

PRODUCT DATASHEET

LN INV D 1500 P 52W 930 PS EL WT

LINEAR INDIVILED DIRECT 1500 EMERGENCY | Surface mounted luminaire for single or light line office application with CRI90, power select (PS) feature and emergency battery, 1500 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 ($UGR \leq 19$) thanks to IndiviLED® optics
- High performance with CRI90 and up to 130 lm/W
- Highly versatile due to selectable power steps (Power Select - PS) on the driver
- 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



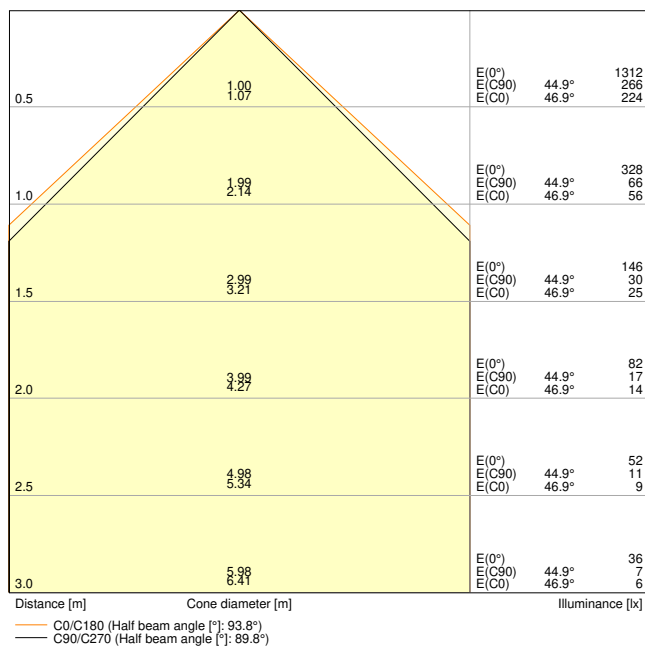
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO₄
- Includes EVERLOOP: Convenient replacement of light source and LED driver
- Linkable into seamless light line with accessories (surface or pendant mounting)
- Pendant mounting with suspension kit (to be ordered separately)
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm²
- Lifetime (L80/B10): 70,000 h (at 25 °C)

TECHNICAL DATA**Electrical data**

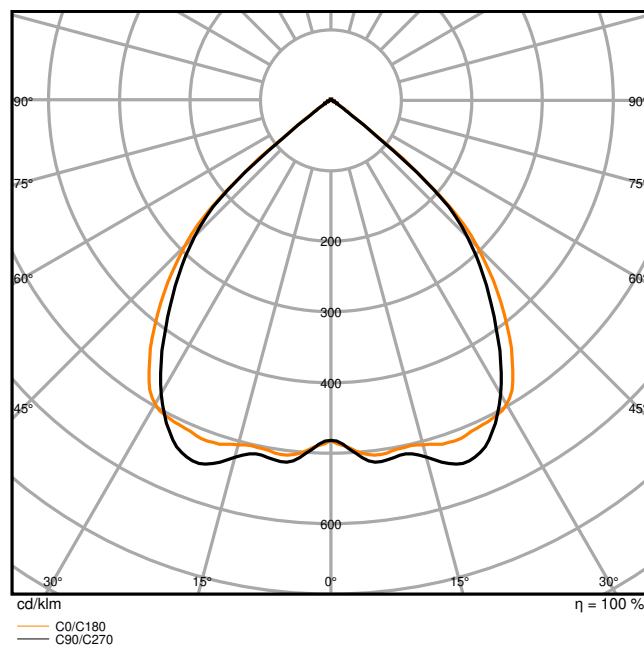
Nominal wattage	52 W / 48 W / 46 W / 40 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	240mA / 220mA / 205mA / 185 mA
Inrush current	14.6 A
Inrush current time T_{h50}	170 μ s
Max. number of luminaires per miniature circuit breaker B16	28
Max. number of luminaires per miniature circuit breaker C10	23
Max. number of luminaires per miniature circuit breaker C16	38
Power factor λ	> 0.90
Total harmonic distortion	$\leq$ 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	6050 lm / 5650 lm / 5450 lm / 4850 lm
Luminous efficacy	116 lm/W / 118 lm/W / 118 lm/W / 121 lm/W
Color temperature	3000 K
Light color (designation)	Warm White
Color rendering index Ra	$\geq$ 90
Standard deviation of color matching	3 sdc _m
Low flicker	Yes
Flickering metric (Pst LM)	$\leq$ 1
Stroboscope effect metric (SVM)	$\leq$ 0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	90 °
UGR	< 19



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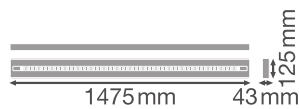
LN INV D 1500 P 52W 930 EM WT

Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
52 W	3000 K	6050 lm	116 lm/W
48 W	3000 K	5650 lm	118 lm/W
46 W	3000 K	5450 lm	118 lm/W
40 W	3000 K	4850 lm	121 lm/W

Dimensions & Weight

Length	1475.00 mm
Width	125.00 mm
Height	43.00 mm
Product weight	4100.00 g



LN INV 1500 P

Materials & Colors

Product color	White
Housing color	White
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
Adjustable	No
With light source	Yes
Replaceable light source	Yes

Lifespan

Lifespan L70/B50 at 25 °C	100000 h ¹⁾
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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
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	1050mA / 975mA / 900mA / 800 mA
ECG - Output ripple current	≤ 5 %
Recommended control gear	OSRAM OT FIT 55/220–240/1A0 CS L AP

