

vizulo



MICRO
MARTIN



- | **Architectural & Landscape**
- | **Sports Lighting**
- | **Large Outdoor Industrial Area**
- | **Agricultural Area**

- | **Ventilation cable gland**
Combines pressure equalization and cable gland in a single unit. It ensures high air flow rates as well as high water protection capacity
- | **Glass**
Flat glass. Glass is fixed to die-cast aluminium frame with screws
- | **LED module**
High quality LED's with optimal thermal resistance and energy consumption characteristic, for high lumen output and long expected life time. Color temperature available: 3000K, 4000K (5000K, 5700K available on customer request)
- | **Intelligent light control system**
Power line or radio frequency
- | **Protection**
IP66 for the complete luminaire

- | **Module temperature control**
The LED driver will start reducing the light output when the LED's approach critical temperature. The temperature is measured via a sensor placed on the PCB (function available on customer request)
- | **Body**
Die-cast aluminium
- | **Lighting protection**
Built-in surge protection starting from 6 kV till 10 kV
- | **Light regulation**
MICRO MARTIN drivers offer integrated midnight dimming and network-controlled 1-10V and DALI protocols
- | **Impact resistance**
IK08 (Vandal protected) for the complete luminaire

I Traffic roads

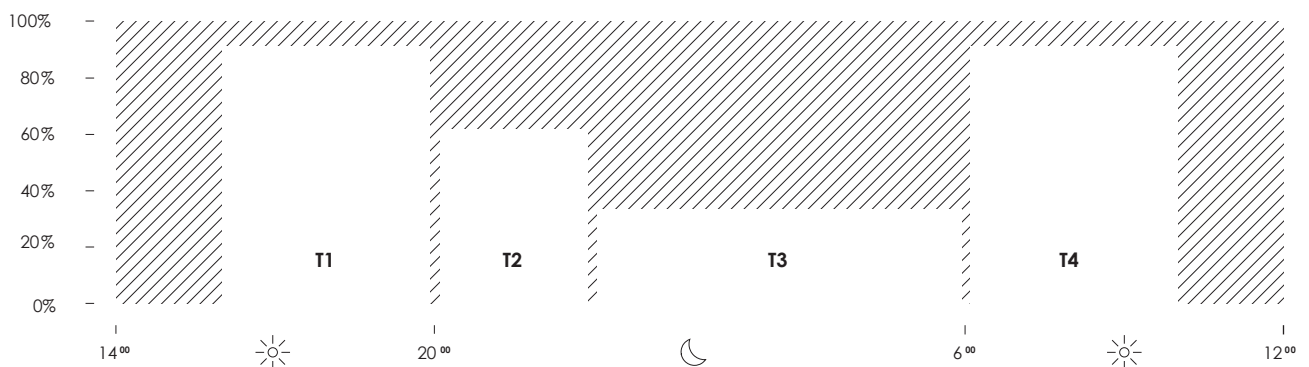
Pedestrian Roads

Residential Street/Area

City Centre

I Midnight dimming

Midnight dimming provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on / off times.





With fins



Smooth

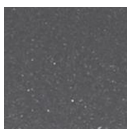
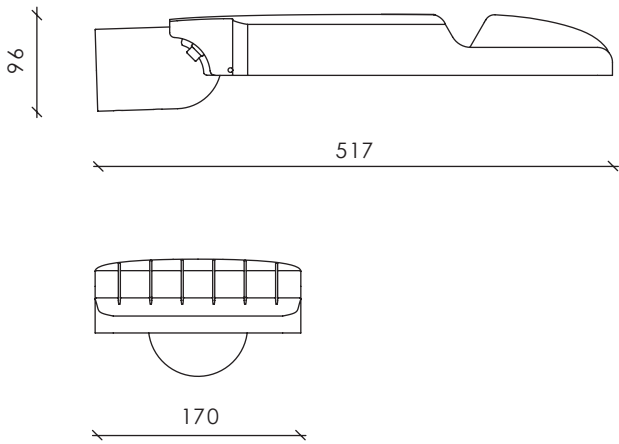


