

Landlord External Lighting – Technical Submittal

Project: Rochdale Riverside – Hampton by Hilton
Project No: MC1165
TSM No: RR2-AME-XX-XX-TS-E-0006
Revision: C01
Date: 10.02.23
Approval Period: -
Notes: To be read in conjunction with Ameon layout drawings.

Revision 1 Notes:

Changes Highlighted, Site Calculation Added, Equipment Schedule Added,
Recessed Canopy Light, Added, Column Details Added

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Technical drawings / Manufacturers Drawings:

For locations and positions of luminaires please refer to Ameen drawings:

- RR2-AME-B2-XX-DR-N-50001 Site Wide External Services Layout.
- 60 Series coordinated services

Final setting out and coordination of luminaires and finishes to be coordinated by the architect.

Manufacturers dimensions appended to this document.

All lamps to be of 4000k colour temperature

Full description of controls and sequence of operations:

External luminaires are to be controlled by a 2 zone timeclock and photocell mounted on a northerly facing facade for each building. Building mounted lighting is controlled from each building's independent external lighting control system. Site wide column mounted lighting is controlled by dedicated photocell / timeclock arrangement.

Manufacturers material and workmanship specifications including paint finish and RAL colour:

Refer to data sheets within this technical submission.

Performance schedules:

Luminaire selections and external lighting levels are appended to this document

From the TACE specification: lighting will be designed to incorporate energy efficient luminaires and an automatic lighting control system utilising daylight sensors and time clock control to ensure energy efficient operation of the lighting.

External lighting lux levels to be designed in accordance with CIBSE lux levels.

Design achieves requirements outlined by Secure By Design and the requirements highlighted in the projects CIS Rev B.

Manufacturers Installation:

N/A

Schedule							
Symbol	Label	Quantity	Manufacturer	Catalogue Number	Description	Number Lamps	Lumens Per Lamp
	A	8	Lighting Project Solutions	PN15w/40cpw/A	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, IP54, IK15	1	1746
	A2	9	Lighting Project Solutions	PN15w/40cpw/A	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, IP54, IK15	1	1746
	A2/E	10	Lighting Project Solutions	PN15w/40cpw/A	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, IP54, IK15	1	1746
	AE	12	Lighting Project Solutions	PN15w/40cpw/A	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, IP54, IK15	1	1746
	B	0	Lighting Project Solutions	WUE 040 740 L22 A4000	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, IP54, IK15	1	5290
	C	5	Lighting Project Solutions	WUE 040 740 L22 A4000	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, IP54, IK15	1	5290
	D	4	Lighting Project Solutions	WUE 038 740 L35 A4000	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, IP54, IK15	1	4313
	D2	1	Lighting Project Solutions	WUE 038 740 L35 A4000	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, IP54, IK15	1	4313
	B2	2	Lighting Project Solutions	WUE 038 740 L35 A4000	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, IP54, IK15	1	4313
	E	1	Lighting Project Solutions	WUE 038 740 L35 A4000	From LED wall luminaires, 15w, 4000K, Patterned optic, finished in Anthracite RAL 7016, IP54, IK15	1	4313
	F	2	Lighting Project Solutions	78 Series	28 Series Downlighter 3.2 660 lumens	1	669

Statistics					
Description	Symbol	Avg	Max	Min	Min/Avg
Plaza 2	+	26 lux	76 lux	3 lux	0.12
Plaza 2 Seating Area	+	29 lux	58 lux	11 lux	0.38
B4 East exit	+	22 lux	26 lux	17 lux	0.77
Block B3	+	29 lux	101 lux	9 lux	0.31
Bin store	+	25 lux	27 lux	21 lux	0.84
Cycle Top / North B3	+	20 lux	40 lux	6 lux	0.30
Disabled Parking	+	33 lux	49 lux	21 lux	0.64
Hilton North/East Side	+	19 lux	46 lux	6 lux	0.32
Hilton Ramp	+	27 lux	40 lux	19 lux	0.70
Hilton Seating Area	+	33 lux	45 lux	15 lux	0.45
North B4	+	22 lux	41 lux	8 lux	0.36
Plaza 1	+	21 lux	39 lux	6 lux	0.29
Plaza 2 Open space	+	25 lux	77 lux	8 lux	0.32
Rear Road	+	23 lux	50 lux	7 lux	0.30
B3 steps	+	22 lux	28 lux	15 lux	0.68
B4 East	+	20 lux	42 lux	5 lux	0.25
B4 South	+	24 lux	41 lux	10 lux	0.42
B4 Step	+	28 lux	33 lux	21 lux	0.75
Hilton South Steps	+	22 lux	26 lux	17 lux	0.77
Hilton Steps	+	51 lux	61 lux	40 lux	0.78
Hilton Canopy	+	44 lux	121 lux	11 lux	0.25



Plan View
Scale - 1 : 299.9999

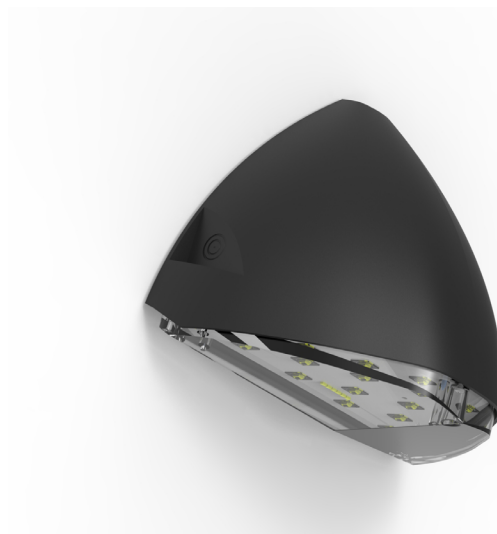
Rochdale Riverside Phase 2



	Label	Manufacturer	Product Code	Product Description	Lumen Per Luminaire	Area Mounted	Dimensions	Windage	Wattage	Distribution	Footprint
	A		FN/8w/4K/pw/A	Finn LED wall luminaire, 8w. 4000K, Pathway Optic. Finished in Anthracite RAL 7016. IP65, IK10	1001	Building Perimeter	264x319x165	n/a	8	Pathway	
	A2		FN/15w/4K/pw/A	Finn LED wall luminaire, 15w. 4000K, Pathway Optic. Finished in Anthracite RAL 7016. IP65, IK10.	1746	Building Perimeter	264x319x165	n/a	15	Pathway	
	AE		FN/8w/4K/pw/A/EM	Finn LED wall luminaire, 8w. 4000K, Pathway Optic. Finished in Anthracite RAL 7016. IP65, IK10 3hr maintained emergency back up	1001	Building Perimeter	264x319x165	n/a	8	Pathway	
	A2/E		FN/8w/4K/pw/A	Finn LED wall luminaire, 15w. 4000K, Pathway Optic. Finished in Anthracite RAL 7016. IP65, IK10. 3hr maintained emergency back up	1746	Building Perimeter	264x319x165	n/a	15	Pathway	
	B2		MRUE 040 740 L22 AA016	TWIN COLUMN MICRO MARTIN STREET AND TERRITORY LUMINAIRE 16 LED 4000K L22 Optic mounted @ 6 metres	5290	Plaza area	517x170x96	0.037m2	40	L22	
	C		MRUE 060 740 L22 AA016	SINGLE COLUMN MICRO MARTIN STREET AND TERRITORY LUMINAIRE 16 LED 60w 4000K L22 Optic mounted @ 6 metres	7285	Roadway	517x170x96	0.037m2	60	L22	
	D		MRUE 038 740 L22 AA008	SINGLE COLUMN MICRO MARTIN STREET AND TERRITORY LUMINAIRE 8 LED 38w 4000K L35 Optic mounted @ 5 metres	4313	Plaza area	517x170x96	0.037m2	38	L35	
	D2		MRUE 038 740 L22 AA008	TWIN COLUMN MICRO MARTIN STREET AND TERRITORY LUMINAIRE 8 LED 38w 4000K L35 Optic mounted @ 5 metres	4313	Plaza area	517x170x96	0.037m2	38	L35	
	E		MRUE 038 740 L22 AA008	TWIN COLUMN MICRO MARTIN STREET AND TERRITORY LUMINAIRE 8 LED 38w 4000K L35 Optic mounted @ 6 metres	4313	Plaza area	517x170x96	0.037m2	38	L35	
	6m column		COL/6/T/R/89/76	6m tubular stepped column, 76mm post top spigot. Root mounted. Hot dip galvanised finish.	NA	NA	Overall Length 7m Base Dia 168.3mm Shaft Dia 88.9mm	NA	NA	NA	NA
	6m column		COL/6/T/FP/89/76	6m tubular stepped column, 76mm post top spigot. Flange Plated. Hot dip galvanised finish.	NA	NA	Overall Length 6m Base Dia 168.3mm Shaft Dia 88.9mm	NA	NA	NA	NA
	5m column		COL/5/T/R/89/76	5m tubular stepped column, 76mm post top spigot. Root mounted. Hot dip galvanised finish.	NA	NA	Overall Length 6m Base Dia 168.3mm Shaft Dia 88.9mm	NA	NA	NA	NA