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	440 lm
Battery life in emergency operation mode	3 h

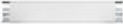
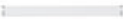
Certificates & Standards

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)	By the end consumer

Additional product data

Product remark	Available from July 2025
Number of illuminants	1
Added function	EVERLOOP / MULTI SELECT

Accessories Optional

Product image	Product name	EAN
	LN INV SUSPENSION KIT WT	4099854215537
	LN INV SUSPENSION WIRE	4099854323980
	LN INV 1500 THROUGHWIRING KIT	4099854214806
	LN INV INLINE CONNECTOR	4099854215612
	LN INV CORNER CONNECTOR WT	4099854308093
	LN INV INFILL 600 WT	4099854214882
	LN INV INFILL 1200 WT	4099854214868
	LN INV INFILL 1500 WT	4099854214844

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

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

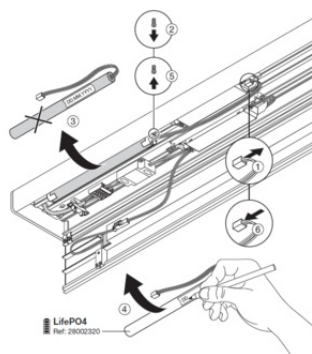
Documents and certificates		Document name
	User instruction / safety instructions	LN INV D/DI 1200/1500 P PS EL
	Legal information	Safety Insert G11205497
	Legal information	Legal Insert G11235609
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	LN IND EM
	Declarations of conformity	CE declaration LN INV D P PS EL
	Declarations of conformity UKCA	UKCA declaration LN INV D P PS EL
Photometric and lighting design files		Document name
	IES file (IES)	LN INV D 1500 P 52W 930 EM WT
	LDT file (Eulumdat)	LN INV D 1500 P 52W 930 EM WT
	UGR file (UGR table)	LN INV D 1500 P 52W 930 EM WT
	Light distribution curve type cone	LN INV D 1500 P 52W 930 EM WT
	Light distribution curve type polar	LN INV D 1500 P 52W 930 EM WT
CAD/BIM files		Document name
	CAD STEP 3D	LN INV D 1500 G2

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854249730	Folding box 1	177 mm x 1,530 mm x 102 mm	4850.00 g	27.62 dm ³
4099854249747	Shipping box 2	1,550 mm x 197 mm x 224 mm	11300.00 g	68.40 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



LN INV D 1500 P 52W 930 PS EL WT	OSRAM OF FIT SIR C5 L AP V3.2	OFF	ON	-	800	40	4100	118
		OFF	ON	-	500	40	5300	115
		ON	OFF	-	575	40	5000	115
		ON	ON	Phase	1000	32	5900	113
		OFF	OFF	-	800	40	4000	121
		ON	ON	-	900	40	5400	118
		ON	ON	Phase	1000	32	6000	116
		OFF	ON	-	800	40	5000	126
		ON	ON	-	900	40	5700	124
		ON	OFF	-	575	40	5000	123
		ON	ON	Phase	1000	32	6000	122
		OFF	OFF	-	800	40	5000	130
		ON	ON	-	900	40	5000	126
		ON	OFF	-	575	40	6100	127
		ON	ON	Phase	1000	32	6000	126

BATTERY ¹⁾ IN	TEST ¹⁾	W	h	mm	REMARKS ²⁾
LINEAR NONLED ³⁾ BK	LiFePO ₄ - 3h	automatic ¹⁾	2.3	400	Maintained/Non-maintained ⁴⁾
LINEAR NONLED ³⁾ WT	LiFePO ₄ - 3h	automatic ¹⁾	2.3	440	Maintained/Non-maintained ⁴⁾

Testing Instructions¹⁾

Control LED ¹²⁾	Luminaire Status ¹⁾		Control LED ¹³⁾	
	Normal ¹⁴⁾	Emergency ¹⁵⁾	Green ¹⁶⁾	Red ¹⁷⁾
Testing ¹⁾	Green ¹⁶⁾	Green ¹⁶⁾	Green ¹⁶⁾	Red ¹⁷⁾
	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)
Loaded failure ¹⁸⁾	Red ¹⁷⁾	Red ¹⁷⁾	Red ¹⁷⁾	Red ¹⁷⁾
	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)
Battery failure ¹⁹⁾	Red ¹⁷⁾	Red ¹⁷⁾	Red ¹⁷⁾	Red ¹⁷⁾
	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)
Charging failure ²⁰⁾	Red ¹⁷⁾	Red ¹⁷⁾	Red ¹⁷⁾	Red ¹⁷⁾
	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)	(5 1s, 0 1s, 0 1s ...)
Test ¹⁾	Initialization ²¹⁾ ≥ 48h Normal	Automatic ¹⁾	Automatic ¹⁾	Automatic ¹⁾
	Daily check of Control LED ²²⁾	Green ¹⁶⁾	Green ¹⁶⁾	Green ¹⁶⁾
Monthly/Weekly functional test ²³⁾ (EN 50172)	90s	Automatic test once every 7 days ²⁴⁾	Automatic test once every 7 days ²⁴⁾	Automatic test once every 7 days ²⁴⁾
	Yearly duration test ²⁵⁾ (EN 50172)	Automatic test once every 52 weeks ²⁶⁾	Automatic test once every 52 weeks ²⁶⁾	Automatic test once every 52 weeks ²⁶⁾

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.