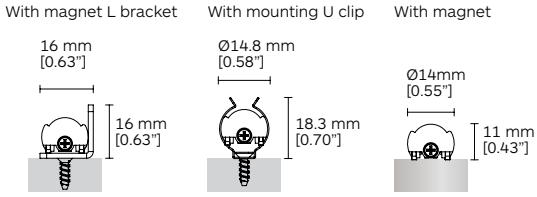
Microline Ø14 Chain | 1.9W/Link | G436

Min. L= 65mm (2.55”), 1 Link



Max. L= 2390mm (94.09”), 32 Links

Mounting options



Increment: 75mm (2.95”), 1 Link

Available length codes

No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	1.86W	**0065**	65	2.56	164 lm
2	3.72W	**0140**	140	5.51	328 lm
3	5.58W	**0215**	215	8.46	492 lm
4	7.44W	**0290**	290	11.42	656 lm
5	9.30W	**0365**	365	14.37	820 lm
6	11.16W	**0440**	440	17.32	984 lm
7	13.02W	**0515**	515	20.28	1148 lm
8	14.88W	**0590**	590	23.23	1312 lm
9	16.74W	**0665**	665	26.18	1476 lm
10	18.60W	**0740**	740	29.13	1640 lm
11	20.46W	**0815**	815	32.09	1804 lm
12	22.32W	**0890**	890	35.04	1968 lm
13	24.18W	**0965**	965	37.99	2132 lm
14	26.04W	**1040**	1040	40.94	2296 lm
15	27.90W	**1115**	1115	43.90	2460 lm
16	29.76W	**1190**	1190	46.85	2624 lm

No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
17	31.62W	**1265**	1265	49.80	2788 lm
18	33.48W	**1340**	1340	52.76	2952 lm
19	33.34W	**1415**	1415	55.71	3116 lm
20	37.20W	**1490**	1490	58.66	3280 lm
21	39.06W	**1565**	1565	61.61	3444 lm
22	40.92W	**1640**	1640	64.57	3608 lm
23	42.78W	**1715**	1715	67.52	3772 lm
24	44.64W	**1790**	1790	70.47	3936 lm
25	46.50W	**1865**	1865	73.43	4100 lm
26	48.36W	**1940**	1940	76.38	4264 lm
27	50.22W	**2015**	2015	79.33	4428 lm
28	52.08W	**2090**	2090	82.28	4592 lm
29	53.94W	**2165**	2165	85.24	4756 lm
30	55.80W	**2240**	2240	88.19	4920 lm
31	57.66W	**2315**	2315	91.14	5084 lm
32	59.52W	**2390**	2390	94.09	5248 lm

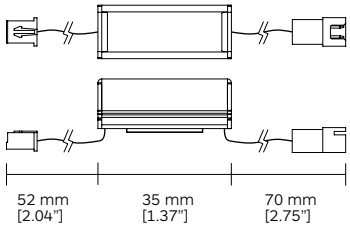
Notes:

* For driver information, please see page 83.

Complete Length Codes List

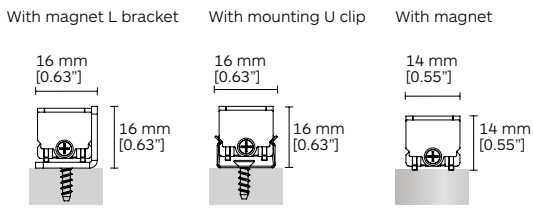
Microline 14 x 14 | 20W/m | G448

Min. L= 35mm (1.37")



Max. L= 2015mm (79.33")

Mounting options



Increment: 30mm (1.18")

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.60W	**0035**	35	1.38	63 lm
1.20W	**0065**	65	2.56	118 lm
1.80W	**0095**	95	3.74	172 lm
2.40W	**0125**	125	4.92	227 lm
3.00W	**0155**	155	6.10	281 lm
3.60W	**0185**	185	7.28	336 lm
4.20W	**0215**	215	8.46	390 lm
4.80W	**0245**	245	9.65	445 lm
5.40W	**0275**	275	10.83	499 lm
6.00W	**0305**	305	12.01	553 lm
6.60W	**0335**	335	13.19	608 lm
7.20W	**0365**	365	14.37	662 lm
7.80W	**0395**	395	15.55	717 lm
8.40W	**0425**	425	16.73	771 lm
9.00W	**0455**	455	17.91	826 lm
9.60W	**0485**	485	19.09	880 lm
10.20W	**0515**	515	20.28	935 lm
10.80W	**0545**	545	21.46	989 lm
11.40W	**0575**	575	22.64	1044 lm
12.00W	**0605**	605	23.82	1098 lm
12.60W	**0635**	635	25.00	1152 lm
13.20W	**0665**	665	26.18	1207 lm
13.80W	**0695**	695	27.36	1261 lm
14.40W	**0725**	725	28.54	1316 lm
15.00W	**0755**	755	29.72	1370 lm
15.60W	**0785**	785	30.91	1425 lm
16.20W	**0815**	815	32.09	1479 lm
16.80W	**0845**	845	33.27	1534 lm
17.40W	**0875**	875	34.45	1588 lm
18.00W	**0905**	905	35.63	1642 lm
18.60W	**0935**	935	36.81	1697 lm
19.20W	**0965**	965	37.99	1751 lm
19.80W	**0995**	995	39.17	1806 lm
20.40W	**1025**	1025	40.35	1860 lm
21.00W	**1055**	1055	41.54	1915 lm
21.60W	**1085**	1085	42.72	1969 lm
22.20W	**1115**	1115	43.90	2024 lm
22.80W	**1145**	1145	45.08	2078 lm
23.40W	**1175**	1175	46.26	2133 lm
24.00W	**1205**	1205	47.44	2187 lm
24.60W	**1235**	1235	48.62	2241 lm
25.20W	**1265**	1265	49.80	2296 lm
25.80W	**1295**	1295	50.98	2350 lm
26.40W	**1325**	1325	52.17	2405 lm
27.00W	**1355**	1355	53.35	2459 lm
27.60W	**1385**	1385	54.53	2514 lm
28.20W	**1415**	1415	55.71	2568 lm
28.80W	**1445**	1445	56.89	2623 lm
29.40W	**1475**	1475	58.07	2677 lm
30.00W	**1505**	1505	59.25	2731 lm
30.60W	**1535**	1535	60.43	2786 lm
31.20W	**1565**	1565	61.61	2840 lm
31.80W	**1595**	1595	62.80	2895 lm
32.40W	**1625**	1625	63.98	2949 lm
33.00W	**1655**	1655	65.16	3004 lm
33.60W	**1685**	1685	66.34	3058 lm
34.20W	**1715**	1715	67.52	3113 lm
34.80W	**1745**	1745	68.70	3167 lm
35.40W	**1775**	1775	69.88	3222 lm
36.00W	**1805**	1805	71.06	3276 lm
36.60W	**1835**	1835	72.24	3330 lm
37.20W	**1865**	1865	73.43	3385 lm
37.80W	**1895**	1895	74.61	3439 lm
38.40W	**1925**	1925	75.79	3494 lm
39.00W	**1955**	1955	76.97	3548 lm
39.60W	**1985**	1985	78.15	3603 lm
40.20W	**2015**	2015	79.33	3657 lm

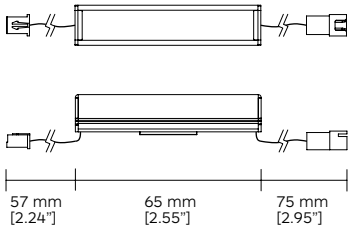
Notes:

* For driver information, please see page 84.

Complete Length Codes List

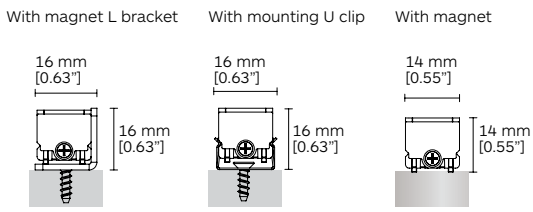
Microline 14 x 14 Chain | 1.20W/Link | G440

Min. L= 65mm (2.55”), 1 Link



Max. L= 2990mm (117.71”), 40 Links

Mounting options



Increment: 75mm (2.95”), 1 Link

Available length codes

No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
1	1.20W	**0065**	65	2.56	118 lm
2	2.40W	**0140**	140	5.51	236 lm
3	3.60W	**0215**	215	8.46	354 lm
4	4.80W	**0290**	290	11.42	472 lm
5	6.00W	**0365**	365	14.37	590 lm
6	7.20W	**0440**	440	17.32	708 lm
7	8.40W	**0515**	515	20.28	826 lm
8	9.60W	**0590**	590	23.23	944 lm
9	10.80W	**0665**	665	26.18	1062 lm
10	12.00W	**0740**	740	29.13	1180 lm
11	13.20W	**0815**	815	32.09	1298 lm
12	14.40W	**0890**	890	35.04	1416 lm
13	15.60W	**0965**	965	37.99	1534 lm
14	16.80W	**1040**	1040	40.94	1652 lm
15	18.00W	**1115**	1115	43.90	1770 lm
16	19.20W	**1190**	1190	46.85	1888 lm
17	20.40W	**1265**	1265	49.80	2006 lm
18	21.60W	**1340**	1340	52.76	2124 lm
19	22.80W	**1415**	1415	55.71	2242 lm
20	24.00W	**1490**	1490	58.66	2360 lm

No. of Links	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
21	25.20W	**1565**	1565	61.61	2478 lm
22	26.40W	**1640**	1640	64.57	2596 lm
23	27.60W	**1715**	1715	67.52	2714 lm
24	28.80W	**1790**	1790	70.47	2832 lm
25	30.00W	**1865**	1865	73.43	2950 lm
26	31.20W	**1940**	1940	76.38	3068 lm
27	32.40W	**2015**	2015	79.33	3186 lm
28	33.60W	**2090**	2090	82.28	3504 lm
29	34.80W	**2165**	2165	85.24	3422 lm
30	36.00W	**2240**	2240	88.19	3540 lm
31	37.20W	**2315**	2315	91.14	3658 lm
32	38.40W	**2390**	2390	94.09	3776 lm
33	39.60W	**2465**	2465	97.05	3894 lm
34	40.80W	**2540**	2540	100.00	4012 lm
35	42.00W	**2615**	2615	102.95	4130 lm
36	43.20W	**2690**	2690	105.91	4248 lm
37	44.40W	**2765**	2765	108.86	4366 lm
38	45.60W	**2840**	2840	111.81	4484 lm
39	46.80W	**2915**	2915	114.76	4602 lm
40	48.00W	**2990**	2990	117.72	4720 lm

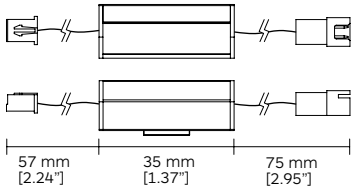
Notes:

* For driver information, please see page 84.

Complete Length Codes List

Microline 14 x 14 Corner | 20W/m | G459

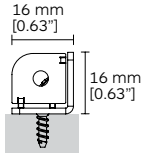
Min. L= 35mm (1.37")



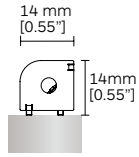
Max. L= 2015mm (79.33")

Mounting options

With magnet L bracket



With magnet



Increment: 30mm (1.18")

Available length codes

LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
0.60W	**0035**	35	1.38	63 lm
1.20W	**0065**	65	2.56	118 lm
1.80W	**0095**	95	3.74	172 lm
2.40W	**0125**	125	4.92	227 lm
3.00W	**0155**	155	6.10	281 lm
3.60W	**0185**	185	7.28	336 lm
4.20W	**0215**	215	8.46	390 lm
4.80W	**0245**	245	9.65	445 lm
5.40W	**0275**	275	10.83	499 lm
6.00W	**0305**	305	12.01	553 lm
6.60W	**0335**	335	13.19	608 lm
7.20W	**0365**	365	14.37	662 lm
7.80W	**0395**	395	15.55	717 lm
8.40W	**0425**	425	16.73	771 lm
9.00W	**0455**	455	17.91	826 lm
9.60W	**0485**	485	19.09	880 lm
10.20W	**0515**	515	20.28	935 lm
10.80W	**0545**	545	21.46	989 lm
11.40W	**0575**	575	22.64	1044 lm
12.00W	**0605**	605	23.82	1098 lm
12.60W	**0635**	635	25.00	1152 lm
13.20W	**0665**	665	26.18	1207 lm
13.80W	**0695**	695	27.36	1261 lm
14.40W	**0725**	725	28.54	1316 lm
15.00W	**0755**	755	29.72	1370 lm
15.60W	**0785**	785	30.91	1425 lm
16.20W	**0815**	815	32.09	1479 lm
16.80W	**0845**	845	33.27	1534 lm
17.40W	**0875**	875	34.45	1588 lm
18.00W	**0905**	905	35.63	1642 lm
18.60W	**0935**	935	36.81	1697 lm
19.20W	**0965**	965	37.99	1751.lm
19.80W	**0995**	995	39.17	1806 lm
20.40W	**1025**	1025	40.35	1860 lm
21.00W	**1055**	1055	41.54	1915 lm
21.60W	**1085**	1085	42.72	1969 lm
22.20W	**1115**	1115	43.90	2024 lm
22.80W	**1145**	1145	45.08	2078 lm
23.40W	**1175**	1175	46.26	2133 lm
24.00W	**1205**	1205	47.44	2187 lm
24.60W	**1235**	1235	48.62	2241 lm
25.20W	**1265**	1265	49.80	2296 lm
25.80W	**1295**	1295	50.98	2350 lm
26.40W	**1325**	1325	52.17	2405 lm
27.00W	**1355**	1355	53.35	2459 lm
27.60W	**1385**	1385	54.53	2513 lm
28.20W	**1415**	1415	55.71	2568 lm
28.80W	**1445**	1445	56.89	2623 lm
29.40W	**1475**	1475	58.07	2677 lm
30.00W	**1505**	1505	59.25	2731 lm
30.60W	**1535**	1535	60.43	2786 lm
31.20W	**1565**	1565	61.61	2840 lm
31.80W	**1595**	1595	62.80	2895 lm
32.40W	**1625**	1625	63.98	2949 lm
33.00W	**1655**	1655	65.16	3004 lm
33.60W	**1685**	1685	66.34	3058 lm
34.20W	**1715**	1715	67.52	3113 lm
34.80W	**1745**	1745	68.70	3167 lm
35.40W	**1775**	1775	69.88	3222 lm
36.00W	**1805**	1805	71.06	3276 lm
36.60W	**1835**	1835	72.24	3330 lm
37.20W	**1865**	1865	73.43	3385 lm
37.80W	**1895**	1895	74.61	3439 lm
38.40W	**1925**	1925	75.79	3494 lm
39.00W	**1955**	1955	76.97	3548 lm
39.60W	**1985**	1985	78.15	3603 lm
40.20W	**2015**	2015	79.33	3657 lm

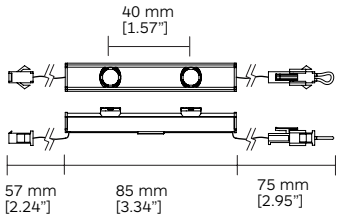
Notes:

* For driver information, please see page 84.

Complete Length Codes List

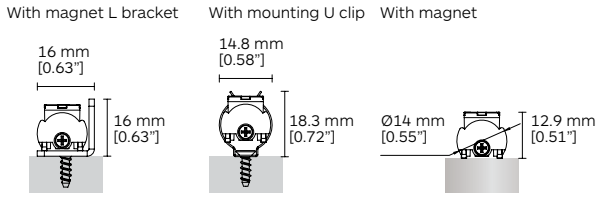
Microline Spot | G426

Min. L= 85mm (3.34”), 2 LED



Max. L= 1285mm (50.59”), 32 LEDs

Mounting options



Increment: 80mm (3.14”), 2 LEDs

Available length codes

No. of LEDs	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
2	3.2V	2.00W	**0085**	85	3.35	180 lm
4	6.4V	4.00W	**0165**	165	6.50	360 lm
6	9.6V	6.00W	**0245**	245	9.65	540 lm
8	12.5V	8.00W	**0325**	325	12.80	720 lm
10	16V	10.00W	**0405**	405	15.94	900 lm
12	19.2V	12.00W	**0485**	485	19.09	1080 lm
14	22.4V	14.00W	**0565**	565	22.24	1260 lm
16	25.6V	16.00W	**0645**	645	25.39	1440 lm

No. of LEDs	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
18	28.8V	18.00W	**0725**	725	28.54	1620 lm
20	32V	20.00W	**0805**	805	31.69	1800 lm
22	35.2V	22.00W	**0885**	885	34.84	1980 lm
24	38.4V	24.00W	**0965**	965	37.99	2160 lm
26	41.6V	26.00W	**1045**	1045	41.14	2340 lm
28	44.8V	28.00W	**1125**	1125	44.29	2520 lm
30	48V	30.00W	**1205**	1205	47.48	2700 lm
32	51.2V	32.00W	**1285**	1285	50.59	2880 lm

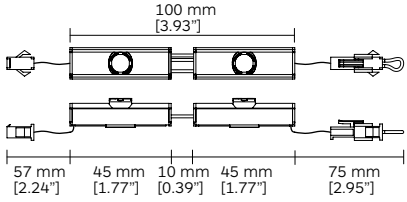
Notes:

* For driver information, please see page 84.

Complete Length Codes List

Microline Spot Chain | G438

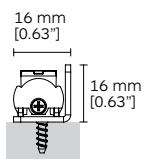
Min. L= 100mm (3.93”), 2 LED, 2 Links



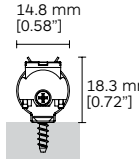
Max. L= 1750mm (68.89”), 32 LEDs, 32 Links

Mounting options

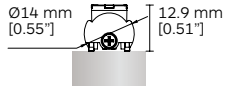
With magnet L bracket



With mounting U clip



With magnet



Increment: 110mm (4.33”), 2 LED, 2 Links

Available length codes

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
2	3.2V	2.00W	**0100**	100	3.93	180 lm
4	6.4V	4.00W	**0210**	210	8.26	360 lm
6	9.6V	6.00W	**0320**	320	12.59	540 lm
8	12.5V	8.00W	**0430**	430	16.92	720 lm
10	16V	10.00W	**0540**	540	21.25	900 lm
12	19.2V	12.00W	**0650**	650	25.59	1080 lm
14	22.4V	14.00W	**0760**	760	29.92	1260 lm
16	25.6V	16.00W	**0870**	870	34.25	1440 lm

No. of Links	Voltage	LED Power	Length code	Length in mm	Length in inches	Nominal Lumen
18	28.8V	18.00W	**0980**	980	38.58	1620 lm
20	32V	20.00W	**1090**	1090	42.91	1800 lm
22	35.2V	22.00W	**1200**	1200	47.24	1980 lm
24	38.4V	24.00W	**1310**	1310	51.57	2160 lm
26	41.6V	26.00W	**1420**	1420	55.90	2340 lm
28	44.8V	28.00W	**1530**	1530	60.23	2520 lm
30	48V	30.00W	**1640**	1640	64.56	2700 lm
32	51.2V	32.00W	**1750**	1750	68.89	2880 lm

Notes:

* For driver information, please see page 85.

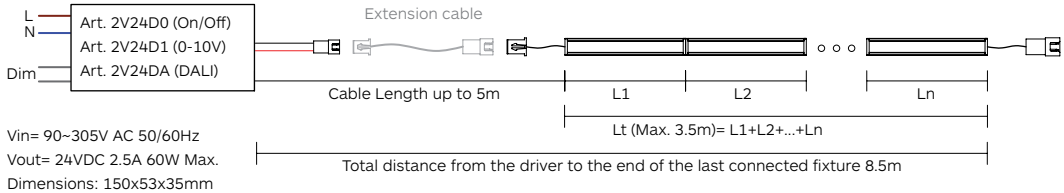
Driver Options

Driver Options

Constant Voltage

Microline 5 x 5

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 3.5m long fixtures.



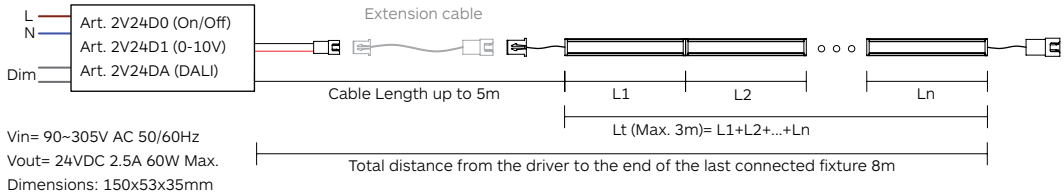
G466

Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Microline 7 x 7

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 3m long fixtures.



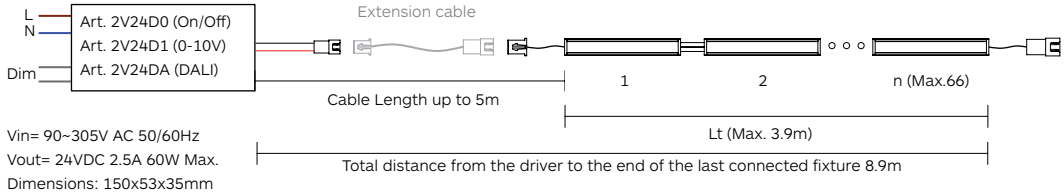
G447

Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Microline 7 x 7 Chain

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 66 links, about 3.9m long fixtures.



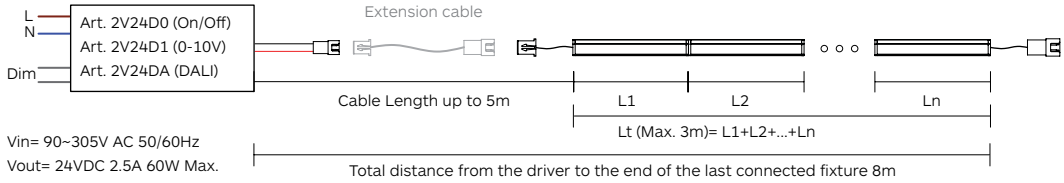
G442

Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Microline 7 x 7 Corner

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 3m long fixtures.



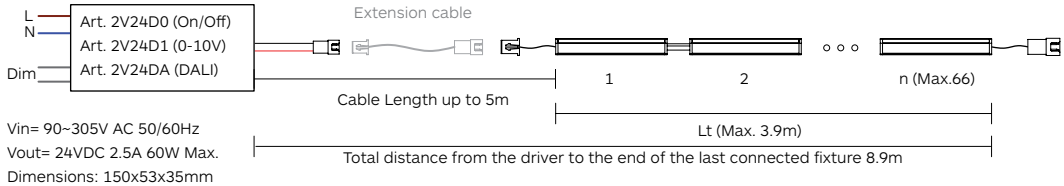
G446

Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Microline 7 x 7 Corner Chain

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 66 links, about 3.9m long fixtures.



G431

Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Notes:

* For complete code ordering information, please see page 91.

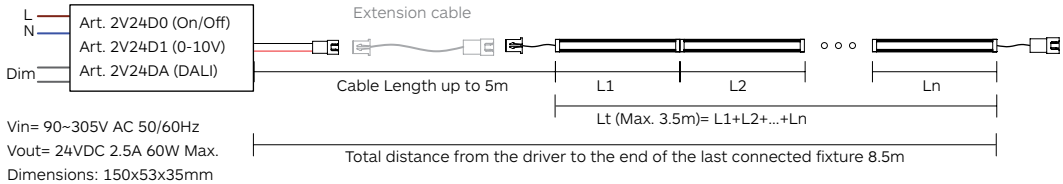
Driver Options

Constant Voltage

Microline 10 x 6

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 3.5m long fixtures.

G460



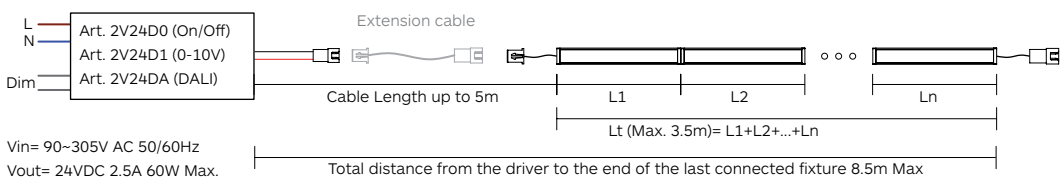
Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Microline 9 x 8

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 3.5m long fixtures.

G461



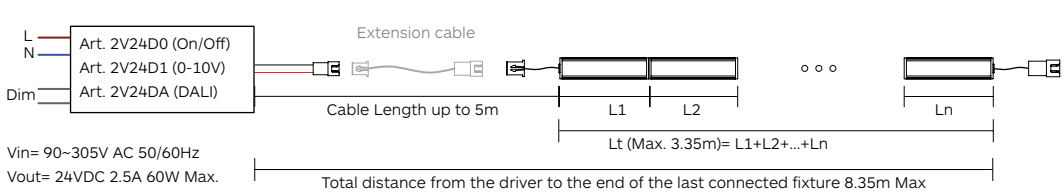
Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Microline Ø9

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 3.35m long fixtures.

G421



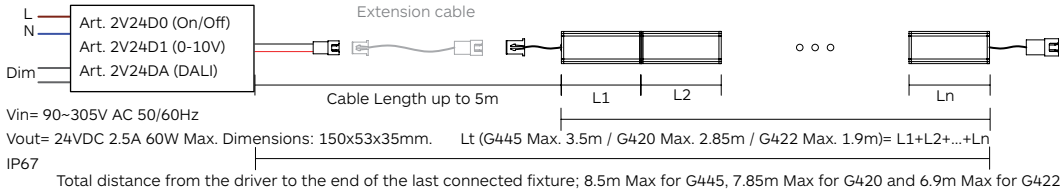
Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Microline Ø14

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 3.5m G445 / 2.85m G420 / 1.9m G422 long fixtures.

G445 / G420 / G422



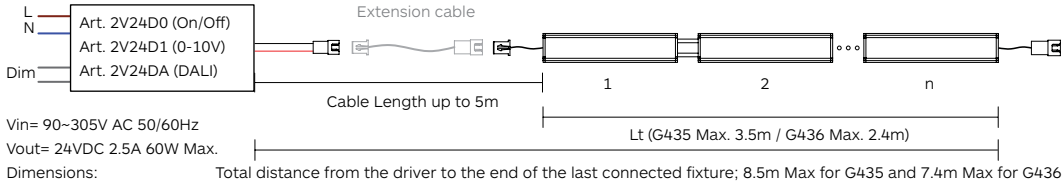
Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max. Dimensions: 150x53x35mm.
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Microline Ø14 Chain

2V24 Constant Voltage LED Driver.
1 Driver for Maximum 47 links G435 about 3.5m / 32 links G436 about 2.4m long fixtures.

G435 / G436



Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Notes:

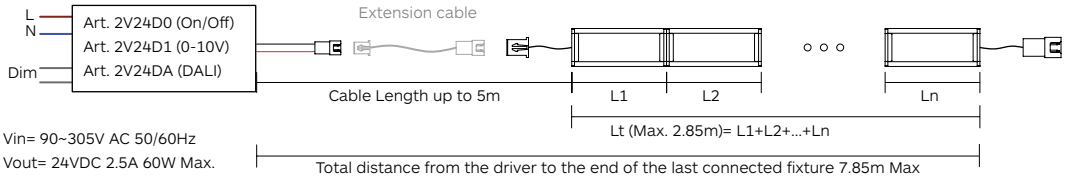
* For complete code ordering information, please see page 91.

Driver Options

Constant Voltage

Microline 14 x 14

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 2.85m long fixtures.



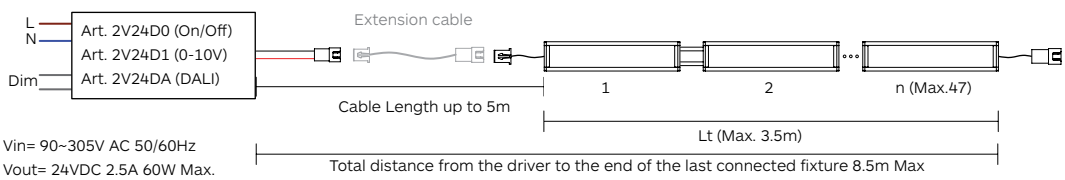
G448

Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Microline 14 x 14 Chain

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 47 links about 3.5m long fixtures.



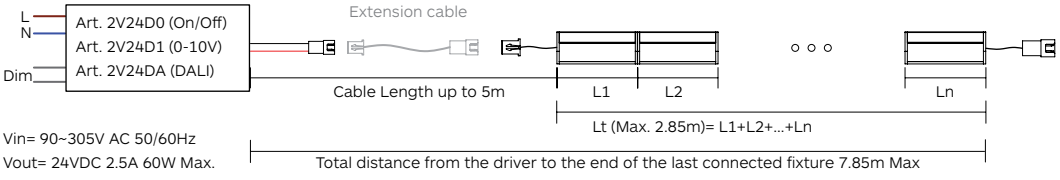
G440

Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Microline 14 x 14 Corner

2V24 Constant Voltage LED Driver. 1 Driver for Maximum 2.85m long fixtures.



G459

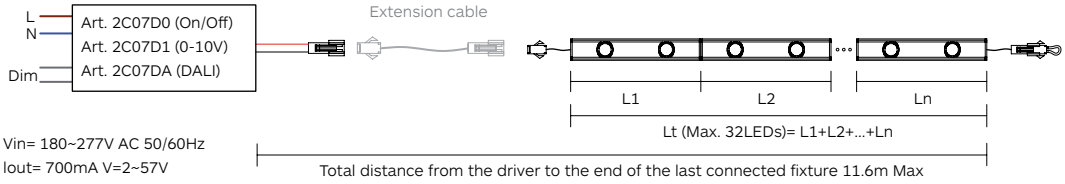
Vin= 90~305V AC 50/60Hz
Vout= 24VDC 2.5A 60W Max.
Dimensions: 150x53x35mm
IP67

Extension cable. Art. **2D58**. 1m (if necessary).

Constant Current

Microline Spot

2C07 Constant Current LED Driver. 1 Driver can drive 2-32 LEDs, about 1285mm Max.



G426

Vin= 180~277V AC 50/60Hz
Iout= 700mA V=2~57V
P= 40W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Notes:

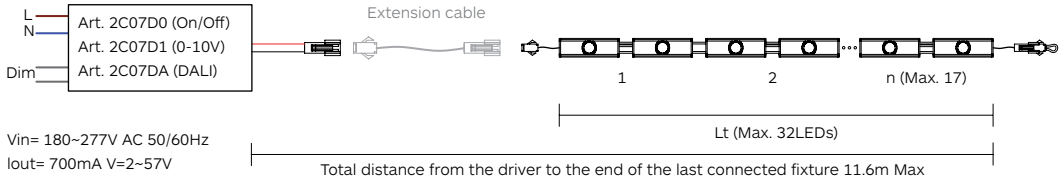
* For complete code ordering information, please see page 91.

Driver Options

Constant Current

Microline Spot Chain

2C07 Constant Current LED Driver. 1 Driver can drive 2-32 LEDs, about 1750mm Max.



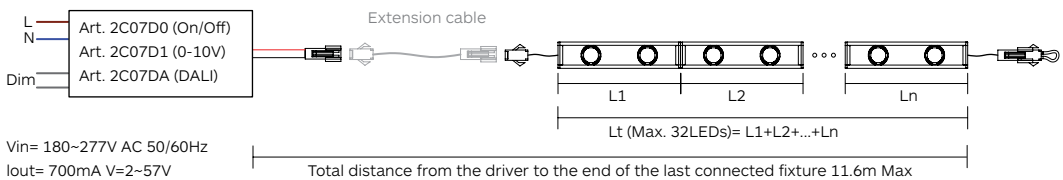
G438

Vin= 180~277V AC 50/60Hz
Iout= 700mA V=2~57V
P= 40W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Mini Cobra Linealuce

2C07 Constant Current LED Driver. 1 Driver can drive 2-32LEDs, about 965mm Max.



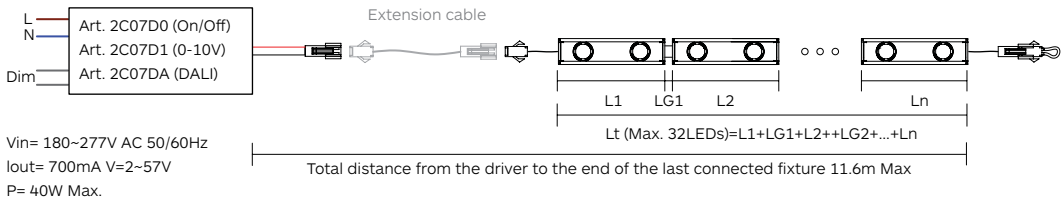
G451

Vin= 180~277V AC 50/60Hz
Iout= 700mA V=2~57V
P= 40W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Mini Cobra Flex

2C07 Constant Current LED Driver. 1 Driver can drive 2-32 LEDs, about 956mm Max.



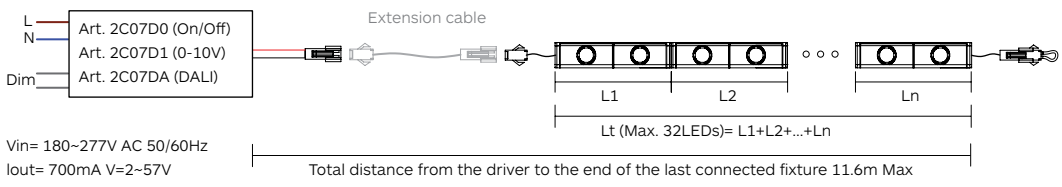
G430

Vin= 180~277V AC 50/60Hz
Iout= 700mA V=2~57V
P= 40W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Mini Cobra Linealuce Louvre

2C07 Constant Current LED Driver. 1 Driver can drive 2-32LEDs, about 965mm Max.



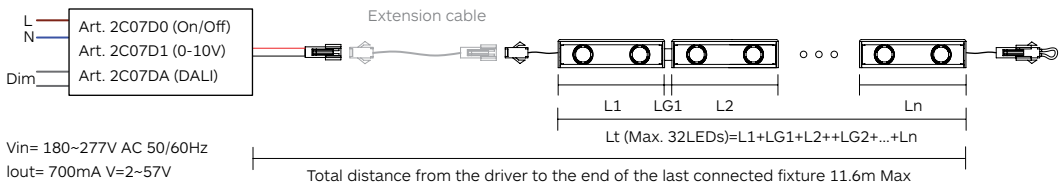
G452

Vin= 180~277V AC 50/60Hz
Iout= 700mA V=2~57V
P= 40W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Mini Cobra Flex Louvre

2C07 Constant Current LED Driver. 1 Driver can drive 2-32LEDs, about 956mm Max.



G439

Vin= 180~277V AC 50/60Hz
Iout= 700mA V=2~57V
P= 40W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Notes:

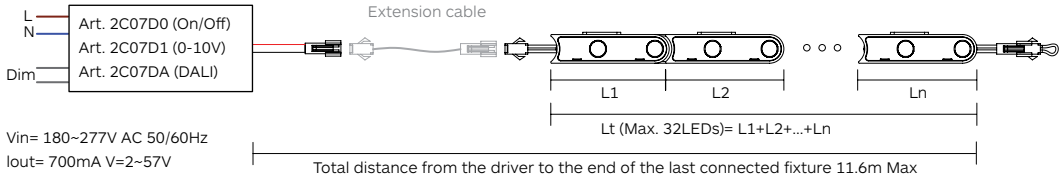
* For complete code ordering information, please see page 91.

Driver Options

Constant Current

Mini Cobra Pro

2C07 Constant Current LED Driver. 1 Driver can drive 2-32LEDs, about 962mm Max.



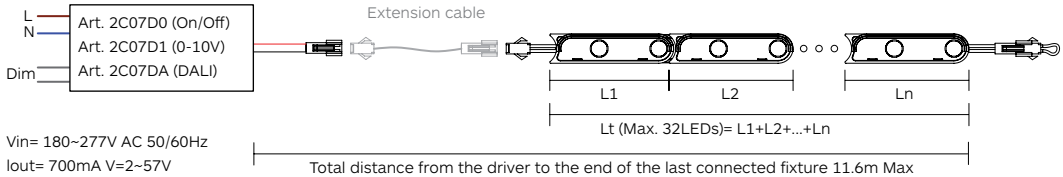
G462

Vin= 180~277V AC 50/60Hz
Iout= 700mA V=2~57V
P= 40W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Mini Cobra Pro Louvre

2C07 Constant Current LED Driver. 1 Driver can drive 2-32LEDs, about 962mm Max.



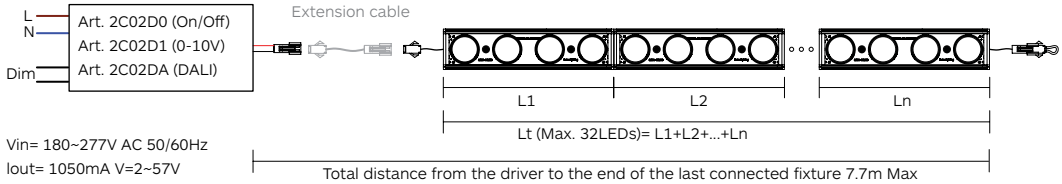
G463

Vin= 180~277V AC 50/60Hz
Iout= 700mA V=2~57V
P= 40W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Cobra Linealuce

2C02 Constant Current LED Driver. 1 Driver can drive 4-32LEDs, about 960mm Max.



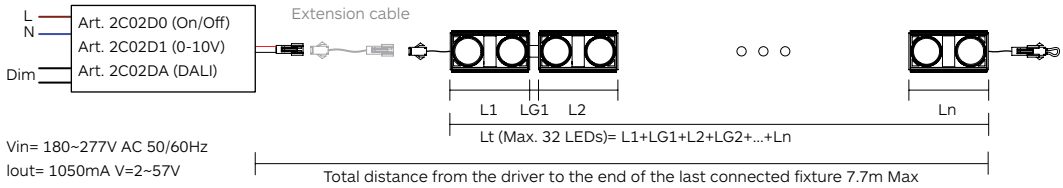
G449

Vin= 180~277V AC 50/60Hz
Iout= 1050mA V=2~57V
P= 60W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Cobra Flex

2C02 Constant Current LED Driver. 1 Driver can drive 2-32LEDs, about 954mm Max.



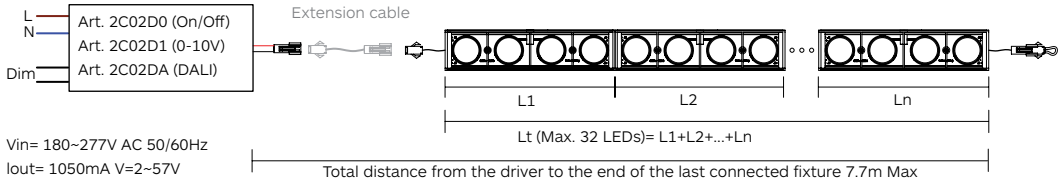
G401

Vin= 180~277V AC 50/60Hz
Iout= 1050mA V=2~57V
P= 60W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Cobra Linealuce Louvre

2C02 Constant Current LED Driver. 1 Driver can drive 4-32LEDs, about 960mm Max.



G450

Vin= 180~277V AC 50/60Hz
Iout= 1050mA V=2~57V
P= 60W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Notes:

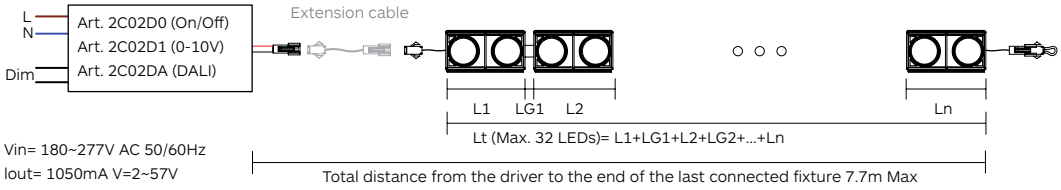
* For complete code ordering information, please see page 91.

Driver Options

Constant Current

Cobra Flex Louvre

2C02 Constant Current LED Driver. 1 Driver can drive 2-32LEDs, about 954mm Max.



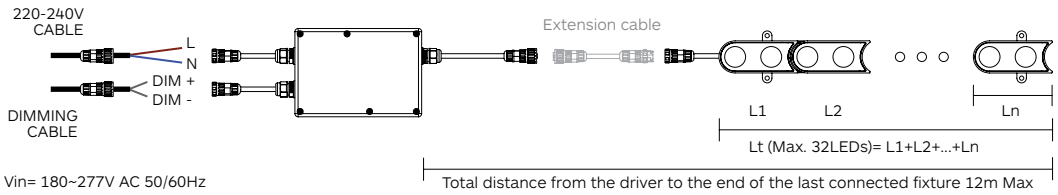
G437

Vin= 180~277V AC 50/60Hz
Iout= 1050mA V=2~57V
P= 60W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2C47**. 1m (if necessary).

Cobra Pro IP66

Constant Current LED Driver. 1 Driver can drive 2-32LEDs, about 1223mm Max.



G301 / G302

Vin= 180~277V AC 50/60Hz
Iout= 1050mA V=2~57V P= 60W Max.
Dimensions: 123.5x81.5x23mm

Extension cable. Art. **2D47**. 1m (if necessary).

Accessories

Product / Accessories	Louvre	Honeycomb	Honeycomb	Narrow Bracket Adjustable	Wide Bracket Adjustable
	Colour 10	Colour 10	Colour 10	Colour 10	Colour 10
Mini Cobra Linealuce	/	/	**2D97**	/	/
Mini Cobra Flex	/	/		/	/
Mini Cobra Pro	/	/	/	**2D03**	**2D04**
Mini Cobra Pro Louvre	/	/	/		
Cobra Linealuce	/	**2D88**	/	/	/
Cobra Flex	/		/	/	/
Cobra Pro IP66 Fixed	**2C97**	/	/	/	/
Cobra Pro IP66 Adjustable		/	/	/	/

** Please refer to the user manuals for further details.*

Notes:

* For complete code ordering information, please see page 91.

Symbols & Icons
Code system
Global presence

Symbols & Icons

Trim Round	
Trim Square	
Trimless Round	
Trimless Square	
Round ceiling cut	
Square ceiling cut	

The CE mark signifies that a product conforms with the relevant ECC directives requirements. The CE marking is compulsory to indicate LVD and EMC conformity.

The CE mark is also a self certification that the manufacter claims that the product is safe. The value of such claim is directly related to thecase of FormaLighting: All products are designed, developed, manufactured under the scope of ISO 9001 quality systems.

All formaLighting products are tested in Europe and certified by an independent laboratory that is registered and audited by an approved European testing authority.

Others third party product approvals

Our products include electrical and electronic components that carry other world wide Test House approvals such as those shown:

CLASS I
Luminaires of insulation Class I - with earth connector.

CLASS II
Luminaires of insulation Class II - With safety isolation, this means the tension conductions element are protected by additional isolation.
The isolation of an earth wire it is not necessary and the connection to it is not allowed.

CLASS III
Luminaires of isolation Class III - designed for operation of protected low voltage supply (>42V).

Passes the 850C glow wire test in accordance with ICE 695-2-1.	850°
Passes the 960C glow wire test in accordance with ICE 695-2-1.	960°
Degree of Ingress Protection*	IP_ _
Dim2Warm	
Tuneable White	
Recyclable	

IP_ _ Degree of Ingress Protection

1st Number	Protection Against Dust and Solid Objects	2nd Number	Protection Against Moisture and Liquids
0	No-Protection	**0**	No-Protection
1	Protection agains solid objects >50 mm	**1**	Protection against dripping water
2	Protection agains solid objects >12 mm	**2**	Protection against dripping water tilted > 15 deg
3	Protection agains solid objects >2.5 mm	**3**	Protection against spraying water > 30 deg
4	Protection agains solid objects >1 mm	**4**	Protection against spraying water
5	Dust - protected	**5**	Protection against water jet
6	Dust - tight	**6**	Protection against waves
		7	Protection against the effects of immersion
		8	Protection against submersion

Level of Shock Resistance

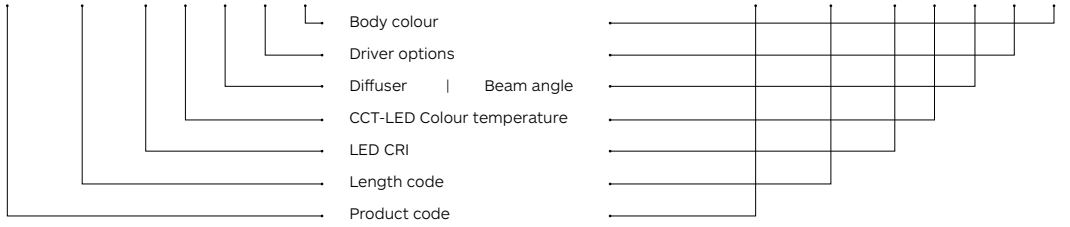
IK00	Not protected	IK00
IK01	Protected against 0.15 J shocks	IK01
IK02	Protected against 0.2 J shocks	IK02
IK03	Protected against 0.35 J shocks	IK03
IK04	Protected against 0.5 J shocks	IK04
IK05	Protected against 0.7 J shocks	IK05
IK06	Protected against 1 J shocks	IK06
IK07	Protected against 2 J shocks	IK70
IK08	Protected against 5 J shocks	IK08
IK09	Protected against 10 J shocks	IK09
IK10	Protected against 20 J shocks	IK10

Code system

Code ordering examples:

Microline 5 x 5: **G 4 4 6 0 0 5 5 . 9 7 2 7 R D 0 0 1 0**

Cobra Pro IP66 Adjustable: **G 3 0 2 0 0 8 3 . 9 0 2 7 1 7 D 0 1 0**



LED CRI	
90	CRI > 90
97	CRI > 97

Driver Options	
00	No Driver
D0	No dimming
DA	Dali Dim
DX	DMX
DC	CASAMBI
D1	0-10 Dim

Body Colour	
10	Black
79	Natural Aluminium

CCT-LED Colour temperature	
27	Warm White 2700K
30	Warm White 3000K
35	Warm White 3500K
40	Neutral White 4000K
TW	Tuneable White 1800K - 6000K
RGB	
RGBW	

Diffuser Options	
OD	Opal diffuser
TD	Transparent lenticular diffuser
RD	Opal rigid diffuser

How to order

	Product code*	Length code	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Diffuser	Driver Options	Finish
Microline 5 x 5	**G466**	**0055**	LED	**97**	**27** 2700K	16W/m	1420 lm/m	**RD**	**00** No Driver	**10** ■ Black
	Product code*	Length code	Light Source	>CRI	CCT**	LED Power	Nominal Lumen	Beam angle (BA°)	Driver Options	Finish
Cobra Pro IP66 Adjustable	**G302**	**0083**	2 x LED	**90**	**27** 2700K	1.5W/LED	183lm/LED	**17 / 29 / EL**	**D0** No Dimming **D1** 0-10V Dim **DA** Dali Dim	**10** ■ Black

Product code	**G466 | G302**
Length code	**0055 | 0083**
LED CRI	**97 | 90**
CCT-LED colour temperature	**27**
Diffuser | Beam angle	**RD | 17**
Dimming options	**00 | D0**
Body colour	**10**

All dimensions in the catalogue in mm and inches.

Global presence

Celebrating 50 years of vision, dedication and innovation, Formalighting's versatile and high-quality product offerings extends internationally via our headquarters in Hong Kong, London, Milan, Shanghai and the USA.
Our well chosen and selected partners as well as our affiliated international offices broaden our global presence further in markets such as Australia, Japan, South East Asia, India and the Middle East.

Through our commitment to growth and investment within formalighting's professional team, infrastructure and product ranges, we are able to provide increasing service to our global retail and hospitality clients as well as lighting designers and specifiers strengthening our position as a leading international supplier of innovative architectural lighting solutions and systems.

With 50 years' experience in designing and manufacturing architectural lighting, formalighting's comprehensive portfolio offers a competitive range of European designed and expertly engineered products that carry CB, CE, CCC and UL certifications.

Furthermore formalighting's latest award-winning motorized range of track, pendant, and recessed fixtures, featuring remote-controlled adjustable pan and tilt, dim, dim to warm, tuneable white and beam shaping lens, are available worldwide incorporating the latest, most advanced lighting technologies.

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Technical information on the installation-instruction has precedence over the information in the catalogue.
Our general terms and conditions shall apply notwithstanding any stipulation on the contrary to all the orders and agreement with formalighting. You can obtain a copy of these conditions on demand.

Publication date: March 2020
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NEW YORK

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MOTOLUX

Motorized Remote Controlled Lighting

2020 | 21

MOTOLUX

Motorized Remote Controlled Lighting

formalighting

MOTOLUX
Motorized Remote Controlled Lighting

48V Low Voltage Track

Moto-Zero

26 New

Moto-Zero **Zoom**

28 New

Main Voltage Track

Moto-Zero Compasso

32

Moto-Zero Compasso **Zoom** (Integrated Driver)

34 New

Moto-Zero & Moto-Zero **Zoom**

36 New

Recessed

Moto-Ola

40

Moto-Polaris

42

Moto-Combo & Moto-Combo **Zoom**

44 New

Moto-Venus

46

Moto-Zero In & Out

52

Moto-Palla In & Out

54

Surface

Moto-Colosseo

58 New

Moto-Gimbalo & Moto-Gimbalo **Zoom**

60 New

Moto-MultiGimbalo & Moto-MultiGimbalo **Zoom**

62

Moto-Flap

68 New

Moto-Gimbalo Surface

70

Pendant

Moto - Gimbalo Pendant

72

Outdoor

Sistema Moto-MultiGimbalo

74

Moto-LineaVolo

76 New

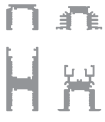
Moto-Terraluce

Landscape

78

Track Systems & Accessories

Low Voltage Track Options



85

Power Supply

90

Eurotype Track System

92

formalighting

MOTOLUX a smart, affordable and complete solution for aiming and focusing lighting, without a ladder or lift. With MOTOLUX, formalighting brings the latest innovations in motorized lighting to the forefront.

Formalighting designed MOTOLUX specifically for the architectural market with design, form, and function as the foundation to servicing specific lighting needs across multiple applications in retail, hospitality, museum and commercial environments.

Historically, the motorized lighting used in commercial environments came from the theatrical world where the products were derived from large format expensive stage lights limiting their use to niche applications, typically in areas with little to no access.

By using is best-selling products as base, formalighting created compact motorized lighting, which are accessible for all applications offering the benefits and peculiarities of quality architectural fixtures that can be remotely panned, tilted and dimmed. Furthermore, it will be possible to remotely adjust the colour temperature and the beam angle of the fixture. All of this, for only a small increment in price.

In short, formalighting has created a versatile remote controlled series of motorized architectural lighting, MOTOLUX, that is ideal for applications in all the dynamic environments as well as where the distance between the ceiling and the surface to illuminate is an issue.

Eliminated the need for ladders and lifts, MOTOLUX delivers *3 Key benefits*:

Reduced Costs

Light refocusing is done, most of the time, after normal working hours, which results in overtime costs. Maintenance staff or outside contractors have to be brought in to refocus the lighting. MOTOLUX eliminates this by simplifying the process and making safe and easy for anyone to refocus lighting.

Limits Liability

Since ladders or expensive scaffolds are not anymore required, it is safe and easy for ANY employee to adjust the lighting, reducing potential liability issues of work place accidents. The motor are silent and include a mechanical safety clutch to prevent any possible damage in the event of being operated manually

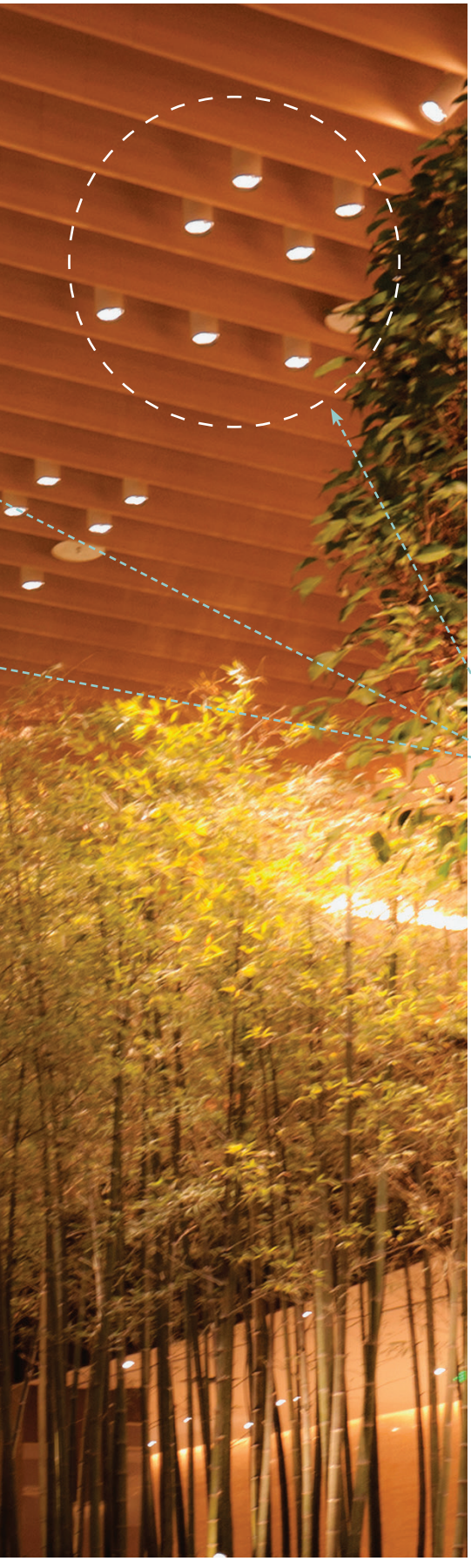
Updated Lighting

Our motorized architectural lighting fixtures help to ensure lighting is focused where and when is needed. It is extremely easy for any person to make the necessary changes and adjustments with a touch on a smart-device's screen using our app or with a click on a button of our patented remote control.