FINN



Description

The Finn is a highly efficient modern minimalistic designed wall pack with a range of optics and emergency options.

Specification Text

The luminaire shall be manufactured from high pressure die-cast aluminium. It shall have an LED efficacy of up to 131 lm/W and will be capable of producing up to 3500 luminaire lumens at 4000K with a CRI >80. It shall be rated at IP65 and IK10.

Benefits

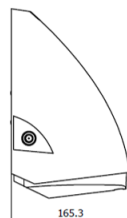
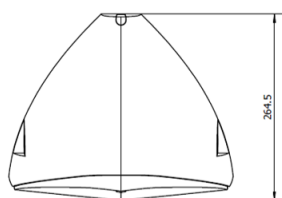
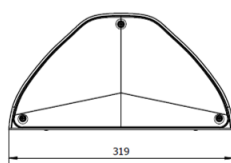
- Tough IP65 and IK10 construction
- Pathway / Open area / Asymmetrical distribution
- DALI driver optional
- 5-year Warranty

Technical Features

Voltage	220-240Vac
Wattage	8 - 28W
Colour	RAL7016 / RAL9002
Luminaire Lumens	1012 - 3500
Efficacy	Up to 131lm/W
Colour Temperature	2700, 3000 - 4000K (4000K standard)
CRI	>80

Life	>60,000 hrs L80
Dimming	Dali optional
Surge Protection	10KV
Operating Temp	-20 to +40°C
Accessories	Photocell / Smart wireless control / Emergency
Applications	Urban, retail, education, and car parks

Dimensions



Pathway 8 - 15W
Lumen output 1012 - 1746
Weight 2.35kg Standard
Weight 2.5kg Emergency

Open area 13/18/28
Lumen output 1700 - 3500
Weight 2.35kg Standard
Weight 2.5kg Emergency

Optics

Open area			
Asymmetric			
Pathway			

Smart Design



Suitable for rear and side cable entry

High quality Samsung LED's

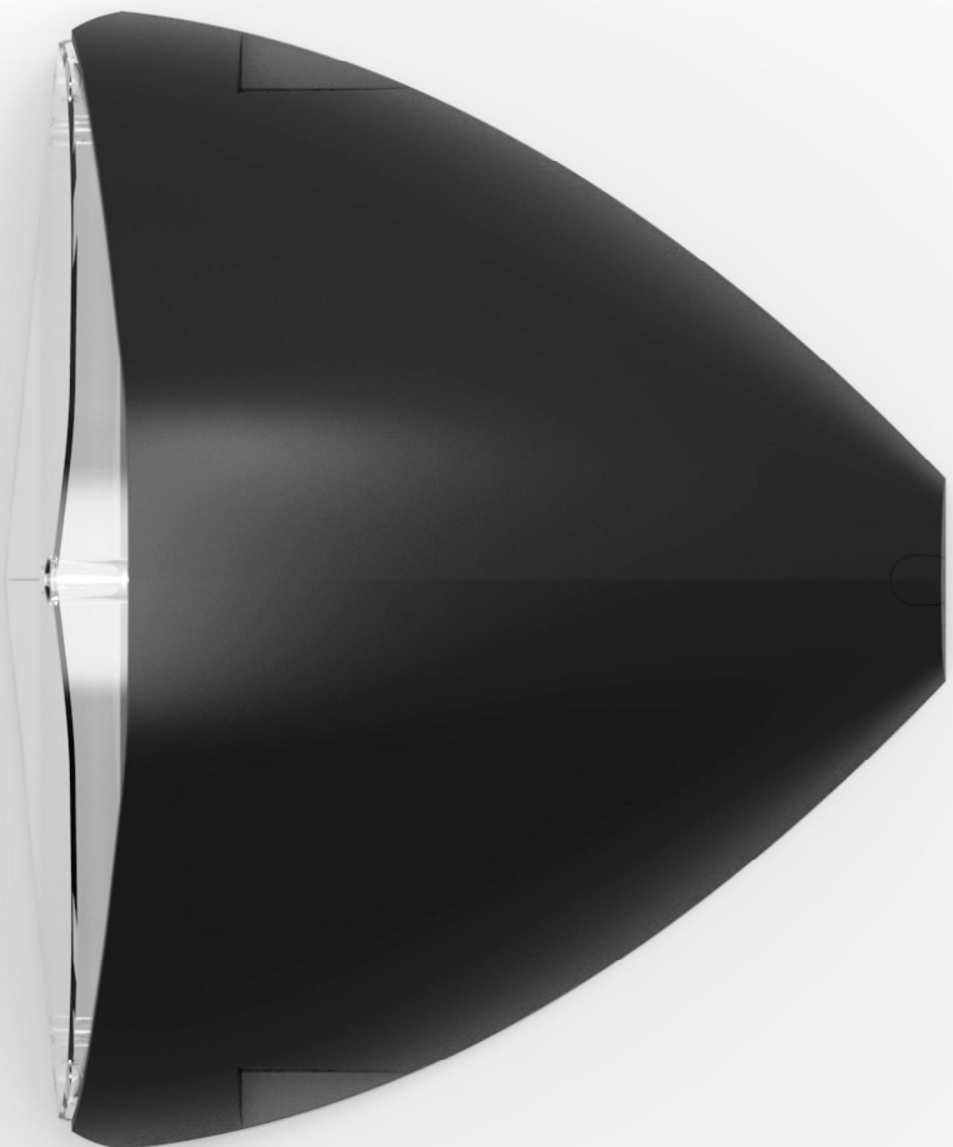
Suitable for conduit and BESA box installation