Tool-less



Tool-less | Smooth

| **With fins**



DB703

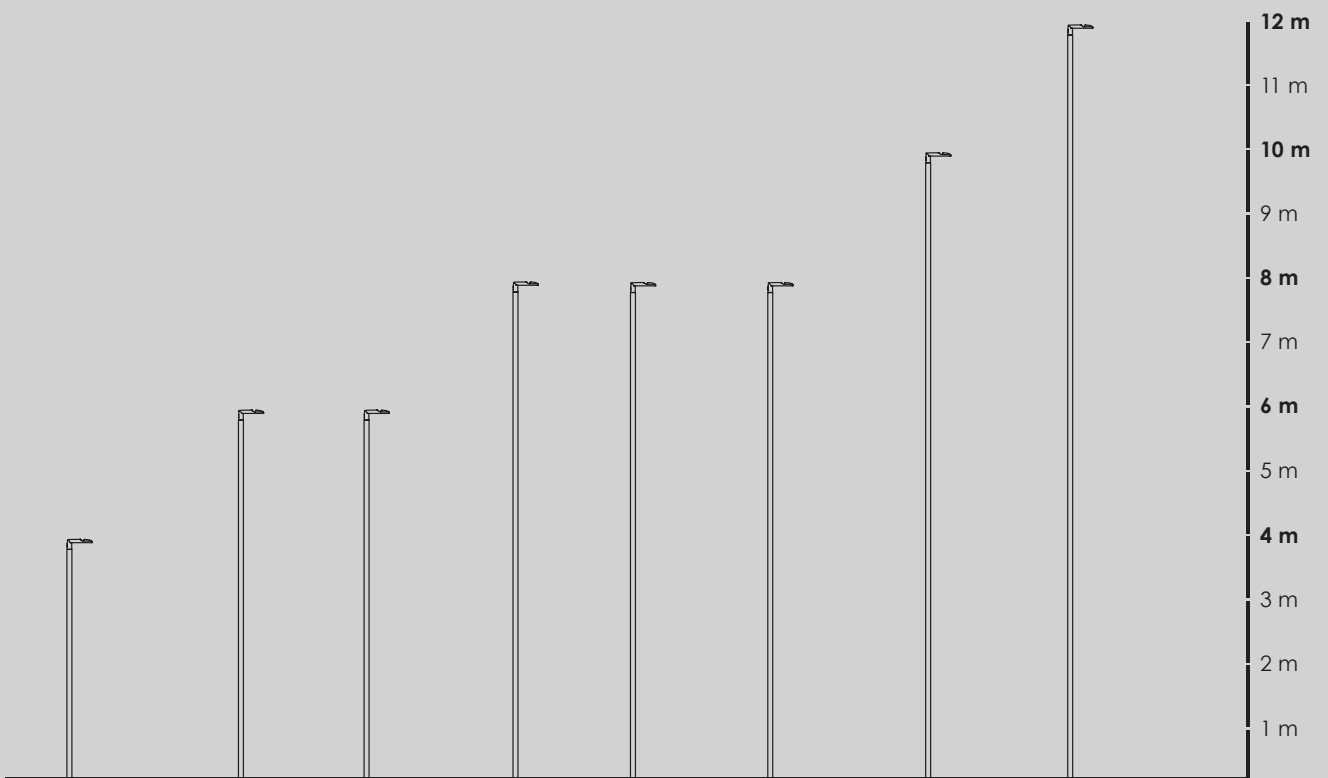


RAL9006

OTHER COLORS AVAILABLE ON REQUEST

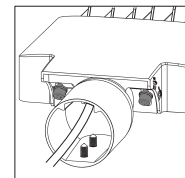
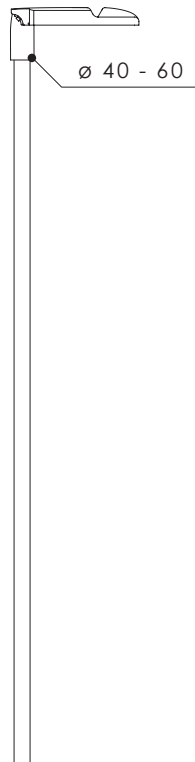
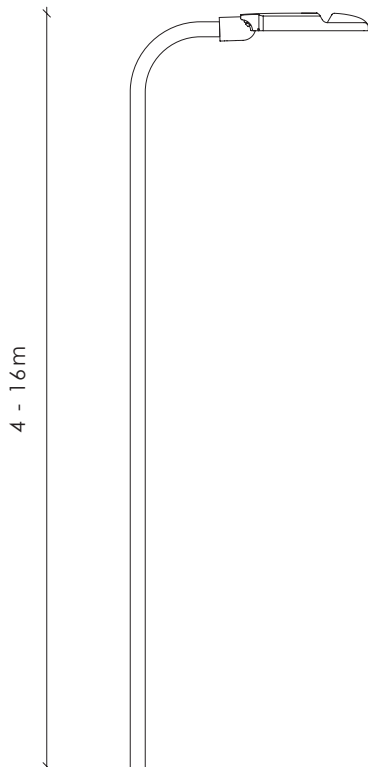
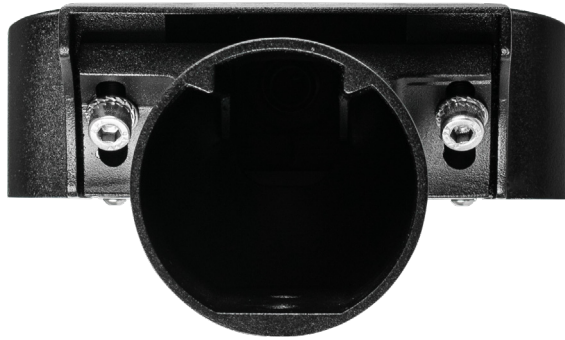


| Pole height proposition

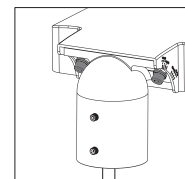


Pole height	4m	6 - 8 m	8 - 12 m
Standard modules	18 W	37 W	
High-density modules		37 W	75 W
ECO	18 W	37 W	75 W

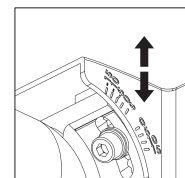
| Console



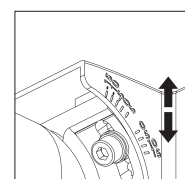
Horizontal entry



Vertical entry



$\leq -15 \dots 5$



$\leq 0 \dots 15$

Technical information

Standard modules

V 220 - 240
Hz 50 - 60
W 8 - 37
lm 914 - 4324
lm/W 110 - 125
K 3000 / 4000 ¹
°C -40 to +50
CRI >70 / >80 ²

1-10V; DALI; Midnight dimming
 Radio frequency ³
 Body: Die-cast aluminum
 Spigot: ø 40-60, with accessories ø 32; ø 76
 Neto weight: 3,7 - 3,75 kg
 3; 6; 10 kV (optional) ⁴
 Warranty 5 years
 100 000 h (L95B10C10) ⁵
 150 000 h (L90B10C10) ^{5,6}
 Max.wind load area, SCd, m²: 0,036



4000K

	8			16		
Number of LED's						
