

# PRODUCT DATASHEET

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

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

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**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 °      |



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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 | White |
| Housing color | White |

|                                            |          |
|--------------------------------------------|----------|
| 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 m²

DOWNLOAD DATA

| Documents and certificates                                                       |                                 | Document name                         |
|----------------------------------------------------------------------------------|---------------------------------|---------------------------------------|
|  | User Instruction                | G11193706_UI_Floodlight_08W-41W       |
|  | Addon Technical Information     | Insert_LSI_Floodlight_8_41w_G11195967 |
|  | Legal information               | LI_JP_L1D1_T_G11195894                |
|  | 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 WT |
|  | LDT file (Eulumdat)  | FL 20 P 17W 2K4LM 830 PS SY100 WT |
|  | UGR file (UGR table) | FL 20 P 17W 2K4LM 830 PS SY100 WT |
|  | LDC typ cone         | FL 20 P 17W 2K4LM 830 PS SY100 WT |
|  | LDC typ polar        | FL 20 P 17W 2K4LM 830 PS SY100 WT |

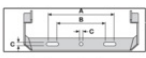
| CAD/BIM files                                                                      |              | Document name |
|------------------------------------------------------------------------------------|--------------|---------------|
|  | BIM_Revit_3D | Floodlight G4 |
|  | CAD_STEP_3D  | FL G4 17W     |

LOGISTICAL DATA

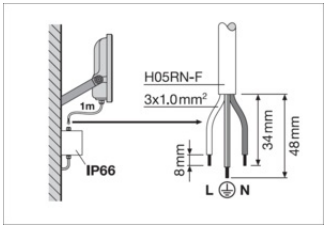
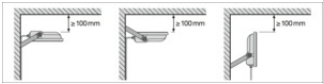
| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4099854305801 | Folding box<br>1             | 64 mm x 162 mm x 150 mm              | 585.00 g     | 1.56 dm³  |
| 4099854305818 | Shipping box<br>12           | 402 mm x 338 mm x 175 mm             | 7604.00 g    | 23.78 dm³ |

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



|     | A   | B  | C   |       | 230Vac |
|-----|-----|----|-----|-------|--------|
| 8W  | 68  | 48 | 5.5 | 2x M4 |        |
| 17W | 78  | 58 | 6.5 | 2x M5 |        |
| 41W | 108 | 78 | 8.5 | 2x M6 |        |



| FL 10 P 8W 40LM 830 PS SY100  | 8 W / 760 lm   | 8 W / 1000 lm  |  |  |  |
|-------------------------------|----------------|----------------|--|--|--|
| FL 10 P 8W 40LM 830 PS SY100  | 8 W / 760 lm   | 8 W / 1000 lm  |  |  |  |
| FL 10 P 8W 40LM 830 PS SY100  | 8 W / 760 lm   | 8 W / 1000 lm  |  |  |  |
| FL 20 P 17W 83LM 830 PS SY100 | 17 W / 1520 lm | 17 W / 2000 lm |  |  |  |
| FL 20 P 17W 83LM 830 PS SY100 | 17 W / 1520 lm | 17 W / 2000 lm |  |  |  |
| FL 20 P 17W 83LM 830 PS SY100 | 17 W / 1520 lm | 17 W / 2000 lm |  |  |  |
| FL 41W 354LM 830 PS SY100     | 41 W / 3540 lm | 41 W / 5000 lm |  |  |  |
| FL 41W 354LM 830 PS SY100     | 41 W / 3540 lm | 41 W / 5000 lm |  |  |  |
| FL 41W 354LM 830 PS SY100     | 41 W / 3540 lm | 41 W / 5000 lm |  |  |  |

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.