

# PRODUCT DATASHEET

## FL FLEX P 450W ML 830 R20 WAL

FLOODLIGHT FLEX RADIAL SYMMETRIC 20 | High lumen floodlights with radial symmetric light distribution for high mast area lighting



### 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 151 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

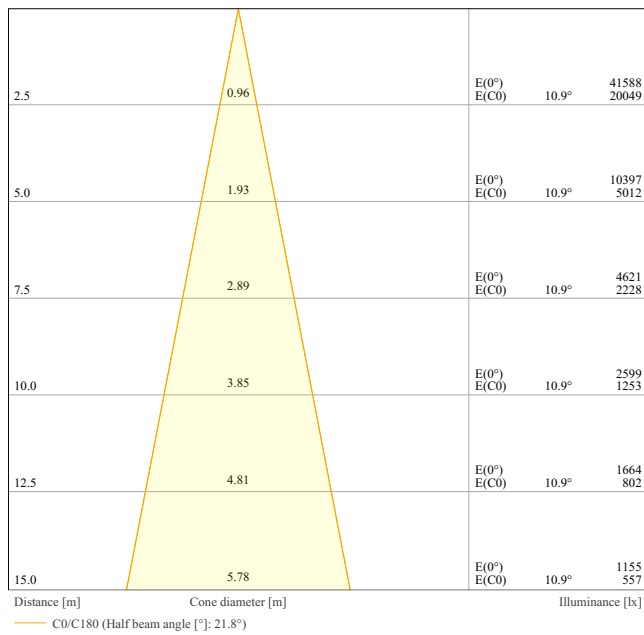
## TECHNICAL DATA

### Electrical data

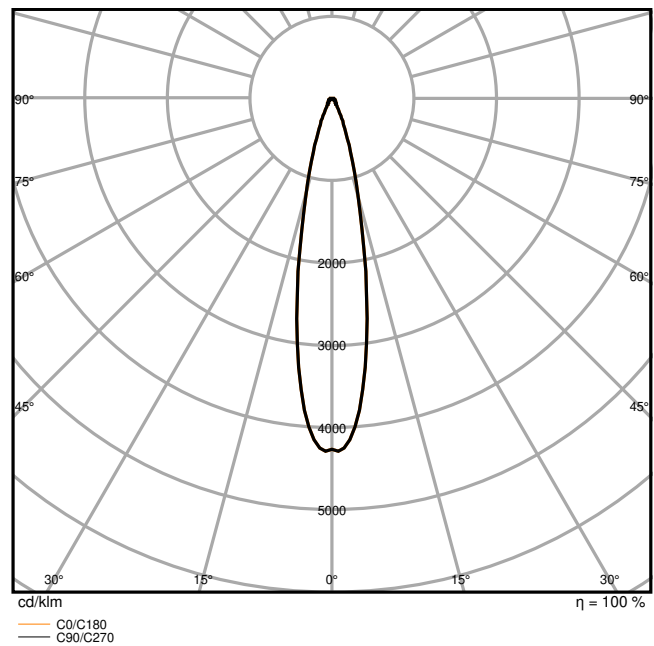
Nominal wattage	450 W / 382.5 W / 315 W / 247.5 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	2000.000 mA
Inrush current	200 A
Inrush current time $T_{h50}$	208 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	3
Max. number of luminaires per miniature circuit breaker C10	3
Max. number of luminaires per miniature circuit breaker C16	5
Power factor $\lambda$	> 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	61000 lm / 51900 lm / 43300 lm / 34800 lm
Luminous efficacy	136 lm/W / 137 lm/W / 141 lm/W
Color temperature	3000 K
Light color (designation)	Warm White
Color rendering index Ra	> 80
Standard deviation of color matching	5 sdc <sub>m</sub>
Luminous intensity	297808 cd
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	20 °



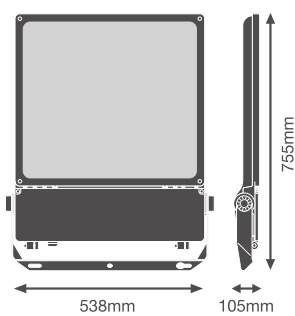
FL FLEX DA/P 450W ML 830 R20 WAL



FL FLEX P 450W ML 830 R20 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
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 <sup>1)</sup>
Lifespan L80/B10 at 25 °C	100000 h <sup>1)</sup>
Lifespan L80/B50 at 25 °C	100000 h
Lifespan L90/B10 at 25 °C	50000 h
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)

### 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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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 R20 WAL LEDV
	LDT file (Eulumdat)	FL FLEX P 450W ML 830 R20 WAL LEDV
	ULD file (DIALux)	FL FLEX P 450W ML 830 R20 WAL
	ROLF file (RELUX)	FL FLEX P 450W ML 830 R20 WAL
	Light distribution curve type cone	FL FLEX DA/P 450W ML 830 R20 WAL
	Light distribution curve type polar	FL FLEX P 450W ML 830 R20 WAL LEDV

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

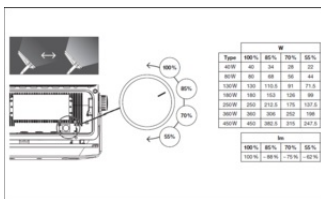
Tender texts		Document name
	Tender documents	FLOODLIGHT FLEX RADIAL SYMMETRIC 20 450W ML 830 R20 WAL-en

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854373961	Shipping box 1	837 mm x 577 mm x 154 mm	18095.00 g	74.37 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.

**ADDITIONAL CATALOG INFORMATION**



**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.