- PCB integrated with diffuser for easy installation

Part Code

Code									
FN	FINN								
Code		Wattage	Lumens +/- 5%						
013		13W	1,700		Open area/ Asymmetric				
018		18W	2,353						
028		28W	3,500						
008		8W	Pathway						
015		15W							
Code		Colour Temp							
2.7K		2700K							
3K		3000K							
4K		4000K							
Code		Optic							
OA		Open Area							
AS		Asymmetric							
PW		Pathway							
Code		Colour							
A		RAL7016							
GR		RAL 9002							
C		Custom colour (Available upon request)							
Code		Emergency							
E									
Code		Accessories							
N/A									
P		Photo Cell							
D		DALI							
W		Wireless Communication							
Example	FN	028	4K	OA	A	E	P		





vizulo



Micro Martin

TOOL-LESS





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

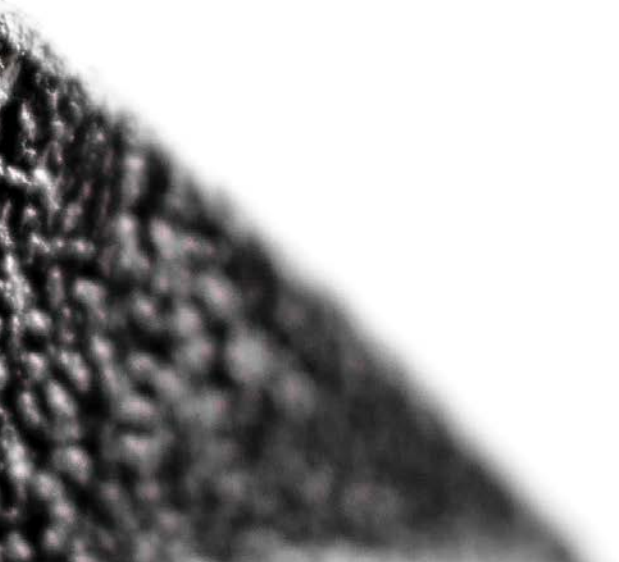
Built-in surge protection starting from 6 kV till 10 kV

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



Traffic roads

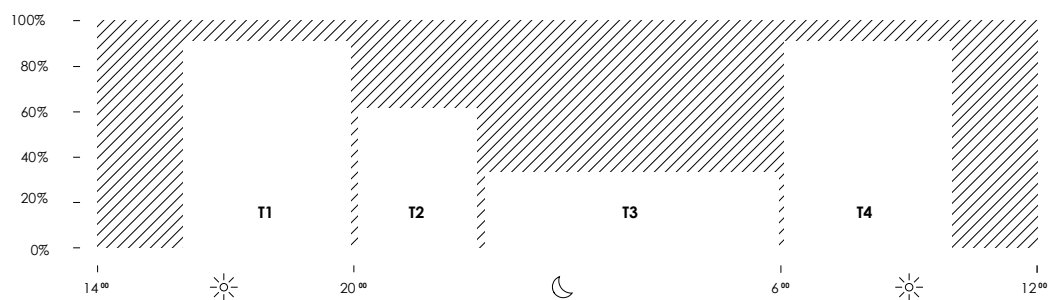
Pedestrian Roads

Residential Street/Area

City Centre

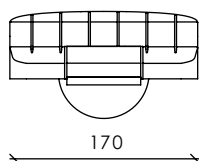
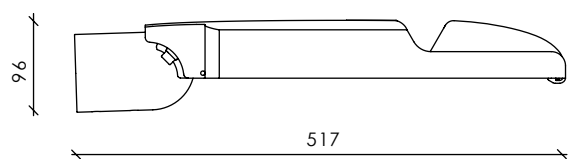
Midnight dimming

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.



Micro martin tool-less





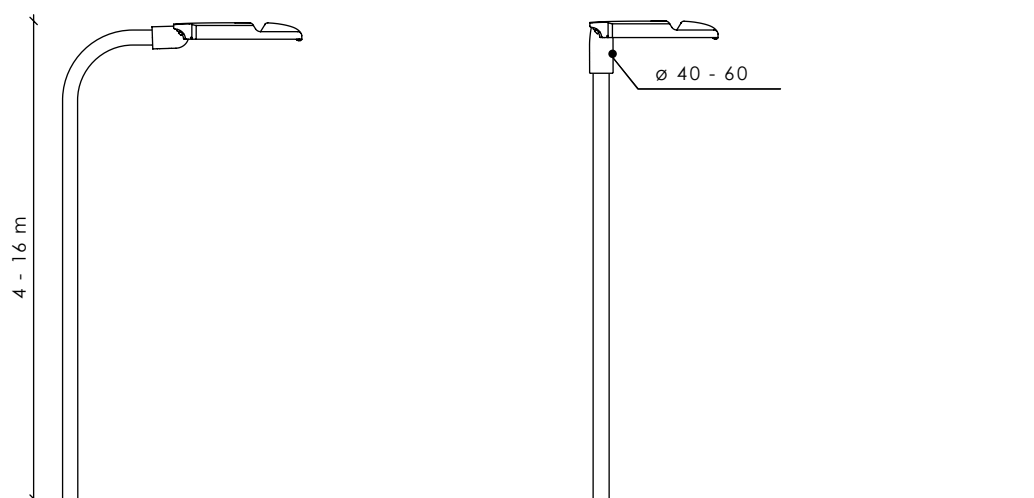
DB703



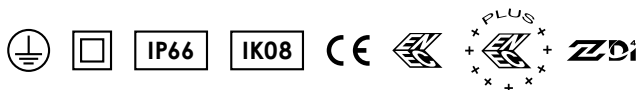
RAL9006

Other colors
available on request

Max.wind load area, SCd, m²: 0,036



Technical information



V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 75	Radio frequency
lm	470 - 8875	Warranty 5 years
lm/W	90 - 132	100 000 h (L95B10) at ta = 25°C
K	3000 / 4000	100 000h (L80B10C10) ⁽²⁾
°C	-40 to +50	
CRI	>70 / >80 ⁽¹⁾	
		<i>Surge protection:</i> 6 kV / sepearte built-in 10 kV
		<i>Spigot:</i> ø 40 - 60 mm
		<i>Body:</i> Die-cast aluminum

