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
- 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

© 2026, LEDVANCE GmbH. All rights reserved.

TECHNICAL DATA

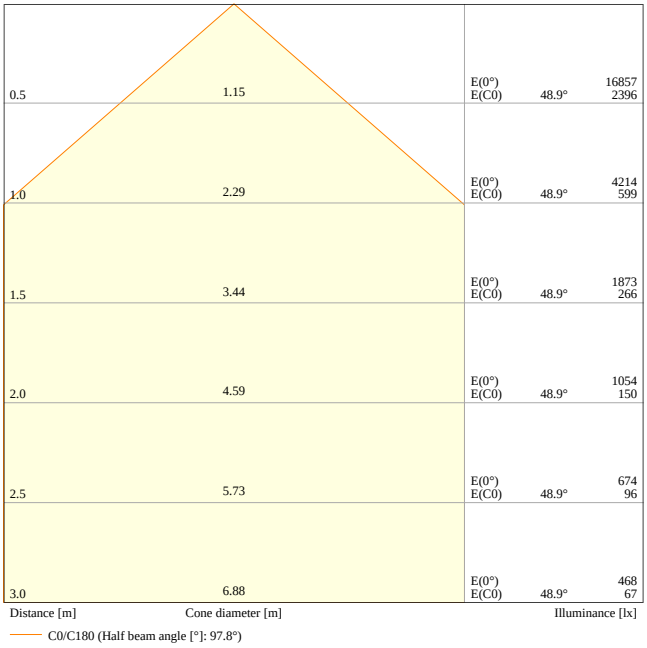
Electrical data

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
Maximum 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

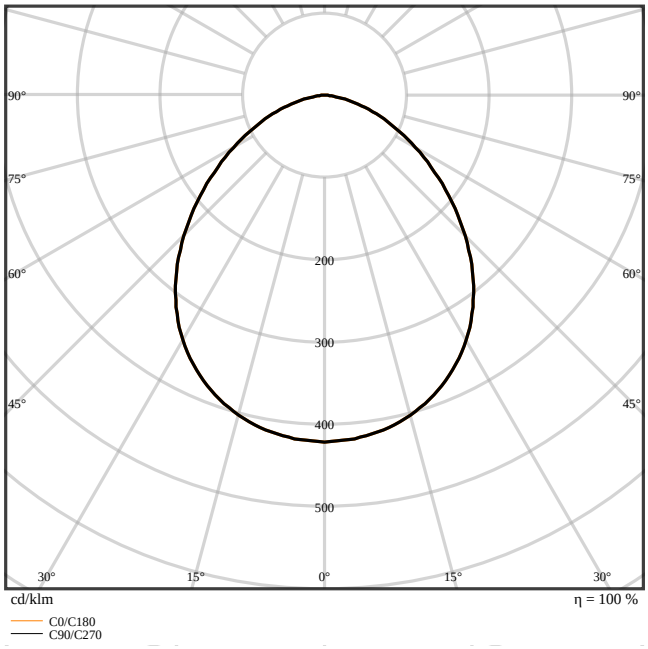
Photometrical data

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	RG0
Photobiological safety group acc. to EN62471	RG0
Beam angle	100 ° x 100 °

© 2026, LEDVANCE GmbH. All rights reserved.



FL 100 PCELL P 69W 840 10KLM PS BK



FL 100 PCELL P 69W 840 10KLM PS BK

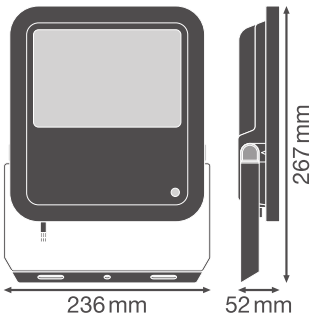
Adjustable attributes

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

© 2026, LEDVANCE GmbH. All rights reserved.



FL 100 PCELL 10KLM

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)]

© 2026, LEDVANCE GmbH. All rights reserved.

Lifespan L80/B50 at 25 °C	70000 h
Lifespan L90/B10 at 25 °C	35000 h [1)]

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
Output ripple current (100 Hz)	< 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

Additional product data

Added function	MULTI LUMEN

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

© 2026, LEDVANCE GmbH. All rights reserved.

	Documents and certificates	Document name
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
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

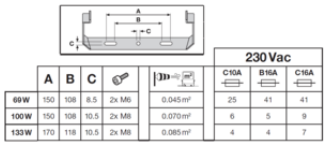
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854306945	Folding box 1	78 mm x 255 mm x 237 mm	1841.00 g	4.71 dm^3

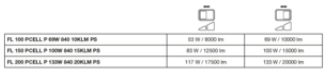
© 2026, LEDVANCE GmbH. All rights reserved.

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854306952	Shipping box 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





References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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

© 2026, LEDVANCE GmbH. All rights reserved.