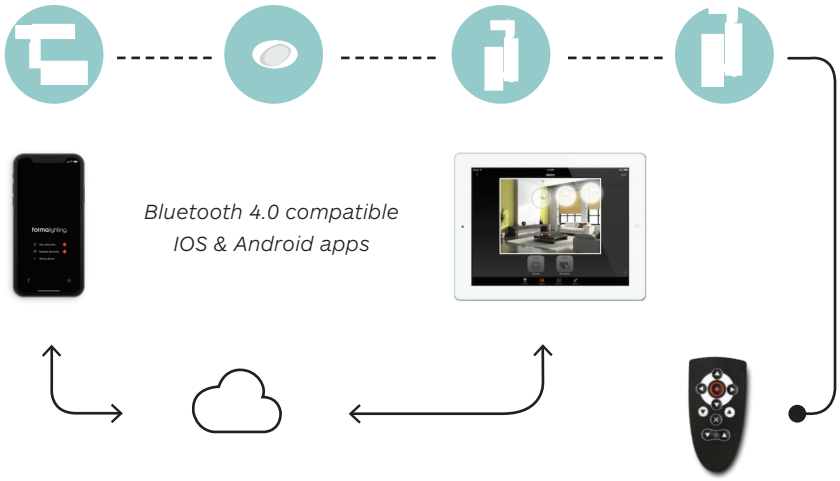
The Future of Light is moving

MOTOLUX

Motorized Remote Controlled Lighting



Central control



1. Not all fixtures must be by formalighting.

2. Dimming functions accure throughout the day for various reasons; often many times per day.

3. Casambi gives up control of dimming functions to Central System so formalighting's fixtures do not require a secondary controller for dimming.

Remote control, sensor data, SW updates, configuration.

Not all environments are the same. We understand this so we developed the full remote control MOTOLUX motorized architectural fixtures with the flexibility to be controlled in many different ways. Whether through one of our control method, Casambi app or LaserDim Remote Control or a third party centralized system (i.e. DALI) combined with one of our control method.

Our first method of control is our hand held remote called "Laser Dim". This gives you the capability to Pan, Tilt, Dim and even to change the light color, when applicable, of a single or multiple fixtures at one time. In this scenario, rather than grabbing a ladder and climbing to the top, you simply pull your remote out of the drawer and point and click your way to re-focused lighting.

Secondly, formalighting's Bluetooth enabled application, powered by Casambi, offers the same functionality of Laser Dim combined with advanced smart lighting features. If Laser Dim equates to the ladder, this option is a smart ladder. Our Casambi based applications has many of the same functions of popular centralized control systems in that is capable creating and memorizing Zones and Scenes as well as executing timer based commands for formalighting products, but it is also capable of controlling non formalighting fixtures through the use of simple click on modules.

The third and most popular from of control is a hybrid where MOTOLUX, like any other architectural fixture, can be dimmed via a third party system using phase or 0-10v dimming protocols. In this scenario dimming commands which happen many times a day for various reasons and possibly even from various inputs are executed as desired, but less frequent refocusing needs are handled by one of the two options above.

Casambi & formalighting

The Casambi solution is based on Bluetooth Low Energy, the state-of-the-art wireless technology and the only low power wireless technology in all modern smartphones, tablets and even smart watches, making it the only mainstream and future proof low power radio technology in the world.

Casambi technology provides a self-organizing wireless mesh network able to control a large number of fixtures from any point. It also allows for firmware updates over the network, allowing any kind of changes to be made over-the-air. In this kind of fully distributed and symmetric architecture, any unit can go offline and catch up from others when they return back online.

Formalighting app by Casambi works as one of the user interfaces in a Casambi lighting control solution, as the commissioning tool and as well as a remote gateway. The app works with iOS as well as Android devices, like smartphones, tablets and smartwatches. The app is free to download by any end user.

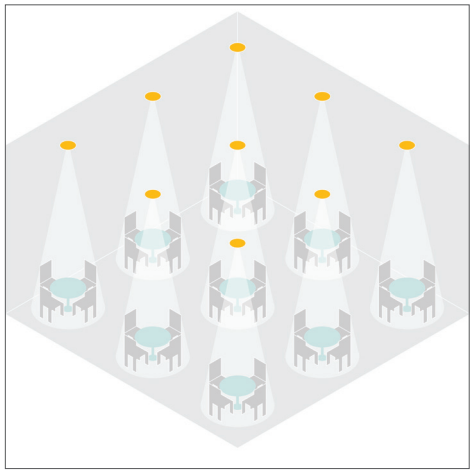
The Casambi app is made by user interface experts and in a way, that anyone - regardless of technical proficiency- can use it. Thanks to the formalighting app by Casambi it will be possible for the users to control the pan and tilt movement of the MOTOLUX fixtures, dimming the intensity of the light, easily use special features such as TuneableWhite, DimToWarm, RGB/W and Zoom beam shaping.

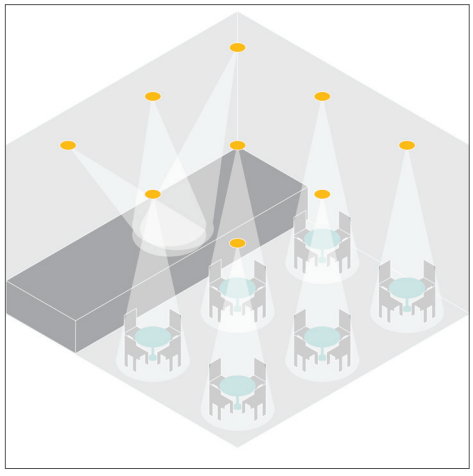
The app will only show in the user interface the functionality that is relevant for the fixtures used in the specific project. Therefore, the Casambi app is equally suitable for the professional lighting market as well as the residential field. The Casambi devices are smart on their own and they connect only when is needed.

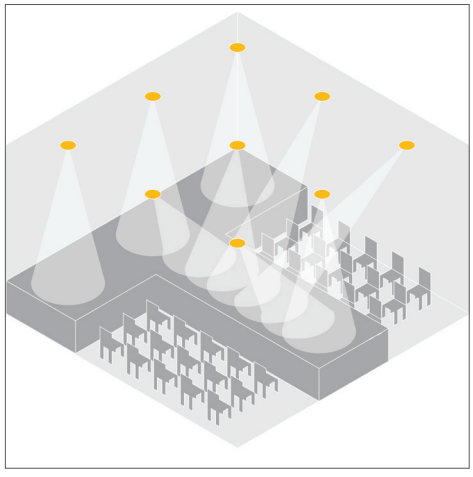
An Internet connection is not necessary for normal operation, it is only needed for user interface configurations to be sent or recalled from the cloud service.

CASAMBI

Easy Configuration







We introduce an easy and precised way to control and configure our luminaries. Using the MOTOLUX app powered by Casambi, it will be easy and fast to create scenes involving dimerization, colour tuning and fixtures movements.

After saving it any scene can be recall with a simple click. Multiple scenes can be saved in the app, to adapt the illumination to the different time of the day or the different use of the ambience to enlighten.

One sigle installation with endless possibilities:

- **Create and save a specific scene.**
- **Change scenes at any time digitally.**
- **Program differente scenes to be changed automatically at a time set.**

Key Features

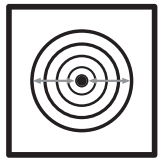
Zoom. Change of beam angle

Every. Angle. Covered.

For unparalleled flexibility, selected MOTOLUX fixtures incorporate yet beam-shaping lens, to focus the luminaires beam angle from narrow to diffuse wide, giving the designers and the users the possibility to easily reconfigurate the same ambience according with different type of events. Now you have many choice with one fixture.

Beam Angles

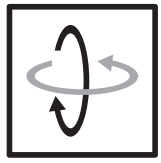
Ultra spot, narrow, medium and wide beam



Different light distributions offer freedom in design. For this reason, MOTOLUX luminaires are offered with different beam angles, ranging from ultra-spot to wide or flood, depending on the light source selected. Ultra-spot illumination allows to sharp focus on specific area or objects. Another advantage is the possibility to delivers good illumination from high ceiling.

Pan & Tilt

Move light head remotely



With dual axis hot aiming, the pan and tilt of any MOTOLUX fixture are easily controlled and instantly revised via a Bluetooth application or a user-friendly hand held remote control. It will be no longer necessary to hire maintenance technical staff, using ladders or operating complicate mechanical scaffolds, only to reconfigure the ambience's illumination.

Tuneable White

Human Centric Light

In response to the gradual shifts in colour temperature of natural light throughout the course of a day and a season, MOTOLUX luminaires offer also a Tuneable White fixture. The white colour temperature of the light can be adjusted in 2700-6500K range. The right temperature at every moment of the day and for every event.

RGB / RGBW

Millions of colour shades

Another option of the advanced MOTOLUX LED light engines is RGBW. Fixtures with RGBW allow the possibility to change the light colour in a range of over 15 shades. Using high end optics the MOTOLUX RGBW luminaires deliver a uniform and shadow free light effect, making them an ideal solution for retail and shop window applications.

Full Spectrum (Sunlight)

Just like the sunlight

Full Spectrum modules offer the possibility to imitate like never before the spectrum of the sunlight, giving the designer the opportunity to create dramatic effects and playing with the whole natural colour spectrum. The full spectrum fixtures displayed any subject in a real natural light or been optimized with gradients of off-Planckian colours.

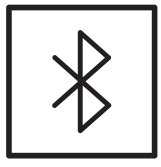
Connectivity

Mesh Netwrok

MOTOLUX powered by Casambi provides an organized wireless mesh network able to control infinite numbers of fixtures, where all the intelligence of the system is replicated in every single fixture. In this kind of fully distributed and symmetric architecture, with no single points of failure, any unit can go offline and catch up from others when it return back online.

Bluetooth

All its power in your hands



Thanks to the formalighting app powered by Casambi it will be possible for the users to control, via smartphone or tablet, the pan and tilt movement of the MOTOLUX fixtures, dimming the intensity of the light, easily use special features such as Full Spectrum colour regulation, Tuneable White and beam shaping focus. Furthermore it will be possible create or recall specific light scene.

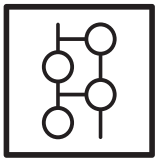
Remote Control

Simply Life

One fixtures or Infinite fixtures, only one patented remote control. Use the device to take the control of the scene. Point the controller to the dome of a luminaire (from a distance of up to 12 meters) and push the button, the dome will turn green. It will be possible to tilt/ pan the fixtures, regulate the intensity and the temperature of the light with a touch of a button.

Full controll

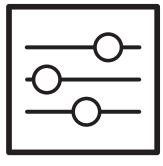
Take control of the scene



MOTOLUX technology makes easy to control multiple luminaires together. This operation is simple with both control methods, smart device app and patented remote control. User can group the luminaires and control their movements, light intensity and light temperature together. With Casambi it will be possible to create scene involving the luminaire group.

Multi Dim

Add colour to your life



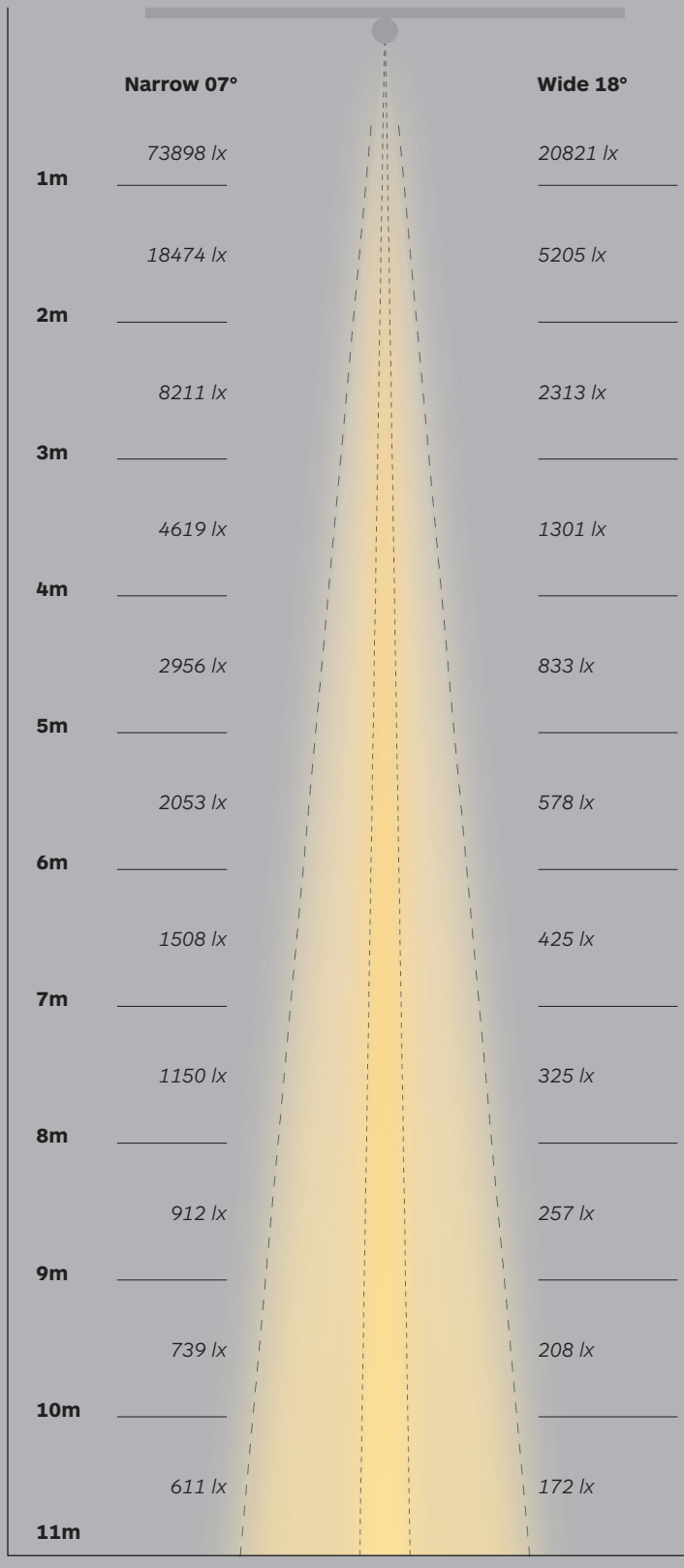
MOTOLUX fixtures powered by Casambi offer a comprehensive colour controlling possibility. User can change the light colour in a simple way via the app interface. It will be possible to choose between many different gradients and save the favourite colours in a personalized colour palette.

Switchable

Easy control

MOTOLUX luminaires powered by Casambi can also be controlled from standard wall switches and push buttons without the Casambi app. A standard wall switch or a push button can be used for dimming, controlling a scene or to swap through several scenes. In this way, there is no need to install additional dimmers.

Beam Shaping (BS)



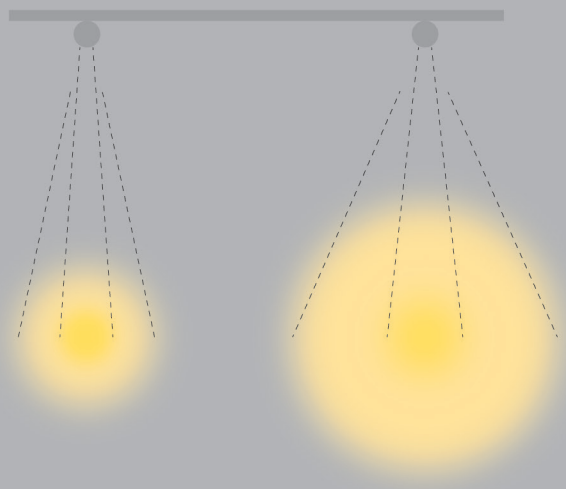
Every. Angle. Covered.

Each MOTOLUX luminaire is offered in an option of at least two different beam angles, ranging from narrow to wide or flood, depending on the light source selected.

For unparalleled flexibility, MOTOLUX introduces the new Zoom options, for selected fixtures. Based on pioneering beam-shaping lens technology, the Zoom option allows the user to adjust the luminaires' beam angle from narrow to diffuse wide, giving the possibility to reconfigure the same ambience according with the type of event.

Using the MOTOLUX Zoom luminaires, designers and users can create dynamic lighting scenario and precisely focus the light beam on specific zone or objects. The Zoom option is also the ideal solution to deliver to the floor a higher quantity of lux.

Zoom Spotlights



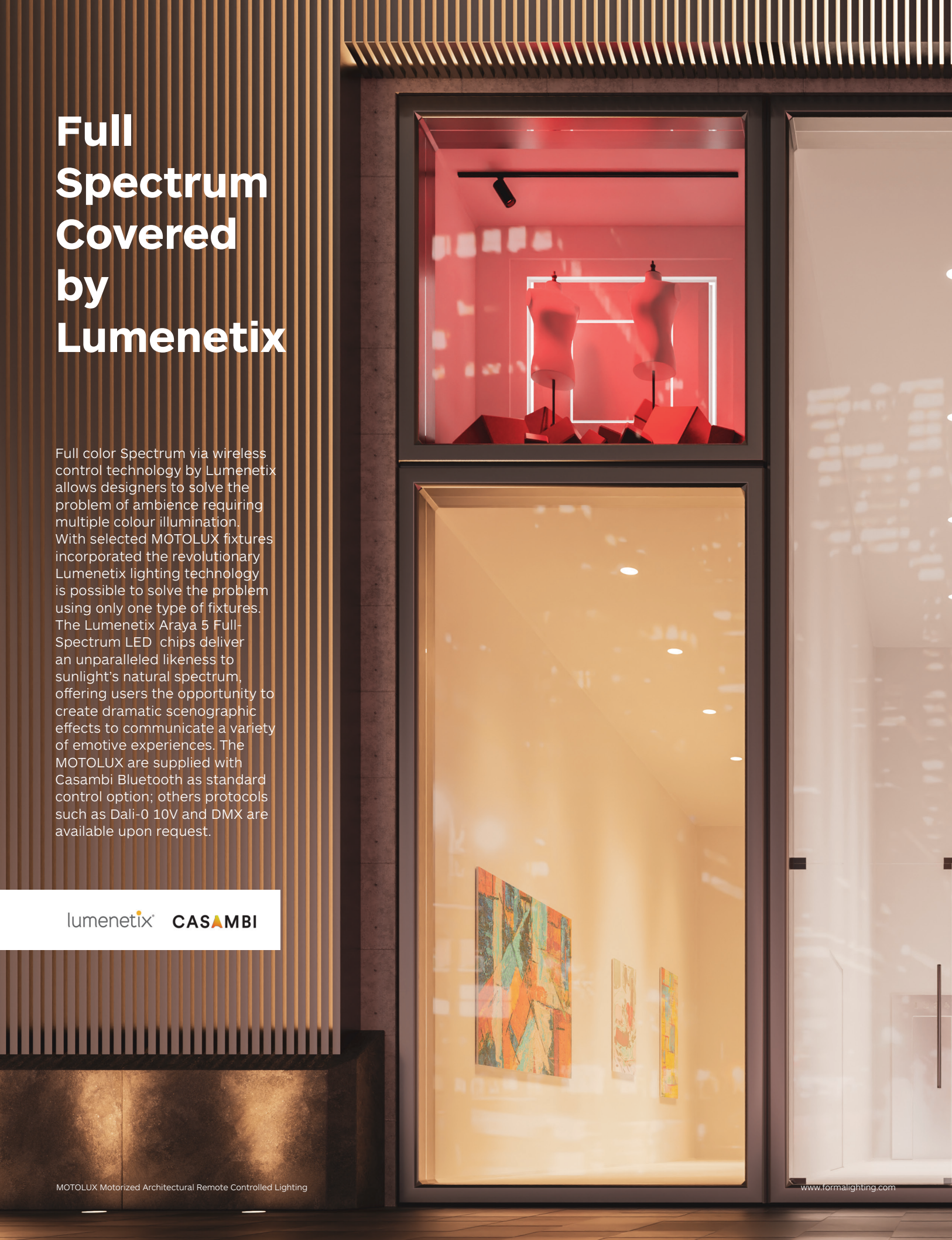
Zoom Spot 07° - 18°

Zoom Spot 10° - 35°

Full Spectrum Covered by Lumenetix

Full color Spectrum via wireless control technology by Lumenetix allows designers to solve the problem of ambience requiring multiple colour illumination. With selected MOTOLUX fixtures incorporated the revolutionary Lumenetix lighting technology is possible to solve the problem using only one type of fixtures. The Lumenetix Araya 5 Full-Spectrum LED chips deliver an unparalleled likeness to sunlight's natural spectrum, offering users the opportunity to create dramatic scenographic effects to communicate a variety of emotive experiences. The MOTOLUX are supplied with Casambi Bluetooth as standard control option; others protocols such as Dali-0 10V and DMX are available upon request.

lumenetix CASAMBI



MOTOLUX powered by Lumenetix engine are able to deliver perfectly mixed white light, using five different colours channel of high, broad spectrum, brightness, none of which is white. The delivered light is 2 SCDM about the Planckian curve at 90+ CRI across the tuning range. MOTOLUX Lumenetix provides unique and different lighting solutions for each and every requirement.
One fixture, one room...one building.

formalighting

Areas of Application

Museums / Galleries

Related products

Moto-Zero Low Voltage Track
Moto-Zero Zoom Low Voltage Track
Moto-Zero Compasso Main Voltage Track
Moto-Zero Zoom Main Voltage Track
Moto-Zero Main Voltage Track
Moto-Ola
Moto-Zero In & Out
Moto-Gimbalo Pendant

Banquets Hall

Related products

Moto-Zero Low Voltage Track
Moto-Zero Zoom Low Voltage Track
Moto-Zero Compasso Main Voltage Track
Moto-Zero Zoom Main Voltage Track
Moto-Zero Main Voltage Track
Moto-Ola
Moto-Combo
Moto-Palla In & Out
Moto-Colosseo
Moto-Gimbalo
Moto-MultiGimbalo
Moto-Gimbalo Surface
Sistema Moto-MultiGimbalo

Shop Windows & Retail

Related products

Moto-Zero Low Voltage Track
Moto-Zero Zoom Low Voltage Track
Moto-Zero Compasso Main Voltage Track
Moto-Zero Zoom Main Voltage Track
Moto-Zero Main Voltage Track
Moto-Ola
Moto-Palla In & Out
Moto-Colosseo
Moto-Gimbalo
Moto-MultiGimbalo
Moto-Gimbalo Surface
Sistema Moto-MultiGimbalo

High ceiling

Related products

Moto-Zero Low Voltage Track
Moto-Zero Zoom Low Voltage Track
Moto-Zero Compasso Main Voltage Track
Moto-Zero Zoom Main Voltage Track
Moto-Zero Main Voltage Track
Moto-Ola
Moto-Combo
Moto-Venus
Moto-Zero In & Out
Moto-Palla In & Out
Moto-Colosseo
Moto-Gimbalo
Moto-MultiGimbalo
Moto-Gimbalo Surface
Sistema Moto-MultiGimbalo

Hospitality / Resturants

Related products

Moto-Zero Low Voltage Track
Moto-Zero Zoom Low Voltage Track
Moto-Zero Compasso Main Voltage Track
Moto-Zero Zoom Main Voltage Track
Moto-Zero Main Voltage Track
Moto-Ola
Moto-Flap
Moto-LineaVolo

High end residentials / Living spaces

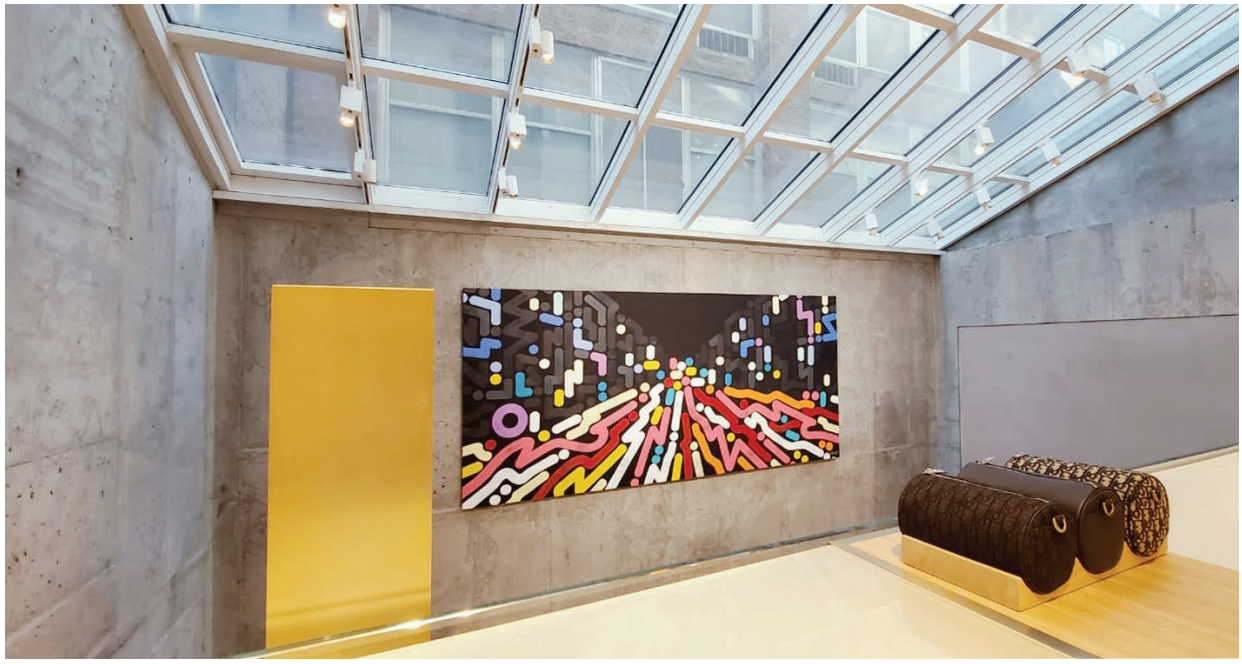
Related products

Moto-Zero Low Voltage Track
Moto-Zero Zoom Low Voltage Track
Moto-Zero Compasso Main Voltage Track
Moto-Zero Zoom Main Voltage Track
Moto-Zero Main Voltage Track
Moto-Ola
Moto-Venus
Moto-Palla In & Out
Moto-Colosseo
Moto-Flap
Moto-Gimbalo Pendant
Sistema Moto-MultiGimbalo
Moto-LineaVolo

Project References

Since the 2016 series launch, over 18,000 Motolux fixtures have been installed in over 300 different projects around the world. Motolux's technologically advanced, remote controlled motorized lighting fixtures deliver the most flexible and reliable solutions for a wide range of projects and applications for Hospitality, Retail, Museums, Art Galleries, Restaurants and many more.

Retail



Retail space.
New York.

Banquets Hall

Banquets Hall.
Dubai.

Hospitality

Restaurant.
Macau.

Museums / Art Galleries

Art Gallery Project.
Manila.

MOTOLUX for 48V Low Voltage Track System

Moto Zero's family of remote controlled motorized track lighting is now including specific 48V versions, which offering all the advantage of low-Voltage luminaire.

The fixtures, which include an integrated 48V track adapter, offer all the benefits of the remote controlled MOTOLUX motorized architectural lighting. Moto-Zero LV is available in 3 sizes with aluminium light head diameter of 40mm-66-mm and 100mm. its Zoom version is available in 2 sizes 40mm and 80mm.

Pan + Tilt + Zoom
Two silent DC motors drive the 0-90° tilt and 0- 360° pan movements of the fixture. A third motor enables a high précised focus of the light beam in a range between 12°-45°. The movements and bean shaping of the fixtures, as well as the intensity and the white colour tuning of the light, are controlled via remote control CASAMBI™ application.

2020
product
release

formalighting

MOTOLUX

Motorized Remote Controlled Lighting

Motorized Architectural Lighting

formalighting

Moto-Zero Low Voltage

40 | 68 | 100 Low Voltage Track

Body

Motorized track mounted 48V low voltage spotlight with light head and mounting arm in cast aluminium.
Moto-Zero 48V low voltage is available in 3 different light head diameters 40mm and 68mm and 100mm.

The integrated track adapter is compatible with different models of Stucchi low voltage track system. Easy to insert and remove from the track. Two DC motors drive the movements of the fixture, which is tiltable vertically up to 90° and rotatable horizontally 330°.

The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

Accessories

Moto-Zero 68 & 100: honeycomb louvre.
For more information about accessories see page 82 and for low voltage track accessories see page 84-89.

Finish

Powder coat in black or white colour.

LED sources

COB LED. High Power LED. Lumenetix Full Spectrum (68).
COB Tuneable White (40, 100).
CRI: 90 | CCT: 3000K, 4000K, Full Spectrum (68).
Other CRI and CCT options available on request.

Optic

Lens or Reflector (only for Moto-Zero 68 TW).
Super narrow (7°), narrow, medium and wide beam angle available.

Driver

48V input integrated.
Motion Control: Casambi.
Dimming Options: Casambi.
Colour Tuning: Casambi.
Power supply unit to be ordered separately, see page 90.

Applications

The 48V Low Voltage evolution of the Moto-Zero Compasso. Easy to install and to control, a versatile spotlight ideal for retail and museum applications.
Application areas: retail, museums, hospitality, residential, lobbies.

Compatible with Low Voltage Track Types

Please see P.84-85 for details

2ST1

Surface Track

2ST6

Surface Track
Pendant Track

2ST7

Pendant Track
For Up Side

2ST8

Recessed Track
Trim

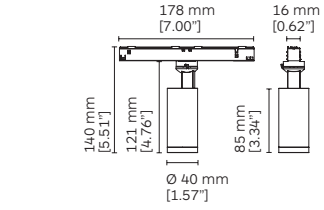
2ST3

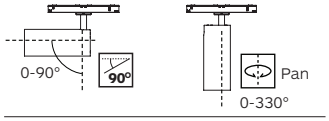
Recessed Track
Trimless

Moto-Zero Low Voltage Track

Moto-Zero Low Voltage 40

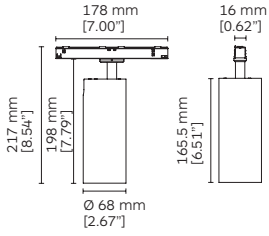
Low Voltage Track





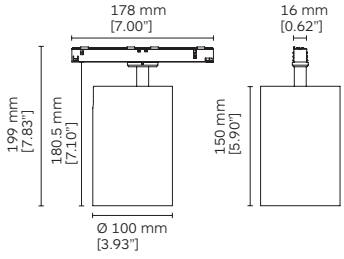
Moto-Zero Low Voltage 68

Low Voltage Track



Moto-Zero Low Voltage 100

Low Voltage Track



Code ordering example: **M901 BC31 - 90 30 16 DC 10**

	Product Code	Light Source Code*		>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Moto-Zero Low Voltage 40	**M901**	**BC31**	COB LED	**90**	**30** 3000K	6W	664 lm	**16 / 26 / 36**	**DC** CASAMBI	**10** ■ Black
					40 4000K		722 lm			**11** □ White
		BR21	High Power LED			4W	439 lm	**07 / 24 / 36**		
							483 lm			
		BU11	TW COB LED		**TW** 2700-6500K	7W	710 lm	**18 / 28 / 40**		
Moto-Zero Low Voltage 68	**M902**	**BC22**	COB LED	**90**	**30** 3000K	12W	1550 lm	**16 / 25 / 36**		
					40 4000K		1570 lm			
		BR21	High Power LED			6W	530 lm	**05**		
							580 lm			
		BL22	Lumenetix[1]	**90**	**FS** Full Spectrum	18W	750 lm	**18 / 25 / 33**		
		IU21	TW COB LED		**TW** 2700-6500K	13W	1290 lm	**16 / 25 / 48**		
Moto-Zero Low Voltage 100	**M903**	**BC33**	COB LED	**90**	**30** 3000K	25W	2760 lm	**12 / 22 / 32**		
					40 4000K		3000 lm			
		BR21	High Power LED			21W	1862 lm	**07 / 24 / 36**		
							1920 lm			

Notes:

* For complete code ordering information, please see page 97.

For related accessories, please see page 82-83 & 84-89.

** For other CCT options, please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

Moto-Zero Zoom Low Voltage

40 | 80 Low Voltage Track

Body

Motorized track mounted 48V low voltage spotlight with light head and mounting arm in cast aluminium. Moto-Zero Zoom 48V low voltage is available in 2 different light head diameters: 40mm and 80mm. The integrated track adapter is compatible with different models of Stucchi low voltage track system.

Easy to insert and remove from the track. Two DC motors drive the movements of the fixture, which is tiltable vertically up to 90° and rotatable horizontally 350°. A third motor controls a special lens, which allows the user to shape the light beam from narrow to wide diffuse.
The movements and the beam shaping of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

Accessories

For more information about low voltage track accessories see page 84-89.

Finish

Powder coat in black or white colour.

LED sources

High Power LED. (40). COB LED (80). Lumenetix Full Spectrum (80).
CRI: 90 | CCT: 3000K, 4000K, Full Spectrum (80).
Other CRI and CCT options available on request.

Optic

Lens.
Adjustable beam angle .

Driver

48V input integrated.
Motion Control: Casambi.
Dimming Options: Casambi.
Colour Tuning: Casambi.
Power supply unit to be ordered separately, see page 90.

Applications

The 48V Low Voltage evolution of the Moto-Zero Zoom. Easy to install and to control, the fixture enable users to focus on a narrow to wide spot at the touch of a button. Application areas: retail, museums, hospitality, residential, lobbies.

Compatible with Low Voltage Track Types

Please see P.84-85 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST7
Pendant Track
For Up Side

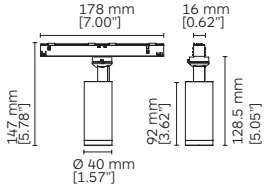
2ST8
Recessed Track
Trim

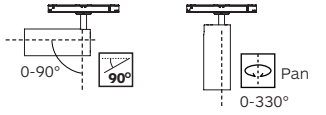
2ST3
Recessed Track
Trimless

Moto-Zero Zoom
Low Voltage Track

Moto-Zero Zoom Low Voltage 40

Low Voltage Track

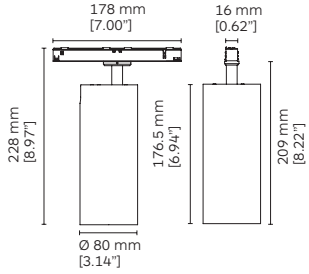




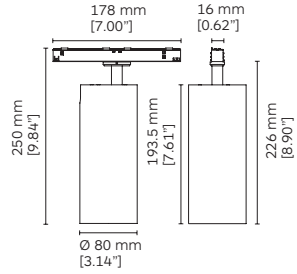
Moto-Zero Zoom Low Voltage 80

Low Voltage Track

BC31



BL22



Code ordering example: **M904 BR21 - 90 30 BS DC 10**

	Product Code	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Moto-Zero **Zoom** Low Voltage 40	**M904**	**BR21** High Power LED	**90**	**30** 3000K	4W	439 lm	**BS** (13° - 35°)	**DC** CASAMBI	**10** ■ Black
				40 4000K		483 lm			**11** □ White
Moto-Zero **Zoom** Low Voltage 80	**M905**	**BC31** COB LED	**90**	**30** 3000K	14W	1410 lm	**BS** (12° - 45°)[2]		
				40 4000K		1540 lm			
		BL22 Lumenetix[1]	**90**	**FS** Full Spectrum	18W	750 lm	**BS** (15° - 45°)[2]		

Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 84-89.

** For other CCT options, Tuneable White (**TW**) version please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

BS: Beam shaping.

[2]Wide angle donotes as field angels.

Motolux for Main Voltage Lighting

formalighting

Moto-Zero Compasso

40 | **68** | **100**

Body

Motorized track mounted spotlight with light head and mounting arm in cast aluminium. **Moto-Zero Compasso** is available in 3 different light head diameters: 40mm, 68mm and 100mm. **Moto-Zero Compasso Zoom** is available in 4 diameters: 40mm. 68mm, 80mm and 130 mm.
The integrated track adapter with built-in driver is compatible with 3 phase eurotype track.
Two DC motors drive the movements of the fixtures, tilting them vertically up to 90° and rotating horizontally 315°.
For the Moto-Zero Zoom series, a third motor controls a special lens, which allows the user to shape the light beam from narrow to wide diffuse.

The movements and the beam shaping of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

Accessories

Moto-Zero Compasso 68: Honeycomb louvre, Visor, Snoot. **Moto-Zero Zoom 130**: Honeycomb louvre.
For more information about accessories see page 82 and for track accessories see page 92-93.

Finish

Powder coat in black or white colour.

LED sources

Moto Zero Compasso*:* COB LED. High Power LED. Lumenetix Full Spectrum (68). COB Tuneable White (40, 68). CRI: 90 | CCT: 3000K, 4000K, Tuneable White (40, 68), Full Spectrum (68). **Moto-Zero Zoom**: High Power LED. (40). COB LED (68, 80, 130). Lumenetix Full Spectrum (80), Tuneable White (130). CRI: 90 | CCT: 3000K, 4000K, Full Spectrum (80), Tuneable White (130).

Optic

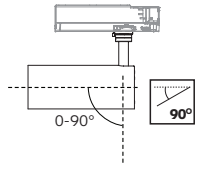
Lens or Reflector (only for Moto-Zero Compasso 68 TW). Super narrow (7°), narrow, medium and wide beam angle available. **Moto-Zero Zoom** series: special lenses with beam-shaping technology.

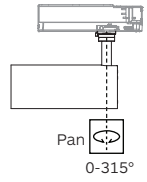
Driver

Dimmable, In track adapter integrated driver
220-240VAC 50/60hz.
Motion Control: Casambi.
Dimming Options: Casambi.
Colour Tuning: Casambi.

Applications

A tiny and versatile spotlight ideal for applications where the distance between ceiling and spot is an issue. The Moto-Zero Zoom series is the ideal solution for museum and retail application. The fixture enable users to focus on a narrow to wide spot at the touch of a button.
Application areas: retail, museums, hospitality, residential, lobbies.

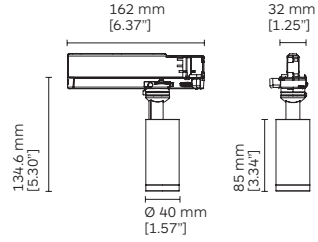




Moto-Zero Compasso

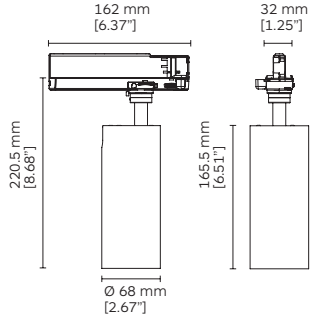
Moto-Zero Compasso 40

Compasso Main Voltage Track



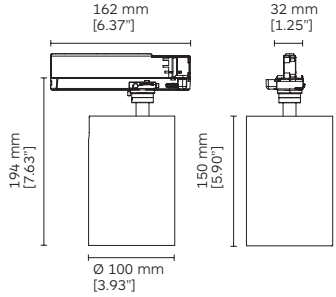
Moto-Zero Compasso 68

Compasso Main Voltage Track



Moto-Zero Compasso 100

Compasso Main Voltage Track



Code ordering example: **M639 BC31 - 90 30 16 DC 10**

	Product Code	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Moto-Zero Compasso 40	**M639**	**BC31** COB LED	**90**	**30** 3000K	6W	664 lm	**16 / 26 / 36**	**DC** CASAMBI	**10** ■ Black
				40 4000K		722 lm			**11** □ White
		BR21 High Power LED			4W	439 lm	**07 / 24 / 36**		
						483 lm			
		BU11 TW COB LED		**TW** 2700-6500K	7W	710 lm	**18 / 28 / 40**		
Moto-Zero Compasso 68	**M665**	**BC22** COB LED	**90**	**30** 3000K	12W	1550 lm	**16 / 25 / 36**		
				40 4000K		1570 lm			
		BR21 High Power LED			6W	530 lm	**05**		
						580 lm			
		BL22 Lumenetix[1]	**90**	**FS** Full Spectrum	18W	750 lm	**18 / 25 / 33**		
		IU21 TW COB LED		**TW** 2700-6500K	13W	1290 lm	**16 / 25 / 48**		
Moto-Zero Compasso 100	**M666**	**BC33** COB LED	**90**	**30** 3000K	25W	2760 lm	**12 / 22 / 32**		
				40 4000K		3000 lm			
		BR21 High Power LED			21W	1862 lm	**07 / 24 / 36**		
						1920 lm			

Notes:

* For complete code ordering information, please see page 97.

For related accessories, please see page 82-83.

** For other CCT options, please contact us.

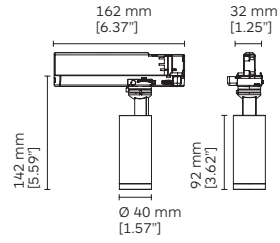
[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

Moto-Zero Zoom

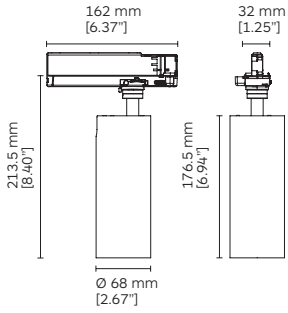
Moto-Zero Compasso Zoom 40

Main Voltage Track



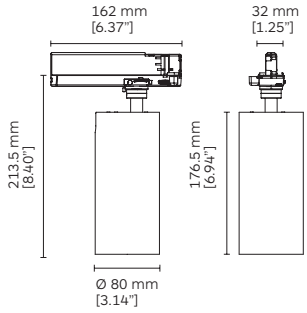
Moto-Zero Compasso Zoom 68

Main Voltage Track



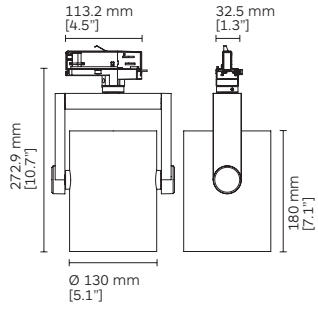
Moto-Zero Compasso Zoom 80

Main Voltage Track



Moto-Zero Zoom 130

Main Voltage Track



Code ordering example: **M667 BR21 - 90 30 BS DC 10**

	Product Code	Light Source Code*		>CRI	CCT**		LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Moto-Zero Compasso **Zoom** 40	**M667**	**BR21**	High Power LED	**90**	**30**	3000K	4W	439 lm	**BS** (11° - 35°)	**DC** CASAMBI	**10** ■ Black
					40	4000K		483 lm			**11** □ White
Moto-Zero Compasso **Zoom** 68	**M668**	**BC31**	COB LED	**90**	**30**	3000K	14W	1410 lm	**BS** (10° - 30°)[2]		
					40	4000K		1540 lm			
Moto-Zero Compasso **Zoom** 80	**M669**	**BC31**	COB LED	**90**	**30**	3000K	14W	1410 lm	**BS** (10° - 38°)[2]		
					40	4000K		1540 lm			
		BL22	Lumenetix[1]		**FS**	Full Spectrum	18W	750 lm	**BS** (15° - 45°)[2]		
Moto-Zero **Zoom** 130	**M670**	**BN21**	COB LED	**95**	**30**	3000K	30W	2870 lm	**BS** (07° - 18°)		
					40	4000K		3110 lm			
		BB31	TW COB LED	**90**	**TW**	2700-6500K	26W	2710 lm	**BS** (13° - 20°)		

Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.

** For other CCT options, please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

BS: Beam shaping.

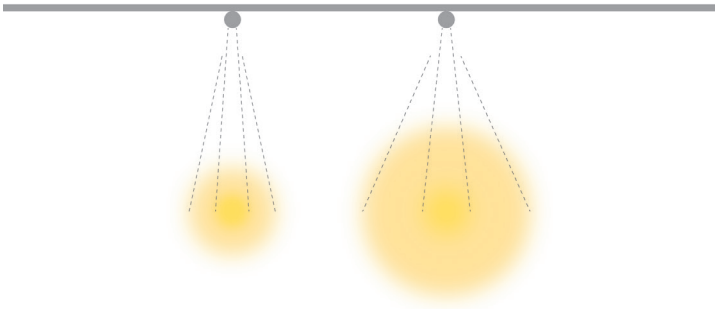
[2]Wide angle donotes as field angels.

Every. Angle. Covered.

Narrow Spot Illumination

Diffuse Illumination

Zoom Spotlights



Zoom Spot 07° - 18°

Zoom Spot 10° - 35°

Moto-Zero Zoom, the latest novelty from the award-winning MOTOLUX range, is the ideal lighting solution for spaces with soaring ceilings, that also require frequent scene changes.

Using the formalighting app powered by CASAMBI, the fixture's beam angle can be changed within a range of 7 to 45 degrees. A change in beam angle may also require the light to be re-directed or modify its intensity, so the same app controls the pan (355°), tilt (90°) and diming of the Moto-Zero Zoom.

Moto-Zero Zoom is available in 4 different sizes (lighthead diameter of 40cm, 66cm, 80cm, 130cm) and with specific high Color Rendering option (CRI 97+, R9 90+). The range will soon be available in a low voltage track version.

Thanks to MOTOLUX technology, designers can create and save light scenes which may be programmed to change automatically at specified times, as the fixtures move and re-focus the light without the use of ladders or scaffolds.

Moto-Zero

66 | **100** | **130** | **Zoom 66**

Body

Motorized track mounted spotlight with light head and control gear box in cast aluminium. Moto-Zero is available in 3 different light head diameters: 66mm, 100mm and 130mm. The fixtures are inclusive of adapter compatible with 3 phase eurotype track.
The control gearbox is available in two different shapes, D and S. Check page 93 for more details about gearboxes. Two DC motors drive the movements of the fixture, tilting them vertically up to 90° in two directions and rotating them horizontally 350°. Moto-Zero 66 Zoom: a third motor controls a special lens, which allows the user to shape the light beam from narrow to wide diffuse.

The movements and the beam shaping of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

Accessories

Linear spread, honeycomb louvre, Visor, Snoot.
For more information about accessories see page 82 and for track accessories see page 92-93.

Finish

Powder coat in black or white colour.

LED sources

COB LED. High Power LED. Lumenetix Full Spectrum. Tuneable White. RGBW (130).
CRI: 90 | CCT: 3000K, 4000K, Full Spectrum, Tuneable White.
Other CRI and CCT options available on request.

Optic

Lens or Reflector (according with the chosen model/light source).
Super narrow (7°), narrow, medium and wide beam angle available.

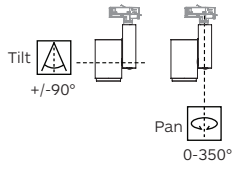
Driver

Dimmable driver integrated in the gear box.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI, DMX.
Colour Tuning: Casambi, DMX.

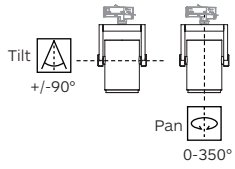
Applications

A stylish motorized spotlight created for the purpose to meet the highest requirements of the most advanced lighting technology.
Application areas: retail, museums, hospitality, offices.

Moto - Zero 66 / 100
Moto - Zero Zoom 66



Moto - Zero 130



Moto-Zero 66 &
Moto-Zero Zoom 66

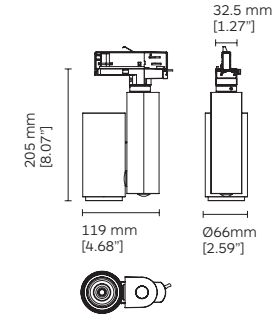
Moto-Zero 66

Main Voltage Track

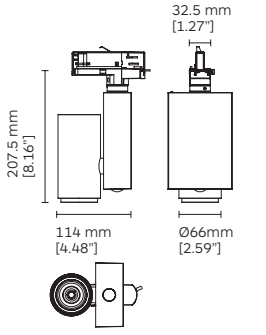
Moto-Zero Zoom 66

Main Voltage Track

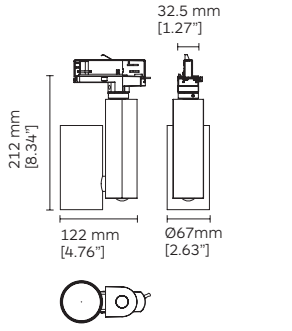
Gear Box Type D **(D)**



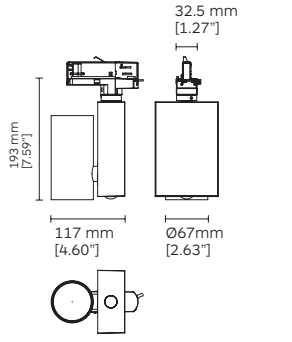
Gear Box Type S **(S)**



Gear Box Type D **(D)**



Gear Box Type S **(S)**



with Gear Box Type (D)

with Gear Box Type (S)

Code ordering example: **M 6 2 1 I C 3 2 - 9 0 3 0 1 5 D L 1 0**

	Product code	Light source code*		>CRI	CCT**		LED Power	Nominal Lumen	Beam angle (BA°)	Driver & Box Type Options D	S		Finish
Moto - Zero 66	**M621**	**IC32**	COB LED	**90**	**30**	3000K	26W	2450 lm	**15 / 23 / 45**	**DL**		Laser Dim	**10** ■ Black
					40	4000K		2550 lm		**DC**		CASAMBI	**11** □ White
		BR21	High Power LED				6W	530 lm	**05**		**SA**	DALI Dim	
								580 lm		**D1**		0 - 10 Dim	
											SX	DMX	
		BL22	Lumenetix[1]		**FS**	Full Spectrum	18W	750 lm	**18 / 25 / 33**	**DC**	**SC**	CASAMBI	
		IU21	TW COB LED		**TW**	2700-6500K	13W	1290 lm	**16 / 25 / 48**				
Moto - Zero **Zoom** 66	**M641**	**BC31**	COB LED	**90**	**30**	3000K	14W	1410 lm	**BS** (10° - 30°)[2]	**DC**		CASAMBI	
					40	4000K		1540 lm			**SA**	DALI Dim	
										D1		0 - 10 Dim	
											SX	DMX	

Notes:

* For complete code ordering information, please see page 97.

For related accessories, please see page 82-83.

** For other CCT options, Tuneable White (**TW**) version please contact us. For Tuneable White (**TW**) option, the type of driver box is always Square shape (**S**).

BS: Beam shaping. [2]Wide angle donotes as field angels.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

Pan/tilt/zoom control by Casambi app. Dim options: Casambi app or 0-10V / DALI / DMX by main control system .

Moto-Zero 100 & Moto-Zero 130

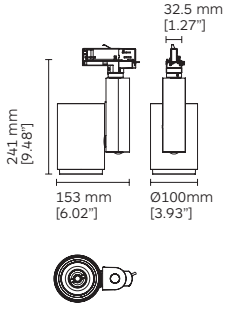
Moto-Zero 100

Main Voltage Track

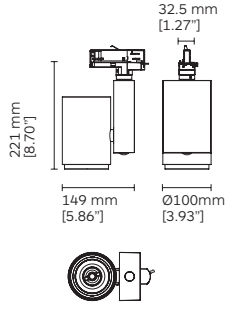
Moto-Zero 130

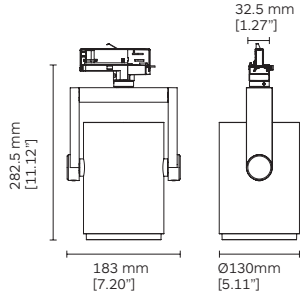
Main Voltage Track

Gear Box Type D **(D)**



Gear Box Type S **(S)**





with Gear Box Type (D) *with Gear Box Type (S)*

Code ordering example: **M620 IC33 - 90 30 12 DC 10**

	Product code	Light source code*		>CRI	CCT**		LED Power	Nominal Lumen	Beam angle (BA°)	Driver & Box Type Options D	S		Finish
Moto - Zero 100	**M620**	**IC33**	COB LED	**90**	**30**	3000K	33W	3290 lm	**12 / 27 / 55**	**DC**		CASAMBI	**10** ■ Black
					40	4000K		3430 lm			**SA**	DALI Dim	**11** □ White
		BR21	High Power LED				21W	1862 lm	**07 / 24 / 36**	**D1**		0 - 10 Dim	
								1920 lm			**SX**	DMX	
		BL23	Lumenetix[1]		**FS**	Full Spectrum	25W	950 lm	**12 / 19 / 28**	**DC**	**SC**	CASAMBI	
		IU31	TW COB LED		**TW**	2700-6500K	25W	2400 lm	**20 / 29 / 41**				
Moto - Zero 130	**M619**	**IC34**	COB LED	**90**	**30**	3000K	43W	4480 lm	**10 / 18 / 42**		**DL**	Laser Dim	
					40	4000K		4670 lm			**DC**	CASAMBI	
		BR21	High Power LED				29W	2780 lm	**07 / 24 / 36**		**DA**	Dali Dim	
								2910 lm			**D1**	0-10 Dim	
		BE31	RGBW		**RG**	BW	34W	2320 lm	**12 / 24 / 36**		**DX**	DMX	
		BL35	Lumenetix[1]		**FS**	Full Spectrum	50W	2600 lm	**26 / 31 / 36**		**DC**	CASAMBI	
		BU81	TW High Power LED		**TW**	2700-6500K	33W	3260 lm	**20 / 30 / 40**				

Notes:

* For complete code ordering information, please see page 97.

For related accessories, please see page 82-83.

** For other CCT options, please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

Product Name: Moto-Zero
Location of Project: Opera Gallery, Hong Kong

Moto-Ola

Body

Motorized track mounted spotlight with light head and control gear box in cast aluminium. Moto-Ola is available in 2 light head diameters: 100mm and 130mm. The fixtures are inclusive of adapter compatible with 3 phase eurotype track.
The control gearbox is available in two different shapes, D and S, too fit different type of drivers. Check page 93 for more details about the dimensions and the details of the control gearboxes.

Two DC motors drive the movements of the fixture, tilting them vertically up to 90° in two directions and rotating them horizontally 350°. The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

Accessories

For more information about track accessories see page 92-93.

Finish

Powder coat in black and white colour.

LED sources

COB LED. High Power LED. Lumenetix Full Spectrum.
CRI: 90, 95 (100) | CCT: 3000K, 4000K, Full Spectrum.
Other CRI and CCT options available on request.

Optic

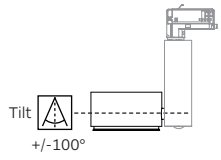
Lens.
Narrow, medium and wide beam angle available.
Moto-Ola 130 available in wallwasher version.

