

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 mm² single wires
- Reflector-based, symmetric light distribution with 100° x 100° beam angle
- Mounting bracket with 30° angle and wide rotation area

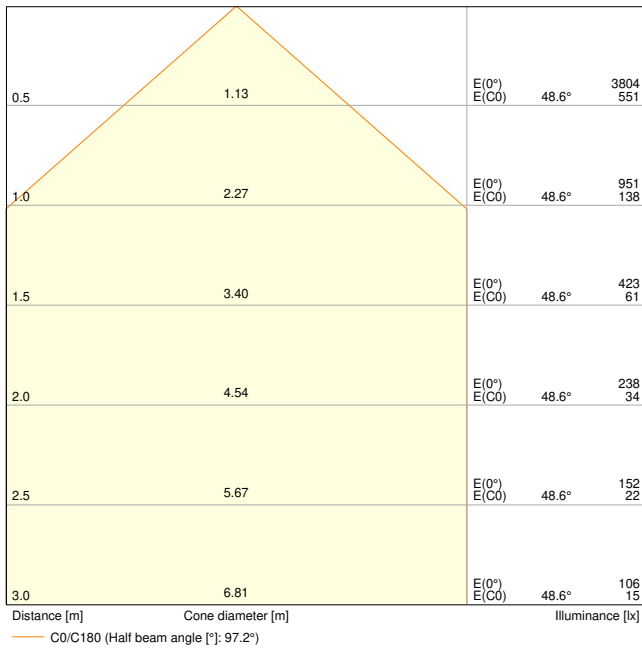
TECHNICAL DATA

Electrical data

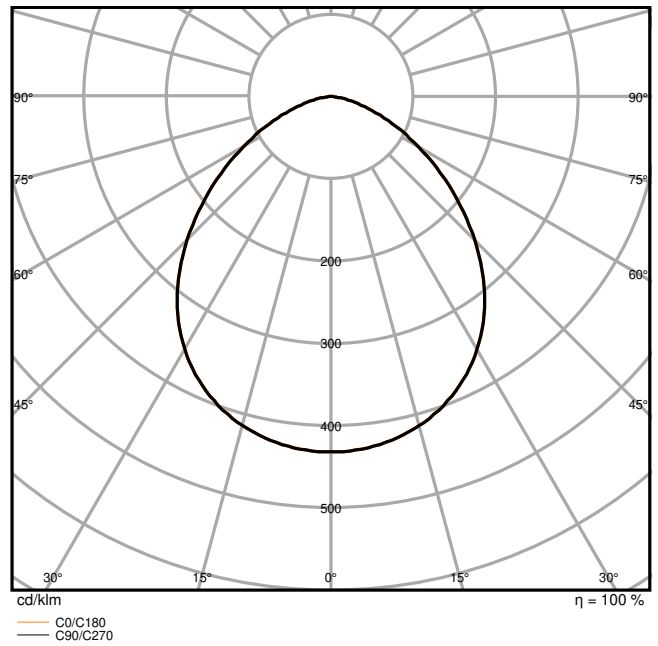
| | |
|---|-----------------------|
| Nominal wattage | 17 W / 11 W |
| Nominal voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Nominal current | 75/60 mA |
| Inrush current | 7.32 A |
| Inrush current time T_{h50} | 23.4 μ s |
| Max. number of luminaires per miniature circuit breaker B16 | 102 |
| Max. number of luminaires per miniature circuit breaker C10 | 81 |
| Max. number of luminaires per miniature circuit breaker C16 | 131 |
| Power factor λ | > 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 _m |
| 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 ° |



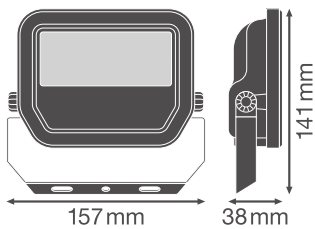
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Dimensions & Weight

| | |
|----------------|-----------|
| 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 |

| | |
|--|----------|
| 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 ¹⁾ |
| Lifespan L80/B10 at 25 °C | 75000 h ¹⁾ |
| Lifespan L80/B50 at 25 °C | 70000 h |
| Lifespan L90/B10 at 25 °C | 35000 h |

¹⁾ 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

| | |
|----------------|--------------|
| 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 | LI_JP_L1D1_T_G11195894 |
|  | Legal information | Insert_LSI_Floodlight_8_41w_G11195967 |
|  | Legal information | Informationstext 18 Abs 4 ElektroG |
|  | Legal information | Safety Insert FL PS SY100 |
|  | 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 |
|  | ROLF file (RELUX) | 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 |

