

# PRODUCT DATASHEET

## FL 20 P 17W 2K4LM 830 PS SY100 BK

FLOODLIGHT 20 | Versatile floodlight with up to 2400 lm light output



PERFOR-  
MANCE  
CLASS

### Areas of application

- Replacement for floodlights with halogen lamps
- Outdoor use (IP66)
- D-sign according to EN 60598-2-24 for fire-risk commercial unit, e.g. by accumulation of dust
- Public areas
- Building facades
- Construction areas
- Parking
- Gardens and balconies

### Product benefits

- Breather membrane to optimize air exchange, without compromising IP protection
- Highly versatile due to selectable power steps (Multi Lumen) on the housing
- Robust cable gland with integrated waterstop function
- Safe and very uniform illumination, due to frosted and tempered glass diffuser
- Bright, robust and durable
- Energy savings of up to 90 % compared to halogen lamp floodlights
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt

### Product features

- High luminous efficacy: up to 145 lm/W
- Type of protection: IP66
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm<sup>2</sup> single wires
- Reflector-based, symmetric light distribution with 100° x 100° beam angle
- Mounting bracket with 30° angle and wide rotation area

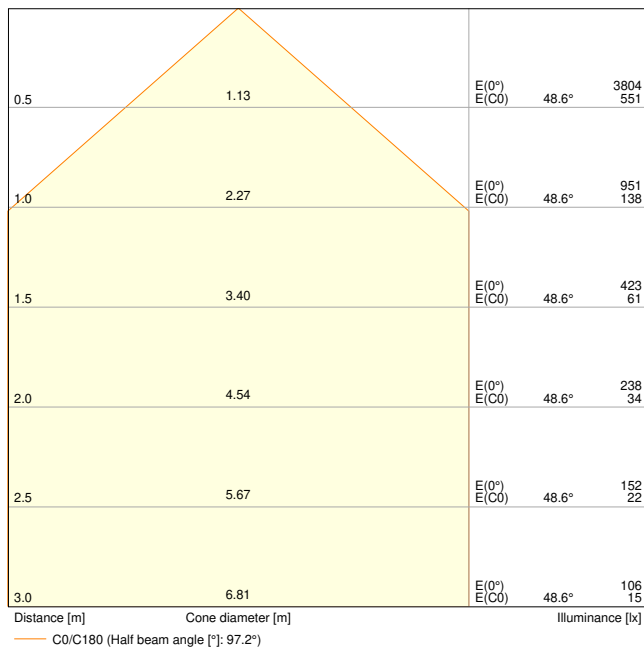
## TECHNICAL DATA

### Electrical data

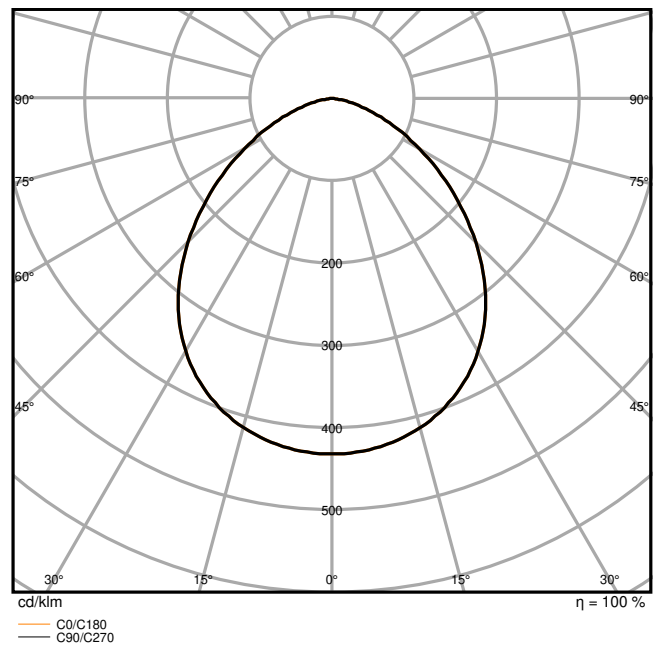
Nominal wattage	17 W / 11 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	75 /
Inrush current	7.32 A
Inrush current time $T_{h50}$	23.4 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	102
Max. number of luminaires per miniature circuit breaker C10	81
Max. number of luminaires per miniature circuit breaker C16	131
Power factor $\lambda$	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Surge capability (L-N)	2 kV
Surge capability (L/N-Ground)	4 kV
Operating mode	Integrated LED driver

### Photometrical data

Luminous flux	2200 lm / 1465 lm
Luminous efficacy	133 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>
Stroboscope effect metric (SVM)	≤0.9
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	100 ° x 100 °



