

***Aldridge***  
***Lighting Systems***

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**STREET & ROADWAY LIGHTING**

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# REXEL /ALDRIDGE LIGHTING SYSTEMS (ALS) HAS THE ROADWAY LIGHTING SOLUTION

Both vehicle and pedestrian lighting require precise luminaire performance as defined in the Australian Standard AS/NZS1158 defined as category "V" (Vehicles) and category "P" (Pedestrians). Applications include major arterial roads, freeways, tunnels and underpasses, major intersections and low traffic urban roads, pedestrian areas and car parks.

Rexel Lighting / ALS has the technology and experience to achieve the required illumination results for safe night time motoring – in all road conditions.

For over the past 35 years we have been involved with some of the most prominent roadway lighting projects in Australia.

Our fittings use the latest technology and can be customised to provide the most effective and efficient lighting schemes – using specific luminaires with specific photometric performance.

We can provide all luminaire performance information in electronic format, including intensity data, isolux diagrams, spacing tables and computer programs to help with the design process.

And with technical lighting offices in each mainland capital city and 87 branches nationally, Rexel's / ALS's support and service is always close on hand.

This comprehensive brochure will make it easy to identify your product options and to match our luminaire and lamp technology for your specific needs.

For more information contact a Rexel Lighting / ALS Consultant today – we have the ideal solution for your next roadway lighting project.

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# OPTISPAN MAJOR MKII



**Semi-cut off**

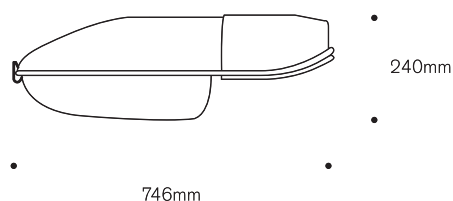


**Aeroscreen**

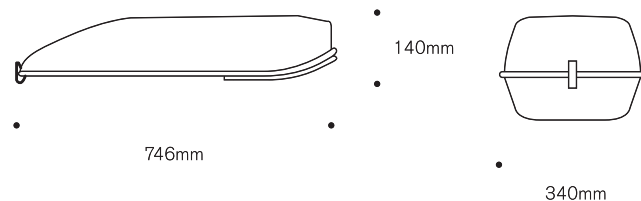


## PRODUCT DIMENSIONS

**Semi-cut off**



**Aeroscreen**



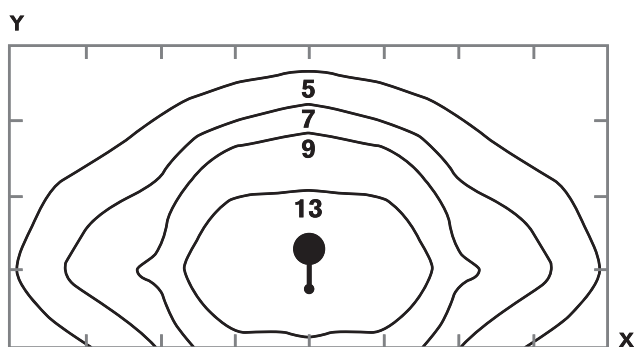
## FEATURES

- Optispan fittings are designed to meet all Australian major road lighting standards
- A robust design die-cast aluminium body with either standard lens or Aeroscreen flat glass
- Suitable for HID lamps up to 400W
- Optispan MK II luminaires include a hinged top access control gear cover for easy accessibility for product maintenance
- Optispan Aeroscreen features a flat glass lens with tubular HID lamps, for low glare performance. Suitable around airports and highway flyovers or where stray lights could be hazardous

## APPLICATIONS

- Freeway Access Ramps
- Arterial Roads
- Major Intersections
- Highways
- Dual Carriageways
- Bridges
- Roundabouts
- Security

## PHOTOMETRIC DESIGN DATA



### Horizontal illumination – OPTISPAN OPN150SG

Mounting height – 10.5m

Area – 40m x 20m

X increments – 5.0m

Y increments – 5.0m

Plane height – 0.0m

Aiming angle – 5°

**Windage** – 0.133m<sup>2</sup>

**Weight** – 9.00kg

Wired to AS3137 and EMC approved

Fits 32mm nominal bore pipe bracket or 40mm as an option.

