

# PRODUCT DATASHEET

## FL 50 SN P 41W 6KLM 830 PS SY100 WT

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



PERFOR-  
MANCE  
CLASS

### Areas of application

- Replacement for floodlights with halogen lamps
- Outdoor use (IP65)
- 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

- Demand optimized illumination due to flexible and programmable sensor
- Easy adjustment of sensor range, daylight detection, hold time and dimming function
- Always-on override, activated via special mains switching pattern
- 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

- Flexible motion and daylight sensor
- Sensor with 350° pan and 200° tilt
- High luminous efficacy: up to 145 lm/W
- Type of protection: IP65
- 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
- Integrated voltage driver, suitable for 220 - 240 V AC

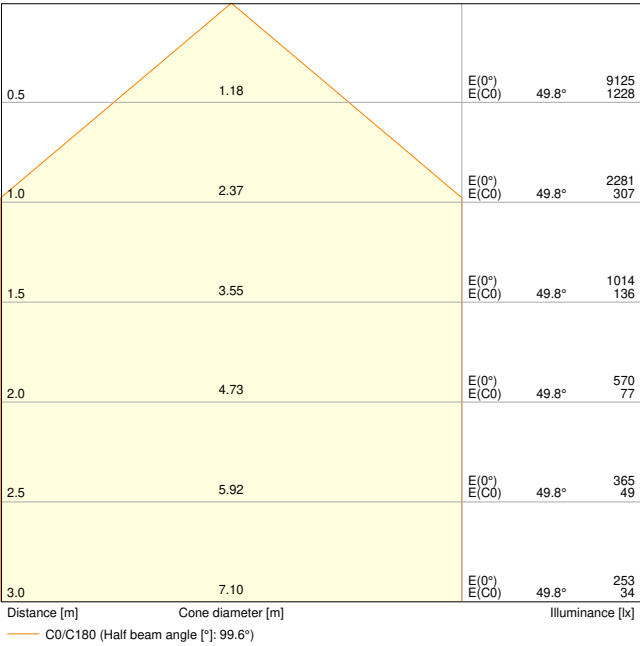
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**TECHNICAL DATA****Electrical data**

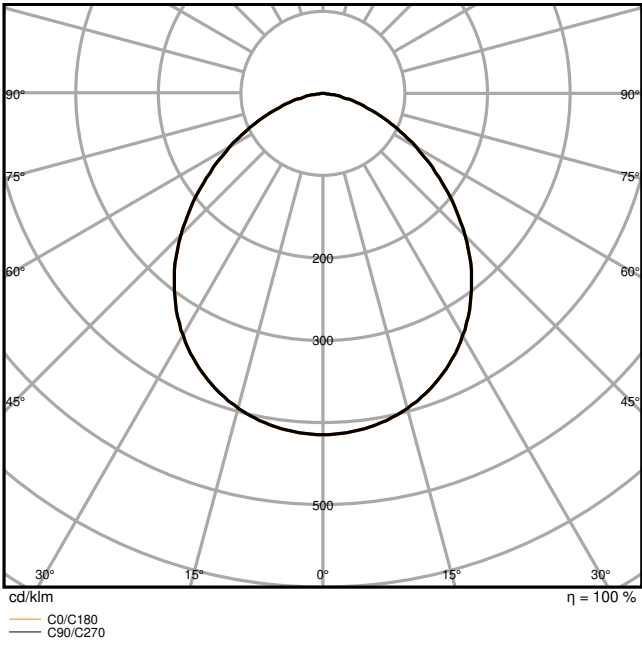
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 41 W / 27 W           |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 185/130 mA            |
| Inrush current                                              | 37.96 A               |
| Inrush current time $T_{h50}$                               | 33.8 $\mu$ s          |
| Max. number of luminaires per miniature circuit breaker B16 | 19                    |
| Max. number of luminaires per miniature circuit breaker C10 | 15                    |
| Max. number of luminaires per miniature circuit breaker C16 | 25                    |
| Power factor $\lambda$                                      | > 0.90                |
| Total harmonic distortion                                   | < 20 %                |
| Protection class                                            | I                     |
| Surge capability (L-N)                                      | 4 kV                  |
| Surge capability (L/N-Ground)                               | 6 kV                  |
| Operating mode                                              | Integrated LED driver |

**Photometrical data**

|                                              |                    |
|----------------------------------------------|--------------------|
| Luminous flux                                | 5500 lm / 3670 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         | 201.00 mm |
| Width          | 57.00 mm  |
| Height         | 219.00 mm |
| Product weight | 888.00 g  |
| Cable length   | 1000 mm   |



FL 50 SN 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                          | IP65           |
| Protection class IK (shock resistance)      | IK05           |
| Corrosion resistance class acc. to EN 12944 | C4             |
| Dimmable                                    | No             |
| Mounting type                               | Surface        |
| Mounting location                           | Wall / Ceiling |
| Application environment                     | Outdoor        |
| Adjustable                                  | Yes            |
| 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 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              | 320 mA |
| ECG - Output ripple current | < 20 % |