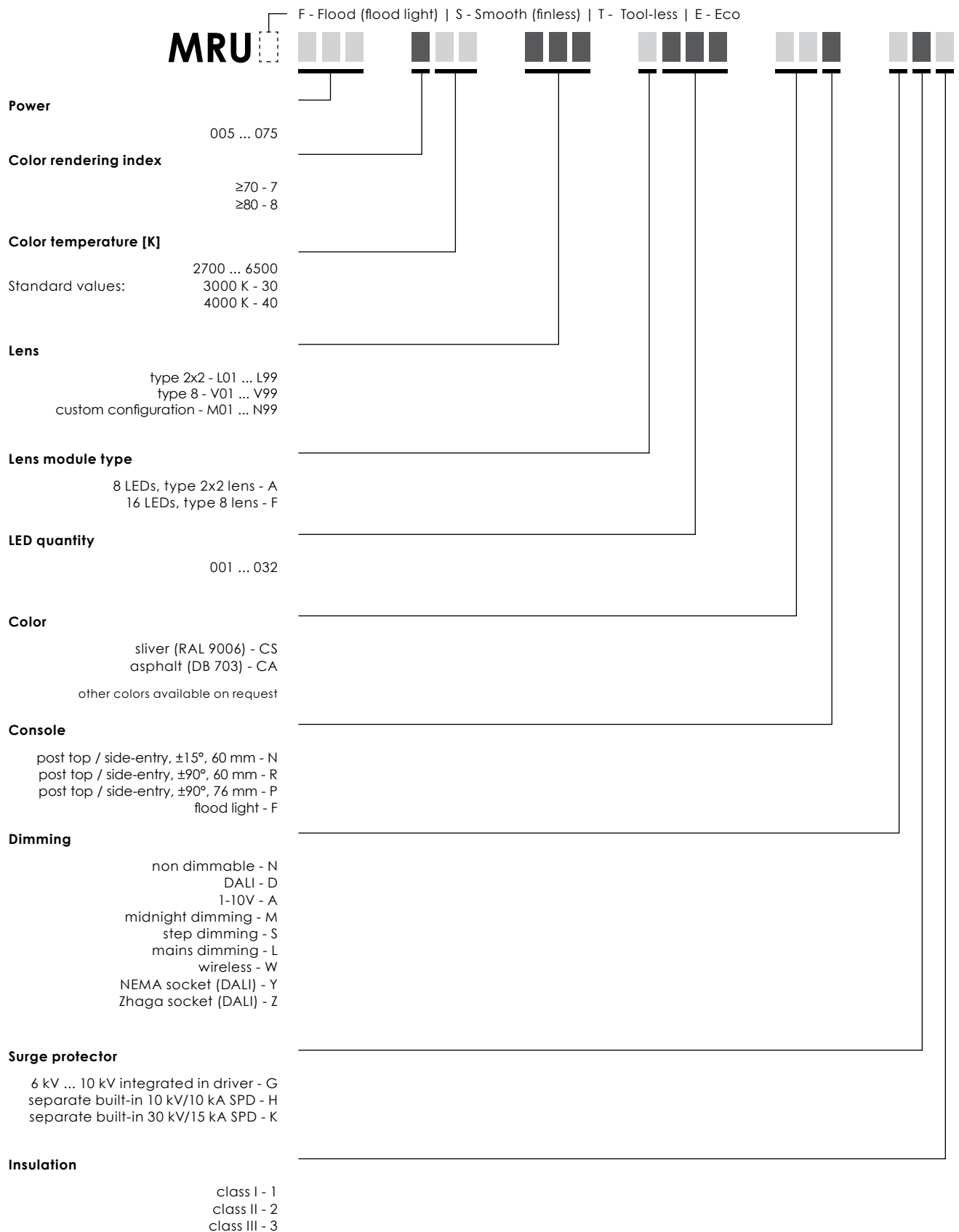
⁽¹⁾ Luminaries with color rendering index (CRI): Ra >90 on request

⁽²⁾ Average lifetime value for ECO model at Ta = 25C is 100 000h L80/B10*

*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models and will reach 100 000h L90/B10. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product acan differ from typical data by 7% due to special conditions of LED manufacturing processes.

Model name principles



EXAMPLE MRUE 045 740 L02 A016 CSN DG1

Standard modules

4000K

Number of LED's	8			16		
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

High density modules

4000K

Number of LED's	16			32		
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

ECO

4000K

Number of LED's	4			8			16		
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

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 µs)	10	16	21	28	16	21	35	44
MRU 16-28 LED, 19-60 W	32 A (267 µs)	7	12	15	19	11	20	25	30
MRU 32 LED, 28-75 W	32 A (267 µs)	7	12	15	19	11	20	25	30

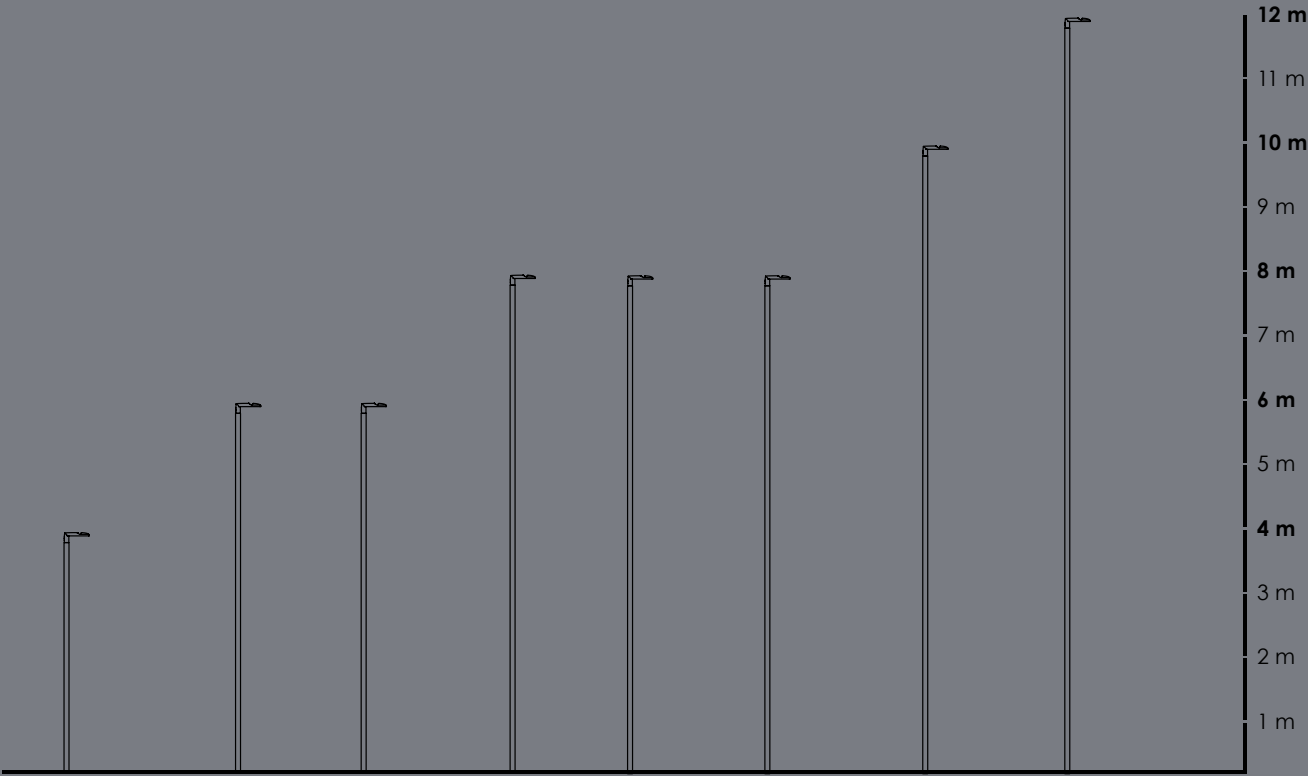
Eco		B10A	B16A	B20A	B25A	C10A	C16A	C20A	C25A
MRUE 4-12 LED, 8-33 W	36 A (195 µs)	10	16	21	28	16	21	35	44
MRUE 6-12 LED, 17-60 W	32 A (267 µs)	7	12	15	19	11	20	25	30
MRUE 12-16 LED, 22-75 W	37 A (287 µs)	7	12	15	19	11	20	25	30

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 µs)	10	17	21	28	16	27	33	44
MRU 20-32 LED, 18-66 W	53 A (200 µs)	7	12	15	20	11	19	24	32
MRU 32 LED, 67-75 W	57 A (210 µs)	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 µs)	10	17	21	28	16	27	33	44
MRUE 6-16 LED, 16-66 W	53 A (200 µs)	7	12	15	20	11	19	24	32
MRUE 16 LED, 67-75 W	57 A (210 µs)	7	12	15	20	11	19	24	32

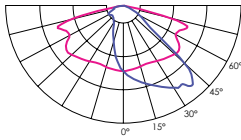
Pole height proposition



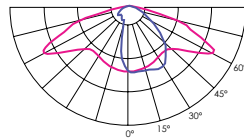
Pole height	4m	6 - 8 m	8 - 12 m
Standard modules	18 W	37 W	
High-density modules		37 W	75 W
ECO	18 W	37 W	75 W

