

# PRODUCT DATASHEET

## FL 20 P 17W 2K4LM 840 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

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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                                             | 75/60 mA              |
| 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                                | 2400 lm / 1600 lm  |
| Luminous efficacy                            | 145 lm/W           |
| Color temperature                            | 4000 K             |
| Light color (designation)                    | Cool 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 | Black |
| Housing color | Black |

|                                            |          |
|--------------------------------------------|----------|
| RAL-Number                                 | RAL 9017 |
| 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                    |
| With light source                           | Yes                    |
| Replaceable light source                    | No                     |

### Lifespan

|                           |                        |
|---------------------------|------------------------|
| Lifespan L70/B50 at 25 °C | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C | 75000 h <sup>1)</sup>  |
| Lifespan L80/B50 at 25 °C | 70000 h                |
| 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 / EPD |
| Luminaire with limited surface temperature, "D sign" | Yes                               |
| Ball shot safe                                       | No                                |
| EPD                                                  | LEDV-00031-V01.01-EN              |
| Replaceable light source (EPREL)                     | Not replaceable                   |

Additional product data

|                |              |
|----------------|--------------|
| Added function | MULTI SELECT |
|----------------|--------------|

Safety advice

– Max. wind load surface 0.015 m²

DOWNLOAD DATA

| Documents and certificates                                                          |                                        | Document name                         |
|-------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------|
|    | User instruction / safety instructions | G11193706_UI_Floodlight_08W-41W       |
|    | Legal information                      | Insert_LSI_Floodlight_8_41w_G11195967 |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG    |
|    | Legal information                      | Safety Insert G11205496               |
|  | Legal information                      | Legal Insert G11257402                |
|  | 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 840 PS SY100 BK     |
|  | LDT file (Eulumdat)                    | FL 20 P 17W 2K4LM 840 PS SY100 BK     |
|  | ULD file (DIALux)                      | FL 20 P 17W 2K4LM 840 PS SY100 BK     |
|  | ROLF file (RELUX)                      | FL 20 P 17W 2K4LM 840 PS SY100 BK     |
|  | UGR file (UGR table)                   | FL 20 P 17W 2K4LM 840 PS SY100 BK     |
|  | Light distribution curve type cone     | FL 20 P 17W 2K4LM 840 PS SY100 BK     |
|  | Light distribution curve type polar    | FL 20 P 17W 2K4LM 840 PS SY100 BK     |
| CAD/BIM files                                                                       |                                        | Document name                         |
|  | BIM Revit 3D                           | Floodlight G4                         |

| CAD/BIM files                                                                    |                  | Document name                              |
|----------------------------------------------------------------------------------|------------------|--------------------------------------------|
|  | CAD STEP 3D      | FL G4 17W                                  |
| Tender texts                                                                     |                  | Document name                              |
|  | Tender documents | FLOODLIGHT 20 17W 2K4LM 840 PS SY100 BK-EN |

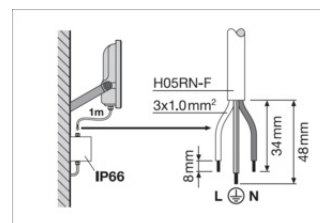
## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854305825 | Folding box<br>1             | 64 mm x 162 mm x 150 mm              | 585.00 g     | 1.56 dm <sup>3</sup>  |
| 4099854305832 | Shipping box<br>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   |         | C10A | B15A |
| 8W  | 68  | 48 | 5.5 | 2x M4   | 78   | 98   |
| 17W | 78  | 58 | 6.5 | 2x M5   | 81   | 102  |
| 41W | 108 | 78 | 8.5 | 2x M6   | 40   | 50   |



| Product code                      | Power (W) | Beam angle (°) | Color temperature (K) | Life span (h) |
|-----------------------------------|-----------|----------------|-----------------------|---------------|
| FL 20 P 8W 2K4LM 840 PS SY100 BK  | 8         | 120            | 4000                  | 50000         |
| FL 20 P 17W 2K4LM 840 PS SY100 BK | 17        | 120            | 4000                  | 50000         |
| FL 20 P 41W 2K4LM 840 PS SY100 BK | 41        | 120            | 4000                  | 50000         |

## References / Links

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

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