Nominal current, mA	350	520	700	350	520	700
Power, W	10	15	19	19	27	37
Luminous Flux, lm	1162	1687	2137	2360	3333	4450
Efficacy, lm/W	116	113	113	124	124	120
Power factor, PF	0,81	0,85	0,9	0,9	0,95	0,97

Luminaire efficacy

3000 K	8 - 37 W	884 - 4313 lm	102 - 124 lm/W
4000 K	8 - 37 W	914 - 4450 lm	119 - 137 lm/W
5000 K	8 - 37 W	914 - 4450 lm	119 - 137 lm/W

¹ 5000; 5700 K available on request

² Luminaires with color rendering index (CRI): Ra >90 on request

³ Optional. Available only with DALI ; 1 - 10 V

⁴ 10 kV (L-N; L/N-PE) surge protection device available on request

⁵ at Ta=25°, this value is only informative and may change according to selected article

⁶ 150 000 h for LED's only, drivers 100 000 h

Technical information

High density modules

V 220 - 240
Hz 50 - 60
W 10 - 75
 10 - 50 ⁽¹⁾
lm 1221 - 9130
lm/W 120 - 133
K 3000 / 4000 ⁽²⁾
°C -40 to +50
CRI >70 / >80 ⁽³⁾

1-10V; DALI; Midnight dimming
 Radio frequency ⁽⁴⁾
 Body: Die-cast aluminum
 Spigot: ø 40-60, with accessories ø 32; ø 76
 Neto weight: 3,7 - 3,75 kg
 3; 6; 10 kV (optional) ⁽⁵⁾
 Warranty 5 years
 100 000 h (L95B10C10) ⁽⁶⁾
 150 000 h (L90B10C10) ^(6,7)
 Max.wind load area, SCd, m²: 0,036



