PRODUCT DATASHEET
LN INV D 1200 P 40W 940 PS EL BK

LINEAR INDIVILED DIRECT 1200 EMERGENCY | Surface mounted luminaire for single or light line office application with CRI90, Multi Lumen function and emergency battery, 1200 mm



Areas of application

- Emergency illumination of escape routes
- Buildings requiring up to 3 h emergency light operation
- Direct replacement for luminaires with fluorescent lamps
- Offices, education, public buildings
- Single and continuous line configuration
- Direct lighting

Product benefits

- Seamless integration of luminaires with emergency lighting function into general lighting
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Convenient visualization of results of automatic test with an included control LED
- Easy upgradeability of light source and driver (EVERLOOP design)
- Homogenous light distribution and reduced glare (UGR ≤ 19) thanks to IndiviLED® optics
- High performance with CRI90 and up to 130 lm/W
- Highly versatile due to selectable lumen steps (Multi Lumen) on the driver
- Symmetric light distribution for various application areas
- High color consistency with SDCM 3
- Multiple mounting options thanks to different accessories

Product features

- Certified according to European norms (EN 60598-2-22)
- Luminaire suitable for normal lighting and emergency lighting
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)

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- Battery technology: LiFePO4
- Includes EVERLOOP: Convenient replacement of light source and LED driver
- Linkable into seamless light line with accessories (surface or pendant mounting)
- Pendant mounting with suspension kit (to be ordered separetely)
- 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

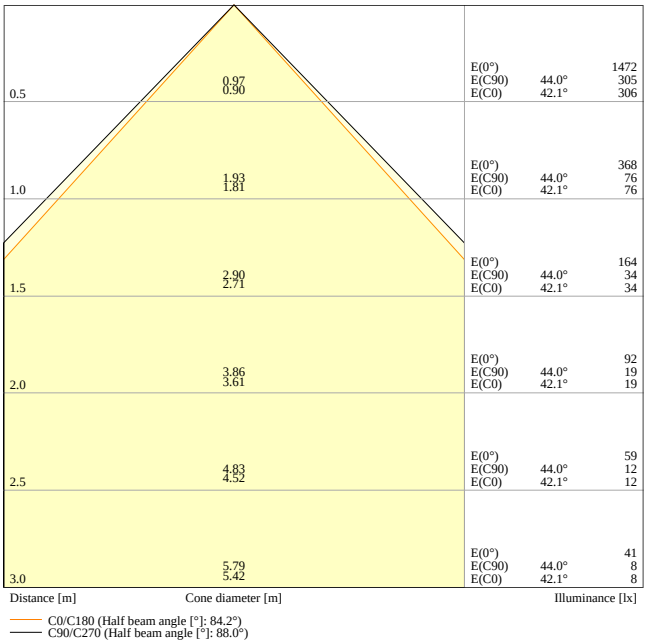
Electrical data

Nominal wattage	40 W / 36 W / 30 W / 25 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	185…170…140…120 mA
Inrush current	15 A
Inrush current time T_{h50}	50 µs
Max. number of luminaires per miniature circuit breaker B16	50
Max. number of luminaires per miniature circuit breaker C10	36
Max. number of luminaires per miniature circuit breaker C16	58
Power factor λ	> 0.90
Maximum total harmonic distortion	≤ 20 %
Protection class	I
Surge capability (L-N)	1000 V
Surge capability (L/N-Ground)	2000 V
Operating mode	Integrated LED driver

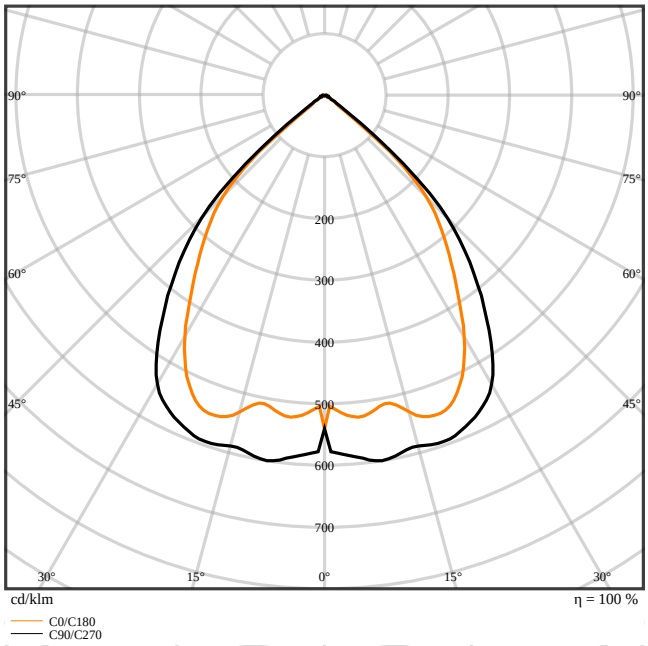
Photometrical data

Luminous flux	4900 lm / 4450 lm / 3800 lm / 3150 lm
Luminous efficacy	123 lm/W / 124 lm/W / 127 lm/W / 126 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
Beam angle	90 °
UGR	< 19

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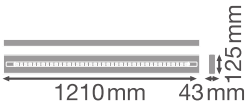
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
40 W	4000 K	4900 lm	123 lm/W
36 W	4000 K	4450 lm	124 lm/W
30 W	4000 K	3800 lm	127 lm/W
25 W	4000 K	3150 lm	126 lm/W