Optics

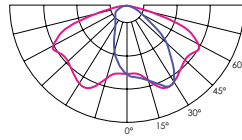
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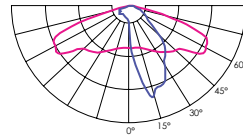
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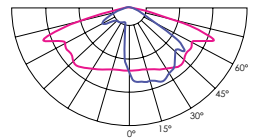
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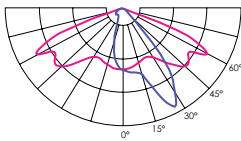
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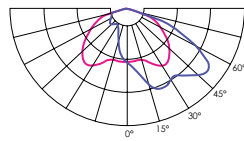
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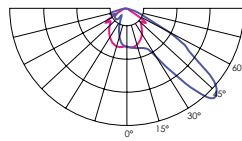
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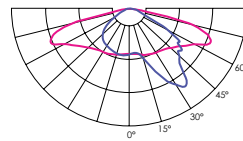
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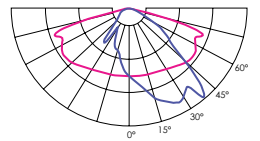
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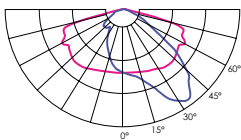
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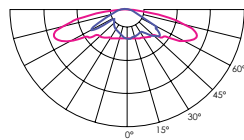
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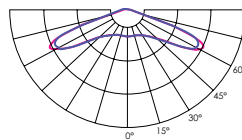
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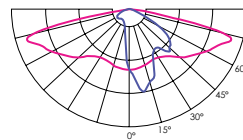
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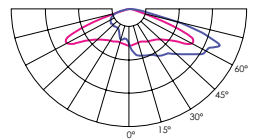
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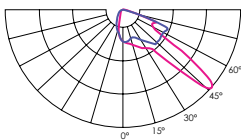
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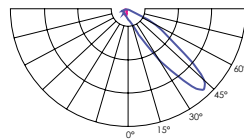
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36



37

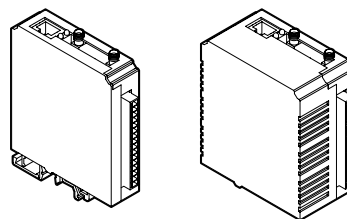


Accessories

Citintelly Segment controller

Art. 70010004

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

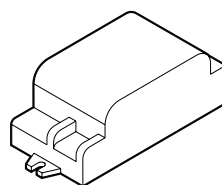


Citintelly Luminaire controller

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 /
LC2M-23-05-R Luminaire
Controller - 2 relays

Art. 70010002 /
LC2M-12-05-R Luminaire
Controller - 1 relay



Citintelly Surge Protection device

Art. 70020001

Surge Protection device offers protection against lighting surges;

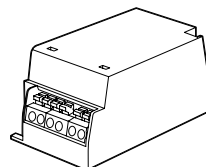
Voltage Protection level up (L-N) $\leq 1,5$ kV

Voltage Protection level up (L/N-PE) $\leq 2,0$ kV

$U_{oc} = 10$ kV

$I_{max} = 10$ kA

$I_{nom} = 5$ kA



Radio Frequency Antenna

Art. 70000108

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



NEMA Socket

2213362-3, 5 pin NEMA socket 105°C wires

Art. 70000362

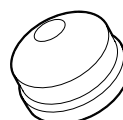
2213362-4, 7 pin NEMA socket 105°C wires

Art. 70000333



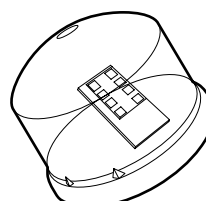
Dummy Link for NEMA Socket

Art. 70000113



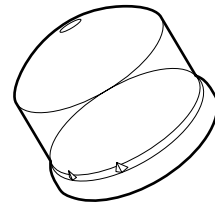
MSLC205RG Luminaire controller + radar, Zhaga, 80mm

Art. 70010027



**MSLC205RGL Luminaire controller,
Zhaga, 80mm**

Art. 70010029



Zhaga socket no cap

Art. 70000612



Zhaga socket with cap

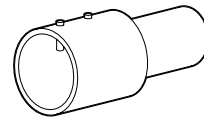
Art. 70000613



Console adapter

Spigot size 60 - 76mm

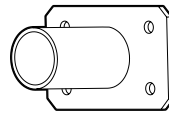
Art. 70044002



Wall mounting bracket

Spigot size 40 - 60 mm

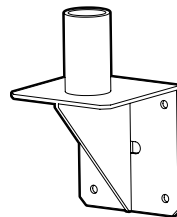
Art. 70044001



Wall mounting bracket

Vertical

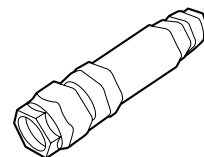
Art. 70044004



Connector

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

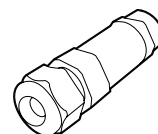
Art. 70000313



Connector

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

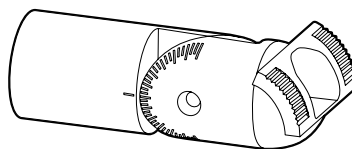
Art. 70000304



Adjustable Console $\pm 90^\circ$

60 mm - Mini Martin / Micro Martin

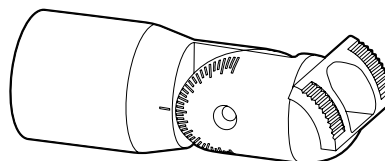
Art. 70055005



Adjustable Console $\pm 90^\circ$

76 mm - Mini Martin / Micro Martin

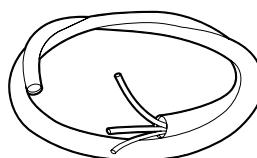
Art. 70055006



Pre-installed cable sets

For internal power supply:

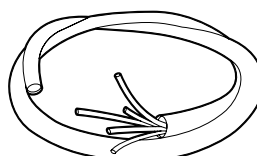
3 x 1,5 mm - 0,5 m long cable.....	Art. 70000319
3 x 1,5 mm - 5 m long cable.....	Art. 70000320
3 x 1,5 mm - 6 m long cable.....	Art. 70000321
3 x 1,5 mm - 8 m long cable.....	Art. 70000322
3 x 1,5 mm - 10 m long cable.....	Art. 70000323
3 x 1,5 mm - 12 m long cable.....	Art. 70000324
3 x 1,5 mm - 18 m long cable.....	Art. 70000325
3 x 1,5 mm - 20 m long cable.....	Art. 70000425
3 x 1,5 mm - 22 m long cable.....	Art. 70000426
3 x 1,5 mm - 25 m long cable.....	Art. 70000427
3 x 1,5 mm - 32 m long cable.....	Art. 70000430
3 x 1,5 mm - 42 m long cable.....	Art. 70000431
3 x 1,5 mm - 50 m long cable.....	Art. 70000432



Pre-installed cable sets

For internal power supply:

5 x 1,5 mm - 0,5 m long cable.....	Art. 70000305
5 x 1,5 mm - 5 m long cable.....	Art. 70000316
5 x 1,5 mm - 6 m long cable.....	Art. 70000317
5 x 1,5 mm - 8 m long cable.....	Art. 70000318
5 x 1,5 mm - 10 m long cable.....	Art. 70000306
5 x 1,5 mm - 12 m long cable.....	Art. 70000307
5 x 1,5 mm - 18 m long cable.....	Art. 70000308
5 x 1,5 mm - 20 m long cable.....	Art. 70000428
5 x 1,5 mm - 22 m long cable.....	Art. 70000429
5 x 1,5 mm - 25 m long cable.....	Art. 70000429
5 x 1,5 mm - 32 m long cable.....	Art. 70000433
5 x 1,5 mm - 42 m long cable.....	Art. 70000434
5 x 1,5 mm - 50 m long cable.....	Art. 70000435



