

SPEC BOOK

Bartett Arboretum

UKLD LIGHTING DESIGN

Manta

The **Manta** exit sign range has been developed to provide a robust but attractive solution for exterior applications requiring effective safety signage.

Manta signs offer an excellent viewing distance of 30 metres via easy to change legends, a robust polycarbonate housing with ratings of IP65/IK08.

NB: Every sign is provided with a retro fittable second legend plate for ceiling or 'flagpost' wall mounted double sided installation.

The **Manta** Exit Sign features a robust polycarbonate enclosure and is supplied with 'clip-in' safety sign legend screens behind a clear cover. It also benefits from being supplied with a mounting bracket allowing ceiling or 'flagpost' wall installation options to the standard wall mount (single sided only).

The integral rechargeable batteries and charger/driver PCB are mounted in the central housing and the advanced wide angle white LEDs provide even and effective illuminance across the legend. Cable entries are provided into the back (single sided), top, and one side.

OPERATION

The **Manta** range is supplied as permanently Maintained operation as standard providing 3 hour duration. Clip-in pictogram legend panels complying with the EC Safety Signs Regulations and latest ISO sign requirements are supplied as a kit with each luminaire.

The bright and even luminance across the legend panel ensures maximum visibility in the event of an emergency.

Manta luminaires use the latest high efficiency, white LEDs, a 'smart' energy efficient battery charger/driver circuit and long-life Lithium Iron Phosphate batteries (LiFePO4).

NOTE: **Manta** luminaires can be equipped with **SurePath BLE** Bluetooth addressable Gateway modules. [See Data Sheet.](#)

The luminaires are designed to fully comply with the relevant parts of EN60598.2.22

DALI-2/Self-Test Options:

The **Manta** LED luminaires are supplied with integral Self-Test gear complying with BSEN62034. There is also a fully interoperable DALI-2 version available. Please note the Self-Test only luminaire only operates in maintained mode and does not have the facility to be used as a non-maintained luminaire. For this extra function please revert to the DALI-2 version which has Self-Test capability and allows non-maintained operation

NB: The addition of DALI-2 gear can create a slight shadow on one edge of the legend plate.

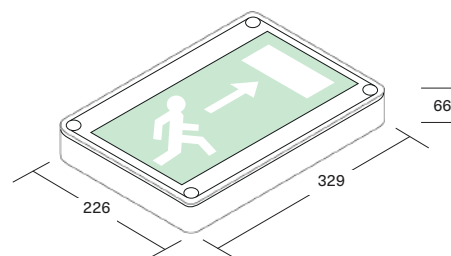


MAN/M3/ST/WH



GENERAL DETAILS

Product	LED Exit Sign
Light source	15 x white LEDs
Luminaire Lumens	N/A
Construction	Polycarbonate housing and double diffuser plus internal 'clip-in' safety legend screen
Geartray	Integral to base
Dimensions	329mm (L) x 226mm (W) x 66mm (H)
Cable entry	20mm knock-outs top, back and one end
Mounting	Wall mount (single sided only); Ceiling mount bracket; 'Flagpost' wall mount bracket — (bracket supplied)



Emergency Lighting Products Limited
Parbrook House, Gillmans Industrial Estate,
Natts Lane Billingshurst, West Sussex RH14 9EZ

Telephone: +44 (0) 1403 786601
Fax: +44 (0) 1403 786602
e-mail: sales@elp.uk.com

Safe in the knowledge
elp.uk.com



IP65 rated, single or double sided Exit Sign

Manta

SPECIFICATION

	/ST Maintained	/D2 Maintained
Light source	15 x wide angle white LEDs	
Colour temperature	4500K	
IP and IK rating	IP65 IK08	
Ambient temperature (Ta)	0°C to 25°C	
Insulation class	Class II	
Supply voltage	230V ~ 50Hz	
Supply power	3.5W	4.0W
Charge power (typical)	0.9W	1.1W
Battery	3.2V 1.5Ah LiFePO ₄	3.2V 3.2Ah LiFePO ₄
Weight	2.0kg	2.1kg



Every **Manta** sign is provided with a retro fittable second legend plate for ceiling or 'flagpost' wall mounted double sided installation.

ORDER CODES

Description

MAN/M3/ST/WH	Maintained self-test emergency LED exit sign luminaire
MAN/M3/D2/WH	Maintained DALI-2 emergency LED exit sign luminaire
MAN/230/WH	Mains only LED exit sign luminaire
MAN/230D/WH	DALI version of mains only LED exit sign luminaire
OPTIONS:	
/MT	Manual-test with DALI function disabled
/BLE	Wireless DALI emergency
LEGENDS:	NB: all versions are supplied
/ECAR	EC Format — Arrow Right
/ECAL	EC Format — Arrow Left
/ECAD	EC Format — Arrow Down
/ISOAR	ISO Format — Arrow Right
/ISOAL	ISO Format — Arrow Left
/ISOAU	ISO Format — Arrow Up
/ISOAD	ISO Format — Arrow Down