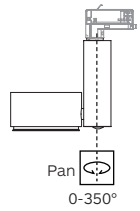
Driver

Dimmable driver integrated in the gear box.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI, DMX.
Colour Tuning: Casambi, DMX.

Applications

A chic and alluring light fixture, created by formalighting's passionate designers. The MOTOLUX technology permit to promptly adapt the light to any scene change.
Application areas: museums, hotels, restaurants, retail.





Moto-Ola

Moto-Ola 100 BC33

Main Voltage Track

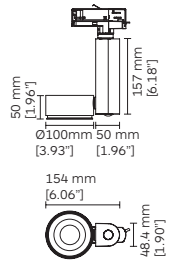
Moto-Ola 130 BC33

Main Voltage Track

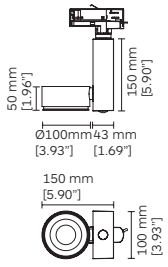
Moto-Ola 130 BR21

Main Voltage Track

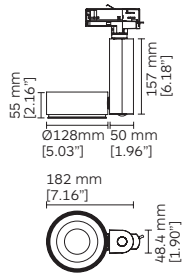
Gear Box Type D **(D)**



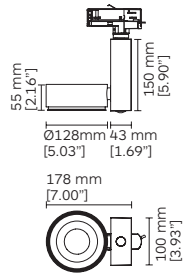
Gear Box Type S **(S)**



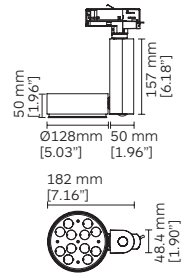
Gear Box Type D **(D)**



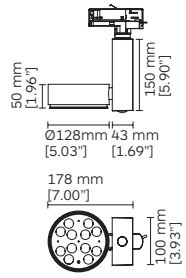
Gear Box Type S **(S)**



Gear Box Type D **(D)**



Gear Box Type S **(S)**



Code ordering example: **M 6 3 7 B C 3 3 - 9 0 3 0 1 5 D L 1 0**

	Product code	Light source code*		>CRI	CCT**		LED Power	Nominal Lumen	Beam angle (BA°)	Driver & Box Type Options D	S		Finish
Moto - Ola 100	**M637**	**BC33**	COB LED	**90**	**30**	3000K	17W	1934 lm	**15 / 24 / 37**	**DL**		Laser Dim	**10** ■ Black
					40	4000K		2041 lm		**DC**		CASAMBI	**11** □ White
		BR21	High Power LED	**90**	**30**	3000K	21W	1862 lm	**07 / 24 / 36**		**SA**	DALI Dim	
					40	4000K		1920 lm		**D1**		0 - 10 Dim	
											SX	DMX	
		BL22	Lumenetix[1]	**90**	**FS**	Full Spectrum	18W	750 im	**18 / 25 / 34**	**DC**		CASAMBI	
										DX		DMX	
Moto - Ola 130	**M622**	**BC33**	COB LED	**90**	**30**	3000K	25W	2760 lm	**12 / 22 / 32**	**DL**		Laser Dim	
					40	4000K		3000 lm		**DC**		CASAMBI	
		BR21	High Power LED	**90**	**30**	3000K	29W	2780 lm	**07 / 24 / 36**		**SA**	DALI Dim	
					40	4000K		2910 lm		**D1**		0 - 10 Dim	
		BR11	High Power LED	**90**	**30**	3000K	24W	2550 lm	**10 / 23 / 46 / WW**		**SX**	DMX	
					40	4000K		2730 lm					
		BL23	Lumenetix[1]	**90**	**FS**	Full Spectrum	25W	950 im	**11 / 19 / 28**	**DC**		CASAMBI	
										DX		DMX	

Notes:

* For complete code ordering information, please see page 97.

** For other CCT options, Tuneable White (**TW**) version please contact us. For Tuneable White (**TW**) option, the type of driver box is always Square shape (**S**).

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

WW: Wallwasher

PATENTED

Moto-Polaris

Body

Motorized track mounted spotlight with light body and light heads housing in cast aluminium. Light heads inclusive of integrated diamond faceted no-dazzle screen in thermoplastic to meet greater visual comfort and high light efficiency.
Moto-Polaris is available in 2 two different configuration with 8 or 12 light heads. The fixtures are inclusive of adapter compatible with 3 phase eurotype track. Two DC motors drive the movements of the fixtures, tilting them vertically up to 100° in two directions and rotating them horizontally 350°.

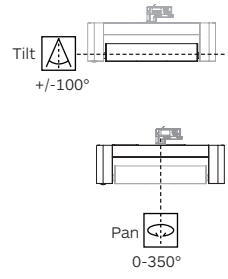
The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application

LED sources

High Power LED. CRI: 90 | CCT: 3000K, 4000K. Other CRI and CCT options available on request.

Optic

Reflector.
Medium and wide beam angle available.



Accessories

For more information about track accessories see page 92-93.

Driver

Integrated dimmable driver.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI, DMX.

Finish

Powder coat in black and white colour.

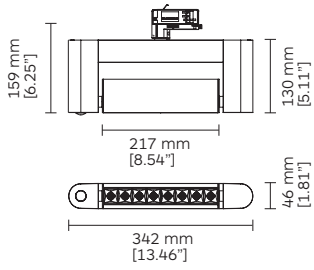
Applications

An innovative solution for high brilliance and performance.
The MOTOLUX technology allow to oriented the light where is needed.
Application areas: museums, conference rooms, hotels, restaurants, retail.

Moto-Polaris

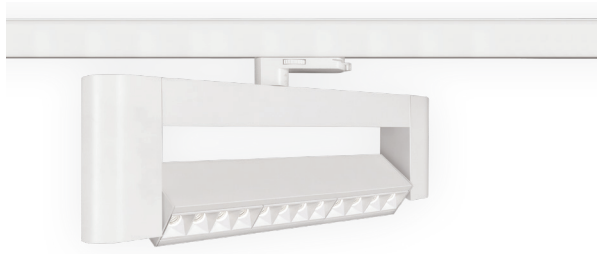
Moto - Polaris

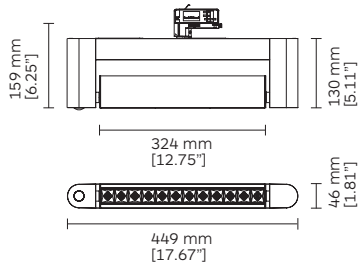
Main Voltage Track with 8 LEDs



Moto - Polaris

Main Voltage Track with 12 LEDs





Code ordering example: **M618 BO11** - **90 30 34 DL 10**

	Product code	Light source code*	>CRI	CCT**	LED Power	Norminal Lumen	Beam angle (BA°)	Driver Options	Finish
Moto-Polaris with 8 LEDs	**M618**	**BO11** High Power LED	**90**	**30** 3000K	8x2W	1520 lm	**34 / 50**	**DL** Laser-Dim	**10** ■ Black
				40 4000K		1920 lm		**DC** CASAMBI	**11** □ White
Moto-Polaris with 12 LEDs	**M617**				12x2W	2280 lm		**DS** Scene by CASAMBI	
						2880 lm			

Notes:

* For complete code ordering information, please see page 97.

** For other CCT options, Tuneable White (**TW**) version please contact us.

Moto-Combo & Moto-Combo Zoom

Body

Motorized round recessed luminaire with mounting trim and light head made of cast aluminium. Fixture body made of aluminium and mounting ring of mild steel.Brackets for trim installation on ceiling thickness max. 25 mm.

Two DC motors drive the movements of the fixture, which is tiltable vertically 40° in all directions on a dual axis gimbal. A third motor controls a special lens, which allows the user to shape the light beam range between 7°-18°.

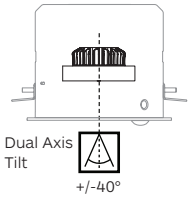
The movements and the beam shaping of the fixture, as well as the intensity and the colour tuning of the light, are controlled via LaserDim™ remote control or CASAMBI™ application.

LED sources

COB LED, High Power LED, Lumenetix Full Spectrum.
Zoom COB LED.
CRI: 90 | CCT: 3000K, 4000K, FS.
Other CRI and CCT options, Tuneable White and DimToWarm versions available on request

Optic

Lens.
Narrow, medium and wide beam angle available.
Zoom version available with a 7°-18° range.



Accessories

Honeycomb louvre.
For more information about accessories see page 83.

Driver

Supplied with remote dimmable driver.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI, DMX.
Colour Tuning: Casambi, DMX.

Finish

Powder coat in black, white and grey colour.

Applications

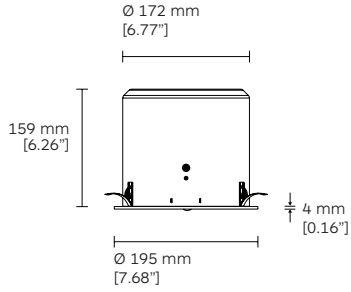
Ideal solution for festive and celebration events. Downlight designed with a concealed lamp setting offering visual comfort. The Zoom option makes Moto-Combo perfect for ambience, which need frequent reconfiguration.
Application areas: banquet halls, ballrooms, restaurants.

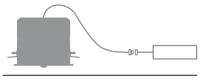
Moto-Combo & Moto-Combo Zoom

Moto-Combo & Moto-Combo Zoom

Trim ○

Ø186





Code ordering example: **M 5 3 3 A C 3 3** - 9 0 3 0 1 5 D L 1 0

	Product code	Light source code*	>CRI	CCT**	LED Power	Norminal Lumen	Beam angle (BA°)	Driver Options	Finish
Moto-Combo	**M533** ○	**AC33** COB LED	**90**	**30** 3000K	21W	2280 lm	**15 / 24 / 38**	**DL** Laser-Dim	**10** ■ Black
				40 4000K		2490 lm		**DC** CASAMBI	**11** □ White
		MR21 High Power LED			26W	2630 lm	**07 / 24 / 36**	**DA** Dali Dim	**75** ▒ Grey
						2750 lm		**D1** 0-10 Dim	
								DX DMX	
		ML22 Lumenetix[1]	**90**	**FS** Full Spectrum	18W	950 lm	**11 / 19 / 28**	**DC** CASAMBI	
								DX DMX	
Moto-Combo **Zoom**	**M590** ○	**MN21** COB LED	**90**	**30** 3000K	17W	1827 lm	**BS** (07° - 18°)	**DC** CASAMBI	
				40 4000K		1955 lm			

Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.

BS: Beam shaping.

** For other CCT options, Tuneable White (**TW**) version please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

PATENTED

Moto-Venus

Recessed Round & Square 70 | 125

Venus Concave

Venus

Body

Motorized round/square recessed luminaire with mounting trim and light body made of cast aluminium. Body aesthetic available in Flat or Concave design. The luminaire includes brackets for trim installation on ceiling thickness max. 32mm, or trimless installation (only Venus 125) on ceiling thickness max. 25mm.

Two remote controlled DC motors drive the movements of the fixture. Moto-Venus 70 is tiltable vertically 0-30° in two directions, Moto-Venus 125 is tiltable vertically 0-45°in two directions. All the fixtures are rotatable horizontally 350°.

The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

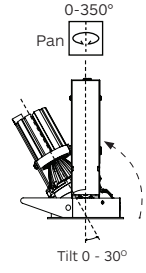
LED sources

COB LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options available on request.

Optic

Reflector + diffuser.
Narrow, medium and wide beam angle available.

Moto - Venus 70



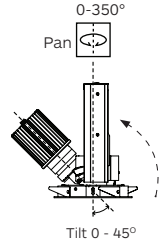
Accessories

No accessories available

Driver

Supplied with remote dimmable driver.
Motion Control: Casambi.
Dimming Options: Casambi, 0-10V, DALI.

Moto - Venus 125



Finish

Powder coat in black or white colour.

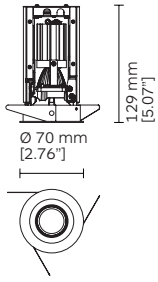
Applications

The smallest motorized recessed luminaire in the market. The MOTOLUX technology add the versatility to adapt the direction and intensity of light to any type of environment. Application areas: hotels, residential, lobbies, offices, restaurants.

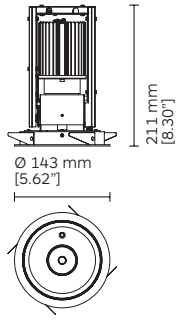
Moto-Venus Concave

IP20 | 850° | CE

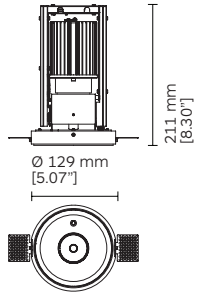
Moto-Venus Concave 70
Round Trim ●
Ø67

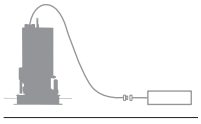


Moto-Venus Concave 125
Round Trim ●
Ø134



Moto-Venus Concave 125
Round Trimless ○
Ø134





Code ordering example: **M 5 5 8 M C 3 1** - **9 0 3 0 1 8 D C 1 0**

	Product Code	Ingress Protection	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Moto-Venus Concave 70 Round	**M558** ●	IP20	**MC31** COB LED	**90**	**30** 3000K	6W	616 lm	**18 / 24 / 32**	**DC**	CASAMBI	**10** ■ Black
					40 4000K		643 lm		**DA**	Dali Dim	**11** □ White
Moto-Venus Concave 125 Round	**M555** ●		**MC22** COB LED			22W	2418 lm	**20 / 30**	**D1**	0-10V Dim	
	M573 ○						2456 lm		**DX**	DMX	

Notes:

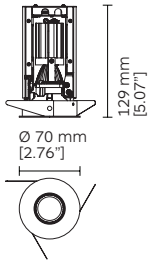
* For complete code ordering information, please see page 97.

** For other CCT options, Tuneable White (**TW**) version please contact us.

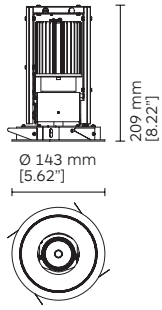
Moto-Venus

IP20 | 850° | CE

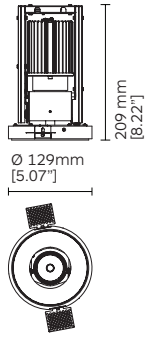
Moto-Venus 70
Round Trim ○ Ø67

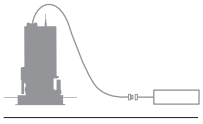


Moto-Venus 125
Round Trim ○ Ø134



Moto-Venus 125
Round Trimless ○ Ø134





Code ordering example: **M560 MC31 - 90 30 18 DC 10**

	Product Code	Ingress Protection	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Moto-Venus 70 Round	**M560** ○	IP20	**MC31** COB LED	**90**	**30** 3000K	6W	616 lm	**18 / 24 / 32**	**DC**	CASAMBI	**10** ■ Black
					40 4000K		643 lm		**DA**	Dali Dim	**11** □ White
Moto-Venus 125 Round	**M556** ○		**MC22** COB LED			22W	2418 lm	**20 / 30**	**D1**	0-10V Dim	
	M572 ○						2456 lm		**DX**	DMX	

Notes:

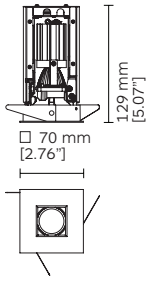
* For complete code ordering information, please see page 97.

** For other CCT options, Tuneable White (**TW**) version please contact us.

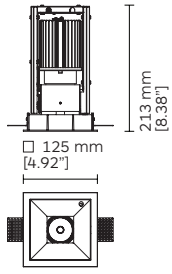
Moto-Venus Concave

IP20 | 850° | CE

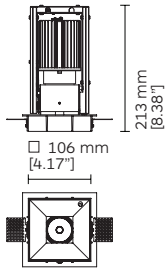
Moto-Venus Concave 70
Square Trim ■ ☐67

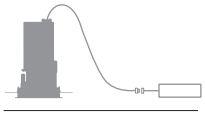


Moto-Venus Concave 125
Square Trim ■ ☐114



Moto-Venus Concave 125
Square Trimless ☐ ☐114





Code ordering example: **M559 MC31 - 90 30 18 DC 10**

	Product Code	Ingress Protection	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Moto-Venus Concave 70 Square	**M559** ■	IP20	**MC31** COB LED	**90**	**30** 3000K	6W	616 lm	**18 / 24 / 32**	**DC**	CASAMBI	**10** ■ Black
					40 4000K		643 lm		**DA**	Dali Dim	**11** ☐ White
Moto-Venus Concave 125 Square	**M554** ■		**MC22** COB LED			22W	2418 lm	**20 / 30**	**D1**	0-10V Dim	
	M575 ☐						2456 lm		**DX**	DMX	

Notes:

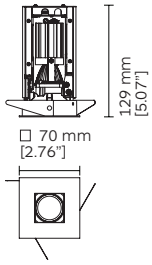
* For complete code ordering information, please see page 97.

** For other CCT options, Tuneable White (**TW**) version please contact us.

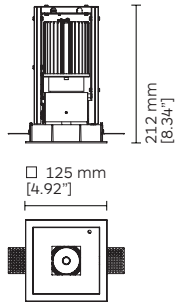
Moto-Venus

IP20 | 850° | CE

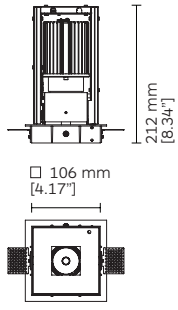
Moto-Venus 70
Square Trim ■ — ☐67

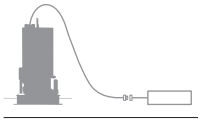


Moto-Venus 125
Square Trim ■ — ☐114



Moto-Venus 125
Square Trimless ☐ — ☐114





Code ordering example: **M559 MC31 - 90 30 18 DC 10**

	Product Code	Ingress Protection	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Moto-Venus 70 Square	**M561** ■	IP20	**MC31** COB LED	**90**	**30** 3000K	6W	616 lm	**18 / 24 / 32**	**DC**	CASAMBI	**10** ■ Black
					40 4000K		643 lm		**DA**	Dali Dim	**11** ☐ White
Moto-Venus 125 Square	**M557** ■		**MC22** COB LED			22W	2418 lm	**20 / 30**	**D1**	0-10V Dim	
	M574 ☐						2456 lm		**DX**	DMX	

Notes:

* For complete code ordering information, please see page 97.

** For other CCT options, Tuneable White (**TW**) version please contact us.

Product Name: Moto-Venus Round
Location of Project: MGM, Macao

Moto-Zero In & Out

Recessed 40 | 66

Body

Fully adjustable round recessed motorized luminaire with retractable light head. Mounting trim and light head are made of cast aluminium, recessed light housing made of painted metal. Moto-Zero In&Out is available in 2 different light head diameters: 40mm and 66mm.

The luminaire includes springs for trim installation on ceiling thickness 1-25mm. Three remote controlled DC motors drive the movements of the fixtures. The fixtures are rotatable horizontally 350° and, after full extraction of the light head, tiltable vertically up to 90°.

The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

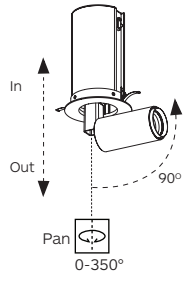
LED sources

COB LED, High Power LED, Lumenetix Full Spectrum (66), Zoom COB LED.
CRI: 90 | CCT: 3000K, 4000K, FS.
Other CRI and CCT options, Tuneable White and DimToWarm versions available on request

Optic

Lens.
Super narrow, narrow, medium and wide beam angle available.

Moto - Zero Compasso
40 / 66



Accessories

For 66 Version: linear spread, honeycomb louvre.
For more information about accessories see page 83.

Driver

Supplied with remote dimmable driver.
Motion Control: Casambi.
Dimming Options: Casambi, 0-10V, DALI, DMX.
Colour Tuning: Casambi, DMX.

Finish

Powder coat in black or white colour.

Applications

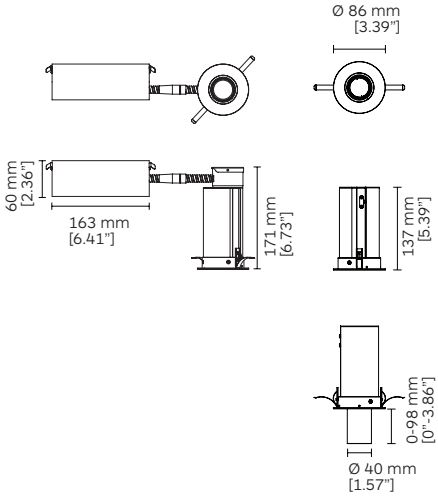
Its unique pull-down mechanism, enables it to function as either a downlight or a exposed lamp able to emulate a surface or track fixture.
Application areas: retail, hotels, museums, window displays.

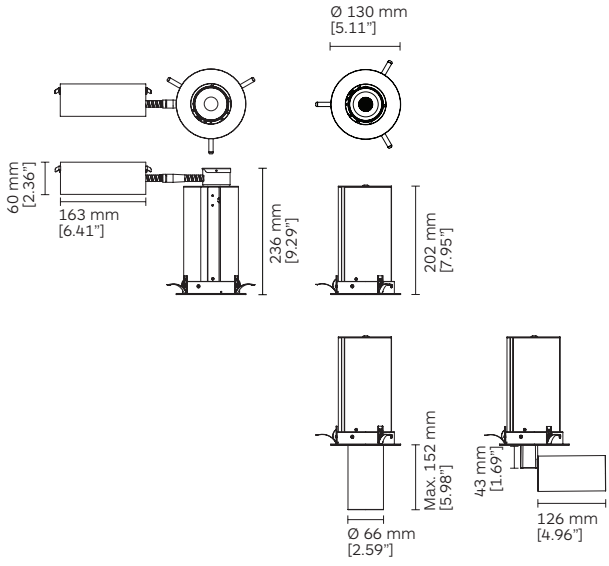
Moto-Zero In & Out

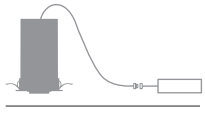
IP20

Moto-Zero 40
In & Out Trim ○ Ø78

Moto-Zero 66
In & Out Trim ○ Ø118







Code ordering example: **M562 BC31 - 90 30 16 DC 10**

	Product Code	Light Source Code*		>CRI	CCT**		LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Moto-Zero 40 In & Out	**M562** ○	**BC31**	COB LED	**90**	**30**	3000K	6W	664 lm	**16 / 26 / 36**	**DC** CASAMBI	**10** ■ Black
					40	4000K		722 lm		**DA** Dali Dim	**11** □ White
		BR21	High Power LED	**90**			4W	400 lm	**07 / 24 / 36**	**D1** 0-10V Dim	
								430 lm		**DX** DMX	
Moto-Zero 66 In & Out	**M563** ○	**BC22**	COB LED	**90**	**30**	3000K	12W	1550 lm	**16 / 25 / 36**		
					40	4000K		1570 lm			
		BR21	High Power LED	**90**			6W	532 lm	**05**		
								575 lm			
		BL22	Lumenetix[1]		**FS**	Full Spectrum	18W	750 lm	**18 / 25 / 34**	**DC** CASAMBI	
										DX DMX	

Notes:

* For complete code ordering information, please see page 97.

For related accessories, please see page 82-83.

** For other CCT options, Tuneable White (**TW**) version please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

PATENT Pending

Moto-Palla In & Out

Recessed Round & Square 70 | 100 | 130

Body

Round/square recessed motorized luminaire with retractable light head. Mounting trim and light head are made of cast aluminium, recessed light housing made of painted metal. Moto-Palla In&Out is available in 3 different light head diameters: 66mm, 100mm and 130mm.

The luminaire includes brackets for trim installation on ceiling thickness max. 25 mm or trimless installation on ceiling thickness max. 30 mm. Two remote controlled DC motors drive the movements of the fixtures. The fixtures are rotatable horizontally 350° and, tiltable vertically in two directions (0°-10° In, 0°-90° Out).

The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

Accessories

Honeycomb louvre.
For more information about accessories see page 83.

Finish

Powder coat in black or white colour.

LED sources

COB LED, High Power LED (130), Lumenetix Full Spectrum (100, 130).
CRI: 90 | CCT: 3000K, 4000K, FS.
Other CRI and CCT options, Tuneable White and DimToWarm versions available on request

Optic

Lens.
Narrow, medium and wide beam angle available.

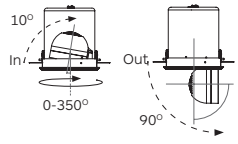
Driver

Supplied with remote dimmable driver.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI, DMX.
Colour Tuning: Casambi, DMX.

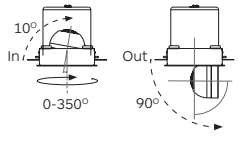
Applications

Its pull down mechanism powered by MOTOLUX technology, enables it to function either as a downlight, a regressed accent light , or a exposed lamp able to emulate a track fixture.
Application areas: retail, hotels, restaurants, offices.

Moto - Palla In & Out Round



Moto - Palla In & Out Square



Moto-Palla In & Out

Moto-Palla 70
In & Out Round Trim ● Ø120

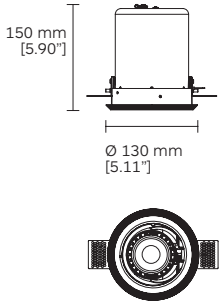
Moto-Palla 100
In & Out Round Trim ● Ø150

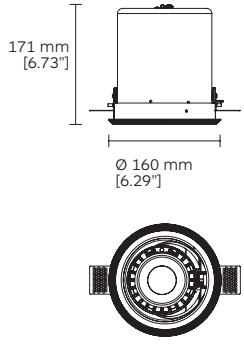
Moto-Palla 130
In & Out Round Trim ● Ø180

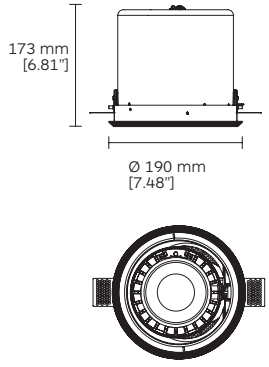
Moto-Palla 70
In & Out Round Trimless ○ Ø132

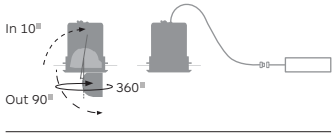
Moto-Palla 100
In & Out Round Trimless ○ Ø162

Moto-Palla 130
In & Out Round Trimless ○ Ø192









Code ordering example: **M548 BC22** - **90 30 16 DL 10**

	Product Code	Light Source Code*		>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Moto -Palla 70 In & Out Round	**M548** ●	**BC22**	COB LED	**90**	**30** 3000K	12W	1500 lm	**16 / 25 / 36**	**DL** Laser Dim	**10** ■ Black
	M549 ○				**40** 4000K		1550 lm		**DC** CASAMBI	**11** □ White
Moto - Palla 100 In & Out Round	**M550** ●	**BC33**	COB LED			21W	2200 lm	**15 / 24 / 38**	**DA** DALI	
	M551 ○						2300 lm		**D1** 0-10V Dim	
									DX DMX	
		BL22	Lumenetix[1]		**FS** Full Spectrum	18W	750 lm	**18 / 25 / 33**	**DC** CASAMBI	
									DX DMX	
Moto - Palla 130 In & Out Round	**M552** ●	**BC33**	COB LED	**90**	**30** 3000K	33W	3220 lm	**12 / 22 / 32**	**DL** Laser Dim	
	M553 ○				**40** 4000K		3300 lm		**DC** CASAMBI	
		BR21	High Power LED			21W	1862 lm	**07 / 24 / 36**	**DA** DALI	
							1920 lm		**D1** 0-10V Dim	
									DX DMX	
		BL23	Lumenetix[1]		**FS** Full Spectrum	25W	950 lm	**12 / 19 / 28**	**DC** CASAMBI	
									DX DMX	

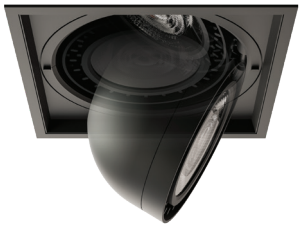
Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.

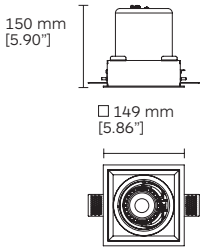
** For other CCT options, Tuneable White (**TW**) version please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.
[1] The values in the nominal lumen are referring to the peak lumen.
PATENT Pending

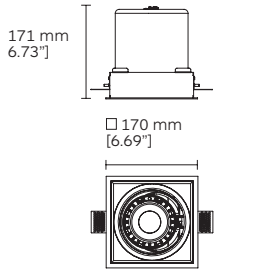
Moto-Palla In & Out



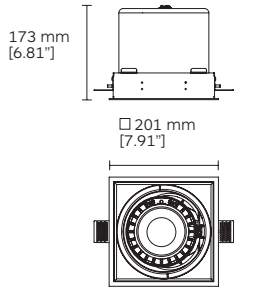
Moto-Palla 70
In & Out Square Trim ■ ☐136



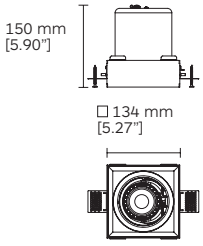
Moto-Palla 100
In & Out Square Trim ■ ☐158



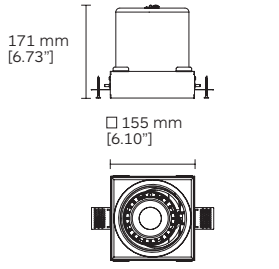
Moto-Palla 130
In & Out Square Trim ■ ☐188



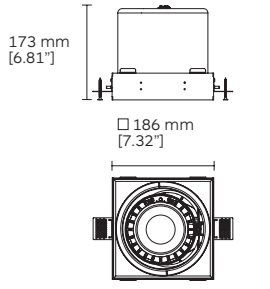
Moto-Palla 70
In & Out Square Trimless ☐ ☐136

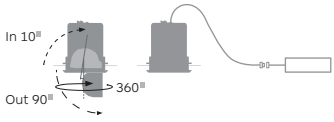


Moto-Palla 100
In & Out Square Trimless ☐ ☐158



Moto-Palla 130
In & Out Square Trimless ☐ ☐188





Code ordering example: **M566 BC22** - **90 30 16 DL 10**

	Product Code		Light Source Code*		>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Moto -Palla 70 In & Out Square	**M566**	■	**BC22**	COB LED	**90**	**30** 3000K	12W	1500 lm	**16 / 25 / 36**	**DL**	Laser Dim	**10** ■ Black
	M567	☐				**40** 4000K		1550 lm		**DC**	CASAMBI	**11** ☐ White
Moto - Palla 100 In & Out Square	**M568**	■	**BC33**	COB LED			21W	2200 lm	**15 / 24 / 38**	**DA**	DALI	
	M569	☐						2300 lm		**D1**	0-10V Dim	
										DX	DMX	
			BL22	Lumenetix[1]		**FS** Full Spectrum	18W	750 lm	**18 / 25 / 33**	**DC**	CASAMBI	
										DX	DMX	
Moto - Palla 130 In & Out Square	**M570**	■	**BC33**	COB LED	**90**	**30** 3000K	33W	3220 lm	**12 / 22 / 32**	**DL**	Laser Dim	
	M571	☐				**40** 4000K		3300 lm		**DC**	CASAMBI	
			BR21	High Power LED			21W	1862 lm	**07 / 24 / 36**	**DA**	DALI	
								1920 lm		**D1**	0-10V Dim	
										DX	DMX	
			BL23	Lumenetix[1]		**FS** Full Spectrum	25W	950 lm	**12 / 19 / 28**	**DC**	CASAMBI	
										DX	DMX	

Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.

PATENT Pending

** For other CCT options, Tuneable White (**TW**) version please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

Moto-Colosseo

90 | **120**

Body

Motorized fully adjustable round recessed luminaire. Mounting trim, light head and snoot are made of cast aluminium. Moto-Colosseo is available in 2 different light head diameters: 90mm and 120mm. The luminaire includes brackets for trim/trimless installation on ceiling thickness 6-15 mm.

Two remote controlled DC motors drive the movements of the fixture. The fixture are rotatable horizontally 350° and, tiltable vertically in two directions up to 30°.

The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

LED sources

COB LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options available on request.

Optic

Lens.
Narrow, medium and wide beam angle available.

Accessories

Honeycomb louvre.
For more information about accessories see page 83.

Driver

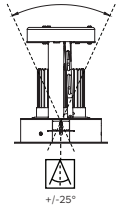
Supplied with remote dimmable driver.
Motion Control: Casambi.
Dimming Options: Casambi, 0-10V, DALI, DMX.

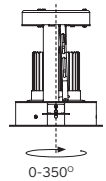
Finish

Powder coat in black or white colour.

Applications

A smart evolution of the classic formalighting's Colosseo. Fully adjustable light designed to accommodate any retail application and allow lamp aiming while power is on.
Application areas: retail, shopping centers, corridors, window display.



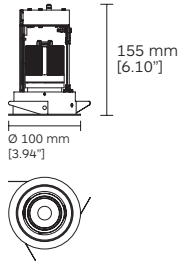


Moto-Colosseo

IP20

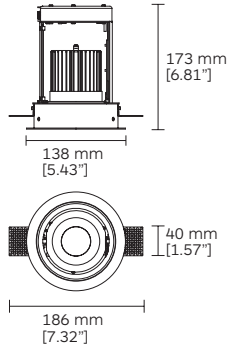
Moto-Colosseo 90

Trim ○ Ø97



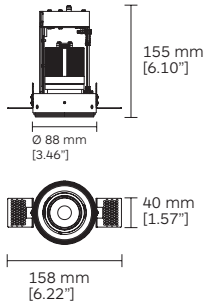
Moto-Colosseo 120

Trim ○ Ø127



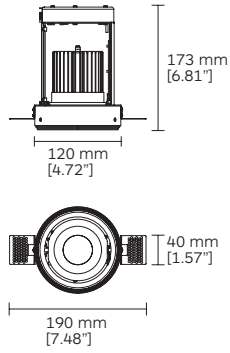
Moto-Colosseo 90

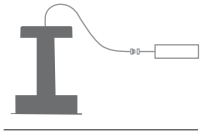
Trimless ○ Ø97



Moto-Colosseo 120

Trimless ○ Ø127





Code ordering example: **M588 BC31** - **90 30 11 DA 10**

	Product Code		Light Source Code*		>CRI	CCT**		LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Moto-Colosseo 90	**M588**	○	**BC31**	COB LED	**90**	**30**	3000K	11W	1088 lm	**11 / 24 / 32**	**DA**	Dali Dim	**10** ■ Black
	M578	○				**40**	4000K		1183 lm		**DP**	Phase Dim	**11** □ White
Moto-Colosseo 120	**M579**	○	**BC32**	COB LED				22W	2373 lm	**12 / 18 / 32**	**DC**	CASAMBI	
	M589	○							2637 lm		**D1**	0-10V Dim	
											DX	DMX	

Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.

** For other CCT options, Tuneable White (**TW**) version please contact us.

Moto-Gimbalo

60 | **130** | **Zoom 130**

Body

Motorized Gimbal design recessed luminaire. Mounting trim and Gimbal head are made of cast aluminium. Moto-Gimbalo is available in 2 different sizes: 60mm and 130mm. The luminaire includes brackets for installation on ceiling thickness max. 25 mm.

Two remote controlled DC motors drive the movements of the fixture. Moto-Gimbalo 60: tiltable 0-40° in two directions and rotatable 350°; Moto-Gimbalo 130: Tiltable 0-40° in all directions on a dual axis gimbals. A third motor controls a special lens, which allows the user to shape the light beam of the Zoom version between 7°-18°.

The movements and the beam shaping of the fixture, as well as the intensity and the colour tuning of the light, are controlled via LaserDim™ remote control or CASAMBI™ app.

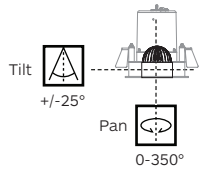
LED sources

COB LED, High Power LED (130), Lumenetix Full Spectrum (130), Zoom COB (130).
CRI: 90 | CCT: 3000K, 4000K, FS.
Other CRI and CCT options, Tuneable White and DimToWarm versions available on request

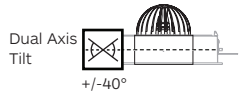
Optic

Lens.
Narrow, medium and wide beam angle available. Zoom version available for Moto-Gimbalo 130 with a 7°-18° range.

Moto-Gimbalo 60



Moto-Gimbalo 130



Accessories

Linear spread, honeycomb louvre, snoot, visor.
For more information about accessories see page 83.

Driver

Supplied with remote dimmable driver.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI, DMX.
Colour Tuning: Casambi, DMX.

Finish

Powder coat in black, white or grey colour.

Applications

A classic formalighting fixture with the bost of MOTOLUX technology.
Applications areas: retail, hotels, restaurants, hospitals, lobbies, gyms.

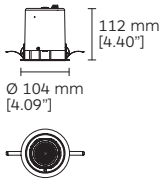
Moto-Gimbalo & Moto-Gimbalo Zoom

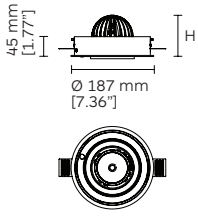
IP20 CE

Moto-Gimbalo 60
Trim ○ Ø94

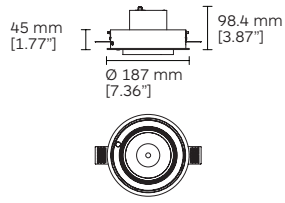
Moto-Gimbalo 130
Trim ○ Ø175

Moto-Gimbalo Zoom 130
Trim ○ Ø175





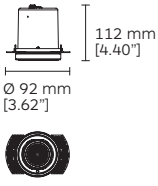
Light source code	Height (H) in mm
LC33	93
MR21	84
ML22	114

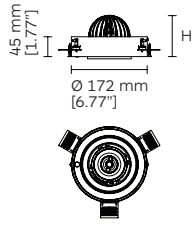


Moto-Gimbalo 60
Trimless ○ Ø100

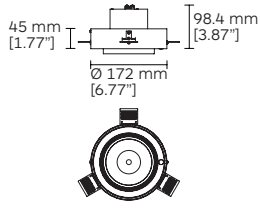
Moto-Gimbalo 130
Trimless ○ Ø175

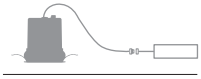
Moto-Gimbalo Zoom 130
Trimless ○ Ø175





Light source code	Height (H) in mm
LC33	93
MR21	84
ML22	114





Code ordering example: **M516MC22**-**90 30 18 DL 10**

	Product code		Light source code*		>CRI	CCT**		LED Power	Norminal Lumen	Beam angle (BA°)	Driver Options		Finish
Moto - Gimbalo 60	**M516**	○	**MC22**	COB LED	**90**	**30**	3000K	10W	1276 lm	**18 / 24 / 36**	**DL**	Laser-Dim	**10** ■ Black
	M517	○				**40**	4000K		1296 lm		**DC**	CASAMBI	**11** □ White
			MR21	High Power LED				6W	532 lm	**05**	**DA**	Dali Dim	**75** ■ Grey
									575 lm		**D1**	0-10 Dim	
Moto - Gimbalo 130	**M514**	○	**LC33**	COB LED				25W	2539 lm	**12 / 27 / 55**	**DX**	DMX	
	M515	○							2761 lm				
			MR21	High Power LED				21W	1862 lm	**07 / 21 / 36**			
									1920 lm				
			ML22	Lumenetix[1]		**FS**	Full Spectrum	18W	750 lm	**12 / 19 / 28**	**DC**	CASAMBI	
											DX	DMX	
Moto - Gimbalo **Zoom** 130	**M580**	○	**MN21**	COB LED	**90**	**30**	3000K	17W	1827 lm	**BS** (07° - 18°)	**DC**	CASAMBI	
	M581	○				**40**	4000K		1955 lm				

Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.

BS: Beam shaping.

** For other CCT options, Tuneable White (**TW**) version please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

PATENTED

Moto-MultiGimbalo

60 | **130** | **Zoom 130**

Body

Motorized Gimbal design recessed luminaire. Mounting trim and Gimbal head are made of cast aluminium. Moto-MultiGimbalo is available with up to 3 heads and in 2 different sizes: 60mm and 130mm. The luminaire includes brackets for installation on ceiling thickness max. 25 mm.

Two remote controlled DC motors drive the movements of the fixture. Moto-Gimbalo 60: tiltable 0-40° in two directions and rotatable 350°; Moto-Gimbalo 130: Tiltable 0-40° in all directions on a dual axis gimbals. A third motor controls a special lens, which allows the user to shape the light beam of the Zoom version between 7°-18°.

The movements and the beam shaping of the fixture, as well as the intensity and the colour tuning of the light, are controlled via LaserDim™ remote control or CASAMBI™ app.

Accessories

Linear spread, honeycomb louvre, snoot, visor.
For more information about accessories see page 83.

Finish

Powder coat in black, white and grey colour.

LED sources

COB LED, High Power LED (130), Lumenetix Full Spectrum (130), Zoom COB (130).
CRI: 90 | CCT: 3000K, 4000K, FS.
Other CRI and CCT options, Tuneable White and DimToWarm versions available on request

Optic

Lens.
Narrow, medium and wide beam angle available.
Zoom version available for Moto-Gimbalo 130 with a 7°-18° range.

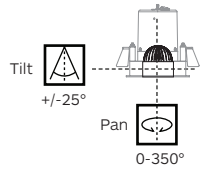
Driver

Supplied with remote dimmable driver.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI, DMX.
Colour Tuning: Casambi, DMX.

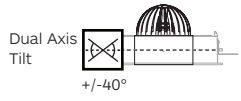
Applications

Elegant luminaire features a fully adjustable double gimbal concept combined with an elegant design and the MOTOLUX technology.
Application areas: retail, corridors, window display, hotels, restaurants, lobbies.

Moto-MultiGimbalo 60



Moto-MultiGimbalo 130



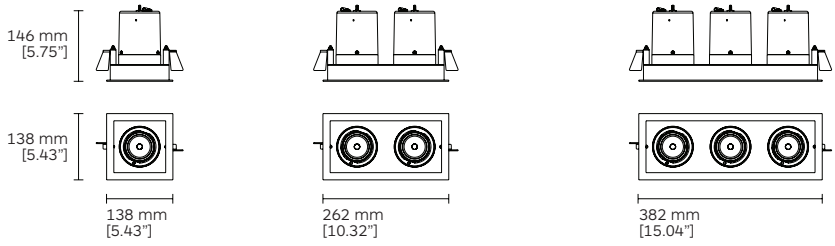
Moto-MultiGimbalo 60

IP20

Moto-MultiGimbalo 60
1 Head Trim ■ ☐129

Moto-MultiGimbalo 60
2 Heads Trim ■ 129 x249

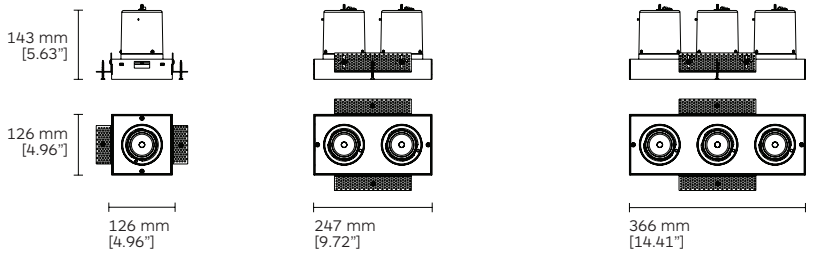
Moto-MultiGimbalo 60
3 Heads Trim ■ 129 x 369

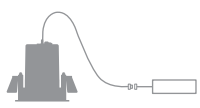


Moto-MultiGimbalo 60
1 Head Trimless ☐ ☐129

Moto-MultiGimbalo 60
2 Heads Trimless ☐ 129 x 249

Moto-MultiGimbalo 60
3 Heads Trimless ☐ 129 x 369





Code ordering example: **M 5 3 4 M C 2 2** - **9 0 3 0 1 8 D L 1 0**

	Product code	Light source code*	>CRI	CCT**	LED Power	Norminal Lumen	Beam angle (BA°)	Driver Options	Finish
Moto - MultiGimbalo 60 1 Head	**M534** ■ x1	**MC22** COB LED	**90**	**30** 3000K	10W	1276 lm	**18 / 24 / 36**	**DL** Laser-Dim	**10** ■ Black
	M536 ☐			**40** 4000K		1296 lm		**DC** CASAMBI	**11** ☐ White
		MR21 High Power LED			6W	530 lm	**05**	**DA** Dali Dim	**75** ■ Grey
						580 lm		**D1** 0-10 Dim	
Moto - MultiGimbalo 60 2 Heads	**M538** ■ x2	**MC22** COB LED			2x10W	2552 lm	**18 / 24 / 36**	**DX** DMX	
	M540 ☐					2592 lm			
		MR21 High Power LED			2x6W	1060 lm	**05**		
						1160 lm			
Moto - MultiGimbalo 60 3 Heads	**M542** ■ x3	**MC22** COB LED			3x10W	3828 lm	**18 / 24 / 36**		
	M544 ☐					3888 lm			
		MR21 High Power LED			3x6W	1590 lm	**05**		
						1740 lm			

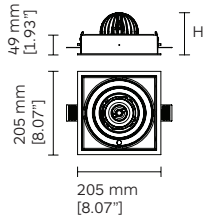
Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.
** For other CCT options, Tuneable White (**TW**) version please contact us.
PATENTED

Moto-MultiGimbalo 130-1 & Moto-MultiGimbalo Zoom 130-1

Moto-MultiGimbalo 130

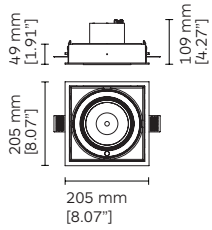
1 Head Trim ☐ ☐191



Light source code	Height (H) in mm
LC33	104
MR21	94
ML22	124

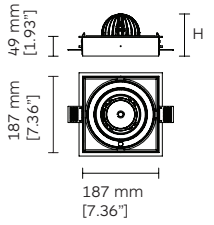
Moto-MultiGimbalo Zoom 130

1 Head Trim ☐ ☐191



Moto-MultiGimbalo 130

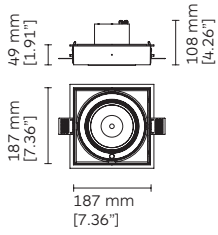
1 Head Trimless ☐ ☐191

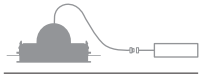


Light source code	Height (H) in mm
LC33	104
MR21	94
ML22	124

Moto-MultiGimbalo Zoom 130

1 Head Trimless ☐ ☐191





Code ordering example: **M501 LC33** - **90 30 12 DL 10**

	Product code	Light source code*	>CRI	CCT**	LED Power	Norminal Lumen	Beam angle (BA°)	Driver Options	Finish
Moto - MultiGimbalo 130 1 Head	**M501** ☐ x1	**LC33** COB LED	**90**	**30** 3000K	25W	2539 lm	**12 / 27 / 55**	**DL** Laser-Dim	**10** ■ Black
	M502 ☐			**40** 4000K		2761 lm		**DC** CASAMBI	**11** □ White
		MR21 High Power LED			21W	1862 lm	**07 / 21 / 36**	**DA** Dali Dim	**75** ■ Grey
						1920 lm		**D1** 0-10 Dim	
								DX DMX	
		ML22 Lumenetix[1]	**95**	**FS** Full Spectrum	18W	750 lm	**12 / 19 / 28**	**DC** CASAMBI	
								DX DMX	
Moto - MultiGimbalo **Zoom** 130 1 Head	**M582** ☐ x1	**MN21** COB LED	**90**	**30** 3000K	17W	1827 lm	**BS** (07° - 18°)	**DC** CASAMBI	
	M583 ☐			**40** 4000K		1955 lm			

Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.

BS: Beam shaping.

** For other CCT options, Tuneable White (**TW**) version please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

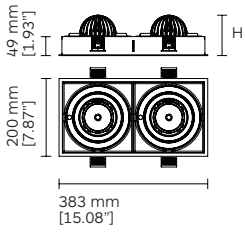
[1] The values in the nominal lumen are referring to the peak lumen.

PATENTED

Moto-MultiGimbalo 130-2 & Moto-MultiGimbalo Zoom 130-2

Moto-MultiGimbalo 130

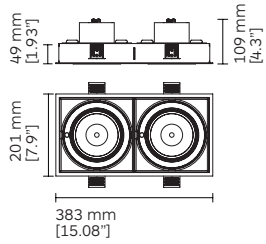
2 Heads Trim ■ 374 x 191



Light source code	Height (H) in mm
LC33	104
MR21	94
ML22	124

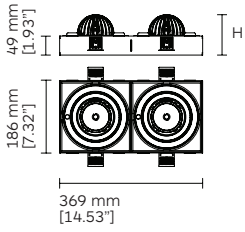
Moto-MultiGimbalo Zoom 130

2 Heads Trim ■ 374x191



Moto-MultiGimbalo 130

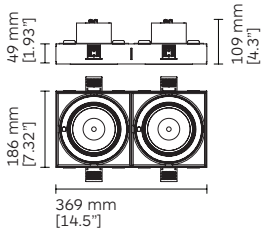
2 Heads Trimless □ 374 x 191



Light source code	Height (H) in mm
LC33	104
MR21	94
ML22	124

Moto-MultiGimbalo Zoom 130

2 Heads Trimless □ 374 x 191



Code ordering example: **M 5 0 3 L C 3 3** - **9 0 3 0 1 2 D L 1 0**

	Product code	Light source code*	>CRI	CCT**	LED Power	Norminal Lumen	Beam angle (BA°)	Driver Options	Finish
Moto - MultiGimbalo 130 2 Heads	**M503** ■ x2	**LC33** COB LED	**90**	**30** 3000K	2x25W	5078 lm	**12 / 27 / 55**	**DL** Laser-Dim	**10** ■ Black
	M504 □			**40** 4000K		5522 lm		**DC** CASAMBI	**11** □ White
		MR21 High Power LED			2x21W	3724 lm	**07 / 21 / 36**	**DA** Dali Dim	**75** ■ Grey
						3840 lm		**D1** 0-10 Dim	
								DX DMX	
		ML22 Lumenetix[1]	**95**	**FS** Full Spectrum	2x18W	1500 lm	**12 / 19 / 28**	**DC** CASAMBI	
								DX DMX	
Moto - MultiGimbalo **Zoom** 130 2 Heads	**M584** ■ x2	**MN21** COB LED	**90**	**30** 3000K	2x17W	3654 lm	**BS** (07° - 18°)	**DC** CASAMBI	
	M585 □			**40** 4000K		3910 lm			

Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.

BS: Beam shaping.

** For other CCT options, Tuneable White (**TW**) version please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

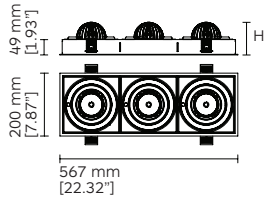
[1] The values in the nominal lumen are referring to the peak lumen.

PATENTED

Moto-MultiGimbalo 130-3 & Moto-MultiGimbalo Zoom 130-3

Moto-MultiGimbalo 130

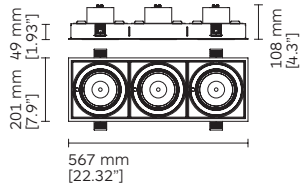
3 Heads Trim ■ 557 x 191



Light source code	Height (H) in mm
LC33	104
MR21	94
ML22	124

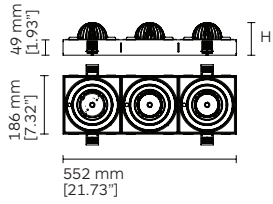
Moto-MultiGimbalo Zoom 130

3 Heads Trim ■ 557x191



Moto-MultiGimbalo 130

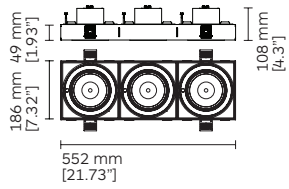
3 Heads Trimless □ 557 x 191



Light source code	Height (H) in mm
LC33	104
MR21	94
ML22	124

Moto-MultiGimbalo Zoom 130

3 Heads Trimless □ 557 x 191



Code ordering example: **M505LC33**-9030 12 DL 10

	Product code	Light source code*	>CRI	CCT**	LED Power	Norminal Lumen	Beam angle (BA°)	Driver Options	Finish
Moto - MultiGimbalo 130 3 Heads	**M505** ■ x3	**LC33** COB LED	**90**	**30** 3000K	3x25W	7617 lm	**12 / 27 / 55**	**DL** Laser-Dim	**10** ■ Black
	M506 □			**40** 4000K		8283 lm		**DC** CASAMBI	**11** □ White
		MR21 High Power LED			3x21W	5586 lm	**07 / 21 / 36**	**DA** Dali Dim	**75** ■ Grey
						5760 lm		**D1** 0-10 Dim	
								DX DMX	
		ML22 Lumenetix[1]	**95**	**FS** Full Spectrum	3x18W	2250 lm	**12 / 19 / 28**	**DC** CASAMBI	
								DX DMX	
Moto - MultiGimbalo **Zoom** 130 3 Heads	**M586** ■ x3	**MN21** COB LED	**90**	**30** 3000K	3x17W	5481 lm	**BS** (07° - 18°)	**DC** CASAMBI	
	M587 □			**40** 4000K		5865 lm			

Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.

BS: Beam shaping.

** For other CCT options, Tuneable White (**TW**) version please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

PATENTED

Product Name: Moto-MultiGimbalo
Location of Project: Beijing

Moto-Flap

190 | **295**

Body

Motorized wall mounted luminaire. Light Body and base are made of cast aluminium. The included wall fixing device is made of painted metal and is equipped with a catch retainer for luminaire easy installation.

Moto-Flap is available in 2 different sizes: 190mm and 295mm. Two remote controlled DC motors drive the movements of the fixture. A pan horizontal movement of 0-350° to create special light effect and a, like a shell, tilt vertical movement up to 90°.

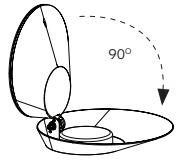
The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

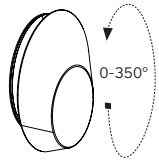
LED sources

COB LED, Lumenetix Full Spectrum (295).
CRI: 90 | CCT: 3000K, 4000K, FS.
Other CRI and CCT options, Tuneable White versions available on request.

Optic

Lens + diffuser.
Extra wide beam angle available.





