




# LEDVANCE Gen 4 Sensor Floodlight Owner's Manual

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# FLOODLIGHT GEN 4

THE NEW, ROBUST OUTDOOR  
FLOODLIGHTS FOR ANY WEATHER



THE NEW FLOODLIGHT GEN 4  
BUILT TO LAST, LIGHTING THE WAY  
EFFICIENCY, FLEXIBILITY AND DURABILITY FOR DEMANDING OUTDOOR ENVIRONMENTS

The LEDVANCE FLOODLIGHT GEN 4 family sets a new standard for outdoor lighting, offering exceptional performance for a variety of applications. It delivers impressive efficiency of up to 150 lm/W and a long lifetime of 75,000 hours (L80/B10), minimising energy costs and maintenance.

Installer-friendly features like the MULTI LUMEN for adjustable brightness and a watertight cable gland provide ease of use and reliable operation in harsh conditions. C4 corrosion resistance ensures durability in coastal environments, while the breather membrane prevents water build-up within the luminaire. The GEN 4 also offers a

new sensor version with automatic dimming for eco-conscious operation, reducing light pollution and energy consumption.

With its robust build (up to IP66/IK08) for reliable protection, easy bracket installation and a comprehensive 5-year guarantee, the FLOODLIGHT GEN 4 family is the ideal choice for dependable and long-lasting outdoor illumination.

The range is completed with PHOTOCELL versions with daylight sensor.

- + HIGH EFFICIENCY: Up to 150 lm/W for optimal energy efficiency
- + C4 CORROSION RESISTANCE: Suitable for use in environments with moderate salinity
- + MULTI LUMEN: Adjustable brightness levels to suit specific needs
- + EXTREMELY TOUGH: Up to IP66 and IK08 for reliable performance



#### **BREAKDOWN OF THE MAIN FLOODLIGHT GEN 4 BENEFITS**

1. Frosted glass for perfect homogeneity
2. MULTI LUMEN dip switch
3. Secure water stop thanks to watertight cable gland
4. Breather membrane
5. Flexible installation thanks to 1 m cable
6. Adjustable mounting bracket

PERFOR-  
MANCE  
CLASS

#### WOULD YOU LIKE MORE INFORMATION?

Visit our website to discover more  
technical details on the product range.  
[ledvance.com/FL-GEN4](http://ledvance.com/FL-GEN4)



Does your project require something not shown?  
LEDVANCE Project Services can create lighting  
solutions to fit your specific needs.  
Get in touch: [contact@ledvance.com](mailto:contact@ledvance.com)

#### BLACK & WHITE HOUSING AVAILABLE



#### MULTI LUMEN: LESS COMPLEXITY, MORE FLEXIBILITY

With our new MULTI LUMEN feature, installers can set the lumen output in two steps before installation according to the application need. This reduces the complexity of product selection, as fewer products now cover the entire range of lumens and meet the needs of installers. The simple 2-level setting is done via a dip switch on the luminaire.

##### ADVANTAGES:

- Simplified product selection
- Flexible adjustment before installation
- Easy operation
- Proven quality

Our MULTI LUMEN FLOODLIGHTS GEN 4  
offer a practical and efficient solution  
for illuminating your projects.



PRODUCT NAME	LOW (lm)		HIGH (lm)
FL 10	850	↔	1 200
FL 20	1 650	↔	2 400
FL 50	4 000	↔	6 000
FL 100	8 000	↔	10 000
FL 150	12 800	↔	15 000
FL 200	18 000	↔	20 000
FL 250	22 500	↔	25 000

[ledvance.com/FL-GEN4](http://ledvance.com/FL-GEN4)  
[contact@ledvance.com](mailto:contact@ledvance.com)

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## UNWAVERING PERFORMANCE:

### FLOODLIGHT GEN 4 FOR CHALLENGING APPLICATIONS

C4 corrosion resistance, watertight connections and adjustable brightness make the FLOODLIGHT GEN 4 ideal for illuminating outdoor spaces. Long-lasting performance ensures reliable illumination, even under the toughest weather conditions.



