

## Lighting Assessment: New Works:

Formation of charging zone, erection of EV chargers, erection of canopy, Substation enclosure, one jet wash bay and associated forecourt works.

Marston Green Service Station, 53 Station Road, Marston Green, Solihull, B37 7AB

(Please refer to drawings ref: DM190.1 and DM 190.2)

## **Exterior Lighting for New Works:**

The new lighting is indicated on drawing SH190.1 (A,B, C1 and C2). A product description for each new luminaire type is included within the key. All exterior lighting is specified with an LED beam control system enabling sharp cut off and control of beam direction (below 70 degrees), avoiding glare, trespass and night sky pollution. Lighting Product datasheets are included for reference.

## Impact on neighbouring property by the new scheme and compliance.

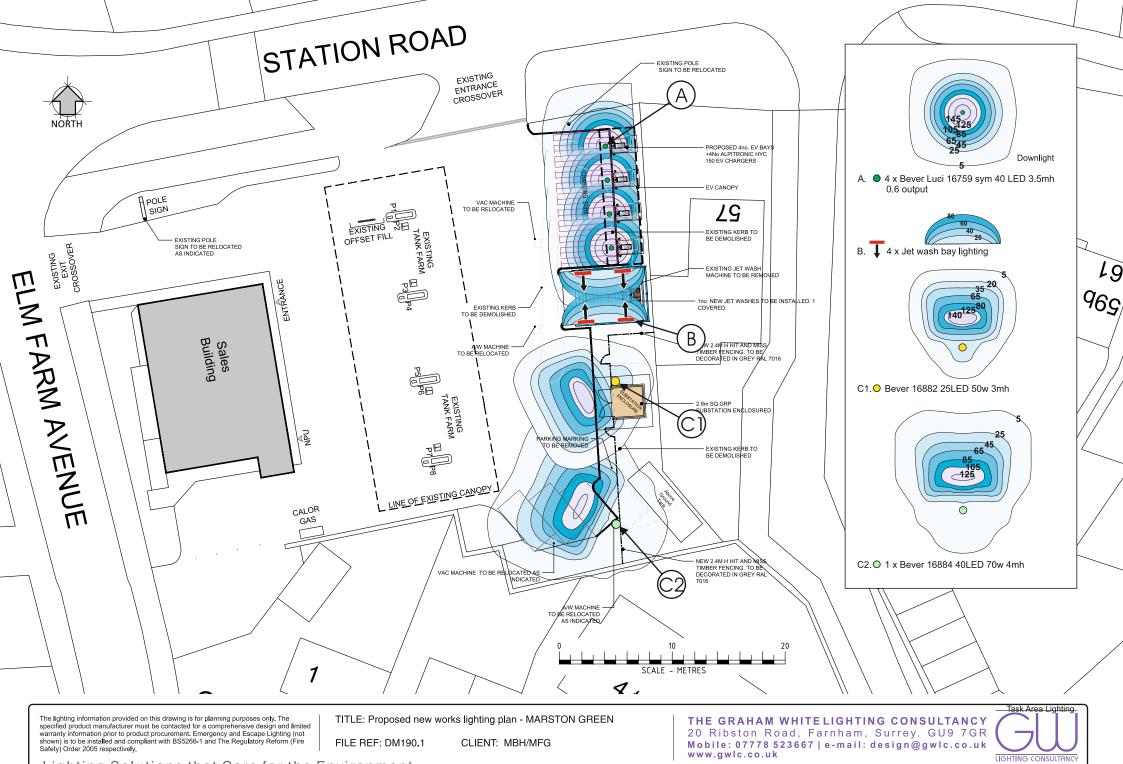
The LPA has stated: Before any development scheme lighting is used on the premises, it shall be subject to a lighting assessment, which shall be submitted for approval by the Local Planning Authority.

The scheme shall assess and quantify light levels and show contoured light impact (lux levels) that indicate light overspill e.g. Illuminance in the vertical plane (Ev). The scheme shall demonstrate compliance with relevant guidance (e.g. The institution of Lighting Professionals Guidance Note GN01/21 - The Reduction of Obtrusive Light (2021).

The installation and subsequent operation of lighting on site shall be in accordance with the approved scheme which shall thereafter be maintained.