### Sensor

|                                        |                        |
|----------------------------------------|------------------------|
| Type of sensor                         | Motion / Light         |
| Sensor technology                      | Passive infrared (PIR) |
| 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 &amp; 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 0.027 m<sup>2</sup>

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                                    |
|------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------|
|   | User instruction / safety instructions | G11193708_UI_Floodlight_Sensor                   |
|  | Legal information                      | Insert_LSI_Floodlight_Sensor_Photocell_G11195969 |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG               |
|  | Legal information                      | Safety Insert G11205496                          |
|  | Legal information                      | Legal Insert FLOODLIGHT LUMS                     |
|  | Declarations of conformity             | FLOODLIGHT GEN4                                  |
|  | Declarations of conformity UKCA        | FLOODLIGHT GEN4                                  |

| Photometric and lighting design files                                              |                     | Document name                       |
|------------------------------------------------------------------------------------|---------------------|-------------------------------------|
|  | IES file (IES)      | FL 50 SN P 41W 6KLM 830 PS SY100 WT |
|  | LDT file (Eulumdat) | FL 50 SN P 41W 6KLM 830 PS SY100 WT |
|  | ULD file (DIALux)   | FL 50 SN P 41W 6KLM 830 PS SY100WT  |
|  | ROLF file (RELUX)   | FL 50 SN P 41W 6KLM 830 PS SY100WT  |

| Photometric and lighting design files                                             |                                     | Document name                                    |
|-----------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------|
|  | UGR file (UGR table)                | FL 50 SN P 41W 6KLM 830 PS SY100 WT              |
|   | Light distribution curve type cone  | FL 50 SN P 41W 6KLM 830 PS SY100 WT              |
|   | Light distribution curve type polar | FL 50 SN P 41W 6KLM 830 PS SY100 WT              |
| CAD/BIM files                                                                     |                                     | Document name                                    |
|   | BIM Revit 3D                        | Floodlight Sensor G4                             |
|   | CAD STEP 3D                         | FL G4 SEN 41W                                    |
| Tender texts                                                                      |                                     | Document name                                    |
|   | Tender documents                    | FLOODLIGHT SENSOR 50 41W 6KLM 830 PS SY100 WT-EN |

## LOGISTICAL DATA

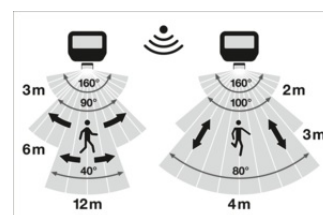
| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854306822 | Folding box<br>1             | 69 mm x 206 mm x 229 mm              | 985.00 g     | 3.26 dm <sup>3</sup>  |
| 4099854306839 | Shipping box<br>8            | 426 mm x 292 mm x 254 mm             | 8493.00 g    | 31.60 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

|                                                                                     | Motion activated |        |       |       | No motion activated |     |    |     |
|-------------------------------------------------------------------------------------|------------------|--------|-------|-------|---------------------|-----|----|-----|
|                                                                                     | LUX              | SENSOR | TIME  | LIGHT | ON                  | OFF | ON | OFF |
|  | ≥ +400lux        | ON     | 15min | ON    | 5%                  | ON  |    |     |
|                                                                                     | ≥ +100lux        | OFF    | 15min | ON    | 20%                 | ON  |    |     |
|                                                                                     | ≥ +100lux        | ON     | 15min | ON    | 40%                 | ON  |    |     |
|                                                                                     | ≥ +100lux        | ON     | 15min | ON    | 5%                  | OFF |    |     |
|  | ≥ +400lux        | ON     | 15min | ON    | 5%                  | ON  |    |     |
|                                                                                     | ≥ +100lux        | OFF    | 15min | ON    | 20%                 | ON  |    |     |
|                                                                                     | ≥ +100lux        | ON     | 15min | ON    | 40%                 | ON  |    |     |
|                                                                                     | ≥ +100lux        | ON     | 15min | ON    | 5%                  | OFF |    |     |

|                                  | 8 W / 100 lm     | 8 W / 1000 lm     |
|----------------------------------|------------------|-------------------|
| FL 50 SN P 41W 6KLM 830 PS SY100 | 8 W / 100 lm     | 8 W / 1000 lm     |
| FL 50 SN P 41W 6KLM 830 PS SY100 | 8 W / 1000 lm    | 8 W / 10000 lm    |
| FL 50 SN P 41W 6KLM 830 PS SY100 | 11 W / 1000 lm   | 11 W / 10000 lm   |
| FL 50 SN P 41W 6KLM 830 PS SY100 | 11 W / 10000 lm  | 11 W / 100000 lm  |
| FL 50 SN P 41W 6KLM 830 PS SY100 | 27 W / 10000 lm  | 27 W / 100000 lm  |
| FL 50 SN P 41W 6KLM 830 PS SY100 | 27 W / 100000 lm | 27 W / 1000000 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.