

# PRODUCT DATASHEET

## ECO HP FLOOD 500W 840 VN 61000LM BK

ECO HIGH POWER FLOODLIGHT | Floodlight with rotational symmetric light distribution for high mast area lighting



### Areas of application

- Direct replacement for luminaires using HID lamps
- Sports facilities
- Industry
- Lighting of large areas

### Product benefits

- Energy savings of up to 90 % compared to halogen lamp floodlights
- Energy savings of up to 45 % compared to luminaires that use conventional discharge lamps
- Homogeneous light output
- 5 years guarantee

### Product features

- Rotational symmetric light distribution for high mast area lighting
- Various versions with different types of light distribution available
- Mounting bracket for up to 180° tilting
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm<sup>2</sup> single wires



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## TECHNICAL DATA

### Electrical data

|                                                             |               |
|-------------------------------------------------------------|---------------|
| Nominal wattage                                             | 500.00 W      |
| Nominal voltage                                             | 100...240 V   |
| Mains frequency                                             | 50...60 Hz    |
| Nominal current                                             | 2550.000 mA   |
| Inrush current                                              | 150 A         |
| Inrush current time $T_{h50}$                               | 500 $\mu$ s   |
| Max. number of luminaires per miniature circuit breaker B16 | 1             |
| Max. number of luminaires per miniature circuit breaker C10 | 1             |
| Max. number of luminaires per miniature circuit breaker C16 | 1             |
| Power factor $\lambda$                                      | > 0.95        |
| Total harmonic distortion                                   | < 20 %        |
| Protection class                                            | I             |
| Operating mode                                              | Mains voltage |

### Photometrical data

|                                              |                      |
|----------------------------------------------|----------------------|
| Luminous flux                                | 61000 lm             |
| Luminous efficacy                            | 122 lm/W             |
| Color temperature                            | 4000 K               |
| Light color (designation)                    | Cool White           |
| Color rendering index Ra                     | $\geq 80$            |
| Standard deviation of color matching         | < 5 sdc <sub>m</sub> |
| Luminous intensity                           | -                    |
| Flickering metric (Pst LM)                   | -                    |
| Stroboscope effect metric (SVM)              | -                    |
| Photobiological safety group acc. to EN62778 | RG2                  |
| Photobiological safety group acc. to EN62471 | RG2                  |
| Beam angle                                   | 30 °                 |

ECO CLASS HP FLOODLIGHT  
VERY NARROW

Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 575.00 mm  |
| Width          | 604.00 mm  |
| Height         | 152.00 mm  |
| Product weight | 17500.00 g |
| Cable length   | 1000 mm    |



HP FLOODLIGHT 500W

Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | Black              |
| Housing color                              | Black              |
| RAL Color (most similar)                   | RAL 9005           |
| Body material                              | Aluminum           |
| Cover material                             | Polycarbonate (PC) |
| Light emitting surface material            | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C             |
| Mercury content                            | 0.0 mg             |

Application & Mounting

|                                        |               |
|----------------------------------------|---------------|
| Ambient temperature range              | -40...+45 °C  |
| Type of connection                     | Cable, 3-pole |
| Type of protection                     | IP65          |
| Protection class IK (shock resistance) | IK08          |
| Dimmable                               | No            |
| Mounting type                          | Surface       |
| Mounting location                      | Ceiling       |
| Application environment                | Outdoor       |
| Adjustable                             | Yes           |
| With light source                      | No            |
| Replaceable light source               | No            |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 50000 h <sup>1)</sup> |
| Number of switching cycles | 100000                |

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

### Certificates & Standards

|                                                      |                         |
|------------------------------------------------------|-------------------------|
| Standards                                            | CE / EAC / RoHS / REACH |
| Luminaire with limited surface temperature, "D sign" | No                      |
| Replaceable light source (EPREL)                     | Not replaceable         |

### Additional product data

|                       |   |
|-----------------------|---|
| Number of illuminants | - |
|-----------------------|---|

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                                        |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------|
|  | User instruction / safety instructions | UI ECO HP FLOOD 500W BK                              |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG                   |
|  | Declarations of conformity             | CE Declaration of Conformity ECO CLASS HP FLOODLIGHT |

| Photometric and lighting design files                                            |                                     | Document name                       |
|----------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
|  | LDT file (Eulumdat)                 | ECOHPFLOOD 500W 840VN61000LM BK     |
|  | Light distribution curve type polar | ECO CLASS HP FLOODLIGHT VERY NARROW |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                 |
|---------------|------------------------------|--------------------------------------|--------------|------------------------|
| 4058075372528 | Shipping box<br>1            | 675 mm x 650 mm x 230 mm             | 18859.00 g   | 100.91 dm <sup>3</sup> |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

## DISCLAIMER

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