

PRODUCT DATASHEET

LN INV D 1500 P 52W 930 DA EL BK

LINEAR INDIVILED DIRECT 1500 DALI EMERGENCY | Surface mounted luminaire for single or light line office application with CRI90, DALI-2 IoT technology 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



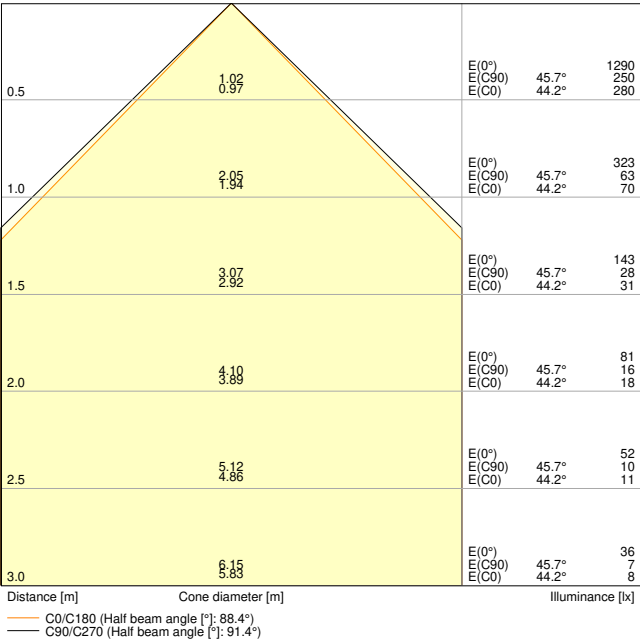
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO4
- Includes EVERLOOP: Convenient replacement of light source and LED driver
- Linkable into seamless light line with accessories (surface or pendant mounting)
- 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**

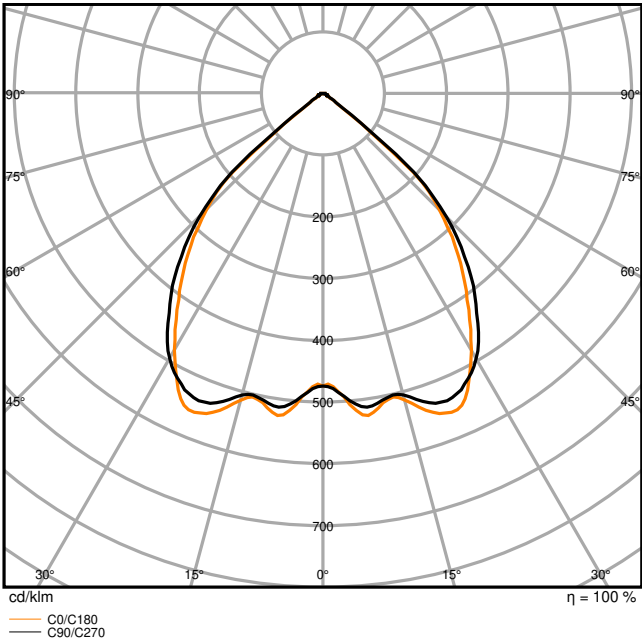
Nominal wattage	52 W / 48 W / 44 W / 39 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	232...210...200...185 mA
Inrush current	25.2 A
Inrush current time T_{h50}	40 μ s
Max. number of luminaires per miniature circuit breaker B16	29
Max. number of luminaires per miniature circuit 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
Dimming interface	DALI-2/IoT

Photometrical data

Luminous flux	5950 lm / 5450 lm / 5250 lm / 4700 lm
Luminous efficacy	114 lm/W / 114 lm/W / 119 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 sdcn
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



LN INV D 1500 P 52W 930 DAVR EM BK



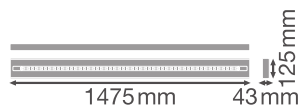
LN INV D 1500 P 52W 930 DAVR EM BK

Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
52 W	3000 K	5950 lm	114 lm/W
48 W	3000 K	5450 lm	114 lm/W
44 W	3000 K	5250 lm	119 lm/W
39 W	3000 K	4700 lm	121 lm/W

Dimensions & Weight

Length	1475.00 mm
Width	125.00 mm
Height	43.00 mm
Product weight	4250.00 g



LN INV 1500 P

Materials & Colors

Product color	Black
Housing color	Black
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, 5-Pole (L, N, PE, DA+, DA-)
Type of protection	IP20
Protection class IK (shock resistance)	IK06
Dimmable	Yes
Type of dimming	DALI
IoT ready	Support of DALI data type PART 251, 252, 253 ¹⁾
Mounting type	Suspended/Surface
Mounting location	Ceiling
Application environment	Indoor
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
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 type OT DALI 50/220-240/1A4 NFC 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 / EL certified driver (0Hz / DC operation) for central battery 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)	By the end consumer