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Emergency



3 Hour Emergency

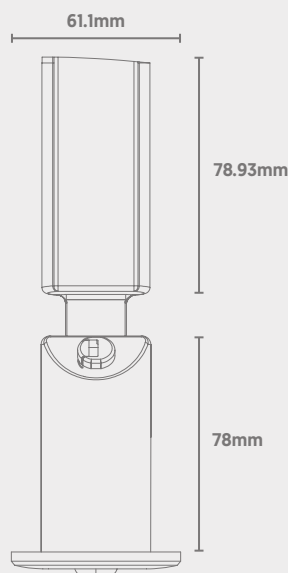


Discharge Protection

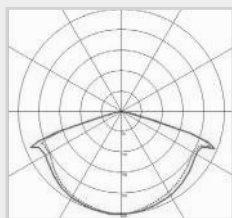


Lithium Iron Phosphate Battery

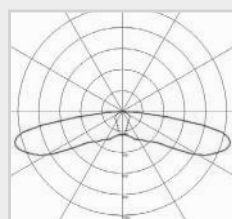
Dimensions



Photometric Data



Open Lens



Corridor Lens

QSpot Recessed

High-Output Recessed Downlight

CODE: Q-SPOT-3W/3H/L

QVIS[®]

LIGHTING & SECURITY



Power	Output	Lens Type	Testing	Duration
3W	250Lm	Open Lens	Push-Test (Manual)	3 Hours
	185Lm	Corridor Lens		

Technical

Input Voltage	AC 220-240V
Emergency Type	Non-Maintained
IP Rating	IP20
IK Rating	IK04
Operating Temp.	0 to +40°C
Mains Current	32mA
Mains Voltage Changeover Threshold	According to EN60598-2-22
Protection	Discharge
Colour Temperature	6000K
Battery Type	3.2V LiFePO ₄ ; 1500mAh
Charge Time	24 Hours
Cut Out	46mm
Dimensions	175mm x 61.1mm
Weight	0.156kg
MacAdam Step	<3
CE Standards	EN60598-1, EN 60598 2-22, EN62493, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62722-1, EN62722-2-1 and EN50581
CE Directives	LVD, EMC, ERP & RoHS



The Vesper 50W is a high-performance street light, available with options specifically designed for Smart City applications and to meet Dark Sky Compliance standards.

Expertly constructed from anti-corrosion die-cast aluminium with durable stainless steel fixings and toughened high-impact glass for enhanced longevity. Finished with a highly durable, corrosion-resistant polyester powder coating and fitted with an adjustable spigot for versatile side or column-top mounting.

Options available are Colour Temperature (2700K – 4000K), Beam Angle, DALI D4i Driver, 3/5pin NEMA Socket, Zhaga Book 18 4pin Socket, AstroDIM Driver, Spill Shield, Spigot Size/Adaptors, and any painted RAL colour finish.

Vesper 50W LED Street Light



LED Street Lighting



Features

- LED rating (Source lumens) 8,525Lm (4000K), 7,373Lm (3000K) and 7,139Lm (2700K).
- Luminaire flux (delivered lumens) 7,246Lm (4000K), 6,267Lm (3000K) and 6,068Lm (2700K).
- Total system watts 50cW.
- Luminaire efficacy up to 145Lm/cW.
- Colour temperature options available are 2700K, 3000K, 4000K.
- -20 to +40°C operating temperature.
- Control options available are DALI Driver, DALI D4i Nema Socket^{#3}, CMS Socket, Zhaga Book 18 4pin Sensor Socket^{#5}, AstroDIM Driver.
- Post-top or side-entry, 60mm / 76mm spigot options.
- Optional highway brackets, adaptors and wall mount brackets available.
- 5 year manufacturer's warranty.

Benefits

- IP66^{#4} / IK08 rated for robust durability in tough environments.
- LED Lifespan >100,000hrs L90B10.
- Osram LEDs and Osram Driver for trusted quality and reliability.
- LED and driver easily accessible via detachable two-part head.
- Recessed light source with less than 0.5% upward light ratio.
- Choice of optimised optics for high uniformity and maximum spacing between columns.
- Any painted RAL colour finish to match the project aesthetic.
- Optional Spill Shields for controlled light distribution.
- Compliant with Dark Skies recommendations (3000K + DALI control option).
- Bat & Insect friendly (2700K + DALI control option).

Painted Options



Kelvin Options



^{#1} 3000K + DALI control / dimmable option.

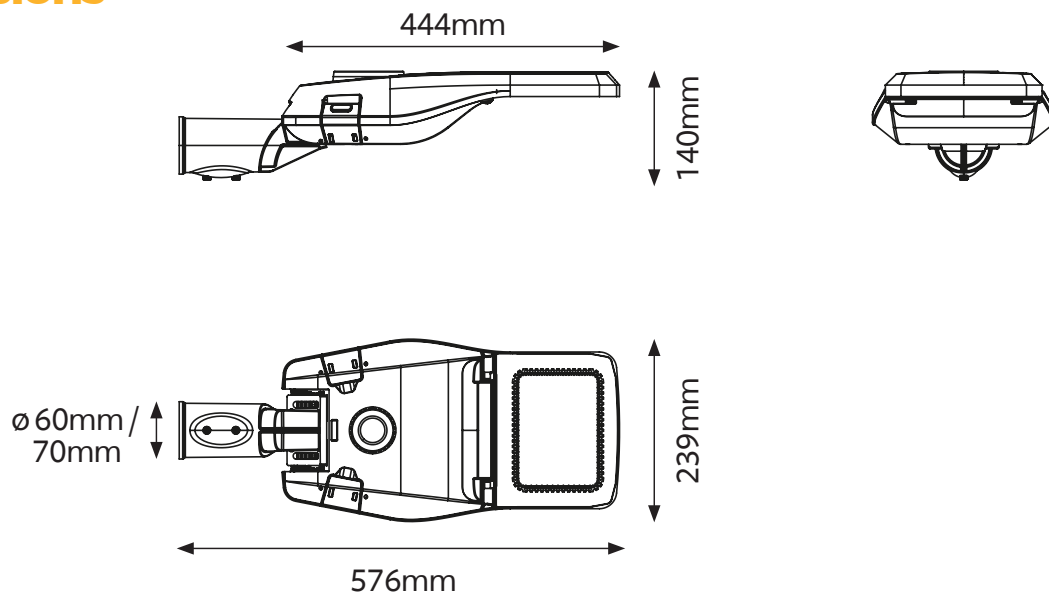
^{#2} 2700K + DALI control / dimmable option.

