PRODUCT DATASHEET
LN INV D 1500 P 52W 940 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 ≤ 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
- 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

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- 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

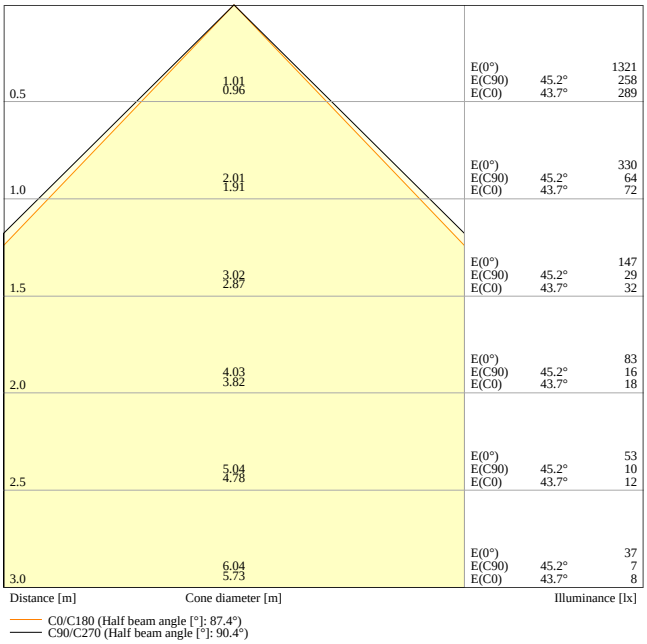
Electrical data

Nominal wattage	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 µs
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
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
Dimming interface	DALI-2 / IoT

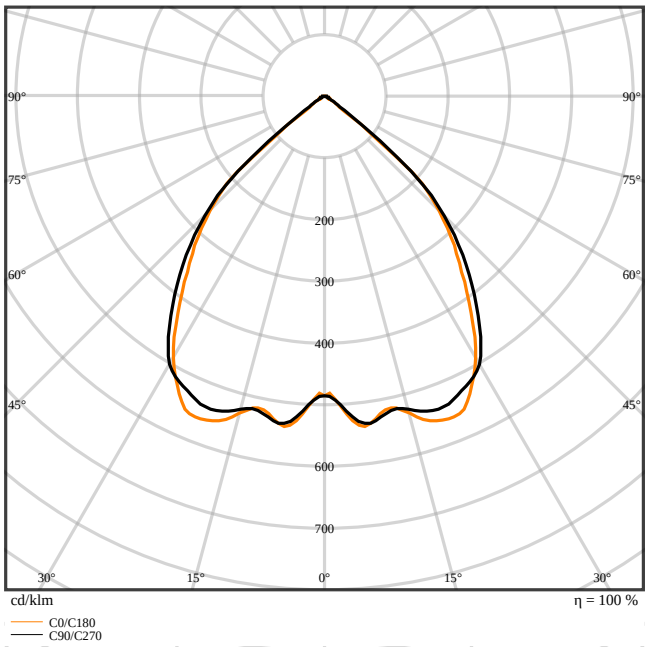
Photometrical data

Luminous flux	6250 lm / 5850 lm / 5700 lm / 5100 lm
Luminous efficacy	120 lm/W / 122 lm/W / 130 lm/W / 131 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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LN INV D 1500 P 52W 940 DAVR EM BK



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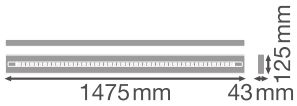
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
52 W	4000 K	6250 lm	120 lm/W
48 W	4000 K	5850 lm	122 lm/W
44 W	4000 K	5700 lm	130 lm/W
39 W	4000 K	5100 lm	131 lm/W

Dimensions & Weight

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

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LN INV 1500 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, 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
Mechanically adjustable	No
With light source	Yes
Replaceable light source	Yes

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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	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
Output ripple current (100 Hz)	≤ 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)	Only by an expert

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Additional product data

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

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Upgrade and replacement components

Components Light Source

Product image	Product name	EAN
	LISOEV 1339x29 63 52W 940 S90U19 BK	4099854652158

Components for light control

Components Light Control

Product image	Product name	EAN
	MANUAL CONTROL UNIT GROUP DALI-2 TW	4099854748691
	MANUAL CONTROL UNIT SELECT DALI-2	4058075837485
	MANUAL CONTROL UNIT SELECT DALI-2 TW	4058075837508
	MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW	4058075837522
	MANUAL CONTROL UNIT TOUCH DALI-2 TW	4058075837560
	MANUAL CONTROL UNIT TOUCH DALI-2	4058075837546
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584

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Product image	Product name	EAN
	PUSH CONTROL UNIT FM DALI-2 DIM	4099854846922
	SURFACE MOUNT FRAME	4058075843561
	PUSHBUTTON COUPLER DALI-2	4058075837607
	FLEX CONTROL UNIT IOT DALI-2 HCL TW	4058075841888
	FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075841901
	FLEX CONTROL UNIT DALI-2 TW	4058075843844
	FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW	4058075841925
	SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION	4058075837621
	SENSOR CEILING MOUNTING KIT LIGHT/PRESENCE-6	4099854748714
	SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION	4058075841949
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868

