PRODUCT DATASHEET
FL PFM 50 W 4000 K SYM 100 S BK

FLOODLIGHT SENSOR 50 W | Floodlight with flexible motion and daylight sensor, up to 6000 lm light output



Areas of application

- Replacement for floodlights with halogen lamps
- Outdoor use (IP65)
- Public areas
- Building facades
- Construction areas
- Gardens, balconies and other outdoor areas

Product benefits

- Bright, robust and durable
- Demand optimized illumination due to flexible and programmable sensor
- Easy adjustment of sensor range, daylight detection and hold time
- Always-on override, activated via special mains switching pattern
- Safe and very uniform illumination, due to frosted and tempered glass diffuser
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt
- Energy savings of up to 90 % compared to halogen lamp floodlights
- 5 years guarantee

Product features

- Flexible motion and daylight sensor
- Sensor with 350° pan and 180° tilt
- Reflector-based, symmetric light distribution with 100° x 100° beam angle
- Integrated wide voltage driver, suitable for 100 - 277 V AC
- Surge protection: up to 4 kV (L/N-PE), 2 kV (L-N)



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- Mounting bracket with 30° angle and wide rotation area
- Breather membrane to optimize air exchange, without compromising IP protection
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm^2 single wires

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TECHNICAL DATA

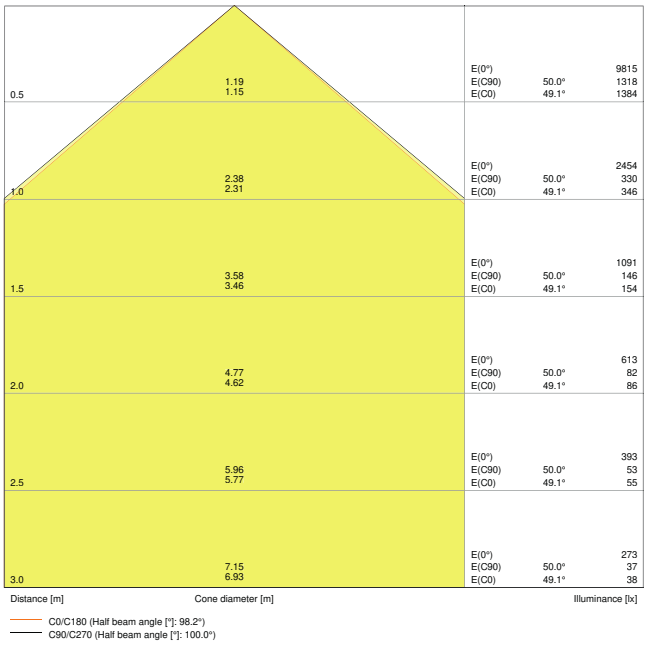
Electrical data

Nominal wattage	50.00 W
Nominal voltage	100…277 V
Mains frequency	50…60 Hz
Nominal current	248 mA
Inrush current	9.6 A
Inrush current time T_{h50}	46.5 µs
Max. number of luminaires per miniature circuit breaker B16	35
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
Operating mode	Integrated LED driver

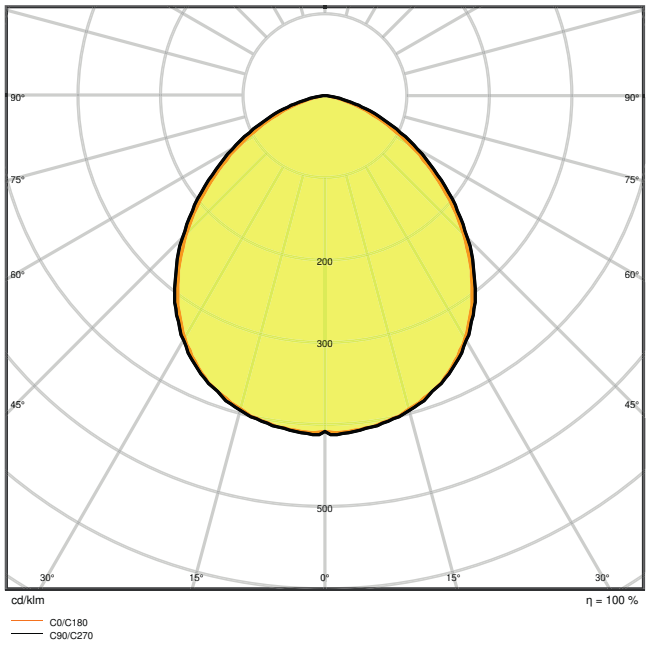
Photometrical data

Luminous flux	6000 lm
Luminous efficacy	120 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥80
Standard deviation of color matching	≤5 sdcm
Luminous intensity	-
Flickering metric (Pst LM)	-
Stroboscope effect metric (SVM)	-
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	100 ° x 100 °

