

Photocell Technical Information

Performance

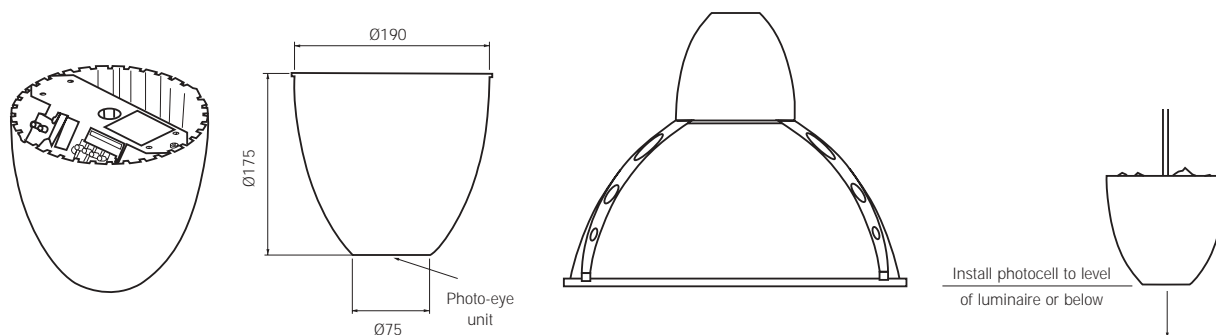
One Holophane photocell accessory (code PTP) will control the dimming operation of a cluster of up to 50 ballasts (100 luminaires).

Positioning

The photocell is mounted in a custom-designed pendant ready for suspension (see diagram below). The photocell will be positioned at or towards the centre of the luminaire cluster that it is controlling (see diagram of typical luminaire cluster including photocell position on page 2.12).

Installation

The photocell should be mounted at the same height as the luminaires and should be aimed at the floor. The photocell requires a mains supply which should be available at a suitable point near to the mounting position. (See diagram on page 2.12). The photocell output (0-10 volts DC) is linked to each ballast in series. For ease of installation it is acceptable to have a number of series spurs. It is recommended that the control wire has a maximum resistance of 0.075 ohms/m. Alternatively the cell can be directly connected into a busbar system that has an integrated 'twisted pair' control circuit. (See diagram on page 2.12). The photocell has an automatic 15 minute "hold high" relay built in to ensure lamps are run at full output for the first 15 minutes when switched on.



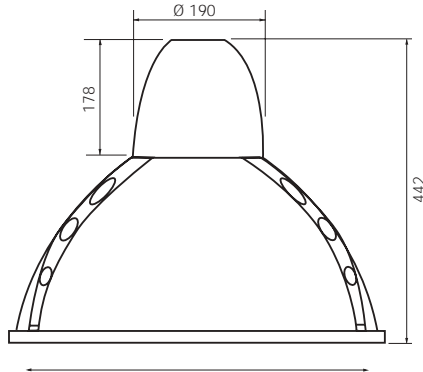
Commissioning

The photocell is to be commissioned by Holophane Field Service engineers to set the design lighting level as agreed with the customer. This operation needs to be carried out during hours of darkness.

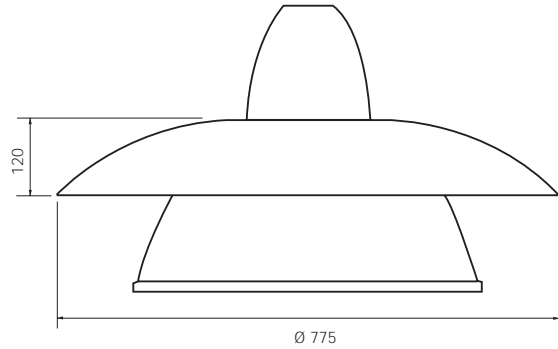
Presence detectors and set level switches

Presence detectors (PIR's) and set level switches are also available. Please contact Holophane for a made-to-measure design solution.