^{#3} Photocell not included, order code LIT-0010.

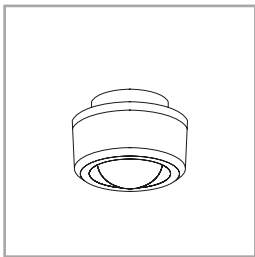
^{#4} IP65 with Nema/Zhaga.

^{#5} Sensor not included, order code LIT-0146.

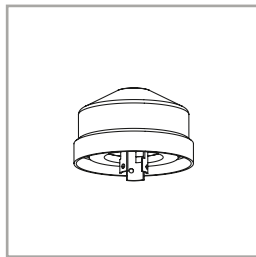
Dimensions



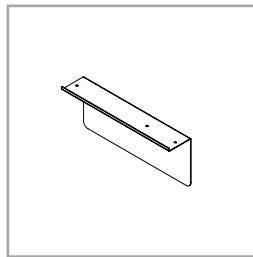
Add-Ons



Zhaga Motion Sensor, to order, use code LIT-0146.



NEMA Photocell (70 Lux), to order, use code LIT-0010.



Front, Rear, and Side Spill Shields available, contact sales for information.

Applications



Footpaths



Public Areas



Residential Roads



Housing Estates

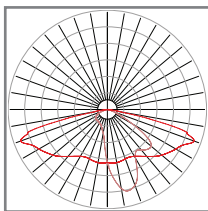


Car Parks

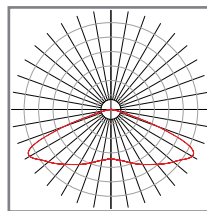
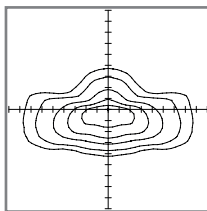


Rural Areas

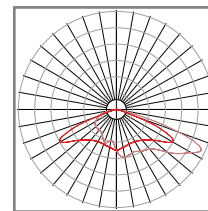
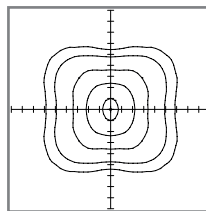
Photometric Data



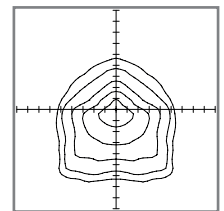
Optic 1 - Type II/III (long) beam for very wide pole to pole distances. Ideal for pedestrian paths and residential roads.



Optic 2 - IESNA Type V (circular 360°) beam for wide area lighting such as car parks.



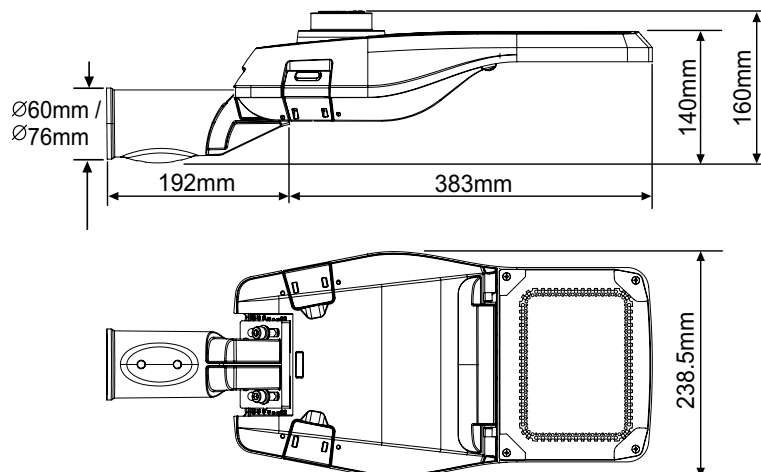
Optic 3 - Wide IESNA Type IV forward-throw beam for wide area lighting like loading bays and transport yards.



NB: photometric images are indicative.

Need a Lighting Design?

We offer a free of charge design service, contact our team today: studio@gemmalighting.com.