PE model complete with PE base only



## SPECIFICATION

Lamp, PE cell and bracket ordered separately, D2 base fitted in PE models

Product Reference	Wattage	Control Gear Type	Lamp Reference	Diffuser Type	IP Rating	Windage Area m <sup>2</sup>	Pipe Entry Size mm	PE Cell Type	Electrical Characteristics		
									HPF	Line Start	Line Run
OPNSCNG	N/A	No Control Gear	N/A	Acrylic	IP65 - IP24	0.133	32NB - 40NB	No	N/A	N/A	N/A
OPNAENG	N/A	No Control Gear	N/A	Flat Glass	IP65 - IP24	0.133	32NB - 40NB	No	N/A	N/A	N/A
OPN100SG	100W	HPS/MH	NAVT100SUPER/ HCI-TT100/83	Acrylic	IP65 - IP24	0.133	32NB - 40NB	No	0.9	0.68A	0.52A
OPN150SG	150W	HPS/MH	NAVT150/HCI-TT150/83	Acrylic	IP65 - IP24	0.133	32NB - 40NB	No	0.9	1.00A	0.78A
OPN250SG	250W	HPS/MH	NAVT250/HQIT250/D	Acrylic	IP65 - IP24	0.133	32NB - 40NB	No	0.9	1.60A	1.28A
OPN400SG	400W	HPS/MH	NAVT400/HQI-BT400/D	Acrylic	IP65 - IP24	0.133	32NB - 40NB	No	0.9	2.80A	2.02A
OPN100SPEG	100W	HPS/MH	NAVT100SUPER/ HCI-TT100/83	Acrylic	IP65 - IP24	0.133	32NB - 40NB	MONOSTAR2I	0.9	0.68A	0.52A
OPN150SPEG	150W	HPS/MH	NAVT150/HCI-TT150/83	Acrylic	IP65 - IP24	0.133	32NB - 40NB	MONOSTAR2I	0.9	1.00A	0.78A
OPN250SPEG	250W	HPS/MH	NAVT250/HQIT250/D	Acrylic	IP65 - IP24	0.133	32NB - 40NB	MONOSTAR2I	0.9	1.60A	1.28A
OPN400SPEG	400W	HPS/MH	NAVT400/HQI-BT400/D	Acrylic	IP65 - IP24	0.133	32NB - 40NB	MONOSTAR2I	0.9	2.80A	2.02A
OPN100SAEG	100W	HPS/MH	NAVT100SUPER/ HCI-TT100/83	Flat Glass	IP65 - IP24	0.094	32NB - 40NB	No	0.9	0.68A	0.52A
OPN150SAEG	150W	HPS/MH	NAVT150/HCI-TT150/83	Flat Glass	IP65 - IP24	0.094	32NB - 40NB	No	0.9	1.00A	0.78A
OPN250SAEG	250W	HPS/MH	NAVT250/HQIT250/D	Flat Glass	IP65 - IP24	0.094	32NB - 40NB	No	0.9	1.60A	1.28A
OPN400SAEG	400W	HPS/MH	NAVT400/HQI-BT400/D	Flat Glass	IP65 - IP24	0.094	32NB - 40NB	No	0.9	2.80A	2.02A
OPN100SPEAEG	100W	HPS/MH	NAVT100SUPER/ HCI-TT100/83	Flat Glass	IP65 - IP24	0.094	32NB - 40NB	MONOSTAR2I	0.9	0.68A	0.52A
OPN150SPEAEG	150W	HPS/MH	NAVT150/HCI-TT150/83	Flat Glass	IP65 - IP24	0.094	32NB - 40NB	MONOSTAR2I	0.9	1.00A	0.78A
OPN250SPEAEG	250W	HPS/MH	NAVT250/HQIT250/D	Flat Glass	IP65 - IP24	0.094	32NB - 40NB	MONOSTAR2I	0.9	1.60A	1.28A
OPN400SPEAEG	400W	HPS/MH	NAVT400/HQI-BT400/D	Flat Glass	IP65 - IP24	0.094	32NB - 40NB	MONOSTAR2I	0.9	2.80A	2.02A