Dimensions (mm)

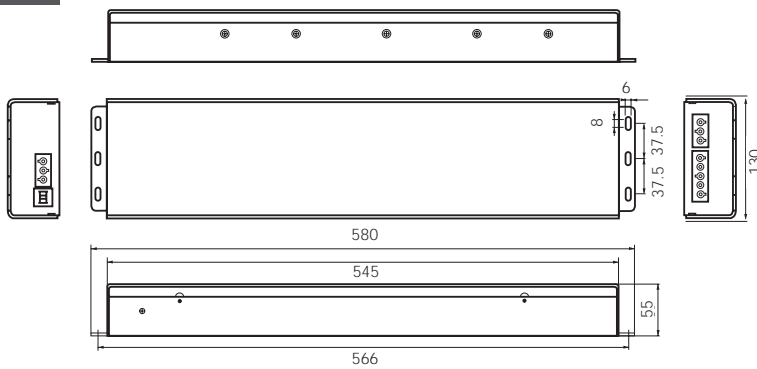


Ø 546 6640 Glass Reflector
 Ø 480 6639 Glass Reflector
 Ø 400 6631 & 6635 Glass Reflectors
 .GA, .GF & .GO reflector styles

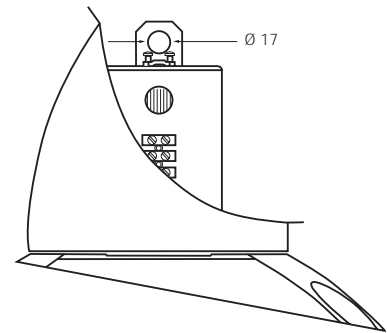


.DC reflector style

Dimensions (mm)



Prismatron ballast



Fixing detail

Weights & Thermal Data

| Prismatron Luminaire | 6640 Glass Reflector (kg) | 6639 Glass Reflector (kg) |
|------------------------------|---------------------------|---------------------------|
| .GF reflector style | 9 | 8 |
| .GA reflector style | 10 | 9 |
| .GO reflector style | 8 | 7 |
| .DC decorative canopy option | +1.5 | +1.5 |

| Prismatron Ballast | Weight (kg) | Minimum Operating Temperature (°C) | Maximum Ambient Temperature (°C)* |
|--------------------|-------------|------------------------------------|-----------------------------------|
| PTNG | 3 | -20 | 35 |

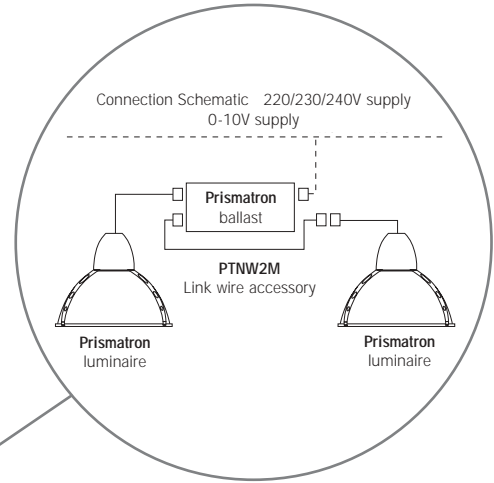
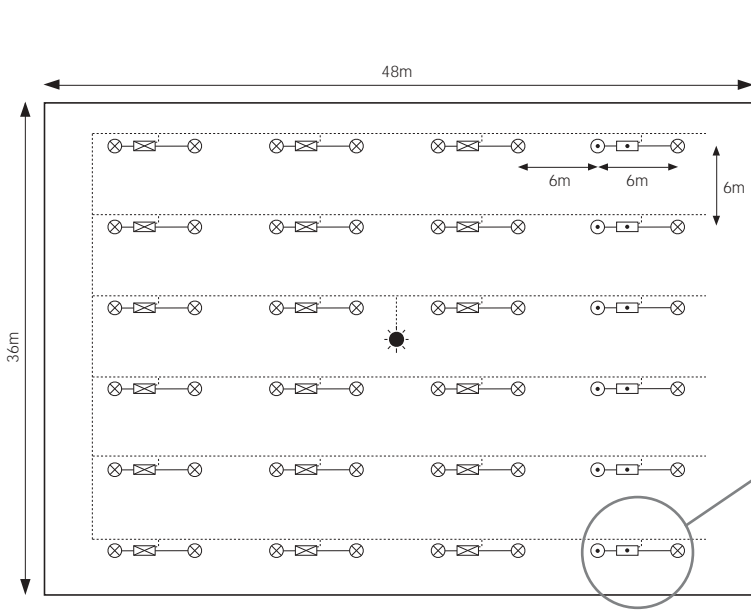
* An ambient temperature that oscillates above and below this level is acceptable up to a maximum of 40 °C peak temperature.

