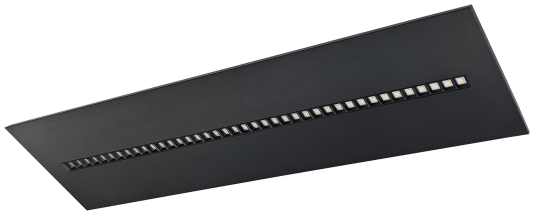
PRODUCT DATASHEET
PL INV 1200 ZB P 38W 940 U19 BK

PANEL INDIVILED 1200 ZIGBEE UGR<19 GEN 2 | Rectangular recessed panel luminaires with Zigbee 3.0, EVERLOOP design and low glare, 1200 x 300 mm



Areas of application

- Direct replacement for recessed luminaires with fluorescent lamps
- Offices, education, public buildings
- Conference rooms
- Suitable for recessed ceiling systems with grid size of 1200 x 300 mm

Product benefits

- Easy upgradeability of light source and driver (EVERLOOP design)
- Homogenous light distribution and reduced glare (UGR ≤ 19) thanks to IndiviLED® optics
- High performance with CRI 90 and up to 140 lm/W
- Suitable luminaire for DIRECT EASY / VIVARES Zigbee and other Zigbee 3.0 Light Management Systems
- Extended services such as energy monitoring and remote maintenance possible with Zigbee versions
- High color consistency with SDCM 3
- External driver for extended flexibility and easy installation
- Through wiring possible via included connector box
- Multiple mounting options thanks to different accessories
- Suitable for central battery emergency installations acc. to EN 60598-2-22

Product features

- Low-carbon steel housing, available in white and black color
- Includes EVERLOOP: Convenient replacement of light source and LED driver
- IoT-ready luminaire with Zigbee 3.0 technology
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm^2
- Lifetime (L80/B10): 70,000 h (at 25 °C)

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TECHNICAL DATA

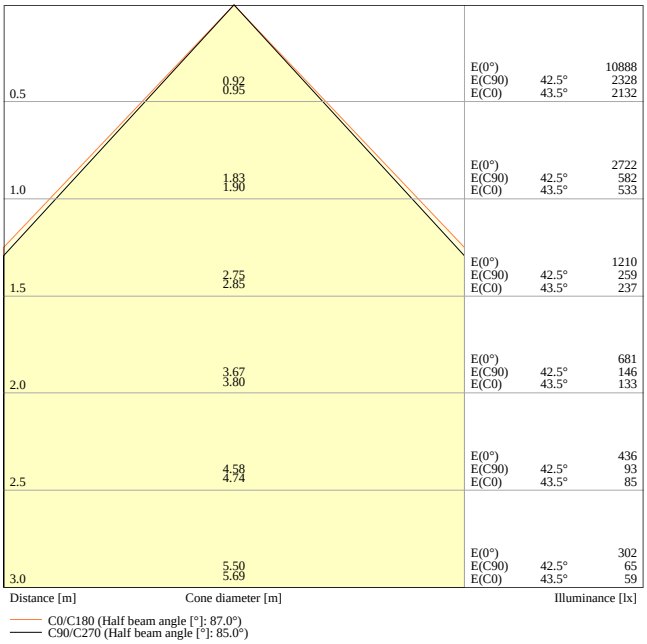
Electrical data

Nominal wattage	38.00 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	170.000 mA
Inrush current	5.24 A
Inrush current time T_{h50}	45 µs
Max. number of luminaires per miniature circuit breaker B16	55
Max. number of luminaires per miniature circuit breaker C10	34
Max. number of luminaires per miniature circuit breaker C16	55
Power factor λ	> 0.9
Maximum total harmonic distortion	≤ 20 %
Protection class	II
Operating mode	External LED driver
Dimming interface	Zigbee Direct / IoT

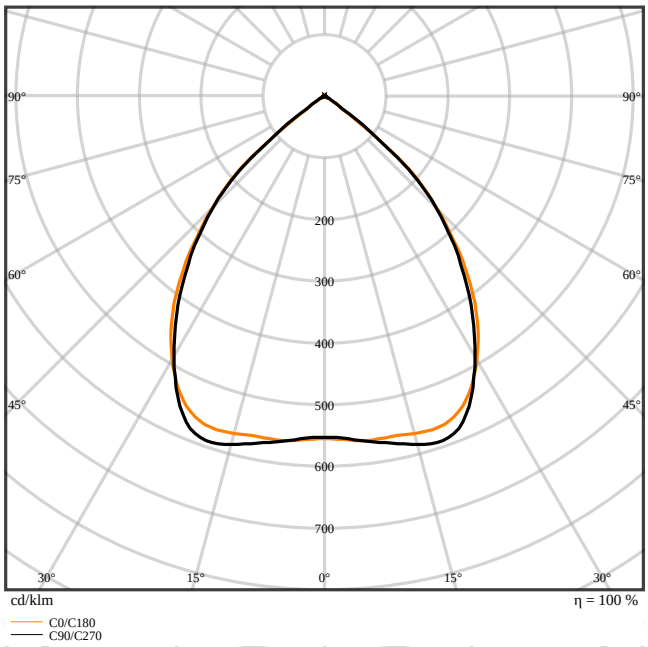
Photometrical data

Luminous flux	4900 lm
Luminous efficacy	129 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥90
Standard deviation of color matching	≤3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	≤1
Stroboscope effect metric (SVM)	≤ 0.4
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	90 °
CIE Flux code	78 99 100 100 100
UGR	< 19