Accessories

No accessories available

Driver

Supplied with integrated dimmable driver.
Motion Control: Casambi.
Dimming Options: Casambi, 0-10V, DALI, DMX.
Colour Tuning: Casambi, DMX.

Finish

Powder coat in black and white colour.

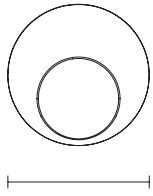
Applications

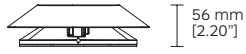
The first decorative lamp from formalighting's award winning MOTOLUX range. Resembling a pearl oyster shell, Moto-Flap illuminates surrounding surfaces and emits a beam of luminous indirect light.
Application Areas: Hospitality, corridors, lounges.

Moto-Flap

Moto-Flap 190

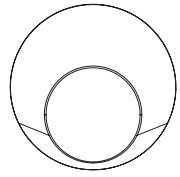
Wall

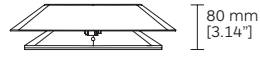




Moto-Flap 295

Wall





Code ordering example: **M106 BC22** - 90 30 00 DC 11

	Product code	Light source code*	>CRI	CCT**	LED Power	Norminal Lumen	Beam angle (BA°)	Driver Options	Finish
Moto - Flap 190	**M106**	**BC22** COB LED	**90**	**30** 3000K	8W	800 lm	**00**	**DC** CASAMBI	**10** ■ Black
				40 4000K		840 lm			**11** □ White
Moto - Flap 295	**M105**	**BC22** COB LED			17W	1700 lm			
						1750 lm			
		BL22 Lumenetix[1]		**FS** Full Spectrum	18W	750 lm	**18 / 25 / 33**		

Notes:

* For complete code ordering information, please see page 97.

** For other CCT options, Tuneable White version please contact us.

[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

Moto-Gimbalo Surface

Body

Motorized ceiling mounted downlight. Light head and body are made of cast aluminium. Deep regressed light head position to minimize the glare.

Moto-Gimbalo Surface have a diameter of 203mm and a height of 176mm.Two remote controlled DC motors drive the movements of the fixture, which is tiltable vertically 0-40° in all direction on a dual axis gimbals.

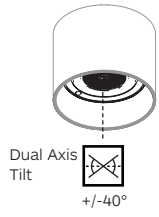
The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via LaserDim™ remote control or CASAMBI™ application.

LED sources

COB LED, High Power LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options, Tuneable White and DimToWarm versions available on request

Optic

Lens.
Narrow, medium and wide beam angle available.



Accessories

No accessories available

Driver

Supplied with integrated dimmable driver.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI.

Finish

Powder coat in black or white colour.

Applications

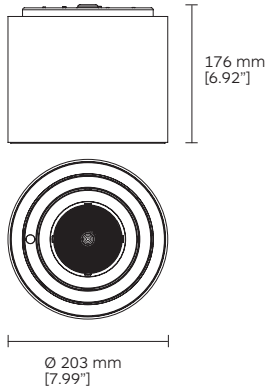
Motorized ceiling mounted luminaire with simple design used to provide ambient or accent lighting.
Application areas: residential, retail, galleries, restaurants, hotels, lobbies, corridors.

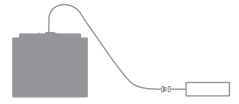
Moto-Gimbalo Surface

IP20 CE

Moto-Gimbalo

Surface





Code ordering example: **M103 BC33** - **90 30 15 DL 10**

	Product code	Light source code*	>CRI	CCT**	LED power	Nominal lumen	Beam angle (BA°)	Driver Options	Finish
Moto - Gimbalo Surface	**M103**	**BC33** COB LED	**90**	**30** 3000K	17W	1934 lm	**15 / 24 / 38**	**DL** Laser Dim	**10** ■ Black
				40 4000K		2041 lm		**DC** CASAMBI	**11** □ White
								DA DALI Dim	
		BR21 4 x High Power LED	**90**	**30** 3000K	21W	1862 lm	**07 / 24 / 36**	**D1** 0 - 10 Dim	
				40 4000K		1920 lm		**DX** DMX	

Notes:

* For complete code ordering information, please see page 97.

** For other CCT options, Tuneable White (**TW**) version please contact us.

PATENTED

Moto-Gimbalo Pendant

Body

Motorized pendant mounted spotlight with light body and mounting clamps in cast aluminium. Supplied with ceiling canopy and pre-installed 2 x 1.5m pendant steel wires inclusive of electrical connection.

The entire luminaire is tiltable vertically up to 45° in two directions. Furthermore the internal light head is tiltable 320°.

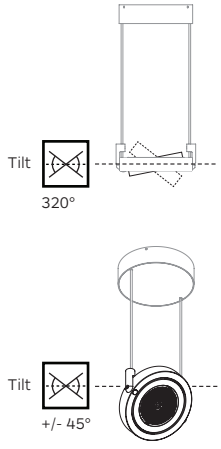
The movements of the fixture, as well the intensity and the white colour tuning of the light, are controlled via LaserDim™ remote control or CASAMBI™ application.

LED sources

COB LED, High Power LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options, Tuneable White and DimToWarm versions available on request

Optic

Lens.
Narrow, medium and wide beam angle available.



Accessories

No accessories available

Driver

Supplied with integrated dimmable driver.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI.

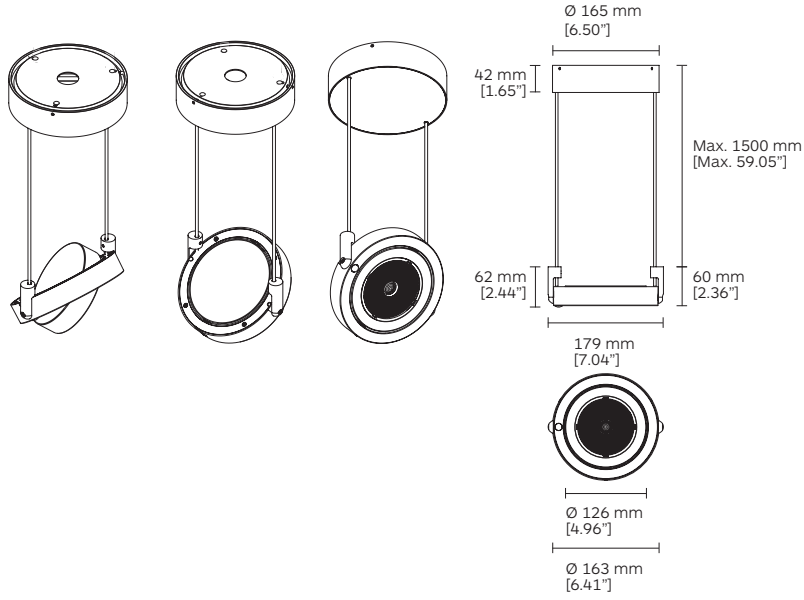
Finish

Powder coat in black and white colour.

Applications

Pendant luminaire with a modern look, providing direct/ indirect illumination. Thanks to the MOTOLUX technology can be adjusted to accurately aimed the zone to illuminate.
Application areas: museums, retail, restaurants, hotels.

Moto-Gimbalo Pendant



Code ordering example: **M705 BC33 - 90 30 15 DL 10**

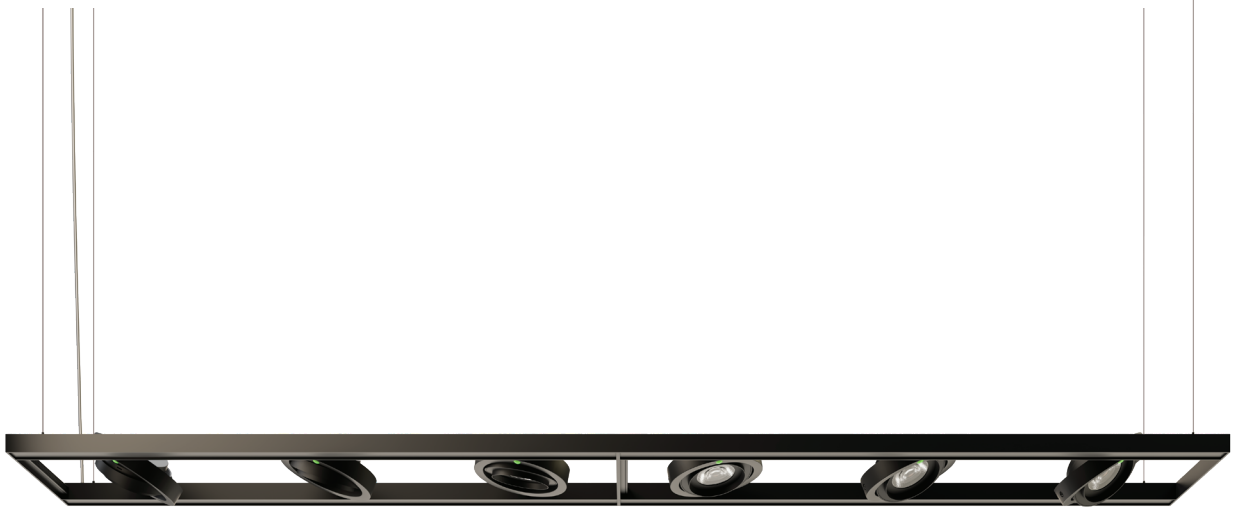
	Product code	Light source code*		>CRI	CCT**	LED power	Nominal lumen	Beam angle (BA°)	Driver Options	Finish
Moto-Gimbalo Pendant	**M705**	**BC33**	COB LED	**90**	**30** 3000K	17W	1934 lm	**15 / 24 / 38**	**DL** Laser Dim	**10** ■ Black
					40 4000K		2041 lm		**DC** CASAMBI	**11** □ White
									D1 0 - 10 Dim	
		BR21	High Power LED	**90**	**30** 3000K	21W	1862 lm	**07 / 24 / 36**		
					40 4000K		1920 lm			

Notes:

* For complete code ordering information, please see page 97.

** For other CCT options, Tuneable White (**TW**) version please contact us.
PATENT pending.

Sistema Moto-MultiGimbalo



Body

Motorized pendant mounted system luminaire. The three independent light heads and the luminaire trim are made of cast aluminium.

Sistema Moto-MultiGimbalo Pendant have a length of 1000mm and a width of 249mm. The luminaire is Supplied with ceiling canopy, a pre-installed 1.5m electrical cable and 4x1.5m pendant steel wires.

Two remote controlled DC motors drive the movements of the fixture, which is Tiltable vertically 0-40° in all directions on a dual axis gimbals. The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via LaserDim™ remote control or CASAMBI™ application.

Accessories

Linear spread, honeycomb louvre, snoot, visor.
For more information about accessories see page 83.

Finish

Powder coat in black and white colour.

LED sources

COB LED, High Power LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options, Tuneable White and DimToWarm versions available on request

Optic

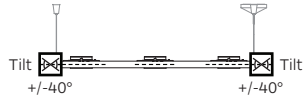
Lens.
Narrow, medium and wide beam angle available.

Driver

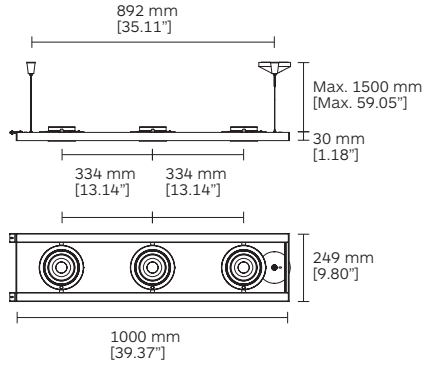
Supplied with integrated dimmable driver.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI.

Applications

A elegant and neat design for excellent visual comfort.
Ideal for maintaining a minimalist and clean ceiling aesthetic.
Applications areas: retail, hotels, restaurants, hospitals, lobbies, car showrooms.



Sistema Moto-MultiGimbalo



Code ordering example: **M706 BC33 - 90 30 15 DL 10**

	Product code	Light source code*		>CRI	CCT**	LED power	Nominal lumen	Beam angle (BA°)	Driver Options	Finish
Sistema Moto-MultiGimbalo	**M706**	**BC33**	COB LED	**90**	**30** 3000K	3x17W	5802 lm	**15 / 24 / 38**	**DL** Laser Dim	**10** ■ Black
					40 4000K		6123 lm		**DC** CASAMBI	**11** □ White
									DA DALI Dim	
		BR21	High Power LED	**90**	**30** 3000K	3x21W	5586 lm	**07 / 24 / 36**	**D1** 0 - 10 Dim	
					40 4000K		5760 lm			

Notes:

* For complete code ordering information, please see page 97.

For related accessories, please see page 82-83.

** For other CCT options, Tuneable White (**TW**) version please contact us.

PATENT pending.

Moto-Lineavolo

Body

Motorized pendant mounted luminaire. The light body is made of cast aluminium. Moto-LineaVolo is available in 2 different length: 900mm and 1200mm.

The luminaire is supplied with ceiling base and two pre-installed pendant steel wires inclusive of electrical connection. A remote controlled DC motors regulates the height of the wires between 500mm and 1000mm.

The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

LED sources

SMD.
CRI: 97 | R9: >90 | CCT: 2700K, 3000K, 3500K, 4000K | 3-Step McAdam.
Other CRI and CCT options available on request.

Optic

Supplied with semi transparent diffuser. Opal white diffuser available on request.
Beam angle: extra wide (120°).

Accessories

No accessories available

Driver

Inclusive of integrated LaserDim™ or CASAMBI driver.
Diming Options: Scene by CASAMBI.

Finish

Anodized coat in gold, natural aluminium, black and white colour.

Applications

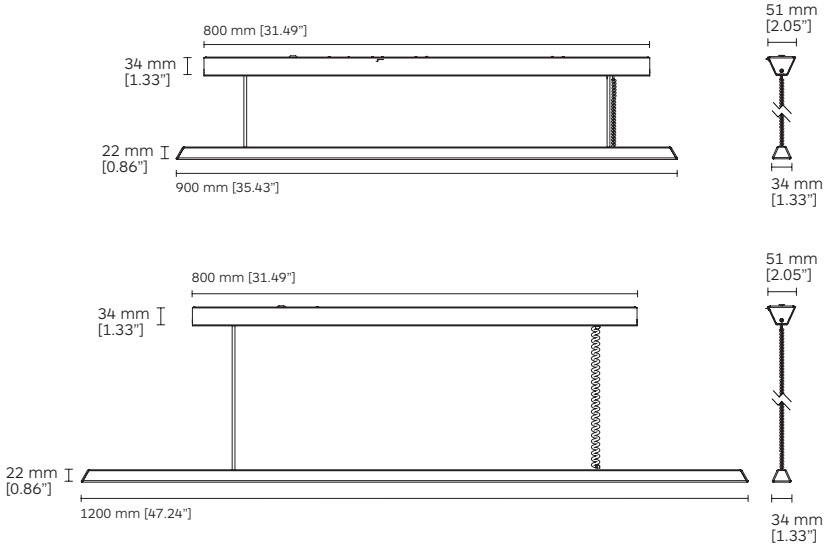
LineaVolo blends the line between architectural and decorative. Its motorized version add the flexibility of the MOTOLUX range to the elegance of LineaVolo family.
Application Areas: residential, hospitality, restaurants, corridors, offices.

Moto-Lineavolo

IP20

Moto-Lineavolo

Pendant



Code ordering example: **M 7 0 7 0 9 0 0** - **9 0 3 0 0 0 D C 1 0**

	Product code*	Length code	Light Source	>CRI	CCT**	LED Power	Norminal Lumen	Beam angle (BA°)	Driver Options	Finish
Moto-Lineavolo	**M707**	**0900**	LED	**90**	**30** 3000K	17W	1595 lm	**00**	**DC** CASAMBI	**10** Black
					40 4000K		1595 lm			**11** White
		1200				23W	2145 lm			**79** Natural Aluminium
							2145 lm			**35** Gold

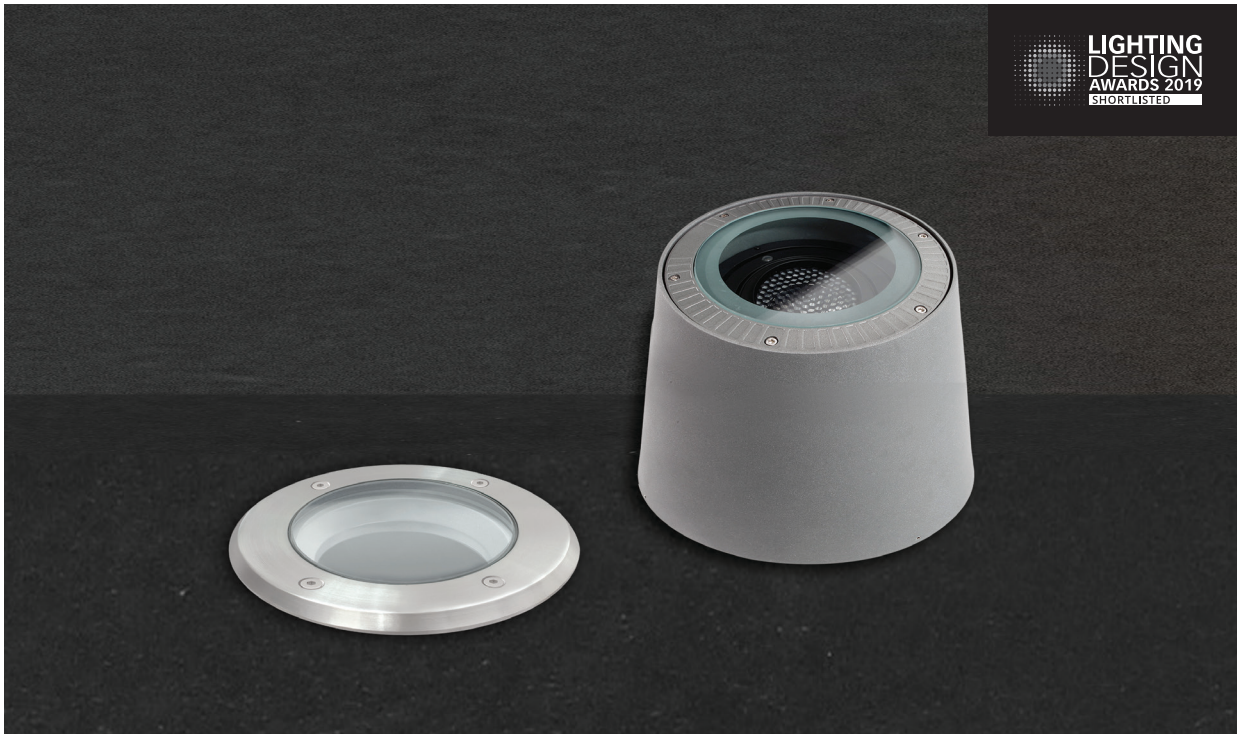
Notes:

* For complete code ordering information, please see page 97.

** For other CCT options, Tuneable White (**TW**) version please contact us.

Moto-Gimbalo Terraluce

Recessed & On ground



Body

Motorized outdoor luminaire. Available in two version: ground recessed or on-ground mounted.Luminaire trim is made of stainless steel, internal light head in cast aluminium, on ground version body in painted metal. The fixture, also, included a toughened safety glass, a weatherproof durable silicone gasket and external stainless steel screws.

Two DC motors drive the movements of the fixture, which is tiltable vertically 0-40° in all directions on a dual axis gimbals.

The movements of the fixture, as well as the intensity and the colour tuning of the light, are controlled via CASAMBI™ application.

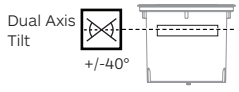
LED sources

High Power LED, Lumenetix Full Spectrum.
CRI: 90 | CCT: 3000K, 4000K, FS.
Other CRI and CCT options, Tuneable White and DimToWarm versions available on request

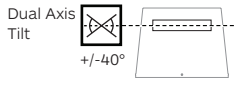
Optic

Lens.
Narrow, medium and wide beam angle available.

Moto-Gimbalo Terraluce
Recessed



Moto-Gimbalo Terraluce
On ground



Accessories

Linear spread, honeycomb louvre.
For more information about accessories see page 83.

Driver

Supplied with integrated dimmable driver.
Motion Control: Casambi, LaserDim.
Dimming Options: Casambi, LaserDim, 0-10V, DALI.
Colour Tuning: Casambi, DMX.

Finish

Powder coat in Stainless steel (AISI316).

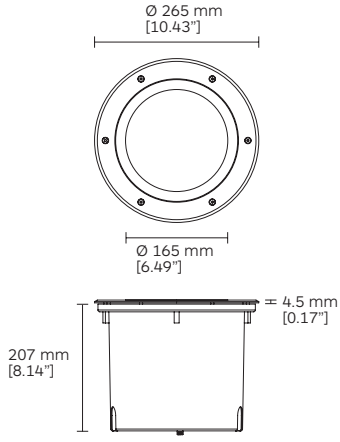
Applications

Neat designed uplighting luminaire perfect to wall wash or highlight outdoor architectural structures or surfaces
Shortlisted at the Lighting Design Awards 2019.
Application areas: facades, parks, golf courses, driveways, sculptures.

Moto-Gimbalo Terraluce

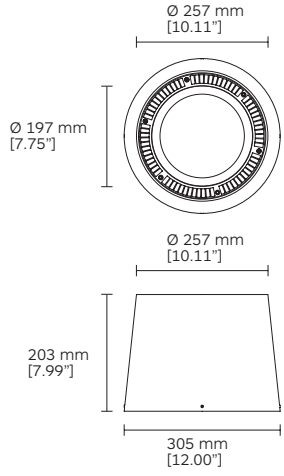
Moto-Gimbalo Terraluce

Recessed



Moto-Gimbalo Terraluce

On ground



Code ordering example: **M301MR21**-**90 30 07 DL 84**

	Product code	Light source code*	>CRI	CCT**	LED Power	Norminal Lumen	Beam angle (BA°)	Driver Options	Finish
Moto-Gimbalo Terraluce Recessed	**M301**	**MR21** High Power LED	**90**	**30** 3000K	21W	1862 lm	**07 / 24 / 36**	**DL** Laser-Dim	**84** Stainless Steel
				40 4000K		1920 lm		**DC** CASAMBI	**29** Grey
Moto-Gimbalo Terraluce On ground	**M302**	**BL22** Lumenetix[1]	**90**	**FS** Full Spectrum	18W	750 im	**14 / 22 / 36**	**DA** Dali Dim	
								D1 0-10 Dim	
								DX DMX	

Notes:

* For complete code ordering information, please see page 97.
For related accessories, please see page 82-83.

** For other CCT options, Tuneable White (**TW**) version please contact us.

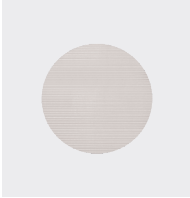
[1] Tuning range: 1650-8000K. Gradients of saturated colours from 1-100% can be added to colour points within the tuning range.

[1] The values in the nominal lumen are referring to the peak lumen.

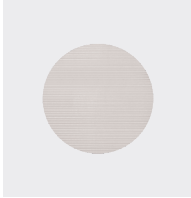
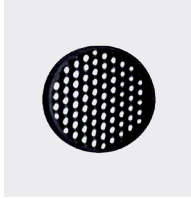
PATENTED.

Optical Accessories
Track Systems

Optical Accessories

Product / Optical Accessories		 Linear Spread Colour 10	Honeycomb Louvre Colour 10	Visor Colour 10	Visor Colour 10	Snoot Colours 10
Low Voltage Track	Moto-Zero Low Voltage 68	**2A51**	**2A54**	**2A60**	**/**	**2A65**
	Moto-Zero Low Voltage 100	**/**	**2C70**	**/**	**/**	**/**
Track	Moto-Zero Compasso 68	**2A51**	**2A54**	**2A60**	**/**	**2A65**
	Moto-Zero 66					
	Moto-Zero 100	**2A50**	**2A53**	**2A64**	**/**	**2A59**
	Moto-Zero 130	**2A49**	**2A52**	**2A63**	**/**	**2A58**
	Moto-Zero Zoom 130	**/**	**2D95**	**/**	**/**	**/**

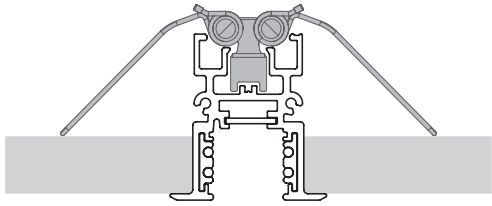
Optical Accessories

Product / Optical Accessories		 Linear Spread Colour 10	 Honeycomb Louvre Colour 10	Visor Colour 10	Visor Colour 10	Snoot Colours 10
Recessed	Moto-Combo	/	**2334**	/	/	/
	Moto-Zero In & Out 66	**2A51**	**2A54**	**2A60**	/	**2A65**
	Moto-Palla In & Out 70	/	**2B95**	/	/	/
	Moto-Palla In & Out 100		**2B99**			
	Moto-Palla In & Out 130		**2C04**			
	Moto-Colosseo 90	/	**2504**	/	/	/
	Moto-Colosseo 120		**2633**			
	Moto-Gimbalo 60	**2663**	**2634**	/	**2A85**	**2A91**
	Moto-Gimbalo 130	**2A68**	**2334**	/	**2A83**	**2A89**
	Moto-MultiGimbalo 60	**2663**	**2634**	**2321**	/	/
	Moto-MultiGimbalo 130	**2598**	**2334**	**2327**	/	/
Pendant	Sistema Moto-MultiGimbalo	**2598**	**2334**	**2327**	/	/
Outdoor	Moto-Gimbalo Terraluce Recessed	**2598**	**2334**	**2327**	/	/
	Moto-Gimbalo Terraluce On Ground					

Low Voltage Track Options

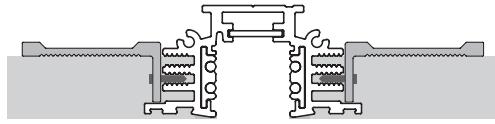
Recessed Trim Track

2ST8 + Art. 9202 Bracket with spring for 2ST8



Recessed Trimless Track

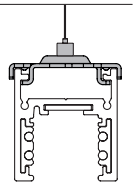
2ST3 + Art. 9201 Bracket for 2ST3 trimless track



Pendant Track

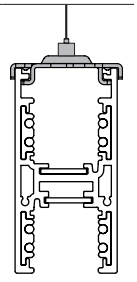
2ST6 + Pendant Kits

Art.9226



2ST7 + Pendant Kits

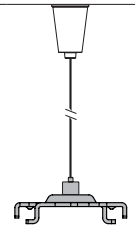
Art.9226



Pendant Kit

Pendant Kit

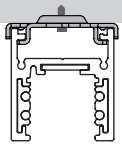
Art. 9226



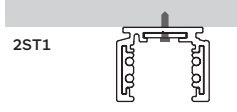
Surface Track

2ST6 + Surface Kits

Art.9225



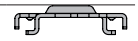
2ST1



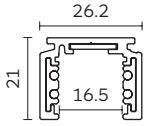
Surface Kit

Surface Kit

Art. 9225

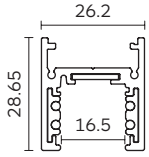


Low Voltage Track



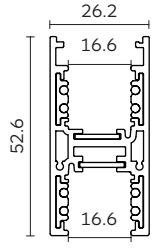
Surface Track

2ST1



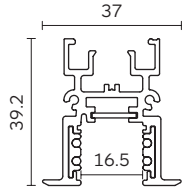
Surface Track
Pendant Track

2ST6



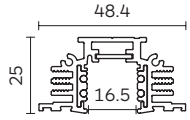
Pendant Track

2ST7



Recessed Track
Trim

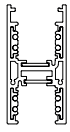
2ST8



Recessed Track
Trimless

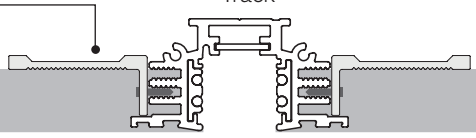
2ST3

Compatibility

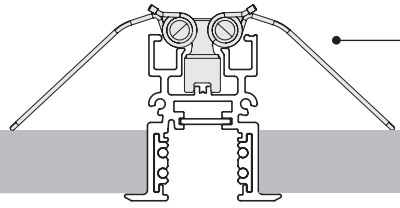
Track Options/ Product name	Surface Track **2ST1**	Surface Track Pendant Track **2ST6**	 Pendant Track **2ST7** Up & Down	Recessed Track Trim **2ST8**	Recessed Track Trimless **2ST3**
Moto-Zero Low Voltage	✓	✓	✓ ✓	✓	✓
Moto-Zero Zoom Low Voltage	✓	✓	✓ ✓	✓	✓

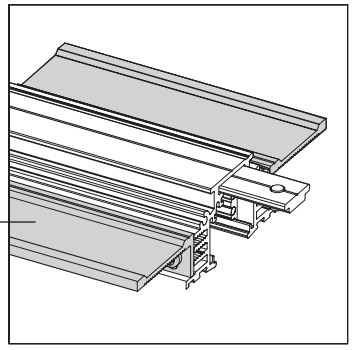
Accessories

Recessed Trimless Track



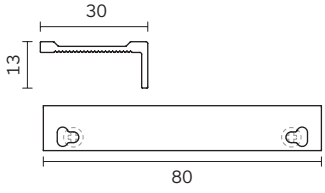
Recessed Trim Track

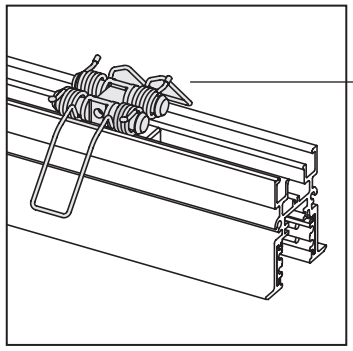




Bracket for 2ST3 Trimless Track

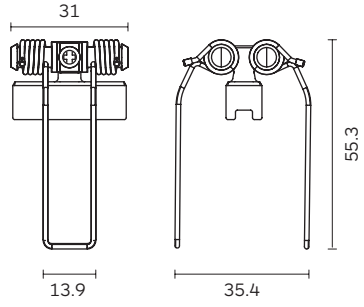
Art. 9201





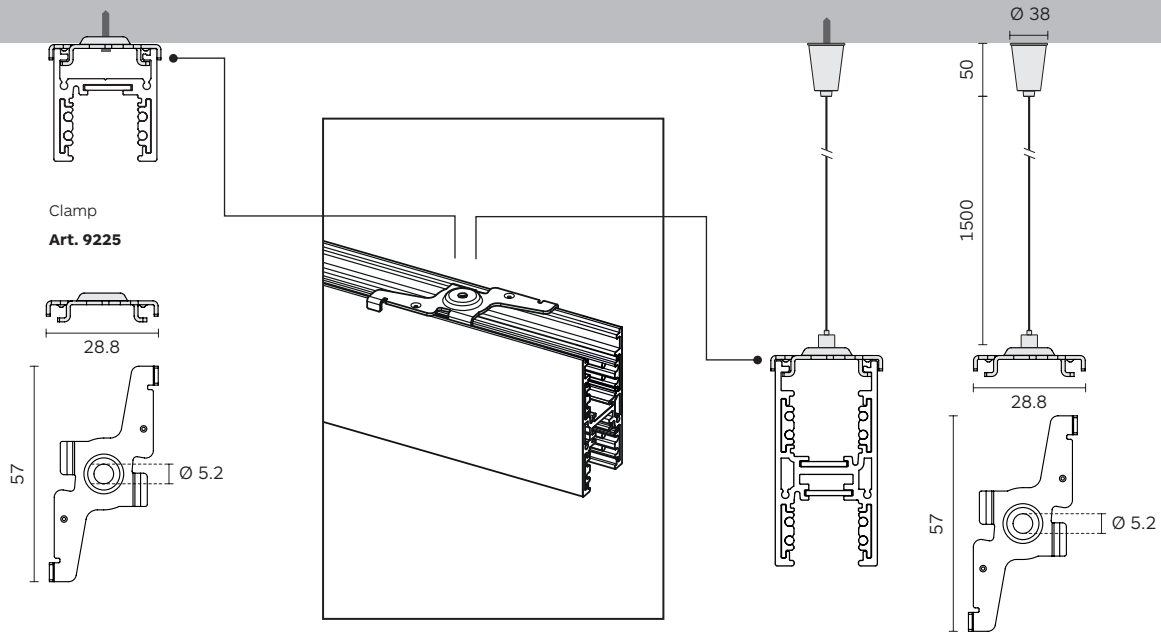
Bracket with Spring for 2ST8

Art. 9202



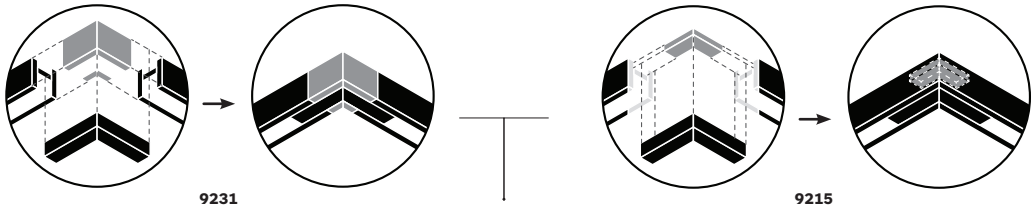
Surface
Track

Pendant
Track



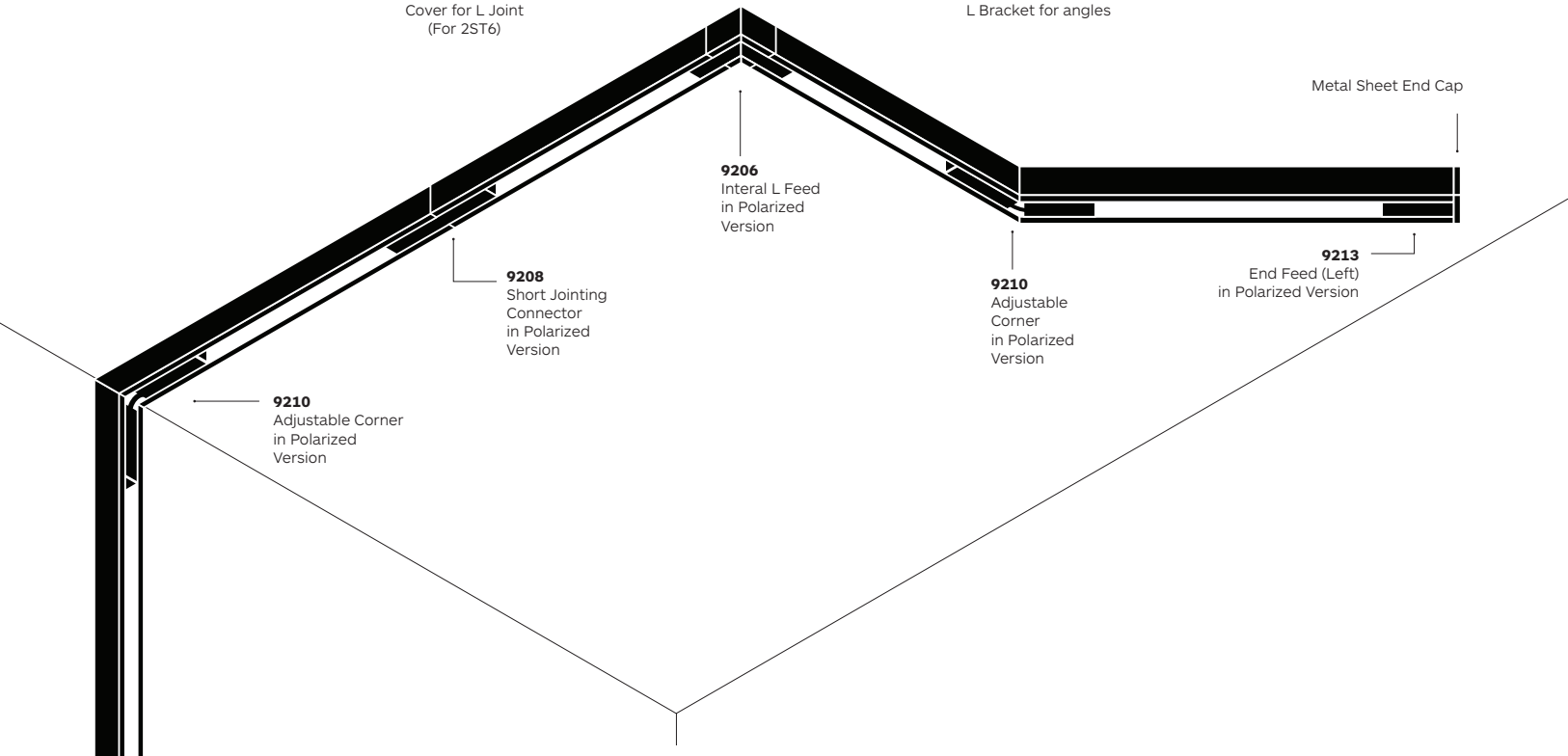
Clamp
Art. 9225

Clamp with wire Hanger
Art. 9226

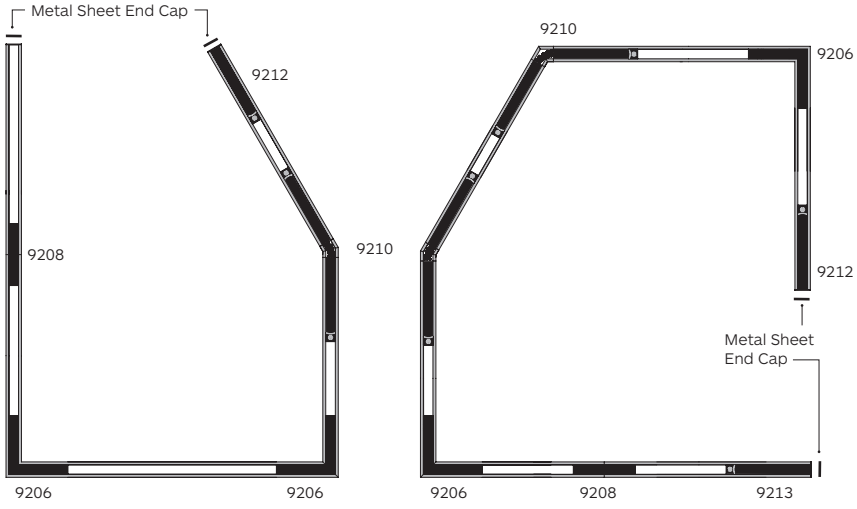


9231
Cover for L Joint
(For 2ST6)

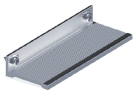
9215
L Bracket for angles



Reference Diagram for Choice of Connetors

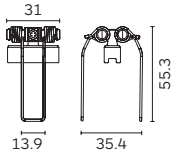


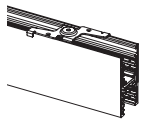
Installation Components



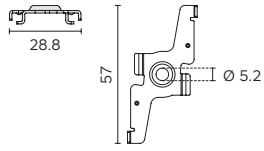
9201 Bracket for 2ST3 trimless track

9202 Bracket with spring for 2ST8

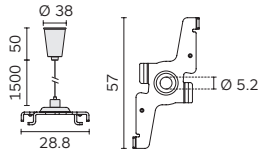




9225 Clamp



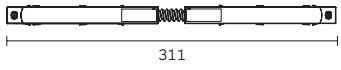
9226 Clamp with Wire Hanger



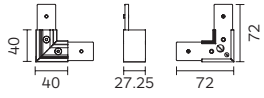
Accessories

9206* Interal L feed in Polarized Version

9202 Bracket with spring for 2ST8

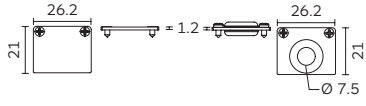


9231 Cover for L Joint (For 2ST6)

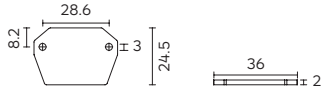


9216* Metal sheet End Cap for 2ST1

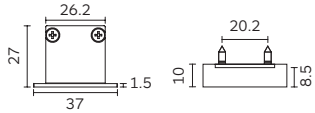
9217* Metal sheet End Cap with hole for 2ST1



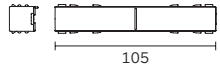
9220* Metal sheet End Cap for 2ST3



9223* Metal sheet End Cap for 2ST8

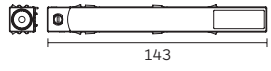


9208* Short Jointing connector in Polarized Version

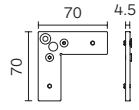


9212* End Feed (Left) in Polarized Version

9213* End Feed (Right) in Polarized Version

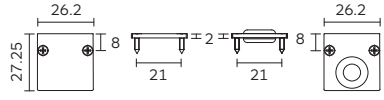


9215 L Bracket for angles

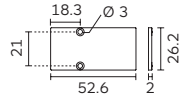


9221* Metal sheet End Cap for 2ST6

9222* Metal sheet End Cap with hole for 2ST6



9230* Metal sheet End Cap for 2ST7



Notes:

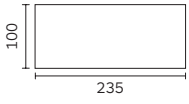
* Available in colours 10, 11

Power Supply Options

Power Supply

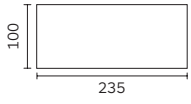
220-240VAC input, 48VDC output 75w power supply for low voltage track

Code	2E28
Size	100 x 235 x 31



220-240VAC input, 48VDC output 150w power supply for low voltage track

Code	2E29
Size	100 x 235 x 31

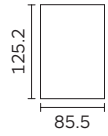


220-240VAC input, 48VDC output 240W, DIN rail power supply unit for low voltage track

Code	2E30
Size	Max. 63 x 125.2 x 113.5

220-240VAC input, 48VDC output 480w, DIN rail power supply unit for low voltage track

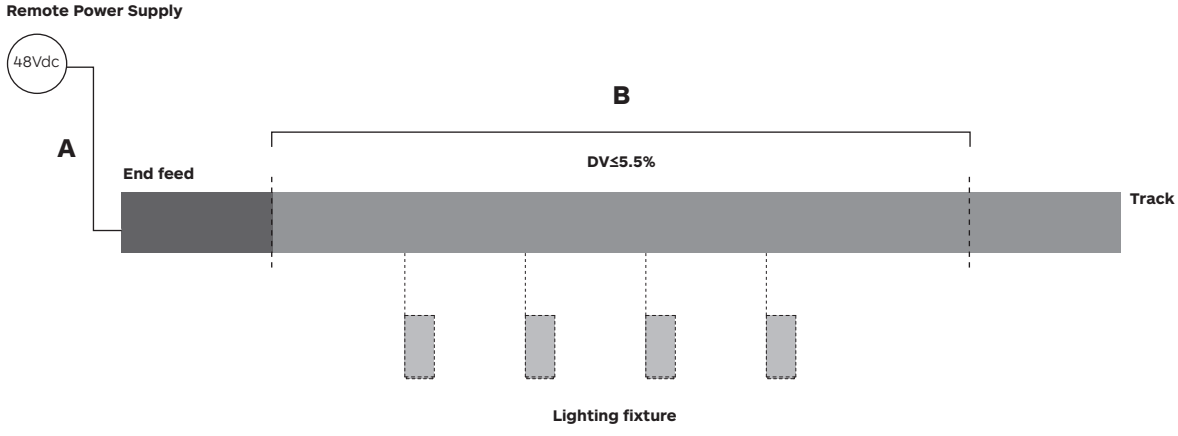
Code	2E31
Size	Max. 85.5 x 125.2 x 128.5



Drop Voltage Table

	A Distance power supply/feed unit (2x1.5mm²)			
	5m	10m	20m	30m
	B Track Length with Δv≤5.5% (m)			
Power Supply (W)	(m)	(m)	(m)	(m)
60	50	50	50	50
100	50	50	40	25
150	50	40	20	Not admitted
200	40	30	Not admitted	Not admitted
250	35	20	Not admitted	Not admitted

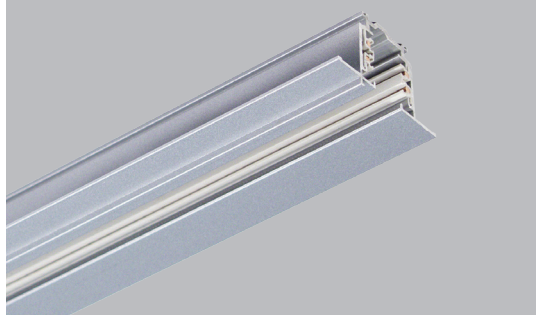
Information refers to a load equivalent to the power supplied and equally distributed on the relevant lenght in the table.



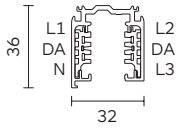
Eurotype Track System with Dali Support

Surface Mounted Track

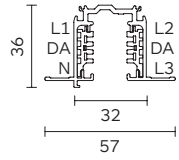
Flanged Recessed Track



Product Code	Length Code	Length (L)
2D65	**1000**	1m
2D65	**2000**	2m
2D65	**3000**	3m



Product Code	Length Code	Length (L)
2D66	**1000**	1m
2D66	**2000**	2m
2D66	**3000**	3m



Finish

10 ■ Black
11 □ White
75 ■ Grey

Notes: Connection to the 220-250V single-phase mains: 16A overall load, corresponding to 3500/4000 VA over the three circuits.

Features

Three circuit main-voltage track system with Data Bus.

Track in extruded aluminium fitted with four 16A rolled copper conductors and 2 conductors for Data signal housed in extruded insulated black thermoplastic.

Equipped with three separately controllable current circuit.

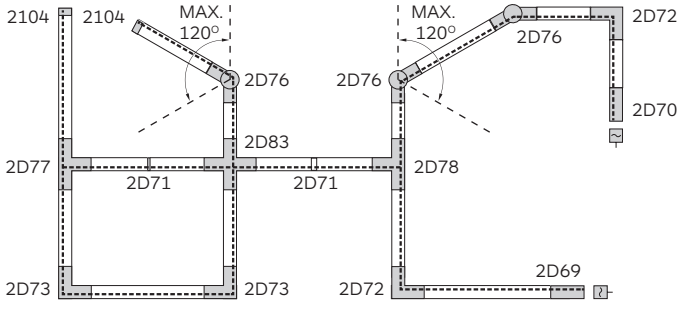
Completed of a vast range of accessories to fit to the needs of any specific project.

EN 60570 | IP20 | CE

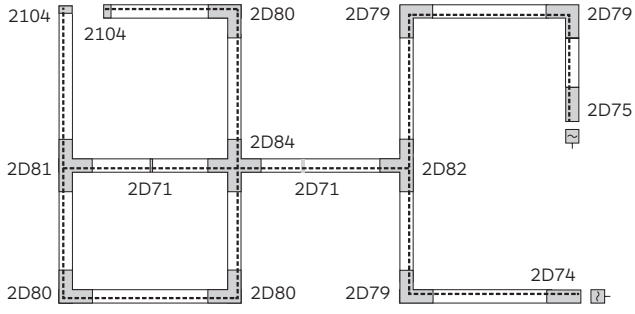
The drawing is Reflected Ceiling View.

Directive Lug on the back of connectors.

Reference Diagram for Choice of Connetors (Surface Mounted Track)

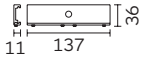


Reference Diagram for Choice of Connetors (Flanged Recessed Track)

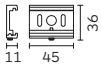


Installation Components

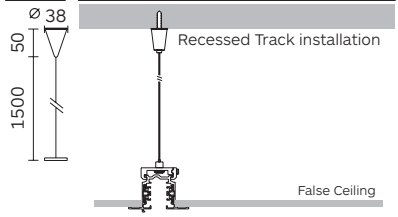
2105* Mechanical Coupier



2106* Ceiling Bracket

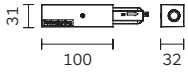


2108* Wire Hanger

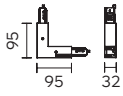


Accessories

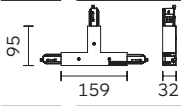
2D69** Feeder (Right) for Surface track
2D70** Feeder (Left) for Surface track



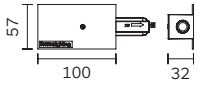
2D72** L Connector (Right) for Surface track
2D73** L Connector (Left) for Surface track



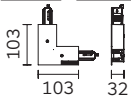
2D77** T Connector (Right) for Surface track
2D78** T Connector (Left) for Surface track



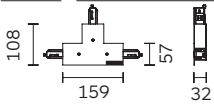
2D74** Feeder (Right) for Recessed track
2D75** Feeder (Left) for Recessed track



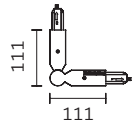
2D79** L Connector (Right) for Recessed track
2D80** L Connector (Left) for Recessed track



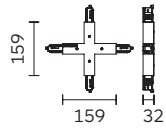
2D81** T Connector (Right) for Recessed track
2D82** T Connector (Left) for Recessed track



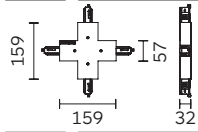
2D76** Flexible Connector for Surface track



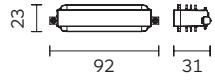
2D83** X Connector for Surface track



2D84** X Connector for Recessed track



2D71** Concealed Connector



2104** End Cap

Notes:

* Available in colours 10, 11, 75.
** Available in colours 10 & 11.

Symbols & Icons
Code system
Global presence

Symbols & Icons

Trim Round	
Trim Square	
Trimless Round	
Trimless Square	
Round ceiling cut	
Square ceiling cut	
Zoom	

The CE mark signifies that a product conforms with the relevant ECC directives requirements. The CE marking is compulsory to indicate LVD and EMC conformity.

The CE mark is also a self certification that the manufacter claims that the product is safe. The value of such claim is directly related to thecase of FormaLighting: All products are designed, developed, manufactured under the scope of ISO 9001 quality systems.

All formaLighting products are tested in Europe and certified by an independent laboratory that is registered and audited by an approved European testing authority.

Others third party product approvals

Our products include electrical and electronic components that carry other world wide Test House approvals such as those shown:

CLASS I
Luminaires of insulation Class I - with earth connector.

CLASS II
Luminaires of insulation Class II - With safety isolation, this means the tension conductions element are protected by additional isolation.
The isolation of an earth wire it is not necessary and the connection to it is not allowed.

CLASS III
Luminaires of isolation Class III - designed for operation of protected low voltage supplied (>42V).

Passes the 850C glow wire test in accordance with ICE 695-2-1.	850°
Degree of Ingress Protection*	IP_ _

Recyclable	
Dim2Warm	
Tuneable White	
RGB / W	RGB/W
CASAMBI	CASAMBI

IP_ _ Degree of Ingress Protection

1st Number	Protection Against Dust and Solid Objects	2nd Number	Protection Against Moisture and Liquids
0	No-Protection	**0**	No-Protection
1	Protection agains solid objects >50 mm	**1**	Protection against dripping water
2	Protection agains solid objects >12 mm	**2**	Protection against dripping water tilted > 15 deg
3	Protection agains solid objects >2.5 mm	**3**	Protection against spraying water > 30 deg
4	Protection agains solid objects >1 mm	**4**	Protection against spraying water
5	Dust - protected	**5**	Protection against water jet
6	Dust - tight	**6**	Protection against waves
		7	Protection against the effects of immersion
		8	Protection against submersion

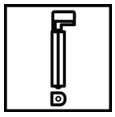
LEDs in formalighting Luminaires

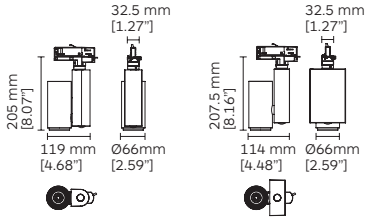
Lumenetix
Citizen
Cree
Luminus
Osram
Nichia

Code system

Code ordering example: **M 6 2 1 I C 3 2 - 9 0 3 0 1 5 D L 1 0**

- Body colour
- Dimming options & Driver box type
- Beam angle
- CCT-LED Colour temperature
- LED CRI
- Light source code
- Product code

	Driver box type options	
	Type D	**Type S**
Dimming options		
Laser Dim	**DL**	
CASAMBI	**DC**	
DMX	**DX**	**SX**
Dali		**SA**
0 - 10 Dim	**D1**	



LED CRI	
90	CRI > 90
95	CRI > 95

Driver Options		
DL		Laser Dim
DC		CASAMBI
DX	**SX**	DMX
	SA	Dali Dim
D1		0 - 10 Dim

CCT-LED Colour temperature	
27	Warm White 2700K
30	Warm White 3000K
40	Neutral White 4000K
DW	Dim2Warm™ 1800-3000K
TW	Tuneable White™ 2700K - 6500K
FS	Full Spectrum

Body Colour	
10	Black (RAL 9004)
11	White (RAL 9003)
***17**	Black (RAL 9004) / White (RAL 9003) (B&W)
27	Chrome Polished
35	Gold
75	Grey (RAL 9006)
29	Grey (for Outdoor use)
84	Stainless steel

Notes:
***17**: white light body with black integrated louvre. For black body with white integrated louvre consult us.

How to order

Product code	Light source code		>CRI	CCT	System power	Delivered lumen	Beam angle (BA°)	Driver & Box Type Options (D / S)			Finish
Moto -Zero 66	**M621**	**IC32** COB LED	**90**	**30** 3000K	26W	2230lm	**15 / 23 / 47**	**DL**		Laser Dim	**10** ■ Black
								DC		CASAMBI	**11** □ White
									SA	DALI Dim	
								D1		0 - 10 Dim	
								DX	**SX**	DMX	

Product code	**M621**
Light source code	**IC32**
LED CRI	**90**
CCT-LED colour temperature	**30**
Beam angle	**15**
Dimming & box type options	**DL**
Body colour	**10**

All dimensions in the catalogue in mm & inches

Global presence

Celebrating 50 years of vision, dedication and innovation, Formalighting's versatile and high-quality product offerings extends internationally via our headquarters in Hong Kong, London, Milan, Shanghai and the USA.
Our well chosen and selected partners as well as our affiliated international offices broaden our global presence further in markets such as Australia, Japan, South East Asia, India and the Middle East.

Through our commitment to growth and investment within formalighting's professional team, infrastructure and product ranges, we are able to provide increasing service to our global retail and hospitality clients as well as lighting designers and specifiers strengthening our position as a leading international supplier of innovative architectural lighting solutions and systems.

With 50 years' experience in designing and manufacturing architectural lighting, formalighting's comprehensive portfolio offers a competitive range of European designed and expertly engineered products that carry CB, CE, CCC and UL certifications.