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Product image	Product name	EAN
	SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING	4058075843882
	HIGHBAY SENSOR DALI-2 LIGHT/PRESENCE -21 INFRARED CEILING MOUNTING	4058075857537
	DALI sensors -8 IR CI, -40X5 IR CI, -24 IR CM, -21 IR CM	4058075843905
	RELAY DALI-2 RAIL MOUNTING	4099854709159
	RELAY DALI-2 CEILING MOUNTING	4099854709135
	REPEATER DALI-2 RAIL MOUNTING	4099854709111
	REPEATER DALI-2 CEILING MOUNTING	4099854709098

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 DA EL
PDF	Legal information	Safety Insert G11205497
PDF	Legal information	Legal Insert G11235610

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	Documents and certificates	Document name
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	LN IND DALI EM
PDF	Declarations of conformity	CE declaration LN IND D P DA EL
PDF	Declarations of conformity UKCA	UKCA declaration LN INV D P DA EL
PDF	EU Data Act	DALI LED Driver and Luminaires

	Photometric and lighting design files	Document name
IES	IES file (IES)	LN INV D 1500 P 52W 940 DAVR EM BK
LDT	LDT file (Eulumdat)	LN INV D 1500 P 52W 940 DAVR EM BK
	UGR file (UGR table)	LN INV D 1500 P 52W 940 DAVR EM BK
	Light distribution curve type cone	LN INV D 1500 P 52W 940 DAVR EM BK
	Light distribution curve type polar	LN INV D 1500 P 52W 940 DAVR EM BK

	CAD/BIM files	Document name
STEP	CAD STEP 3D	LN INV D 1500 G2

	Tender texts	Document name
TXT	Tender documents	LINEAR INDIVILED DIRECT 1500 DALI EMERGENCY 1500 P 52W 940 DA EL BK -en

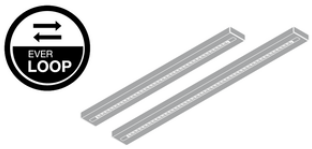
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854297717	Folding box 1	177 mm x 1,530 mm x 102 mm	4520.00 g	27.62 dm^3
4099854297724	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.

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ADDITIONAL CATALOG INFORMATION



LN INV D 1500 P 52W 930 DA EL WT	OSRAM OTi DALI 50/ 220-240/1A4 NFC L	800	39	4850	124	✓
		900	44	5400	123	✓
		975	48	5600	117	✓
		1050	52	6100	117	Preset
LN INV D 1500 P 52W 930 DA EL BK	OSRAM OTi DALI 50/ 220-240/1A4 NFC L	800	39	4700	121	✓
		900	44	5250	119	✓
		975	48	5450	114	✓
		1050	52	5950	114	Preset
LN INV D 1500 P 52W 940 DA EL WT	OSRAM OTi DALI 50/ 220-240/1A4 NFC L	800	39	5250	136	✓
		900	44	5850	133	✓
		975	48	6000	135	✓
		1050	52	6400	133	Preset
LN INV D 1500 P 52W 940 DA EL BK	OSRAM OTi DALI 50/ 220-240/1A4 NFC L	800	39	5100	131	✓
		900	44	5700	130	✓
		975	48	5850	122	✓
		1050	52	6250	120	Preset

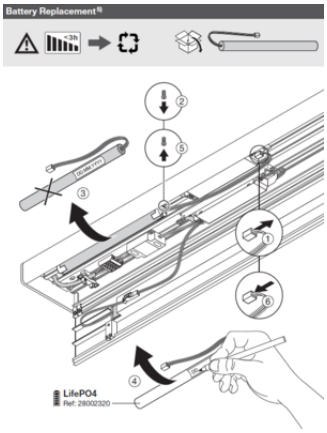
	BATTERY[6] [h]	TEST[7]	kg	lbs	MAINTAINED[8] / NON-MAINTAINED[9]
LINEAR INDIVILED® BK	LiFePO4 – 3h	automatic[10]	2.3	400	Maintained/Non-maintained
LINEAR INDIVILED® WT	LiFePO4 – 3h	automatic[10]	2.3	440	Maintained/Non-maintained

Testing Instructions[11]



Luminaire Status[13]	Control LED[12]
Normal[14]	Green[15]
Emergency[16]	OFF
Testing[17]	Green[15]; (1s, 1s, 1s ...) (0.1s, 0.1s, 0.1s ...)
Load failure[18]	Red[18]
Battery failure[20]	Red[18]; (1s, 1s, 1s ...)
Charging failure[21]	Red[18]; (0.1s, 0.1s, 0.1s ...)

Test[7]	
Initialization[22] ≥ 48 h Normal	Automatic[10]
Daily check of Control LED[23]	Green[15]
Monthly / Weekly functional test[24] (EN 50172) 30 s	Automatic test once every 7 days[25]
Yearly duration test[26] (EN 50172) [3h]	Automatic test once every 52 weeks[27]



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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