

Pisces LED

Cage lighting for photoperiod manipulation.

Features



- > Dimmer Control (1-10V & DALI platform) for “soft start” introduction into pen
- > Wattage - 220W (equivalent to 400W metal halide)
- > Lumen output - 33,000 (equivalent to 400W metal halide)
- > Colour temp - 5000K (white) or 490nm - 510nm (bluish green) as standard
- > Weight in air - 15Kg
- > Approx weight in water - 9Kg
- > Voltage - (130V - 214V)
- > Current - 2A max
- > LED life span - 50,000 hours

Benefits:

Designed for photoperiod operation in cages, the Pisces LED uses less power when compared to a 400W metal halide for equivalent lumen light output. BGB provide the luminaire with either a 5000K or 490nm - 510nm direct light output as standard. Customer specific light wavelengths are also available on request.

The dimmer control platform allows the user to introduce the light into the pen at a low lumen output to create a “soft-start” illumination for gentle introduction to the fish. This allows the fish to acclimatise to the light almost immediately.

The Pisces LED has been specifically designed to be lightweight for ease of handling around the farm and to disperse heat efficiently.

400W metal halide lamps are rated to 12,000 hours lifetime so a customer will need to replace his 400W lamp 4-5 times in the space of an LED life span, therefore creating larger savings.

The LED modules can easily be replaced at the end of 50,000 hours life span, it would just be a case of sending the lamp back for refurbishment. The LED strip can be easily changed to a different colour strip should a non-white light output be preferable.

Driver's for the Pisces LED are situated on the cage side as they are too large to fit inside the lamp housing, this brings its own advantages, as they are easily accessible for maintenance or replacement. BGB can offer either single compact cage side control boxes or solutions with ballasts to run multiple lights. All BGB cage side control boxes are supplied with 30mA RCBO's to offer protection against the equipment and against electrical shock for the operator.





All following figures are based on assumptions only! BGB cannot be held liable if product performance is not a direct comparison to the following figures.

All figures and graphs are a direct comparison of the Pisces LED versus the P400 (Metal Halide) lamp (May2015).

Bulb Savings

Pisces LED's lasts 3.5 times longer in operation than a conventional 400W metal halide lamp. RRP for a P400 lamp = £27.80 (GBP), x 3.5 = £97.30.

Energy Savings

Pisces LED's runs with 180W less power than a conventional 400W metal halide. If we therefore assume that a typical season is 1920 hours (120 days @ 16hrs/day) then we can assume:

1 x P400 lamp consumes 768 KWh per season.

1 x Pisces LED consumes 422 KWh per season.

Scottish Power energy prices (Midlands) until Jan 2015 (Fixed).

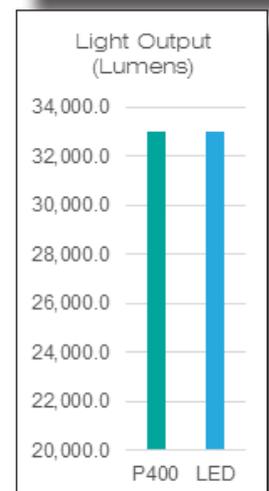
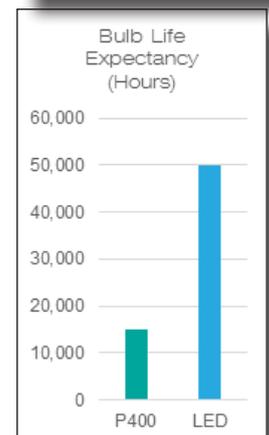
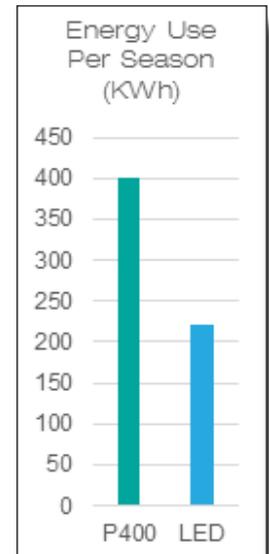
Standing Charge Options

Pay monthly by Direct Debit.

