

# 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 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

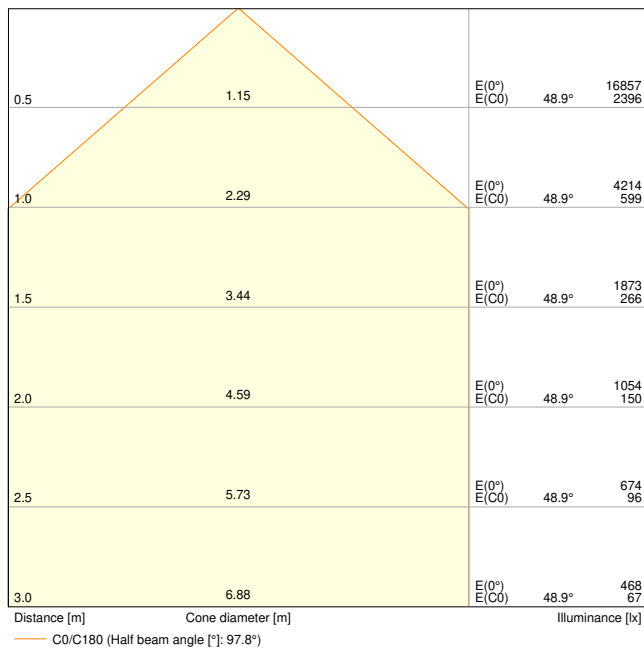
## TECHNICAL DATA

### Electrical data

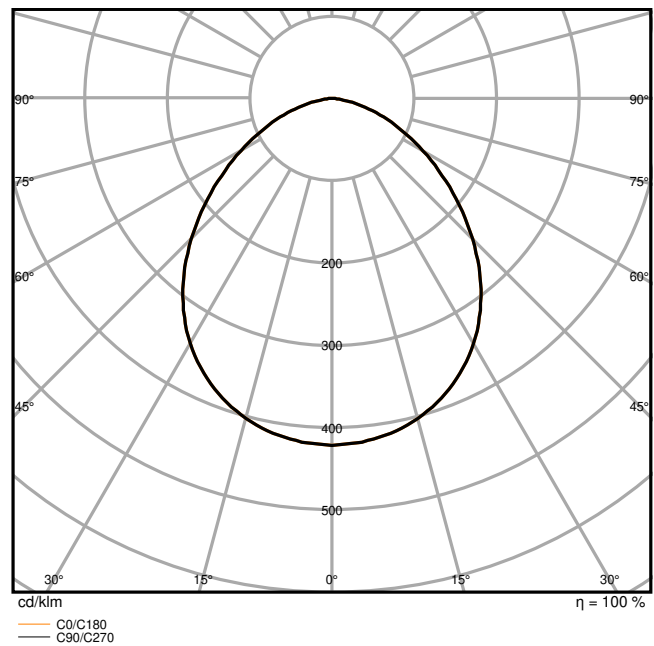
Nominal wattage	69 W / 53 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	310/260 mA
Inrush current	18.22 A
Inrush current time $T_{h50}$	90.4 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	41
Max. number of luminaires per miniature circuit breaker C10	25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



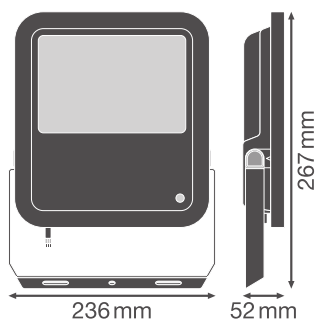
FL 100 PCELL P 69W 840 10KLM PS BK



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### Dimensions & Weight

Length	236.00 mm
Width	52.00 mm
Height	267.00 mm
Product weight	1720.00 g
Cable length	1000 mm



FL 100 PCELL 10KLM

### Materials & Colors

Product color	Black
Housing color	Black

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

### 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	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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Safety advice

– Max. wind load surface 0.045 m<sup>2</sup>


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 FLOODLIGHT LUMS
	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
	LDT file (Eulumdat)	FL 100 PCELL P 69W 840 10KLM PS BK
	ULD file (DIALux)	FL 100 PCELL P 69W 840 10KLM PS BK
	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
	BIM Revit 3D	Floodlight G4
	CAD STEP 3D	FL G4 69W

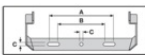
Tender texts		Document name
	Tender documents	FLOODLIGHT PHOTOCELL 100 69W 840 10KLM PS BK-EN







LOGISTICAL DATA

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



						230 Vac			
A	B	C				C10A	B10A	C16A	
69W	150	108	8.5	2x MB		0.045 m <sup>2</sup>	25	41	41
100W	150	108	10.5	2x MB		0.070 m <sup>2</sup>	6	5	9
133W	170	118	10.5	2x MB		0.085 m <sup>2</sup>	4	4	7

		
FL 100 PCELL P 69W 840 10KLM PS	82 W / 1000 mm	89 W / 1000 mm
FL 100 PCELL P 100W 840 10KLM PS	89 W / 1000 mm	100 W / 1000 mm
FL 133 PCELL P 133W 840 10KLM PS	117 W / 1100 mm	125 W / 2000 mm

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.