PRODUCT DATASHEET
FL FLEX DA P 450W 840 R20 WAL

FLOODLIGHT FLEX DALI RADIAL SYMMETRIC 20 | High lumen DALI D4i floodlights with radial symmetric light distribution for high mast area lighting



PERFOR-MANCE CLASS

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 147 lm/W
- DALI D4i drivers for smart city applications

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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

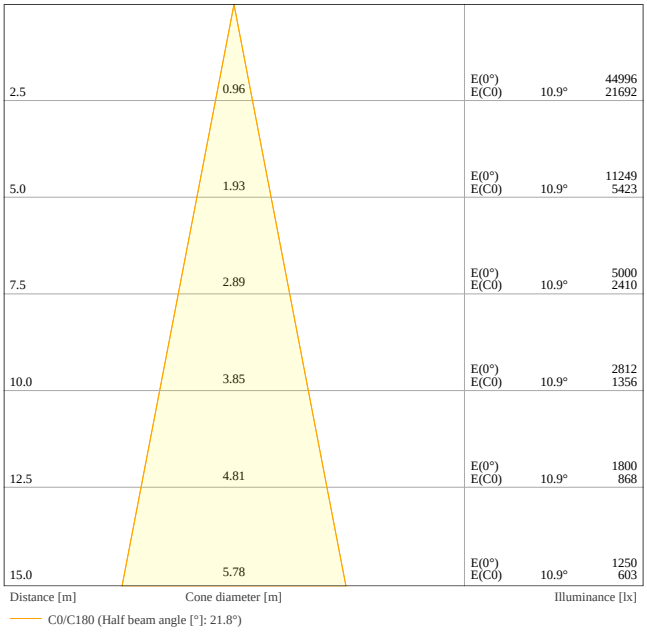
Electrical data

Nominal wattage	450.00 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	1990.000 mA
Inrush current	14.5 A
Inrush current time T_{h50}	2000 µs
Max. number of luminaires per miniature circuit breaker B16	4
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
Dimming interface	DALI-2 / DALI D4i / IoT

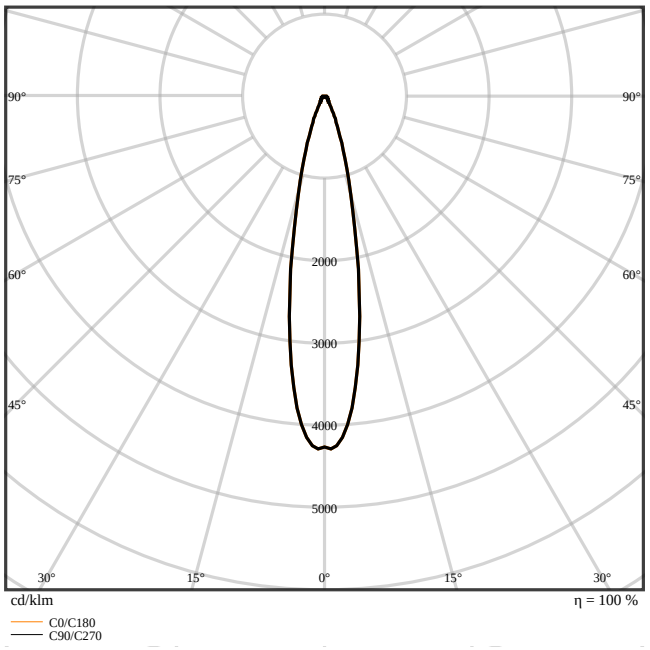
Photometrical data

Luminous flux	66000 lm
Luminous efficacy	147 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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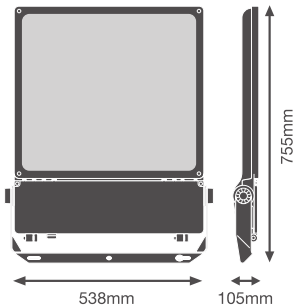
FL FLEX DA/P 450W ML 840 R20 WAL



FL FLEX DA P 450W 840 R20 WAL LEDV

Dimensions & Weight

Length	755.00 mm
Width	538.00 mm
Height	105.00 mm
Product weight	15900.00 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	Yes
Type of dimming	DALI D4i
Dimming range	5…100 %
IoT ready	Support of DALI data type PART 251, 252, 253 [1)]
Mounting type	Surface
Mounting location	Wall / Pole / Floor / Ceiling
Application environment	Outdoor
Mechanically adjustable	Yes
With light source	Yes
Replaceable light source	No

1) Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

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)

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Control gear

Output current	10000 mA
Output ripple current (100 Hz)	< 10 %

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	VIVARES

Accessories Optional

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

Components for light control

Components Light Control

Product image	Product name	EAN
	MANUAL CONTROL UNIT GROUP DALI-2 TW	4099854748691
	MANUAL CONTROL UNIT SELECT DALI-2	4058075837485
	MANUAL CONTROL UNIT SELECT DALI-2 TW	4058075837508

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Product image	Product name	EAN
	MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW	4058075837522
	MANUAL CONTROL UNIT TOUCH DALI-2 TW	4058075837560
	MANUAL CONTROL UNIT TOUCH DALI-2	4058075837546
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584
	PUSH CONTROL UNIT FM DALI-2 DIM	4099854846922
	SURFACE MOUNT FRAME	4058075843561
	PUSHBUTTON COUPLER DALI-2	4058075837607
	FLEX CONTROL UNIT IOT DALI-2 HCL TW	4058075841888
	FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075841901
	FLEX CONTROL UNIT DALI-2 TW	4058075843844
	FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW	4058075841925

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Product image	Product name	EAN
	SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION	4058075837621
	SENSOR CEILING MOUNTING KIT LIGHT/PRESENCE-6	4099854748714
	SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION	4058075841949
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868
	SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING	4058075843882
	HIGHBAY SENSOR DALI-2 LIGHT/PRESENCE -21 INFRARED CEILING MOUNTING	4058075857537
	DALI sensors -8 IR CI, -40X5 IR CI, -24 IR CM, -21 IR CM	4058075843905
	RELAY DALI-2 RAIL MOUNTING	4099854709159
	RELAY DALI-2 CEILING MOUNTING	4099854709135
	REPEATER DALI-2 RAIL MOUNTING	4099854709111
	REPEATER DALI-2 CEILING MOUNTING	4099854709098

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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 DALI
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11205497
PDF	Legal information	LSI FL FLEX DALI
PDF	Legal information	FL FLEX DA P
PDF	Declarations of conformity	CE FL FLEX P
PDF	Declarations of conformity UKCA	UKCA FL FLEX P
PDF	Certificates	ENEC FL FLEX P
PDF	EU Data Act	DALI LED Driver and Luminaires
PDF	EPD	EPD EN FLOODLIGHT FLEX DALI

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

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	Photometric and lighting design files	Document name
	Light distribution curve type polar	FL FLEX DA P 450W 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 DALI RADIAL SYMMETRIC 20 450W 840 R20 WAL-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854374128	Shipping box 1	837 mm x 577 mm x 154 mm	18495.00 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.

References / Links

– For Guarantee see www.ledvance.com/guarantee

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