## FLOODLIGHT GEN 4 SENSOR:

### LIGHT WHEN AND WHERE YOU NEED IT

The FLOODLIGHT GEN 4 SENSOR family with flexible motion and daylight sensor presents itself in a new design and with an innovative feature: automatic dimming when no motion is detected. This eco-friendly feature reduces light pollution by dimming the light when it's not needed.



**New design**  
that creates  
a unified look  
for the  
FLOODLIGHT  
GEN 4 family.



**Adjustable  
sensor direction:**  
can be angled  
for side motion  
detection

**Lux level/ambient light:**  
< 10 – 2,000 LUX (adjustable)

**Hold time:**  
10 sec – 1 – 6 – 12 min



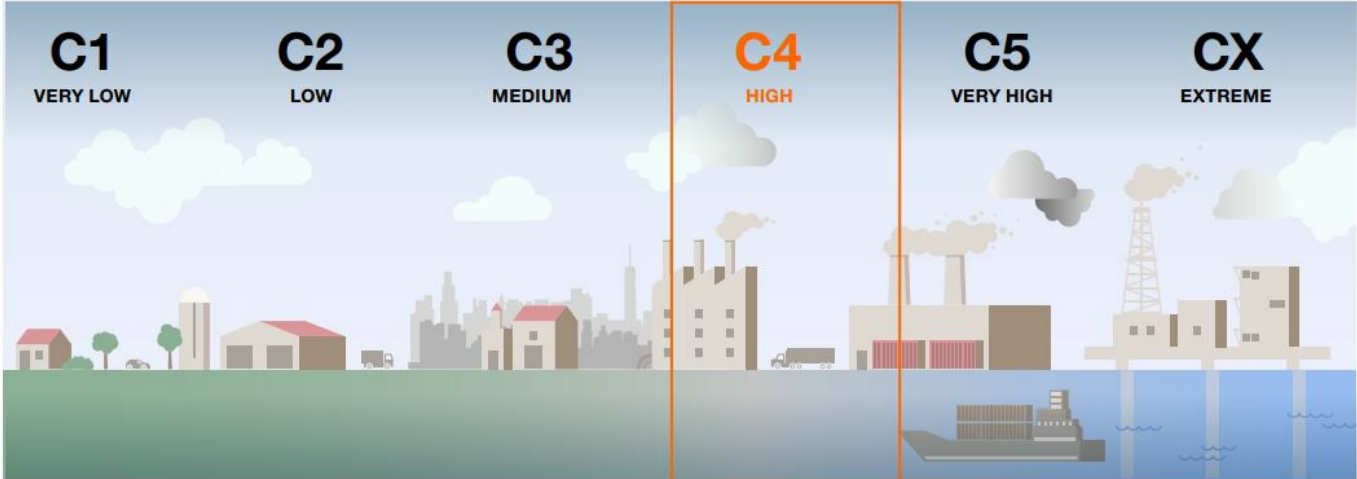

**Detection distance:**  
L/M/H = 10 m ± 2 m

**Stand dimming level:**  
0 % – 20 % – 40 %

## CORROSION CLASS RESISTANCE

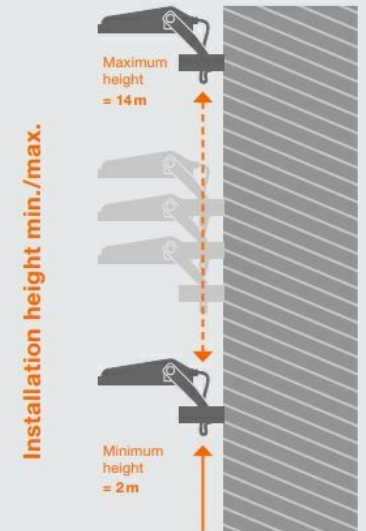
ACCORDING TO EN ISO 12944-2

Corrosion is a natural process that can damage materials, especially when exposed to harsh elements like saltwater. Our Gen 4 floodlights offer exceptional corrosion resistance with a C4 rating, making them ideal for outdoor use.

