PRODUCT DATASHEET
LN INV DI 1200 P 54W 940 DA EL WT

LINEAR INDIVILED DIRECT/INDIRECT 1200 DALI EMERGENCY | Pendant luminaire for single or light line office application with CRI90, DALI-2 IoT technology 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 and indirect 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

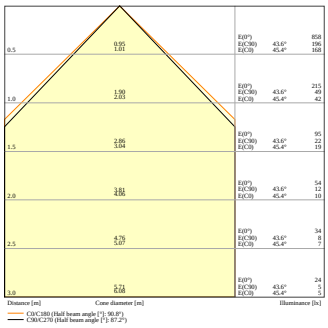
Electrical data

Nominal wattage	54 W / 48 W / 43 W / 34 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	233…205…195…160 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

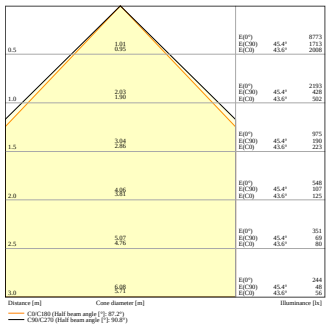
Photometrical data

Luminous flux	6950 lm / 6050 lm / 5600 lm / 4650 lm
Luminous efficacy	129 lm/W / 126 lm/W / 132 lm/W / 137 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 ° + 130 °
UGR	< 19

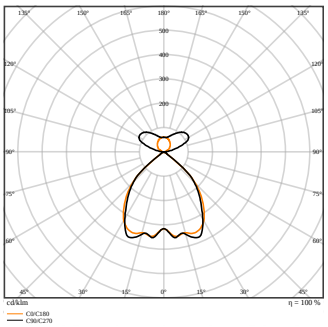
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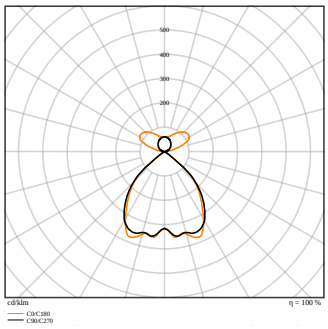
LN INV DI 1200 P 54W 940 DAVR EM WT



LN INV DI 1200 P 54W 940 DA EL WT 1100mA



LN INV DI 1200 P 54W 940 DAVR EM WT



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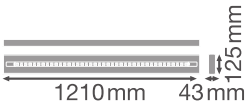
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
54 W	4000 K	6950 lm	129 lm/W
48 W	4000 K	6050 lm	126 lm/W
43 W	4000 K	5600 lm	132 lm/W
34 W	4000 K	4650 lm	137 lm/W

Dimensions & Weight

Length	1210.00 mm
Width	125.00 mm
Height	43.00 mm
Product weight	3800.00 g

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LN INV 1200 P

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
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
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	1100mA / 950mA / 850mA / 700 mA
Output ripple current (100 Hz)	≤ 5 %
Recommended control gear	OSRAM type OTI 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	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)	Only by an expert

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Additional product data

Number of illuminants	2
Added function	EVERLOOP / VIVARES / Programmable Multi Lumen

Required Accessories and Components

Product image	Product name	EAN
	LN INV SUSPENSION KIT WT	4099854215537
	LN INV SUSPENSION WIRE	4099854323980

Accessories Optional

Product image	Product name	EAN
	LN INV 1200 THROUGHWIRING KIT	4099854214820
	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

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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

Components Light Source

Product image	Product name	EAN
	LISOEV 1074x29 50 40W 940 S90U19 GY	4099854284809
	LISOEV 1200x31 23 18W 940 S130	4099854284960

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

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Product image	Product name	EAN
	MANUAL CONTROL UNIT TOUCH DALI-2	4058075837546
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584
	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

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Product image	Product name	EAN
	SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION	4058075841949
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868
	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.

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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
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 DI 1200 P 54W 940 DAVR EM WT
IES	IES file (IES)	LN INV DI 1200 P 54W 940 DA EL WT 1100mA
LDT	LDT file (Eulumdat)	LN INV DI 1200 P 54W 940 DAVR EM WT
LDT	LDT file (Eulumdat)	LN INV DI 1200 P 54W 940 DA EL WT 1100mA
	UGR file (UGR table)	LN INV DI 1200 P 54W 940 DAVR EM WT
	UGR file (UGR table)	LN INV DI 1200 P 54W 940 DA EL WT 1100mA
	Light distribution curve type cone	LN INV DI 1200 P 54W 940 DAVR EM WT
	Light distribution curve type cone	LN INV DI 1200 P 54W 940 DA EL WT 1100mA
	Light distribution curve type polar	LN INV DI 1200 P 54W 940 DAVR EM WT
	Light distribution curve type polar	LN INV DI 1200 P 54W 940 DA EL WT 1100mA

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

	Tender texts	Document name
	Tender documents	LINEAR INDIVILED DIRECT INDIRECT 1200 DALI EMERGENCY 1200 P 54W 940 DA EL WT-en

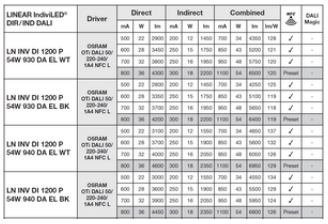
LOGISTICAL DATA

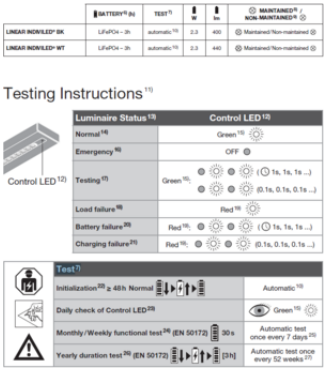
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854249617	Folding box 1	178 mm x 1,263 mm x 103 mm	4440.00 g	23.16 dm^3
4099854249624	Shipping box 2	1,297 mm x 197 mm x 224 mm	10280.00 g	57.23 dm^3

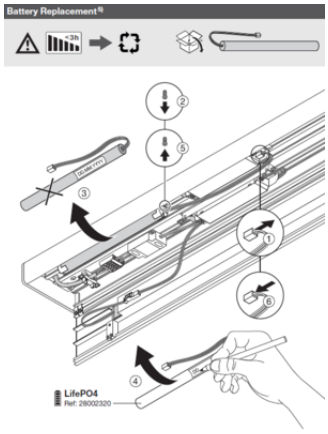
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION









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References / Links

– For Guarantee see www.ledvance.com/guarantee

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