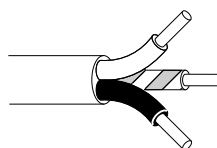


Power (W)	kg	Windage - Surface (m ²)
8 - 60	6	0.05

Mains Cable (Ordered Separately):

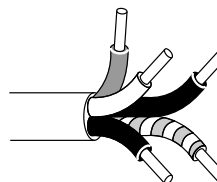
Standard 3-Core Mains Cable:

CAB-AC-VESPER-5 = 5m Cable
CAB-AC-VESPER-10 = 10m Cable
CAB-AC-VESPER-15 = 15m Cable

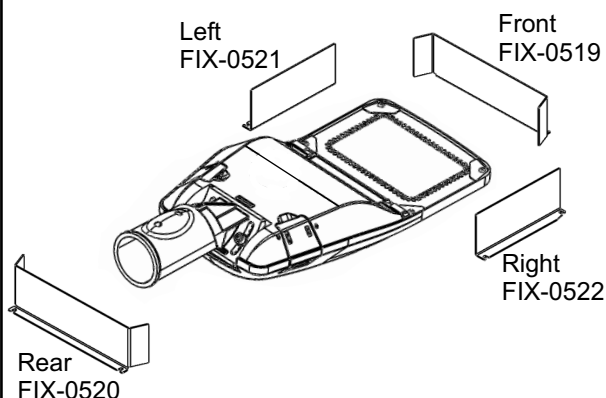


Dali 5-Core Mains With Dali Cable:

CAB-AC-VESPER-DALI-5 = 5m Cable
CAB-AC-VESPER-DALI-10 = 10m Cable
CAB-AC-VESPER-DALI-15 = 15m Cable

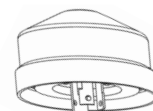


Glare Shield Options (Ordered Separately):



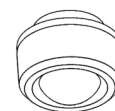
Photocell Node (Ordered Separately):

LIT-0010 - Nema AC Photocell



Zhaga Motion Sensor (Ordered Separately):

LIT-0146 - Standard PIR (LIT-0010 Is Also Required)



LIT-0155 - Intelligent Daylight PIR

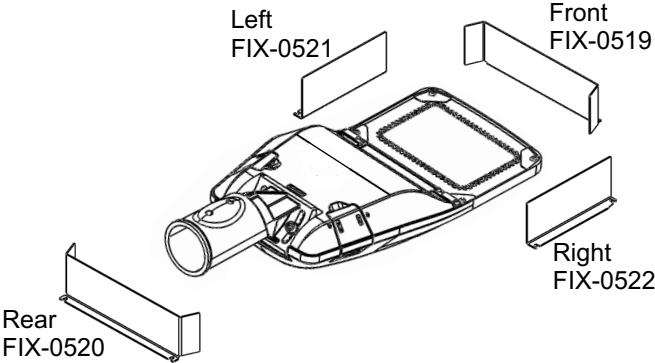
Motion Sensor Remote Control (Ordered Separately):

Note: Battery's Are Not Included (2xAAA).

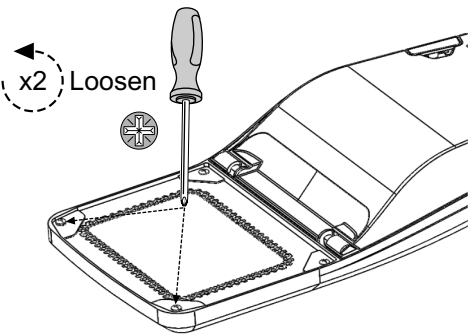
LIT-0149 - For Zhaga Zhaga Motion Sensor LIT-0146

LIT-0156 - For Zhaga Zhaga Motion Sensor LIT-0155

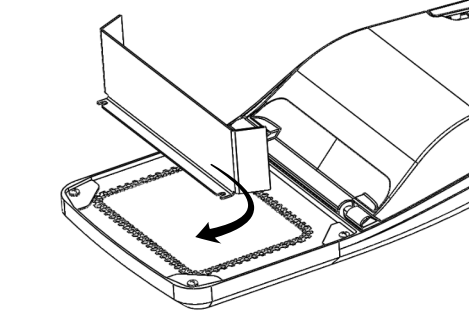




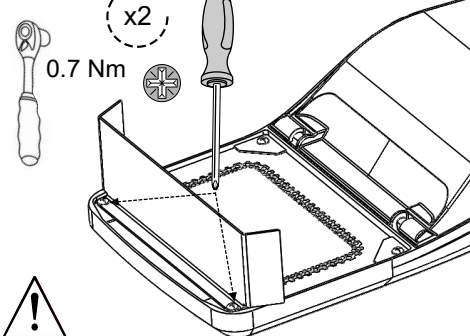
1 FIX-0519 - Front Glare Shield



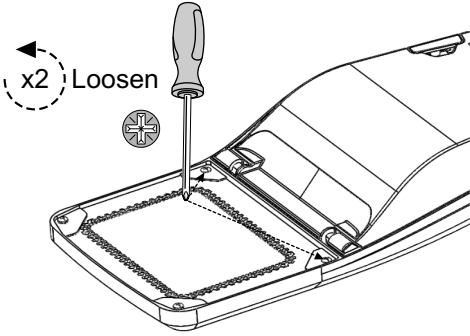
2



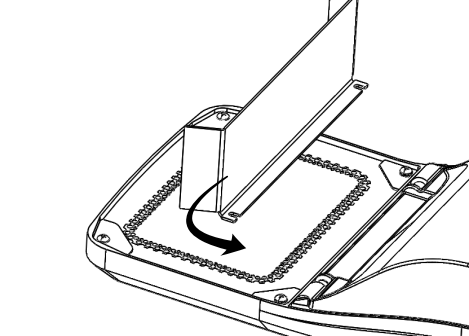
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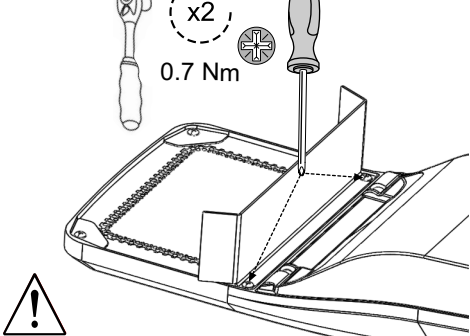
1 FIX-0520 - Rear Glare Shield



