

PRODUCT DATASHEET

LN INV DI 1200 P 54W 940 DA EL BK

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 ($UGR \leq 19$) 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
- 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)
- 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)

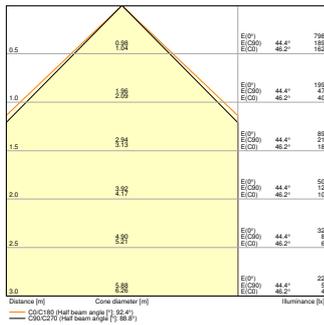
TECHNICAL DATA

Electrical data

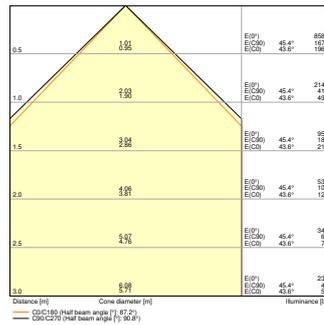
Nominal wattage	54 W / 48 W / 43 W / 34 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	233...205...195...160 mA
Inrush current	25.2 A
Inrush current time T_{h50}	40 μ s
Max. number of luminaires per miniature circuit breaker B16	29
Max. number of luminaires per miniature circuit 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

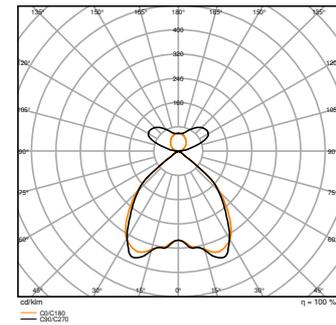
Luminous flux	6800 lm / 5950 lm / 5500 lm / 4550 lm
Luminous efficacy	126 lm/W / 124 lm/W / 129 lm/W / 134 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	\geq 90
Standard deviation of color matching	3 sdc _m
Low flicker	Yes
Flickering metric (Pst LM)	\leq 1
Stroboscope effect metric (SVM)	\leq 0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	90 ° + 130 °
UGR	< 19



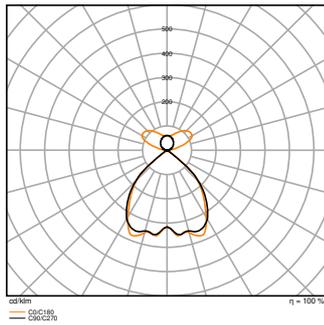
LN INV DI 1200 P 54W 940 DA VR
EM BK



LN INV DI 1200 P 55W 940 DA EL
BK 1100mA



LN INV DI 1200 P 54W 940 DA VR
EM BK



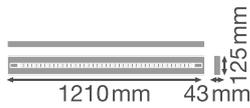
LN INV DI 1200 P 55W 940 DA EL
BK 1100mA

Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
54 W	4000 K	6800 lm	126 lm/W
48 W	4000 K	5950 lm	124 lm/W
43 W	4000 K	5500 lm	129 lm/W
34 W	4000 K	4550 lm	134 lm/W

Dimensions & Weight

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



LN INV 1200 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
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	1100mA / 950mA / 850mA / 700 mA
ECG - Output ripple current	≤ 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	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

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

Accessories Mandatory

Product image	Product name	EAN
	LN INV SUSPENSION KIT BK	4099854297069
	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 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 DI 1200 P 54W 940 DAVR EM BK
	IES file (IES)	LN INV DI 1200 P 55W 940 DA EL BK 1100mA
	LDT file (Eulumdat)	LN INV DI 1200 P 54W 940 DAVR EM BK

Photometric and lighting design files		Document name
	LDT file (Eulumdat)	LN INV DI 1200 P 55W 940 DA EL BK 1100mA
	UGR file (UGR table)	LN INV DI 1200 P 54W 940 DAVR EM BK
	UGR file (UGR table)	LN INV DI 1200 P 55W 940 DA EL BK 1100mA
	Light distribution curve type cone	LN INV DI 1200 P 54W 940 DAVR EM BK
	Light distribution curve type cone	LN INV DI 1200 P 55W 940 DA EL BK 1100mA
	Light distribution curve type polar	LN INV DI 1200 P 54W 940 DAVR EM BK
	Light distribution curve type polar	LN INV DI 1200 P 55W 940 DA EL BK 1100mA
CAD/BIM files		Document name
	CAD STEP 3D	LN INV D I 1200 G2

