

# PRODUCT DATASHEET

## FL 200 PCELL P 133W 840 20KLM PS BK

FLOODLIGHT PHOTOCELL 200 | Floodlight with daylight sensor, up to 20000 lm



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

### Product benefits

- Automatically switches on and off according to the amount of available daylight
- 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
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt
- Energy savings of up to 90 % compared to halogen lamp floodlights

### Product features

- Daylight sensor, integrated in glass cover
- Switch on below 35 lux, switch off above 95 lux illuminance
- High luminous efficacy: up to 150 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
- Integrated voltage driver, suitable for 220 - 240 V AC

## TECHNICAL DATA

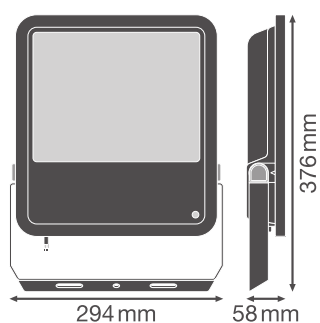
## Electrical data

|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 133 W / 117 W         |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 590 /                 |
| Inrush current                                              | 34.6 A                |
| Inrush current time $T_{h50}$                               | 552 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 4                     |
| Max. number of luminaires per miniature circuit breaker C10 | 4                     |
| Max. number of luminaires per miniature circuit breaker C16 | 7                     |
| 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

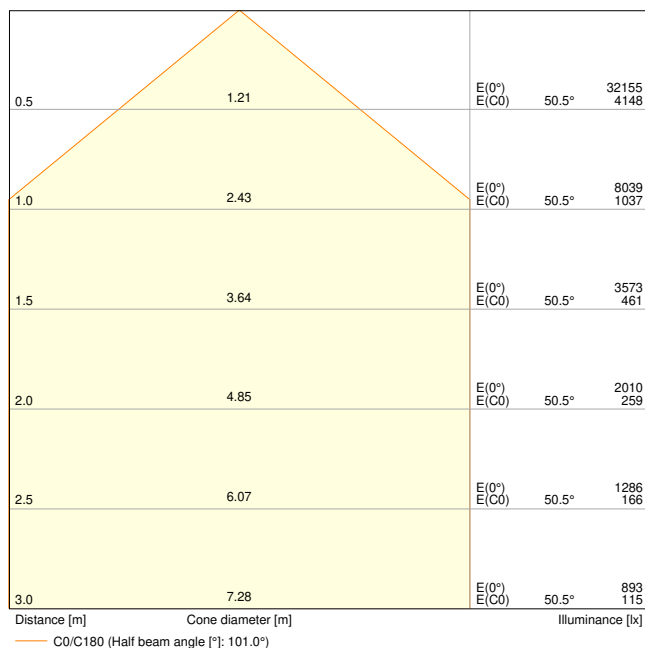
|                                              |                     |
|----------------------------------------------|---------------------|
| Luminous flux                                | 20000 lm / 17500 lm |
| Luminous efficacy                            | 150 lm/W            |
| Color temperature                            | 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 °       |

|                |           |
|----------------|-----------|
| Length         | 294.00 mm |
| Width          | 58.00 mm  |
| Height         | 376.00 mm |
| Product weight | 3484.00 g |
| Cable length   | 1000 mm   |

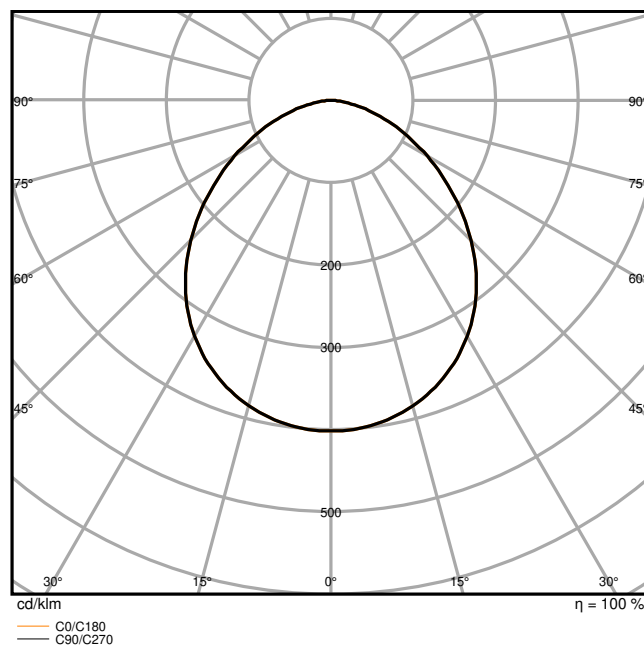


FL 200 PCELL 20KLM

|               |       |
|---------------|-------|
| Product color | Black |
| Housing color | Black |