VIZULO

Bukultu street 11
Riga, LV – 1005, Latvia

Sales: + 371 67 383 023
Production: + 371 67 383 024

office@vizulo.com
www.vizulo.com



VIZULO

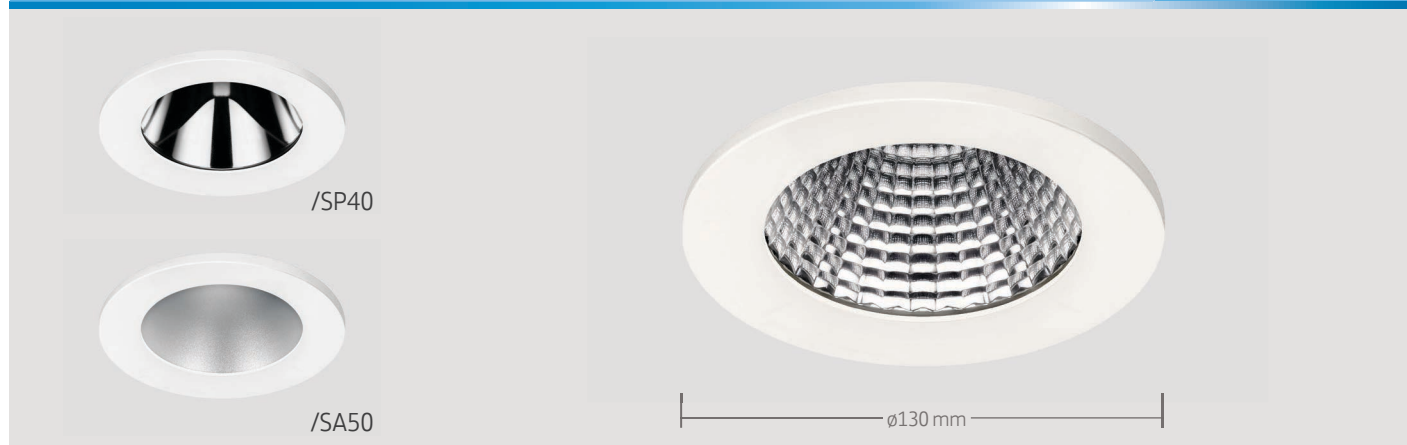


VIZULO_PHOTO



78 Series Datasheet

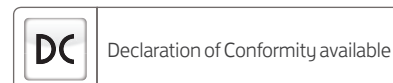
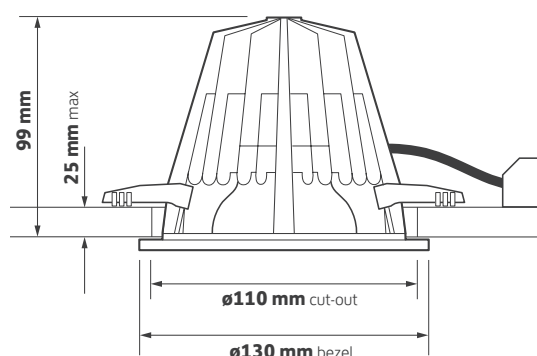
PHILIPS
TECHNOLOGY
INSIDE



Key Features

- ▶ Professional downlight with a wide choice of options
- ▶ Incorporates Philips LED module and driver system
- ▶ Multi-faceted 40° reflector supplied as standard
- ▶ Height under 100 mm using optimised passive thermodynamics
- ▶ Premium White Ra90 LED module as standard
- ▶ Life >50,000h L70/B10
- ▶ Low glare UGR <19
- ▶ ECA and Part L compliant variants
- ▶ 5 year warranty

Technical Drawing



Ordering Information

Output lm	Power tcW	Colour	Model Ref.
625	6	930	78.801
675	6	940	78.802
1150	12	930	78.1101
1250	12	940	78.1102
1800	18	930	78.2001
1925	18	940	78.2002
2425	27	930	78.3001
2600	27	940	78.3002
3250	32	930	78.4001
3500	32	940	78.4002
4600	48	930	78.6001
4950	48	940	78.6002

Options

Please select from the options below.

TA200 bezel options	/BWH, /WH, /CH, /GY, /BL
25° Multi-faceted	/MF25
60° Multi-faceted *	/MF60
40° Specular	/SP40
50° Satin	/SA50
Touch dimming / DALI	/T+DALI
Bluetooth wireless control (inc dim)	/BTC
Emergency (remote indicator)	/EM
DALI Emergency (remote indicator)	/EMD
Emergency integral indicator	/EMI
DALI Emergency integral indicator	/EMDI

*Not available on 78.400x and 78.600x

78 Series Options and Accessories

Options



TA200/WH
White bezel - RAL9010



TA200/CH
Chrome bezel



TA200/GY
Grey bezel - RAL9006



TA200/BL
Black bezel - RAL9005



TA200/BWH
Brilliant white bezel - RAL9016



TA225/WH
White bezel drop clear halo



TA226/WH
White bezel drop opal halo



AT200/WH
White anti-tamper bezel



IP65/001/130
IP65 bezel clear poly



/T+DALI
Touch dimming / DALI



/BTC
Casambi Bluetooth wireless network
(inc dim)



/MF25
25° Multi-faceted reflector



/SP40
40° Specular reflector



/SA50
50° Satin reflector



/MF60
60° Multi-faceted reflector



/EM
3h EM conversion
c/w remote indicator



/EMD
3h DALI / ST EM conversion
c/w remote indicator



/EMI
3h EM conversion
c/w integral indicator



/EMDI
3h DALI / ST EM conversion
c/w integral indicator

78 Series Options and Accessories

Accessories



TA220/FROST
Frosted hi-light



TA220/BUE
Blue hi-light



TA210/BLACK
Black snoot



TA210/FROST
Frosted snoot



TA210/BUE
Blue snoot



TA208
Kick reflector



TA240
IP54 Clear glass



TA241
IP54 Centre etched glass



TA242
IP54 Fully etched glass



PI200
Installed kit and fitting. Please see
PI200 datasheet for details.



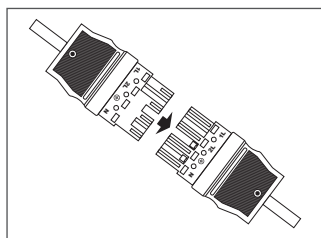
PI200
Plaster-in kit. Please see PI200
datasheet for details.