C1 VERY LOW	C2 LOW	C3 MEDIUM	C4 HIGH	C5 VERY HIGH	CX EXTREME
					
					
OUTDOOR APPLICATIONS					
	Atmosphere with low degree of pollution; mostly rural areas	Urban and industrial atmospheres with moderate sulphur dioxide pollution; coastal atmosphere with low salinity	Industrial and coastal areas with moderate salinity	Industrial areas with high humidity and aggressive atmospheres and coastal areas with high salinity	Offshore areas with high salinity and industrial areas with extreme humidity and aggressive atmospheres as well as subtropical and tropical atmospheres
INDOOR APPLICATIONS					
Heated buildings with clean atmospheres, e.g. offices, retail areas, schools, hotels	Unheated buildings in which condensation can occur, e.g. warehouses, sports halls	Manufacturing spaces with high humidity and certain air pollution, e.g. food processing plants, laundries, breweries, dairies	Chemical plants, swimming pools*, coastal shipyards and boat harbours	Buildings or areas with almost constant condensation and with heavy pollution	Industrial areas with extreme humidity and aggressive atmospheres
* FLOODLIGHT GEN 4: not suitable for chlorine environments					

## RECOMMENDED INSTALLATION HEIGHT FOR FLOODLIGHT GEN 4

Product Name	Wattage (W)	Lumen output (lm)	Mounting height min. (m)	Mounting height max. (m)
<b>Installation height 2–4 m</b>				
FL 10 P 8W 1K2LM 830 PS SY100 BK	8	1200	2	4
FL 20 P 17W 2K4LM 830 PS SY100 BK	17	2400	2	4
FL 50 P 41W 6KLM 830 PS SY100 BK	41	6000	2	4
<b>Installation height 4–14 m</b>				
FL 100 P 69W 10KLM 830 PS SY100 BK	69	10000	4	8
FL 150 P 100W 15KLM 830 PS SY100 BK	100	15000	6	10
FL 200 P 133W 20KLM 830 PS SY100 BK	133	20000	6	10
FL 250 P 167W 25KLM 830 PS SY100 BK	167	25000	6	14



