PRODUCT DATASHEET
FL 150 PCELL P 100W 840 15KLM PS BK

FLOODLIGHT PHOTOCELL 150 | Floodlight with daylight sensor, up to 15000 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

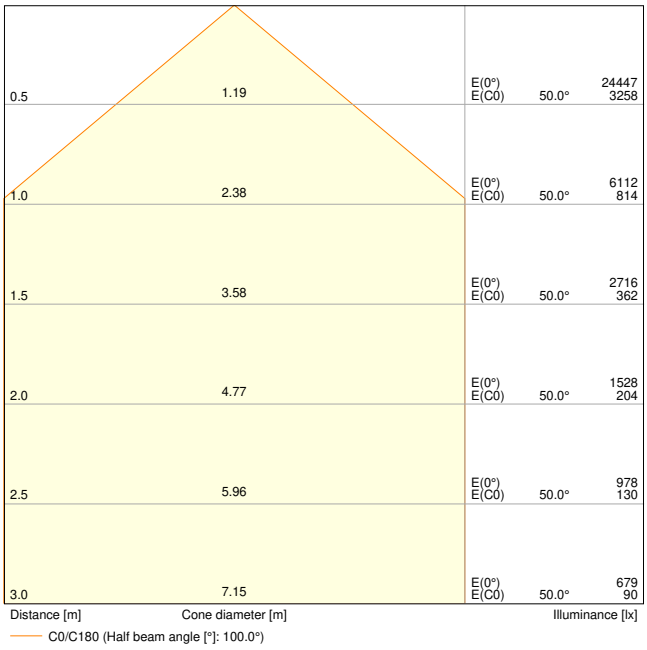
Electrical data

Nominal wattage	100 W / 83 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	443/368 mA
Inrush current	30 A
Inrush current time T_{h50}	452 µs
Max. number of luminaires per miniature circuit breaker B16	5
Max. number of luminaires per miniature circuit breaker C10	6
Max. number of luminaires per miniature circuit breaker C16	9
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

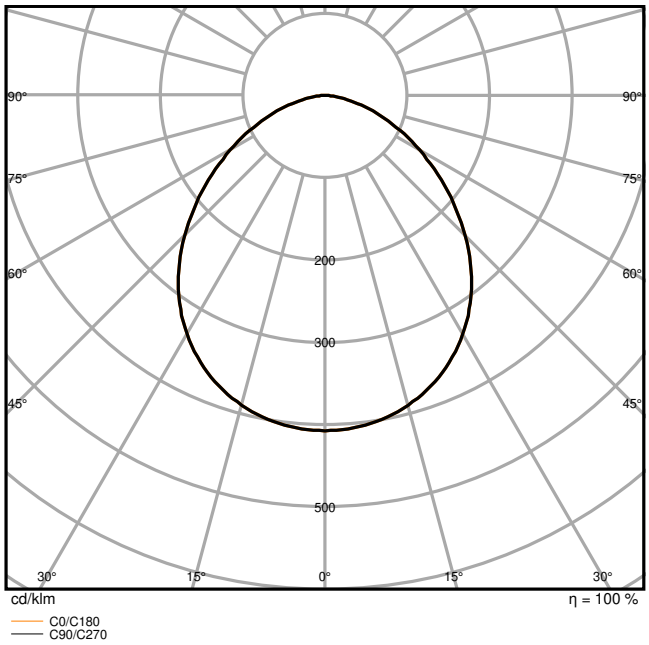
Photometrical data

Luminous flux	15000 lm / 12500 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 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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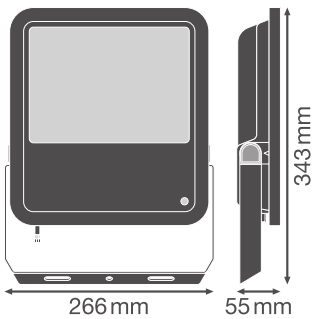
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Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
100 W	4000 K	15000 lm	150 lm/W
83 W	4000 K	12500 lm	150 lm/W

Dimensions & Weight

Length	266.00 mm
Width	55.00 mm
Height	343.00 mm
Product weight	2828.00 g
Cable length	1000 mm



FL 150 PCELL 15KLM

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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	480 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 0.070 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 150 PCELL P 100W 840 15KLM PS BK
LDT	LDT file (Eulumdat)	FL 150 PCELL P 100W 840 15KLM PS BK
ULD	ULD file (DIALux)	FL 150 PCELL P 100W 840 15KLM PSBK
ROLF	ROLF file (RELUX)	FL 150 PCELL P 100W 840 15KLM PSBK
	UGR file (UGR table)	FL 150 PCELL P 100W 840 15KLM PS BK
	Light distribution curve type cone	FL 150 PCELL P 100W 840 15KLM PS BK
	Light distribution curve type polar	FL 150 PCELL P 100W 840 15KLM PS BK

	CAD/BIM files	Document name
RFA	BIM Revit 3D	Floodlight G4
STEP	CAD STEP 3D	FL G4 100W

	Tender texts	Document name
TXT	Tender documents	FLOODLIGHT PHOTOCELL 150 100W 840 15KLM PS BK-EN

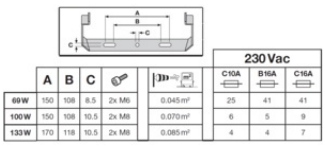
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854307003	Folding box 1	72 mm x 285 mm x 370 mm	3009.00 g	7.59 dm^3
4099854307010	Shipping box 3	301 mm x 234 mm x 397 mm	9565.00 g	27.96 dm^3

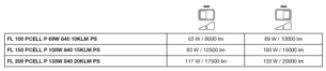
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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



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.

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