# PRODUCT DATASHEET
# FL 100 PCELL P 69W 840 10KLM PS BK

FLOODLIGHT PHOTOCELL 100 | Floodlight with daylight sensor, up to 10000 lm




## 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 lumen 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 $mm^2$ 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

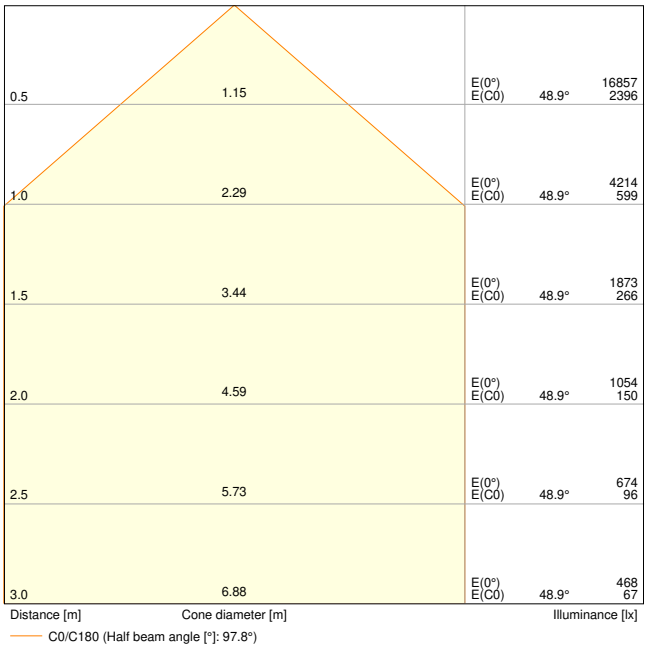
### Electrical data

| | |
|---|---|
| Nominal wattage | 69 W / 53 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 50…60 Hz |
| Nominal current | 310/260 mA |
| Inrush current | 18.22 A |
| Inrush current time $T_{h50}$ | 90.4 µs |
| Max. number of luminaires per miniature circuit breaker B16 | 41 |
| Max. number of luminaires per miniature circuit breaker C10 | 25 |
| Max. number of luminaires per miniature circuit breaker C16 | 41 |
| Power factor λ | > 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 |

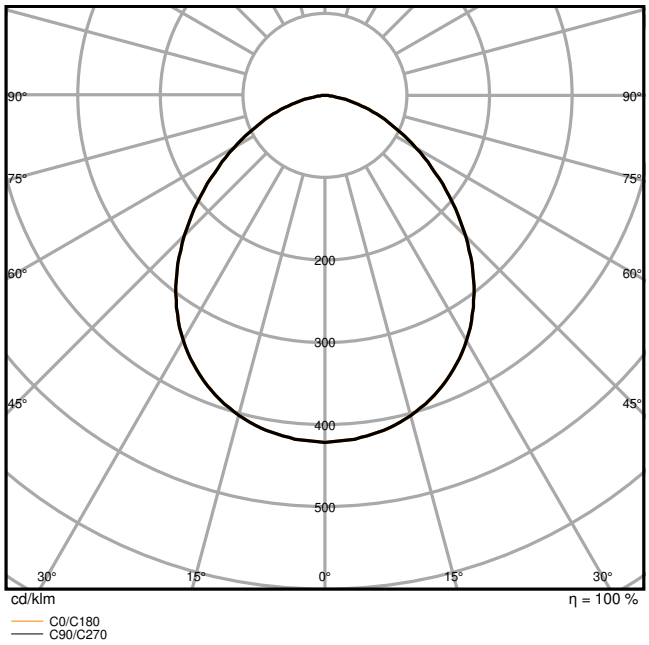
### Photometrical data

| | |
|---|---|
| Luminous flux | 10000 lm / 8000 lm |
| Luminous efficacy | 145 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | 80 |
| Standard deviation of color matching | 5 sdcm |
| 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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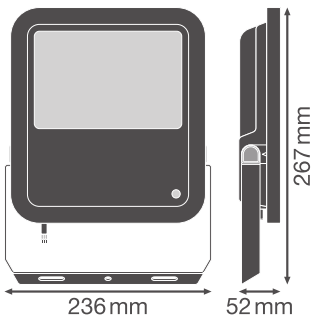

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## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|---|---|---|---|
| 69 W | 4000 K | 10000 lm | 145 lm/W |
| 53 W | 4000 K | 8000 lm | 145 lm/W |