Note: Exceeding ballast temperatures, either magnetic or electronic, will shorten life.

Note: Prismatron ballasts require the lamps to run up to full output for 15 minutes before the lamps can be dimmed.



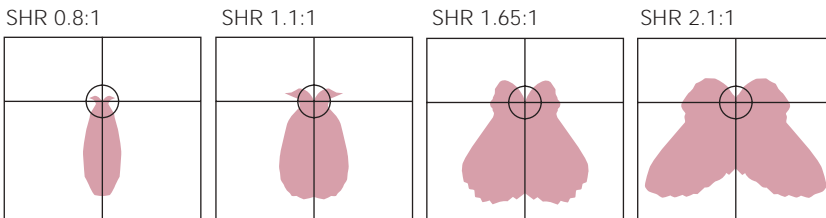
Example Scheme Call Off



- ⊗ 42 PTN400CMDP.1539.GF Prismatron luminaire
- ⊙ 6 PTN400CMDP.1539.GF.M6 Prismatron auxiliary luminaire
- ⊠ 18 PTNG2L400 Prismatron ballast
- ◻ 6 PTNG2L400.M6 Prismatron auxiliary ballast
- 24 PTNW2M Link wire accessory*
- ☀ 1 PTP1 Remote photocell accessory

* This example assumes 6m spacings with no drop to the luminaire i.e. mounted directly to a surface/trunking system

Light Distributions



SHR = spacing to height ratio

Photometric data is available on the Holophane cd-rom or at www.holophane.eu.com



Plug & socket design

207 - 277V 50/60Hz input voltage
0 - 10V signal voltage input



Output to two Prismatron luminaires
(.M6 auxiliary version)