HALOKIT.001
Halo kit - maximum cut-out 150 mm



GF208 / GF218
Anti-tamper driver / Anti-tamper bit



Product variations
Plug and Sockets

NOTES:

ALL DIMENSIONS IN MILLIMETRES

ALL PLATE TO BS EN 10025

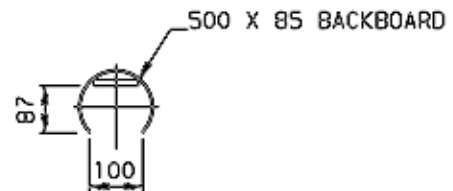
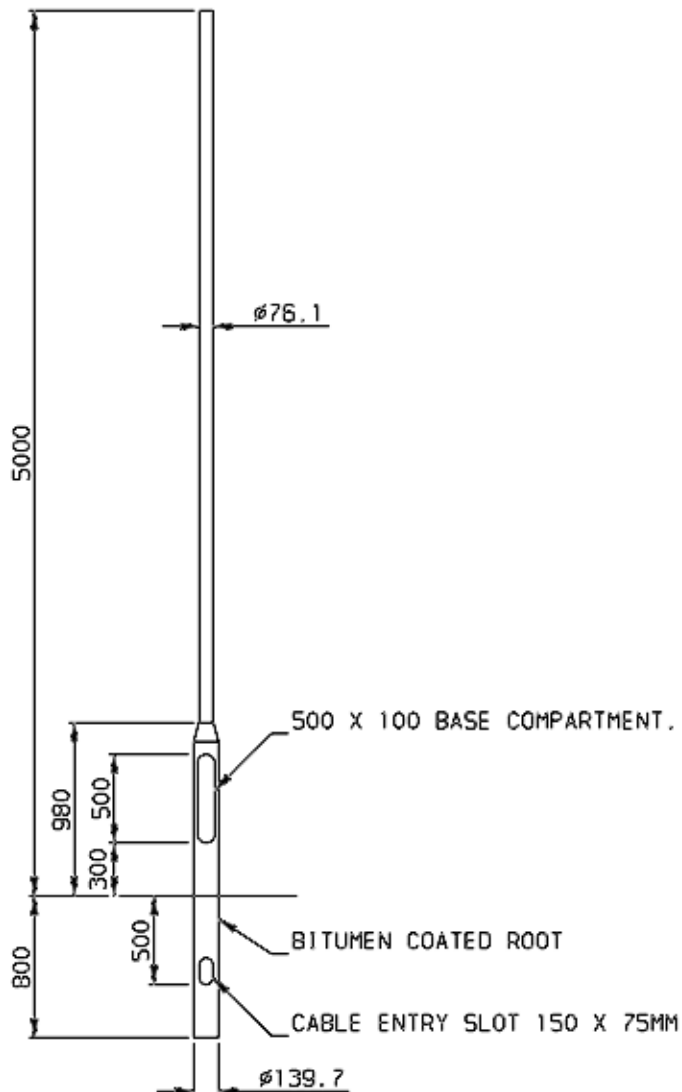
ALL CFCHS TO BS EN 10219

ALL WELDING TO BS EN 1011

FINISH: H.D.G. TO BS EN ISO 1461.

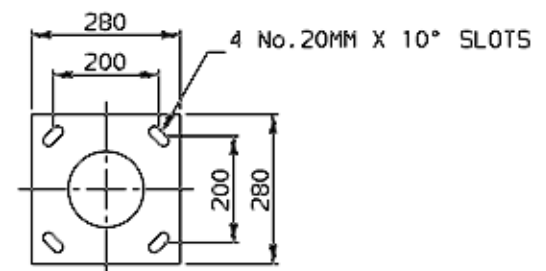
PART No: FR2505T01 - ROOTED.

FF2505T01 - FLANGEPLATED.



BASE COMPARTMENT.

SCALE 1:10



FLANGEPLATE OPTION.

SCALE 1:10



Notes

All dimensions in millimetres unless stated otherwise.

TITLE: 5m Tubular Post Top Column				AVAILABLE FROM: LPS Lighting Unit 08 Woodland Close Clipstone NG17 8NA TEL: 01623 855320 www.lpslighting.co.uk
DRAWN	CHECKED	DATE	SCALE	DRAWING No.
S.B	S.B	26/10/05	1:30 U.O.S.	S-FR2505T01-01

Technical Information

Design

BSEN40, PD6547: 2004+A1: 2009 (No sign)

Load class B

Deflection class 3

Head load- See Table

Finish

Galvanised to BSEN 1461:2009

Welding

In accordance with BSEN1011

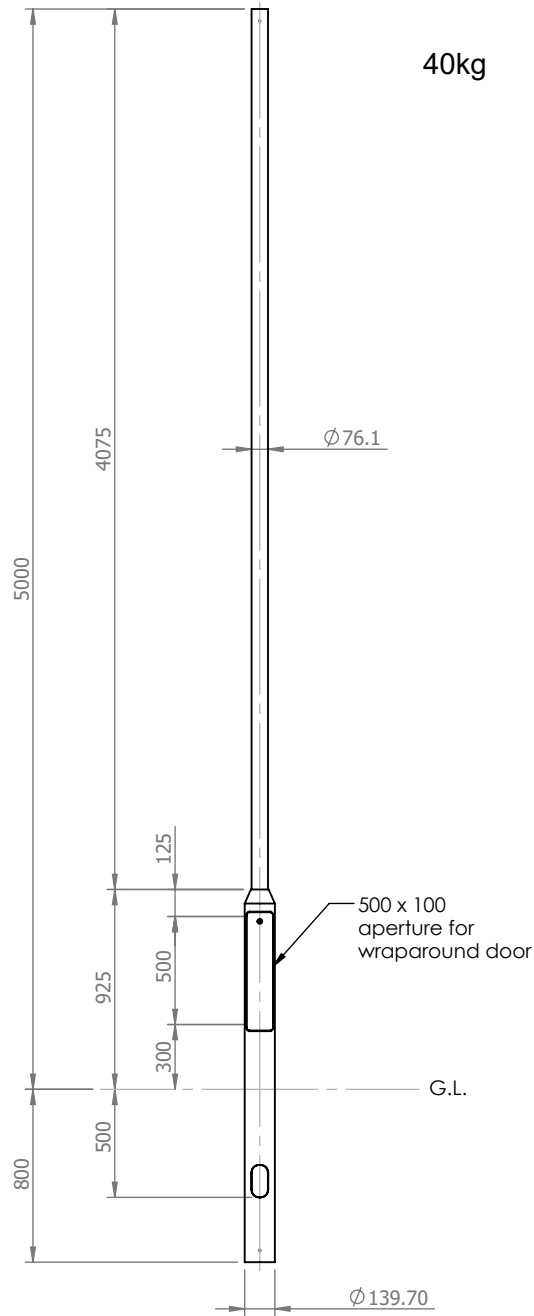
Procedures to BSEN ISO 15614-1:2017

Welders qualified to BSEN ISO 9606-1:2017

* Maximum design head load based on wind loading region with orientation of bracket/ luminaire(s) being on same plane as door

3rd Angle

Maximum Loading including Bracket		
Wind Loading Region	Terrain Category	Weight/Area
Extra Light	II	55kg/0.48m ²
	III	60kg/0.63m ²
Light	II	40kg/0.42m ²
	III	60kg/0.53m ²
Medium	II	38kg/0.38m ²
	III	50kg/0.49m ²
Heavy	II	35kg/0.34m ²
	III	45kg/0.44m ²
Extra Heavy	II	30kg/0.25m ²
	III	34kg/0.33m ²



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Lighting Project Solutions
E-mail: info@lpslighting.co.uk
01623 855320

Revisions		
Rev.	Description	Date

Title

5 metre tubular post top column

Drg No. 44620-0

Scale:1:35

Sheet 1 of 1

Drawn By: FR

Chk'd: MB

Ref. 5M01A

Contract:

Customer:

Date: 22/12/2020

All dimensions in millimetres unless stated otherwise.

When Multiple views are shown 3rd Angle Projection is assumed.

NOTES:

ALL DIMENSIONS IN MILLIMETRES

ALL PLATE TO BS EN 10025.

