

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
- 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

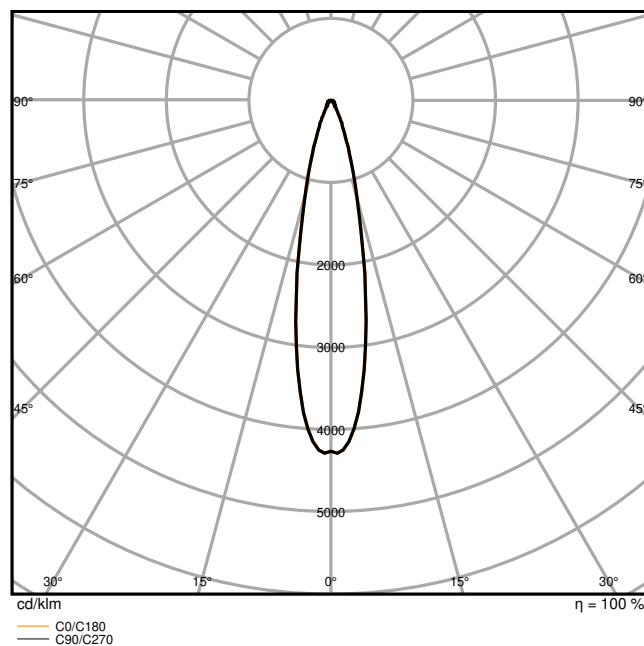
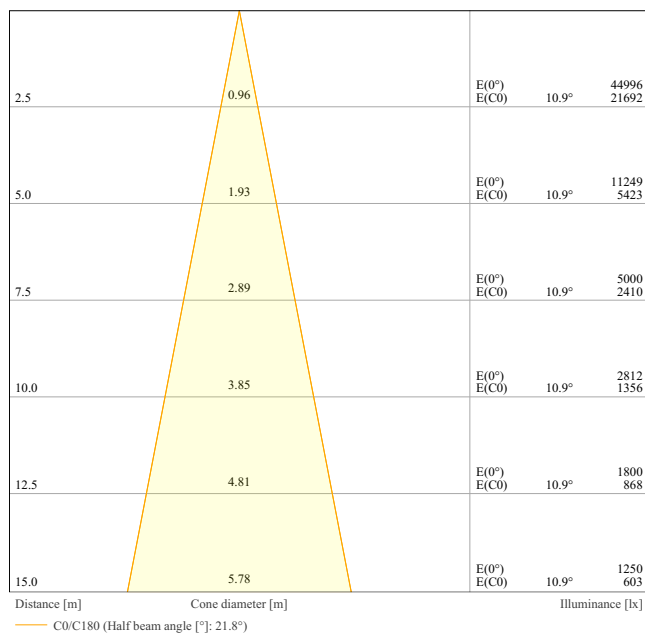
TECHNICAL DATA

Electrical data

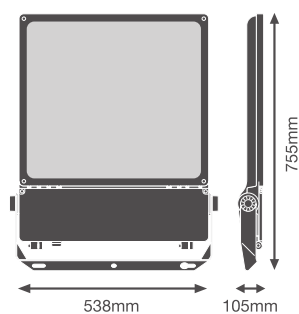
Nominal wattage	450 W / 382.5 W / 315 W / 247.5 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	2000.000 mA
Inrush current	200 A
Inrush current time T_{h50}	208 μ s
Max. number of luminaires per miniature circuit breaker B16	3
Max. number of luminaires per miniature circuit breaker 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	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 sdc _m
Luminous intensity	318619 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 °



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



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

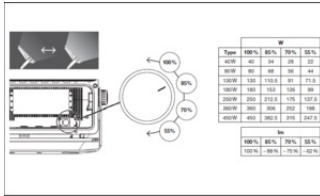
Documents and certificates		Document name
	Certificates	ENEC FL FLEX P
Photometric and lighting design files		Document name
	IES file (IES)	FL FLEX P 450W ML 840 R20 WAL LEDV
	LDT file (Eulumdat)	FL FLEX P 450W ML 840 R20 WAL LEDV
	ULD file (DIALux)	FL FLEX P 450W ML 840 R20 WAL
	ROLF file (RELUX)	FL 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
	BIM Revit 3D	Floodlight Flex
	CAD STEP 3D	FL FLEX 450W
Tender texts		Document name
	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.

ADDITIONAL CATALOG INFORMATION



	W			
Type	100%	85%	70%	55%
40W	40	34	28	22
80W	80	68	56	44
130W	130	110.5	91	71.5
180W	180	153	126	99
250W	250	212.5	175	137.5
300W	300	300	252	198
450W	450	382.5	315	247.5

	I _{iso}			
	100%	85%	70%	55%
100%	-	-88%	-75%	-62%

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.