Ordering Details - Luminaire

| Code | | | | | |
|---|--|--------------------|---------|-----------|--|
| PTN | Prismatron luminaire head complete with 2m flying lead & plug | | | | |
| Code | Lamp Type | | | | |
| 320HDSP | 320W coated 3700K protected pulse start metal halide lamp (E40) base | | | | |
| 350HDSP | 350W coated 3700K protected pulse start metal halide lamp (E40) base | | | | |
| 400CMDP | 400W coated 3700K protected ceramic metal halide lamp (E40) base | | | | |
| 400CMTP | 400W clear 4000K protected ceramic metal halide lamp (E40) base | | | | |
| 400HDSP | 400W coated 3700K protected pulse start metal halide lamp (E40) base | | | | |
| 400HTPSP | 400W clear 4000K protected pulse start metal halide lamp (E40) base | | | | |
| Code | Reflector Style | Light Distribution | SHR | Reflector | |
| Coated lamps - glass only reflector | | | | | |
| .0840.GO | Glass only reflector | Focusing | 0.8:1* | 6640 | |
| .1240.GO | Glass only reflector | Intensive | 1.2:1* | 6640 | |
| .1639.GO | Glass only reflector | Broad | 1.65:1* | 6639 | |
| .2139.GO | Glass only reflector | Extensive | 2.1:1* | 6639 | |
| Clear lamps - glass only reflector | | | | | |
| .0840.GO | Glass only reflector | Focusing | 0.8:1* | 6640** | |
| .1231.GO | Glass only reflector | Intensive | 1.2:1* | 6631** | |
| .1535.GO | Glass only reflector | Broad | 1.55:1* | 6635** | |
| .2331.GO | Glass only reflector | Extensive | 2.35:1* | 6631** | |
| Coated lamps - glass in frame reflector | | | | | |
| .0840.GF | Glass in frame reflector | Focusing | 0.8:1* | 6640 | |
| .1240.GF | Glass in frame reflector | Intensive | 1.2:1* | 6640 | |
| .1639.GF | Glass in frame reflector | Broad | 1.65:1* | 6639 | |
| .2139.GF | Glass in frame reflector | Extensive | 2.1:1* | 6639 | |
| Clear lamps - glass in frame reflector | | | | | |
| .0840.GF | Glass in frame reflector | Focusing | 0.8:1* | 6640** | |
| .1231.GF | Glass in frame reflector | Intensive | 1.2:1* | 6631** | |
| .1535.GF | Glass in frame reflector | Broad | 1.55:1* | 6635** | |
| .2331.GF | Glass in frame reflector | Extensive | 2.35:1* | 6631** | |
| Coated lamps - glass & aluminium reflector | | | | | |
| .0940.GA | Glass & aluminium reflector | Focusing | 0.9:1* | 6640 | |
| .1240.GA | Glass & aluminium reflector | Intensive | 1.2:1* | 6640 | |
| .1639.GA | Glass & aluminium reflector | Broad | 1.6:1* | 6639 | |
| .2039.GA | Glass & aluminium reflector | Extensive | 2.0:1* | 6639 | |
| Coated lamps - glass & aluminium reflector | | | | | |
| .0840.GA | Glass & aluminium reflector | Focusing | 0.8:1* | 6640** | |
| .1040.GA | Glass & aluminium reflector | Intensive | 1.0:1* | 6640** | |
| Code | Options | | | | |
| .CA | Safety chain fix | | | | |
| .M6 | Auxiliary 150W TH lamp relay circuit*** | | | | |
| .PO1 | Customer auxiliary 150W TH lamp supply 230/240V*** | | | | |
| .DC | Secondary canopy reflector style**** | | | | |
| PTN | 400HDSP | .1639.GF | .M6 | Example | |



* Only 1 SHR specifiable per twin luminaire head arrangement.

** For ceramic lamps photometric data is preliminary.

*** Only one .M6 option per remote dimmable ballast.

**** For use with .GO and .GF reflector styles.

Note: For luminaire spacings greater than 4m (including drop) use link wire accessory (see next page).

Accessories

Code

Remote ballast to run two luminaire heads 207-277V controllable 0-10V signal & plug & socket connection

| | | | |
|-------------|--|---------------------|---------------------------------------|
| PTNG | Prismatron remote mounted electronic ballast | | |
| | Code | No. of Lamps | |
| | 2L | Twin operation | |
| | | Code | Lamp Wattage |
| | | 320 | 320W lamps |
| | | 350 | 350W lamps |
| | | 400 | 400W lamps |
| | | Code | Options |
| | | .M6 | Auxiliary 150W TH lamp relay circuit* |
| PTNG | 2L | 400 | .M6 |

Example



* Ballast only drives one .M6 luminaire

Code

Wiring Accessories

| | | |
|-------------|----------------------------------|--|
| PTNW | Prismatron link wiring accessory | |
| | Code | Cable Supplied |
| | 2M | 2m of cable with pre-wired plugs for second luminaire head |
| | 4M | 4m of cable with pre-wired plugs for second luminaire head |
| | 6M | 6m of cable with pre-wired plugs for second luminaire head |
| | 8M | 8m of cable with pre-wired plugs for second luminaire head |
| PTNW | 2M | |

Example



Code

Control Accessories

| | |
|--------------|---|
| PTN.5PBW15 | Five Button White Switch Plate |
| PTN.PCD15 | Photocell Sensor, Mounting Shroud and Variable Adjustment |
| PTN.PDD13015 | Single 30M Range Presence Detector |
| PTN.CS8 | Eight Circuit Current Sink |

For further control accessories, please refer to the HOLOS brochure page 10.