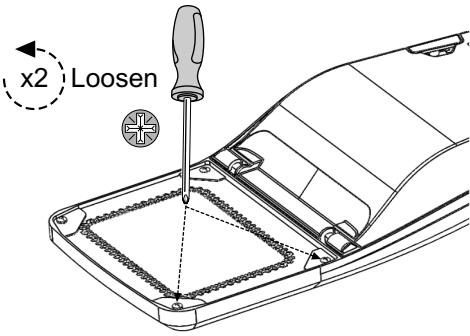
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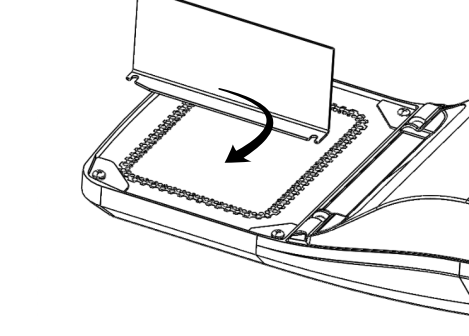
3



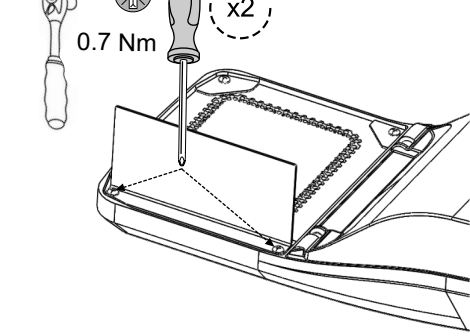
1 FIX-0521 - Left Glare Shield



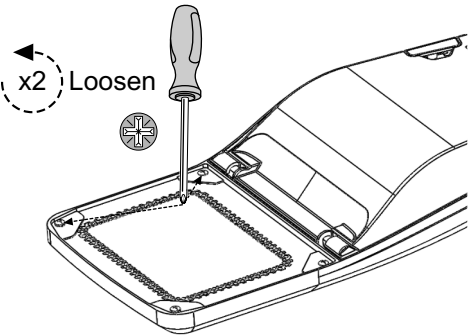
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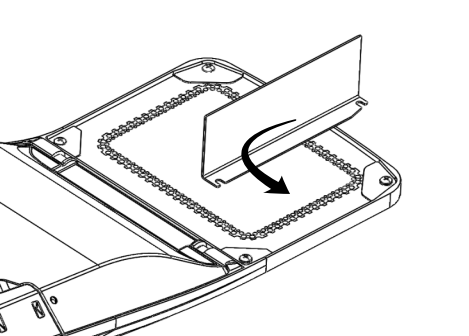
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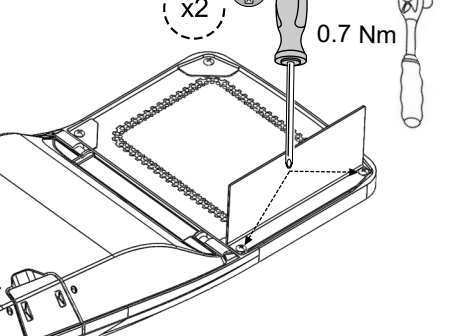
1 FIX-0522 - Right Glare Shield



2



3





The Mayfair 20W is the perfect combination of aesthetic appeal and optimum illumination performance with an IP65 - IK08 rating.

Manufactured in the UK with the latest Osram LEDs and a choice of 4 optics to create the perfect lighting design.

Options available are Colour Temperature, Beam Angle, DALI, Mini Photocell, 3hr Emergency, AstroDIM, Spill Shield, and any painted RAL colour finish.

Mayfair 20W LED Wall Light



LED Wall Mounted Lighting



Features

- LED rating (Source lumens) 3,019Lm (4000K / 6000K), 2,611Lm (3000K) and 2,528Lm(2700K).
- Luminaire flux (delivered lumens) 2,717Lm (4000K / 6000K), 2,350Lm (3000K) and 2,276Lm(2700K).
- Total system watts 20cW.
- Luminaire efficacy up to 160Lm/cW.
- -20 to +40°C operating temperature (Emergency 0 to +40°C).
- Colour temperature options available are 2700K, 3000K, 4000K, 6000K.
- Control options available are DALI, Mini-Photocell, AstroDIM, and 3hr Emergency.
- Emergency Mode BLF 50%.
- Optional column clamp bracket, flush wall bracket, or 300mm outreach arm bracket available separately.
- 5 Year Manufacturer's Warranty.