## FLOODLIGHT GEN 4



Available in black and white housing colours

Product name	EAN (GTIN)	Replacement for	W	lm	lm/W	K	L80	1	°	L x W x H [mm] Ø x H [mm]
<b>FLOODLIGHT 10</b>										
FL 10 P 8W 1K2LM 830 PS SY100 BK	4099854 <b>305689</b>	80W HAL	8/6	1100/780	133	3000	75000	100 x 100	136 x 36 x 127	
FL 10 P 8W 1K2LM 830 PS SY100 WT	4099854 <b>305702</b>	80W HAL	8/6	1100/780	133	3000	75000	100 x 100	136 x 36 x 127	
FL 10 P 8W 1K2LM 840 PS SY100 BK	4099854 <b>305665</b>	80W HAL	8/6	1200/850	145	4000	75000	100 x 100	136 x 36 x 127	
FL 10 P 8W 1K2LM 840 PS SY100 WT	4099854 <b>305726</b>	80W HAL	8/6	1200/850	145	4000	75000	100 x 100	136 x 36 x 127	
FL 10 P 8W 1K2LM 865 PS SY100 BK	4099854 <b>305740</b>	80W HAL	8/6	1200/850	145	6500	75000	100 x 100	136 x 36 x 127	
FL 10 P 8W 1K2LM 865 PS SY100 WT	4099854 <b>305764</b>	80W HAL	8/6	1200/850	145	6500	75000	100 x 100	136 x 36 x 127	
<b>FLOODLIGHT 20</b>										
FL 20 P 17W 2K4LM 830 PS SY100 BK	4099854 <b>305788</b>	400W HAL	17/11	2200/1465	133	3000	75000	100 x 100	157 x 38 x 141	
FL 20 P 17W 2K4LM 830 PS SY100 WT	4099854 <b>305801</b>	400W HAL	17/11	2200/1465	133	3000	75000	100 x 100	157 x 38 x 141	
FL 20 P 17W 2K4LM 840 PS SY100 BK	4099854 <b>305825</b>	400W HAL	17/11	2400/1600	145	4000	75000	100 x 100	157 x 38 x 141	
FL 20 P 17W 2K4LM 840 PS SY100 WT	4099854 <b>305849</b>	400W HAL	17/11	2400/1600	145	4000	75000	100 x 100	157 x 38 x 141	
FL 20 P 17W 2K4LM 865 PS SY100 BK	4099854 <b>305863</b>	400W HAL	17/11	2400/1600	145	6500	75000	100 x 100	157 x 38 x 141	
FL 20 P 17W 2K4LM 865 PS SY100 WT	4099854 <b>305887</b>	400W HAL	17/11	2400/1600	145	6500	75000	100 x 100	157 x 38 x 141	
<b>FLOODLIGHT 50</b>										
FL 50 P 41W 6KLM 830 PS SY100 BK	4099854 <b>305924</b>	400W HAL	41/27	5500/3670	133	3000	75000	100 x 100	201 x 43 x 179	
FL 50 P 41W 6KLM 830 PS SY100 WT	4099854 <b>305948</b>	400W HAL	41/27	5500/3670	133	3000	75000	100 x 100	201 x 43 x 179	
FL 50 P 41W 6KLM 840 PS SY100 BK	4099854 <b>305962</b>	400W HAL	41/27	6000/4000	145	4000	75000	100 x 100	201 x 43 x 179	
FL 50 P 41W 6KLM 840 PS SY100 WT	4099854 <b>305986</b>	400W HAL	41/27	6000/4000	145	4000	75000	100 x 100	201 x 43 x 179	
FL 50 P 41W 6KLM 865 PS SY100 BK	4099854 <b>306006</b>	400W HAL	41/27	6000/4000	145	6500	75000	100 x 100	201 x 43 x 179	
FL 50 P 41W 6KLM 865 PS SY100 WT	4099854 <b>306020</b>	400W HAL	41/27	6000/4000	145	6500	75000	100 x 100	201 x 43 x 179	
<b>FLOODLIGHT 100</b>										
FL 100 P 69W 10KLM 830 PS SY100 BK	4099854 <b>306082</b>	750W HAL	69/53	9150/7320	133	3000	75000	100 x 100	236 x 52 x 236	
FL 100 P 69W 10KLM 830 PS SY100 WT	4099854 <b>306143</b>	750W HAL	69/53	9150/7320	133	3000	75000	100 x 100	236 x 52 x 236	
FL 100 P 69W 10KLM 840 PS SY100 BK	4099854 <b>306167</b>	750W HAL	69/53	10000/8000	145	4000	75000	100 x 100	236 x 52 x 236	
FL 100 P 69W 10KLM 840 PS SY100 WT	4099854 <b>306181</b>	750W HAL	69/53	10000/8000	145	4000	75000	100 x 100	236 x 52 x 236	
FL 100 P 69W 10KLM 865 PS SY100 BK	4099854 <b>306204</b>	750W HAL	69/53	10000/8000	145	6500	75000	100 x 100	236 x 52 x 236	
FL 100 P 69W 10KLM 865 PS SY100 WT	4099854 <b>306228</b>	750W HAL	69/53	10000/8000	145	6500	75000	100 x 100	236 x 52 x 236	





#### FLOODLIGHT 150

FL 150 P 100W 15KLM 830 PS SY100BK	4099854 <b>306242</b>	1000 W HAL	100/83	14000/11670	140	3000	75000	100 × 100	266 × 55 × 343
FL 150 P 100W 15KLM 830 PS SY100WT	4099854 <b>306266</b>	1000 W HAL	100/83	14000/11670	140	3000	75000	100 × 100	266 × 55 × 343
FL 150 P 100W 15KLM 840 PS SY100BK	4099854 <b>306280</b>	1000 W HAL	100/83	15000/12500	150	4000	75000	100 × 100	266 × 55 × 343
FL 150 P 100W 15KLM 840 PS SY100WT	4099854 <b>306303</b>	1000 W HAL	100/83	15000/12500	150	4000	75000	100 × 100	266 × 55 × 343
FL 150 P 100W 15KLM 865 PS SY100BK	4099854 <b>306327</b>	1000 W HAL	100/83	15000/12500	150	6500	75000	100 × 100	266 × 55 × 343
FL 150 P 100W 15KLM 865 PS SY100WT	4099854 <b>306341</b>	1000 W HAL	100/83	15000/12500	150	6500	75000	100 × 100	266 × 55 × 343



