

# PRODUCT DATASHEET

## FL PFM 50 W 4000 K SYM 100 S BK

FLOODLIGHT SENSOR 50 W | Floodlight with flexible motion and daylight sensor, up to 6000 lm light output



### Areas of application

- Replacement for floodlights with halogen lamps
- Outdoor use (IP65)
- Public areas
- Building facades
- Construction areas
- Gardens, balconies and other outdoor areas

### Product benefits

- Bright, robust and durable
- Demand optimized illumination due to flexible and programmable sensor
- Easy adjustment of sensor range, daylight detection and hold time
- Always-on override, activated via special mains switching pattern
- Safe and very uniform illumination, due to frosted and tempered glass diffuser
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt
- Energy savings of up to 90 % compared to halogen lamp floodlights
- 5 years guarantee

### Product features

- Flexible motion and daylight sensor
- Sensor with 350° pan and 180° tilt
- Reflector-based, symmetric light distribution with 100° x 100° beam angle
- Integrated wide voltage driver, suitable for 100 - 277 V AC
- Surge protection: up to 4 kV (L/N-PE), 2 kV (L-N)



- Mounting bracket with 30° angle and wide rotation area
- Breather membrane to optimize air exchange, without compromising IP protection
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm<sup>2</sup> single wires

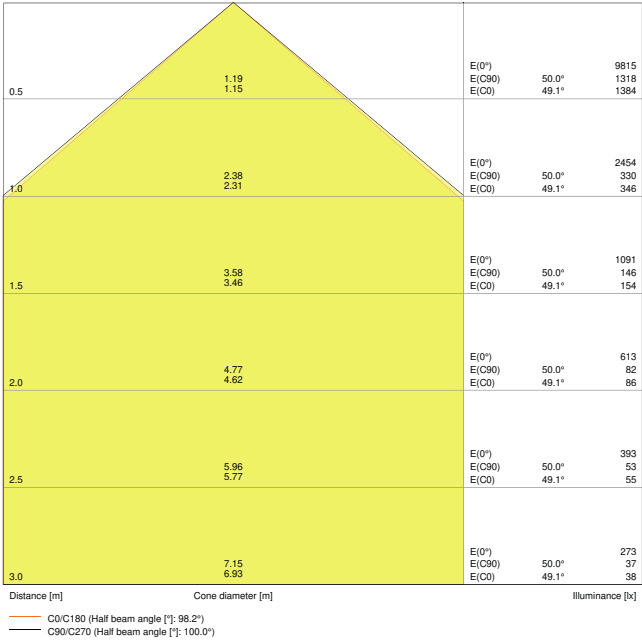
---

**TECHNICAL DATA****Electrical data**

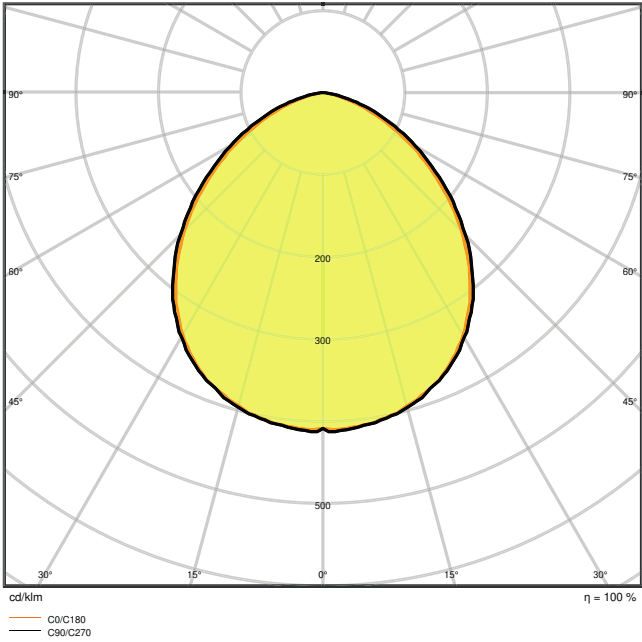
|                                          |                       |
|------------------------------------------|-----------------------|
| Nominal wattage                          | 50.00 W               |
| Nominal voltage                          | 100...277 V           |
| Mains frequency                          | 50...60 Hz            |
| Nominal current                          | 248 mA                |
| Inrush current                           | 9.6 A                 |
| Inrush current time $T_{h50}$            | 46.5 $\mu$ s          |
| Max. no. of lum. on circuit break. B16 A | 35                    |
| Max. no. of lum. on circuit break. C10 A | 25                    |
| Max. no. of lum. on circuit break. C16 A | 41                    |
| Power factor $\lambda$                   | > 0.90                |
| Total harmonic distortion                | < 20 %                |
| Protection class                         | I                     |
| Operating mode                           | Integrated LED driver |

**Photometrical data**

|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 6000 lm                   |
| Luminous efficacy                            | 120 lm/W                  |
| Color temperature                            | 4000 K                    |
| Light color (designation)                    | Cool White                |
| Color rendering index Ra                     | $\geq 80$                 |
| Standard deviation of color matching         | $\leq 5$ sdc <sub>m</sub> |
| Luminous intensity                           | -                         |
| Flickering metric (Pst LM)                   | -                         |
| Stroboscope effect metric (SVM)              | -                         |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Photobiological safety group acc. to EN62471 | RG1                       |
| Beam angle                                   | 100 ° x 100 °             |