### Accessories

OPNSCKIT Semi-cutoff Diffuser & S/S Clip Kit

OPNAEKIT Aeroscreen Diffuser & Clip Kit

OPNPMGT150S 150W HPS/MH Gear Tray Pole Mounted

OPNPMGT250S 250W HPS/MH Gear Tray Pole Mounted

OPNPMGT400S 400W HPS/MH Gear Tray pole mounted

# OPTISPAN MINOR MKII

IP65



**Semi-cut off**

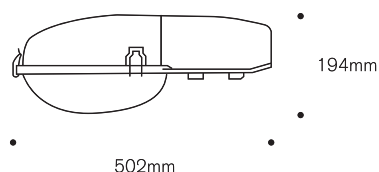


**Aeroscreen**

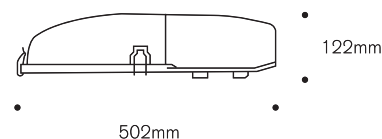


## PRODUCT DIMENSIONS

**Semi-cut off**



**Aeroscreen**



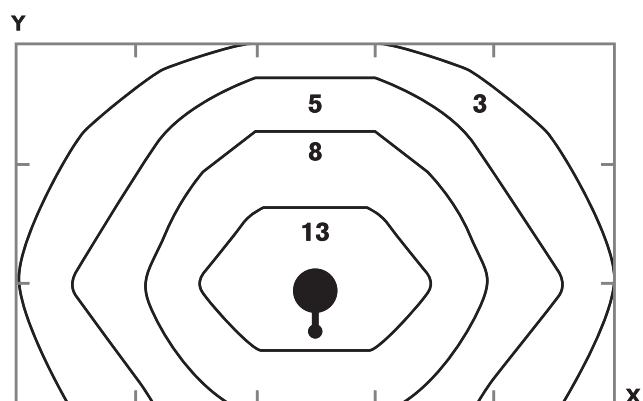
## FEATURES

- Optispan Minor is a robust die cast aluminium fixture available in standard or Aeroscreen versions for HID lamps up to 125W. It is ideal for both minor road lighting and industrial security lighting situations
- Optispan MKII luminaires include a hinged top access control gear cover for easy accessibility for product maintenance

## APPLICATIONS

- Suburban roads
- Driveways
- Walkways
- Security Lighting
- Marinas

## PHOTOMETRIC DESIGN DATA



### Horizontal illumination - OPTISPAN OPNM125MV

Mounting height – 7.5m

X increments – 5.0m

Plane height – 0.0m

**Windage** – 0.062m<sup>2</sup>

**Windage** (Aeroscreen) – 0.046m<sup>2</sup>

Wired to AS3137 and EMC approved

Fits 25mm nominal bore pipe bracket or 32mm as an option.