#### FLOODLIGHT 200

FL 200 P 133W 20KLM 830 PS SY100BK	4099854 <b>306365</b>	2000 W HAL	133/117	18600/16275	140	3000	75000	100 × 100	294 × 58 × 376
FL 200 P 133W 20KLM 830 PS SY100WT	4099854 <b>306389</b>	2000 W HAL	133/117	18600/16275	140	3000	75000	100 × 100	294 × 58 × 376
FL 200 P 133W 20KLM 840 PS SY100BK	4099854 <b>306402</b>	2000 W HAL	133/117	20000/17500	150	4000	75000	100 × 100	294 × 58 × 376
FL 200 P 133W 20KLM 840 PS SY100WT	4099854 <b>306426</b>	2000 W HAL	133/117	20000/17500	150	4000	75000	100 × 100	294 × 58 × 376
FL 200 P 133W 20KLM 865 PS SY100BK	4099854 <b>306464</b>	2000 W HAL	133/117	20000/17500	150	6500	75000	100 × 100	294 × 58 × 376
FL 200 P 133W 20KLM 865 PS SY100WT	4099854 <b>306488</b>	2000 W HAL	133/117	20000/17500	150	6500	75000	100 × 100	294 × 58 × 376



#### FLOODLIGHT 250

FL 250 P 167W 25KLM 830 PS SY100BK	4099854 <b>306563</b>	2500 W HAL	167/150	23400/21060	140	3000	75000	100 × 100	329 × 61 × 409
FL 250 P 167W 25KLM 830 PS SY100WT	4099854 <b>306587</b>	2500 W HAL	167/150	23400/21060	140	3000	75000	100 × 100	329 × 61 × 409
FL 250 P 167W 25KLM 840 PS SY100BK	4099854 <b>306600</b>	2500 W HAL	167/150	25000/22500	150	4000	75000	100 × 100	329 × 61 × 409
FL 250 P 167W 25KLM 840 PS SY100WT	4099854 <b>306624</b>	2500 W HAL	167/150	25000/22500	150	4000	75000	100 × 100	329 × 61 × 409
FL 250 P 167W 25KLM 865 PS SY100BK	4099854 <b>306648</b>	2500 W HAL	167/150	25000/22500	150	6500	75000	100 × 100	329 × 61 × 409
FL 250 P 167W 25KLM 865 PS SY100WT	4099854 <b>306662</b>	2500 W HAL	167/150	25000/22500	150	6500	75000	100 × 100	329 × 61 × 409

## FLOODLIGHT SENSOR GEN 4



FLOODLIGHT SENSOR 10



FLOODLIGHT SENSOR 20



FLOODLIGHT SENSOR 50

Available in black and white housing colours

Product name	EAN (GTIN)	Replacement for	W	lm	lm/W	K	L80 <sup>1</sup>		L × W × H [mm]
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#### FLOODLIGHT SENSOR 10



FL 10 SN P 8W 1K2LM 830 PS SY100WT	4099854 <b>306709</b>	80 W HAL	8/6	1100/780	133	3000	75000	100 × 100	136 × 57 × 170
FL 10 SN P 8W 1K2LM 830 PS SY100BK	4099854 <b>306747</b>	80 W HAL	8/6	1100/780	133	3000	75000	100 × 100	136 × 57 × 170
FL 10 SN P 8W 1K2LM 840 PS SY100WT	4099854 <b>306785</b>	80 W HAL	8/6	1200/850	145	4000	75000	100 × 100	136 × 57 × 170
FL 10 SN P 8W 1K2LM 840 PS SY100BK	4099854 <b>306808</b>	80 W HAL	8/6	1200/850	145	4000	75000	100 × 100	136 × 57 × 170

#### FLOODLIGHT SENSOR 20



FL 20 SN P 17W 2K4LM 830 PSSY100WT	4099854 <b>309465</b>	160 W HAL	17/11	2200/1465	133	3000	75000	100 × 100	157 × 38 × 183
FL 20 SN P 17W 2K4LM 830 PSSY100BK	4099854 <b>309489</b>	160 W HAL	17/11	2200/1465	133	3000	75000	100 × 100	157 × 38 × 183
FL 20 SN P 17W 2K4LM 840 PSSY100WT	4099854 <b>309502</b>	160 W HAL	17/11	2400/1600	145	4000	75000	100 × 100	157 × 38 × 183
FL 20 SN P 17W 2K4LM 840 PSSY100BK	4099854 <b>309526</b>	160 W HAL	17/11	2400/1600	145	4000	75000	100 × 100	157 × 38 × 183