4000K

	16			32		
Number of LED's						
Nominal current, mA	350	500	740	350	500	760
Power, W	19	26	37	35	50	75
Luminous Flux, lm	2434	3283	4462	4654	6458	9130
Efficacy, lm/W	128	126	120	133	129	122
Power factor, PF	0,88	0,94	0,97	0,83	0,93	0,98

Luminaire efficacy

3000 K	10 - 75 W	1182 - 8835 lm	107 - 128 lm/W
4000 K	10 - 75 W	1221 - 9130 lm	124 - 140 lm/W
5000 K	10 - 75 W	1221 - 9130 lm	134 - 140 lm/W

1 Micro Martin Smooth

2 5000; 5700 K available on request

3 Luminaires with color rendering index (CRI): Ra >90 on request

4 Optional. Available only with DALI ; 1 - 10 V

5 10 kV (L-N; L/N-PE) surge protection device available on request

6 at Ta=25°, this value is only informative and may change according to selected article

7 150 000 h for LED's only, drivers 100 000 h

Technical information
ECO

V 220 - 240
Hz 50 - 60
W 5 - 75
 5 - 50 ⁽¹⁾
lm 559 - 8832
lm/W 1217 - 142
K 3000 / 4000 ⁽²⁾
°C -40 to +50
CRI >70 ⁽³⁾

1-10V; DALI; Midnight dimming
 Radio frequency / Power line ⁽⁴⁾
 Body: Die-cast aluminum
 Spigot: ø 40-60, with accessories ø 32; ø 76
 Neto weight: 3,7 - 3,75 kg
 3; 6; 10 kV (optional) ⁽⁵⁾
 Warranty 5 years
 80 000 h up to 100 000 h (L80B10C10) ⁽⁶⁾
 100 000 h (L70B10C10) ⁽⁶⁾
 Max.wind load area, SCd, m²: 0,036



4000K

	4			8			16		
Number of LED's									
Nominal current, mA	140	520	700	250	500	700	250	500	700
Power, W	5	15	20	14	27	38	27	52	75
Luminous Flux, lm*	559	1801	2307	1934	3483	4558	3842	6775	8832
Efficacy, lm/W	110	120	115	139	129	120	142	130	118
Power factor, PF	0,69	0,9	0,95	0,91	0,94	0,98	0,71	0,94	0,97

1 Micro Martin Smooth

2 5000; 5700 K available on request

3 Luminaries with color rendering index (CRI): Ra > 80 is available according to customers special orders

4 Optional. Available only with DALI ; 1 - 10 V

5 10 kV (L-N; L/N-PE) surge protection device available on request

6 at Ta=25°C, this value is only informative and may change according to selected article

| MCB / Inrush current table

Tridonic LED driver

Standard/High density	In-rush current (peak/duration)	B10A	B16A	B20A	B25A	C10A	C16A	C20A	C25A
MRU 8-16 LED, 8-33 W	36 A (195 μ s)	10	16	21	28	16	21	35	44
MRU 16-28 LED, 19-60 W	32 A (267 μ s)	7	12	15	19	11	20	25	30
MRU 32 LED, 28-75 W	32 A (267 μ s)	7	12	15	19	11	20	25	30