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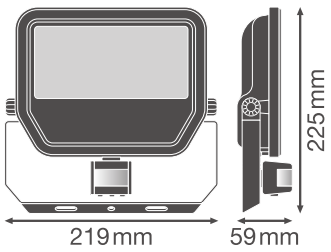
FL PFM 50W4000K SYM 100 S BK



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Dimensions & Weight

Length	225.00 mm
Width	219.00 mm
Height	59.00 mm
Product weight	1060.00 g
Cable length	1000 mm



FL PFM 50W S

Materials & Colors

Product color	Black

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Housing color	Black
Body material	Aluminum
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	IP65
Protection class IK (shock resistance)	IK07
Dimmable	No
Mounting type	Surface
Mounting location	Wall / Ceiling
Application environment	Outdoor
Adjustable	Yes
LED module replaceable	Not replaceable
With light source	Yes

Lifespan

Lifespan L70/B50 at 25 °C	70000 h [1)]
Lifespan L80/B10 at 25 °C	55000 h [1)]
Lifespan L90/B10 at 25 °C	35000 h
Number of switching cycles	100000

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	460 mA
ECG - Output ripple current	< 50 %

Sensor

Type of sensor	Motion / Light
Sensor technology	Passive infrared/Photocell
Sensor detection angle	40 °…160 °
Sensor controlled switching time	10 s…12 min

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Detection range of motion sensor	2…12 m
Detection threshold of daylight sensor	10…2000 lx
Sensor IP rating	IP65

Certificates & Standards

Standards	CE / CB / ENEC / EAC / RoHS / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00009-V01.01-EN

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction	FLOODLIGHT SENSOR
PDF	Addon Technical Information	LSI FL PFM SYM
PDF	Packaging insert	FL PFM SYM
PDF	Declarations Of Conformity CE	FL PFM SENSOR

	Photometric and lighting design files	Document name
IES	IES file (IES)	FL PFM 50W4000K SYM 100 S BK
LDT	LDT file (Eulumdat)	FL PFM 50W4000K SYM 100 S BK
ULD	ULD file (DIALux)	FL PFM 50W-4000K SYM 100 S BK
ROLF	ROLF file (RELUX)	FL PFM 50W-4000K
	UGR file (UGR table)	FL PFM 50W4000K SYM 100 S BK
	LDC typ cone	FL PFM 50W4000K SYM 100 S BK
	LDC typ polar	FL PFM 50W4000K SYM 100 S BK

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	CAD/BIM files	Document name
	BIM_Revit_3D	Floodlight Sensor G3
	CAD_STEP_3D	FL G3 SEN 50W

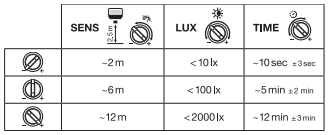
	Tender texts	Document name
	Tender documents	FLOODLIGHT SENSOR 50 W 4000 K SYM 100 S BK-EN

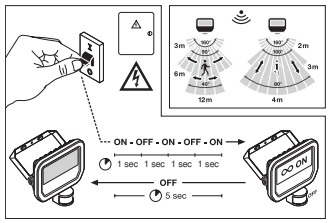
LOGISTICAL DATA

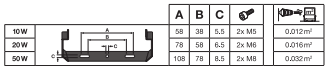
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075461031	Folding box 1	65 mm x 225 mm x 233 mm	1181.00 g	3.41 dm^3
4058075461048	Shipping box 8	459 mm x 271 mm x 249 mm	10142.00 g	30.97 dm^3

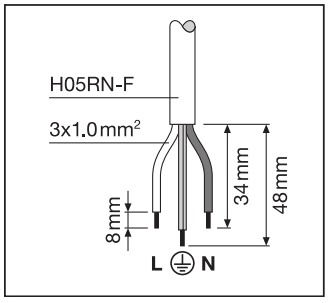
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

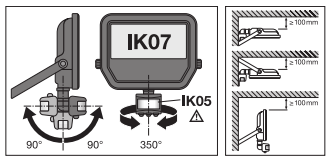
ADDITIONAL CATALOG INFORMATION

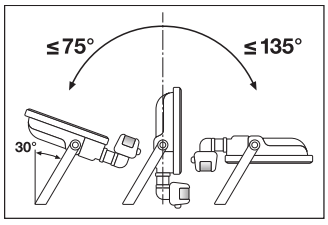












References / Links

– For Guarantee see www.ledvance.com/guarantee

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