Dimensions & Weight

Length	1210.00 mm
Width	125.00 mm
Height	43.00 mm
Product weight	3400.00 g

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LN INV 1200 P

Materials & Colors

Product color	Black
Housing color	Black
RAL Color (most similar)	RAL 9005
Body material	Aluminum
Cover material	Polymethylmethacrylate (PMMA)
Light emitting surface material	Polymethylmethacrylate (PMMA)
Glow Wire Test according to IEC 60695-2-12	850 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	0…+40 °C
Temperature range at storage	-25…+25 °C
Type of connection	Screwless terminal
Type of protection	IP20
Protection class IK (shock resistance)	IK06
Dimmable	No
Mounting type	Suspended/Surface
Mounting location	Ceiling
Application environment	Indoor
Mechanically adjustable	No
With light source	Yes
Replaceable light source	Yes

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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	25000

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	800mA / 700mA / 600mA / 500 mA
Output ripple current (100 Hz)	≤ 5 %
Recommended control gear	OSRAM type IT FIT 40/220-240/800 CS L

BATTERY

Type of Battery	LiFePO4
Battery size [GMS]	Others
Nominal voltage of battery	3.2 V
Nominal capacity of battery	4500 mAh
Battery charging time	24 h

Emergency lighting

Type of Emergency Lighting (EL)	EL unit (battery and controller) for decentral operation included
Area of emergency application	Anti-panic lighting / Escape route lighting
Type of emergency light operation	Non-maintained / Maintained
Type of emergency operation test	Automatic
Wattage in emergency operation mode	2.3 W
Luminous flux in emergency operation mode	400 lm
Battery life in emergency operation mode	3 h

Certificates & Standards

Standards	CE / CB / ENEC / TÜV SÜD / UKCA / EAC / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Only by an expert

Additional product data

Number of illuminants	1

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Added function	EVERLOOP / MULTI LUMEN

Accessories Optional

Product image	Product name	EAN
	LN INV SUSPENSION KIT BK	4099854297069
	LN INV SUSPENSION WIRE	4099854323980
	LN INV 1200 THROUGHWIRING KIT	4099854214820
	LN INV INLINE CONNECTOR	4099854215612
	LN INV CORNER CONNECTOR BK	4099854308079
	LN INV INFILL 600 BK	4099854297045
	LN INV INFILL 1200 BK	4099854297007
	LN INV INFILL 1500 BK	4099854297021

EQUIPMENT / ACCESSORIES

- Suspension kit available for pendant luminaire version (to be ordered separately)
- Inline, corner and infill connectors available as separate accessory
- Through-wiring cable kit available

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.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LN INV D/DI 1200/1500 P PS EL
PDF	Legal information	Safety Insert G11205497
PDF	Legal information	Legal Insert G11235609
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	LN IND EM
PDF	Declarations of conformity UKCA	UKCA declaration LN INV D P PS EL

	Photometric and lighting design files	Document name
IES	IES file (IES)	LN INV D 1200 P 40W 940 EM BK
LDT	LDT file (Eulumdat)	LN INV D 1200 P 40W 940 EM BK
	UGR file (UGR table)	LN INV D 1200 P 40W 940 EM BK
	Light distribution curve type cone	LN INV D 1200 P 40W 940 EM BK
	Light distribution curve type polar	LN INV D 1200 P 40W 940 EM BK

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	CAD/BIM files	Document name
	CAD STEP 3D	LN INV D 1200 G2

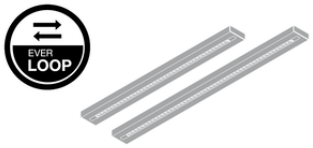
	Tender texts	Document name
	Tender documents	LINEAR INDIVILED DIRECT 1200 EMERGENCY 1200 P 40W 940 PS EL BK-en

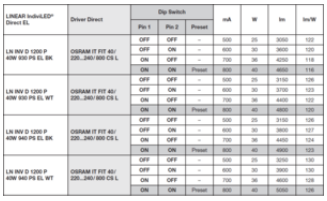
LOGISTICAL DATA

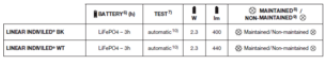
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854297571	Folding box 1	178 mm x 1,263 mm x 103 mm	3800.00 g	23.16 dm^3
4099854297588	Shipping box 2	1,297 mm x 197 mm x 224 mm	9000.00 g	57.23 dm^3

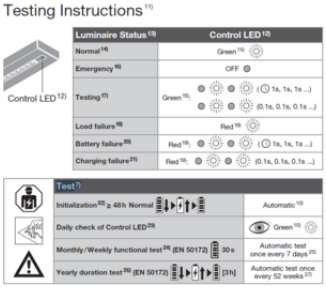
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION

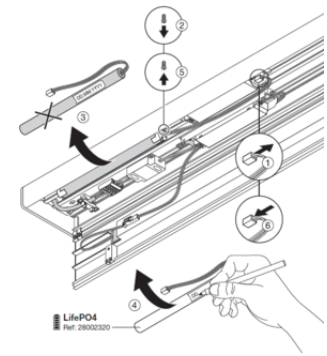












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References / Links

– 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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