

PRODUCT DATASHEET

FL 100 PCELL P 69W 840 10KLM PS BK

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



PERFORMANCE
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

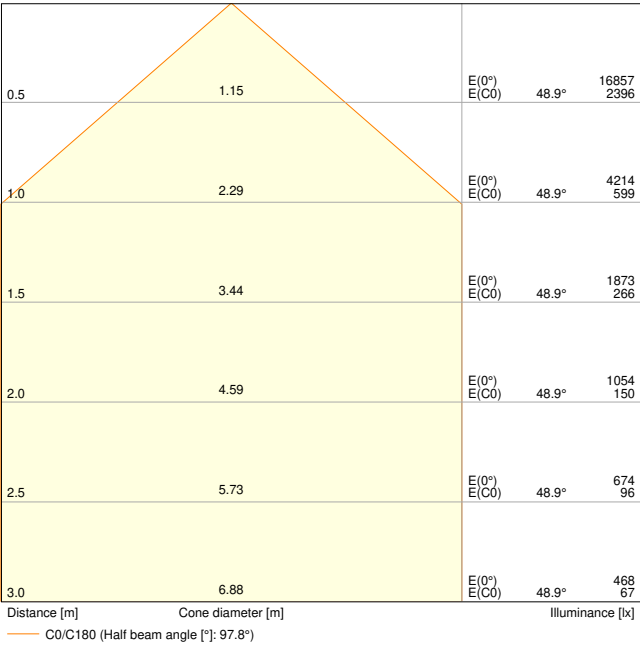
- Daylight sensor, integrated in glass cover
- Switch on below 35 lux, switch off above 95 lux illuminance
- High luminous efficacy: up to 150 lm/W
- Type of protection: IP66
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm² single wires
- Reflector-based, symmetric light distribution 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**

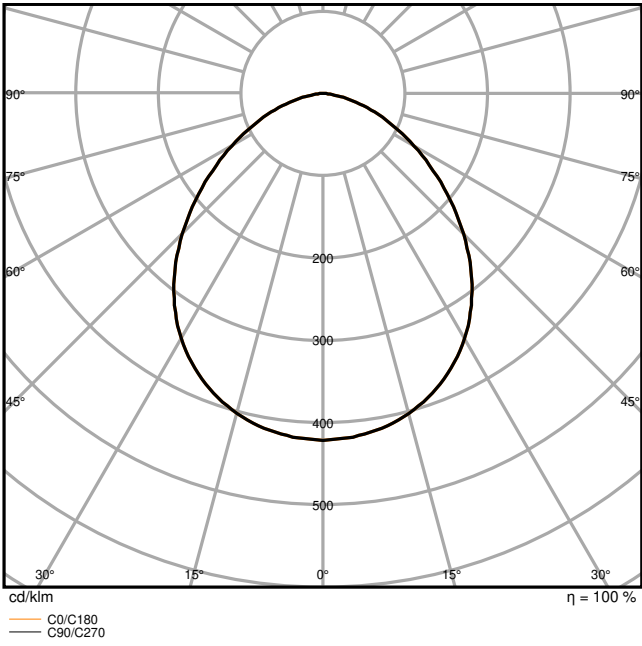
Nominal wattage	69 W / 53 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	310/260 mA
Inrush current	18.22 A
Inrush current time T_{h50}	90.4 μ s
Max. number of luminaires per miniature circuit breaker B16	41
Max. number of luminaires per miniature circuit breaker C10	25
Max. 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 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 °



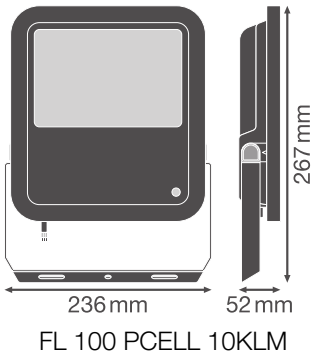
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Dimensions & Weight

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



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
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
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
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI SELECT
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Accessories Optional

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

4099854680038

Safety advice

– Max. wind load surface 0.045 m²

DOWNLOAD DATA

Documents and certificates	Document name
 User instruction / safety instructions	G11193709_UI_Floodlight_Photocell
 Legal information	Insert_LSI_Floodlight_Sensor_Photocell_G11195969
 Legal information	Informationstext 18 Abs 4 ElektroG
 Legal information	Safety Insert G11205496
 Legal information	Legal Insert G11257402
 Declarations of conformity	FLOODLIGHT GEN4
 Declarations of conformity UKCA	FLOODLIGHT GEN4

Photometric and lighting design files	Document name
 IES file (IES)	FL 100 PCELL P 69W 840 10KLM PS BK

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.