Illuminance contours for the new luminaires and locations, are shown on drawing DM190.1 and the resulting illuminance values for the new site lighting for horizontal levels across the subject area and vertical levels (Lux) on the front face of adjacent receptor boundaries/residential properties are shown on drawing DM190.2. I can confirm tested compliance compatible with ILP GN01/21, Environmental Zone E3, Table 3 - Limitation of Illumination on Surrounding Premises. Existing and proposed boundary treatment to adjacent property along with the benefit of good lighting design with new LED technology will provide a high degree of control to restrict any boundary spillage of light and eliminate nuisance to neighbouring residents, highways and any adjacent wildlife habitats.

Graham White (Senior Designer) GWLC



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0300000.13 0.30 0.40 0.37 0.28 0.00 0.00 0.00 0.00 0.00 01 0.01 0.01 0.01 0.00 0.00/0.00 0.00 OBE 20 -10 6 0 0 ENTRANCE OROSSOVER 0.00 0.00 0.00 05 28 9 0 0 04 0 05 4 0.00 0.00 0.00 00 23 0.36 0.17 0.80 5 5 040.0 0.17 0.24 0.00 0.00 0.00 32 306 0 .01 .82 0.07 0.06 14 0.06 0.00 0.000.00 .00 33 .00 0.06 0.07 5 0.06 0.06 0.20 10 .50 04 0 04 0 0.01 0.03 0.03 0.03 0/00 0.00 03 .00 0.00 00 30 ND 58 6 -2 0 04 02()40.03 0.03 0.03 0.03 69 0.00 00 01 0 50 00 3 52 0.03 0.03 033 .59 0.03 DE 0.02 0.04 0 0 02 04869 19 ELM 50 0.03 0.03 0.00 0.03 0.00 00 0.01 .54 3.44 0 04 ()4965 0.02 0.02 0.02 0.00 02 .00 0 01 0 55 3.31 89 D 00 0 20 0.02 0.02 .07 04 0.04 0.02 0.0 FARM 0.01 Sales Building .01 0.00 0.01 0.02 0.02 02 28 0.02 21 01 38 L) ERILOATED 9 0.04 0.01 )4 0.01 0.02 2 0.00 0.02 01 0 01 0/3 25 66 42 104 0.02 0.04 19 .01 0.0 .00 0.02 06 0 0155 74 0 0 D 57 0.04 D .01 0.0 0.02 Ø0 03  $\mathbf{0}$ 01 0 0 50 4 69 ARKING ARAING 15 32 .03 06 0 4 Ø 0 0.01 0 0.02 0.02 0/.00 0.01 0550 23 0 18 88 33 U .31 .50 13 0. 0.03 05 0 0.0 0 0.01 X 0 0.00 0.01 0 31 28 3 07 ()437 34 .68 2 PORO3 0 0.0 00 8 65 5 0 .09 27 0.07 04 0.00 00 00 011 00 59 3 06 08 02 3 0 01 0.000 .00 0 0.00 0.00 0.00 00 0 04 0 .07 Ø1 0 .02 0 0 0 0.00 0.00 00.0 0.00 .00 00 0 0 00.0 00 AS INDIC 02 02 03 0 0 0.00 01 00.0 0.00 0.00 0 .00 00.0 01 0 0 01 0 0 0 0 .0 0.00 SCALE - METRES 5. TITLE: Horizontal and Vertical value charts - MARSTON GREEN

The lighting information provided on this drawing is for planning purposes only. The specified product manufacturer must be contacted for a comprehensive design and limited warranty information prior to product procurement. Emergency and Escape Lighting (not shown) is to be installed and compliant with BS5266-1 and The Regulatory Reform (Fire Safety) Order 2005 respectively.

FILE REF: DM190.2 CLIENT: MBH/MFG THE GRAHAM WHITELIGHTING CONSULTANCY 20 Ribston Road, Farnham, Surrey. GU9 7GR Mobile: 07778 523667 | e-mail: design@gwlc.co.uk www.gwlc.co.uk



Lighting Solutions that Care for the Environment







#### **Benefits**

- Flexible luminaire. Select the number of LED's and optic for an ideal lighting solution.
- Easy Installation. Click & Lock surface mounting plate.
- Intelligent output control using integrated Motion and Daylight sensor.
- Self-controlled operating conditions:
  - Luminaire Intelligent Protection System (LIPS). 💷
    - Active Overheat Protection (AOP). [APP]
    - Light Normalizer No Lumen drop during lifetime.
- 🖶 Integrated EOS technology: 🙆
  - Plug-and-play self-organizing wireless network.
  - Encrypted communication.
  - Advised maximum spacing for network: 25 meter.
- Intuitive control and analysis with the EOS Manager app:
  - User authentication and data encryption.
  - Visual representation of your EOS network.
  - Extensive configuration, information, and usage statistics.
  - Share sensor information between EOS devices.
- Protected against dust and water intrusions, IP67