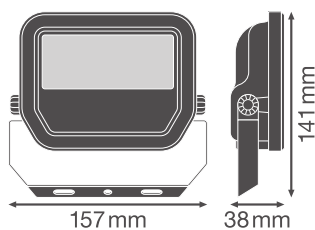
FL 20 P 17W 2K4LM 830 PS SY100 BK



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### Dimensions & Weight

Length	157.00 mm
Width	38.00 mm
Height	141.00 mm
Product weight	526.00 g
Cable length	1000 mm



FL 20 P SY100

### Materials & Colors

Product color	Black
Housing color	Black

Body material	Aluminum
Cover material	Glass
Light emitting surface material	Glass
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

### Application & Mounting

Ambient temperature range	-30...+50 °C
Temperature range at storage	-40...+70 °C
Type of connection	Cable, 3-pole
Type of protection	IP66
Protection class IK (shock resistance)	IK07
Corrosion resistance class acc. to EN 12944	C4
Dimmable	No
Mounting type	Surface
Mounting location	Wall / Ceiling / Floor
Application environment	Outdoor
Adjustable	Yes
LED module replaceable	Not replaceable
With light source	Yes

### Lifespan

Lifespan L70/B50 at 25 °C	100000 h <sup>1)</sup>
Lifespan L80/B10 at 25 °C	75000 h <sup>1)</sup>
Lifespan L90/B10 at 25 °C	35000 h

<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	133 mA
ECG - Output ripple current	< 20 %

### Certificates & Standards

Standards	CE / CB / ENEC / EAC / UKCA
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	No















### Additional product data

Product remark	Available from September 2024
Added function	MULTI SELECT

## Safety advice

– Max. wind load surface 0.015 m<sup>2</sup>

## DOWNLOAD DATA

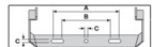
Documents and certificates		Document name
	User Instruction	G11193706_UI_Floodlight_08W-41W
	Legal information	LI_JP_L1D1_T_G11195894
	Legal information	Insert_LSI_Floodlight_8_41w_G11195967
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	FLOODLIGHT GEN4
	Declarations Of Conformity UKCA	FLOODLIGHT GEN4
Photometric and lighting design files		Document name
	IES file (IES)	FL 20 P 17W 2K4LM 830 PS SY100 BK
	LDT file (Eulumdat)	FL 20 P 17W 2K4LM 830 PS SY100 BK
	UGR file (UGR table)	FL 20 P 17W 2K4LM 830 PS SY100 BK
	LDC typ cone	FL 20 P 17W 2K4LM 830 PS SY100 BK
	LDC typ polar	FL 20 P 17W 2K4LM 830 PS SY100 BK
CAD/BIM files		Document name
	BIM_Revit_3D	Floodlight G4
	CAD_STEP_3D	FL G4 17W
Tender texts		Document name
	Tender documents	FLOODLIGHT 20 17W 2K4LM 830 PS SY100 BK-EN

## LOGISTICAL DATA

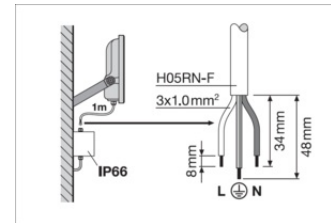
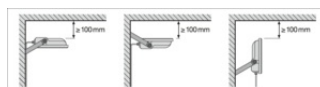

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854305788	Folding box 1	64 mm x 162 mm x 150 mm	585.00 g	1.56 dm <sup>3</sup>
4099854305795	Shipping box 12	402 mm x 338 mm x 175 mm	7604.00 g	23.78 dm <sup>3</sup>

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



					230 Vac			
A	B	C	Φ	Lighting area [m <sup>2</sup> ]	C10A	B10A	C10A	
8W	68	48	5.5	2x MA	0.012 m <sup>2</sup>	78	98	125
17W	78	58	6.5	2x MS	0.015 m <sup>2</sup>	81	102	131
41W	108	78	8.5	2x MS	0.025 m <sup>2</sup>	40	50	64

FL 10 P 8W 10xLM 830 PS SY100	8 W / 780 nm	8 W / 1100 nm
FL 10 P 17W 10xLM 840 PS SY100	8 W / 800 nm	8 W / 1000 nm
FL 10 P 17W 10xLM 840 PS SY100	8 W / 800 nm	8 W / 1000 nm
FL 20 P 17W 2K4LM 830 PS SY100	13 W / 780 nm	17 W / 2000 nm
FL 20 P 17W 2K4LM 840 PS SY100	13 W / 780 nm	17 W / 2000 nm
FL 20 P 41W 2K4LM 840 PS SY100	27 W / 800 nm	41 W / 1000 nm
FL 20 P 41W 2K4LM 840 PS SY100	27 W / 800 nm	41 W / 1000 nm
FL 20 P 41W 2K4LM 840 PS SY100	27 W / 800 nm	41 W / 1000 nm

### References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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