



## Hyperion LED Inter light

### Advanced Product Information



#### Key Features

- Up to 300 micromoles/s fixture light output.
- Up to 3.0  $\mu\text{mol}/\text{joule}$  efficacy
- IP66 rated
- 230V
- Wide beam angle – 120 °
- 5 year warranty
- Customized lengths available

#### Key Benefits

- Robust, extruded aluminum profile
- Choice of spectrums and efficacies to suit grower requirements.
- Competitive pricing and cost effective installation
- Perfect complement for Hyperion top lighting
- Configurable for daisy chain wiring up to 20 fixtures per line
- Easy installation with plug and play connectors and simple wire hanging

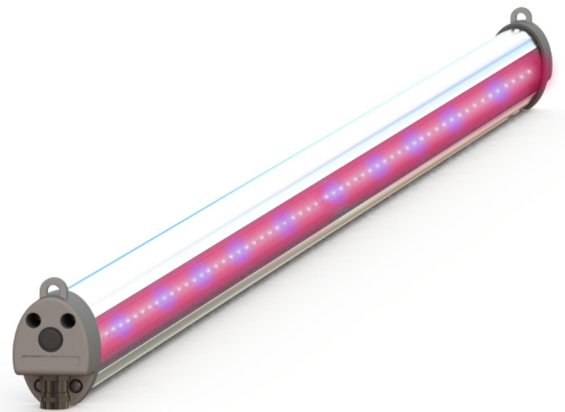
## Summary Description

Plessey's Hyperion Inter light is the perfect partner to the Hyperion top light range or to supplement existing HPS/SON-T top lighting. The Inter Light fixture has been specifically designed to provide intra canopy light from state-of-the-art LEDs for high wire cultivation of greenhouse vegetables and is installed within the crop to supplement existing top lighting.

The Inter Light is suitable for use in hybrid systems with HPS and LEDs, promoting plant growth and fruit ripening speed. The fixture is constructed from corrosion proof extruded aluminium which is both strong and lightweight. The light engine is made up of state of the art LEDs arranged to maximize output and uniformity.

## Specification

Value	Data
Input Voltage	230V AC@ 50/60 Hz
Input Current	0.5A <sup>(1)</sup>
Power Consumption	100W - 120W
Power Factor	0.95
Wavelength Range	450 nm to 730 nm
Working Temperature	0° to 35°C
PPF + NIR	Up to 300µmol/s
Efficacy	Up to 3.0 umol/J
Warranty	5 years/25000 hrs
Fixture Weight	6.5kg



Notes: @ 230V AC Input Voltage (1)

@ 25°C Ambient (2)

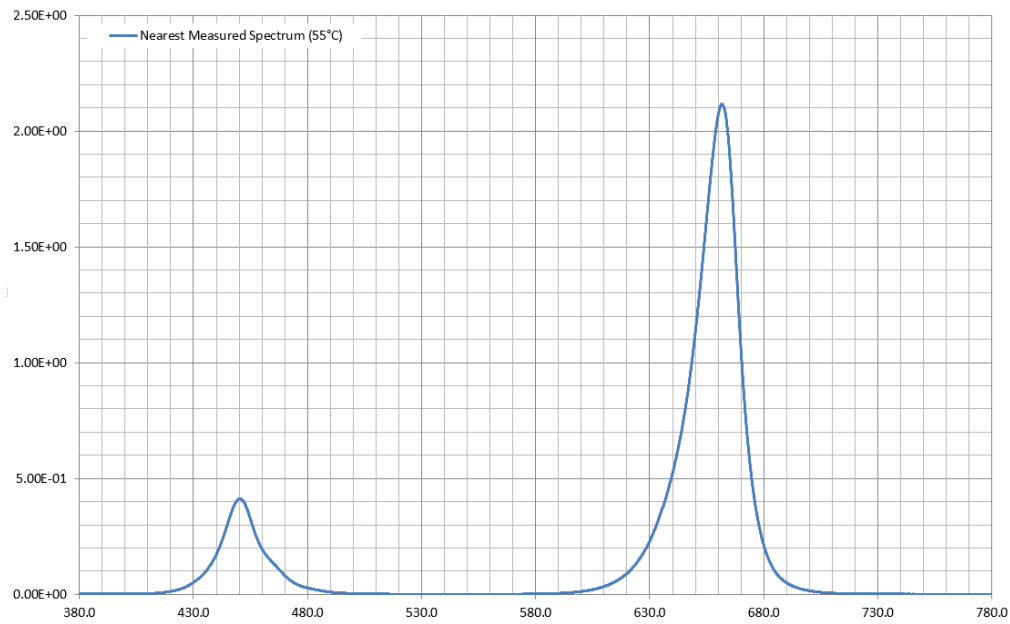
Based on standard bracket specification. Alternative designs will vary (3)

