

PRODUCT DATASHEET

ECO HP FLOOD 500W 840 N 68500LM 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 mm² single wires



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 μ 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 λ	> 0.95
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Mains voltage

Photometrical data

Luminous flux	68500 lm
Luminous efficacy	137 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥ 80
Standard deviation of color matching	< 5 sdc _m
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	60 °

ECO CLASS HP FLOODLIGHT
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 ¹⁾
Number of switching cycles	100000

¹⁾ 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	-
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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 840 N68500LM BK
	Light distribution curve type polar	ECO CLASS HP FLOODLIGHT NARROW

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075372559	Shipping box 1	675 mm x 650 mm x 230 mm	18859.00 g	100.91 dm³

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

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.