

# PRODUCT DATASHEET

## FL 20 P 17W 2K4LM 865 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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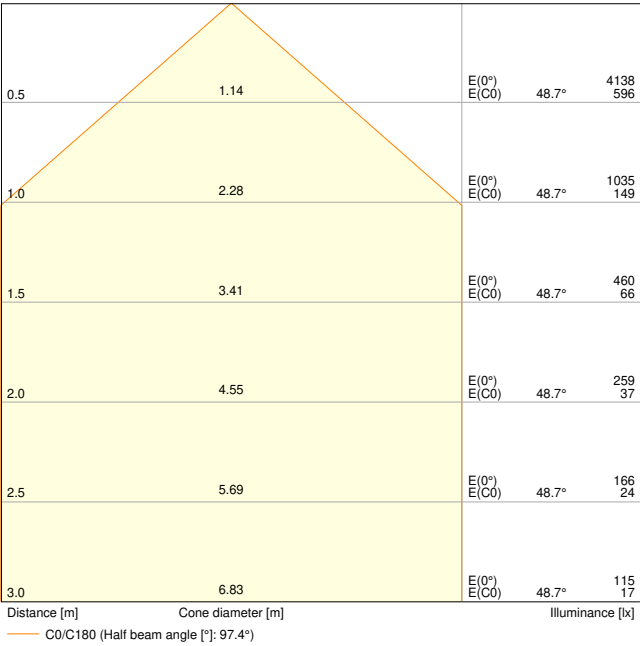
## TECHNICAL DATA

### Electrical data

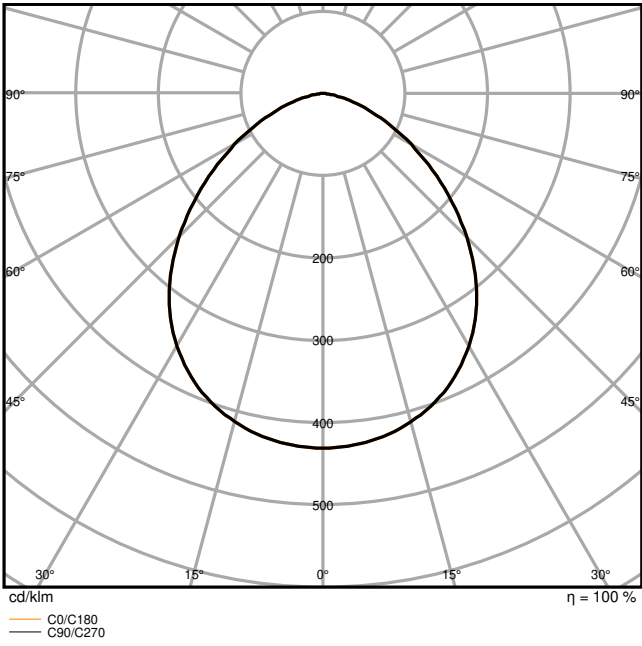
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 17 W / 11 W           |
| Nominal voltage                                             | 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                            | 6500 K             |
| Light color (designation)                    | Cool Daylight      |
| 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 Color (most similar)                   | 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                       |
|  | EPD                                    | EPD EN FLOODLIGHT GEN 4 LP SENSOR     |

| Photometric and lighting design files                                               |                                     | Document name                     |
|-------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------|
|  | IES file (IES)                      | FL 20 P 17W 2K4LM 865 PS SY100 BK |
|  | LDT file (Eulumdat)                 | FL 20 P 17W 2K4LM 865 PS SY100 BK |
|  | ULD file (DIALux)                   | FL 20 P 17W 2K4LM 865 PS SY100 BK |
|  | ROLF file (RELUX)                   | FL 20 P 17W 2K4LM 865 PS SY100 BK |
|  | UGR file (UGR table)                | FL 20 P 17W 2K4LM 865 PS SY100 BK |
|  | Light distribution curve type cone  | FL 20 P 17W 2K4LM 865 PS SY100 BK |
|  | Light distribution curve type polar | FL 20 P 17W 2K4LM 865 PS SY100 BK |