Furthermore formalighting's latest award-winning motorized range of track, pendant, and recessed fixtures, featuring remote-controlled adjustable pan and tilt, dim, dim to warm, tuneable white and beam shaping lens, are available worldwide incorporating the latest, most advanced lighting technologies.

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USA / New York

Tel (+ 1) 470 419 4003

E- mail info.us@formalighting.com

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Technical information on the installation-instruction has precedence over the information in the catalogue.
Our general terms and conditions shall apply notwithstanding any stipulation on the contrary to all the orders and agreement with formalighting. You can obtain a copy of these conditions on demand.

Publication date: June 2020
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LONDON

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MILAN

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SHANGHAI

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NEW YORK

formalighting

LV Track

48V Low Voltage Track System

2020 | 21

48V Low Voltage Track System

48V Low Voltage Track System

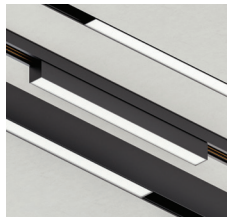
Polaris
Low Voltage

p.10

Polaris Wallwasher
Low Voltage

p.10

Polaris Opal Diffuser
Low Voltage



p.12

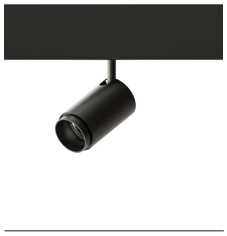
Polaris Extended Arm
Low Voltage

p.14

Zero
Low Voltage

p.16

Zero Long Arm
Low Voltage



p.18

Zero **Zoom**
Low Voltage

p.20

Zero **Zoom** Long Arm
Low Voltage

p.20

Ola
Low Voltage

p.22

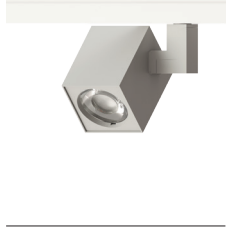
Ola **Zoom**
Low Voltage

p.24

Rolo
Low Voltage

p.26

Dado
Low Voltage



p.26

Conos
Low Voltage

p.28

48V Low Voltage Track System

Polaris
Low Voltage Pendant

p.30

Polaris
Opal Diffuser Low Voltage Pendant

p.32

Pixo
Low Voltage Pendant

p.34

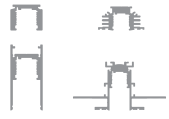
Pixo **Zoom**
Low Voltage Pendant

p.36

Palla
Low Voltage Pendant

p.38

Low Voltage Track
Options



p.40

Accessories

p.42

Power Supply &
Control Options

p.46

Code Ordering
System

p.51

Low Voltage Track, High Performance Luminaires

2ST9
Zero
Zoom
P.20
2ST7
Zero
P.16
Conos
P.28
2ST2
Dado
P.26
Palla
Pendant
P.38
Polaris
P.10
Rolo
P.26
2ST6
Polaris
Wallwasher
P.10
Polaris
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Ola
Zoom
P.24

2020
product
release

formalighting

CASAMBI

New Low Voltage Track System

MOTOLUX

Motorized Architectural Lighting

Formalighting's new 48V low voltage system is a flawless and flexible solution for any environment.
Its miniature dimension helps to maintain a minimalist aesthetic.

The system offers deep recessed, recessed, surface and pendant mounted solutions. Our most popular formalighting and MOTOLUX – architectural motorized lighting – luminaires are now compatible with the 48V LV system.

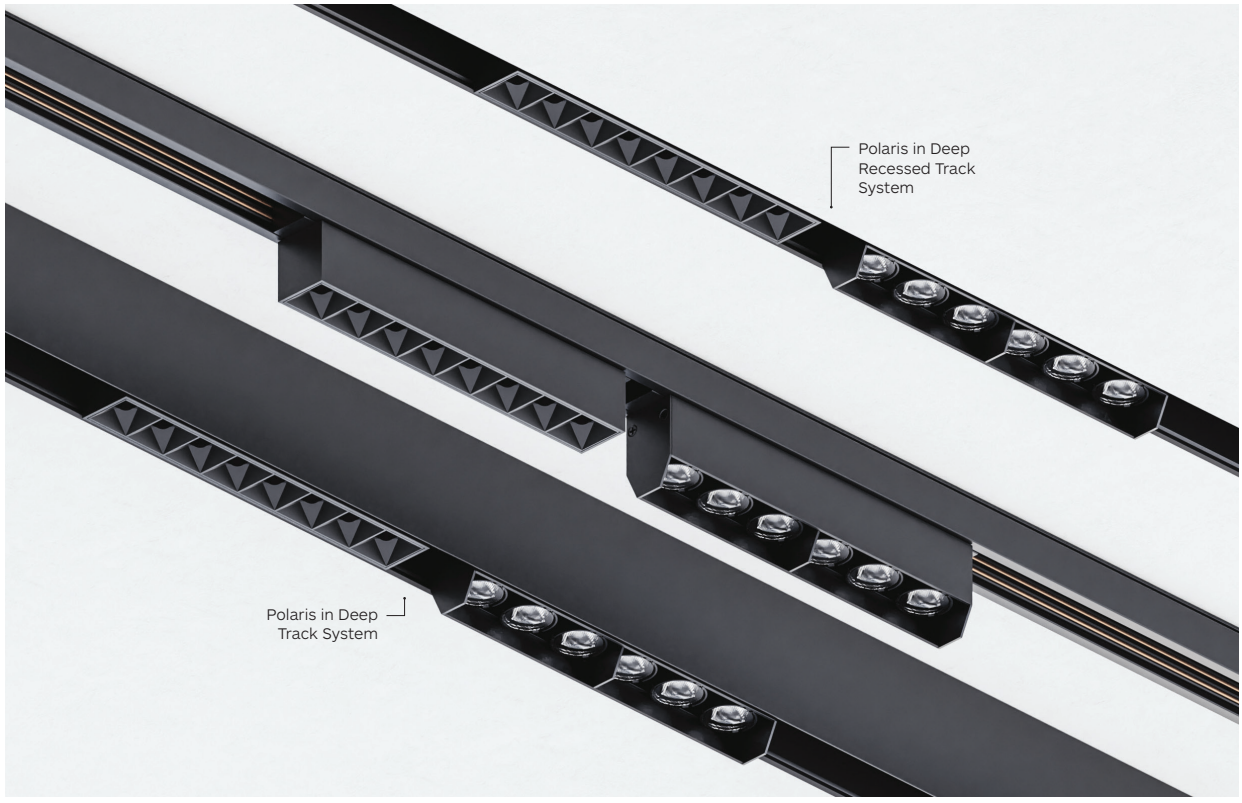
The light modules are easy to insert or to remove from the track and immediately ready to work.

Our comprehensive portfolio also offers different types of optics (lens spot, opal diffuser, wallwasher) and beam angles. Specific solutions, such as beam shaping function, super narrow beam and high CRI performance are also available in the 48V LV system, offering designers more flexibility than any other low voltage system on the market.

www.formalighting.com

Polaris Low Voltage

Low Voltage Track



Body

Track mounted 48V low voltage spotlight with light body in extruded aluminium.

Standard version is inclusive of Integrated diamond faceted no-dazzle screen in thermoplastic. Wallwasher version is inclusive of integrated louvre.

Integrated track adapter, compatible with different models of Stucchi low voltage track system.

Easy to insert and remove from the track.

Available in different configurations.

Accessories

For more information about low voltage track accessories see page 40-45.

Finish

Powder coat in black or white. White version available also with integrated black thermoplastic screen.

LED sources

Light source options: High Power LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI, CCT and Tuneable White options available on request.

Optic

Lens plus thermoplastic screen.
UGR < 16.
Five different beam angles available.
Wallwasher optic available.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Applications

An innovative solution for high brilliance and performance. The light source is barely visible, as the miniature light heads create a high contrast and linear light emission.
Application areas: residential, hotels, restaurants, retail, corridors.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST2
Deep Surface Track
Deep Pendant Track

2ST7
Pendant Track
For Down Side

2ST9
Deep Pendant Track
For Down Side

2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

2ST5
Deep Recessed
Track Trimless

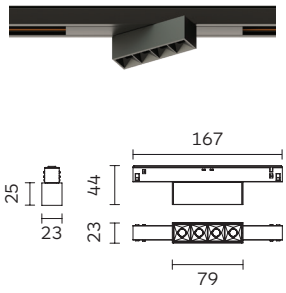
2STA
Deep Recessed
Track Trimless

Polaris 20 Low Voltage &
Polaris 20 Wallwasher Low Voltage

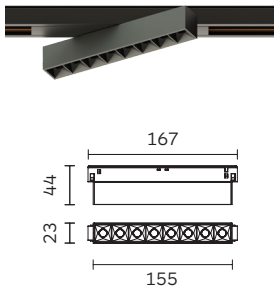
IP20 CE

Polaris 20 Low Voltage

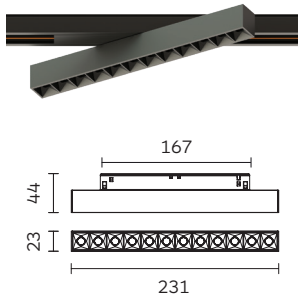
Low Voltage Track with 4 LEDs



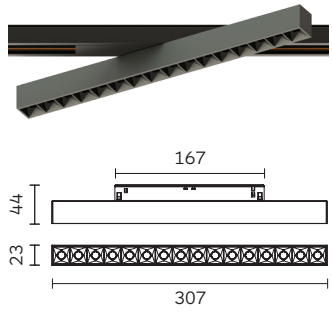
Low Voltage Track with 8 LEDs



Low Voltage Track with 12 LEDs

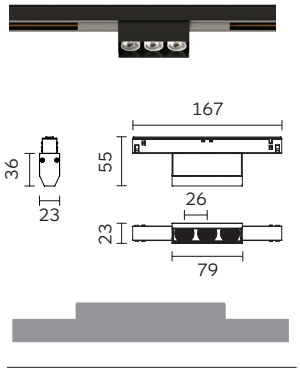


Low Voltage Track with 16 LEDs

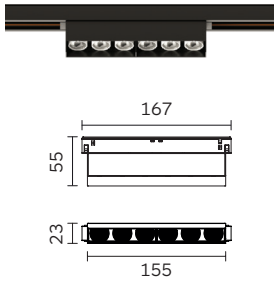


Polaris 20 Wallwasher Low Voltage

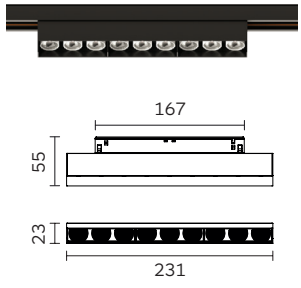
Low Voltage Track with 3 LEDs



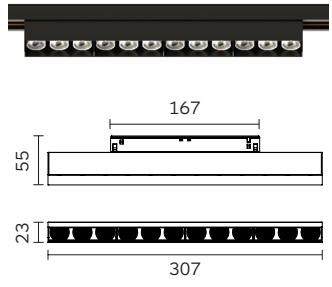
Low Voltage Track with 6 LEDs



Low Voltage Track with 9 LEDs



Low Voltage TracK with 12 LEDs



Code ordering example: **9601BO11-90302 1D010**

	Product Code	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Polaris 20 Low Voltage with 4 LEDs	**9601**	**BO11** High Power LED	**90**	**30** 3000K **40** 4000K	4x1W	520 lm 600 lm	**21 / 33 / 45 / 60**	**D0** No Dim **DA** Dali Dim **DC** CASAMBI **D1** 0-10V Dim	**10** ■ Black **11** □ White **17** ◪ B/W
Polaris 20 Low Voltage with 8 LEDs	**9602**				8x1W	1040 lm 1200 lm			
Polaris 20 Low Voltage with 12 LEDs	**9603**				12x1W	1560 lm 1800 lm			
Polaris 20 Low Voltage with 16 LEDs	**9604**				16x1W	2080 lm 2400 lm			
Polaris 20 Wallwasher Low Voltage with 3 LEDs	**9626**	**BN11** High Power LED			3x1W	384 lm 420 lm	**WW**		**10** ■ Black **11** □ White
Polaris 20 Wallwasher Low Voltage with 6 LEDs	**9627**				6x1W	768 lm 840 lm			
Polaris 20 Wallwasher Low Voltage with 9 LEDs	**9628**				9x1W	1152 lm 1260 lm			
Polaris 20 Wallwasher Low Voltage with 12LEDs	**9629**				12x1W	1536 lm 1680 lm			

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

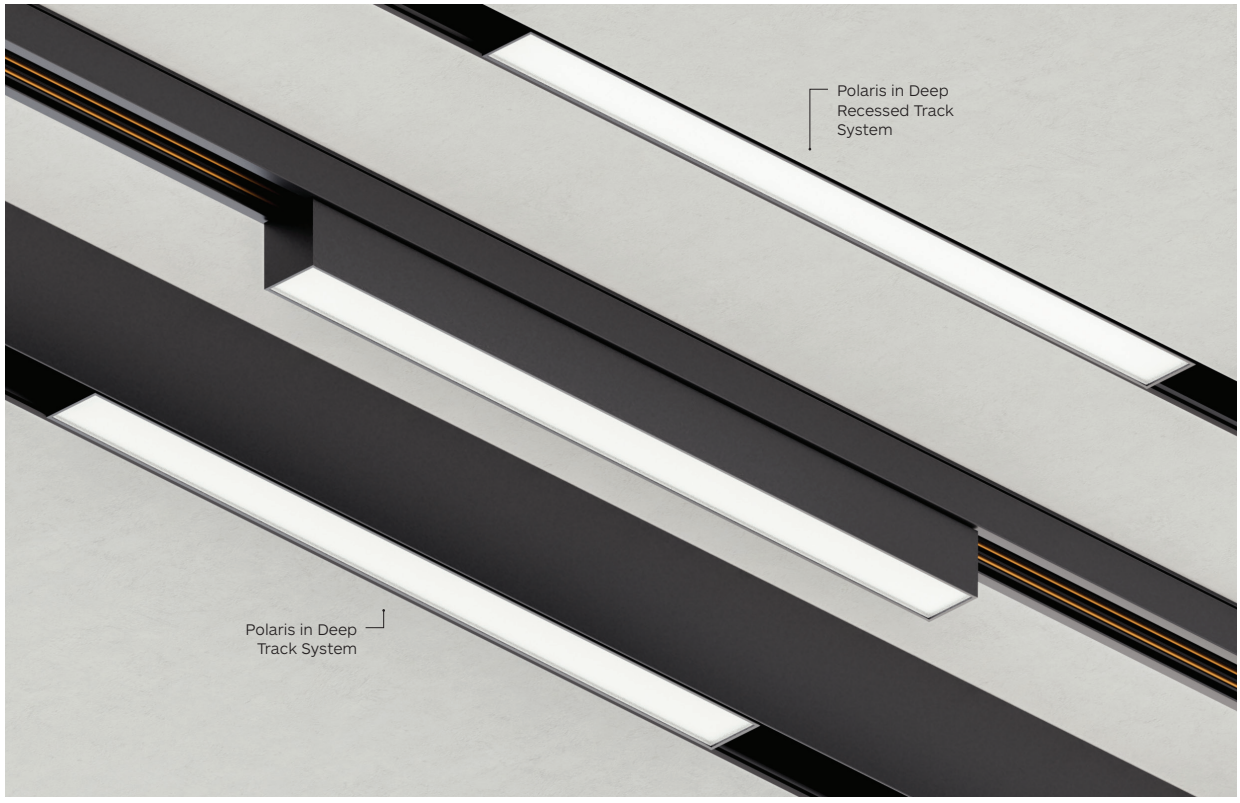
17: white light body with black integrated louvre. For black body with white integrated louvre consult us.

WW: Wallwasher

For the most updated product information, please go to our website.

Polaris Opal Diffuser Low Voltage

Low Voltage Track



Body

Track mounted 48V low voltage spotlight with light body in extruded aluminium inclusive of white opal diffuser for soft and diffuse illumination.

Integrated track adapter, compatible with different models of Stucchi low voltage track system.

Easy to insert and remove from the track.

LED sources

Light source options: High Power LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI, CCT and Tuneable White options available on request.

Optic

Opal diffuser. Extra wide beam angle.

Accessories

For more information about low voltage track accessories see page 40-45.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Finish

Powder coat in black or white.

Applications

An innovative solution for soft and diffuse illumination. The light source is barely visible, as the diffuser helps to create a morbid and uniform light emission.
Application areas: residential, hotels, restaurants, retail, corridors.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST2
Deep Surface Track
Deep Pendant Track

2ST7
Pendant Track
For Down Side

2ST9
Deep Pendant Track
For Down Side

2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

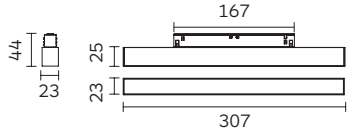
2ST5
Deep Recessed
Track Trimless

2STA
Deep Recessed
Track Trimless

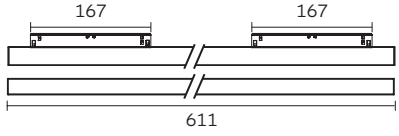
Polaris 20 Opal Diffuser Low Voltage

Polaris 20 Opal Diffuser Low Voltage

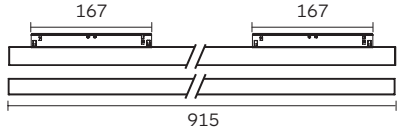
Low Voltage Track L: 307



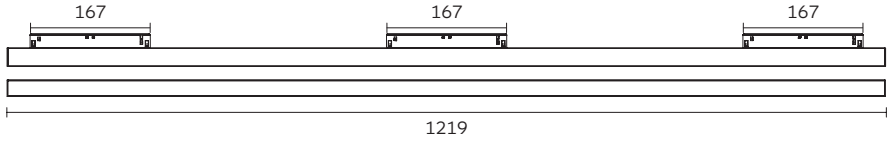
Low Voltage Track L: 611



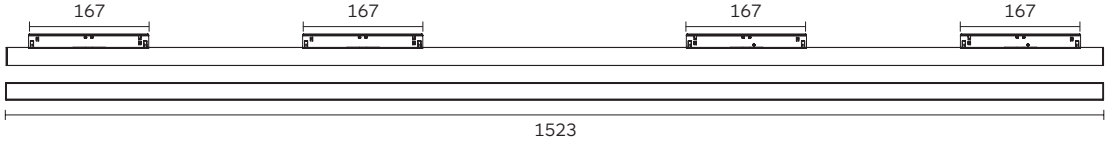
Low Voltage Track L: 915



Low Voltage Track L: 1219



Low Voltage Track L: 1523



Code ordering example: **9 6 0 5 B O 1 1 - 9 0 3 0 O D D 0 1 0**

	Product Code	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Polaris 20 Opal Diffuser Low Voltage L: 307	**9605**	**BO11** High Power LED	**90**	**30** 3000K	16W	2080 lm	**OD** Opal Diffuser	**D0** No Dim	**10** ■ Black
				40 4000K		2400 lm		**DA** Dali Dim	**11** □ White
Polaris 20 Opal Diffuser Low Voltage L: 611	**9606**				32W	4160 lm		**DC** CASAMBI	
						4800 lm		**D1** 0-10V Dim	
Polaris 20 Opal Diffuser Low Voltage L: 915	**9607**				48W	6240 lm			
						7200 lm			
Polaris 20 Opal Diffuser Low Voltage L: 1219	**9608**				64W	8320 lm			
						9600 lm			
Polaris 20 Opal Diffuser Low Voltage L: 1523	**9609**				80W	10400 lm			
						12000 lm			

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

For the most updated product information, please go to our website.

Polaris Extended Arm Low Voltage

Low Voltage Track

Body

Track mounted 48V low voltage spotlight with light body and arm in extruded aluminium inclusive of Integrated diamond faceted no-dazzle screen in thermoplastic.

Integrated track adapter, compatible with different models of Stucchi low voltage track system.

Easy to insert and remove from the track. Versatile aiming angle tiltable vertically 90°.

Available in configurations of multiple of 4 LEDs.

LED sources

Light source options: High Power LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI, CCT and Tuneable White options available on request.

Optic

Lens plus thermoplastic screen.
UGR < 16.
Four different beam angles available.

Accessories

For more information about low voltage track accessories see page 40-45.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Finish

Powder coat in black or white. White version available also with integrated black thermoplastic screen.

Applications

An innovative solution to illuminate object on a wall. A modern alternative to the traditional picture lights.
Application areas: residential, hotels, restaurants, retail, corridors.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST2
Deep Surface Track
Deep Pendant Track

2ST7
Pendant Track
For Up & Down

2ST9
Deep Pendant Track
For Up & Down

2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

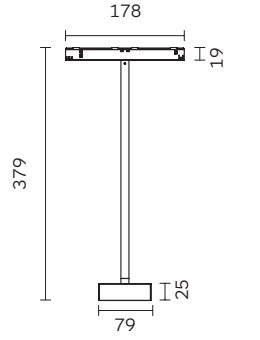
2ST5
Deep Recessed
Track Trimless

2STA
Deep Recessed
Track Trimless

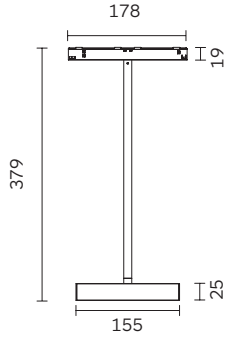
Polaris 20 Extended Arm
Low Voltage

Polaris 20 Extended Arm

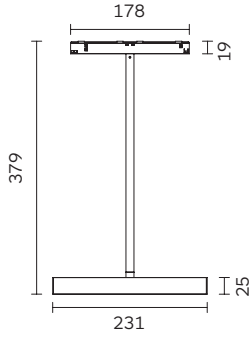
Low Voltage Track with 4 LEDs



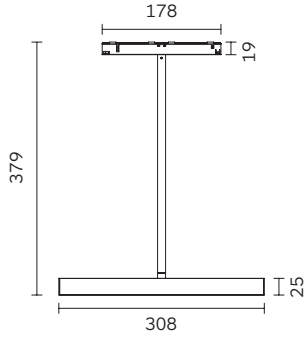
Low Voltage Track with 8 LEDs

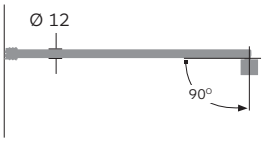


Low Voltage Track with 12 LEDs



Low Voltage Track with 16 LEDs





Code ordering example: **9 6 1 0 B O 1 1 - 9 0 3 0 2 1 D 0 1 0**

	Product Code	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Polaris 20 Extended Arm Low Voltage with 4 LEDs	**9610**	**BO11** High Power LED	**90**	**30** 3000K	4x1W	520 lm	**21 / 33 / 45 / 60**	**D0** No Dim	**10** ■ Black
				40 4000K		600 lm		**DA** Dali Dim	**11** □ White
Polaris 20 Extended Arm Low Voltage with 8 LEDs	**9611**				8x1W	1040 lm		**DC** CASAMBI	**17** ◪ B/W
						1200 lm		**D1** 0-10V Dim	
Polaris 20 Extended Arm Low Voltage with 12 LEDs	**9612**				12x1W	1560 lm			
						1800 lm			
Polaris 20 Extended Arm Low Voltage with 16 LEDs	**9613**				16x1W	2080 lm			
						2400 lm			

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

17: white light body with black integrated louvre. For black body with white integrated louvre consult us.

For the most updated product information, please go to our website.

Zero Low Voltage

Low Voltage Track

Body

Track mounted 48V low voltagespotlight with lighthead and arm in aluminium.

Integrated track adapter, compatible with different models of Stucchi low voltage track system.

Easy to insert and remove from the track. Designed for passive cooling.

Available in three different sizes (40, 66, 100).

Versatile aiming angle tiltable vertically 0°-90° and rotatable horizontally 360°.

Accessories

Coulored filters, linear spred, honeycomb louvre, visor, anti-glare tube.
For more information about low voltage track accessories see page 40-45.

Finish

Powder coat in black or white colour.

LED sources

Light source options: COB LED. High Power LED.
CRI: 90 | CCT: 3000K, 4000K, Tuneable White.
Other CRI and CCT options available on request.

Optic

Lens.
Super narrow (7°), narrow, medium and wide beam angle available.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Applications

A modern design consisting for the purpose to meet the highest requirements of the latest advanced lighting technology.
Application areas: retail, museums, hospitality, residential, offices, lobbies.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

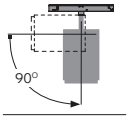
2ST7
Pendant Track
For Up & Down

2ST9
Deep Pendant Track
For Up Side

2ST8
Recessed Track
Trim

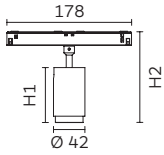
2ST3
Recessed Track
Trimless

Zero Low Voltage



Zero 40 Low Voltage

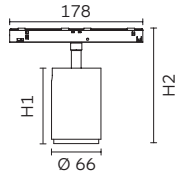
Low Voltage Track



Light Source code	H1 in mm	H2 in mm
BR21	73	121
BC31	73	121
BU11	102	150

Zero 66 Low Voltage

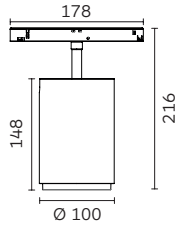
Low Voltage Track



Light Source code	H1 in mm	H2 in mm
BR21	101	150
BC22	101	150
IU21	101	150
GU53	118	168

Zero 100 Low Voltage

Low Voltage Track



Code ordering example: **9 6 1 4 B R 2 1 - 9 0 3 0 0 7 D 0 1 0**

	Product Code	Light Source Code*		>CRI	CCT**		LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Zero 40 Low Voltage	**9614**	**BR21**	High Power LED	**90**	**30**	3000K	4W	400 lm	**07 / 24 / 36**	**D0**	No Dim	**10** ■ Black
					40	4000K		430 lm		**DA**	Dali Dim	**11** □ White
		BC31	COB LED				6W	630 lm	**16 / 26 / 36**	**DC**	CASAMBI	
								650 lm		**D1**	0-10V Dim	
		BU11	TW COB LED		**TW**	2700K-6500K	7W	710 lm	**18 / 28 / 40**			
Zero 66 Low Voltage	**9615**	**BR21**	High Power LED		**30**	3000K	6W	530 lm	**05**			
					40	4000K		580 lm				
		BC22	COB LED				12W	1550 lm	**16 / 25 / 36**			
								1570 lm				
		IU21	TW COB LED		**TW**	2700K-6500K	13W	1290 lm	**16 / 25 / 48**			
		GU53	Retrofit MR16-GU5.3	**00**	**00**		/	/	**00**			
Zero 100 Low Voltage	**9616**	**BR21**	4xHigh Power LED	**90**	**30**	3000K	21W	1862 lm	**07 / 24 / 36**			
					40	4000K		1920 lm				
		BC33	COB LED				21W	2280 lm	**15 / 23 / 36**			
								2490 lm				
		IU31	TW COB LED		**TW**	2700K-6500K	19W	1900 lm	**20 / 29 / 41**			

Optical Accessories

Product / Optical Accessories	Coloured Filters Colours 25, 42, 55, 85	Linear Spread Colour 41	Honeycomb Louvre Colour 10	Visor Colours 10, 17	Anti-glare Tube Colours 10, 17
Zero 66 Low Voltage	**2D63#**	**2D62#**	**2C65**	**2D94**	**2D67**
Zero 100 Low Voltage	**2E10#**	**2E12#**	**2C66**	**2E14**	**2E16**

With holder

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

For the most updated product information, please go to our website.

Zero Low Voltage

Long Arm for Low Voltage Track

Body

Zero with long arm is track mounted 48V low voltage spotlight with lighthead and arm in aluminium.

Integrated track adapter, compatible with different models of Stucchi low voltage deep track system.

Easy to insert and remove from the track. Designed for passive cooling.

Available in three different sizes (40, 66, 100).

Versatile aiming angle tiltable vertically 0°-90° and rotatable horizontally 360°.

Accessories

Coulored filters, linear spred, honeycomb louvre, visor, anti-glare tube.
For more information about low voltage track accessories see page 40-45.

Finish

Powder coat in black or white colour.

LED sources

Light source options: COB LED. High Power LED.
CRI: 90 | CCT: 3000K, 4000K, Tuneable White.
Other CRI and CCT options available on request.

Optic

Lens.
Super narrow (7°), narrow, medium and wide beam angle available.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Applications

A modern design consisting for the purpose to meet the highest requirements of the latest advanced lighting technology.
Application areas: retail, museums, hospitality, residential, offices, lobbies.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST2
Deep Surface Track
Deep Pendant Track

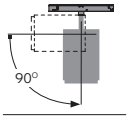
2ST9
Deep Pendant Track
For Up & Down

2ST5
Deep Recessed
Track Trimless

2STA
Deep Recessed
Track Trimless

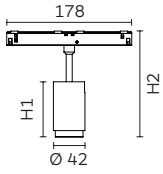
Zero Low Voltage

Long Arm



Zero 40 Low Voltage

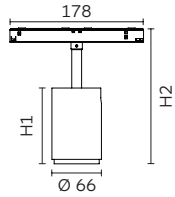
With Long Arm for Low Voltage Track



Light Source code	H1 in mm	H2 in mm
BR21	73	142
BC31	73	142
BU11	102	171

Zero 66 Low Voltage

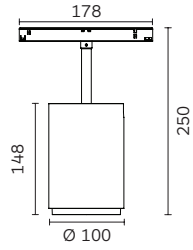
With Long Arm for Low Voltage Track



Light Source code	H1 in mm	H2 in mm
BR21	101	180
BC22	101	180
IU21	101	180
GU53	118	198

Zero 100 Low Voltage

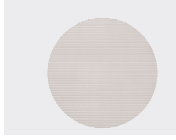
With Long Arm for Low Voltage Track

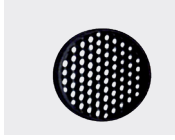


Code ordering example: **9631 BR21 - 90 30 07 D0 10**

	Product Code	Light Source Code*		>CRI	CCT**		LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Zero 40 Low Voltage with Long Arm	**9631**	**BR21**	High Power LED	**90**	**30**	3000K	4W	400 lm	**07 / 24 / 36**	**D0**	No Dim	**10** ■ Black
					40	4000K		430 lm		**DA**	Dali Dim	**11** □ White
		BC31	COB LED				6W	630 lm	**16 / 26 / 36**	**DC**	CASAMBI	
								650 lm		**D1**	0-10V Dim	
		BU11	TW COB LED		**TW**	2700K-6500K	7W	710 lm	**18 / 28 / 40**			
Zero 66 Low Voltage with Long Arm	**9632**	**BR21**	High Power LED		**30**	3000K	6W	530 lm	**05**			
					40	4000K		580 lm				
		BC22	COB LED				12W	1550 lm	**16 / 25 / 36**			
								1570 lm				
		IU21	TW COB LED		**TW**	2700K-6500K	13W	1290 lm	**16 / 25 / 48**			
		GU53	Retrofit MR16-GU5.3	**00**	**00**		/	/	**00**			
Zero 100 Low Voltage with Long Arm	**9634**	**BR21**	4xHigh Power LED	**90**	**30**	3000K	21W	1862 lm	**07 / 24 / 36**			
					40	4000K		1920 lm				
		BC33	COB LED				21W	2280 lm	**15 / 23 / 36**			
								2490 lm				
		IU31	TW COB LED		**TW**	2700K-6500K	19W	1900 lm	**20 / 29 / 41**			

Optical Accessories





Product / Optical Accessories	Coloured Filters Colours 25, 42, 55, 85	Linear Spread Colour 41	Honeycomb Louvre Colour 10	Visor Colours 10, 17	Anti-glare Tube Colours 10, 17
Zero 66 Low Voltage with Long Arm	**2D63#**	**2D62#**	**2C65**	**2D94**	**2D67**
Zero 100 Low Voltage with Long Arm	**2E10#**	**2E12#**	**2C66**	**2E14**	**2E16**

With holder

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

For the most updated product information, please go to our website.

Zero Zoom Low Voltage

Low Voltage Track

Body

Track mounted 48V low voltagespotlight with lighthead and arm in cast aluminium.

Integrated track adapter, compatible with different models of Stucchi low voltage track system.

Easy to insert and remove from the track. Beam Angle manually adjustable trough ring rotation, from 10° to 35°.

Designed for passive cooling.

Versatile aiming angle tiltable vertically 0°-90° and rotatable horizontally 360°.

Accessories

For more information about low voltage track accessories see page 40-45.

Finish

Powder coat in black or white colour.

LED sources

Light source options: COB LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options available on request.

Optic

Lens.
Adjustable beam angle (10-35°)

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Applications

A modern design consisting for the purpose to meet the highest requirements of the latest advanced lighting technology.
Application areas: retail, museums, hospitality, residential, offices, lobbies.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST2 *(For 9633)*
Deep Surface Track
Deep Pendant Track

2ST7
Pendant Track
For Down Side

2ST9
Deep Pendant Track
For Down Side (9617)
For Up & Down (9633)

2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

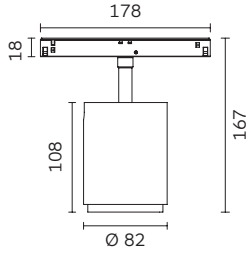
2ST5 *(For 9633)*
Deep Recessed Track
Trimless

2STA *(For 9633)*
Deep Recessed Track
Trimless

Zero Zoom 80 Low Voltage

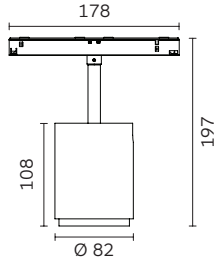
Zero Zoom 80 Low Voltage

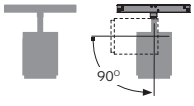
Low Voltage Track



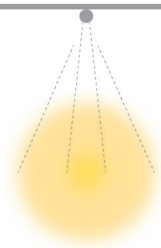
Zero Zoom 80 Low Voltage

With Long Arm for Low Voltage Track





Zoom Spotlights



Zoom Spot 10° - 35°

Code ordering example: **9 6 1 7 B C 3 1 - 9 0 3 0 B S D 0 1 0**

	Product Code	Light Source Code*		>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Zero **Zoom** 80 Low Voltage	**9617**	**BC31**	COB LED	**90**	**30** 3000K	11W	1160 lm	**BS** (10-35°)	**D0**	No Dim	**10** ■ Black
					40 4000K		1260 lm		**DA**	Dali Dim	**11** □ White
Zero **Zoom** 80 Low Voltage with Long Arm	**9633**								**DC**	CASAMBI	
									D1	0-10V Dim	

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

For the most updated product information, please go to our website.

BS: Beam shaping, Beam Angle: 10-35°, 35° field angle.

Ola Low Voltage

Low Voltage Track

Body

Track mounted 48V low voltage spotlight with lighthead and arm in cast aluminium. Integrated track adapter, compatible with different models of Stucchi low voltage track system.

Easy to insert and remove from the track.Lighthead designed for passive cooling.

Available in three different sizes.

Versatile aiming angle tiltable vertically 0°-90° in two directions and rotatable horizontally 360°.

Accessories

For more information about low voltage track accessories see page 40-45.

Finish

Powder coat in black or white colour.

LED sources

Light source options: COB LED. High Power LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options available on request.

Optic

Lens.
Super narrow (7°), narrow, medium, wide and wallwasher beam angle available.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Applications

A chic and alluring light fixture, designed by formalighting's passionate engineers. His circular shaped classic design easily integrated into various architectural environments.
Application areas: retail, museums, residential, restaurants.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST7
Pendant Track
For Down Side

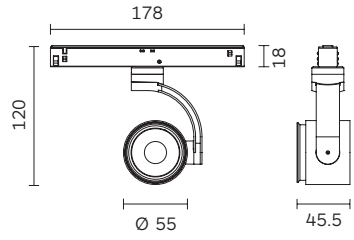
2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

Ola Low Voltage

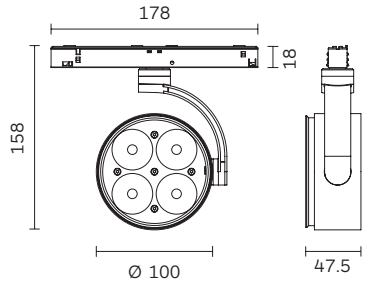
Ola 55 Low Voltage

Low Voltage Track



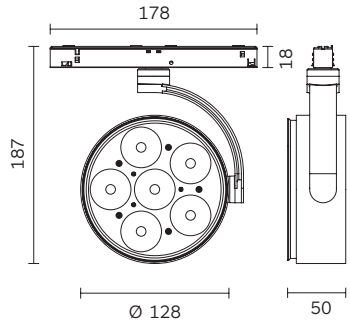
Ola 100 Low Voltage

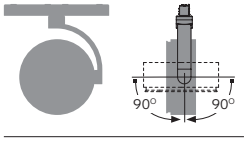
Low Voltage Track



Ola 130 Low Voltage

Low Voltage Track





Code ordering example: **9 6 1 8 B C 2 2 - 9 0 3 0 1 8 D 0 1 0**

	Product Code	Light Source Code*		>CRI	CCT**		LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Ola 55 Low Voltage Track	**9618**	**BC22**	COB LED	**90**	**30**	3000K	9W	1140 lm	**18 / 24 / 36**	**D0**	No Dim	**10** ■ Black
					40	4000K		1270 lm		**DA**	Dali Dim	**11** □ White
		BR21	High Power LED				4W	400 lm	**07**	**DC**	CASAMBI	
								430 lm		**D1**	0-10V Dim	
Ola 100 Low Voltage Track	**9619**	**BC33**	COB LED				17W	1934 lm	**15 / 24 / 38**			
								2041 lm				
		BR21	4xHigh Power LED				16W	1760 lm	**07 / 24 / 36**			
								1930 lm				
Ola 130 Low Voltage Track	**9620**	**BC33**	COB LED				25W	2760 lm	**12 / 22 / 32**			
								3000 lm				
		BR11	12x Mid Power LED				24W	2550 lm	**10 / 23 / 46 / WW**			
								2730 lm				
		BR21	6x High Power LED				20W	2320 lm	**07 / 24 / 36**			
								2560 lm				

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

WW: Wallwasher

For the most updated product information, please go to our website.

Ola Zoom Low Voltage

Low Voltage Track

Body

Track mounted 48V low voltage spotlight with lighthead and arm in cast aluminium.

Integrated track adapter, compatible with different models of Stucchi low voltage track system.

Easy to insert and remove from the track.Lighthead designed for passive cooling. Beam Angle manually adjustable trough ring rotation, from 10° to 35°.

Versatile aiming angle tiltable vertically 0°-90° in two directions and rotatable horizontally 360°.

Accessories

For more information about low voltage track accessories see page 40-45.

Finish

Powder coat in black or white colour.

LED sources

Light source options: COB LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options available on request.

Optic

Lens.
Adjustable beam angle (10-35°)

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Applications

A chic and alluring light fixture, designed by formalighting's passionate engineers. His circular shaped classic design easily integrated into various architectural environments.
Application areas: retail, museums, residential, restaurants.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST7
Pendant Track
For Down Side

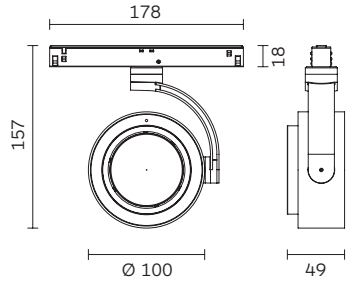
2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

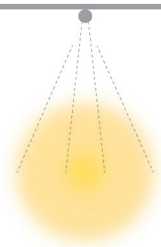
Ola Zoom 100 Low Voltage

Ola Zoom 100 Low Voltage

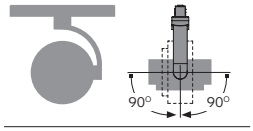
Low Voltage Track



Zoom Spotlights



Zoom Spot 10° - 35°



Code ordering example: **9 6 2 1 B C 3 1** - **9 0 3 0 B S D 0 1 0**

	Product Code	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Ola **Zoom** 100 Low Voltage	**9621**	**BC31** COB LED	**90**	**30** 3000K	11W	1160 lm	**BS** (10-35°)	**D0** No Dim	**10** ■ Black
				40 4000K		1260 lm		**DA** Dali Dim	**11** □ White
								DC CASAMBI	
								D1 0-10V Dim	

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

For the most updated product information, please go to our website.

BS: Beam shaping, Beam Angle: 10-35°, 35° field angle.

Rolo & Dado Low Voltage

Low Voltage Track

Body

Track mounted 48V low voltage spotlights with light-head and arm in cast aluminium.

Integrated track adapter, compatible with different models of Stucchi low voltage track system.

Easy to insert and remove from the track.

Versatile aiming angle tiltable vertically 0°-90° in two directions and rotatable horizontally 360°.

LED sources

Light source options: COB LED. High Power LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options available on request.

Optic

Lens.
Narrow, medium and wide beam angle available.

Accessories

For more information about low voltage track accessories see page 40-45.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Finish

Powder coat in black, white or grey colour.

Applications

A versatile and very directional tiny spotlight. The very compact sizes make it ideal for applications where the distance between ceiling and spot is an issue.
Application areas: retail, museums, residential, hospitality, window displays.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST7
Pendant Track
For Down Side

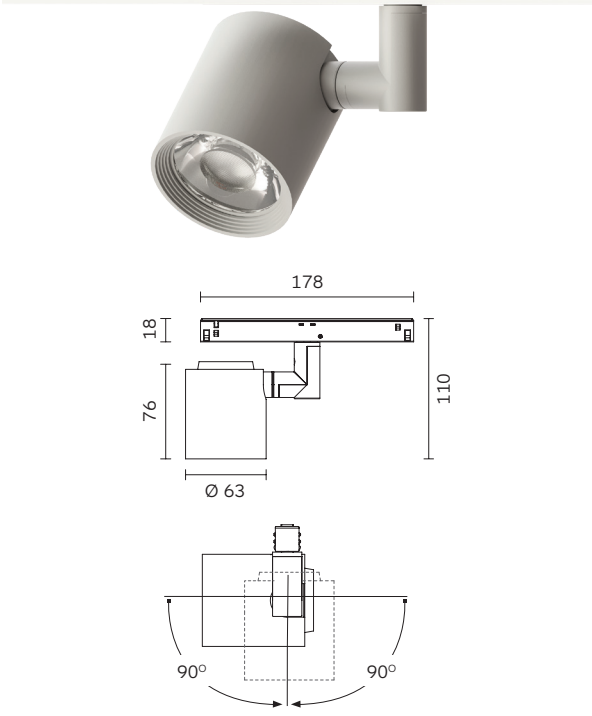
2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

Rolo Low Voltage & Dado Low Voltage

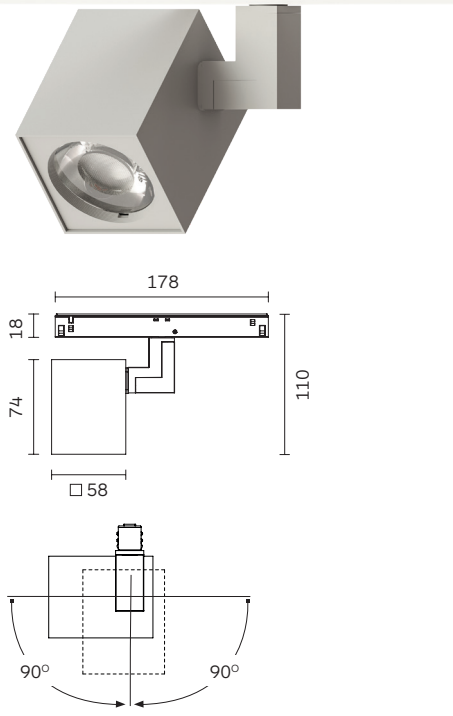
Rolo Low Voltage

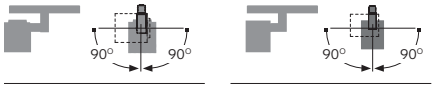
Low Voltage Track



Dado Low Voltage

Low Voltage Track





Code ordering example: **9624BR21-90 30 07 D0 10**

	Product Code	Light Source Code*		>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Rolo Low Voltage	**9624**	**BR21**	High Power LED	**90**	**30** 3000K	4W	400lm	**07**	**D0**	No Dim	**10** ■ Black
Dado Low Voltage	**9625**				**40** 4000K		430lm		**DA**	Dali Dim	**11** □ White
		BC31	COB LED			11W	1080lm	**11 / 16 / 32**	**DC**	CASAMBI	**75** ■ Grey
							1180lm		**D1**	0-10V Dim	
		GU53#1	Retrofit MR16-GU5.3	**00**	**00**	/	/	**00**			

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

#1 GU5.3 Retrofit LED bulb not included, max power 12W.

For the most updated product information, please go to our website.

Conos Low Voltage

Low Voltage Track

Body

Track mounted 48V low voltage spotlight with light-head and arm in cast aluminium.

Integrated track adapter, compatible with different models of Stucchi low voltage track system.

Easy to insert and remove from the track. Equipped with super pure aluminium reflector.

Versatile aiming angle tiltable vertically 0°-90° and rotatable horizontally 360°.

LED sources

Light source options: COB LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options available on request.

Optic

Lens.
Narrow, medium and wide beam angle available.

Accessories

Honeycomb louvre.
For more information about low voltage track accessories see page 40-45.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Finish

Powder coat in black, white or grey colour.

Applications

A concept in spotlight design with continuous line applications for the benefit of increasing the possibility of display lighting. ideal fitting to illuminate small spaces.
Application areas: retail, museums, residential, hospitality, window displays.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST2
Deep Surface Track
Deep Pendant Track

2ST7
Pendant Track
For Up & Down

2ST9
Deep Pendant Track
For Up & Down

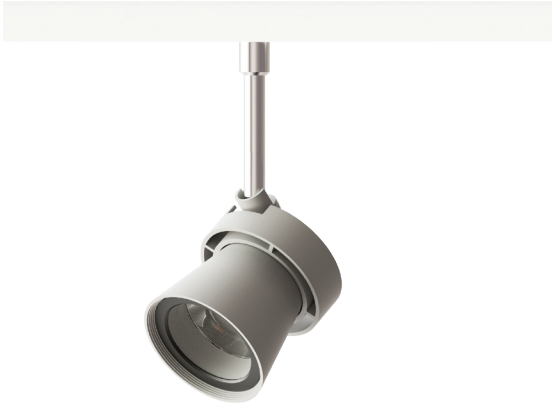
2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

2ST5
Deep Recessed
Track Trimless

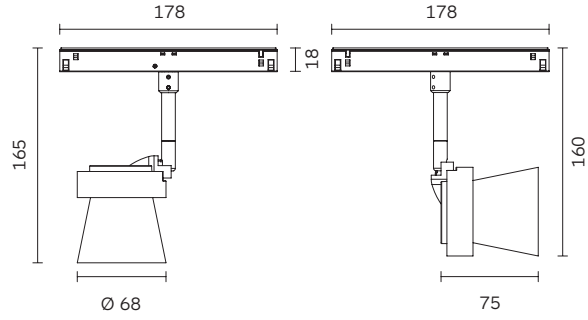
2STA
Deep Recessed
Track Trimless

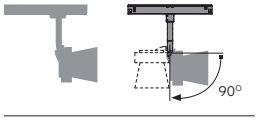
Conos 68 Low Voltage

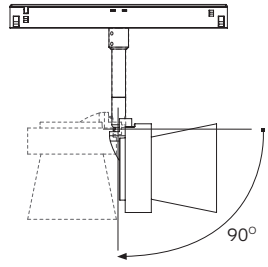


Conos 68 Low Voltage

Low Voltage Track



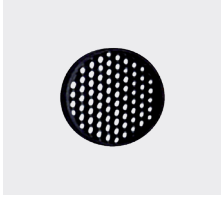




Code ordering example: **9 6 2 3 B C 3 1 - 9 0 3 0 1 1 D 0 1 0**

	Product Code	Light Source Code*		>CRI	CCT	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Conos 68 Low Voltage	**9623**	**BC31**	COB LED	**90**	**30** 3000K	11W	1080 lm	**11 / 16 / 32**	**D0**	No Dim	**10** ■ Black
					40 4000K		1180 lm		**DA**	Dali Dim	**11** □ White
		GU53#1	Retrofit MR16-GU5.3	**00**	**00**	/	/	**00**	**DC**	CASAMBI	**75** ▒ Grey
									D1	0-10V Dim	

Optical Accessories



Product / Optical Accessories	Honeycomb Louvre Colour 10
Conos 68 Low Voltage Track	**2B95**

With holder

Notes:

* For complete code ordering information, please see page 51.

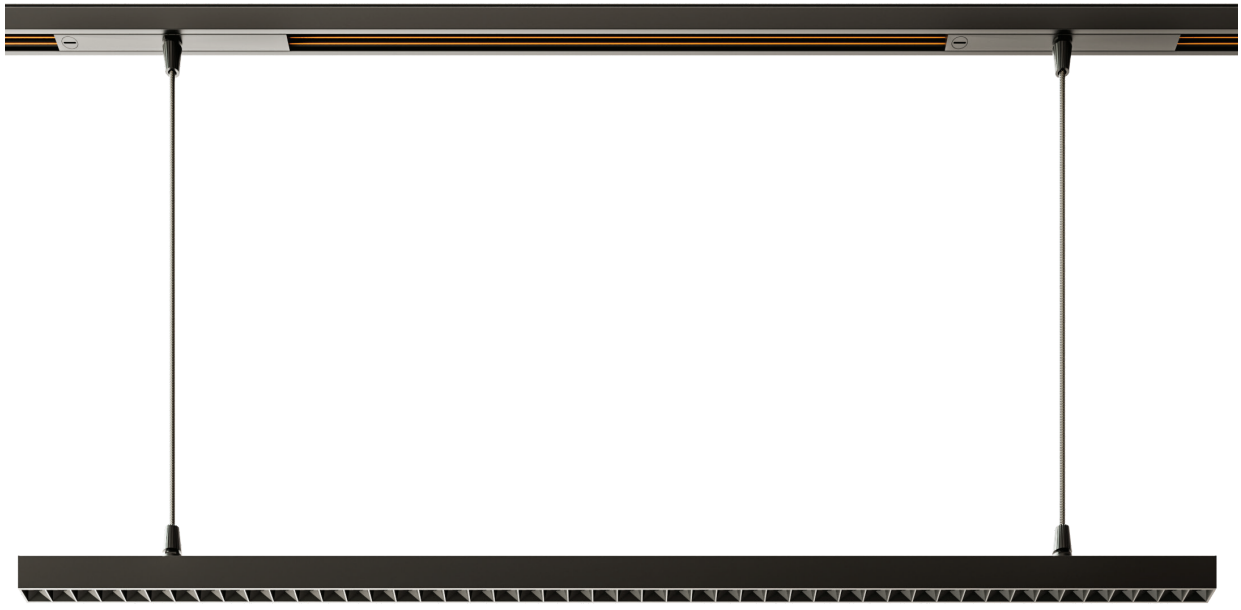
** For other CCT options, please contact us.

#1 GU5.3 Retrofit LED bulb not included, max power 12W.

For the most updated product information, please go to our website.

Polaris Low Voltage

Low Voltage Track Pendant



Body

Pendant luminaire for 48V low voltage track systems with light body in extruded aluminium inclusive of integrated diamond faceted no-dazzle screen in thermoplastic.

Supplied with integrated track adapter, compatible with different models of Stucchi low voltage track system, and 2 x 1.5m pendant wires.

Easy to insert and remove from the track.

Available in configurations of multiple of 4.

LED sources

Light source options: High Power LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI, CCT and Tuneable White options available on request.

Optic

Lens plus thermoplastic screen.
UGR < 16.
Four different beam angles available.

Accessories

For more information about low voltage track accessories see page 40-45.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Finish

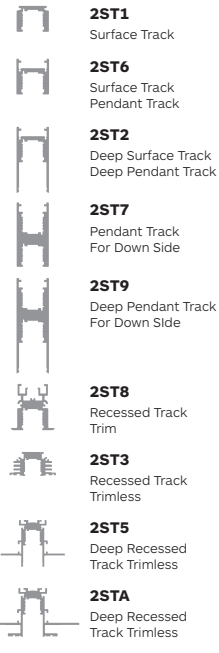
Powder coat in black or white. White version available also with integrated black thermoplastic screen.

Applications

An innovative solution for high brilliance and performance. The light source is barely visible, as the miniature light heads create a high contrast and linear light emission.
Application areas: residential, hotels, restaurants, retail, corridors.