Area – 25m x 15m

Y increments – 5.0m

Aiming angle – 5°

**Weight** – 5.4kg

## SPECIFICATION

Lamp, PE cell and bracket ordered separately, D2 base fitted in PE models

Product Reference	Wattage	Control Gear Type	Lamp Reference	Diffuser Type	IP Rating	Windage Area m <sup>2</sup>	Pipe Entry Size mm	PE Cell Type	Electrical Characteristics		
									HPF	Line Start	Line Run
OPNM42PLPERX	42W	Compact Fluorescent	T/E 42W/840 CONSTANT	Acrylic	IP65 - IP24	0.0723	25NB	HTA002Mk2	0.97	n/a	200mA
OPNM80MVPERX	80W	Mercury Vapour	HQL800W	Acrylic	IP65 - IP24	0.0723	25 NB	HTA002Mk2	0.9	756mA	433mA
OPNM125MVPERX	125W	Mercury Vapour	HQL125W	Acrylic	IP65 - IP24	0.0723	25 NB	HTA002Mk2	0.9	1.13A	650mA
OPNM70SPERX	70W	HPS/MH	NAVE70I/HQIE70WNDL	Acrylic	IP65 - IP24	0.0723	25 NB	HTA002Mk2	0.9	510mA	398mA
OPNM42PLPEAERX	42W	Compact Fluorescent	T/E 42W/840 CONSTANT	Flat Glass	IP65 - IP24	0.0723	25NB	HTA002Mk2	0.97	n/a	200mA
OPNM80MVPEAERX	80W	Mercury Vapour	HQL80W	Flat Glass	IP65 - IP24	0.0612	25 NB	HTA002Mk2	0.9	756mA	433mA
OPNM125MVPEAERX	125W	Mercury Vapour	HQL125W	Flat Glass	IP65 - IP24	0.0612	25 NB	HTA002Mk2	0.9	1.13A	650mA
OPNM70SPEAERX	70W	HPS/MH	NAVE70I/HQIE70WNDL	Flat Glass	IP65 - IP24	0.0612	25 NB	HTA002Mk2	0.9	510mA	398mA

Accessories	
OPNMSCKIT	Semi-cutoff Diffuser & S/S Clip Kit
OPNMAEKIT	Aeroscreen Glass & S/S Clip Kit
UMB025	Universal Mounting Bracket 25mm OD

# BOSTON SERIES 2

IP65

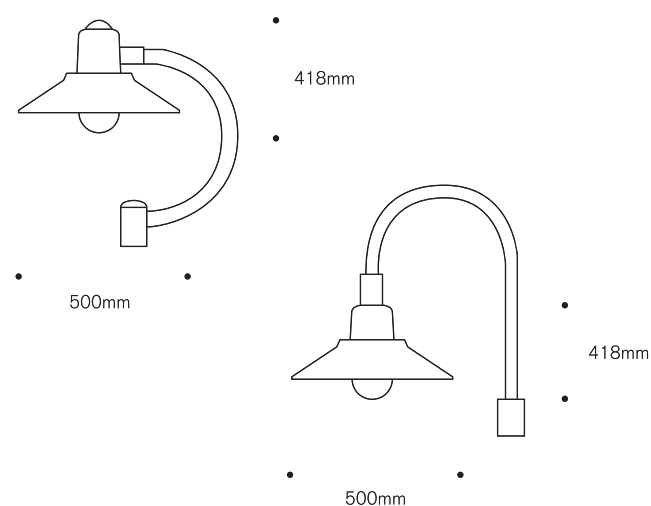


**Boston SE**



**Boston TE**

## PRODUCT DIMENSIONS



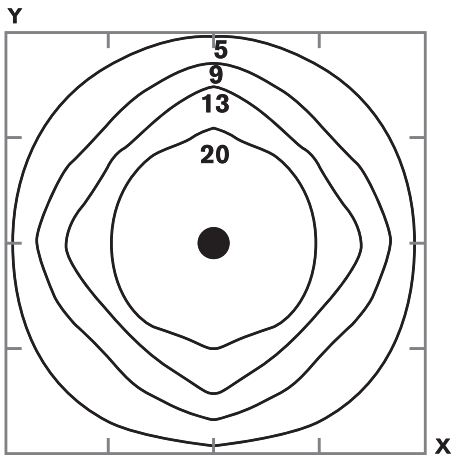
## FEATURES

- Traditional shape lanterns suitable for older urban areas and streetscapes
- The lantern reflector design eliminates unwanted upward light, providing higher illumination at ground level
- Optics in the standard lantern consists of a moulded clear acrylic diffuser
- Optional refractors available for asymmetric and symmetric lighting distribution
- Lantern body canopy is made from spun aluminium and painted with ASG11 green finish
- Option of two post top mounting brackets if required: Boston – side entry, Boston – top entry
- Control gear is integrally mounted to suit lamps up to 125W
- Standard lanterns are integrally ballasted