Additional product data

Product remark	Available from July 2025
Number of illuminants	1
Added function	EVERLOOP / VIVARES / Programmable Multi Lumen

Accessories Optional

Product image	Product name	EAN
	LN INV SUSPENSION KIT BK	4099854297069
	LN INV SUSPENSION WIRE	4099854323980
	LN INV 1500 THROUGHWIRING KIT	4099854214806
	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

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 DA EL
	Legal information	Safety Insert G11205497
	Legal information	Legal Insert G11235610
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	LN IND DALI EM
	Declarations of conformity	CE declaration LN IND D P DA EL
	Declarations of conformity UKCA	UKCA declaration LN INV D P DA EL
	EU Data Act	DALI LED Driver and Luminaires
Photometric and lighting design files		Document name
	IES file (IES)	LN INV D 1500 P 52W 930 DAVR EM BK
	LDT file (Eulumdat)	LN INV D 1500 P 52W 930 DAVR EM BK
	UGR file (UGR table)	LN INV D 1500 P 52W 930 DAVR EM BK
	Light distribution curve type cone	LN INV D 1500 P 52W 930 DAVR EM BK
	Light distribution curve type polar	LN INV D 1500 P 52W 930 DAVR EM BK

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
4099854297656	Folding box 1	177 mm x 1,530 mm x 102 mm	4520.00 g	27.62 dm ³
4099854297663	Shipping box 2	1,550 mm x 197 mm x 224 mm	10640.00 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 DA EL WT	OSRAM OTI DALI 50/ 220-240/1A4 NFC L	850	38	4950	133	✓
		900	44	6400	120	✓
LN INV D 1500 P 52W 930 DA EL BK	OSRAM OTI DALI 50/ 220-240/1A4 NFC L	975	48	5600	117	✓
		1050	52	6100	117	Presel
LN INV D 1500 P 52W 940 DA EL WT	OSRAM OTI DALI 50/ 220-240/1A4 NFC L	850	38	4700	123	✓
		900	44	5200	119	✓
LN INV D 1500 P 52W 940 DA EL BK	OSRAM OTI DALI 50/ 220-240/1A4 NFC L	975	48	5400	114	✓
		1050	52	5900	114	Presel
LN INV D 1500 P 52W 940 DA EL WT	OSRAM OTI DALI 50/ 220-240/1A4 NFC L	850	38	5200	120	✓
		900	44	5600	120	✓
LN INV D 1500 P 52W 940 DA EL BK	OSRAM OTI DALI 50/ 220-240/1A4 NFC L	975	48	6000	120	✓
		1050	52	6400	120	Presel
LN INV D 1500 P 52W 940 DA EL WT	OSRAM OTI DALI 50/ 220-240/1A4 NFC L	850	38	6100	121	✓
		900	44	6700	120	✓
LN INV D 1500 P 52W 940 DA EL BK	OSRAM OTI DALI 50/ 220-240/1A4 NFC L	975	48	6800	120	✓
		1050	52	7300	120	Presel

	BATTERY ¹⁾	TEST ¹⁾	W	Im	MAINTAINED ²⁾ / NON-MAINTAINED ²⁾
LINEAR INVOILED [®] BK	LiFePO ₄ - 2h	automatic ¹⁾	2.3	400	Ⓜ Maintained/Non-maintained Ⓜ
LINEAR INVOILED [®] WT	LiFePO ₄ - 2h	automatic ¹⁾	2.3	440	Ⓜ Maintained/Non-maintained Ⓜ

Testing Instructions¹⁾

 Control LED ¹⁾	Luminaire Status ¹⁾		Control LED ¹⁾	
	Normal ¹⁾	Emergency ¹⁾	Green ¹⁾	Red ¹⁾
	Emergency ¹⁾		OFF ¹⁾	
	Testing ¹⁾		Green ¹⁾	Red ¹⁾
	Load failure ¹⁾		Red ¹⁾	
	Battery failure ¹⁾		Red ¹⁾	
	Charging failure ¹⁾		Red ¹⁾	
Test ¹⁾				
	Initialization ¹⁾ ≥ 48h Normal			Automatic ¹⁾
	Daily check of Control LED ¹⁾			Green ¹⁾
	Monthly/Weekly functional test ¹⁾ (EN 50172) 30s			Automatic test once every 7 days ¹⁾
	Yearly duration test ¹⁾ (EN 50172) 30s			Automatic test once every 32 weeks ¹⁾

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.