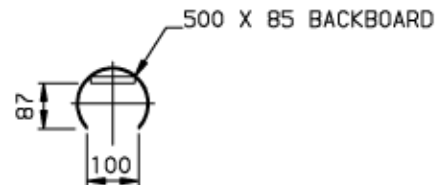
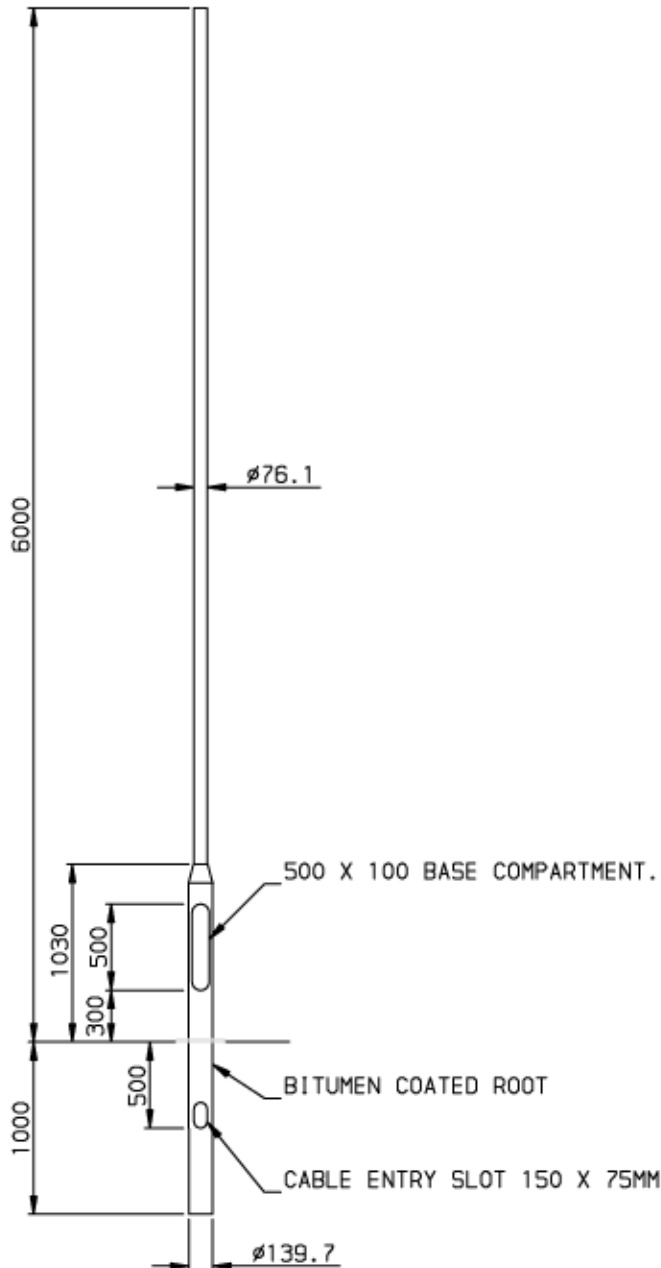
ALL CFCHS TO BS EN 10219

ALL WELDING TO BS EN 1011

FINISH: H.D.G. TO BS EN ISO 1461.

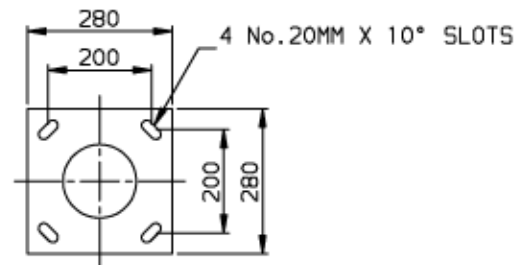
PART No: FR2506T01 - ROOTED.

FF2506T01 - FLANGEPLATED.



BASE COMPARTMENT.

SCALE 1:10



FLANGEPLATE OPTION.

SCALE 1:10



TITLE: 6m Tubular Post Top Column				AVAILABLE FROM: LPS Lighting Unit 08 Woodland Close Clipstone NG17 8NA TEL: 01623 855320 www.lpslighting.co.uk
DRAWN	CHECKED	DATE	SCALE	DRAWING No.
RJG	RJG	13/07/04	1:30 U.O.S.	S-FR2506T01-01

Technical Information



Design

BSEN40, PD6547: 2004+A1: 2009 (No sign)

Load class B

Deflection class 3

Head load See Table

Finish

Galvanised to BSEN 1461:2009

Welding

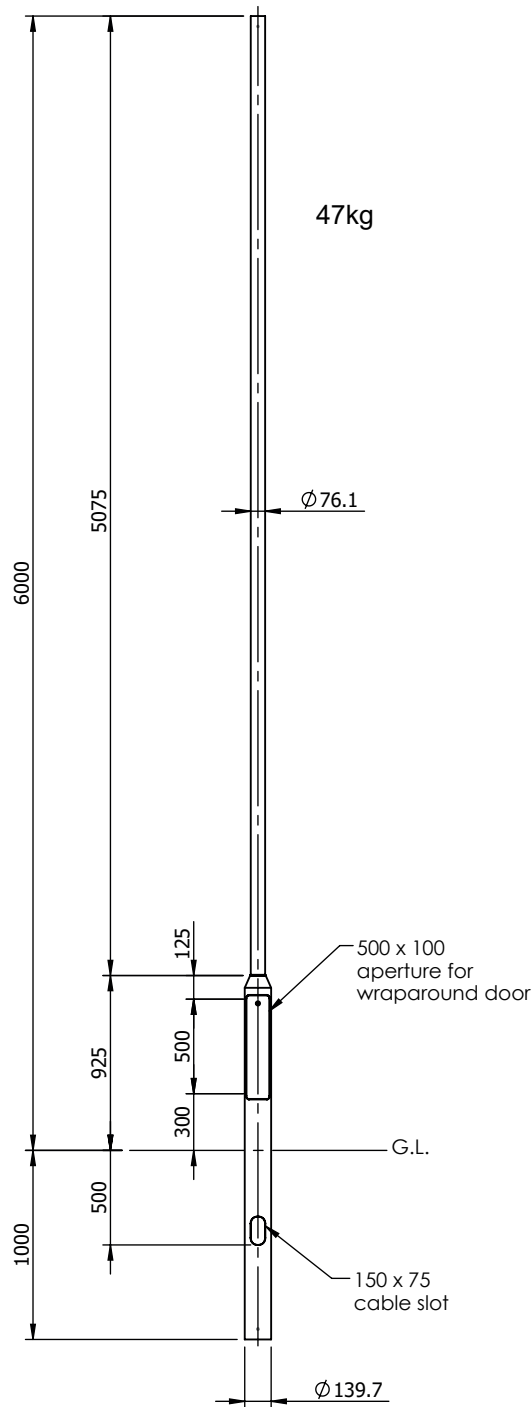
In accordance with BSEN1011

Procedures to BSEN ISO 15614-1:2017

Welders qualified to BSEN ISO 9606-1:2017

* Maximum design head load based on wind loading region with orientation of bracket/ luminaire(s) being on same plane as door

Maximum Loading including Bracket		
Wind Loading Region	Terrain Category	Weight/Area
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Medium	II	38kg/0.38m ²
	III	50kg/0.49m ²
Heavy	II	35kg/0.34m ²
	III	45kg/0.44m ²
Extra Heavy	II	30kg/0.25m ²
	III	34kg/0.33m ²



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Lighting Project Solutions
E-mail: info@lpslighting.co.uk
01623 855320

All dimensions in millimetres unless stated otherwise.

When Multiple views are shown 3rd Angle Projection is assumed.

Revisions		
Rev.	Description	Date

Title

6 metre tubular post top column

Drg No. 44622-0

Scale:1:35

Sheet 1 of 1

Drawn By: FR

Chk'd: MB

Ref. 6M01A

Contract:

Customer:

Date: 16/12/2020