## APPLICATIONS

- Suburban roads
- Walkways
- Driveways
- Shopping Malls
- School Grounds
- Parklands

## PHOTOMETRIC DESIGN DATA



### Horizontal illumination – BOSTON BOS-70WS

Mounting height – 3.5m

Area – 16m x 16m

X increments – 4.0m

Y increments – 4.0m

Plane height – 0.0m

### Illumination conversion factors for different heights

Height	Multiply	Height	Multiply
3.0m	: 1.36	4.0m	: 0.77
3.5m	: 1.00	4.5m	: 0.61

Pole spigot size = 76mm O.D.

## SPECIFICATION

Lamp, PE cell and bracket ordered separately. Options to be ordered as per suffix codes.

Product Reference	Wattage	Control Gear Type	Lamp Reference	Diffuser Type	IP Rating	Colour	Pipe Entry Size mm	PE Cell Type	Electrical Characteristics		
									HPF	Line Start	Line Run
BOS-42CFL	42W	Compact Fluorescent	T/E 42W/840 CONSTANT	Acrylic	IP65-IP44	Green/Black	TBA	OPT	0.97	n/a	200mA
BOS-80MV	80W	Mercury Vapour	HQL80W	Acrylic	IP65-IP44	Green/Black	TBA	OPT	0.9	756mA	433mA
BOS-125MV	125W	Mercury Vapour	HQL125W	Acrylic	IP65-IP44	Green/Black	TBA	OPT	0.9	1.13A	650mA
BOS-70WS	70W	HPS/MH	NAVE70I/ HQIE70WNDL	Acrylic	IP65-IP44	Green/Black	TBA	OPT	0.9	510mA	398mA

### Accessories

BOS-ACD Boston Acrylic Clear Diffuser

BOS-BKT-SE Boston side entry bracket mounting 76mm NB

BOS-BKT-TE Boston top entry mounting bracket 76mm NB

### Suffix Codes

GRN Green

BLK Black

TE Top Entry

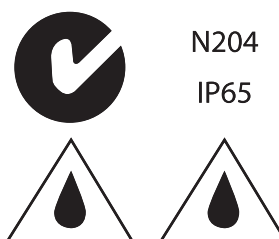
SE Side Entry

PE PE Cell Base

# GREENLIGHT



## APPROVALS AND SPECIFICATIONS



## DESCRIPTION

- Class 1 exterior luminaire
- Rated Voltage: 198-254V, 50-60Hz, DC 176-254V
- Body Material: LM20 Marine grade cast aluminium
- Diffuser Material: Acrylic, attached by 6 S/S spring clips
- IP Rating: Lamp and gear IP65, Terminal IP24
- Operating Environment: Road and area lighting

## FEATURES

- Specifically designed to meet the requirements for residential road lighting standards
- A compact and aesthetic modern fitting
- Made with a die-cast aluminium body and a clear acrylic diffuser
- Utilises T5 fluorescent technology offering energy savings over conventional Mercury Vapour lamps
- Available with PE cell