*The values in the table above are provided as typical values, and not a performance claim specific to any individual product. Performance will be dependent on spectrum and customer specific options.*

*Photosynthetic Photon Flux and connected electrical load are subject to tolerance of +/- 10%. For the purposes of this document Photosynthetic Photon Flux is measured between 380nm – 780nm with each wavelength weighted equally.*

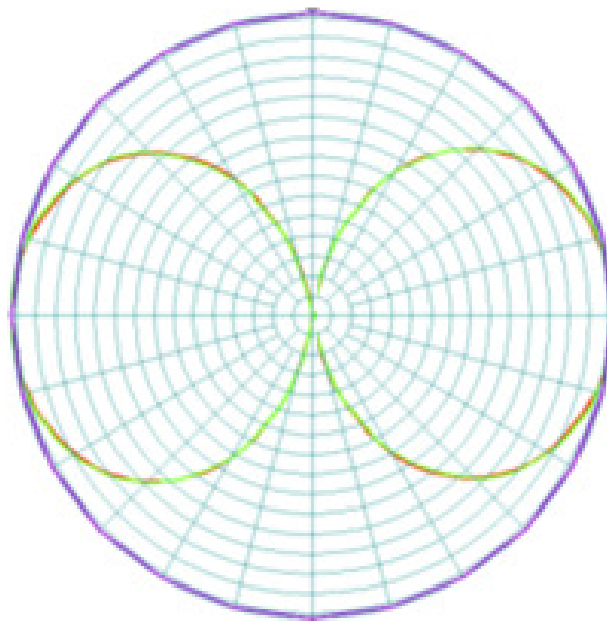
*The Hyperion Inter light has been tested by an accredited independent laboratory to LM-79-08, (BS) EN 13032-4:2015 and CIE S025:2015 test standards. Information can be supplied upon request.*