Benefits

- IP65 / IK08 rated for robust durability in tough environments.
- LED Lifespan >100,000hrs L90B10.
- Osram LEDs and Osram Driver for trusted quality and reliability.
- Easy access to LED and Driver via a removable base plate for simple maintenance.
- Luminaire body made of die-cast aluminium for robust durability.
- Choice of 4 optics for the perfect lighting design.
- Optional Spill Shield (FIX-0488) for controlled light distribution.
- Any painted RAL colour finish to match project aesthetics.
- Recessed light source for less than 0.5% upward light ratio.
- Compliant with Dark Skies recommendations^{#1}.
- Bat & Insect friendly^{#2}.

Painted Options



Kelvin Options



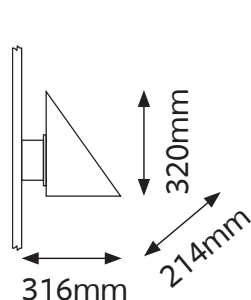
^{#1} 3000K + DALI control / dimmable option.

^{#2} 2700K + DALI control / dimmable option.

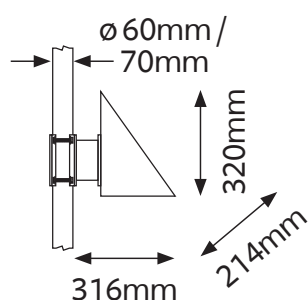
* 5 Year Manufacturer's Warranty.

Technical Details

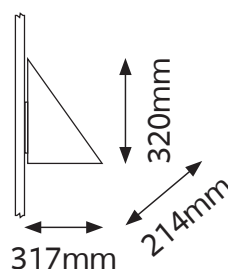
Dimensions



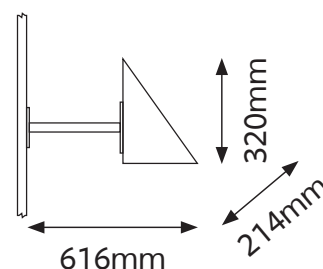
Stand-off Bracket (supplied).



Column Clamp Bracket. To be ordered separately, Code: FIX-0440.

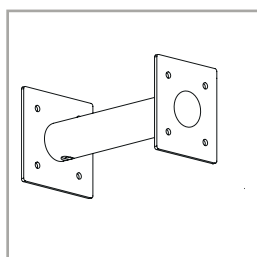


Flush Bracket. To be ordered separately, Code: FIX-0485.

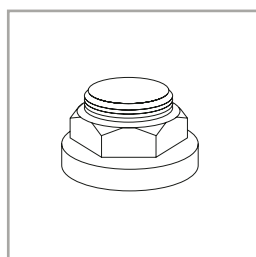


300mm Outreach Arm. To be ordered separately, Code: FIX-0476.

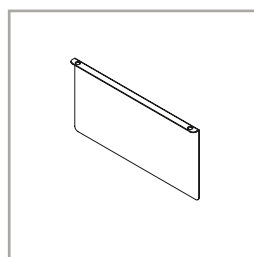
Add-Ons



Bracket Mounts available, contact sales for information.



Integral Mini-Photocell option change code from '00' to '04'.



Spill Shields available, contact sales for information.

Applications



Pathways



Office Buildings



Perimeter Lighting



Walkways

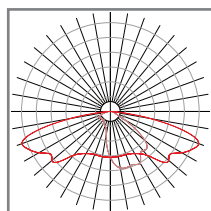


Security

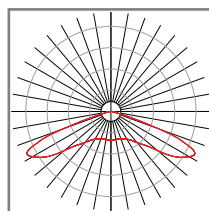
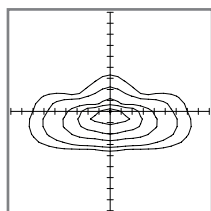


Amenity Areas

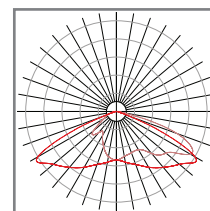
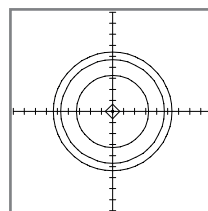
Photometric Data



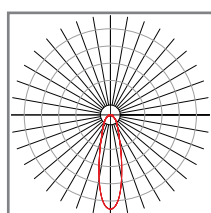
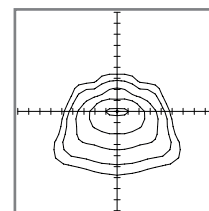
Optic 1 - Type II/III (long) beam for very wide pole to pole distances. Ideal for pedestrian paths & residential roads.



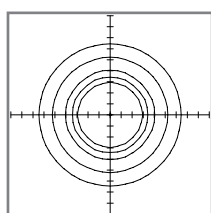
Optic 2 - IESNA Type V (circular 360°) beam for wide area lighting such as car parks.



Optic 3 - Wide IESNA Type IV forward-throw beam for wide area lighting like car parks, play areas, yards & bays.



Optic 4 - 30° spot beam for architectural effect.



NB: photometric images are indicative.

Need a Lighting Design?

We offer a free of charge design service, contact our team today: studio@gemmalighting.com.



High quality wall light with both down only and up and down lighting options for versatility, and available in three sizes to cover a variety of applications.

- Die-cast aluminium base with extruded aluminium body.
- Super white tempered glass lens offering high visual comfort.
- UV protected pure polyester powder coated housing offering high corrosion resistance.
- High quality LED chips and driver.
- Up and down and down only lighting options.
- RAL9005, other RAL colours available on request.