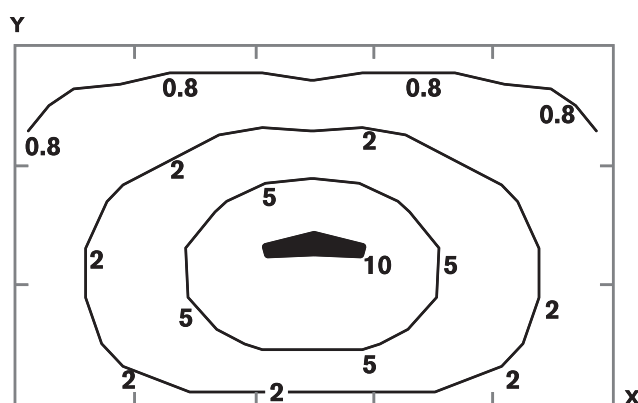
## MOUNTING

- Luminaire is to be mounted on a 27mm to 35mm OD (20mm to 25mm NB) spigot

## APPLICATIONS

- Suburban roads
- Driveways
- Walkways
- Security Lighting

## PHOTOMETRIC DESIGN DATA



### Horizontal illumination – GL 2x14T5

Mounting height – 5.0m

X increments – 5.0m

Plane height – 0.0m

Windage – 0.117m<sup>2</sup>

Area – 25m x 15m

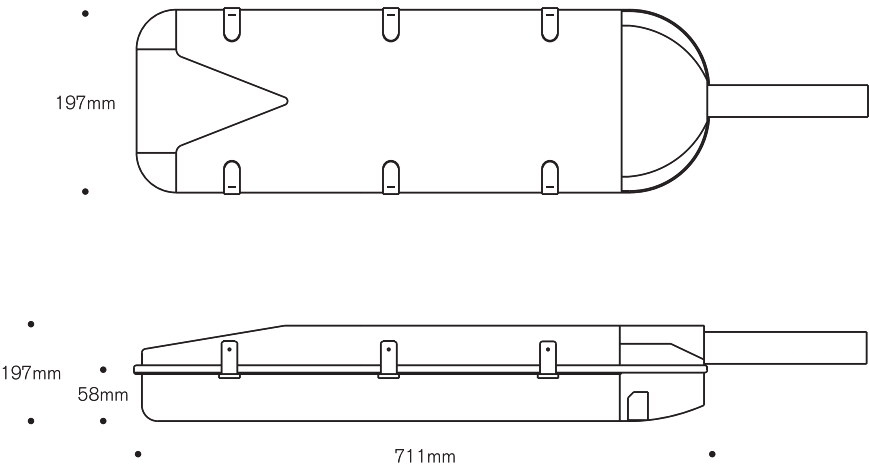
Y increments = 5.0m

Aiming angle – 5°

Weight – 2.8kg



PRODUCT DIMENSIONS



SPECIFICATION

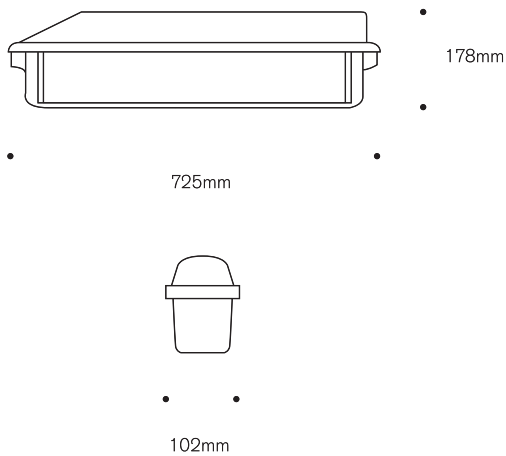
Lamp, PE cell and bracket ordered separately, D2 base fitted in PE models