#### FLOODLIGHT SENSOR 50



FL 50 SN P 41W 6KLM 830 PS SY100WT	4099854 <b>306822</b>	400 W HAL	41/27	5500/3670	133	3000	75000	100 × 100	201 × 57 × 219
FL 50 SN P 41W 6KLM 830 PS SY100BK	4099854 <b>306860</b>	400 W HAL	41/27	5500/3670	133	3000	75000	100 × 100	201 × 57 × 219
FL 50 SN P 41W 6KLM 840 PS SY100WT	4099854 <b>306884</b>	400 W HAL	41/27	6000/4000	145	4000	75000	100 × 100	201 × 57 × 219
FL 50 SN P 41W 6KLM 840 PS SY100BK	4099854 <b>306921</b>	400 W HAL	41/27	6000/4000	145	4000	75000	100 × 100	201 × 57 × 219

## SENSOR PROPERTIES

Product name	Type of sensor	Sensor technology	Detection threshold of daylight sensor	Detection range of motion sensor	Sensor detection angle	Sensor controlled switching time
FLOODLIGHT SENSOR 10	Motion/Light	Passive infrared (PIR)	10...2000 lx	2...12 m	40°...160°	10 s...12 min
FLOODLIGHT SENSOR 20	Motion/Light	Passive infrared (PIR)	10...2000 lx	2...12 m	40°...160°	10 s...12 min
FLOODLIGHT SENSOR 50	Motion/Light	Passive infrared (PIR)	10...2000 lx	2...12 m	40°...160°	10 s...12 min



## FLOODLIGHT PHOTOCELL GEN 4



FLOODLIGHT PHOTOCELL 100



FLOODLIGHT PHOTOCELL 150



FLOODLIGHT PHOTOCELL 200

Product name	EAN (GTIN)	Replacement for	W	lm	lm/W	K	L80 <sup>1</sup>		L x W x H [mm]
<b>FLOODLIGHT PHOTOCELL 100/150/200</b>									
FL 100 PCELL P 69W 840 10KLM PS BK	4099854 <b>306945</b>	750 W HAL	69/53	10000/8000	145	4000	75000	100 x 100	236 x 52 x 236
FL 150 PCELL P 100W 840 15KLM PSBK	4099854 <b>307003</b>	1000 W HAL	100/83	15000/12500	150	4000	75000	100 x 100	266 x 55 x 343
FL 200 PCELL P 133W 840 20KLM PSBK	4099854 <b>307041</b>	2000 W HAL	133/117	20000/17500	150	4000	75000	100 x 100	294 x 58 x 376

### SENSOR PROPERTIES

Product name	Type of sensor	Sensor technology	Detection threshold of daylight sensor
FLOODLIGHT PHOTOCELL 100/150/200	Light	Photocell	35...95 lx

1 t[h]: L70 / B50 @ 25 °C (Ta) / t[h]: L80 / B10 @ 25 °C (Ta) 2 Refer to [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee) for precise conditions

### ABOUT LEDVANCE

With business activities in over 140 countries, LEDVANCE is one of the world's leading general lighting companies. Emerging from OSRAM's general lighting division, LEDVANCE's portfolio includes LED lamps and luminaires, intelligent lighting products, traditional lamps and renewable energy solutions.

#POWERTHROUGHLIGHT



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[LEDVANCE.COM](http://LEDVANCE.COM)

07/24 LEDVANCE EU-W MK TRA Subject to change without notice. Errors and omission excepted.

### Documents / Resources



## [LEDVANCE Gen 4 Sensor Floodlight](#) [pdf] Owner's Manual Gen 4 Sensor Floodlight, Sensor Floodlight, Floodlight

## References

- [LEDVANCE](#) [Guarantee Conditions of LEDVANCE GmbH towards Entrepreneurs | LEDVANCE](#)
- [User Manual](#)

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