Product Specification

CODE	OPTIC	LED Qty	CCT	LUMENS	CRI	POWER	IP	IK	WEIGHT
GAZ-L40-D	36°	1	4000	4000	>70	40W	IP65	IK08	5.4
GAZ-L80-UD	36°	2	4000	8400	>70	80W	IP65	IK08	5.7

General Specification

Input voltage	100-240V
Input frequency	50/60Hz
Surge protection	0.5KV
LED Chips	Cree COB
Lifetime	L70 >127,000hours L80 86,000 hours L90 37,000 hours
SDCM	SDCM<6
Class	Class I
Ambient temperature	-20°C to +50°C
Material	High pressure die-cast aluminium housing with tempered glass
Finish	Polyester powder coat cured under heat
RAL colour	RAL9005

Driver Details

Product	GAZ-L40-D	GAZ-L80-UD
Driver	Yiguang	
Dimming control	/	
Driver current	930mA	930mA
Inrush current	<35A	<35A
Power factor	0.95	0.95

Single Colour - 10W Per Metre
FLS3 - XXXXX



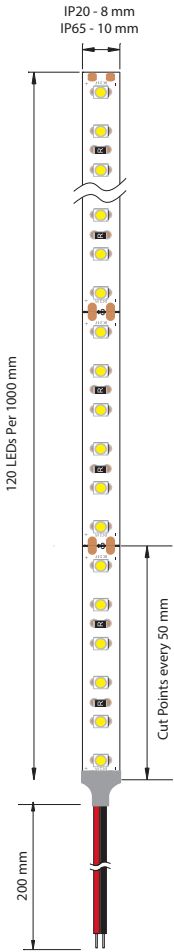
ECO



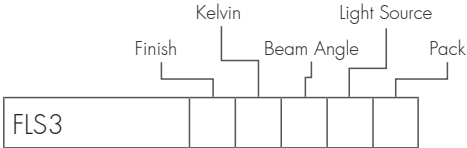
- IP65
- IP20
- DC 24V
- LM 80
- Single Binning
- CRI 92+
- Dimmable
- 3 Step Macdams
- 5 Year

Our ECO SERIES 10W per metre LED Strip features branded high efficiency 2835 SMD LEDs on a 2oz PCB board for a durable finish.

Easy mounting thanks to added strength (3M 300LSE) self adhesive and backed up by a 3 year standard and 5 year Extended Manufacturer's Warranty.



Product Reference:



FLS3	Finish	Kelvin	Beam Angle	Light Source - Per Metre	Pack
	0 IP20	G 2700K	1 120°	S3 780 - 900 lm/10w Blue 165lm / MCD Conversion	1 5 metre Reel
	5 IP65	C 3000K			2 10 metre Reel
	8 IP68	N 4000K			
		D 6500K			
		B Blue			

Client

Date

Project Ref

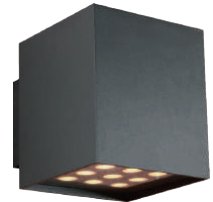
Product Ref

Quantity



High quality square wall light with both down only and up and down lighting options for versatility, and available in two sizes to cover a variety of applications.

- Die-cast aluminium base with extruded aluminium body.
- Super white tempered frosted glass lens offering high visual comfort.
- UV protected pure polyester powder coated housing offering high corrosion resistance.
- High quality LED chips and driver.
- Up and down and down only lighting options.
- RAL9005, other RAL colours available on request.



Optics

TP25



$\alpha 25^\circ$

Product Specification

CODE	OPTIC	LED Qty	CCT	LUMENS	CRI	POWER	IP	IK	WEIGHT
ASS-S10	TP25	4	3000	990	>70	10W	IP65	IK08	1.5
ASS-S20	TP25	8	3000	2300	>70	20W	IP65	IK08	1.7
ASS-M23	TP25	9	3000	2350	>70	23W	IP65	IK08	2.7
ASS-M36	TP25	18	3000	4100	>70	36W	IP65	IK08	3.3

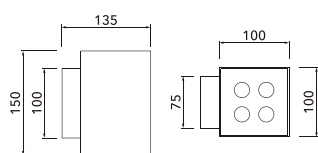
General Specification

Input voltage	100-240V
Input frequency	50/60Hz
Surge protection	0.5KV
LED Chips	CREE XTE
Lifetime	L70 >65,000hours L80 >65,000 hours L90 >65,000 hours
SDCM	SDCM<6
Class	Class I
Ambient temperature	-20°C to +50°C
Material	High pressure die-cast aluminium housing with tempered glass
Finish	Polyester powder coat cured under heat
RAL colour	RAL9005

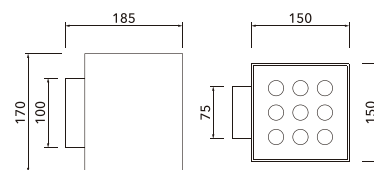
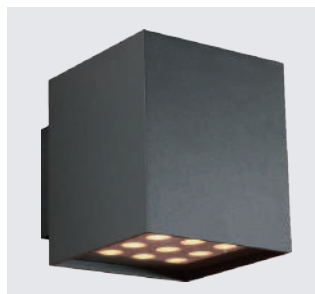
Driver Details