Compatible with Low Voltage Track Types

Please see P.40-41 for details



2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST2
Deep Surface Track
Deep Pendant Track

2ST7
Pendant Track
For Down Side

2ST9
Deep Pendant Track
For Down SIde

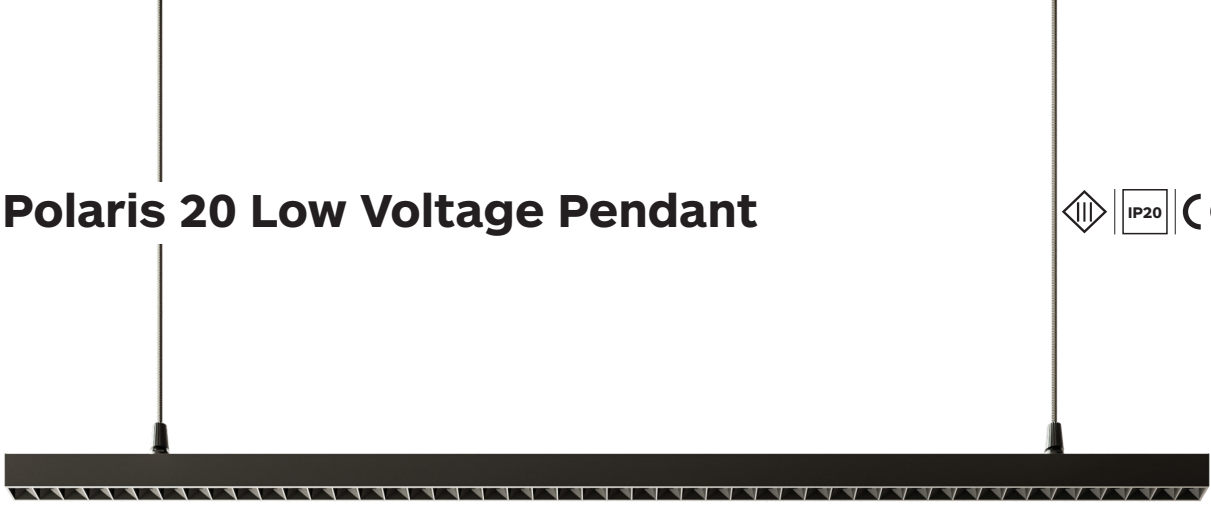
2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

2ST5
Deep Recessed
Track Trimless

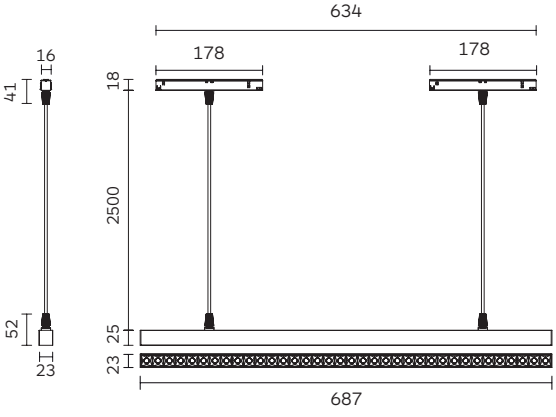
2STA
Deep Recessed
Track Trimless

Polaris 20 Low Voltage Pendant

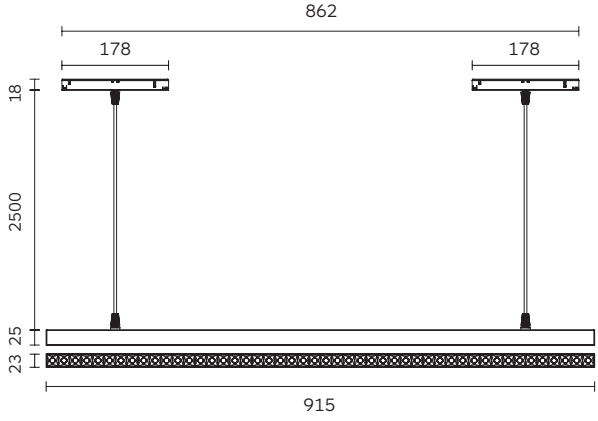


Polaris 20

Low Voltage Track Pendant with 36 LEDs



Low Voltage Track Pendant with 48 LEDs



Code ordering example: **9 7 1 2 B O 1 1 - 9 0 3 0 2 1 D 0 1 0**

	Product Code	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Polaris 20 Low Voltage Pendant with 36 LEDs	**9712**	**BO11** High Power LED	**90**	**30** 3000K	36x1W	4680 lm	**21 / 33 / 45 / 60**	**D0**	No Dim	**10** ■ Black
				40 4000K		5400 lm		**DA**	Dali Dim	**11** □ White
Polaris 20 Low Voltage Pendant with 48 LEDs	**9713**				48x1W	6240 lm		**DC**	CASAMBI	**17** ◪ B/W
						7200 lm		**D1**	0-10V Dim	

Notes:

* For complete code ordering information, please see page 51.

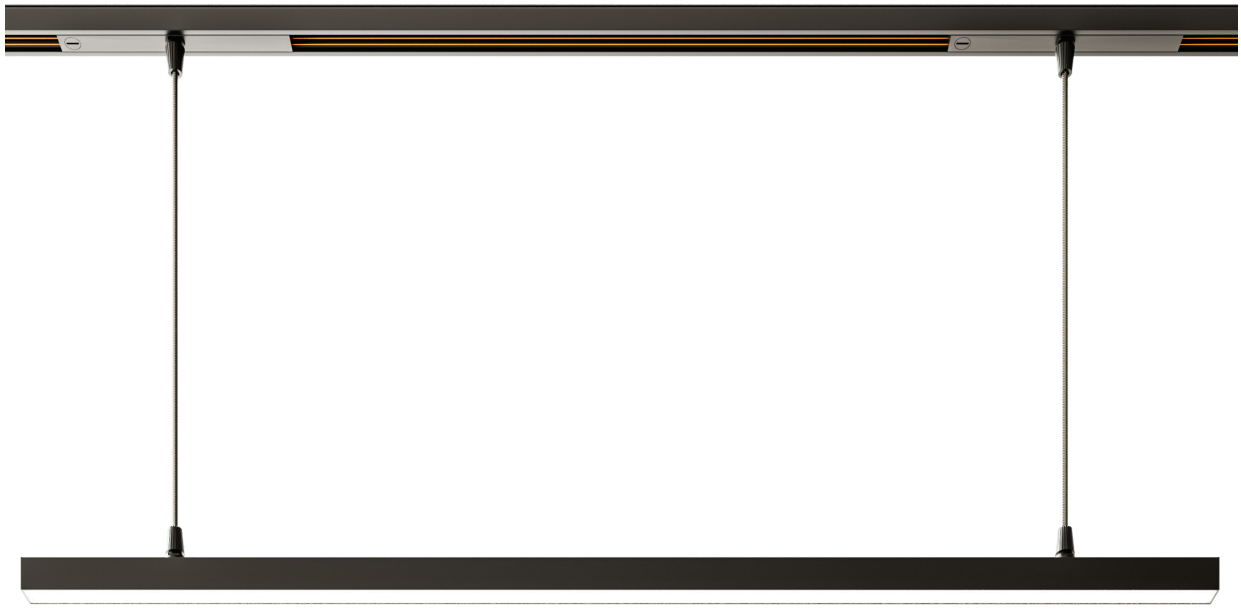
** For other CCT options, please contact us.

17: white light body with black integrated louvre. For black body with white integrated louvre consult us.

For the most updated product information, please go to our website.

Polaris Opal Diffuser Low Voltage

Low Voltage Track Pendant



Body

Pendant luminaire for 48V low voltage track systems with light body in extruded aluminium inclusive of white opal diffuser for soft and diffuse illumination.

Supplied with integrated track adapter, compatible with different models of Stucchi low voltage track system, and 2 x 1.5m pendant wires.

Easy to insert and remove from the track.

LED sources

Light source options: High Power LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI, CCT and Tuneable White options available on request.

Optic

Opal diffuser. Extra wide beam angle.

Accessories

For more information about low voltage track accessories see page 40-45.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Finish

Powder coat in black or white.

Applications

An innovative solution for soft and diffuse illumination. The light source is barely visible, as the diffuser helps to create a morbid and uniform light emission.
Application areas: residential, hotels, restaurants, retail, corridors.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST2
Deep Surface Track
Deep Pendant Track

2ST7
Pendant Track
For Down Side

2ST9
Deep Pendant Track
For Down SIde

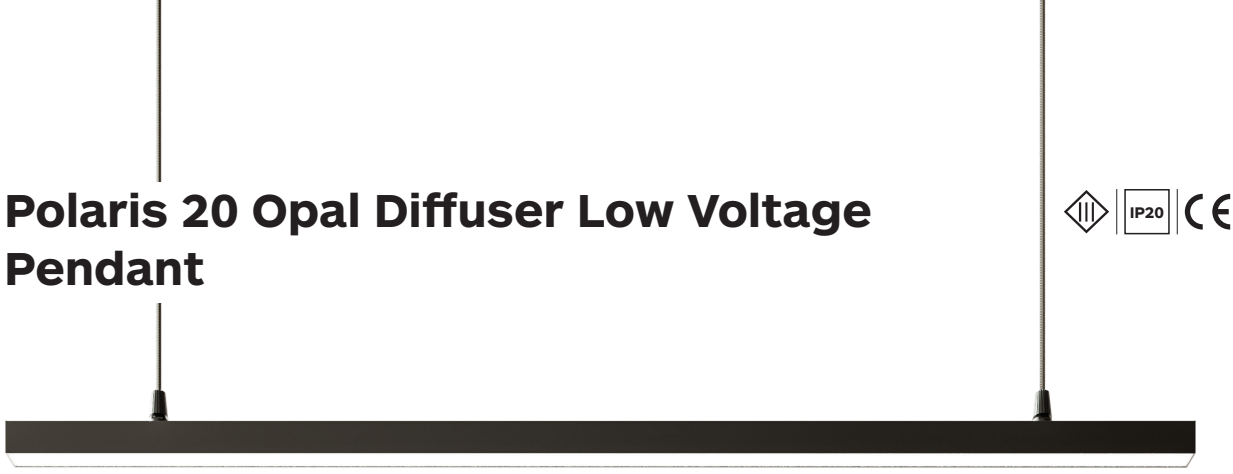
2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

2ST5
Deep Recessed
Track Trimless

2STA
Deep Recessed
Track Trimless

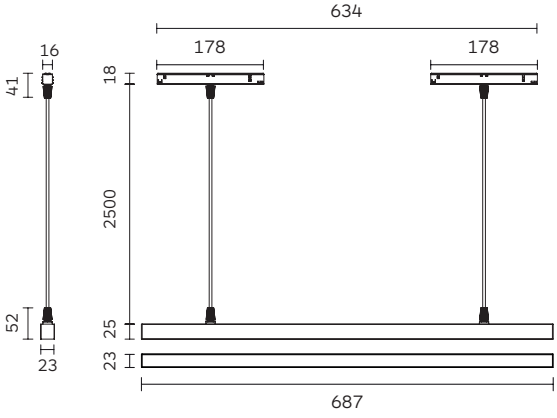
Polaris 20 Opal Diffuser Low Voltage Pendant



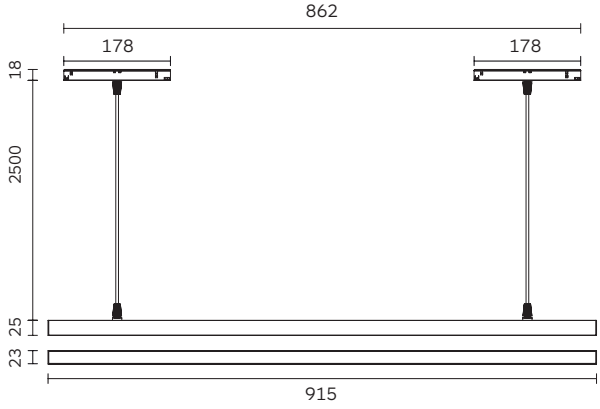
Polaris 20 Opal Diffuse

Polaris 20 Opal Diffuser

Low Voltage Track Pendant L: 687



Low Voltage Track Pendant L: 915



Code ordering example: **9714 BO11 - 90 30 00 D0 10**

	Product Code	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Polaris 20 Opal Diffuser Low Voltage Pendant L: 687	**9714**	**BO11** High Power LED	**90**	**30** 3000K	36W	4680 lm	**00**	**D0** No Dim	**10** ■ Black
				40 4000K		5400 lm		**DA** Dali Dim	**11** □ White
								DC CASAMBI	
Polaris 20 Opal Diffuser Low Voltage Pendant L: 915	**9715**	**BO11** High Power LED			48W	6240 lm		**D1** 0-10V Dim	
						7200 lm			

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

For the most updated product information, please go to our website.

Pixo
Low Voltage

Low Voltage Track Pendant

Body

Pendant luminaire for 48V voltage track systems with light body in extruded aluminium. Light body available in two diameter (25 and 36mm) and different lengths, to fit any ceiling height .

Exchangable front ring in wide range of colours. Supplied with integrated track adapter, compatible with different models of Stucchi low voltage track system, and 2 x 1.5m pendant wires.

Easy to insert and remove from the track.

LED sources

Light source options: High Power LED (Pixo 25). COB LED (Pixo 36).
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options available on request.

Optic

Lens.
Narrow, medium and wide beam angle available.

Accessories

Decorative ring available in different colours.
Transparent acrylic decorative diffuser.
For more information about low voltage track accessories see page 40-45.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Finish

Powder coat in black or white. Exchangable front ring in different colours.

Applications

A modern designed pendant ambient light. Its accessories make it the perfect match for sophisticated enviroments.
Application areas: residential, hotels, restaurants, retail, corridors.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST2
Deep Surface Track
Deep Pendant Track

2ST7
Pendant Track
For Down Side

2ST9
Deep Pendant Track
For Down SIde

2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

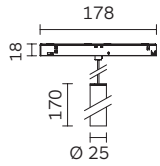
2ST5
Deep Recessed
Track Trimless

2STA
Deep Recessed
Track Trimless

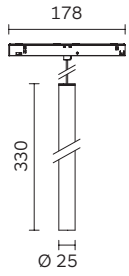
Pixo Low Voltage Pendant

Pixo 25 Low Voltage Pentant

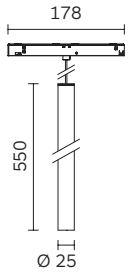
Low Voltage Track L: 170



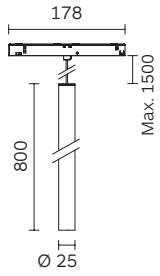
Low Voltage Track L: 330



Low Voltage Track L: 550

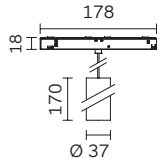


Low Voltage Track L: 800

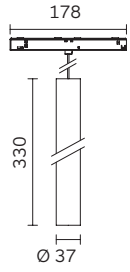


Pixo 36 Low Voltage Pendant

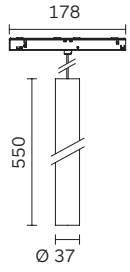
Low Voltage Track L: 170



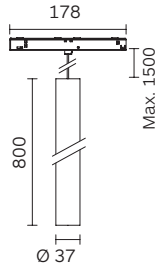
Low Voltage Track L: 330



Low Voltage Track L: 550



Low Voltage Track L: 800



Code ordering example: **9 7 0 3 B N 1 1 - 9 0 3 0 1 4 D 0 1 0**

	Product Code	Product Length	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options	Finish
Pixo 25 Low Voltage Pendant	**9703**	170	**BN11** High Power LED	**90**	**30** 3000K	2W	230 lm	**14 / 20 / 26 / 32**	**D0** No Dim	**10** ■ Black
	9704	330			**40** 4000K		260 lm		**DA** Dali Dim	**11** □ White
	9705	550							**DC** CASAMBI	
	9706	800							**D1** 0-10V Dim	
Pixo 36 Low Voltage Pendant	**9707**	170	**BC31** COB LED			5W	500 lm	**20 / 26 / 36**		
	9708	330					550 lm			
	9709	550								
	9710	800								

Optical Accessories

Product / Optical Accessories	Acrylic diffuser	Colour Ring Colour 33	Colour Ring Colour 35	Colour Ring Colour 55
Pixo 36 Low Voltage Pendant	**2E05**	**2E07**	**2E07**	**2E07**

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

For the most updated product information, please go to our website.

Pixo Zoom Low Voltage

Low Voltage Track Pendant

Body

Pendant luminaire for 48V voltage track systems with light body in extruded aluminium.

Beam angle manually adjustable trough ring rotation, from 10° to 35°.

Supplied with integrated track adapter, compatible with different models of Stucchi low voltage track system, and 1.5m pendant wire.

Easy to insert and remove from the track.

LED sources

Light source options: High Power LED (Pixo 25). COB LED (Pixo 36).
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT options available on request.

Optic

Lens.
Adjustable beam angle (10-35°)

Accessories

For more information about low voltage track accessories see page 40-45.

Driver

Integrated 48V DC input.
Diming Options: 0-10V, DALI, Casambi.
Check page 46 for more details about diming options.
Power supply unit to be ordered separately, see page 46.

Finish

Powder coat in black or white.

Applications

A modern designed pendant ambient light. Its accessories make it the perfect match for sophisticated enviroments.
The Zoom option add flexibility in designing the shape of light.
Application areas: residential, hotels, restaurants, retail, corridors.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST2
Deep Surface Track
Deep Pendant Track

2ST7
Pendant Track
For Down Side

2ST9
Deep Pendant Track
For Down SIde

2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

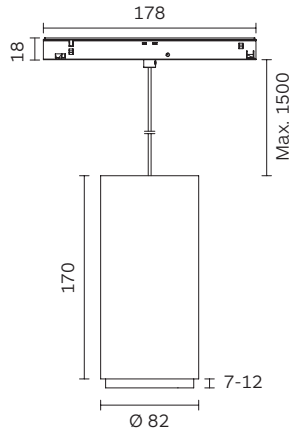
2ST5
Deep Recessed
Track Trimless

2STA
Deep Recessed
Track Trimless

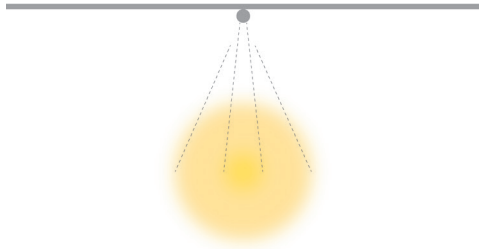
Pixo Zoom 82 Low Voltage Pendant

Pixo Zoom 82

Low Voltage Track



Zoom Spotlights



Zoom Spot 10° - 35°

Code ordering example: **9711BC31**-**90 30 BS D0 10**

	Product Code	Product Length	Light Source Code*	>CRI	CCT**		LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Pixo **Zoom** 82 Low Voltage Pendant	**9711**	170	**BC31** COB LED	**90**	**30**	3000K	11W	1160 lm	**BS** (10-35°)	**D0**	No Dim	**10** ■ Black
					40	4000K		1260 lm		**DA**	Dali Dim	**11** □ White
										DC	CASAMBI	
										D1	0-10V Dim	

Notes:

* For complete code ordering information, please see page 51.

** For other CCT options, please contact us.

For the most updated product information, please go to our website.

BS: Beam shaping, Beam Angle: 10-35°, 35° field angle.

Palla Low Voltage

Low Voltage Track Pendant

Body

Pendant luminaire for 48V voltage track systems with light body in cast aluminium.

Supplied with integrated track adapter, compatible with different models of Stucchi low voltage track system, and 1.5m pendant wire.

Easy to insert and remove from the track.

Available in 2 different sizes.

LED sources

COB LED.
CRI: 90 | CCT: 3000K, 4000K.
Other CRI and CCT versions available on request.

Optic

Lens.
Narrow, medium and wide beam angle available.

Accessories

Honeycomb louvre.
For more information about low voltage track accessories see page 40-45.

Driver

Supplied with no-dimable driver in the driver canopy.
Dimming Options: 0-10V, DALI, Phase, CASAMBI.
Power supply unit to be ordered separately, see page 46.

Finish

Powder coat in black or white colour.

Applications

A crisp high tech designed ideal for both direct and indirect lighting applications and it integrates well with virtually any interior while offering excellent and different beam lighting distribution.
Application areas: retail, hotels, restaurants, offices, lobbies.

Compatible with Low Voltage Track Types

Please see P.40-41 for details

2ST1
Surface Track

2ST6
Surface Track
Pendant Track

2ST2
Deep Surface Track
Deep Pendant Track

2ST7
Pendant Track
For Down Side

2ST9
Deep Pendant Track
For Down SIde

2ST8
Recessed Track
Trim

2ST3
Recessed Track
Trimless

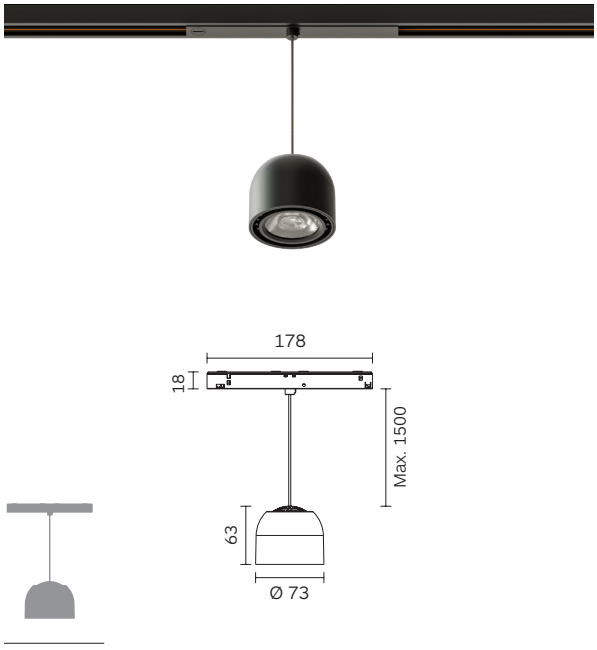
2ST5
Deep Recessed
Track Trimless

2STA
Deep Recessed
Track Trimless

Palla Low Voltage Pendant

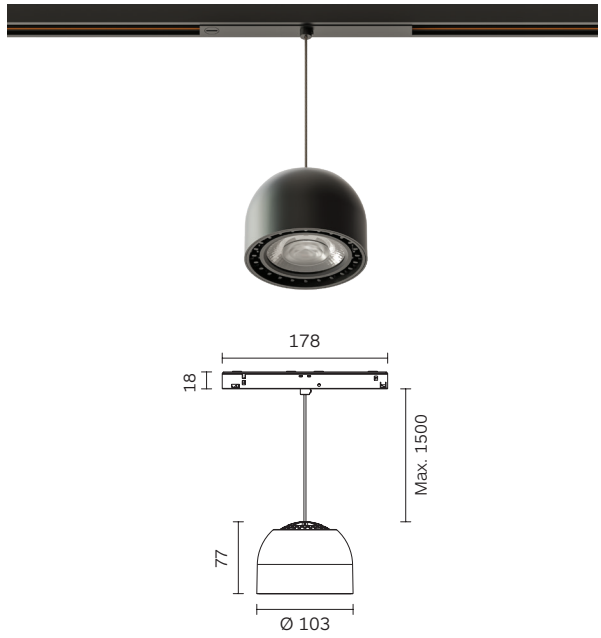
Palla 70 Low Voltage Pendant

Low Voltage Track



Palla 100 Low Voltage Pendant

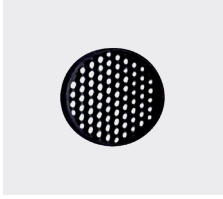
Low Voltage Track



Code ordering example: **9 7 0 1 B C 2 2 - 9 0 3 0 1 6 D 0 1 0**

	Product Code	Light Source Code*		>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Palla 70 Low Voltage Pendant	**9701**	**BC22**	COB LED	**90**	**30** 3000K	12W	1500 lm	**16 / 25 / 36**	**D0**	No Dim	**10** ■ Black
					40 4000K		1550 lm		**DA**	Dali Dim	**11** □ White
Palla 100 Low Voltage Pendant	**9702**	**BC33**	COB LED			21W	2200 lm	**15 / 24 / 38**	**DC**	CASAMBI	
							2300 lm		**D1**	0-10V Dim	

Optical Accessories



Product / Optical Accessories	Honeycomb Louvre Colour 10
Palla 70 Low Voltage Pendant	**2B95**
Palla 100 Low Voltage Pendant	**2B99**

Notes:

* For complete code ordering information, please see page 51.

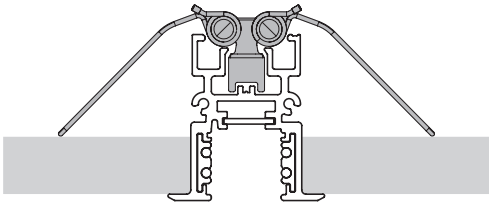
** For other CCT options, please contact us.

For the most updated product information, please go to our website.

Low Voltage Track Options

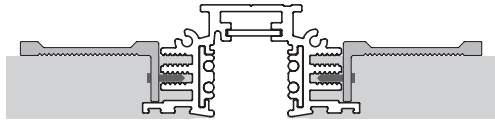
Recessed Trim Track

2ST8 + Art. 9202 Bracket with spring for 2ST8 included



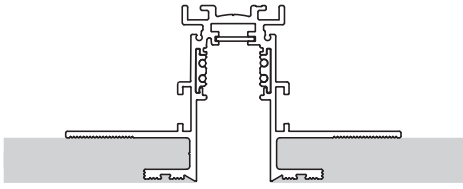
Recessed Trimless Track

2ST3 + Art. 9201 Bracket for 2ST3 trimless track included



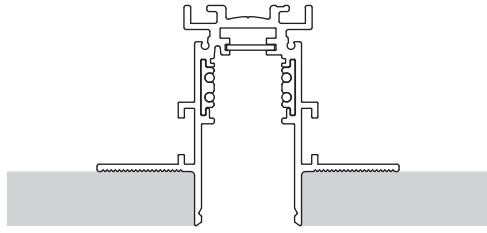
Deep Recessed Trimless Track

2STA



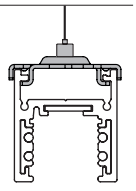
Deep Recessed Trimless Track

2ST5

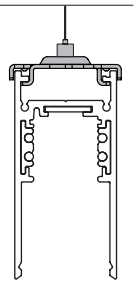


Pendant Track

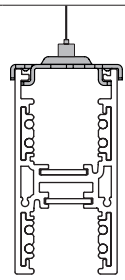
2ST6 + Pendant Kits Art.9226



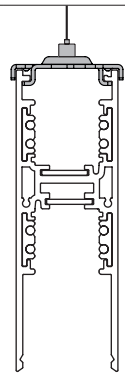
2ST2 + Deep Pendant Kits Art.9226



2ST7 + Pendant Kits Art.9226



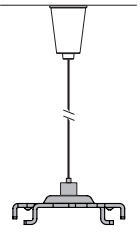
2ST9 + Deep Pendant Kits Art.9226



Pendant Kit

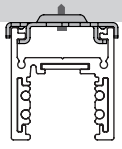
Pendant Kit

Art. 9226

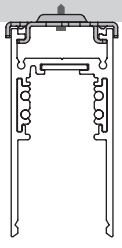


Surface Track

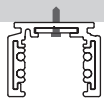
2ST6 + Surface Kits Art.9225



2ST2 + Deep Surface Kits Art.9225



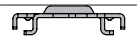
2ST1



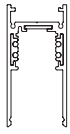
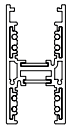
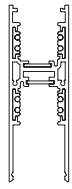
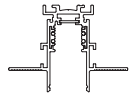
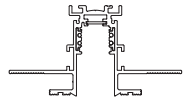
Surface Kit

Surface Kit

Art. 9225

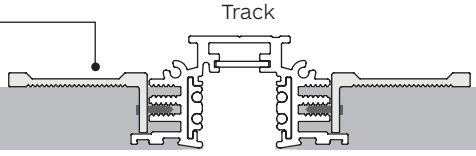


Compatibility

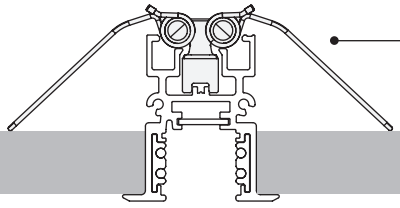
Track Options/ Product name	Surface Track **2ST1**	Surface Track Pendant Track **2ST6**	 Deep Surface Deep Pendant Track **2ST2**	 Pendant Track **2ST7** Up & Down	 Deep Pendant Track **2ST9** Up & Down	Recessed Track Trim **2ST8**	Recessed Track Trimless **2ST3**	 Deep Recessed Track Trimless **2ST5**	 Deep Recessed Track Trimless **2STA**
Polaris 20 & Polaris 20 Wallwasher Low Voltage	✓	✓	✓	✓	✓	✓	✓	✓	✓
Polaris 20 Opal Diffuser Low Voltage	✓	✓	✓	✓	✓	✓	✓	✓	✓
Polaris 20 Extended Arm Low Voltage	✓	✓	✓	✓ ✓	✓ ✓	✓	✓	✓	✓
Zero 40 / 66 / 100 Low Voltage	✓	✓		✓ ✓	✓	✓	✓		
Zero 40 / 66 / 100 Long Arm Low Voltage	✓	✓	✓	✓ ✓	✓ ✓	✓	✓	✓	✓
Zero **Zoom** 80 Low Voltage	✓	✓		✓ ✓	✓	✓	✓		
Zero **Zoom** 80 Long Arm Low Voltage	✓	✓	✓	✓ ✓	✓ ✓	✓	✓	✓	✓
Ola 55 / 100 / 130 Low Voltage	✓	✓		✓		✓	✓		
Ola **Zoom** 100 Low Voltage	✓	✓		✓		✓	✓		
Dado Low Voltage	✓	✓		✓		✓	✓		
Rolo Low Voltage	✓	✓		✓		✓	✓		
Conos 68 Low Voltage	✓	✓	✓	✓ ✓	✓ ✓	✓	✓	✓	✓
Polaris 20 & Polaris 20 Opal Diffuser Low Voltage Pendant	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pixo 25 & 36 Low Voltage Pendant	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pixo **Zoom** 82 Low Voltage Pendant	✓	✓	✓	✓	✓	✓	✓	✓	✓
Palla 70 & 100 Low Voltage Pendant	✓	✓	✓	✓	✓	✓	✓	✓	✓

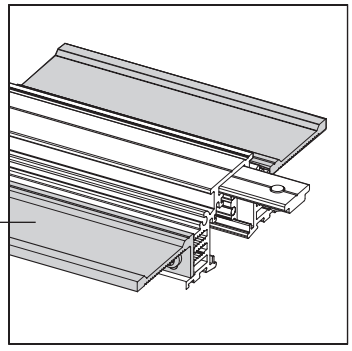
Accessories

Recessed Trimless Track



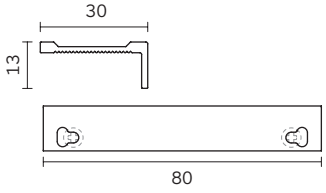
Recessed Trim Track

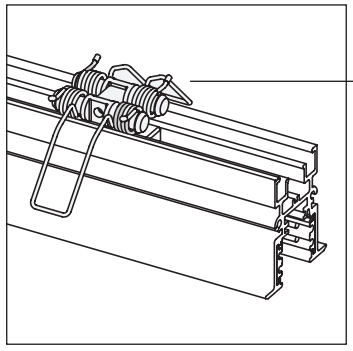




Bracket for 2ST3 Trimless Track

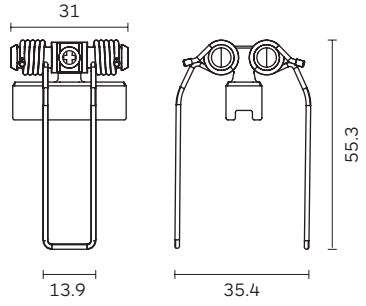
Art. 9201



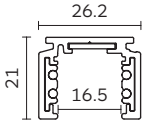


Bracket with Spring for 2ST8

Art. 9202

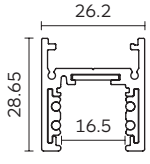


Low Voltage Track



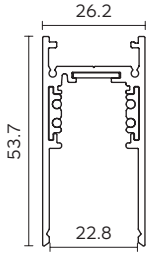
Surface Track

2ST1



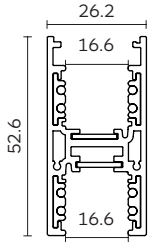
Surface Track
Pendant Track

2ST6



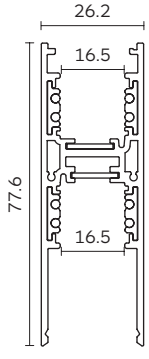
Deep Surface Track
Deep Pendant Track

2ST2



Pendant Track

2ST7

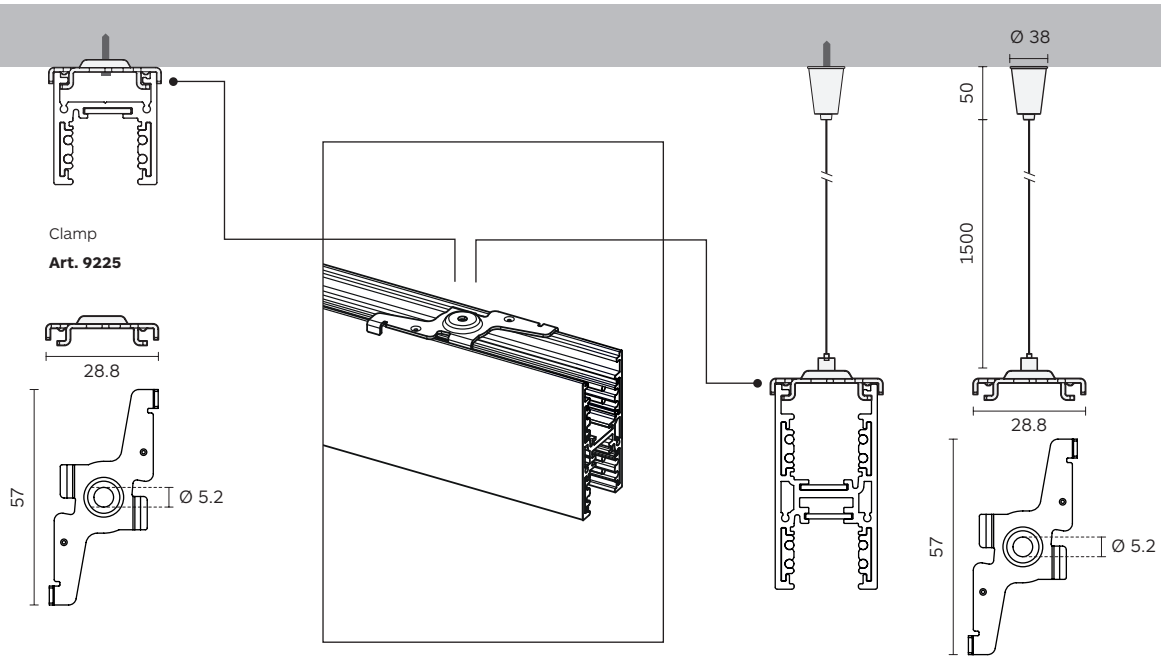


Deep Pendant Track

2ST9

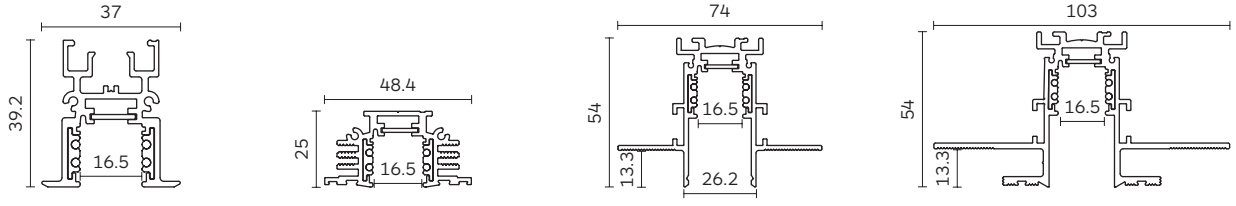
Surface
Track

Pendant
Track



Clamp
Art. 9225

Clamp with wire Hanger
Art. 9226

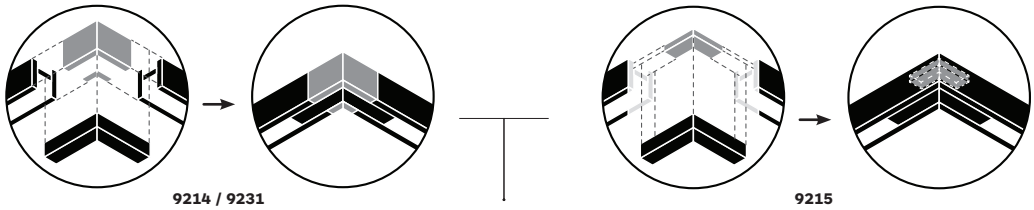


Recessed Track
Trim
2ST8

Recessed Track
Trimless
2ST3

Deep Recessed Track
Trimless
2ST5

Deep Recessed Track
Trimless
2STA



9214 / 9231
Cover for L Joint
(For 2ST2 / 2ST6)

9215
L Bracket for angles

Metal Sheet End Cap

9206
Interal L Feed
in Polarized
Version

9208
Short Jointing
Connector
in Polarized
Version

9210
Adjustable
Corner
in Polarized
Version

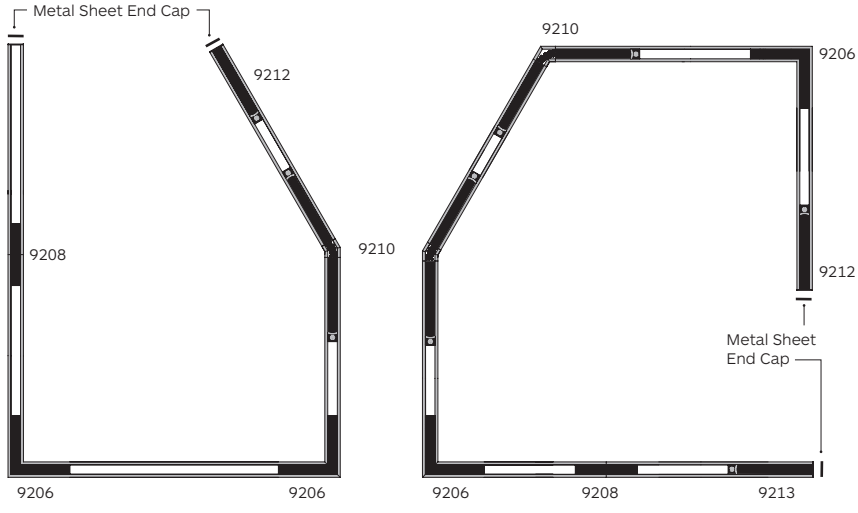
9213
End Feed (Left)
in Polarized Version

9210
Adjustable Corner
in Polarized
Version

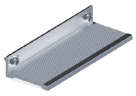
9212
End Feed (Left) in Polarized Version

Metal Sheet End Cap

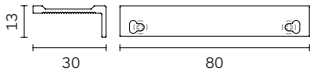
Reference Diagram for Choice of Connetors

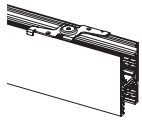


Installation Components

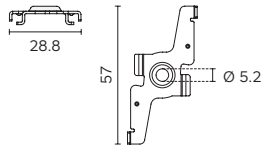


9201 Bracket for 2ST3 trimless track

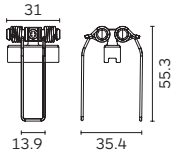




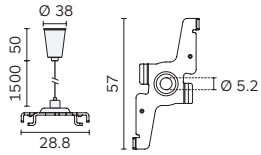
9225 Clamp



9202 Bracket with spring for 2ST8



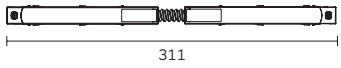
9226 Clamp with Wire Hanger



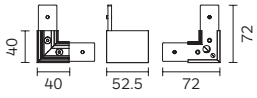
Accessories

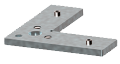
9206* Interal L feed in Polarized Version

9202 Bracket with spring for 2ST8

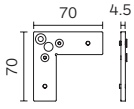


9214* Cover for L Joint (For 2ST2)



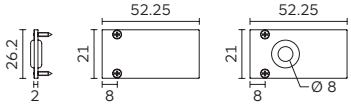


9215 L Bracket for angles

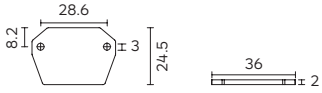


9218* Metal sheet End Cap for 2ST2, 2ST5 & 2STA

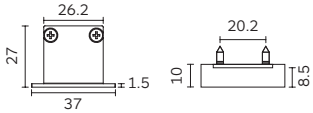
9219* Metal sheet End Cap with hole for 2ST2, 2ST5 & 2STA

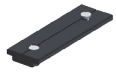


9220* Metal sheet End Cap for 2ST3

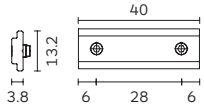


9223* Metal sheet End Cap for 2ST8

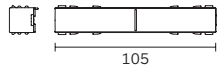




9227* Reinforcing Bracket for Jointing Conector with Track 2ST3, 2ST5, 2ST8, 2STA

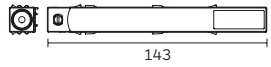


9208* Short Jointing connector in Polarized Version

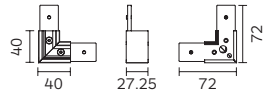


9212* End Feed (Left) in Polarized Version

9213* End Feed (Right) in Polarized Version

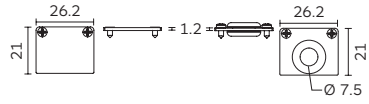


9231 Cover for L Joint (For 2ST6)



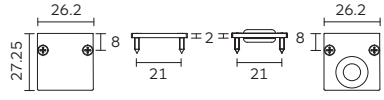
9216* Metal sheet End Cap for 2ST1

9217* Metal sheet End Cap with hole for 2ST1

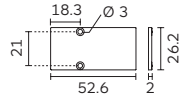


9221* Metal sheet End Cap for 2ST6

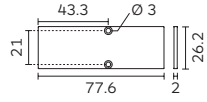
9222* Metal sheet End Cap with hole for 2ST6



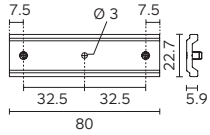
9230* Metal sheet End Cap for 2ST7



9224* Metal sheet End Cap for 2ST9



9234 Bracket for Jointing Connector with Track 2ST2, 2ST6, 2ST8



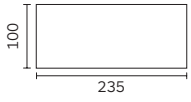
Notes:

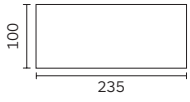
* Available in colours 10, 11

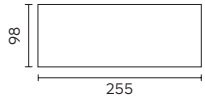
Power Supply & Control Options

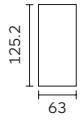
Power Supply

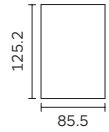
	220-240VAC input, 48VDC output 75w power supply for low voltage track	220-240VAC input, 48VDC output 150w power supply for low voltage track	220-240VAC input, 48VDC output 150w power supply for low voltage track with Casambi wireless 0-10V dimmer	220-240VAC input, 48VDC output 240W, DIN rail power supply unit for low voltage track	220-240VAC input, 48VDC output 480w, DIN rail power supply unit for low voltage track
Code	**2E28**	**2E29**	**9229**	**2E30**	**2E31**
Size	100 x 235 x 31	100 x 235 x 31	98 x 255	Max. 63 x 125.2 x 113.5	Max. 85.5 x 125.2 x 128.5











150W Power supply with integrated wireless CASAMBI Control to 0-10V interface

9229

150W Power supply with integrated DALI interface

9232

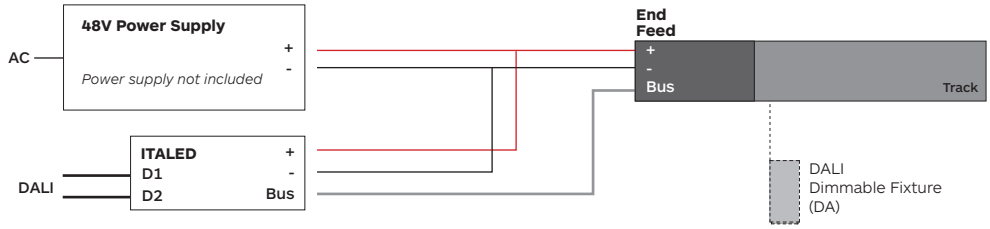
150W Power supply with integrated 0-10V (isolated) interface

9233

Dimming Interface

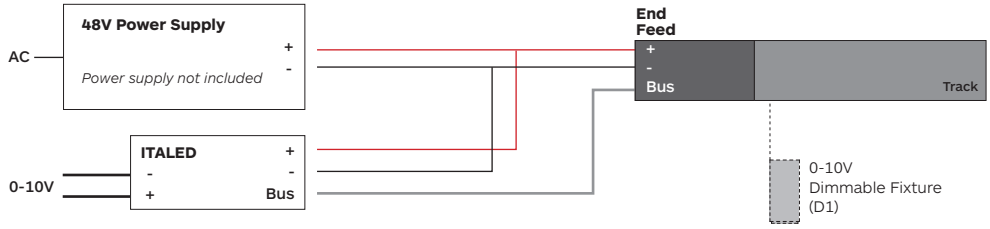
ITALED DALI Interface for Low Voltage Track 48V

2I01



ITALED 0-10V (Isolated) Interface for Low Voltage Track 48V

2I02

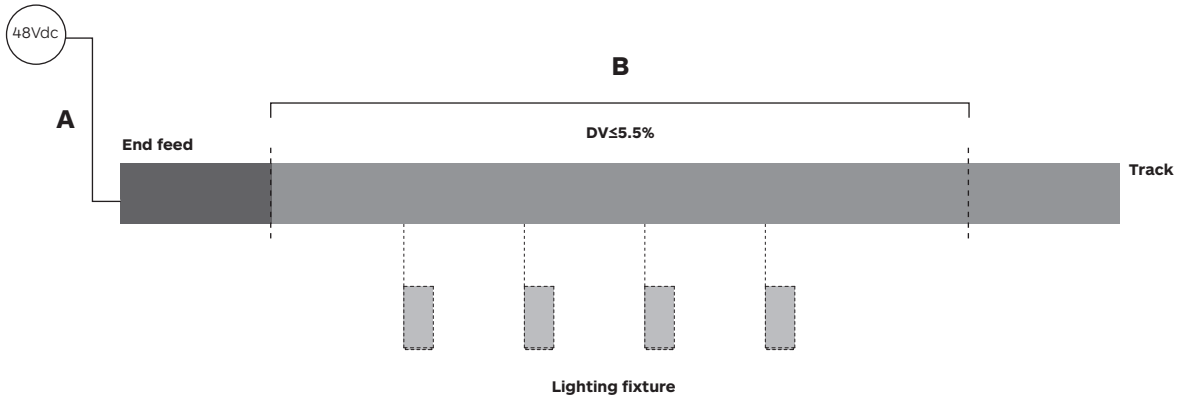


Drop Voltage Table

	A Distance power supply/feed unit (2x1.5mm²)			
	5m	10m	20m	30m
	B Track Length with Δv≤5.5% (m)			
Power Supply (W)	(m)	(m)	(m)	(m)
60	50	50	50	50
100	50	50	40	25
150	50	40	20	Not admitted
200	40	30	Not admitted	Not admitted
250	35	20	Not admitted	Not admitted

Information refers to a load equivalent to the power supplied and equally distributed on the relevant lenght in the table.

Remote Power Supply



Symbols & Icons
Code system
Global presence

Symbols & Icons

The CE mark signifies that a product conforms with the relevant ECC directives requirements. The CE marking is compulsory to indicate LVD and EMC conformity.

The CE mark is also a self certification that the manufacter claims that the product is safe. The value of such claim is directly related to thecase of FormaLighting: All products are designed, developed, manufactured under the scope of ISO 9001 quality systems.

All formaLighting products are tested in Europe and certified by an independent laboratory that is registered and audited by an approved European testing authority.

Others third party product approvals

Our products include electrical and electronic components that carry other world wide Test House approvals such as those shown:

CLASS I
Luminaires of insulation Class I - with earth connector.

CLASS II
Luminaires of insulation Class II - With safety isolation, this means the tension conductions element are protected by additional isolation.
The isolation of an earth wire it is not necessary and the connection to it is not allowed.

CLASS III
Luminaires of isolation Class III - designed for operation of protected low voltage supply (>42V).

Zoom

Passes the 850C glow wire test in accordance with ICE 695-2-1.

Passes the 960C glow wire test in accordance with ICE 695-2-1.

Degree of Ingress Protection*

Dim2Warm

Tuneable White

Recyclable

IP_ _ Degree of Ingress Protection

1st Number	Protection Against Dust and Solid Objects
0	No-Protection
1	Protection agains solid objects >50 mm
2	Protection agains solid objects >12 mm
3	Protection agains solid objects >2.5 mm
4	Protection agains solid objects >1 mm
5	Dust - protected
6	Dust - tight

2nd Number	Protection Against Moisture and Liquids
0	No-Protection
1	Protection against dripping water
2	Protection against dripping water tilted > 15 deg
3	Protection against spraying water > 30 deg
4	Protection against spraying water
5	Protection against water jet
6	Protection against waves
7	Protection against the effects of immersion
8	Protection against submersion

LEDs in formalighting Luminaires

Lumenetix

Citizen

Cree

Luminus

Osram

Nichia

Code system

Code ordering examples:

Palla 70 Low Voltage Pendant: **9 7 0 1 B C 2 2 _ 9 0 3 0 1 6 D 1 1 0**

- Body colour
- Driver options
- Beam angle
- CCT-LED Colour temperature
- LED CRI
- Light Sources code
- Product code

LED CRI	
90	CRI > 90
97	CRI > 97

Driver Options	
D0	No dimming
DA	Dali Dim
DC	CASAMBI
D1	0-10V Dim

Body Colour	
10	Black (RAL 9004)
11	White (RAL 9003)
#17	Black (RAL 9004) / White (RAL 9003) (B&W)
75	Grey (RAL 9006)

CCT-LED Colour temperature	
27	Warm White 2700K
30	Warm White 3000K
35	Warm White 3500K
40	Neutral White 4000K
TW	Tuneable White 2700K - 6500K

Notes:
#17: white light body with black integrated louvre. For black body with white integrated louvre consult us.

How to order

	Product Code	Light Source Code*	>CRI	CCT**	LED Power	Nominal Lumen	Beam Angle (BA°)	Driver Options		Finish
Palla 70 Low Voltage Pendant	**9701**	**BC22**	**90**	**30** 3000K	12W	1500 lm	**16** / **25** / **36**	**D1**	0-10V Dim	**10** ■ Black **11** □ White

Product code	**9701**
Light Source code	**BC22**
LED CRI	**90**
CCT-LED colour temperature	**30**
Beam angle	**16**
Dimming options	**D1**
Body colour	**10**

All dimensions in the catalogue in mm

Global presence

Celebrating 50 years of vision, dedication and innovation, Formalighting's versatile and high-quality product offerings extends internationally via our headquarters in Hong Kong, London, Milan, Shanghai and the USA.
Our well chosen and selected partners as well as our affiliated international offices broaden our global presence further in markets such as Australia, Japan, South East Asia, India and the Middle East.

Through our commitment to growth and investment within formalighting's professional team, infrastructure and product ranges, we are able to provide increasing service to our global retail and hospitality clients as well as lighting designers and specifiers strengthening our position as a leading international supplier of innovative architectural lighting solutions and systems.

With 50 years' experience in designing and manufacturing architectural lighting, formalighting's comprehensive portfolio offers a competitive range of European designed and expertly engineered products that carry CB, CE, CCC and UL certifications.

Furthermore formalighting's latest award-winning motorized range of track, pendant, and recessed fixtures, featuring remote-controlled adjustable pan and tilt, dim, dim to warm, tuneable white and beam shaping lens, are available worldwide incorporating the latest, most advanced lighting technologies.

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USA / New York

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E- mail info.us@formalighting.com

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Publication date: May 2020
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SunLike
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TRI-R

hiips://www.toshiba-tmat.co.jp/en/tri-r.htm

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Toshiba Materials Co.,Ltd

hiips://www.toshiba-tmat.co.jp/en/

Light Your Brain Desires

SunLike
Powered by TRI-R

hiip://www.seoulsemicon.com/en/technology/Sunlike/

TRI-R

hiips://www.toshiba-tmat.co.jp/en/tri-r.htm

A spectrum leading us to the future

The brain has immense capabilities, and runs every part of you.
It perceives color, and controls the biological clock that maintains your bodily functions.
The development of SunLike began by focusing on the spectrum of light,
which fulfills an important role for these mechanisms.

Your eyes are sensors. Three types of photoreceptor cells on the retina detect the intensity of
light on different wavelengths, and transmit this information as signals to the brain.
The brain then perceives this color and, at the same time, issues various instructions.
From this perspective, the idea of what it means
for humanity to have light is now attracting attention all around the world.
SunLike is a human-centric, LED spectrum technology that will open the way to humanity's future.

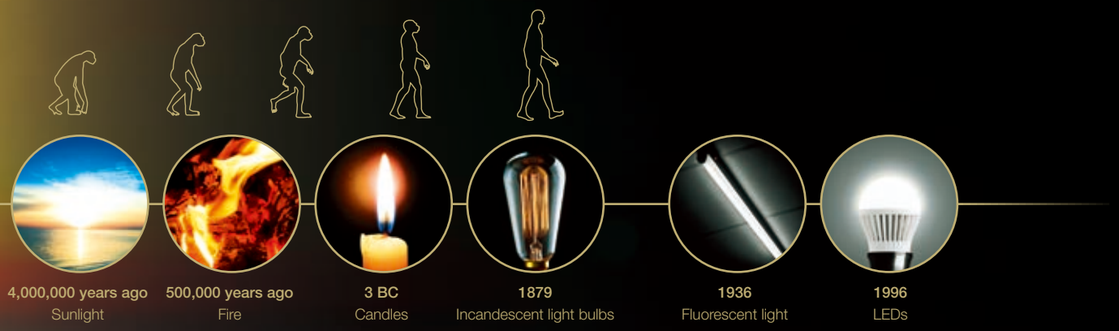
Humankind lives alongside, and was created from, natural light.

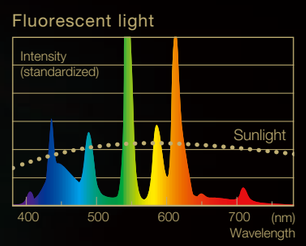
SunLike
Powered by TRI-R

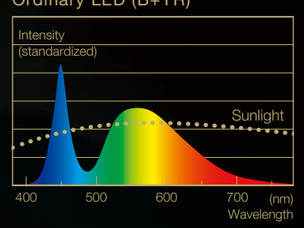
SunLike is advanced Light source that combines the latest optical and compound semiconductor technology of Seoul Semiconductor and “TRI-R technology” a sunlight spectrum that is a registered trademark by the Toshiba Materials Co., Ltd. It lowers blue light peak similar to sunlight spectrum contributes to maintaining a stable human circadian rhythm and enhancing the color clarity of objects.

Humankind now lives with artificial light.

Go back four million years, to the time of our ancestors. The light of the sun shines unending, continuously illuminating the Earth. In time, humans encountered fire, and civilizations were born that harnessed the power of natural light from both fire and the sun. Then, about 80 years ago, a new illumination technology appeared: artificial light. The spectrum of this light, however, was quite different from that of natural sunlight and the light from incandescent bulbs that had come before. Compare the spectrum of natural light, which draws a smooth line, to the spectrum of artificial light, which peaks in particular wavelengths and is lacking in others. The effect that these differences have on people is gaining attention.