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854297793	Folding box 1	178 mm x 1,263 mm x 103 mm	4440.00 g	23.16 dm ³
4099854297809	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



LINEAR INDILED® DRV/IND DALI	Driver	Direct			Indirect			Combined			DALI Magis	
		mA	W	lm	mA	W	lm	mA	W	lm		
LN INV DI 1200 P 54W 940 DA EL WT	OSRAM POT-DALI-DP 335-DAP MA MPCL	800	22	2990	200	12	1490	790	24	4200	129	✓
	800	28	3440	250	15	1750	850	25	5200	120	✓	
	800	38	4900	300	18	2050	1100	34	6900	120	✓	
LN INV DI 1200 P 54W 940 DA EL BK	OSRAM POT-DALI-DP 335-DAP MA MPCL	800	22	2990	200	12	1490	790	24	4200	129	✓
	800	28	3440	250	15	1750	850	25	5200	120	✓	
	800	38	4900	300	18	2050	1100	34	6900	120	✓	
LN INV DI 1200 P 54W 940 DA EL WT	OSRAM POT-DALI-DP 335-DAP MA MPCL	800	22	2990	200	12	1490	790	24	4200	129	✓
	800	28	3440	250	15	1750	850	25	5200	120	✓	
	800	38	4900	300	18	2050	1100	34	6900	120	✓	
LN INV DI 1200 P 54W 940 DA EL BK	OSRAM POT-DALI-DP 335-DAP MA MPCL	800	22	2990	200	12	1490	790	24	4200	129	✓
	800	28	3440	250	15	1750	850	25	5200	120	✓	
	800	38	4900	300	18	2050	1100	34	6900	120	✓	

	BATTERY® In	TEST¹¹	Icon	MAINTENANCE® / NON-MAINTENANCE®
LINEAR INDILED® BK	LfUfCh - 3h	automatic¹¹	E3	400
LINEAR INDILED® WT	LfUfCh - 3h	automatic¹¹	E3	440

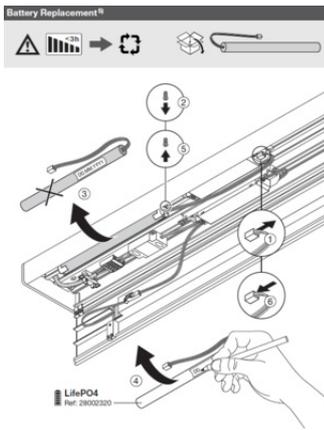
Testing Instructions¹¹⁾

Luminaire Status¹⁵⁾

Control LED ¹³⁾	Control LED ¹³⁾
Normal ¹⁶⁾	Green ¹⁶⁾ OFF
Emergency ¹⁶⁾	Green ¹⁶⁾ (0.1s, 1s, 1s...)
Testing ¹⁶⁾	Green ¹⁶⁾ (0.1s, 0.1s, 0.1s...)
Load failure ¹⁶⁾	Red ¹⁶⁾ (0.1s, 1s, 1s...)
Battery failure ¹⁶⁾	Red ¹⁶⁾ (0.1s, 1s, 1s...)
Changing failure ¹⁶⁾	Red ¹⁶⁾ (0.1s, 0.1s, 0.1s...)

Test¹⁷⁾

Initialization ¹⁸⁾ ≥ 40h Normal	Automatic ¹⁸⁾
Daily check of Control LED ¹⁸⁾	Green ¹⁸⁾
Monthly/Weekly functional test ¹⁸⁾ (EN 50172)	Automatic test once every 7 days ¹⁸⁾
Yearly duration test ¹⁸⁾ (EN 50172)	Automatic test once every 52 weeks ¹⁸⁾



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.