Product Reference	Wattage	Control Gear Type	Lamp Reference	Diffuser Type	IP Rating	Windage Area m²	Pipe Entry Size mm	PE Cell Type	Electrical Characteristics		
									HPF	Line Start	Line Run/A
GL933 2x14WT5	2 x 14W	T5 Fluorescent Elect Ballast	FH 14 W/840 HE	Acrylic	IP65	0.075	32NB	D2	0.98	N/A	0.15A
GL933 2x24WT5	2 x 24W	T5 Fluorescent Elect Ballast	FQ 24 W/840 HO	Acrylic	IP65	0.075	32NB	D2	0.98	N/A	0.22A
GL933 1x40WCFL	1 x 40W	Compact Fluorescent Elect Ballast	DULUX L 40 W/840	Acrylic	IP65	0.075	32NB	D2	0.99	N/A	0.21A
GL933 1x55WCFL	1 x 55W	Compact Fluorescent Elect Ballast	DULUX L 55 W/840	Acrylic	IP65	0.075	32NB	D2	0.95	N/A	0.28A

# ASTRA SERIES 2



## PRODUCT DIMENSIONS



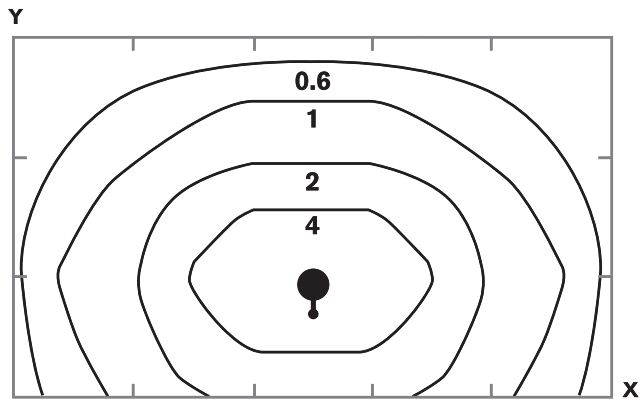
## FEATURES

- Specifically designed to meet the requirements for residential road lighting standards
- An aesthetic appearance for many streetscape environments
- Made with a die-cast aluminium body and a clear acrylic diffuser
- Easy access for maintenance with removable hinged gear tray
- Low energy consumption and low maintenance qualities
- Optional integral photo electric switch D2 base
- Aeroscreen version available to special order
- Available with Maintained Emergency (Integral Inverter and Battery Pack)

## APPLICATIONS

- Suburban roads
- Driveways
- Walkways
- Security Lighting
- Marinas

## PHOTOMETRIC DESIGN DATA



### Horizontal illumination - ASTRA AST218SE

Mounting height – 5.0m

Area – 25m x 15m

X increments – 5.0m

Y increments – 5.0m

Plane height – 0.0m

Aiming angle – 5°

**Windage** – 0.117m<sup>2</sup>

**Weight** – 2.82kg

**Windage** (Aeroscreen) – 0.046m<sup>2</sup>

Wired to AS3137 and EMC approved

Fits 25mm nominal bore pipe bracket

## SPECIFICATION

Lamp, PE cell and bracket ordered separately.

Product Reference	Wattage	Control Gear Type	Lamp Reference	Diffuser Type	IP Rating	Windage Area m <sup>2</sup>	Pipe Entry Size mm	PE Cell Type	Electrical Characteristics		
									HPF	Line Start	Line Run
AST218/SE	2 x 18W	T8 Fluorescent	L18W/21-840	ACRYLIC	IP54	0.117	25NB	OPT	0.9	422mA	261mA
AST218/SPC	2 x 18W	T8 Fluorescent	L18W/21-840	POLYCARBONATE	IP54	0.117	25NB	OPT	0.9	422mA	261mA
AST218/S	2 x 18W	T8 Fluorescent	L18W/21-840	ACRYLIC	IP54	0.117	25NB	OPT	0.9	422mA	261mA
AST214/HE	2 x 14W	T5 Fluorescent	FH 14W/840 HE	ACRYLIC	IP54	0.117	25NB	OPT	0.97	n/a	150mA
AST224/HO	2 x 24W	T5 Fluorescent	FQ 24W/840 HO	ACRYLIC	IP54	0.117	25NB	OPT	0.98	n/a	240mA