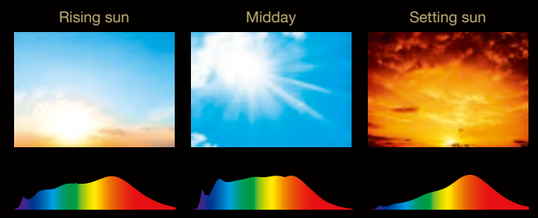


Among all types of light, the light that is visible to the human eye can be separated into the seven colors of the rainbow (violet, indigo, blue, green, yellow, orange, and red) at different wavelengths. The division of these components of light into wavelengths is called a spectrum.

Light, the brain, the body.

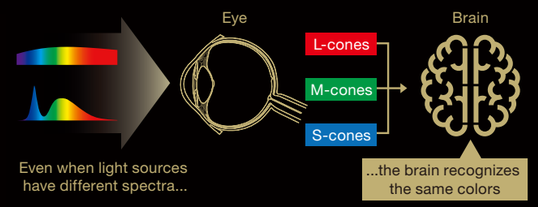
Light and the biological clock

From the time we are born, a biological clock is running not only in our brains, but in each of the countless cells throughout our bodies. This clock naturally operates on a cycle of about 25 hours, but synchronizes with our 24-hour day as the morning light causes a daily correction. This is one way that light is used not only to view objects, but also to maintain our biological functions, and is an important component to sensitivity.



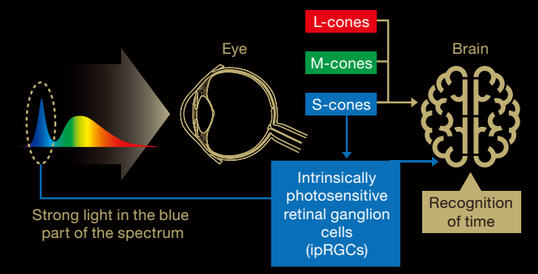
Same perceived color does not mean same spectra

When a spectrum enters the eye, our photoreceptor cells measure the respective intensity of blue, green, and red light. The retina converts and transmits this data to the brain, where it is perceived as colors and luminosity. In other words, the brain interprets the results of calculations, and is not capable of recognizing spectra directly. This allows the brain to recognize the same colors in different spectra, such as natural light, artificial light, or images on a display.



Photoreceptor cells transmit light changes throughout the day to the brain

In 2002, scientists discovered the existence of ipRGCs (intrinsically photosensitive retinal ganglion cells), which transmit the intensity of blue light, a major part of morning light. We now know that these photoreceptor cells control the biological clock. This in turn suggests that spectra might affect the biological clock through ipRGCs. Research is showing us the effects on organisms of intensities in the blue portion of the spectrum that differ from those in natural light, even with light that we perceive as being the same color. This research focuses on disruptions to the biological clock and the resulting degradations in sleep quality, as well as risks involving other illnesses.



Light closest to that of the sun

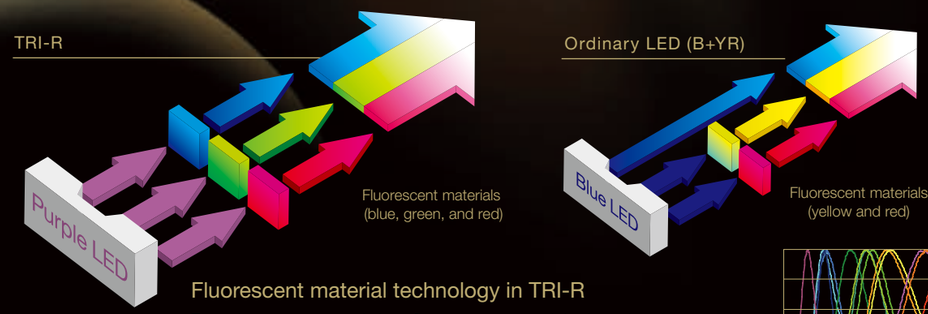
SunLike Powered by TRI-R

Combination of Seoul Semiconductor's compound semiconductor technology and Toshiba Material's TRI-R technology

TRI-R, a next-generation LED spectrum technology

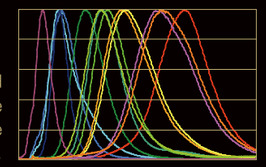
TRI-R light-emission principles

The light from an ordinary white LED is created from the combination of light emitted from a blue LED and light emitted by exciting fluorescent materials. But with TRI-R, virtually all of the excitation light from a violet LED is converted into light emitted from fluorescent materials, which results in a natural and continuous spectrum that is very close to that of sunlight, one that does not have excessive peaks or deficiencies at specific wavelengths.

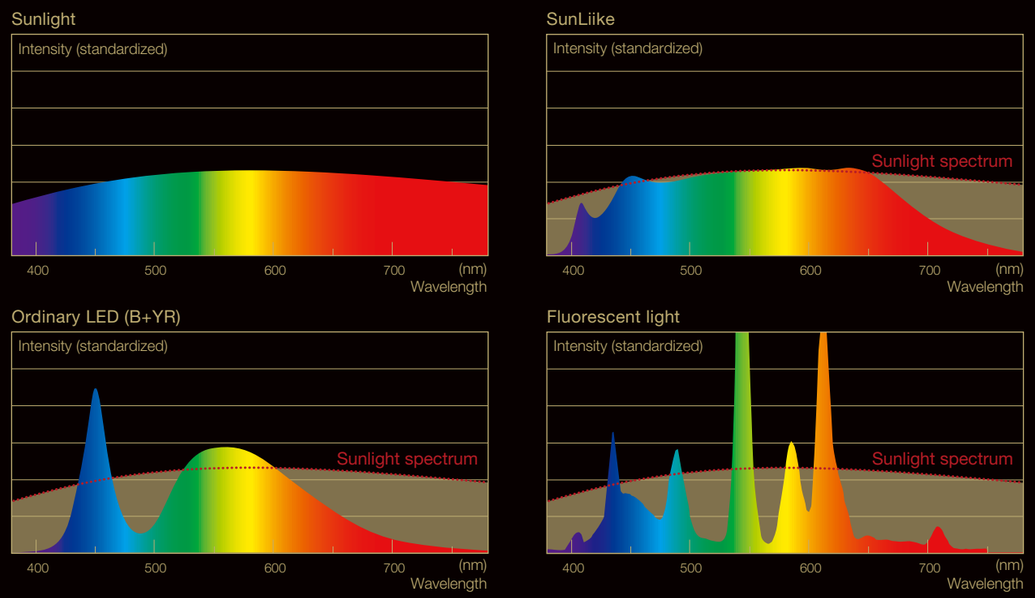


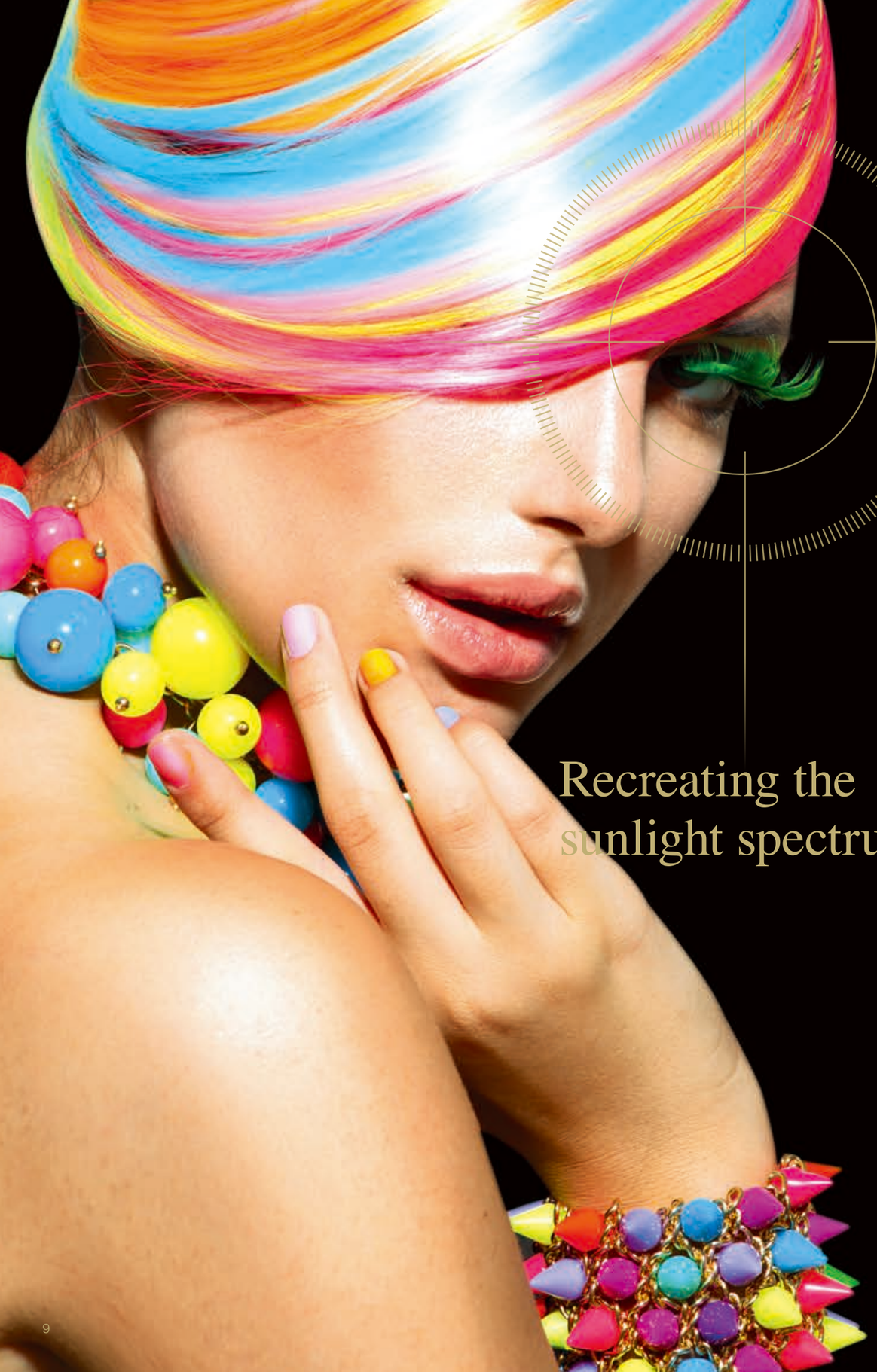
Fluorescent material technology in TRI-R

Based on our research into fluorescent materials that give rise to excited luminescence at various wavelengths and our accumulated expertise, we developed fluorescent materials that are optimized for generating white light from violet LEDs, as well as the technology needed for this blending.



Spectral comparison of 5000 K color temperature





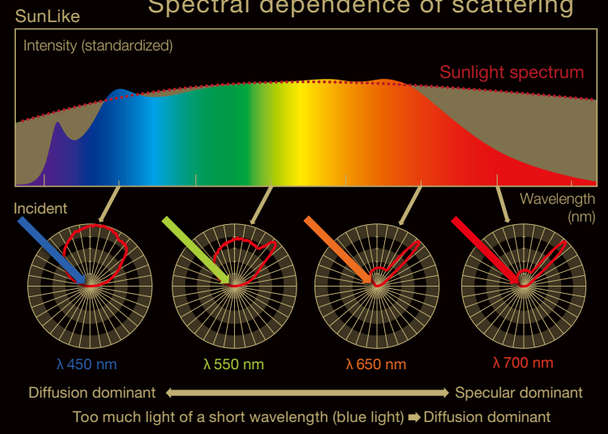
Recreating the sunlight spectrum

Faithful reproduction of natural colors, contrasts, and three-dimensionality

Artists select colors and brush strokes to create depth and perspective when viewed under natural light, and viewing paintings under the same lighting with which the artist created them is one way to properly appreciate them. SunLike faithfully illuminates paintings as they would appear under sunlight in terms of color and contrast. We must also not forget texture, or three-dimensionality, when illuminating works of art, fashion, or interior design. SunLike delivers a natural spectrum without excessive blue light, which is easily scattered, and therefore produces specular reflection from the surface of objects, imparting a greater sense of three-dimensionality and texture.

Peter Paul Rubens's *Self-portrait* (1623) from the Royal Collection

Spectral dependence of scattering

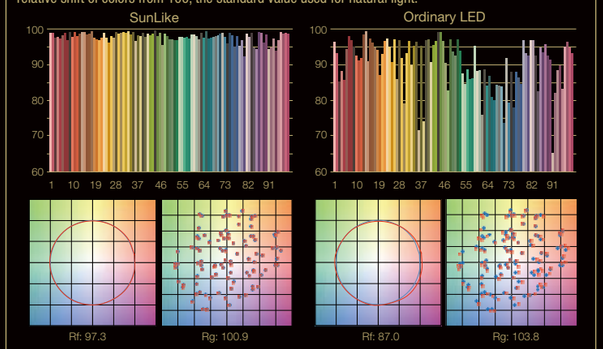


Superb color rendering and expression of texture

Sometimes the color of clothing looks different outside than it did in the store. This happens because the spectrum of light in the store differs from that of natural light. Color rendering indicates the effect that a light source has on how the colors of objects are perceived, with 100 representing colors under natural light. SunLike exhibits superior color rendering properties, with a value close to 100 when using not only the traditional CRI (Color Rendering Index) standard, but also the new TM-30-15 standard (the IES Method for Evaluating Light Source Color Rendition). The technology expresses natural colors at events such as exhibitions of European art and fashion shows.

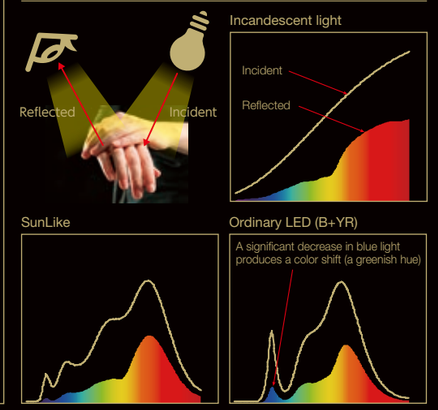
TM-30-15

TM-30-15 is a method that evaluates light by using two properties: Rf, the fidelity of color reproduction; and Rg, the color gamut (vividness). Furthermore, a chromaticity diagram can be used to illustrate the relative shift of colors from 100, the standard value used for natural light.



SunLike has color rendering properties closer to 100, and is capable of reproducing colors in a manner comparable to that of the sun.

Spectrum difference between incidence and reflection



True-to-life expression

Rendering high-quality scenes with depth

SunLike allows for superb color rendering and expression of texture. Art galleries, showrooms, shops, hotels, and restaurants are just some examples of places that are capable of maximizing this potential. The light from SunLike produces natural scenes with depth in various spaces.

Skin

With light that is exceedingly close to that of the sun, SunLike can illuminate human vitality. The technology allows for the accurate expression of the natural colors and textures inherent to the skin.

Japanese clothing

SunLike lighting clearly brings out colors ranging from faint to vivid. The beauty of the meticulous weaving of clothing items is depicted in every detail.

Leather

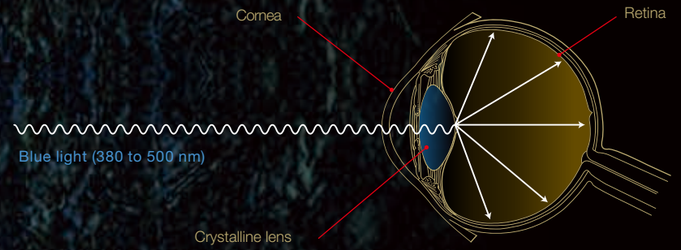
SunLike faithfully reproduces the appearance of even monotone leather products and other items that do not have an easily perceived texture. Viewers are able to recognize the craftsmanship that has gone into such items.

Gold

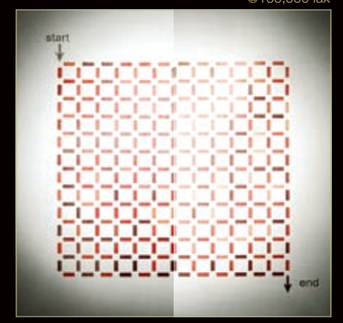
Because of SunLike's natural and smooth, continuous spectrum, the technology is capable of accurately revealing the deep luster of objects made of gold, and the accompanying feeling of luxury.

Excellent visibility, with little glare

An ordinary LED light source transmits a strong beam of light from a blue LED, which scatters greatly due to its short wavelength and high energy. This scattering occurs not only on an illuminated object but within the eye itself, where it is easier to perceive shimmering and glare. Because SunLike does not contain a high-intensity blue light component, the technology provides light that offers excellent visibility with little glare.



@160,000 lux



SunLike | Ordinary LED (B+YR)

Awards winner in 2018

Electronik Award
(Mar 2018)

1st innovative Product of the Year Award

15 great Tech. of the year
(Sep 2018)

15 great technologies of the year awarded by the Korean Enegineering Academy

EDISON AWARDS
(May 2018)

Edison Awards Top 10 Must See Product

OFweek China LED Lighting Awards 2018
(Oct 2018)

Most Creative LED Technology

IES Progress Report
(Aug 2018)

Innovative SunLike LEDs Earn Industry Recognition in 2018 IES Progress Report

IBuilding Green Top 10 Product for 2019
(Nov 2018)

Best application Awards
(Sep 2018)

LED Professional Symposium In Bregenz

2018 Lux Awards
(Nov 2018)

Enabling Technology of the Year

araya 5®

TUNABLE COLOR

Bluetooth™

araya 5® Color Tuning LED Modules (CTM1C)
24V DC Input (Constant Voltage)
2000 Maximum Peak Lumens

Data Sheet

lumenetix® powered by ERP

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2 Electrical and Mechanical Specifications

3 Heat Sinking Recommendations

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6 Secondary Optics

7 Power / Control Cable Assemblies

8 Wiring Diagrams

9 Operation Guide

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legrand
EcoSystem Enabled
c UL us
UL Recognized Component
Dry or Damp Locations Class 2 Input
FC
lead-free
RoHS 2002/95/EC

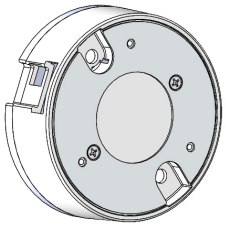
1 DESCRIPTION AND ORDERING INFORMATION

CTM 109

CTM 112

CTM 119
(1250 / 1000 / 750 LM)

CTM 119NR


CTM 119
(2000 / 1500 LM)

Description

araya5® Color Tuning Modules mix five colors of LEDs to deliver tunable and dimmable white light at 90+ CRI* and color consistency of <2 MacAdam ellipse across a tuning range of 1650 - 8000K. Light can be dimmed from 100 - 1% while maintaining constant CCT. Gradients of saturated colors from 1 - 100% can be added to color points within the tuning range. araya5 modules integrate the driver electronics for precise control of current and PWM inputs and LED light output. On board closed loop thermal feedback compensates each color channel for thermally induced variations in optical output due to tuning, dimming or ambient temperatures. On board closed loop optical feedback measures the lumen depreciation of each channel and re-balances the color model to ensure color consistency over the 50,000 hour life of the module. An in-line manufacturing process captures the spectral characteristics of each LED under multiple conditions, generating a unique color model for each color tuning module. The modules are compatible with traditional 0 - 10V wired controls, feature on-board DMX512-A-RDM, and also Bluetooth Low Energy (BLE) for commissioning. Lutron® EcoSystem compatibility is achieved by using the optional Lumenetix Digital Control Adapter. Modules can be paired with Legrand's Wattstopper® Digital Light Management (DLM) interface via an external adapter, to allow automatic fixture commissioning. For simple deployment, scene set allows up to five scenes to be pre-programmed into the module during production and recalled at the venue using a 0 - 10V recommended dimmer. Commissioning of the module, re-programming of scenes, and configuration of DMX channels is done via RDM or the wireless araya5 Tunable Color 2.0 iOS app that connects to the embedded radio. The CTM1 series features nominal light emitting surfaces (LES) of 9 mm, 12 mm and 19 mm.

Key Features

- Tunable range: 1650 - 8000K
- 90+ CRI*
- Dimmable from 100% - 1% at constant CCT
- Color gamut control: gradients of saturated colors from 1 - 100% can be added to color points
- Integrated driver electronics
- On board thermal and optical feedback for color consistency of <2 MacAdam ellipse over 50,000 hour life
- In-line spectral capture creates unique color model for each module, resulting in consistent CRI and CCT across all modules
- On board thermal turndown
- Compatible with 0 - 10V wired controls
- On-board Bluetooth Low Energy (BLE) for commissioning
- On-board DMX512-A-RDM, with DMX slots set by RDM or via wireless araya5 Tunable Color 2.0 iOS app
- Lutron EcoSystem compatibility via optional Digital Control Adapter
- Wattstopper DLM compatibility via an optional adapter
- Scene set enables up to five scenes to be preprogrammed and recalled using a 0 - 10V recommended dimmer
- Light emitting surface (LES): 9 mm, 12 mm and 19 mm (nominal)
- Zhaga compliant footprint and front heat sink mounting
- Provisions for reflector mounting

araya5 TUNABLE COLOR 2.0

araya5 Tunable Color 2.0 iOS App

Photometrics and Ordering Codes

Tunable Range: 1650 - 8000K	Nominal Wattage	CTM 109		CTM 112		CTM 119 / 119NR		
		Typical Peak Lumens	Ordering Code	Typical Peak Lumens	Ordering Code	Typical Peak Lumens	Ordering Code (CTM 119)	Ordering Code (CTM 119NR)
Specifications**	35W	N/A	N/A	N/A	N/A	2000	80.002.082.01	N/A
	25W	N/A	N/A	N/A	N/A	1500	80.002.083.01	N/A
	25W	950	80.002.045.01	1000	80.002.048.01	1250	80.002.051.01	80.002.054.01
	18W	750	80.002.046.01	900	80.002.049.01	1000	80.002.052.01	80.002.055.01
	12W	550	80.002.047.01	650	80.002.050.01	750	80.002.053.01	80.002.056.01
CRI (Ra) Across Tuning Range	>90*							
Dimming	100% to 1% in increments of 1% at constant CCT							
Nominal Color Consistency	<2 MacAdam ellipse (±0.002 Duv from ANSI C78.377-2008 curve)*							
Color Consistency Over Life	Calibration maintains original color points over life*							
Lumen Maintenance	L70 (70% of initial lumens) at 50,000 hours							

*From 2000 - 6000K, down to 5% dim level. **Lumen and wattage range is within +/- 10% of the nominal value. Peak efficacy is not necessarily at typical peak lumens.

2 ELECTRICAL & MECHANICAL SPECIFICATIONS

2.1 Electrical Specifications

Input Voltage	24V DC
Nominal Power Input	35, 25, 18 and 12 Watts
Nominal Current Input	35W: 1.46A; 25W: 1.04A; 18W: 0.75A; 12.5W: 0.5A
Power Supply Classification	Class 2
Power Connector	Molex 874380243 (requires Molex 874390200)
Control Connector	Molex 874370543 (requires Molex 874390700)
Control Options[1]	0 - 10V, DMX512-A-RDM[2], Lutron® EcoSystem, Wattstopper® DLM
CCT and Dimming Control Connections	Connector harness, 24 gauge leads

1. DMX channel configuration is done via RDM or wireless Tunable Color iOS app. Lutron EcoSystem requires optional Digital Control Adapter. Wattstopper DLM compatibility requires optional external adapter from Wattstopper.
2. Remote Device Management or RDM is a protocol enhancement to DMX512-A that allows bi-directional communication between a lighting or system controller and attached RDM compliant devices over a standard DMX line.

2.1a Control Specifications

PROTOCOL	1 DIMMING	2 CCT	3 SAT	4 HUE	NOTES
DMX512-A-RDM	1%	1650 - 8000K	1 - 100%	1 - 60°	
0 - 10V	~1% [1]	1650 - 8000K	*	*	1. 1 - 10V signal dims module to approximately 1%. In-line power relay required to achieve 0% output.
LUTRON ECOSYSTEM [2]	1%	1650 - 8000K			2. Requires external Digital Control Adapter.
WATTSTOPPER DLM [3]	1%	1650 - 8000K			3. Requires external LMFC-LXI adapter by Wattstopper.

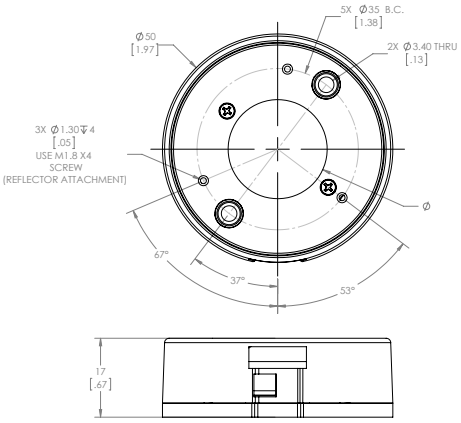
*Two 0-10V lines can be used to control DIM and CCT independently, or program Scenes — in any combination of DIM, CCT, HUE and SAT — and recall them with five 0-10V presets.

2 ELECTRICAL & MECHANICAL SPECIFICATIONS

2.2 Mechanical Specifications

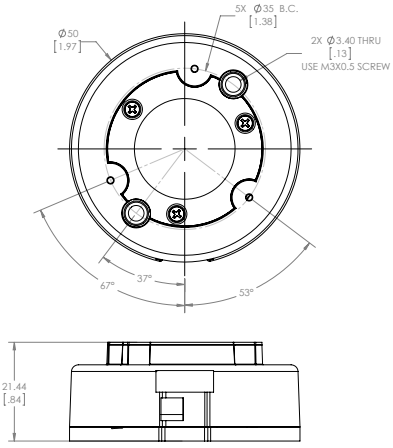
Dimensions	Diameter:	1.97 inches (50 mm)
	Height:	0.67 inches (17 mm); CTM 119NR: 0.84 inches (21.44 mm)
Light Emitting Surface	9 mm, 12mm and 19 mm (nominal)	
Weight	0.12 pounds (0.06kg)	
Heat Sink Attachment	Front mount, M2.5 or 4-40 Screws	
Max Case Temperature	≤90°C	

CTM 119 (1250 lumens), CTM 112, CTM 109

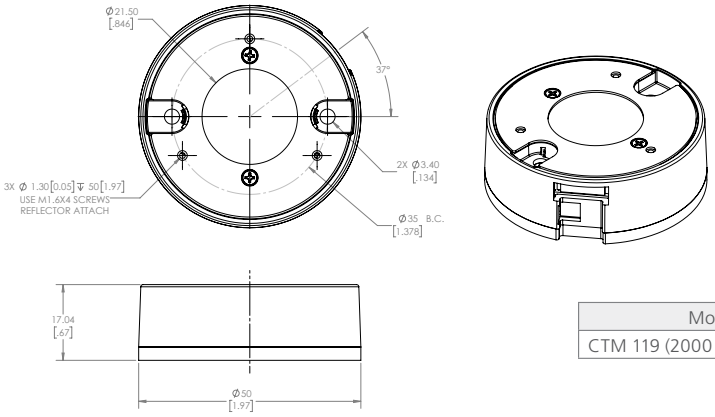


Model	LES Diameter
CTM 109	9.5 mm (0.37 inches)
CTM 112	12.75 mm (0.50 inches)
CTM 119	22 mm (0.87 inches)

CTM 119NR (1250 lumens) – Raised Face



CTM 119 (2000 / 1500 lumens)



Model	LES Diameter
CTM 119 (2000 / 1500 lumens)	22 mm (0.87 inches)

3 POWER SUPPLY REQUIREMENTS

3.1 Electrical Specifications

Description and Nominal Power Input	CTM 109/112/119/119NR, 12W	CTM 109/112/119/119NR, 18W	CTM 109/112/119/119NR, 25W	CTM 119, 35W
Input Voltage	24V DC	24V DC	24V DC	24V DC
Nominal Current Input	12.5W: 0.52A	18W: 0.75A	25W: 1.04A	35W: 1.46A
Power Supply Classification	Class 2 (UP TO 100W)	Class 2 (UP TO 100W)	Class 2 (UP TO 100W)	Class 2 (UP TO 100W)

IMPORTANT

The Color Tuning Module has on-board drive electronics, including dimming. A dimming driver should NOT be used.

3.2 Recommended Power Supplies (Constant Voltage)

Manufacturer	Part Number	Rated Power	12W Module	18W Module	25W Module (1250 lumens)	25W Module (1500 lumens)	35W Module
Mean Well	APV-25-24	25W	✓	✓			
High Perfection Tech HK (MagTech)	LP1026-24	30W	✓	✓	✓		
Mean Well	APV-35-24	35W	✓	✓	✓		
Efore / Roal	Strato RSLP035-24	36W	✓	✓	✓		
ERP	VLM40W-24	40W	✓	✓	✓		
Inventronics	EUV-042S024PS	42W				✓	✓
ERP	VLM60W-24	60W				✓	✓
Mean Well	IRM-60-24ST	60W				✓	✓
Efore / Roal	Strato RSLP070-24	72W				✓	✓
Mean Well	APV-100-24 *	100W	✓	✓	✓		
Mean Well	HLG-120H-24A **	120W	✓	✓	✓		
Gre Alpha	XLD200-2-24V-FC	200W	✓	✓	✓	✓	

CAUTION:

- Using a constant current power supply will damage the module, and will void the Lumenetix warranty.
- Using a triac or dimming driver will damage the module, and will void the Lumenetix warranty.
- The power supply MUST be evaluated with the module(s) that it will be operated with.
- If a recommended power supply from the above list is not used, it will void the Lumenetix warranty.
- If unqualified power supplies are used in a fixture, it will void the Lumenetix warranty.
- It is the responsibility of the fixture manufacturer to ensure that the power supply performance does not change over time. The Lumenetix warranty is void if problems occur as a result of such changes.
- **DO NOT HOT PLUG THE LIGHT FIXTURES.**

*TESTED WITH A QUANTITY OF THREE 25W MODULES.

**U.L. CLASS 1 — NON-NORTH AMERICA ONLY.

NOTES:

- Recommendations are subject to change. Consult your Lumenetix representative for the most updated list.
- Please contact the power supply manufacturer to verify that the current version of the listed power supply still meets the latest Lumenetix testing approvals / qualifications.
- Power supply qualification process:: if a power supply that is not part of the above list is submitted for testing to Lumenetix (during the design-in phase), it will be qualified or disqualified within two weeks of submission.

4 HEAT SINKING RECOMMENDATIONS

The Color Tuning Module requires an external heat sink in order to ensure proper operating temperature of the LEDs. The CTM has a conductive aluminum case and an efficient thermal path to the LED array. These features promote efficient thermal management and allow for a simple heat sink design in most applications.

Examples of heat sinking methods are cast or extruded heat sinks. Both carbon and stainless steel are much less efficient at transferring heat than aluminum and therefore are not recommended as heat sink materials. The heat sink mounting surface should be flat and smooth. Metal-to-metal contact surfaces will result in best performance; anodized or unfinished mounting surfaces are recommended. Mounting the CTM on a painted aluminum surface will reduce the performance of the heat sink material.

In many fixtures, the air flow to the heat sinks is obstructed or the heat sink is in an enclosed container with no path to reject heat. The thermal design of the fixture must be optimized so that the maximum temperature is less than the Tc_{max} (maximum case temperature) as indicated in the drawings in the following section. If the Tc_{max} is exceeded in the application, the junction temperature of the LEDs will be higher than that required to meet the L70 life, and the Lumenetix warranty will be void.

IMPORTANT: Most heat sinks are qualified in "free air" at an approximate ambient temperature of 25°C. If the CTM is installed in an insulated can fixture (IC Can), the module may exceed the recommended operating temperature. The heat sink must be evaluated and temperature tested in the fixture at applicable ambient temperatures for the desired application.

5 CASE TEMPERATURE MEASUREMENT POINTS

The thermal management characteristics of the heat sink used with the CTM1 should be validated by measuring its case temperature. This test should be done with the CTM1 installed in the fixture at ambient temperature and air flow conditions similar to the end-use installation.

The power draw of the CTM1 family varies by approximately one watt over the CCT range with peak power draw occurring at the CCT shown in the following table. The case temperature should be measured at the following CCT setting.

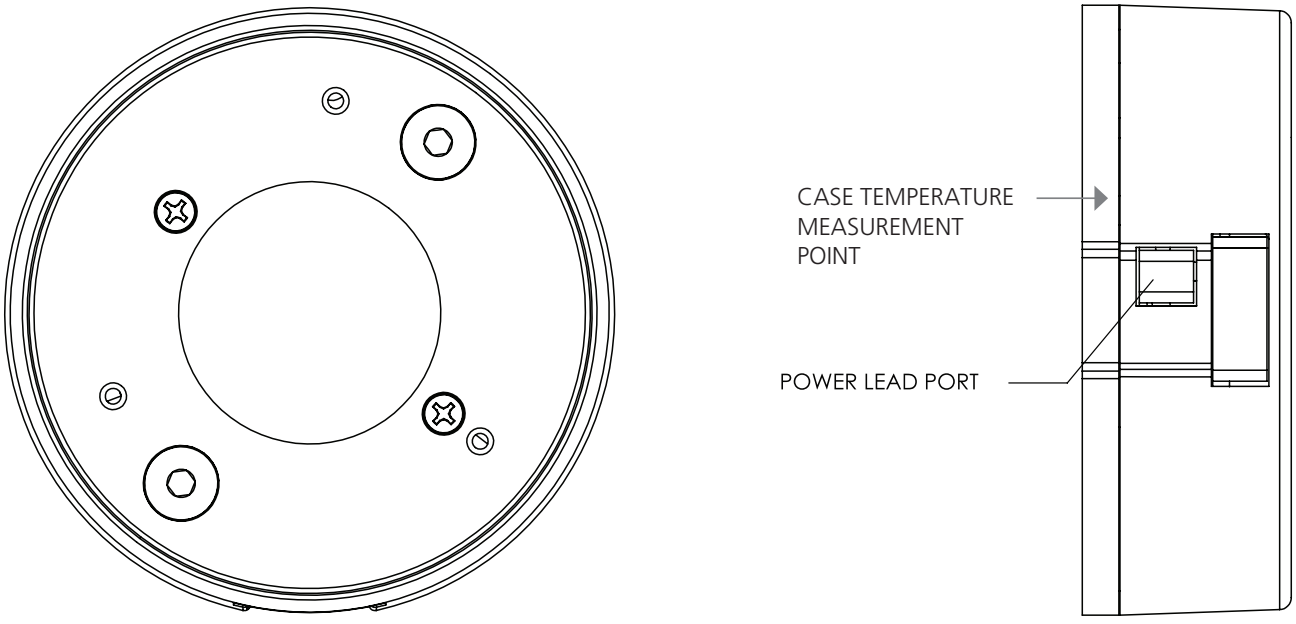
CCT Setting for Case Temperature (T_C) Measurement

CCT range	CCT Setting to Measure T_C
1650 – 8000K	3500K

The proper case temperature measurement location is on the narrow metal band, next to the power lead port; see figure below. The case temperature reading should be made after the unit has reached steady state, where the case temperature levels out. It is recommended to design the thermal management system for a case temperature of 90˚C.

Maximum case temperature: 90˚C

The Color Tuning Module has on-board thermal protection to reduce the current to the LEDs when the maximum case temperature is exceeded. This prevents unacceptably high LED junction temperatures by slightly dimming the module.



Case Temperature Measurement Point

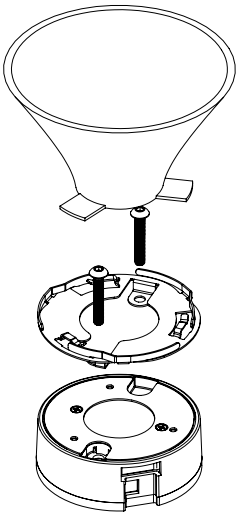
6 SECONDARY OPTICS

6.1 Attaching Compatible CTM1 Reflectors

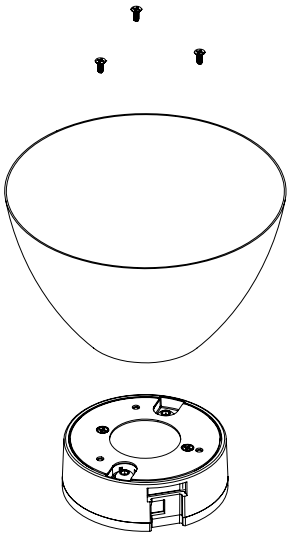
CTM 119 (2000 / 1500 lumens) accepts either twist-to-lock reflectors with the Xicato XSA-242 adapter ring, or reflectors for direct attachment to the module. CTM 109, CTM 112 and CTM 119 have provisions for TE Type-2 clip reflectors. CTM 119NR accepts twist-to-lock reflectors with an attachment collar. The fastener specifications are shown in the following table while mounting hole locations are shown in the figures below.

CTM1 Secondary Optics Fastener Specifications

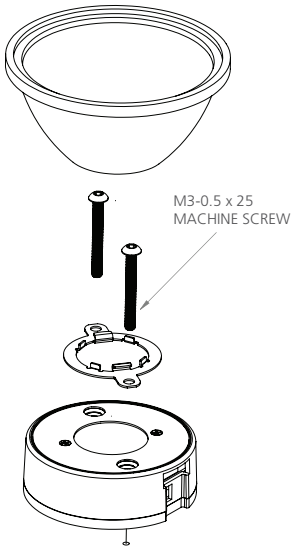
CTM1 Reflector	Fastener specifications	Screw length	Notes
Twist Lock w/ XSA-242 Adapter Ring	M3-0.5 x 18	18 mm	Machine screws; attach to heat sink (not directly to module)
Direct Attachment	M1.6 x 4	4 mm	Thread forming; use flat head screws
TE Type 2 Clip	M3-0.5 x 25	25 mm	Machine screws; attach to heat sink (not directly to module)
Twist Lock w/ Collar (CTM 119NR)	2 - 28; M1.8 x 6	6 mm	Thread forming; use flat head screws



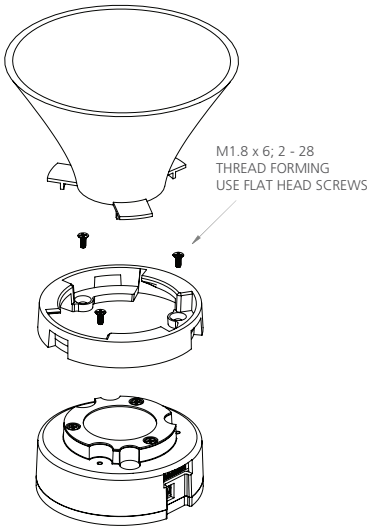
CTM 119 (2000 / 1500 lumens) Twist-Lock Style Reflectors with Xicato XSA-242 Adapter Ring



CTM 119 (2000 / 1500 lumens) Direct Attachment Reflectors



CTM 119 (1250 lumens) / CTM 112 / CTM 109 TE Type 2 Clip Reflectors (by Khatod)



CTM 119NR (1250 lumens) Twist-Lock Style Reflectors with Attachment Collars

6 SECONDARY OPTICS

6.2 Compatible Reflectors for CTM 109 and CTM 112

Compatible Reflectors for CTM 109

Manufacturer	M. Part Number	beam angle (deg)	outer dim (mm)	height (mm)	optical finish	optical finish 2	attach method
Khatod EASY	KCLP 1858ME		72	52	honeycomb lens	none	Zhaga Screw 35mm
Khatod EASY	KCLP 1858WI		72	52	bug eye lens	none	Zhaga Screw 35mm
Khatod Lyra	PLJT 1521				diffuser ball white		TE Type II

Compatible Reflectors for CTM 112

Manufacturer	M. Part Number	beam angle (deg)	outer dim (mm)	height (mm)	optical finish	optical finish 2	attach method
Diffractive Optics	P13827	20	69	33	specular	superfacet, diamond	P13688, screw 35mm
Diffractive Optics	P13829	30	69	33	specular	superfacet, diamond	P13688, screw 35mm
Diffractive Optics	P13767	20	75	42.3	specular	superfacet, diamond	P13688, screw 35mm
Diffractive Optics	P13831	30	75	42.3	specular	superfacet, diamond	P13688, screw 35mm
Diffractive Optics	P13771	20	85	43.3	specular	superfacet, diamond	P13688, screw 35mm
Diffractive Optics	P13833	30	85	43.3	specular	superfacet, diamond	P13688, screw 35mm
Diffractive Optics	P13775	20	92	43.3	specular	superfacet, diamond	P13688, screw 35mm
Diffractive Optics	P13781	30	92	43.3	specular	superfacet, diamond	P13688, screw 35mm
Diffractive Optics	P13713	20	75	37	specular	faceted	P13688, screw 35mm
Diffractive Optics	P13715	35	75	37	specular	faceted	P13688, screw 35mm
JORDAN	11324 10 10101	25	111	66	specular	super facet	none
JORDAN	11324 00 10101	40	111	66	specular	super facet	none
JORDAN	11323 90 15101	40	75	42	specular	square sf	none
JORDAN	11415 60 10101	35	75	43	specular	fish scale sf	none
JORDAN	11415 40 10101	20	75	43	specular	fish scale sf	none
Khatod	KCLP 1682 ST (1429ST)	20	65	35	diffuse	none	TE Type II
Khatod	KCLP 1683 ST (1430ST)	24	65	35	diffuse	none	TE Type II
Khatod	KCLP 1685 ST (1432ST)	32	65	35	diffuse	none	TE Type II
Khatod	KCLP 1684 ST	28	65	35	diffuse	none	TE Type II
Khatod	KCLP 1687 ST	31	65	35	diffuse	none	TE Type II
Khatod	KCLP 1688 ST	38	65	35	diffuse	none	TE Type II
Khatod	KCLP 1689 ST	42	65	35	diffuse	none	TE Type II
Khatod	KCLP 1690 ST	50	65	35	diffuse	none	TE Type II
Khatod	KCLP 1691 ST	56	65	35	diffuse	none	TE Type II
Khatod EASY	KCLP 1858ME		72	52	honeycomb lens	none	Zhaga Screw 35mm
Khatod EASY	KCLP 1858WI		72	52	bugeye lens	none	Zhaga Screw 35mm
Khatod Lyra	PLJT 1521				diffuser ball white		TE Type II
Nata	3990-E	24	75	43	diffuse	super facet	none
Nata	3991-E	36	75	43	diffuse	super facet	none
Nata	3992-E	25	85	50.5	diffuse	super facet	none
Nata	3993-E	40	85	50.5	diffuse	super facet	none
Nata	4-1405E	16	98	66.4	specular	facets	none
Nata	4-1406E				diffuse	super facet	none
Nata	2-1535E		75	44	m-diffuse	super facet	none
Nata	4-1664E	24	111	65	m-diffuse	super facet	none / 3 tabs
Nata	4-1666E	38	111	65	diffuse	super facet	none / 3 tabs
Nata	4-1667E	45	111	61.3	m-diffuse	super facet	none
Nata	4-1820E	60	111	65	diffuse	super facet	none / 3 tabs
Widegerm	3205-BL	36	82	45	diffuse	faceted	none
Widegerm	1021-CZ, -LG	~43	50	24.5	satin	faceted	none
Widegerm	1128-CZ, -LG	~28	50	24.5	satin	none	none
Widegerm	2201-medium LES	10	72	43	diffuse	faceted	none
Widegerm	2202-medium LES	36	72	43	m-specular	faceted	none

NOTE: Reflectors have been recommended based on independent optical tests conducted by Lumenetix, and should be used as guidelines. Final reflector evaluation should be made by fixture manufacturers with all optics in place.

6 SECONDARY OPTICS

6.3 Compatible Reflectors for CTM 119 (1250 lumens)

Manufacturer	M. Part Number	beam angle (deg)	outer dim (mm)	height (mm)	optical finish	optical finish 2	attach method
JORDAN	11324 10 10101	25	111	66	specular	super facet	none
JORDAN	11324 00 10101	40	111	66	specular	super facet	none
Khatod EASY	KCLP 1858ME		72	52	honeycomb lens	none	Zhaga Screw 35mm
Khatod EASY	KCLP 1858WI		72	52	bugeye lens	none	Zhaga Screw 35mm
Khatod EASY	KCLP 1799 CR	asym			specular	none	Zhaga Screw 35mm
Khatod	KCLP 1682 CR (1429CR)	11	65	35	specular	none	TE Type II
Khatod	KCLP 1682 ST (1429ST)	20	65	35	diffuse	none	TE Type II
Khatod	KCLP 1683 ST (1430ST)	24	65	35	diffuse	none	TE Type II
Khatod	KCLP 1432 CR		65	35	specular	none	TE Type II
Khatod	KCLP 1685 ST (1432ST)	32	65	35	diffuse	none	TE Type II
Khatod	KCLP 1684 ST	28	65	35	diffuse	none	TE Type II
Khatod	KCLP 1687 CR	27	65	35	specular	none	TE Type II
Khatod	KCLP 1687 ST	31	65	35	diffuse	none	TE Type II
Khatod	KCLP 1688 CR	37	65	35	specular	none	TE Type II
Khatod	KCLP 1688 ST	38	65	35	diffuse	none	TE Type II
Khatod	KCLP 1689 ST	42	65	35	diffuse	none	TE Type II
Khatod	KCLP 1690 ST	50	65	35	diffuse	none	TE Type II
Khatod	KCLP 1691 ST	56	65	35	diffuse	none	TE Type II
Khatod	PLJT 1521				diffuser ball white		TE Type II
Nata	3990-E	24	75	43	diffuse	super facet	none
Nata	3991-E	36	75	43	diffuse	super facet	none
Nata	3992-E	25	85	50.5	diffuse	super facet	none
Nata	3993-E	40	85	50.5	diffuse	super facet	none
Nata	4-1149E2	39	111	65	m-diffuse	super facet	none
Nata	4-1150E5	39	111	65	m-diffuse	super facet	none
Nata	4-1405E	16	98	66.4	specular	facets	none
Nata	4-1406E				diffuse	super facet	none
Nata	2-1535E		75	44	m-diffuse	super facet	none
Nata	4-1536E	20	110	65.3	m-diffuse	super facet	none
Nata	4-1537E	30	110	62	diffuse	super facet	none
Nata	4-1664E	24	111	65	m-diffuse	super facet	none / 3 tabs
Nata	4-1666E	38	111	65	diffuse	super facet	none / 3 tabs
Nata	4-1667E	45	111	61.3	m-diffuse	super facet	none
Nata	4-1820E	60	111	65	diffuse	super facet	none / 3 tabs
Widegerm	3150-CZ	~14	82	45	m-specular	faceted	none
Widegerm	3158-CZ	15	91.5	47	diffuse	faceted	none
Widegerm	3163-CZ	22	91.5	47	m-specular	faceted	none
Widegerm	3205-BL	36	82	45	diffuse	faceted	none
Widegerm	2094-CZ	15	72	45	m-specular	faceted	none
Widegerm	2095-CZ	23	72	45.5	m-specular	faceted	none
Widegerm	2202-medium LES	36	72	43	m-specular	faceted	none

NOTE: Reflectors have been recommended based on independent optical tests conducted by Lumenetix, and should be used as guidelines.
Final reflector evaluation should be made by fixture manufacturers with all optics in place.

6 SECONDARY OPTICS

6.4 Compatible Reflectors for CTM 119NR (1250 lumens)

Manufacturer	M. Part Number	beam angle (deg)	outer dim (mm)	height (mm)	optical finish	optical finish 2	attach method
Diffractive Optics	P7076 (xsa-17)						XSM T/L
Diffractive Optics	P6645						XSM T/L
Diffractive Optics	P6680						XSM T/L
Diffractive Optics	P7899 (xsa-22)	40	49.3	28.6	specular	faceted	XSM T/L
Diffractive Optics	P6764 (xsa-21)	60	50	29	specular	none	XSM T/L
JORDAN	11324 10 10101	25	111	66	specular	super facet	direct screws
JORDAN	11324 00 10101	40	111	66	specular	super facet	direct screws
Nata	3990-E	24	75	43	diffuse	super facet	none
Nata	3991-E	36	75	43	diffuse	super facet	none
Nata	3992-E	25	85	50.5	diffuse	super facet	none
Nata	3993-E	40	85	50.5	diffuse	super facet	none
Nata	4-1149E2	39	111	65	m-diffuse	super facet	none
Nata	4-1405E	16	98	66.4	specular	facets	none
Nata	4-1406E				diffuse	super facet	none
Nata	2-1535E		75	44	m-diffuse	super facet	none
Nata	4-1536E	20	110	65.3	m-diffuse	super facet	none
Nata	4-1537E	30	110	62	diffuse	super facet	none
Nata	4-1664E	24	111	65	m-diffuse	super facet	none / 3 tabs
Nata	4-1666E	38	111	65	diffuse	super facet	none / 3 tabs
Nata	4-1667E	45	111	61.3	m-diffuse	super facet	none
Nata	4-1820E	60	111	65	diffuse	super facet	none / 3 tabs
Widegerm	3159-CZ	34	91.5	47	m-specular	faceted	none
Widegerm	3205-BL	36	82	45	diffuse	faceted	none
Widegerm	2202-medium LES	36	72	43	m-specular	faceted	none

NOTE: Reflectors have been recommended based on independent optical tests conducted by Lumenetix, and should be used as guidelines. Final reflector evaluation should be made by fixture manufacturers with all optics in place.

6 SECONDARY OPTICS

6.5a Compatible Reflectors for CTM 119 (2000 / 1500 lumens) - Part-1

Manufacturer	M. Part Number	beam angle (deg)	outer dim (mm)	height (mm)	optical finish	optical finish 2	attach method
JORDAN	11324 10 10101	25	111	66	specular	super facet	none
JORDAN	11324 00 10101	40	111	66	specular	super facet	none
Khatod	KCLP 1682 ST (1429ST)	20	65	35	diffuse	none	XSA242 + KE1950W
khatod	KCLP 1683 CR (1430CR)	26	65	35	specular	none	XSA242 + KE1950W
khatod	KCLP 1683 ST (1430ST)	24	65	35	diffuse	none	XSA242 + KE1950W
khatod	KCLP 1685 ST (1432ST)	32	65	35	diffuse	none	XSA242 + KE1950W
khatod	KCLP 1688 CR	37	65	35	specular	none	XSA242 + KE1950W
khatod	KCLP 1688 ST	38	65	35	diffuse	none	XSA242 + KE1950W
khatod	KCLP 1689 ST	42	65	35	diffuse	none	XSA242 + KE1950W
khatod	KCLP 1690 ST	50	65	35	diffuse	none	XSA242 + KE1950W
khatod	KCLP 1691 ST	56	65	35	diffuse	none	XSA242 + KE1950W
khatod	PLJT 1866	n/a			diffuse ball		T/L XSM242
Nata	3990-E	24	75	43	diffuse	super facet	none
Nata	3991-E	36	75	43	diffuse	super facet	none
Nata	3992-E	25	85	50.5	diffuse	super facet	none
Nata	3993-E	40	85	50.5	diffuse	super facet	none
Nata	2-1050A	25	65	44	satin	none	XSA242
Nata	2-1131E	18	68	51	m-diffuse	facets	XSA242
Nata	2-1132E	30	68	51	m-diffuse	super facet	XSA242
Nata	2-1133E	45	68	51	m-diffuse	super facet, flare	XSA242
Nata	4-1149E2	39	111	65	m-diffuse	super facet	none
Nata	4-1150E5	39	111	65	m-diffuse	super facet	none
Nata	4-1405E	16	98	66.4	specular	facets	none
Nata	4-1406E				diffuse	super facet	none
Nata	2-1535E		75	44	m-diffuse	super facet	none
Nata	4-1536E	20	110	65.3	m-diffuse	super facet	none
Nata	4-1537E	30	110	62	diffuse	super facet	none
Nata	4-1664E	24	111	65	m-diffuse	super facet	none / 3 tabs
Nata	4-1666E	38	111	65	diffuse	super facet	none / 3 tabs
Nata	4-1667E	45	111	61.3	m-diffuse	super facet	none
Nata	4-1820E	60	111	65	diffuse	super facet	none / 3 tabs
Nata	3-1903M	40	79	51	m-diffuse	super facet	XSA242
Nata	4-1983E	24	110	65	specular	super facet	XSA242
Nata	2834A	43	70	43.5	satin	none	XSA242
Nata	4-1966E	7	111	65	m-diffuse	super facet	XSA242

NOTE: Reflectors have been recommended based on independent optical tests conducted by Lumenetix, and should be used as guidelines.
Final reflector evaluation should be made by fixture manufacturers with all optics in place.