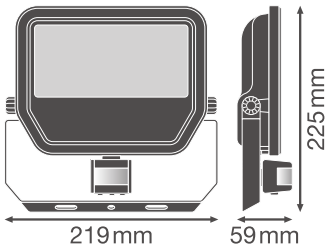
LDC typ cone



LDC typ polar

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 225.00 mm |
| Width          | 219.00 mm |
| Height         | 59.00 mm  |
| Product weight | 1060.00 g |
| Cable length   | 1000 mm   |



Materials & Colors

|                                            |          |
|--------------------------------------------|----------|
| Product color                              | Black    |
| Housing color                              | Black    |
| Body material                              | Aluminum |
| 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                     | IP65            |
| Protection class IK (shock resistance) | IK07            |
| Dimmable                               | No              |
| Mounting type                          | Surface         |
| Mounting location                      | Wall / Ceiling  |
| Application environment                | Outdoor         |
| Adjustable                             | Yes             |
| LED module replaceable                 | Not replaceable |
| With light source                      | Yes             |

### Lifespan

|                            |         |
|----------------------------|---------|
| Lifespan L70/B50 at 25 °C  | 70000 h |
| Lifespan L80/B10 at 25 °C  | 55000 h |
| Lifespan L90/B10 at 25 °C  | 35000 h |
| Number of switching cycles | 100000  |

### Control gear

|                             |        |
|-----------------------------|--------|
| Output current              | 460 mA |
| ECG - Output ripple current | < 50 % |

### Sensor

|                                  |                            |
|----------------------------------|----------------------------|
| Type of sensor                   | Motion / Light             |
| Sensor technology                | Passive infrared/Photocell |
| Sensor detection angle           | 40 °...160 °               |
| Sensor controlled switching time | 10 s...12 min              |
| Detection range of motion sensor | 2...12 m                   |

|                                        |              |
|----------------------------------------|--------------|
| Detection threshold of daylight sensor | 10...2000 lx |
| Sensor IP rating                       | IP65         |

Certificates & Standards

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| Standards                                            | CE / CB / ENEC / EAC / RoHS |
| Luminaire with limited surface temperature, "D sign" | No                          |
| Ball shot safe                                       | No                          |

DOWNLOAD DATA

| DOWNLOAD DATA                                                                       |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
|     | User instruction                       |
|     | Addon Technical Information            |
|    | Tender documents                       |
|    | Declarations Of Conformity CE          |
|  | IES file (IES)                         |
|  | LDT file (Eulumdat)                    |
|  | R3D file (Relux 3D Model)              |
|   | M4D file (3D Model with rotation axis) |
|  | ULD file (DIALux)                      |
|  | UGR file (UGR table)                   |
|   | Packaging insert                       |

LOGISTICAL DATA

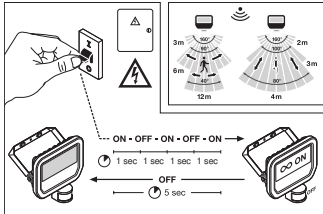
| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume   |
|---------------|------------------------------|--------------------------------------|--------------|----------|
| 4058075461031 | Folding box<br>1             | 65 mm x 225 mm x 233 mm              | 1181.00 g    | 3.41 dm³ |

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075461048 | Shipping box<br>8            | 459 mm x 271 mm x 249 mm             | 10142.00 g   | 30.97 dm <sup>3</sup> |

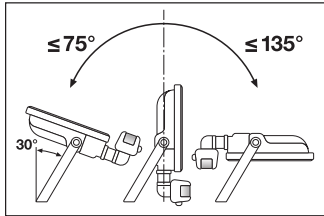
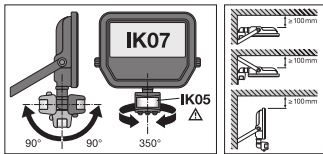
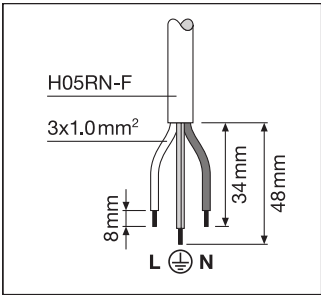
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION

|                                                                                   | SENS  | LUX  | TIME  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|  | ~2 m                                                                                   | <10 lx                                                                                | ~10 sec ±3 sec                                                                         |
|  | ~6 m                                                                                   | <100 lx                                                                               | ~5 min ±2 min                                                                          |
|  | ~12 m                                                                                  | <2000 lx                                                                              | ~12 min ±3 min                                                                         |



|     | A   | B  | C   | Light source | Beam angle |
|-----|-----|----|-----|--------------|------------|
| 10W | 56  | 38 | 5.5 | 2x MS        | 0.012 m²   |
| 20W | 78  | 58 | 6.5 | 2x MS        | 0.019 m²   |
| 50W | 108 | 78 | 8.5 | 2x MS        | 0.032 m²   |



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.