# Luci Series EOS<sup>2</sup>

#### Features

Number of LED's Lumen Output Input Power Efficacy Colour Temperature (CCT) Colour Rendering Index (CRI) Rated Life Daylight Sensor (DLS) Motion Sensor (PIR) Housing

Optic Mounting Options Dimensions Operating Temperature Connection cable

Voltage

Rated Input Current

Power Factor IEC Safety Class Weight AC Harmonics 40/50/80 Up to 19.617 lm Up to 180 W Up to 127 lm/W 4000K / 5700K 83+/73+ 100.000+ Hours\* Integrated Integrated. Range: 7 meter\*\* PC-ABS white. Anodized Aluminium РММА Surface. Recessed 326 x 326 x 98 mm -30 °C to +60 °C\*\*\* 1500 mm EPR extra flexibility (-40 °C + 90 °C), UV resistant 90 - 305 VAC @ 47 - 63 Hz 127 - 431 VDC 120 V - 1.25 A 305 V - 0.54 A 0.97 typical I 7.2 kg Less than 10% THD compliant to EN55015

Automatic Temperature Reduction

- L80/B10 at 25 °C constant ambient temperature, constant full power.
- \* Detected temperature difference 8 °C @ 1 m/s
- \*\* Active Overheat Protection above 80 °C at PCB

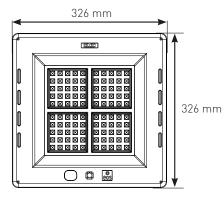


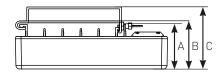
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## 100% FOCUS ON PETROL



## Dimensions







\* Optional recessed brackets available.

## Ordering information

Article number	Nomenclature	Number of LED's	Optic	Default Power	Default Lumen	Max. Power	Max. Lumen	Max. Efficacy	ССТ	CRI
	Luci Series EOS 40 LED									
16759	Luci02-S-MB01-40LED-N0-93W (EOS <sup>2</sup> , 5700K)	40	$\bigoplus$	75W	8645 lm	93W	10382 lm	127 lm/W	5700K	73+
	Luci Series EOS 50 LED									
16764	Luci02-S-MB01-50LED-N0-125W (EOS <sup>2</sup> , 4000K)	50	$\bigoplus$	100W	11155 lm	125W	13300 lm	117 lm/W	4000K	83+
16760	Luci02-S-MB01-50LED-N0-125W (EOS <sup>2</sup> , 5700K)	50	$\bigoplus$	100W	11552 lm	125W	13626 lm	125 lm/W	5700K	73+
16868	Luci02-A-MB02-50LED-N0-125W (EOS <sup>2</sup> , 4000K)	50	+	100W	11279 lm	125W	13309 lm	116 lm/W	4000K	83+
16762	Luci02-A-MB02-50LED-N0-125W (EOS <sup>2</sup> , 5700K)	50	+	100W	11691 lm	125W	13790 lm	123 lm/W	5700K	73+
	Luci Series EOS 80 LED									
16765	Luci02-S-MB01-80LED-N0-180W (EOS <sup>2</sup> , 4000K)	80	$\bigoplus$	145W	15636 lm	180W	18790 lm	120 lm/W	4000K	83+
16761	Luci02-S-MB01-80LED-N0-180W (EOS <sup>2</sup> , 5700K)	80	$\oplus$	145W	16358 lm	180W	19496 lm	127 lm/W	5700K	73+
16766	Luci02-A-MB02-80LED-N0-180W (EOS <sup>2</sup> , 4000K)	80	+	145W	16074 lm	180W	19240 lm	119 lm/W	4000K	83+
16763	Luci02-A-MB02-80LED-N0-180W (EOS <sup>2</sup> , 5700K)	80	+	145W	16341 lm	180W	19617 lm	121 lm/W	5700K	73+

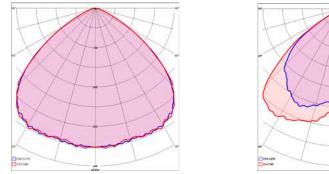
Asymmetrical

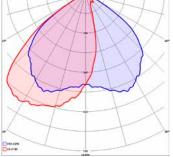
🔶 🕨 Symmetrical

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Optic





Symmetrical

Asymmetrical

## Accessories

#### Surface Mounted

13135	High Mounting plate for Surface mounting
12996	Low Mounting plate for Surface mounting
	Recessed Mounted
13406	Recessed frame for new canopies and retrofit of Philips Mini 300 (hole 360x360 mm)
11726	Recessed frame for retrofit of Philips MPF (hole 470x470 mm)
13742	Recessed frame for retrofit of Cube (hole 380x380 mm)

