

PRODUCT DATASHEET

FL FLEX P 450W ML 830 A60X110 WAL

FLOODLIGHT FLEX ASYMMETRIC 60 X 110 | High lumen floodlights with wide beam, asymmetric light distribution for various applications



Areas of application

- Coastal areas, like ports
- General outdoor area lighting
- Parking
- Suitable for indoor and outdoor sports facilities
- Architectural lighting
- Industry
- Direct replacement for luminaires using HID lamps

Product benefits

- Corrosion resistance C5: tested in environments with high salinity
- Serviceable luminaire: LED driver can be replaced
- Flexible application due to a range of different lumen packages and beam angles
- 3 cable entries for flexible use and easy connection between luminaires
- Integrated breather for preventing condensation inside the luminaire
- Energy savings of up to 91 % compared to halogen lamp floodlights
- Energy savings of up to 51 % compared to luminaires that use conventional discharge lamps
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt
- Intelligent design of the water drain to prevent standing water
- Simple angle adjustment by locking every 2.5°
- Clear angular degree indication
- Key hole to ensure ease of installation

Product features



- Corrosion resistance C5 based on 1,500 hours salt mist spray test
- High luminous efficacy: up to 150 lm/W
- Multi Lumen function: 4 power steps selectable
- Daisy chaining possible
- High surge protection: up to 10 kV (L/N-PE), 6 kV (L-N)
- High lifetime (L70/B50): up to 120,000 h (at 25 °C)
- Lumen packages up to 70000 lm

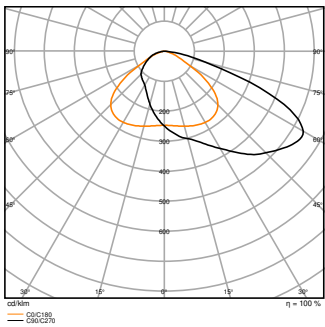
TECHNICAL DATA

Electrical data

Nominal wattage	450 W / 382.5 W / 315 W / 247.5 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	2000.000 mA
Inrush current	200 A
Inrush current time T_{h50}	208 μ s
Max. number of luminaires per miniature circuit breaker B16	3
Max. number of luminaires per miniature circuit breaker C10	3
Max. number of luminaires per miniature circuit breaker C16	5
Power factor λ	> 0.96
Total harmonic distortion	< 20 %
Protection class	I
Surge capability (L-N)	6 kV
Surge capability (L/N-Ground)	10 kV
Operating mode	Integrated LED driver

Photometrical data

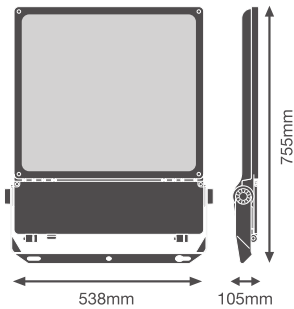
Luminous flux	60000 lm / 51000 lm / 42600 lm / 34200 lm
Luminous efficacy	133 lm/W / 135 lm/W / 138 lm/W
Color temperature	3000 K
Light color (designation)	Warm White
Color rendering index Ra	> 80
Standard deviation of color matching	5 sdc _m
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<.0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	60 ° x 110 °



FL FLEX P 450W ML 830 A60X110
WAL LEDV

Dimensions & Weight

Length	755.00 mm
Width	538.00 mm
Height	105.00 mm
Product weight	15500.00 g



FL FLEX P WAL

Materials & Colors

Product color	White aluminum
Housing color	White aluminum
RAL Color (most similar)	RAL 9006
Body material	Aluminum
Cover material	Glass
Light emitting surface material	Glass

Glow Wire Test according to IEC 60695-2-12	850 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-30...+50 °C
Temperature range at storage	-30...+80 °C
Type of connection	Screwless terminal
Type of protection	IP66
Protection class IK (shock resistance)	IK08
Corrosion resistance class acc. to EN 12944	C5
Dimmable	No
Mounting type	Surface
Mounting location	Wall / Pole / Floor / Ceiling
Application environment	Outdoor
Adjustable	Yes
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	120000 h ¹⁾
Lifespan L80/B10 at 25 °C	100000 h ¹⁾
Lifespan L80/B50 at 25 °C	100000 h
Lifespan L90/B10 at 25 °C	50000 h
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)

Control gear

Output current	6250 mA
ECG - Output ripple current	< 10 %

Certificates & Standards

Standards	CE / CB / ENEC / UKCA
Luminaire with limited surface temperature, "D sign"	Yes

Additional product data

Added function	MULTI SELECT
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Accessories Optional

Product image	Product name	EAN
	FL FLEX ADAPTER SOCKET ZHAGA	4099854680076
	FL FLEX ADAPTER SOCKET NEMA	4099854680113

EQUIPMENT / ACCESSORIES

- Delivery without cables
- Second cable gland included
- 2 rubber inserts for 6,5 - 7,5 mm cables included

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	FL FLEX P ON-OFF
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	Safety Insert G11205497
	Legal information	LSI FL FLEX
	Legal information	Legal insert G11231557
	Declarations of conformity	CE FL FLEX P
	Declarations of conformity UKCA	UKCA FL FLEX P
	Certificates	ENEC FL FLEX P
Photometric and lighting design files		Document name
	IES file (IES)	FL FLEX P 450W ML 830 A60X110 WAL LEDV

CAD/BIM files		Document name
	BIM Revit 3D	Floodlight Flex
	CAD STEP 3D	FL FLEX 450W

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854373886	Shipping box 1	837 mm x 577 mm x 154 mm	18095.00 g	74.37 dm³

Figure 1: Schematic diagram of the experimental setup. The top left shows a top-down view of a wind turbine with a horizontal arrow indicating the wind direction. The bottom left shows a side-view cross-section of the turbine, with a dashed line indicating the location of the sensor. The right side shows a circular cross-section of the turbine with four sensors labeled 100%, 80%, 50%, and 20% indicating the percentage of the total area covered by the sensor. Below this is a table with two sections: 'W' and 'Im'. The 'W' table has columns for Type, 100%, 80%, 50%, and 20%, and rows for 400W, 600W, 800W, 1000W, 1200W, 1400W, 1600W, 1800W, 2000W, 2200W, 2400W, 2600W, 2800W, 3000W, 3200W, 3400W, 3600W, 3800W, 4000W. The 'Im' table has columns for 100%, 80%, 50%, and 20%, and rows for 100%, 150%, 200%, 250%, 300%, 350%, 400%.

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