## Dimensions & Weight

| | |
|---|---|
| Length | 236.00 mm |
| Width | 52.00 mm |
| Height | 236.00 mm |
| Product weight | 1720.00 g |
| Cable length | 1000 mm |




FL 100 PCELL 10KLM


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## 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) | IK08 |
| Corrosion resistance class acc. to EN 12944 | C4 |
| Dimmable | No |
| Mounting type | Surface |
| Mounting location | Wall / Pole / Floor |
| Application environment | Outdoor |
| Mechanically adjustable | Yes |
| With light source | Yes |
| Replaceable light source | No |

## 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 | 550 mA |
| ECG - Output ripple current | < 20 % |

## Sensor

| | |
|---|---|
| Type of sensor | Light |


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

## Certificates & Standards

| | |
|---|---|
| Standards | CE / CB / ENEC / EAC / UKCA / EPD |
| Luminaire with limited surface temperature, "D sign" | Yes |
| Ball shot safe | No |
| EPD | LEDV-00030-V01.01-EN |

## Additional product data

| | |
|---|---|
| Added function | MULTI SELECT |

## Accessories Optional

| Product image | Product name | EAN |
|---|---|---|
|  | FL TRAVERSE 1/2 42/60/76MM | 4099854680038 |

## Safety advice

– Max. wind load surface 0.045 $m^2$

## DOWNLOAD DATA

| | Documents and certificates | Document name |
|---|---|---|
| PDF | User instruction / safety instructions | G11193709_UI_Floodlight_Photocell |
| PDF | Legal information | Insert_LSI_Floodlight_Sensor_Photocell_G11195969 |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Legal information | Safety Insert G11205496 |
| PDF | Legal information | Legal Insert G11277401 |
| PDF | Declarations of conformity | FLOODLIGHT GEN4 |
| PDF | Declarations of conformity UKCA | FLOODLIGHT GEN4 |


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| | Documents and certificates | Document name |
|---|---|---|
| PDF | EPD | EPD EN FLOODLIGHT GEN 4 MP PHOTOCELL |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | FL 100 PCELL P 69W 840 10KLM PS BK |
| LDT | LDT file (Eulumdat) | FL 100 PCELL P 69W 840 10KLM PS BK |
| ULD | ULD file (DIALux) | FL 100 PCELL P 69W 840 10KLM PS BK |
| ROLF | ROLF file (RELUX) | FL 100 PCELL P 69W 840 10KLM PS BK |
| | UGR file (UGR table) | FL 100 PCELL P 69W 840 10KLM PS BK |
| | Light distribution curve type cone | FL 100 PCELL P 69W 840 10KLM PS BK |
| | Light distribution curve type polar | FL 100 PCELL P 69W 840 10KLM PS BK |

| | CAD/BIM files | Document name |
|---|---|---|
| RFA | BIM Revit 3D | Floodlight G4 |
| STEP | CAD STEP 3D | FL G4 69W |

| | Tender texts | Document name |
|---|---|---|
| TXT | Tender documents | FLOODLIGHT PHOTOCELL 100 69W 840 10KLM PS BK-EN |

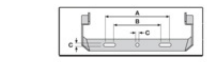
## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854306945 | Folding box<br>1 | 78 mm x 255 mm x 237 mm | 1841.00 g | 4.71 $dm^3$ |
| 4099854306952 | Shipping box<br>4 | 332 mm x 271 mm x 264 mm | 7869.00 g | 23.75 $dm^3$ |

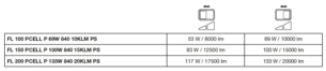
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## ADDITIONAL CATALOG INFORMATION


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| | A | B | C | | | 230 Vac | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | C10A | B16A | C16A |
| 69W | 150 | 108 | 8.5 | 2x M6 | 0.045m² | 25 | 41 | 41 |
| 100W | 150 | 108 | 10.5 | 2x M8 | 0.070m² | 6 | 5 | 9 |
| 133W | 170 | 118 | 10.5 | 2x M8 | 0.085m² | 4 | 4 | 7 |



| | | |
|---|---|---|
| FL 100 PCELL P 69W 840 10KLM PS | 83 W / 8000 lm | 69 W / 10000 lm |
| FL 150 PCELL P 100W 840 15KLM PS | 83 W / 12500 lm | 100 W / 15000 lm |
| FL 200 PCELL P 133W 840 20KLM PS | 117 W / 17500 lm | 133 W / 20000 lm |

## References / Links

– For Guarantee see www.ledvance.com/guarantee

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