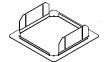
- 13746 Recessed frame for retrofit (hole 600x600 mm)
- 13738 Recessed frame for retrofit of Parkersell Canolux (hole 560x410 mm)



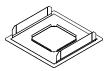
13135 Luci Series + High Mounting Plate = 133 mm high



12996 Luci Series + Low Mounting Plate = 103 mm high



13406 Philips Mini 300 (hole 360x360 mm)



11726	Philips MPF (hole 470x470 mm)
13742	Cube (hole 380x380 mm)
13746	Retrofit (hole 600x600 mm)
13738	Parkersell Canolux (hole 560x410 mm)

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# Luci Series EOS<sup>2</sup>

## Compliances Luci Series EOS

IEC 60598-1	Luminaires - Part 1: General requirements and tests
IEC 60598-2-1	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires
IEC 60598-2-2	Luminaires - Part 2-2: Particular requirements - Recessed luminaires
IEC 62471:2008	Photobiological safety of lamps and lamp systems
EMC directive 2004/108/EC:	
- EN 55015:2006 +A1:2007, +A2:2009	Limits and methods of measurement of radio disturbance of electrical lighting and similar
	equipment
- EN 61000-3-2:2006 +A1:2009, +A2:2009	Harmonic current emissions
- EN 61000-3-3:2008	Limitation of voltage fluctuations
- EN 61547:2009	Equipment for general lighting purposes. EMC immunity requirements. From which:
o EN 61000-4-2:2009	Electrostatic discharge (ESD) immunity
o EN 61000-4-3:2006 +A1:2008, +A2:2010	Radiated EM field immunity
o EN 61000-4-4:2004, +A1:2010	Electrical fast transient (EFT) immunity
o EN 61000-4-5:2006	Surge transient immunity
o EN 61000-4-6:2009	Conducted Radio-frequency disturbance immunity
o EN 61000-4-11:2004	Immunity to voltage dips and short interrupts.

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# PANTALLA ESTANCA LED D IP65 · Multiusos (exterior o interior)

Parkings, almacenes, fábricas, maquinaria, ascensores, oficinas, cocinas, jardines y terrazas, etc.







IP65 IK08 (120

# **Especificaciones técnicas**

appeentedero							
Referencia	• W ·	Equivalente	Temperatura de color	Dimensiones	Lúmenes nominales	Flujo luminoso	PVP*
PED10W/865 PED10W/840	10W	1x18W (600mm)	6500K-4000K	600x80x36mm	1100 Lm 1100 Lm	950 Lm 950 Lm	
PED18W60/865 PED18W60/840	18W	2x18W (600mm)	6500K-4000K	600x80x36mm	1980 Lm 1980 Lm	1834 Lm 1834 Lm	
PED18W120/865 PED18W120/840	18W	1x36W (1200mm)	6500K-4000K	1200x80x36mm	1980 Lm 1980 Lm	1834 Lm 1834 Lm	
PED36W/865 PED36W/840	36W	2x36W (1200mm)	6500K-4000K	1200x80x36mm	3960 Lm 3960 Lm	3808 Lm 3808 Lm	
PED22W/865 PED22W/840	22W	1x58W (1500mm)	6500K-4000K	1500x80x36mm	2420 Lm 2420 Lm	2100 Lm 2100 Lm	
PED45W/865 PED45W/840	45W	2x58W (1500mm)	6500K-4000K	1500x80x36mm	4950 Lm 4950 Lm	4528 Lm 4528 Lm	
Radar Apagado a	l 20%					CONTRACTOR OF	
PEDR10W/865 PEDR10W/840	10W Radar	1x18W (600mm)	6500K-4000K	600x80x36mm	1100 Lm 1100 Lm	950 Lm 950 Lm	
PEDR18W60/865 PEDR18W60/840	18W Radar	2x18W (600mm)	6500K-4000K	600x80x36mm	1980 Lm 1980 Lm	1834 Lm 1834 Lm	
PEDR36W/865 PEDR36W/840	36W Radar	2x36W (1200mm)	6500K-4000K	1200x80x36mm	3960 Lm 3960 Lm	3808 Lm 3808 Lm	
PEDR45W/865 PEDR45W/840	45W Radar	2x58W (1500mm)	6500K-4000K	1500x80x36mm	4950 Lm 4950 Lm	4528 Lm 4528 Lm	

**ESADECREAPOLIS** 



\*Impuestos no incluidos. Tensión: 85-265V (50-60 Hz) PF>0,9. CRI>80.