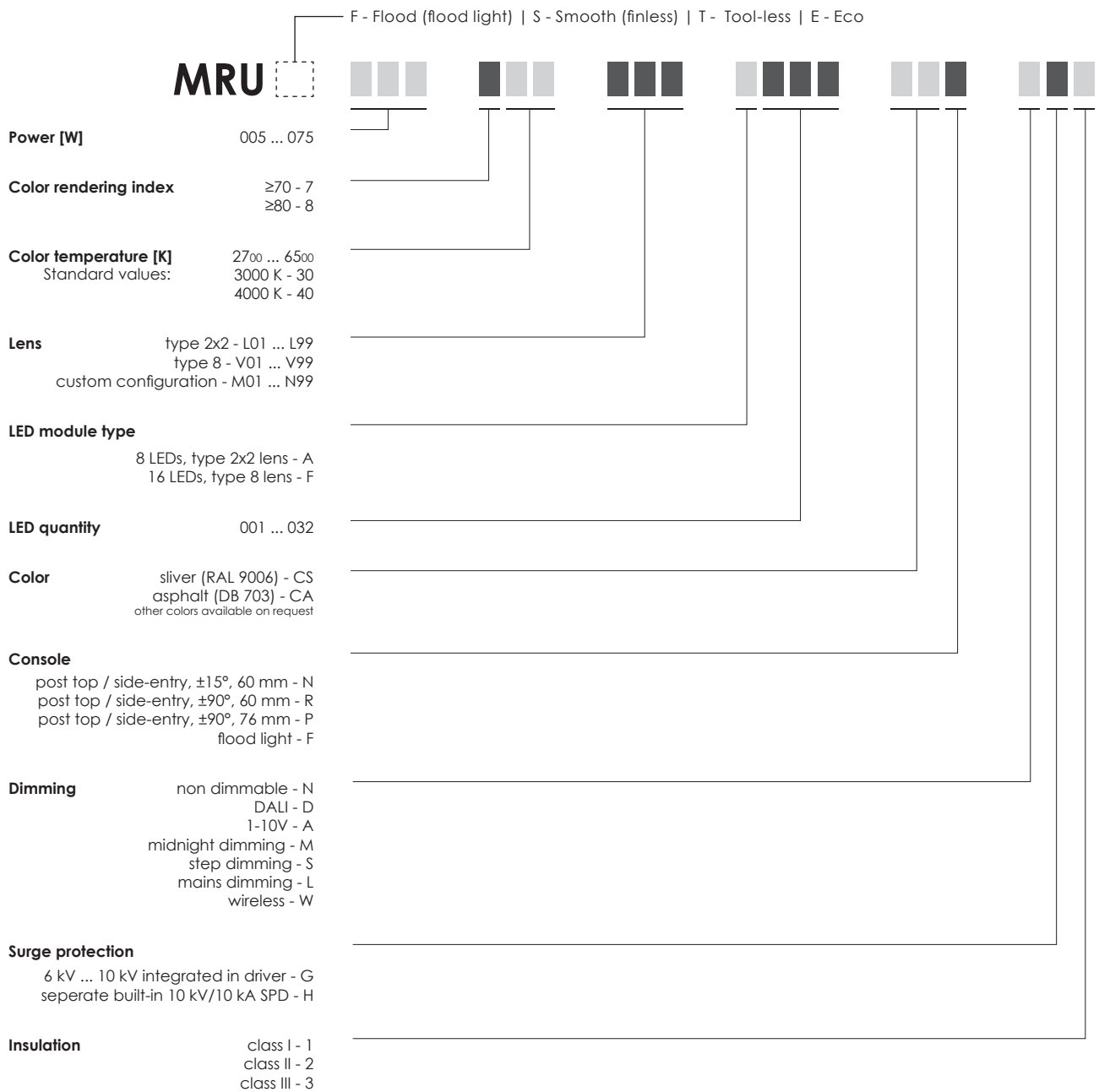
Eco		B10A	B16A	B20A	B25A	C10A	C16A	C20A	C25A
MRUE 4-12 LED, 8-33 W	36 A (195 μ s)	10	16	21	28	16	21	35	44
MRUE 6-12 LED, 17-60 W	32 A (267 μ s)	7	12	15	19	11	20	25	30
MRUE 12-16 LED, 22-75 W	37 A (287 μ s)	7	12	15	19	11	20	25	30

Osram LED driver

Standard/High density	In-rush current (peak/duration)	B10A	B16A	B20A	B25A	C10A	C16A	C20A	C25A
MRU 8-16 LED, 8-40 W	45 A (180 μ s)	10	17	21	28	16	27	33	44
MRU 20-32 LED, 18-66 W	53 A (200 μ s)	7	12	15	20	11	19	24	32
MRU 32 LED, 67-75 W	57 A (210 μ s)	7	12	15	20	11	19	24	32

Eco		B10A	B16A	B20A	B25A	C10A	C16A	C20A	C25A
MRUE 4-8 LED, 11-41 W	45 A (180 μ s)	10	17	21	28	16	27	33	44
MRUE 6-16 LED, 16-66 W	53 A (200 μ s)	7	12	15	20	11	19	24	32
MRUE 16 LED, 67-75 W	57 A (210 μ s)	7	12	15	20	11	19	24	32

I Model name principles



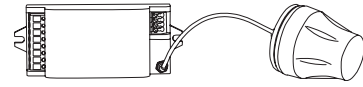
EXAMPLE MRUE 005 730 L99 A001 CSN NG1

Accessories

Citintelly Luminaire controller

Luminaire Controller is wireless mesh-networking device that uses 868 MHz for communication with Segment Controller and other Luminaire Controllers. It is delivered in various configurations to meet the needs of your applications.