## Spectrum

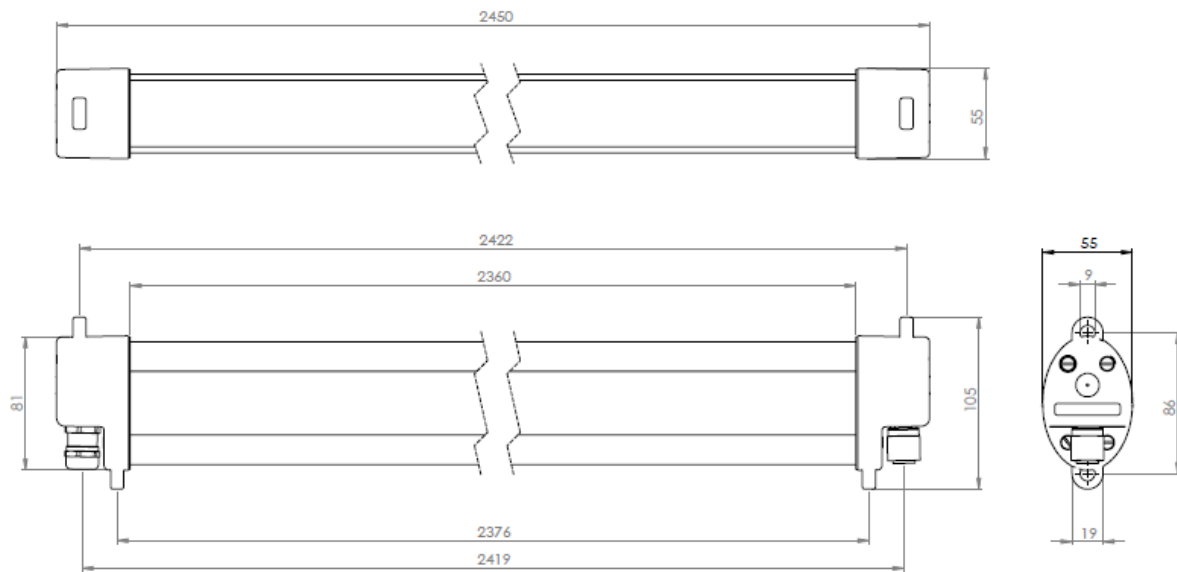


*Spectrum includes 10% Blue (455nm), 90% Red (660nm)*

## Light Distribution. 120 ° beam angle



## Dimensions



## Installation

The Hyperion inter light is supplied with an internal driver which is mounted within the fixture, it is suitable for voltages between 220-240V AC 50/60hz.

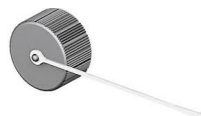
The fixture is prewired with a Wieland mini connector 46.032.4553.0 at one end and a corresponding socket at the other, These connectors are matched for seamlessly daisy chaining up to 20 fixtures without the need for extra jumper cables. The socket on the final fixture in any chain must have a cover cap Wieland Part No. Z6.561.7253.0 fitted to maintain ingress protection and product safety.



46.031.4553.0



46.032.4553.0



Z6.561.7253.0

The greenhouse lighting supply wiring should be terminated with a Wieland 46.031.4553.0 female connector. This will plug into the connector of the first fixture in any chain

## **Safety**

The Hyperion inter light fixture does not radiate harmful wavelengths of light but like many high power artificial lights, users should not look directly at the fixture whilst the light is on.

Care must be taken when assembling, fitting or handling to prevent personal injury or damage to the product. This light fitting must be installed by a competent person in accordance with the local Building and Electrical Regulations

Plessey cannot accept any liability for loss, damage or premature failure resulting from inappropriate use. Plessey can advise on installation requirements including how to achieve the desired amount of light and uniformity.

## **Maintaining Warranty**

In order to maintain the product warranty, the following information must be observed. Please refer to Hyperion Grow Lights Warranty Document and User Manual.

## **Cleaning / Maintenance**

- Depending on environment dust can collect in the metal heatsinks over time. This should be removed periodically by a low pressure air / water jet, appropriate PPE should be worn.
- It is recommended that the lenses be cleaned every 3 months. Lenses can be wiped clean with a damp cloth or hosed down. The unit should not be submerged.
- This fixture has no user replaceable parts. If you experience a failure or problem with any part of your product please contact Plessey Customer Service for Assistance.

## **Important Information**

- The Ingress Protection of any termination performed by the client must preserve the ingress protection of the fixture in order to maintain product warranty.
- No more than 20 fixtures should be daisy chained together. It is the customers / installers responsibility to ensure adequate supply cabling and circuit protection is afforded.
- Once installed and connected to the fixed wiring system the product can be switched on with no further commissioning.

## **Disposal**

When the light fitting comes to the end of its life please do not dispose of it within the general waste, please recycle where facilities exist. When you need to dispose of this fitting, check with your distributor or local authority for suitable options. New regulations require the recycling of Waste from Electrical and Electronic Equipment (European “WEEE Directive” effective August 2005—UK WEEE Regulations effective 2nd January 2007). Environment Agency Registered Producer: WEE/MM3672AA.

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Products are intended for normal commercial applications. For applications requiring unusual environmental requirements, extended temperature range, or high reliability capability (e.g. military or medical applications), special processing/testing/conditions of sale may be available on application to Plessey.

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