Disponible desde Julio 2016







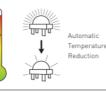




#### **Benefits**

- Increases visibility and comfort
- Most advanced LED-technology
- High efficient design: up to 114 lm/W luminaire efficacy
- Outdoor ambient resistant -40°C to +60°C
- Integrated die cast aluminium housing ensures good thermal management maximizing life and LED performance
- Protected on against moisture, power dips or surges
- Same model for straight or bended poles, easy finetuning of angle
- Easy to install by one person
- Attractive design
- Mounting height: max. 18 meter
- 🖪 Night-time dimming. Configurable dusk till dawn dimming schedule
- Self-controlled operating conditions:
  - Luminaire Intelligent Protection System (LIPS)
  - Active Overheat Protection (AOP)
  - Light Normalizer No Lumen drop during lifetime
- Integrated EOS technology:
  - Plug-and-play self-organizing wireless network
  - Encrypted communication
  - Advised maximum spacing for network: 30 meter
- Intuitive control and analysis with the EOS Manager app:
  - User authentication and data encryption
  - Visual representation of your EOS network
  - Extensive configuration, information, and usage statistics
  - Share sensor information between EOS devices
  - Active Overheat Protection Luminaire Intelligent Protection System

Integrated EOS Technology ens



SKU: 16882

Ambiente. A-Symm. Wide Beam. 25LED - NO. 50W default. 5700K. CRI73+. EOS.

#### Features

Optic

Housing

Mounting

Max SCx

Weight

Productgroup Ambiente Power supply Integrated Input voltage 90 - 305 Vac | 127 - 431 VDC Frequency 47 - 63 Hz Input Power (default) 50 Watt Maximum allowed power (EU 53 Watt directive 2019/2020) Lumen output (up to) 5527 lm Efficacy (default) 110 lm/W Colour temperature (CCT) 5700 K Colour rendering index (CRI) 73+ Colour consistency 5 Macadam Ellipses Upward light ratio (ULR) < 1% LED-count 25 РММА Beam optics Wide area Diecast aluminium / tempered safety glass Suits straight and angled poles Pole diameter 48 - 60 mm Dimensions 644 x 303 x 132 mm Adjustable angle -5° to +10°, bended or straight poles EOS wireless technology Yes Motion sensor (PIR) Available Ingress protection IP65 Mechanical impact resistance IK08 0.0432 m<sup>2</sup> IEC safety class Т Power factor 0.96 typical AC harmonics Less than 10% THD compliant to EN55015 Inrush current 65 A 1.2 ms B-16A fuse 10 pcs C-16A fuse 14 pcs Operating temperature -40°C to +60°C Rated life (L80B10) 100,000+ hours 7.20 kg

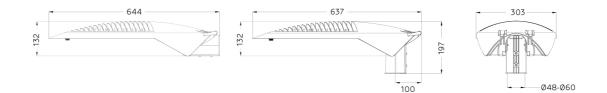


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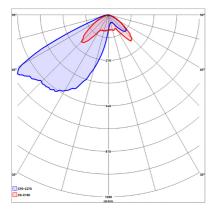
LED'S CONNECT THE FUTURE