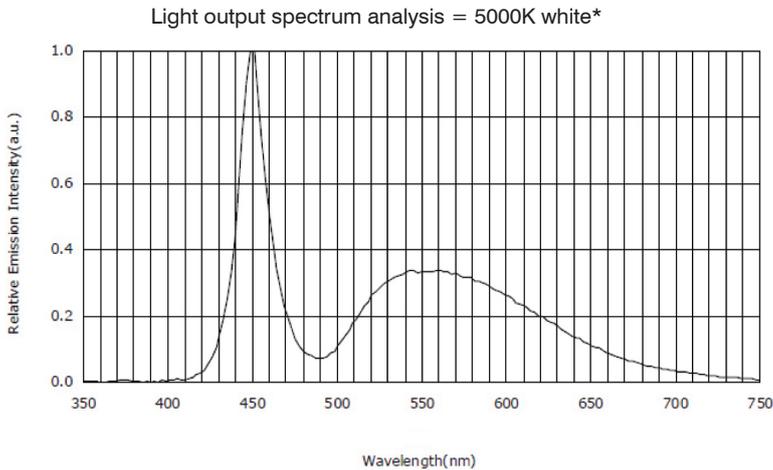
Electricity Prices			excluding VAT			including VAT		
Supply Area Code	Supply Area	Meter Type	Daily Service Charge	All/Day kWh	Night kWh	Daily Service Charge	All/Day kWh	Night kWh
10	Eastern	Single Rate	28.67p	10.590p	---	30.10p	11.120p	---
10	Eastern	Two Rate	29.17p	11.706p	5.837p	30.63p	12.291p	6.129p
11	East Midlands	Single Rate	29.19p	10.681p	---	30.65p	11.215p	---
11	East Midlands	Two Rate	29.66p	10.890p	5.692p	31.14p	11.435p	5.977p
12	London	Single Rate	32.91p	10.857p	---	34.56p	11.400p	---
12	London	Two Rate	36.12p	11.159p	5.819p	37.93p	11.717p	6.110p

P400 power cost per season (approx.) = £87.82

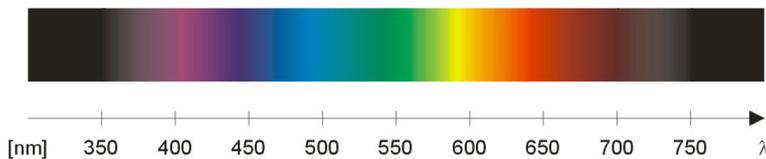
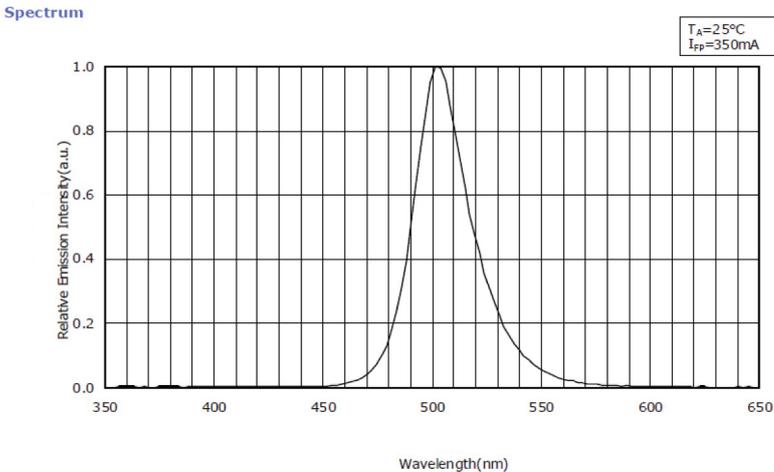
Pisces LED power cost per season (approx.) = £48.25



Light Output Spectrum Analysis



Light output spectrum analysis = 490nm - 510nm bluish green*



*All characteristics shown are for reference only and are not guaranteed.

45% Power Saving
Over P400

50,000 Hours Life
Expectancy

Fully Dimmable
(DALI Control)

White & Blue / Green
Versions

A Farm of 100 LED
Lights Could Save
£3960 In Energy Per
Season

£9730 In Bulbs During
LED Product Lifetime

**Based on 2015 Energy prices*