LS Downlight
Smart Pir XL

Benefits

- Flexible luminaire. Select optic for an ideal lighting solution
- Easy Installation. Click & Lock surface mounting plate
- Intelligent output control using integrated Motion (PIR) and Daylight sensor (DLS)
- Self-controlled operating conditions
  - Luminaire Intelligent Protection System (LIPS)
  - Active Overheat Protection (AOP)
  - Light Normalizer - No Lumen drop during lifetime
- Integrated EOS technology:
  - Plug-and-play self-organizing wireless network
  - Encrypted communication
  - Advised maximum spacing for network: 30 meter
- Intuitive control and analysis with the EOS Manager app:
  - User authentication and data encryption
  - Visual representation of your EOS network
  - Extensive configuration, information, and usage statistics
  - Share sensor information between EOS devices
- Protected against dust and water intrusions

Features

Power supply	Integrated
Input voltage	90 - 305 Vac | 127 - 431Vdc
Frequency	47 - 63 Hz
Input power (max)	180 Watt
Input power (default)	145 Watt
Colour temperature (CCT)	4000 Kelvin
Colour rendering index (CRI)	83+
Colour consistency	5 Macadam Ellipses
Housing	PC-ABS white, Anodized Aluminium
Optics	PMMA
Dimensions	326 x 326 x 98 mm
Smart wireless technology	Yes
Motion sensor (PIR)	Integrated. Range: 15 meter
Daylight sensor (DLS)	Integrated
Mounting	Recessed and surface mounted
Connection cable	1500 mm EPR extra flexibility (-40C + 90C), UV resistant
IEC safety class	I
Ingress protection	IP67
Power factor	0.97 typical
Related input current	120V - 1.25A / 305V - 0.54A
AC harmonics	Less than 10% THD compliant to EN55015
Inrush current	65 A 1.2 ms
B-16A fuse	10 pcs
C-16A fuse	14 pcs
Operating temperature	-30°C to +60°C
Rated life (L80B10)	>100.000 hours
Rated life (L90B10)	>60.000 hours
Survival factor	0.96

RoHS COMPLIANT IP67 EMC CE CB

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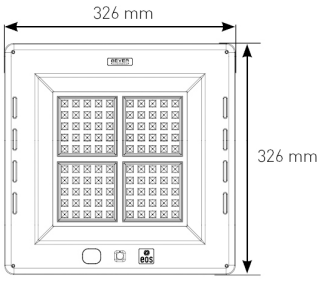
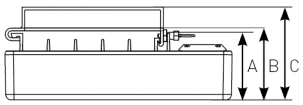
Dimensions





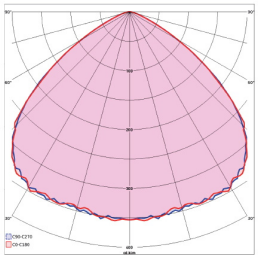
A recessed* = 98 mm

B surface mounted = 103 mm
(Low Mounting plate)

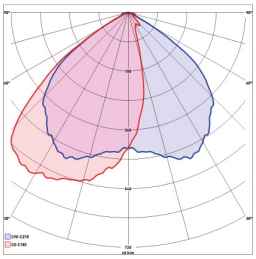
C surface mounted = 133 mm
(High Mounting plate)

* Optional recessed brackets available.

Optic

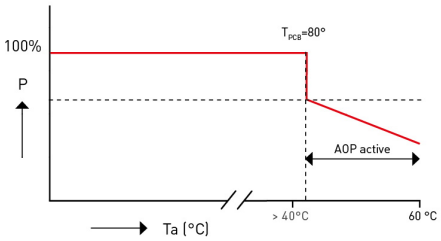


Symmetrical



Asymmetrical

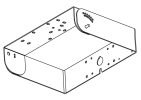
Operating temperature vs maximum output%



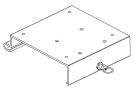
Ordering information

Name	SKU	Beam optic	Default power	Lumen (up-to)	Default efficacy	CCT	CRI	Weight
LS Downlight Smart PIR XL 100 LED								
LS Downlight 100LED 145W 4000K PIR XL Smart	20349	PMMA	145 W	23592 lm	137 lm/W	4000 K	83+	7.50 kg
LS Downlight Smart PIR XL 80 LED								
LS Downlight 80LED 145W 3000K PIR XL Smart	17810	PMMA	145 W	19496 lm	127 lm/W	3000 K	73+	7.50 kg
LS Downlight Smart PIR XL 80 + 4 LED								
LS Downlight 80+4LED 145W 4000K PIR XL Smart, Excl. Battery Pack.	19601	PMMA	145 W	22986 lm		4000 K	83+	7.50 kg

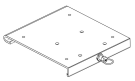
Accessories



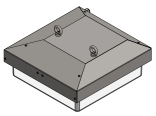
13429 Wall mount bracket (Requires low mounting plate, 12996)



13135 Mounting plate (standard)



12996 Mounting plate (Low profile)



17839 Cover Plate HACCP. Suitable for Luci V2.

20193 Smart+ upgrade

Compliances

IEC 60598-1	Luminaires - Part 1: General requirements and tests
IEC 60598-2-1	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminairesLu
IEC 60598-2-2	Luminaires - Part 2-2: Particular requirements - Recessed luminaires
IEC 62471: 2008	Photobiological safety of lamps and lamp systems
EMC directive 2014/30/EU:	_
- EN 55015: 2006 +A1:2007, +A2:2009	Limits and methods of measurement of radio distubance of electrical lighting and similar equipment
- EN 61000-3-2:2006 +A1:2009, A2:2009	Harmonic current emissions
- EN 61000-3-3:2008	Limitation of voltage fluctuations
- EN 61547:2009	Equipment for general lighting purposes. EMC immunity requirements. From which:
- EN 61000-4-2:2009	Electrostatic discharge [ESD] immunity
- EN 61000-4-3:2006 +A1:2008, +A	Radiated EM field immunity
- EN 61000-4-4:2004 +A1:2010	Electrical fast transient (EFT) immunity
- EN 61000-4-5:2006	Surge transient immunity
- EN 61000-4-6:2009	Conducted Radio-frequency disturbance immunity
- EN 61000-4-11:2004	Immunity to voltage dips and short interrupts
- ETSI EN 300 328 V1.9.1	Wideband transmission systems; Data transmission equipment operating in thye 2,4 GHz ISM band and using wide band modulation techniques

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