#### Dimensions



## Optic



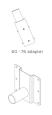
## Ordering information

Name	SKU	Optic	Power	Lumen	Efficacy	ССТ	CRI	Weight
Ambiente EOS2 Area 25 LED								
Ambiente 25LED 50W 3000K PIR	19381	Wide area	50 W	5527 lm	110 lm/W	3000 K	73+	7.20 kg
Ambiente 25LED 50W 4000K	16881	Wide area	50 W	5128 lm	102 lm/W	4000 K	83+	7.20 kg
Ambiente 25LED 50W 4000K PIR	19284	Wide area	50 W	5128 lm	102 lm/W	4000 K	83+	7.20 kg
Ambiente 25LED 50W 5700K	16882	Wide area	50 W	5527 lm	110 lm/W	5700 K	73+	7.20 kg
Ambiente 25LED 50W 5700K PIR	19380	Wide area	50 W	5527 lm	110 lm/W	5700 K	73+	7.20 kg
Ambiente EOS2 Area 40 LED								
Ambiente 40LED 70W 3000K	18609	Wide area	70 W	8122 lm	115 lm/W	3000 K	73+	7.20 kg
Ambiente 40LED 70W 3000K PIR	19379	Wide area	70 W	7558 lm	107 lm/W	3000 K	73+	7.20 kg
Ambiente 40LED 70W 4000K	16883	Wide area	70 W	7558 lm	107 lm/W	4000 K	83+	7.20 kg
Ambiente 40LED 70W 4000K PIR	19378	Wide area	70 W	7558 lm	107 lm/W	4000 K	83+	7.20 kg
Ambiente 40LED 70W 5700K	16884	Wide area	70 W	8122 lm	115 lm/W	5700 K	73+	7.20 kg
Ambiente 40LED 70W 5700K PIR	18626	Wide area	70 W	8122 lm	115 lm/W	5700 K	73+	7.20 kg



19376

#### Accessoires



15354 Ambiente. Pole adapter 76=>60mm. Galvanised steel.

Ambiente. Wall bracket. 110mm arm 0° angle. Steel (galvanized)



#### Compliances

IEC 60598-1 IEC 60598-2-3 +A1:2011 IEC 62471:2008 IEC 60068-2-52 EN 50102

EN 55015: 2013 EN 61000-3-2: 2014 EN 61000-3-3: 2013 Luminaires - Part 1: General requirements Luminaires - Part 2-3: Particular requirements – Luminaires for road and street lighting Photobiological safety of lamps and lamp systems Environmental tests - Salt mist Degree of protection by enclosures for electrical equipment against external mechanical impacts (IK Code) Emission - Electrical lighting and similar equipment Limits for harmonic currents emissions Limitation of voltage fluctuations and flicker

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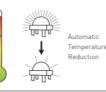




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#### SKU: 16884

Ambiente. A-Symm. Wide Beam. 40LED - NO. 70W default. 5700K. CRI73+. EOS.

#### Features

Optic

Housing

Max SCx

Weight

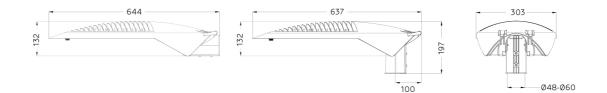
Productgroup Ambiente Power supply Integrated Input voltage 90 - 305 Vac | 127 - 431 VDC Frequency 47 - 63 Hz Input Power (default) 70 Watt Maximum allowed power (EU 77 Watt directive 2019/2020) Lumen output (up to) 8122 lm Efficacy (default) 115 lm/W Colour temperature (CCT) 5700 K Colour rendering index (CRI) 73+ Colour consistency 5 Macadam Ellipses Upward light ratio (ULR) < 1% LED-count 40 РММА Beam optics Wide area Diecast aluminium / tempered safety glass Mounting Suits straight and angled poles Pole diameter 48 - 60 mm Dimensions 644 x 303 x 132 mm Adjustable angle -5° to +10°, bended or straight poles EOS wireless technology Yes Motion sensor (PIR) Available Ingress protection IP65 Mechanical impact resistance IK08 0.0432 m<sup>2</sup> IEC safety class Т Power factor 0.96 typical AC harmonics Less than 10% THD compliant to EN55015 Inrush current 65 A 1.2 ms B-16A fuse 10 pcs C-16A fuse 14 pcs Operating temperature -40°C to +60°C Rated life (L80B10) 100,000+ hours 7.20 kg



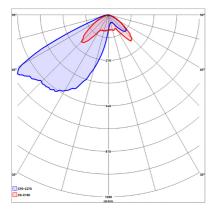
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#### Dimensions



## Optic



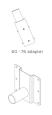
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#### Compliances

IEC 60598-1 IEC 60598-2-3 +A1:2011 IEC 62471:2008 IEC 60068-2-52 EN 50102

EN 55015: 2013 EN 61000-3-2: 2014 EN 61000-3-3: 2013 Luminaires - Part 1: General requirements Luminaires - Part 2-3: Particular requirements – Luminaires for road and street lighting Photobiological safety of lamps and lamp systems Environmental tests - Salt mist Degree of protection by enclosures for electrical equipment against external mechanical impacts (IK Code) Emission - Electrical lighting and similar equipment Limits for harmonic currents emissions Limitation of voltage fluctuations and flicker

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