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PL INV 1200 ZB P 38W 940 U19 BK-800mA



PL INV 1200 ZB P 38W 940 U19 BK-800mA

Dimensions & Weight

Length	1195.00 mm
Width	295.00 mm
Height	22.00 mm
Product weight	3400.00 g



PL INV 1200

Materials & Colors

Product color	Black
Housing color	Black

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RAL Color (most similar)	RAL 9005
Body material	Steel
Cover material	Steel
Light emitting surface material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-20…+45 °C
Temperature range at storage	-20…+80 °C
Type of connection	Screwless terminal
Type of protection	IP20
Protection class IK (shock resistance)	IK06
Dimmable	Yes
Type of dimming	ZIGBEE
IoT ready	Support of Zigbee Data Clusters: 0x0302 (Luminaire Asset Management), 0x0702 (Smart Energy: Metering), 0x0B04 (Electrical Measurement) [1)]
Mounting type	Recessed/Suspended/Surface
Mounting location	Ceiling
Application environment	Indoor
Mounting length	1175 mm
Mounting width	275 mm
Mounting depth	50 mm
Mechanically adjustable	No
With light source	Yes
Replaceable light source	Yes

1) Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

Lifespan

Lifespan L70/B50 at 25 °C	100000 h [1)]
Lifespan L80/B10 at 25 °C	70000 h [1)]
Lifespan L80/B50 at 25 °C	70000 h
Lifespan L90/B10 at 25 °C	35000 h [1)]
Number of switching cycles	50000

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

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Control gear

Output current	800 mA
Output ripple current (100 Hz)	3.0 %
ECG - Length	119,0 mm
ECG - Width	45 mm
ECG - Height	25 mm
Recommended control gear	DR ZIGBEE NF P 45W 220-240V 1A2

Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
Type of emergency operation test	None
Wattage in emergency operation mode	5.5 W
Luminous flux in emergency operation mode	860 lm

Certificates & Standards

Standards	CE / CB / ENEC / UKCA / EAC / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00079-V01.01-EN
Replaceable light source (EPREL)	Only by an expert

Additional product data

Added function	VIVARES / EVERLOOP

Accessories Optional

Product image	Product name	EAN
	PANEL Suspension Kit	4058075402928

EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- Connector box with 5-pole terminal included
- Security rope for luminaire included
- External control gear included with a switch to select preferred lumen level

Upgrade and replacement components

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Components Light Source

Product image	Product name	EAN
	LISOEV 1074x29 49 40W 940 S90U19 BK	4099854652080

Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.
- The external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire must be disposed of.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	G11286890 PANEL INDIVILED ZIGBEE
PDF	Addon technical information	Panel accessories compatibility overview
PDF	Extended installation guide	App Download Guide
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	LSI_Insert_PL_INV_ZB_P
PDF	Legal information	Legal Insert G11267435
PDF	Legal information	Safety Insert G11267436
PDF	Legal information	Emergency Insert PANEL INDIVILED
PDF	Declarations of conformity	PANEL INDIVILED ZIGBEE
PDF	Declarations of conformity UKCA	PANEL INDIVILED ZIGBEE
PDF	Certificates	ENEC_PANEL INDIVILED
PDF	EPD	EPD EN PANEL INDIVILED DALI

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	Photometric and lighting design files	Document name
	IES file (IES)	PL INV 1200 ZB P 38W 940 U19 BK-800mA
	LDT file (Eulumdat)	PL INV 1200 ZB P 38W 940 U19 BK-800mA
	ULD file (DIALux)	PL INV 1200 ZB P 38W 940 U19 BK
	ROLF file (RELUX)	PL INV 1200 ZB P 38W 940 U19 BK
	UGR file (UGR table)	PL INV 1200 ZB P 38W 940 U19 BK-800mA
	Light distribution curve type cone	PL INV 1200 ZB P 38W 940 U19 BK-800mA
	Light distribution curve type polar	PL INV 1200 ZB P 38W 940 U19 BK-800mA

	CAD/BIM files	Document name
	BIM Revit 3D	Panel Indiviled G2
	CAD STEP 3D	PL INV 1200 U19

	Tender texts	Document name
	Tender documents	PANEL INDIVILED 1200 ZIGBEE UGR 19 GEN 2 38W 940 U19 BK-en

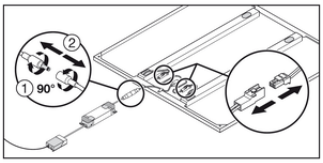
LOGISTICAL DATA

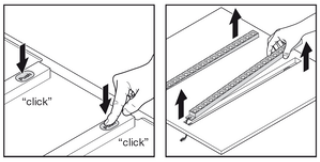
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854789397	Folding box 1	65 mm x 1,240 mm x 360 mm	3960.00 g	29.02 dm^3
4099854789403	Shipping box 2	1,255 mm x 145 mm x 360 mm	9080.00 g	65.51 dm^3

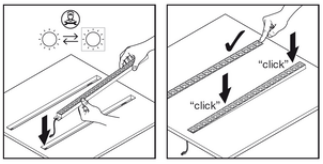
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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ADDITIONAL CATALOG INFORMATION







References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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