

# PRODUCT DATASHEET

## ECO HP FLOOD 300W 857 N 41100LM 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



## TECHNICAL DATA

## Electrical data

Nominal wattage	300.00 W
Nominal voltage	100...240 V
Mains frequency	50...60 Hz
Nominal current	1550.000 mA
Inrush current	80 A
Inrush current time $T_{h50}$	500 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	2
Max. number of luminaires per miniature circuit breaker C10	2
Max. number of luminaires per miniature circuit breaker C16	3
Power factor $\lambda$	> 0.95
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Mains voltage

## Photometrical data

Luminous flux	41100 lm
Luminous efficacy	137 lm/W
Color temperature	5700 K
Light color (designation)	Daylight
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	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	60 °

ECO CLASS HP FLOODLIGHT  
NARROW

Dimensions & Weight

Length	522.00 mm
Width	370.00 mm
Height	152.00 mm
Product weight	10500.00 g
Cable length	1000 mm



HP FLOODLIGHT 300W

Materials & Colors

Product color	Black
Housing color	Black
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
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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	-
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### DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI ECO HP FLOOD 300W 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 300W 857 N41100LM BK

Photometric and lighting design files		Document name
	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
4058075372481	Shipping box 1	597 mm x 442 mm x 225 mm	11623.00 g	59.37 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](http://www.ledvance.com/guarantee)

DISCLAIMER

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