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|                                            |          |
|--------------------------------------------|----------|
| 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)      | IK08                |
| Corrosion resistance class acc. to EN 12944 | C4                  |
| Dimmable                                    | No                  |
| Mounting type                               | Surface             |
| Mounting location                           | Wall / Pole / Floor |
| Application environment                     | Outdoor             |
| Adjustable                                  | Yes                 |
| LED module replaceable                      | Not replaceable     |
| 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 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              | 630 mA |
| ECG - Output ripple current | < 20 % |

### Sensor

|                                        |            |
|----------------------------------------|------------|
| Type of sensor                         | Light      |
| Sensor technology                      | Photocell  |
| Detection threshold of daylight sensor | 35...95 lx |
| Sensor IP rating                       | IP66       |

### Certificates & Standards

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| Standards                                            | CE / CB / ENEC / EAC / UKCA |
| Luminaire with limited surface temperature, "D sign" | Yes                         |

|                |    |
|----------------|----|
| Ball shot safe | No |
|----------------|----|

### Additional product data

|                |                               |
|----------------|-------------------------------|
| Product remark | Available from September 2024 |
| Added function | MULTI SELECT                  |

### Safety advice

– Max. wind load surface 0.085 m<sup>2</sup>

### DOWNLOAD DATA

| Documents and certificates                                                         |                                 | Document name                                    |
|------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------|
|    | User Instruction                | G11193709_UI_Floodlight_Photocell                |
|    | Addon Technical Information     | Insert_LSI_Floodlight_Sensor_Photocell_G11195969 |
|   | Legal information               | LI_JQ_L2D1_T_G11195895                           |
|  | Declarations of conformity      | FLOODLIGHT GEN4                                  |
|  | Declarations Of Conformity UKCA | FLOODLIGHT GEN4                                  |

| Photometric and lighting design files                                              |                      | Document name                       |
|------------------------------------------------------------------------------------|----------------------|-------------------------------------|
|  | IES file (IES)       | FL 200 PCELL P 133W 840 20KLM PS BK |
|  | LDT file (Eulumdat)  | FL 200 PCELL P 133W 840 20KLM PS BK |
|  | UGR file (UGR table) | FL 200 PCELL P 133W 840 20KLM PS BK |
|  | LDC typ cone         | FL 200 PCELL P 133W 840 20KLM PS BK |
|  | LDC typ polar        | FL 200 PCELL P 133W 840 20KLM PS BK |

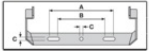
| CAD/BIM files                                                                      |              | Document name |
|------------------------------------------------------------------------------------|--------------|---------------|
|  | BIM_Revit_3D | Floodlight G4 |
|  | CAD_STEP_3D  | FL G4 133W    |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4099854307041 | Folding box<br>1             | 75 mm x 324 mm x 417 mm              | 3785.00 g    | 10.13 dm³ |
| 4099854307058 | Shipping box<br>2            | 340 mm x 167 mm x 444 mm             | 8069.00 g    | 25.21 dm³ |

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



|      | A   | B   | C    | Beam angle | Beam diameter |
|------|-----|-----|------|------------|---------------|
| 60W  | 150 | 108 | 8.5  | 2x MB      | 0.045 m²      |
| 100W | 150 | 108 | 10.5 | 2x MB      | 0.070 m²      |
| 133W | 170 | 118 | 10.5 | 2x MB      | 0.085 m²      |

230Vac

|      | C10A | B15A | C16A |
|------|------|------|------|
| 60W  | 25   | 41   | 41   |
| 100W | 6    | 5    | 9    |
| 133W | 4    | 4    | 7    |



| FL 100 PCELL P 60W 840 20KLM PS  | 60 W / 10000 lm  | 60 W / 10000 lm  |
|----------------------------------|------------------|------------------|
| FL 100 PCELL P 100W 840 20KLM PS | 100 W / 10000 lm | 100 W / 10000 lm |
| FL 133 PCELL P 133W 840 20KLM PS | 133 W / 11000 lm | 133 W / 20000 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.