6 SECONDARY OPTICS

6.5b Compatible Reflectors for CTM 119 (2000 / 1500 lumens) - Part-2

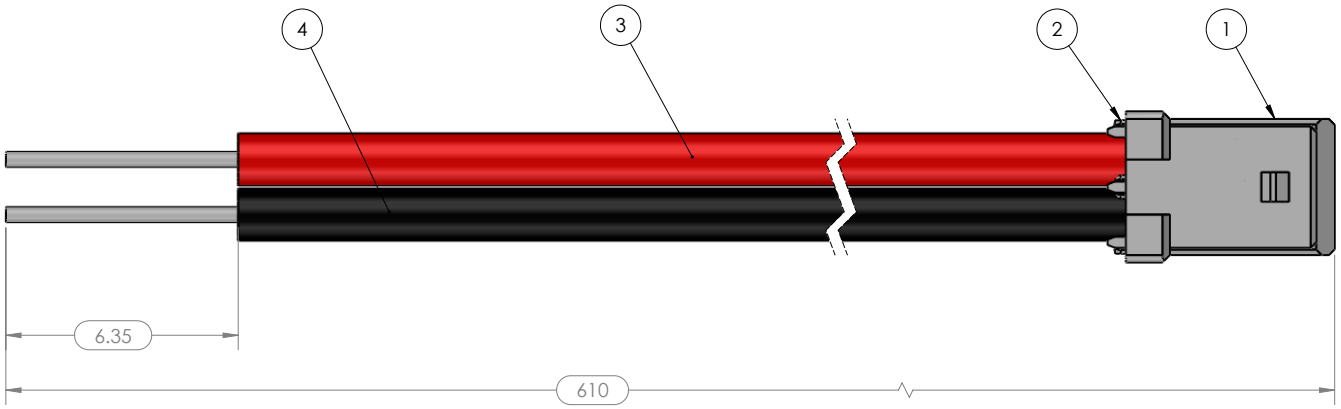
Manufacturer	M. Part Number	beam angle (deg)	outer dim (mm)	height (mm)	optical finish	optical finish 2	attach method
Widegerm	1009T-XC	38	49	30.5	specular	faceted	XSA242 T/L
Widegerm	208x-XM		71.5	54	satin	lightfaceted	XSA242 T/L
Widegerm	2087-XM	19	71.5	54	m-specular	faceted	XSA242 T/L
Widegerm	2096T-XM	50	72	45.5	satin	lightfaceted	XSA242 T/L
Widegerm	2202T-XM	35	72	44	m-diffuse	faceted	XSA242 T/L
Widegerm	3204T-XM	27	82	46	m-diffuse	faceted	XSA242 T/L
Widegerm	3205T-XM	36	82	46	specular	faceted	XSA242 T/L
Widegerm	3207T-XC	-	82	46	satin	none	XSA242 T/L
Widegerm	4219T-XM	20	111	36	diffuse	faceted	XSA242 T/L
Widegerm	4220T-XM	37	111	36	m-specular	faceted	XSA242 T/L
Widegerm	4221T-XM	47	111	36	m-specular	faceted	XSA242 T/L
Widegerm	4201T-XC	15	111	69	diffuse	faceted	XSA242 T/L
Widegerm	4301T-XM	36	111	69	m-diffuse	faceted	XSA242 T/L
Widegerm	4401T-XM	43	111	69	m-diffuse	faceted	XSA242 T/L
Widegerm	3158-CZ	15	91.5	47	diffuse	faceted	none
Widegerm	3159-CZ	34	91.5	47	m-specular	faceted	none
Widegerm	3163-CZ	22	91.5	47	m-specular	faceted	none
Widegerm	3205-BL	36	82	45	diffuse	faceted	none
Widegerm	2094-CZ	15	72	45	m-specular	faceted	none
Widegerm	2095-CZ	23	72	45.5	m-specular	faceted	none
Widegerm	2202-medium LES	36	72	43	m-specular	faceted	none

NOTE: Reflectors have been recommended based on independent optical tests conducted by Lumenetix, and should be used as guidelines.
Final reflector evaluation should be made by fixture manufacturers with all optics in place.

7 POWER / CONTROL CABLE ASSEMBLIES

7.1 Power Cable Assembly

Provides power to each module.
Lumenetix part #: 28.002.001.01



Note: All dimensions are in millimeters.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	874390200	MOLEX CONNECTOR	1
2	874210000	CRIMP	2
3	A2015R-100-ND	24 AWG WIRE, RED	1
4	A2015B-100-ND	24 AWG WIRE, BLACK	1

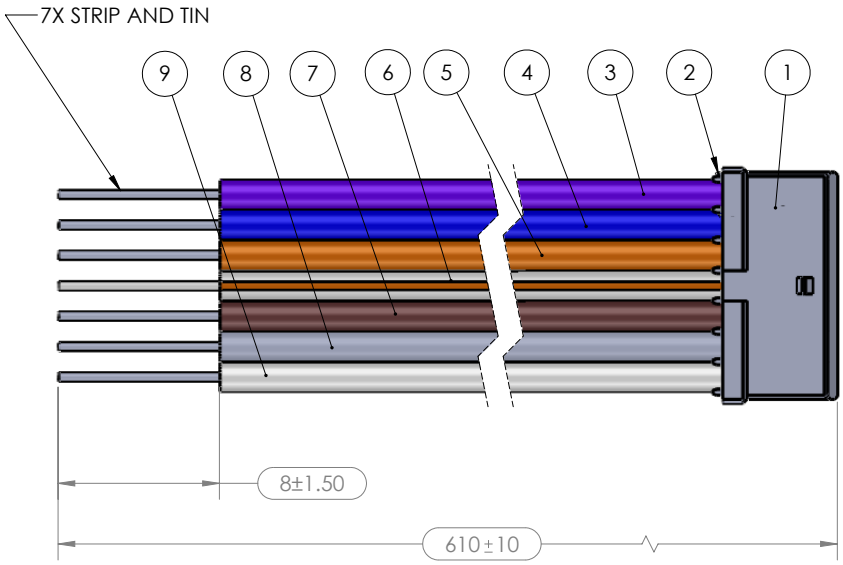
7.1.2 Pin Allocation Chart for Power Cable Assembly

Pin #	Lead Color	Input
Pin 1	Red	Power 24V DC
Pin 2	Black	Power Common

7 POWER / CONTROL CABLE ASSEMBLIES

7.2 Control Cable Assembly (7-Wire)

Provides 0-10V and Lutron EcoSystem (with the Digital Control Adapter) control, and RS-485 signals to each module.
Lumenetix part #: 28.002.002.01



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	874390700	MOLEX CONNECTOR	1
2	874210000	CRIMP	7
3	VIOLET WIRE 24AWG	HOOK-UP WIRE STRANDED 7/32 24AWG VIOLET	1
4	BLUE WIRE 24AWG	HOOK-UP WIRE STRANDED 7/32 24AWG BLUE	1
5	ORANGE WIRE 24AWG	HOOK-UP WIRE STRANDED 7/32 24AWG ORANGE	1
6	WHITE WITH ORANGE STRIPE WIRE 24AWG	HOOK-UP WIRE STRANDED 7/32 24AWG WHITE WITH ORANGE STRIPE	1
7	BROWN WIRE 24AWG	HOOK-UP WIRE STRANDED 7/32 24AWG BROWN	1
8	GREY WIRE 24AWG	HOOK-UP WIRE STRANDED 7/32 24AWG GREY	1
9	WHITE WIRE 24AWG	HOOK-UP WIRE STRANDED 7/32 24AWG WHITE	1

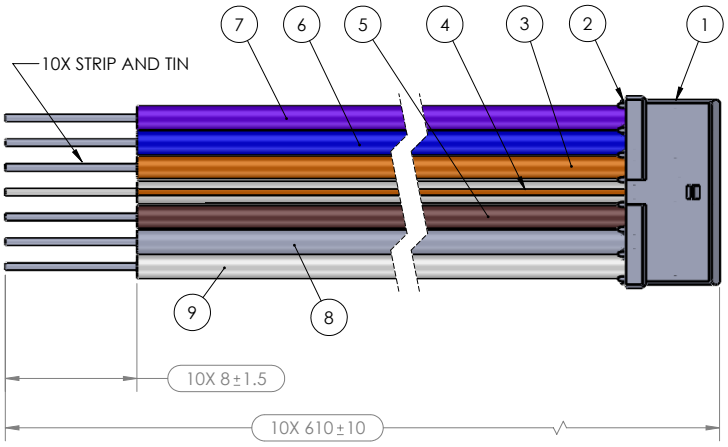
7.2.2 Pin Allocation Chart for Control Cable Assembly

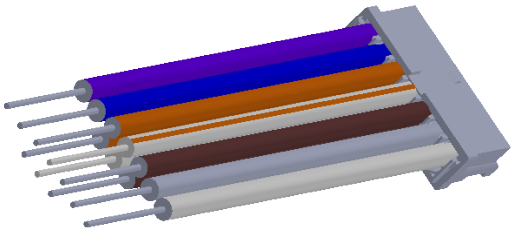
Pin #	Lead Color	Input
Pin 1	Violet	0-10V Dimming (+)
Pin 2	Blue	0-10V Color (+)
Pin 3	Orange	Data (-)
Pin 4	White with Orange Stripe	Data (+)
Pin 5	Brown	Digital Common
Pin 6	Gray	Signal Common for 0-10V Dimming (-)
Pin 7	White	Signal Common for 0-10V Color (-)

7 POWER / CONTROL CABLE ASSEMBLIES

7.3 Control Cable Assembly (7+3 Wire)

Provides dual-DMX control and RS-485 signals to each module.
Lumenetix part #: 28.002.002.05





Note: All dimensions are in millimeters.

ITEM NO.	PART NUMBER	QTY.
1	CONNECTOR MOLEX 874390700	1
2	CRIMP MOLEX 874210000	7
3	HOOK-UP WIRE STRANDED 7-34 26 AWG ORANGE	2
4	HOOK-UP WIRE STRANDED 7-34 26 AWG WHITE WITH ORANGE STRIPE	2
5	HOOK-UP WIRE STRANDED 7-34 26 AWG BROWN	2
6	HOOK-UP WIRE STRANDED 7-32 24AWG BLUE	1
7	HOOK-UP WIRE STRANDED 7-32 24AWG VIOLET	1
8	HOOK-UP WIRE STRANDED 7-32 24 AWG GREY	1
9	HOOK-UP WIRE STRANDED 7-32 24AWG WHITE	1

7.3.2 Pin Allocation Chart for Control Cable Assembly

Pin #	Lead Color	Input
Pin 1	Violet	0-10V Dimming (+)
Pin 2	Blue	0-10V Color (+)
Pins 3a / 3b (TOP / BOTTOM)	Orange	Data (-) IN / OUT
Pins 4a / 4b (TOP / BOTTOM)	White with Orange Stripe	Data (+) IN / OUT
Pin 5a / 5b (TOP / BOTTOM)	Brown	Digital Common IN / OUT
Pin 6	Gray	Signal Common for 0-10V Dimming (-)
Pin 7	White	Signal Common for 0-10V Color (-)

8 WIRING DIAGRAMS

8.1 0-10V Best Wiring Practice

Any manufacturer that makes a dimmer that sinks will work with Lumenetix modules since we source the voltage.

0-10V is a topology defined by the International Electrotechnical Commission (IECR) 60929 Annex E standard and uses a varying DC voltage between 1 and 10V to determine the lighting level. The fixture outputs a minimum light level below 1V which is defined as low-end. Between 1 and 10V, the signal corresponds to levels between the minimum and maximum output level. A signal above 10V corresponds to the maximum light level. Sometimes it is referred to as 1-10V, as that is the actual range in which the light levels will vary. Each dimmer will have their own distinct dimming profile.

Best practice is to limit the distance run for the analog control wiring from the controller to the last driver to 300', as a common 0-10V DC wiring type is stranded-copper twisted-pair 18AWG wiring. The wiring is stranded copper because it provides a more stable current path (as DC signals tend to be transferred by the outer edges of the conductor) while being relatively easy to work with; solid wire is usually acceptable in low-voltage systems that use AC control power.

Whenever any part of the control circuit (the driver, dimer, or wire used) is designed for use in a Class 2 installation, it is critical that the entire control circuit be kept separate from Class 1 line voltage wiring per the requirement of National Electric Code, section 725.136. The electrical drawings must be very clear that class 1 and class 2 wiring cannot be combined. There must be separation because: a) it is possible for higher voltage wiring to induce an AC voltage in to the low voltage signal wiring; and, b) undesirable visual artifacts in the dimmed lighting can be caused when the line and low voltage wiring is run together (especially for long distances). We do not recommend installing the low voltage signal wiring in the same conduit or raceway as line voltage wiring even when all elements of the control circuit are listed for Class 1 wiring methods.

NOTE: Lumenetix modules operate between 1-10V. All dimmers that have minimum and maximum trim pots should be set at a minimum of 1 volt and a maximum of 10 volts, measuring the voltage at the end of the line.

0-10V Dimmers (recommended list)*

Crestron

ETC

Fresco

Legrand

Leviton

Lutron

Nexlight

N-Light

Pass & Seymour

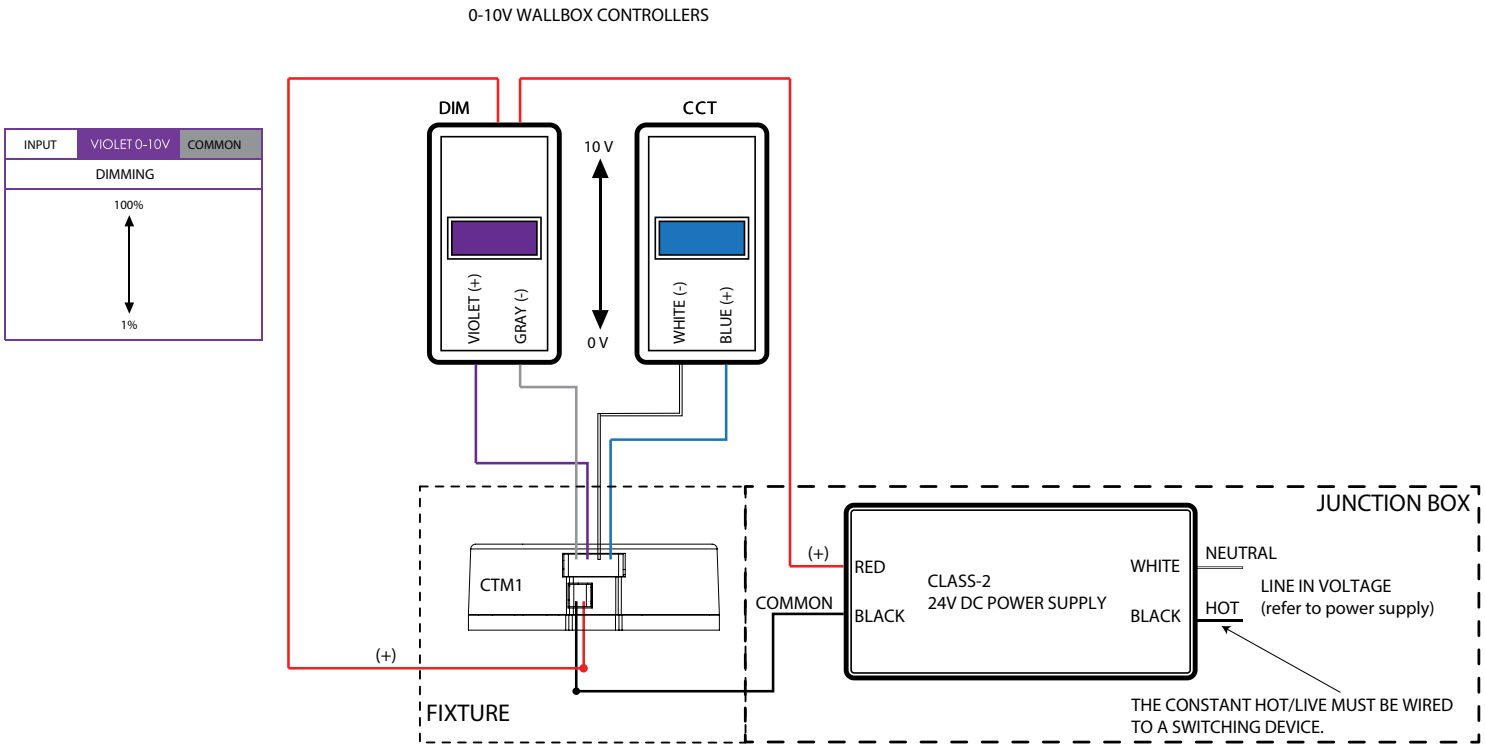
Vantage

Wattstopper

*Recommendations are subject to change. Consult your Lumenetix representative for the most updated list.

8 WIRING DIAGRAMS

8.1.1 0-10V Analog Control of CCT and Dimming



Lead Color and Input

Lead Color	Input
Red	Power 24V DC (+)
Black	Power Common (-)
Violet	0-10V Dimming (+)
Gray	Signal Common for 0-10V Dimming (-)
White	Signal Common for 0-10V Color (-)
Blue	0-10V Color (+)

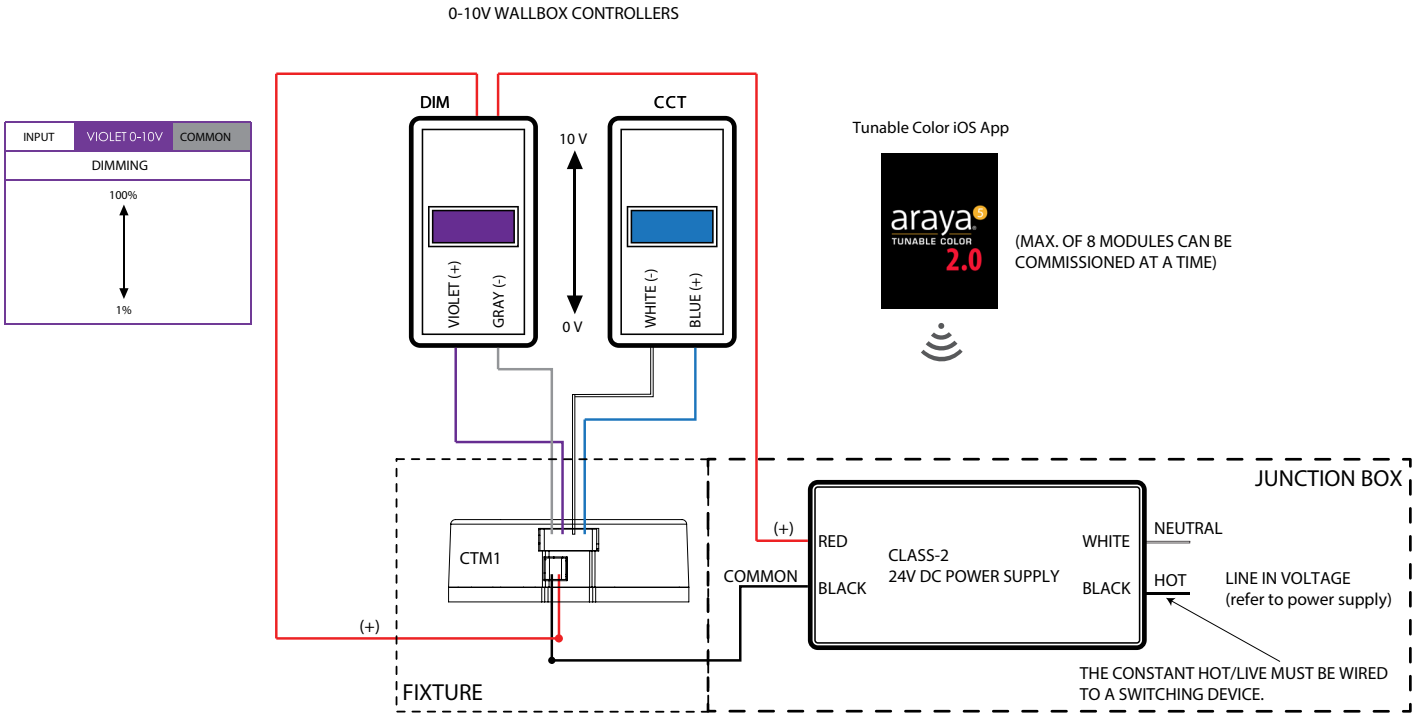
Lumenetix part #s:
28.002.001.01 (power cable assembly)
28.002.002.01 (control cable assembly)

Notes:

1. If 0-10V control is not being used for dimming, the violet control lead must be grounded to gray common lead.
2. CTM sources current to 0-10V control at 0.2mA nominal capacity.
3. *If using a wall box dimmer, power only the DIM unit. The CCT unit does not get line-in voltage.

8 WIRING DIAGRAMS

8.1.2 0-10V Analog Control of Scenes / araya[5] Tunable Color iOS App to Set or Amend Scenes



Lead Color and Input

Lead Color	Input
Red	Power 24V DC (+)
Black	Power Common (-)
Violet	0-10V Dimming (+)
Gray	Signal Common for 0-10V Dimming (-)
White	Signal Common for 0-10V Color (-)
Blue	0-10V Color (+)

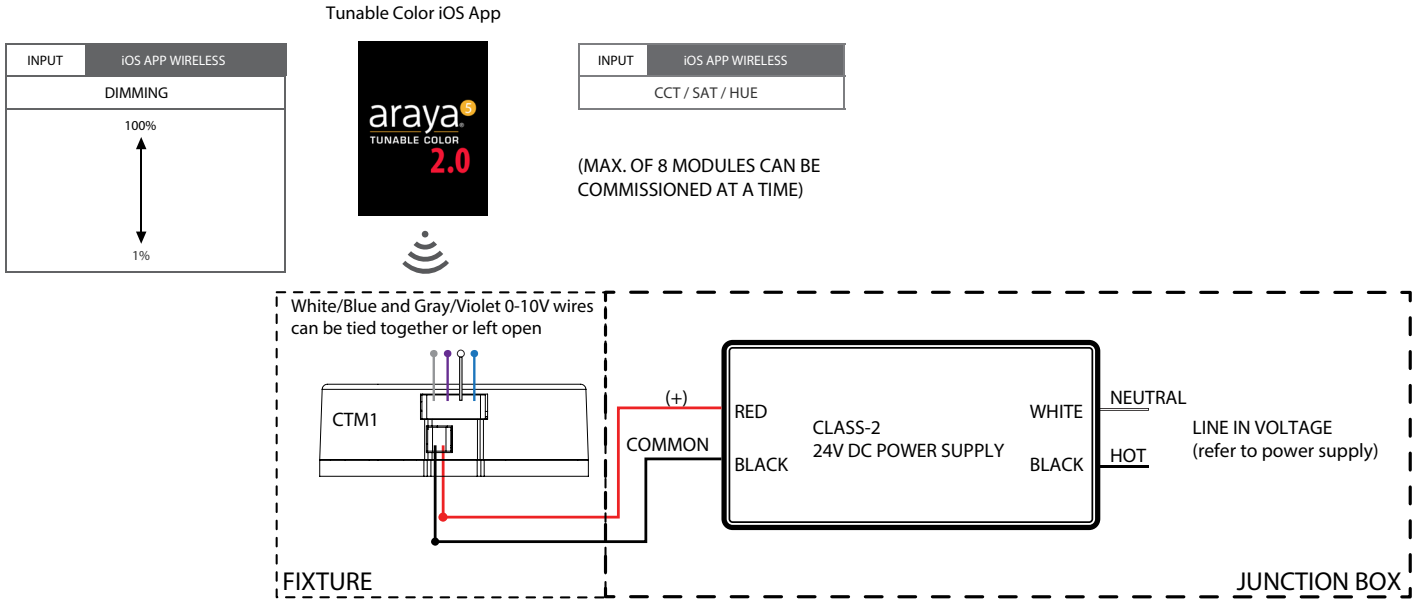
Lumenetix part #s:
28.002.001.01 (power cable assembly)
28.002.002.01 (control cable assembly)

Notes:

1. When the lamp is connected to a 0-10V line, the default is control of the continuous CCT range. The 0-10V line can instead be set to control scene set by sliding the Stored Scenes button to the "on" position in the araya[5] Tunable Color iOS App. In this mode, the 0-10V control will toggle the light between up to 5 preset scenes. A scene is comprised of a CCT, Dim, Saturation & Hue level. Individual preset scenes can also be modified and activated with the iOS app. See araya[5] Tunable Color Instruction Manual for more instructions.
2. If 0-10V control is not being used for dimming, the violet control lead must be grounded to gray common lead.
3. CTM sources current to 0-10V control at 0.2mA nominal capacity.
4. *If using a wall box dimmer, power only the DIM unit. The CCT unit does not get line-in voltage.

8 WIRING DIAGRAMS

8.2 Bluetooth Operation using the araya5 Tunable Color iOS App



Lead Color and Input

Lead Color	Input
Red	Power 24V DC (+)
Black	Power Common (-)
Violet	0-10V Dimming + (left open)
Gray	Signal Common for 0-10V Dimming (-)
Blue	0-10V Color + (left open)
White	Signal Common for 0-10V Color (-)

Lumenetix part #s:
28.002.001.01 (power cable assembly)
28.002.002.01 (control cable assembly)

Notes:

1. Maximum of 8 modules can be commissioned at a time.
2. Bluetooth operation should be used only for commissioning modules, NOT controlling them.
3. See araya5 Tunable Color Instruction Manual for more details.

8 WIRING DIAGRAMS

8.3 DMX512-A Protocol

DMX512-A is an acronym for Digital Multiplex, a communication protocol used to remotely control lighting dimmers and intelligent fixtures. It is designed to provide a common communications standard between these lighting devices regardless of the manufacturer. The 512-A after the DMX refers to the number of control channels used on one network segment (often called a 'universe') of devices. In a simple dimming system, one channel controls the intensity of the fixture. A single intelligent fixture such as the araya5 requires several channels to control its various parameters (one channel each for DIM, CCT, SAT, HUE).

DMX512A Specifications:

- DMX 512-A (Controller).
- A universe is 512 Channels.
- DMX value is between 0 and 255, where 0 is off and 255 is full on.
- The maximum number of devices in a daisy-chain wire run is 32, which include the controller and opto-splitter.
- The maximum network wire run is a distance of up to 1600 feet for non-RDM systems and up to 1000 feet for RDM systems.
- One device functions as the master (DMX controller) on a network, while the rest function as slaves (mergers, splitters, intelligent fixtures, etc.).
- Only the controller (master) transmits over the network, and all fixtures receive the same data.
- The final device in the daisy-chain must be terminated with a 120 ohm resistor between DMX+ and DMX- pins.
- It is recommended that the terminator for the final device be located in the control panel, if it falls within the recommended wiring distance.
- All wiring must be in a continuous run and daisy-chained.
- Star wiring is only allowed in conjunction with an opto-splitter.
- Do not run DMX control cable in close proximity to AC power lines. EM spikes from switching of high-current devices such as HVAC equipment or generators will induce noise into the DMX cable.
- The shield must be carried through between modules and properly grounded at one point only.
- Connections to DMX512-A-RDM accessory board: wire size to be 24AWG, and solid or stranded cables may be used. Stranded wire used must be tinned or installed with ferule connector.

RDM

DMX512-A control protocol that enables Remote Device Management for two-way communications for configuration, monitoring and system setup. Allows two way communication between lighting controller and the fixtures. Allows for remote setting of DMX start addressing. RDM signals are sent back the other way, but not constantly. Controller can ask one or more devices for query feedback. RDM packets are inserted in-between the existing DMX data packets being used to control the lighting. The DMX Control Console will broadcast up to 512 channels over one DMX cable (max. run of 1000 feet for RDM). Some of these channels may not be used, but will still be transmitted, as required by the protocol. It must be set to a desired channel (001, 002. 003. 004, etc.) to control the connected light fixture. This is usually accomplished using RDM. This desired 'channel' is commonly known as the DMX address. When addressing fixtures, it is not recommended to skip addresses.

When RDM is not available with the control system, it is permissible to use the Lumenetix commissioning tool (the araya5 Tunable Color 2.0 iOS App) to set the address of the slots. The instructions to configure the DMX channels can be found in the separate araya5 Tunable Color Instruction Manual.

The DMX512-A interface follows the ANSI E1.11-2008 (R21013) standard. Four address slots are allocated to each interface board and control the Dim level, CCT, Saturation and Hue of the araya5 modules connected to the board.

Default DMX512-A Slot Allocation:

Slot	Function
1	Dim Level
2	CCT
3	Saturation Level
4	Hue

8 WIRING DIAGRAMS

8.3.1 DMX512-A Electrical Specifications

Parameter	Range	Remarks
ESD Protection	±15KV (air), ±8KV (conducted)	Per IEC 61000-4-2
Termination	Recommended	The DMX512 bus termination rules apply
Directionality	Receive only	
Frequency stability	±20ppm	
Load per port	1/256	1/8 of Nominal RS-485
Isolation	$3KV_{rms}$	

DMX512-A Control Systems (recommended list)

Choreo
Cognito
Crestron Greenlight System
Entec
ETC Mosaic
ETC Paradigm
Fresco
Interactive Technologies
Lutron HomeWorks QS
Lutron Quantum
Nicolaudie
Pathway Connectivity
Pharos
Traxon Ecue
Vantage Controls

*Recommendations are subject to change. Consult your Lumenetix representative for the most updated list.

DMX512-A Recommended Internal / Field Wiring

TMB Cable ProPlex DMX

PC224T: 2-pair DMX512 cable, overall foil and braid shielding with drain wire. UV and fungus resistant. Fully rated for installations, yet easy handling for light duty portable applications.

PC224TW: Same as above, with white jacket.

For use as DMX in/out under one jacket:

PC244T: Two individually shielded pairs and drain wires. UV resistant. Color coded foil shielding for easy reference.

8 WIRING DIAGRAMS

8.3.2 DMX512-A Recommended Field Wiring

Liberty 24-2P-485 (Non-Plenum), 24 AWG, 2 pair dual 120 ohm, 11.2 pf/ft low capacitance (Wago, XLR and PHX connectors)
Liberty 24-2P-P485 (Plenum), 24 AWG, 2 pair dual 120 ohm, 11.2 pf/ft low capacitance (XLR and PHX connectors)
Belden #9842 (Non-Plenum), 24 AWG, 2 pair dual shielded 120 ohm, 12.8 pf/ft low capacitance (XLR and PHX connectors)
Belden #89842 (Plenum), 24 AWG, 2 pair dual shielded 120 ohm, 12.8 pf/ft low capacitance (XLR and PHX connectors)

Please refer to wire manufacturer's lighting catalog for and/equals as required by code.

Category Wire or Equal

The Entertainment Services and Technology Association (ESTA) does not define a maximum run length for DMX over Cat5 since many factors will affect the maximum run length, such as number of devices, number of splices in the cable, the strength of the DMX transmitter(s), if Remote Device Management (RDM) is being used, and sources of interference. ESTA does state (again, in ANSI E1.21-2):

"A properly selected and installed DMX512 cable should provide acceptable signal strength for runs of 300m (1000ft). Please note that the technical requirements, such as run-length and topology for other networking technologies, such as Ethernet, should be considered if using the installed cable for another networking technology in the future is anticipated."

Cat5 or equivalent is not preferred as a portable cable since it is not as rugged as other DMX cables. Male RJ45 connectors are especially prone to breakage over repeated re-connections.

LUMENETIX RECOMMENDATION:

CAT 5E -150 FEET
CRESTRON
DM-CBL-8G-NP
DM-CBL-8G-P

CAT 7- 330 FEET
CRESTRON
DM-CBL-ULTRA-NP
DM-CBL-ULTRA-P

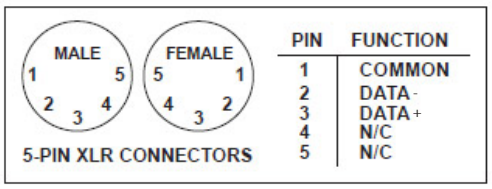
DMX512-A Recommended Field Connectors (or Equal)

WAGO 221
PHOENIX CONTACT
XLR NEUTRIK
CRESTRON
RJ45 DM -8G-CONN
RJ45 IDC DM-CONN

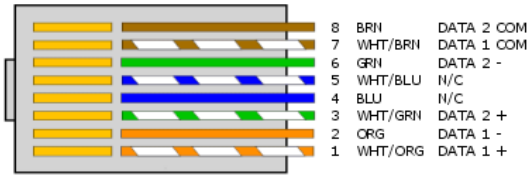
DMX512-A Wiring Connections

Signal	Description	Pin Colors (4-Pair Cable)	Pin Colors (2-Pair Cable)	3-pin XLR connector	5-Pin XLR connector	5-Pin PHX connector
Signal Common		White/Brown and Brown	White/Blue and Blue	1	1	1
Data (-)	Primary Data Link	Orange	Orange	2	2	2
Data (+)	Primary Data Link	White/Orange	White/Orange	3	3	3
Data2 (-), or not used	Optional Secondary Data Link				4	4
Data2 (+), or not used	Optional Secondary Data Link				5	5

XLR Connectors (5-Pin)

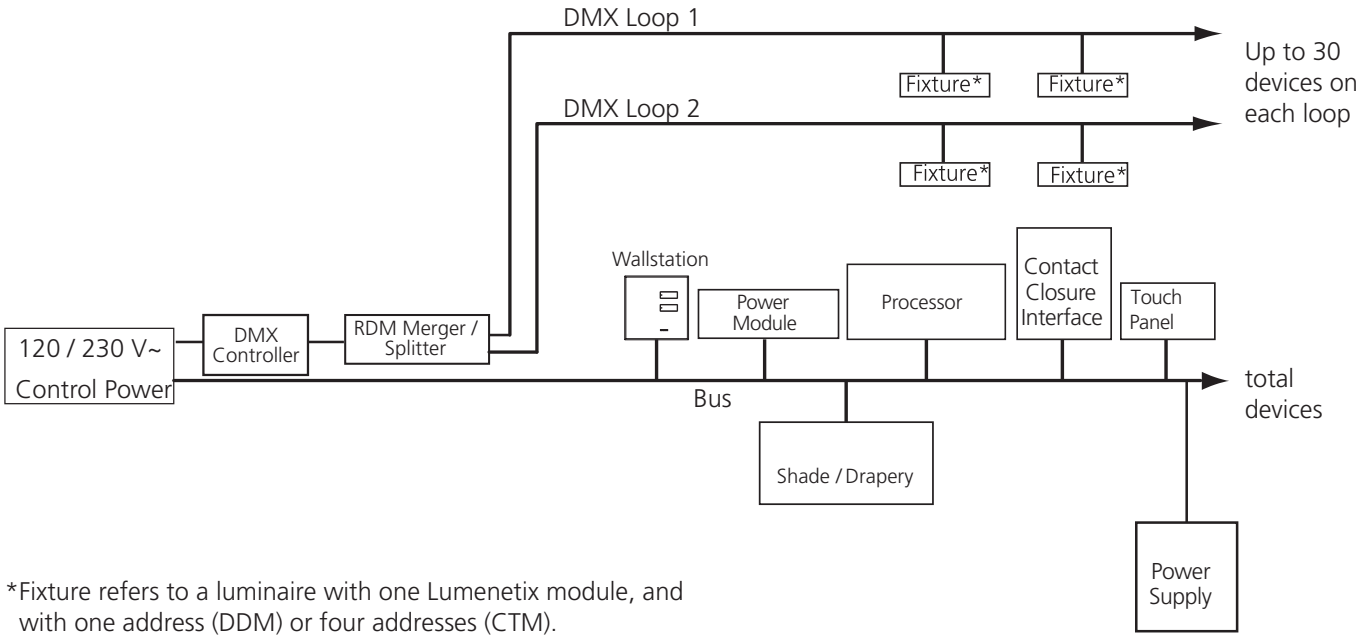


RJ-45 Connector Pin-Out (T568B)



8 WIRING DIAGRAMS

8.3.3 DMX512-A Controller Example



*Fixture refers to a luminaire with one Lumenetix module, and with one address (DDM) or four addresses (CTM).

DMX512-A Drain Wire Connections

Drain wire connections are required as follows.

Shielding

To add another level of protection from electromagnetic noise, a grounded shield is added over the twisted pair wires. When this is enclosed in a protective jacket, to avoid ground loops and electromagnetic contamination of the ground system, all control ground wiring, including cable shields and drain wires, should be treated like sensitive current-carrying conductors. All control ground wires should be insulated (not bare) and the same wiring practices should be observed with ground wires as with other sensitive signals. Care must also be taken when designing control wiring to ensure that each shield is connected to only a single ground point. You should establish this point at a central location, like a control panel or cabinet, and avoid all connection to grounds in the field. A control ground is sometimes referred to as an isolated ground (an oxymoron) for this reason, but the term single-point ground is more accurate.

Method-1

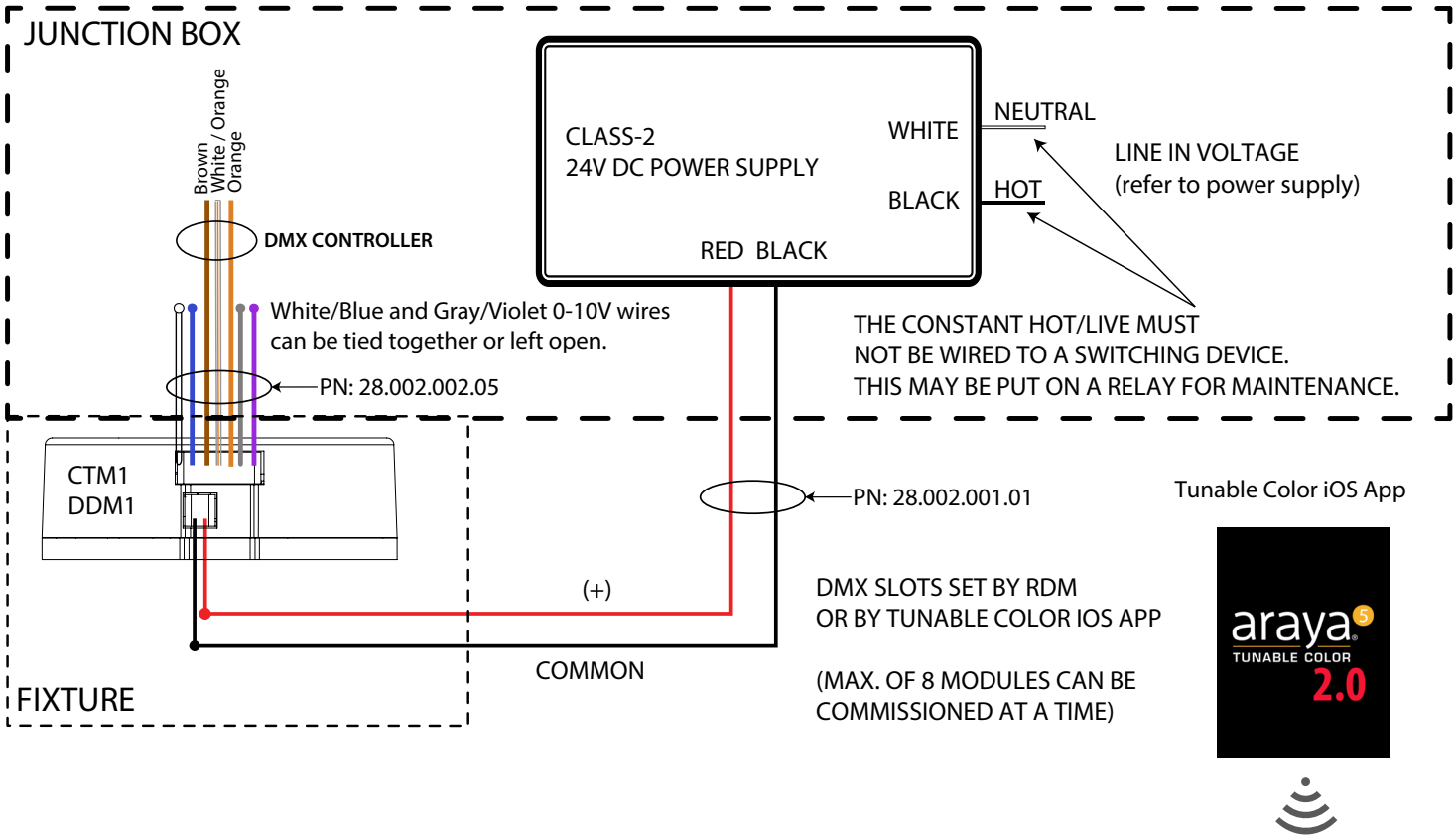
A typical two-pair shielded cable can be prepared for termination to the terminals with the drain wire cut off. This is usually done at the field end of the cable where no shield grounding is desired. You will then use insulating tape or heat-shrink tubing to protect the cable from contamination and to prevent accidental grounding of the shield or drain wire. An accidental ground at this point would almost certainly create an undesirable ground loop.

Method-2

A typical two-pair shielded cable can be prepared for termination to the terminals with the drain wire cut off. The drain wire, which is an uninsulated conductor, is sleeved with a insulating tubing to prevent accidental grounding. The crimp-on lug is valuable in this instance to retain the tubing. Insulating tape or heat-shrink tubing is again used to protect the cable from contamination and to prevent accidental grounding, since any accidental connection between the drain wire and a chassis, frame, or enclosure would almost certainly create a ground loop.

8 WIRING DIAGRAMS

8.3.4 DMX512-A-RDM Control



Lead Color and Input

Lead Color	Input
Red	Power 24V DC (+)
Black	Power Common (-)
Violet	0-10V Dimming (+); Left Open
Gray	Signal Common for 0-10V Dimming (-); Left Open
Blue	0-10V Color (+); Left Open
White	Signal Common for 0-10V Color (-); Left Open
Orange (TOP / BOTTOM)	Data (-) IN / OUT
White with Orange Stripe (TOP / BOTTOM)	Data (+) IN / OUT
Brown (TOP / BOTTOM)	Digital Common IN / OUT

Lumenetix part #s:
28.002.001.01 (2-wire power cable assembly)
28.002.002.05 (7-wire control cable assembly)

Notes:

1. The DMX channels can be set by RDM or by using the araya[5] Tunable Color iOS App.
2. Maximum of 8 modules can be commissioned at a time using the app.
3. Bluetooth operation should be used only for commissioning modules, NOT controlling them.
4. The DMX control system should first be powered OFF, and only modules that are connected to the DMX system should be powered on.
5. If more than one line of DMX is needed, then a DMX Splitter must be used to create multiple independent branches of a DMX signal and/or to extend the usable distance of each branch. Each of the splitter's 4, 6, 8, or 16 output ports generates an independently protected DMX signal.
6. See araya[5] Tunable Color Instruction Manual for more details.

8 WIRING DIAGRAMS

8.4 Lutron® EcoSystem Protocol

EcoSystem technology is a control method for LEDs that provides addressing of individual fixtures and status feedback. This makes it easy to digitally assign one or many fixtures without complicated wiring. This opens up an entire suite of energy-saving, system-monitoring and system-control schemes where the design, setup and rezoning are all done within software, making the electrical and control design simple.

The araya5® modules attached to different interface boards can be controlled independently or assigned to a single group by the EcoSystem controller.

The EcoSystem control is responsible for saving any configuration settings. Once an interface board is assigned a pair of addresses, assigned addresses are saved in NVRAM. During the EcoSystem discovery process, the user pairs the desired dimming control in the controller to the Dim channel address in the interface board. The same applies for the CCT channel.

- 1 pair 16AWG Eco Loop, 900 feet (**field wiring**).
- Maximum of 64 addresses on each loop.

EcoSystem Control Systems (recommended list)*

Quantum System

HomeWorks QS

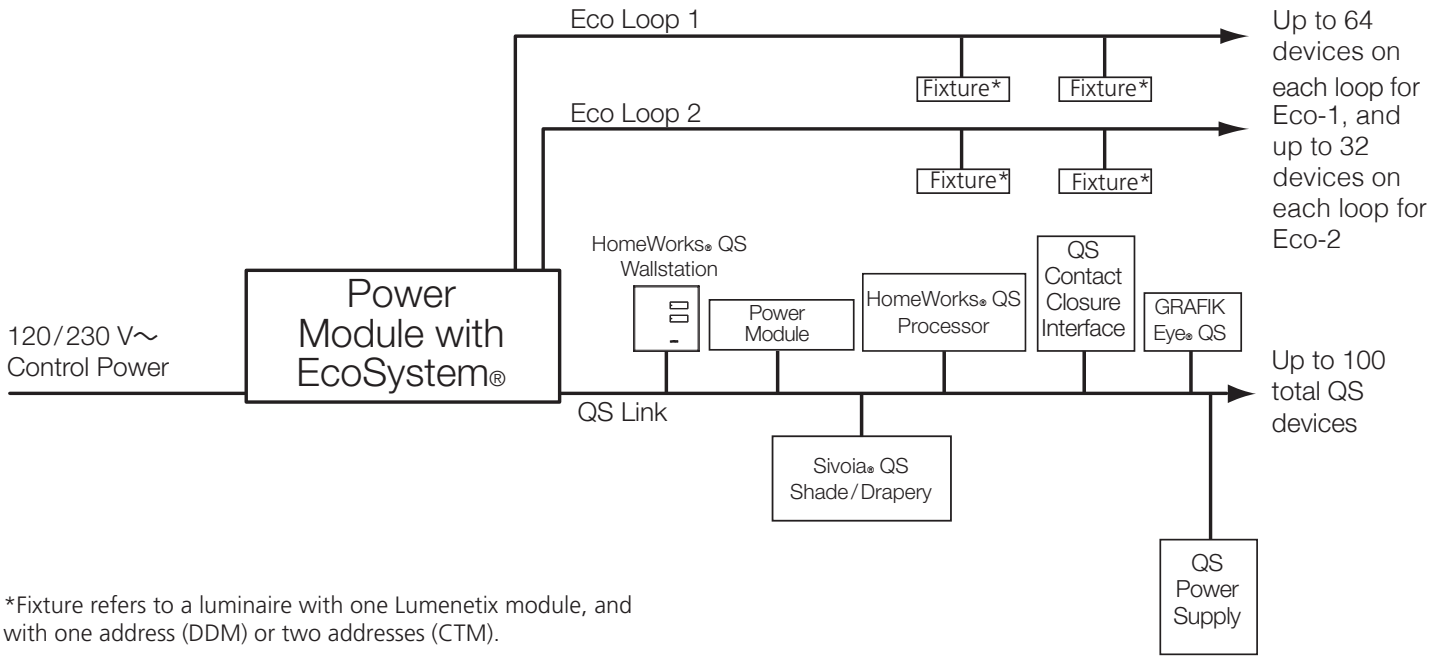
Grafik Eye QS Control Unit with EcoSystem

EnergiSavr Node with EcoSystem

Power Module with EcoSystem

*Recommendations are subject to change. Consult your Lumenetix representative for the most updated list.

Lutron EcoSystem Controller Example



*Fixture refers to a luminaire with one Lumenetix module, and with one address (DDM) or two addresses (CTM).

8 WIRING DIAGRAMS

8.4.1 Lutron® EcoSystem Field Wiring

- EcoSystem Digital Loop can be wired as Mains voltage or IEC PELV/NECR Class 2 for maximum wiring flexibility..
- The Loop is polarity insensitive and can be wired in any topology..
- Consult all national and local electrical codes for separation requirements..

Wire Gauge	Maximum EcoSystem-Compliant Loop Wire Length
4.0 mm² (12 AWG)	671 m (2200 ft)
2.5 mm² (14 AWG)	427 m (1400 ft)
1.5 mm² (16 AWG)	275 m (900 ft)
1.0 mm² (18 AWG)	175 m (570 ft)

Drain Wire Connections

Drain wire connections are required as follows.

Shielding

To add another level of protection from electromagnetic noise, a grounded shield is added over the twisted pair wires. When this is enclosed in a protective jacket, to avoid ground loops and electromagnetic contamination of the ground system, all control ground wiring, including cable shields and drain wires, should be treated like sensitive current-carrying conductors. All control ground wires should be insulated (not bare) and the same wiring practices should be observed with ground wires as with other sensitive signals. Care must also be taken when designing control wiring to ensure that each shield is connected to only a single ground point. You should establish this point at a central location, like a control panel or cabinet, and avoid all connection to grounds in the field. A control ground is sometimes referred to as an isolated ground (an oxymoron) for this reason, but the term single-point ground is more accurate.

Method-1

A typical two-pair shielded cable can be prepared for termination to the terminals with the drain wire cut off. This is usually done at the field end of the cable where no shield grounding is desired. You will then use insulating tape or heat-shrink tubing to protect the cable from contamination and to prevent accidental grounding of the shield or drain wire. An accidental ground at this point would almost certainly create an undesirable ground loop.

Method-2

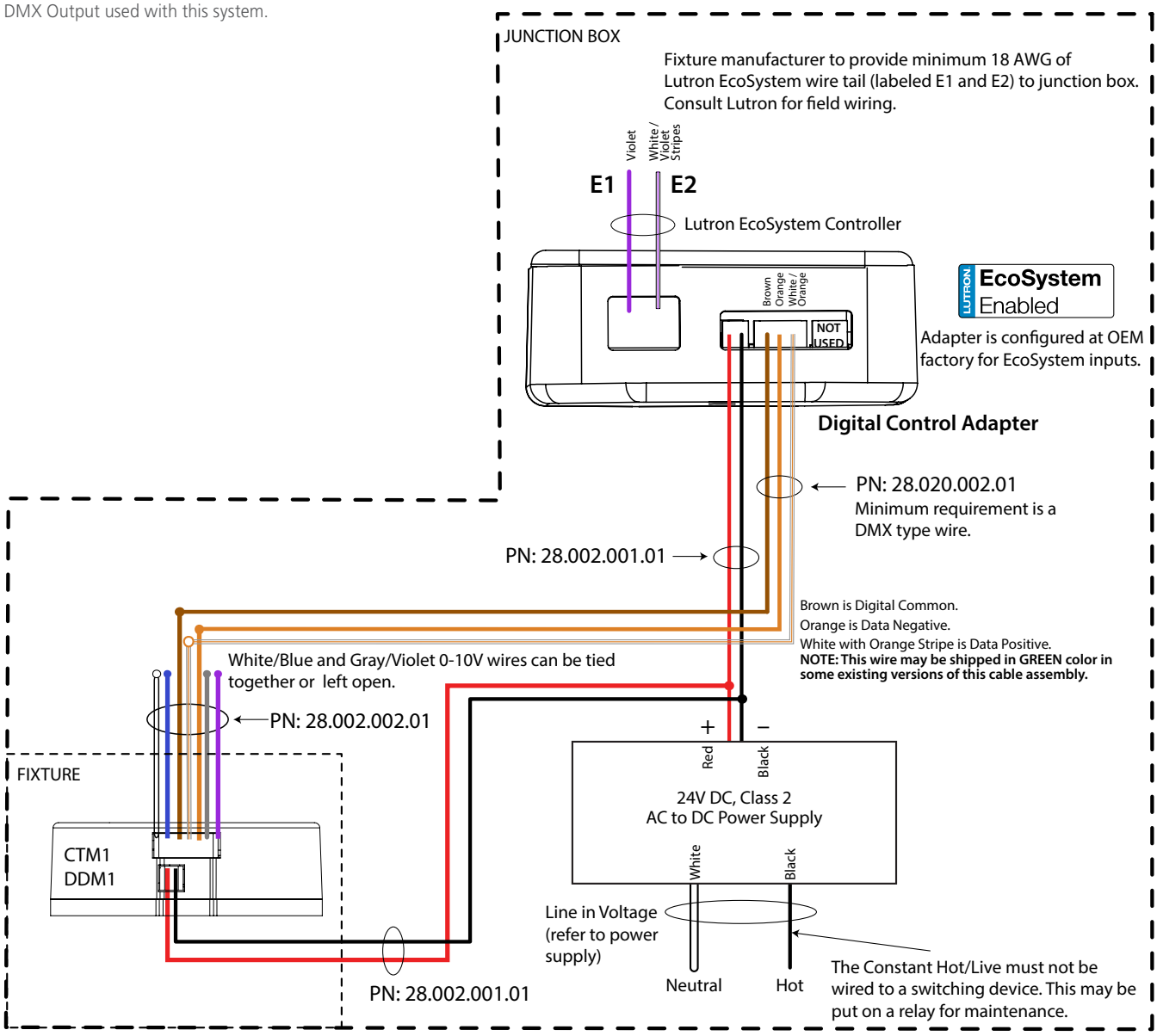
A typical two-pair shielded cable can be prepared for termination to the terminals with the drain wire cut off. The drain wire, which is an uninsulated conductor, is sleeved with a insulating tubing to prevent accidental grounding. The crimp-on lug is valuable in this instance to retain the tubing. Insulating tape or heat-shrink tubing is again used to protect the cable from contamination and to prevent accidental grounding, since any accidental connection between the drain wire and a chassis, frame, or enclosure would almost certainly create a ground loop.

8 WIRING DIAGRAMS

8.4.2 Lutron® EcoSystem Input; DCA-2 (24V DC) Digital Control Adapter

Notes:

1. 24V power (red/black) is Class-2 rated.
2. Module Data +/- (white with orange stripe/orange) to araya5® modules is Class-2 rated.
3. Adapter is configured at factory for EcoSystem inputs. The araya5 Tunable Color 2.0 iOS App should be turned on, and the DMX channels should be set to 2, 4, 6, 8.
4. DCA may be installed in the luminaire only.
5. One EcoSystem address (1 channel for warm-dim) per DDM module/DCA kit.
6. Two EcoSystem addresses (1 channel for CCT control and 1 channel for dimming control) per CTM module/DCA kit.
7. EcoSystem Channel 1 is always Intensity control. EcoSystem Channel 2 is always CCT control.
8. In the EcoSystem programming mode, EcoSystem Channel 1 controls the intensity from 100%-1%. EcoSystem Channel 2 controls the CCT range from 1650 - 8000K.
9. CAUTION: The power cable should ONLY be plugged into the 2-pin power receptacle provided. Insertion of the cable into any other slot will damage the Digital Control Adapter unit.
10. DMX Output used with this system.



9 OPERATION GUIDE

The araya[5] Color Tuning Modules CTM 109, CTM 112, CTM 119 and CTM 119NR utilize standard 0-10V building controls and/or a wireless araya[5] Tunable Color iOS app for controlling on-Planckian correlated color temperatures (CCT), dimming values, off-Planckian color points (color tinting) using the Saturation & Hue feature, and commissioning and activating Scene presets. This document describes how to control the CTM utilizing 0-10V controls, the iOS Bluetooth app or a combination of the two.

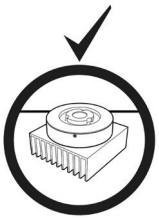
araya[5] Tunable Color iOS App. The araya[5] Bluetooth app wirelessly controls the CTM. The app is primarily intended to commission the CTM after installation. A MAXIMUM OF 8 MODULES CAN BE CONTROLLED AT A TIME. Each CTM has a unique address and the operator uses the app to select the desired CTM, turn power on/off and then set CCT, Dim, Saturation & Hue, and set Scene Presets. Consult the araya[5] Tunable Color instruction manual for detailed instructions.

0-10V Control of CCT. The CTM has 0-10V blue (+) and white (ground) control wire pairs to control CCT (instead of iOS app control of CCT).

0-10V Control of Stored Scenes. The iOS app can set up to 5 Scene Presets which are recalled using a wired 0-10V controller. A scene is comprised of a CCT, Dim, Saturation & Hue level. Individual preset scenes also can be modified and activated with the iOS app.

DMX Channel Configuration. The CTM1 modules are provided with on board DMX512-A-RDM, with DMX slots set by RDM or via wireless araya[5] Tunable Color 2.0 iOS app.

On-Off Control. The CTM may be turned on/off by switching the input power from the 24V supply. To store the settings, the lamp needs to remain on for at least 45 seconds after the CTM is initially set using the iOS app. When Scene Presets are activated using the app, the settings are stored immediately and no wait time is needed. The lamp may also be turned on/off using the app without switching the power supply, but a power draw of about 1W will remain.



For long term reliable operation, proper heat sinking is critical.

The CTM diffuser is fragile. Avoid touching the diffuser during handling and assembly.

Do not rest or operate the CTM face down against a table or other solid surface.

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