### Accessories

ASTACD	Acrylic Clear Diffuser
ASTPCD	Polycarbonate Clear Diffuser
UMB025	Universal Bracket 25mm OD
ME	Maintained Emergency (Integral)
PE	Integral photo electric switch D2 base

# Beghelli

## ENERGY SAVING FLOOD MINI FLOODLIGHT



### DESCRIPTION

- Body: Aluminium
- Diffuser: Glass
- Power: 24W
- Lamp: SEF R7s - 117mm
- Lamp lifetime: 8000h
- Voltage: 230V/240V 50Hz
- Colour temp: 4000K
- Flux: 1250lm
- Protection: IP65

### APPLICATIONS

- Facade
- Outdoor
- Gardens
- Security

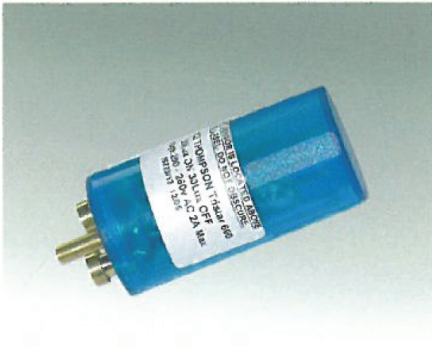
### FEATURES

- Supplied with one SEF R7s 24W 4000K lamp.
- Aluminium housing with IP65 protection
- 18 pieces multiple package transport box transformable in display is available.
- Replace halogen lamp and save up to 80% of energy consumption.

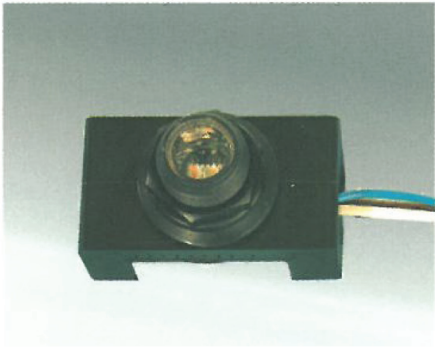
# PE CELL CONTROLS



MONOSTAR21



HTA002Mk2



P12HE

## FEATURES

- These top of the range models meet and in most cases exceed all national and international specifications, having the unique facility of a self test on initial power-up.
- The output is via a bi-stable relay with patented synchronous switching.

Product Reference	Specification
MONOSTAR21	Standard Switch level- 20 Lux "on" 20 Lux "off" Operating voltage-220/270 Vac +/- 10% 50/60 Hz Power Consumption <0.5w Operating Temperature Range -20/+80 deg C Maximum Lamp Load 2 x 400w inductive (63uF),8A. Ingress Protection - IP65 Mounting - "NEMABASE".
HTA002Mk2	Standard Switch level- 30 Lux "on" 30 Lux "off" Operating voltage - 90/265 Vac, 50/60 Hz. Power Consumption <0.5w Operating Temperature Range -20/+65 deg C Maximum Lamp Load 1 x 100w, 12uF PFC Ingress Protection - IP54 Mounting - STD "D2" Socket
P12HE	Sensor: Fully Sealed Cadmium Sulphide Cell Switching differential: 1:1.5 Diff Operating voltage 230V -6% + 10% 50Hz Power consumption 0.6 W (continuous) Operating temperature range -15° to 65°C Maximum lamp load 2 x 250W HPS 60uF PFC Dimensions 57mm x 31mm x 25mm deep: 25mm projection with 20mm thread Mounting Via 20mm clearance hole using Locknut and Gasket provided

PE Switch and base combination

NEMABASE	Standard 3 pin rotaloc base for electronic and thermal cells
D2	Standard 2 pin twist lock base for HTA002 cell
RTEB16	Dummy Bridging Plug, in lieu of PE Cell.

NEMABASE Standard 3 pin rotaloc base for electronic and thermal cells

D2 Standard 2 pin twist lock base for HTA002 cell

RTEB16 Dummy Bridging Plug, in lieu of PE Cell.

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