Product	ASS-S10	ASS-S20	ASS-M23	ASS-M36
Driver	Ealgerise			
Dimming control	Non Dimmable			
Driver current	700mA	700mA	700mA	600mA
Inrush current	30A MAX	20A MAX	20A MAX	20A MAX
Power factor	>0.9	>0.9	>0.9	>0.9

Dimensions



ASS-S



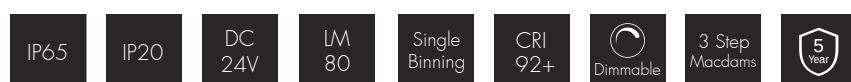
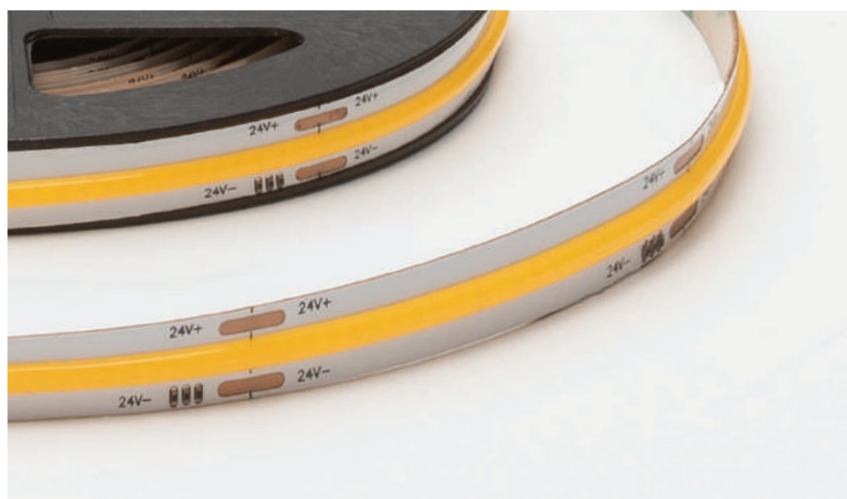
ASS-M

Single Colour COB LINEAR - 5W Per Metre

FLSCB1 - XXXXX

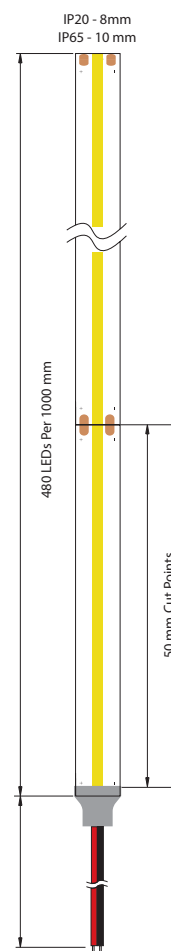


LINEAR

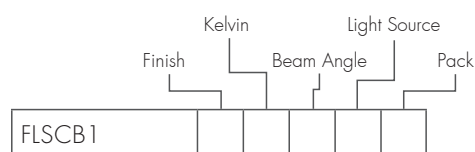


Our COB Series Strips are designed to offer a dotless Linear finish in a all applications, this 5W per metre model features 480 SMD LEDs on a 2oz PCB board for a durable finish.

Easy mounting thanks to added strength (3M 300LSE) self adhesive and backed up by a 3 year standard and 5 year Extended Manufacturer's Warranty.



Product Reference:



FLSCB1	Finish	Kelvin	Beam Angle	Light Source - Per Metre	Pack
	0 IP20	G 2700K	1 120°	CB1 490 - 545 lm/5w	1 5 metre Reel
	5 IP65	C 3000K			2 10 metre Reel
	8 IP68	N 4000K			

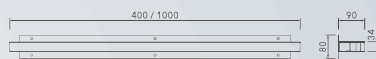
Client

Date

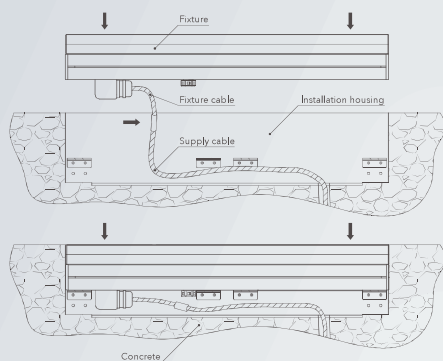
Project Ref

Product Ref

Quantity



HIB



High quality inground luminaire available in two sizes and suitable for a range of applications including uplighting of buildings and objects as well as generic open areas as walkover lights.

- 304 grade stainless steel housing and installation sleeve.
- Crystal clear 10mm tempered glass cover, the luminaire can withstand loads of 5000kg.
- Specially designed optics for optimum light distribution and low glare.
- Simple snap-in installation with hidden connections.
- Oil and water resistant with anti-slip glass.
- High quality LED chips, and DC 24V input for fixed output and DMX control options.
- All external screws are 304 stainless steel.



L=400mm / P=9W



L=1000mm / P=23W

CODE		POWER	LED PCS	CCT	LUMEN OUTPUT	CRI	BEAM ANGLE	IP	IK	WARRANTY
HIB-9-L40		9W	49	4000	450	>70	120°	IP68	IK10	5 year
HIB-23-L100		23W	126	4000	1200	>70	120°	IP68	IK10	5 year

THANK YOU

Please don't hesitate to contact your appointed project
manager with any questions.

UKLED LIGHTING DESIGN