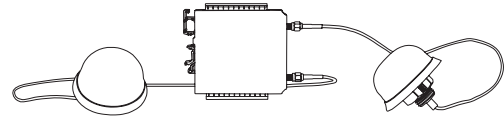
Art. 70010001 | Luminaire controller, 2 relay
Art. 70010002 | Luminaire controller, 1 relay



Citintelly Segment controller

Segment Controller receives commands from Citintelly server via GSM and transmits tasks to Luminaire Controller via radio frequency communication.

Art. 70000101

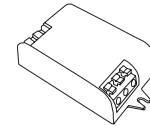


Citintelly Surge Protection device

Surge Protection device offers protection against lighting surges;
Voltage Protection level up (L-N) $\leq 1,5$ kV
Voltage Protection level up (L/N-PE) $\leq 1,8$ kV

$U_{oc} = 10$ kV
 $I_{max} = 10$ kA
 $I_{nom} = 5$ kA

Art. 70002001

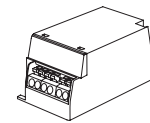


Surge Protection device

Surge Protection device offers protection against lighting surges;
Voltage Protection level up (L-N) $\leq 1,5$ kV
Voltage Protection level up (L/N-PE) $\leq 2,0$ kV

$U_{oc} = 10$ kV
 $I_{max} = 10$ kA
 $I_{nom} = 5$ kA

Art. 70000203



Radio Frequency Antenna

Heavy duty IP67 enclosure
Mounted in cabinet or luminaire body with 14 mm screw
SMA connector

Art. 70000108



NEMA Socket

2213362-3, 5 pin NEMA socket 105°C wires Art. 70000362
2213362-4, 7 pin NEMA socket 105°C wires Art. 70000333



Dummy Link for NEMA Socket

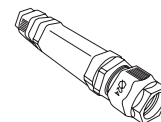
Art. 70000113



Connector

IP66 rated connector offers easy installation of luminaires.
3 wire cable connector

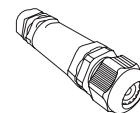
Art. 70000313



Connector

IP66 rated connector offers easy installation of luminaires.
5 wire cable connector

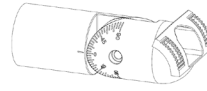
Art. 70000315



Adjustable Console ±90°

Spigot size 60 mm

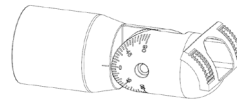
Art. 70055005



Adjustable Console ±90°

Spigot size 76 mm

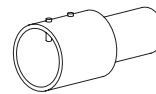
Art. 70055006



Console adapter

Spigot size 60 - 76 mm

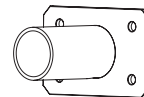
Art.70044002



Wall mounting bracket

Spigot size 40 - 60 mm

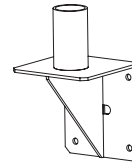
Art.70044001



Wall mounting bracket

Vertical

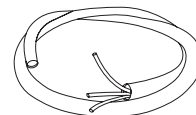
Art.70044004



Pre-installed cable sets

Pre-installed cables sets in the luminaire
Diameter of the cable:

- 3 x 1,5 mm - 0,5 m length Art. 70000319
- 3 x 1,5 mm - 5 m length Art. 70000320
- 3 x 1,5 mm - 6 m length Art. 70000321
- 3 x 1,5 mm - 8 m length Art. 70000322
- 3 x 1,5 mm - 10 m length Art. 70000323
- 3 x 1,5 mm - 12 m length Art. 70000324
- 3 x 1,5 mm - 18 m length Art. 70000325



Pre-installed cables sets in the luminaire
Diameter of the cable:

- 5 x 1,5 mm - 0,5 m length Art. 70000305
- 5 x 1,5 mm - 5 m length Art. 70000316
- 5 x 1,5 mm - 6 m length Art. 70000317
- 5 x 1,5 mm - 8 m length Art. 70000318
- 5 x 1,5 mm - 10 m length Art. 70000306
- 5 x 1,5 mm - 12 m length Art. 70000307
- 5 x 1,5 mm - 18 m length Art. 70000308



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