PRODUCT DATASHEET
FL FLEX P 450W ML 840 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
- Luminous efficacy: up to 151 lm/W
- Multi Lumen function: 4 lumen steps selectable



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- 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

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TECHNICAL DATA

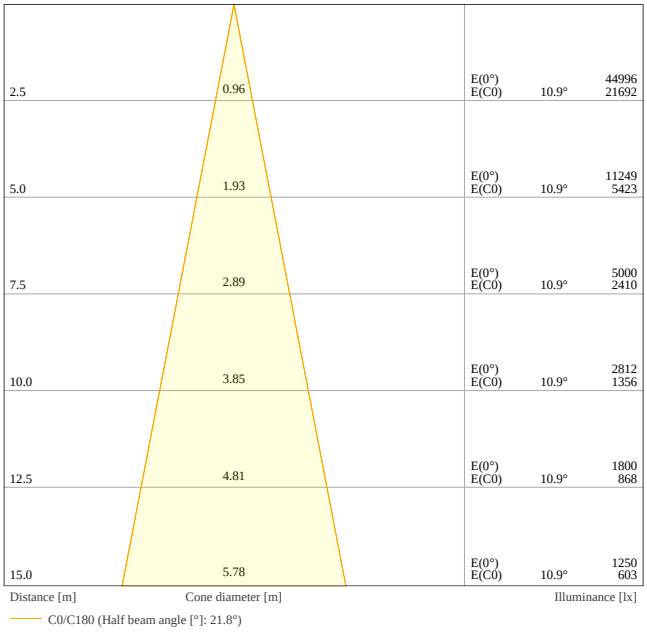
Electrical data

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 µs
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
Maximum 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

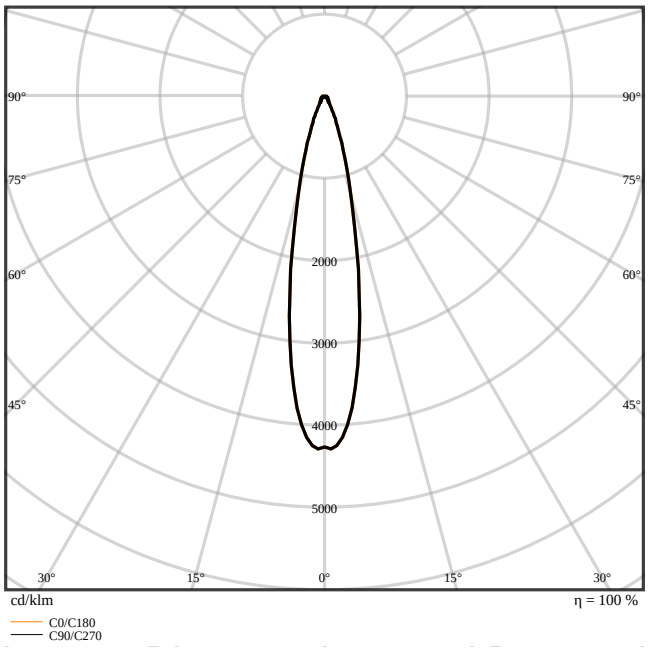
Photometrical data

Luminous flux	66000 lm / 56100 lm / 46900 lm / 37600 lm
Luminous efficacy	147 lm/W / 149 lm/W / 152 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	5 sdcm
Luminous intensity	318619 cd
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	0.4
Photobiological safety group acc. to EN62778	RG0
Photobiological safety group acc. to EN62471	RG0
Beam angle	20 °

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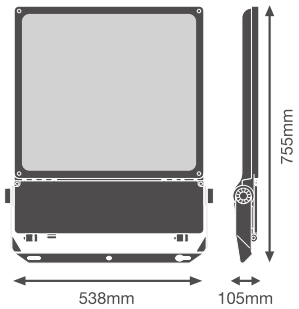
FL FLEX DA/P 450W ML 840 R20 WAL



FL FLEX P 450W ML 840 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

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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 High
Dimmable	No
Mounting type	Surface
Mounting location	Wall / Pole / Floor / Ceiling
Application environment	Outdoor
Mechanically 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 [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)

Control gear

Output current	6250 mA
Output ripple current (100 Hz)	< 10 %

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Certificates & Standards

Standards	CE / CB / ENEC / UKCA / EPD
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	Yes
EPD	LEDV-00046-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI LUMEN

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
PDF	User instruction / safety instructions	FL FLEX P ON-OFF
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11205497
PDF	Legal information	LSI FL FLEX
PDF	Legal information	Legal insert G11231557
PDF	Declarations of conformity	CE FL FLEX P

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	Documents and certificates	Document name
PDF	Declarations of conformity UKCA	UKCA FL FLEX P
PDF	Certificates	ENEC FL FLEX P
PDF	EPD	EPD EN FLOODLIGHT FLEX DALI

	Photometric and lighting design files	Document name
IES	IES file (IES)	FL FLEX P 450W ML 840 R20 WAL LEDV
LDT	LDT file (Eulumdat)	FL FLEX P 450W ML 840 R20 WAL LEDV
ULD	ULD file (DIALux)	FL FLEX P 450W ML 840 R20 WAL
ROLF	ROLF file (RELUX)	FL FLEX P 450W ML 840 R20 WAL
	Light distribution curve type cone	FL FLEX DA/P 450W ML 840 R20 WAL
	Light distribution curve type polar	FL FLEX P 450W ML 840 R20 WAL LEDV

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

	Tender texts	Document name
TXT	Tender documents	FLOODLIGHT FLEX RADIAL SYMMETRIC 20 450W ML 840 R20 WAL-en

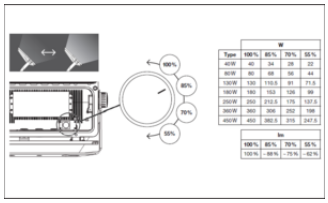
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854374043	Shipping box 1	837 mm x 577 mm x 154 mm	18095.00 g	74.37 dm^3

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.

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ADDITIONAL CATALOG INFORMATION



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.

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