PRODUCT DATASHEET
LN INV DI 1500 P 69W 930 DA EL WT

LINEAR INDIVILED DIRECT/INDIRECT 1500 DALI EMERGENCY | Pendant 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 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

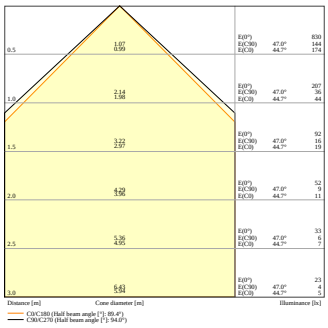
Electrical data

Nominal wattage	69 W / 63 W / 60 W / 54 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	308mA / 285mA / 270mA / 240 mA
Inrush current	16 A
Inrush current time T_{h50}	200 µs
Max. number of luminaires per miniature circuit breaker B16	23
Max. number of luminaires per miniature circuit breaker C10	20
Max. number of luminaires per miniature circuit breaker C16	32
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

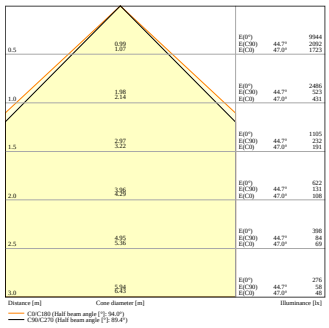
Photometrical data

Luminous flux	8150 lm / 7650 lm / 7300 lm / 6650 lm
Luminous efficacy	118 lm/W / 121 lm/W / 122 lm/W / 123 lm/W
Color temperature	3000 K
Light color (designation)	Warm 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

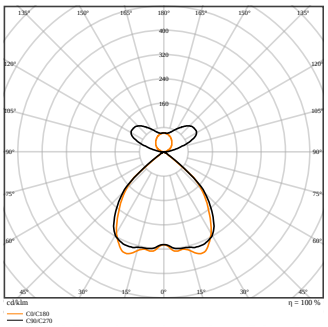
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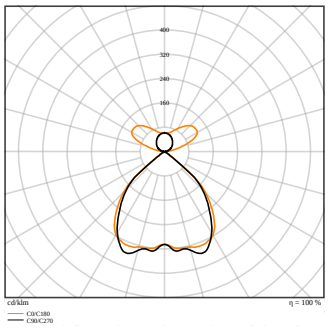
LN INV DI 1500 P 69W 930 DAVR EM WT



LN INV DI 1500 P 69W 930 DA EL WT 1400mA



LN INV DI 1500 P 69W 930 DAVR EM WT



LN INV DI 1500 P 69W 930 DA EL WT 1400mA

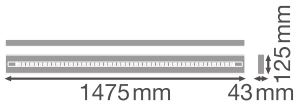
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
69 W	3000 K	8150 lm	118 lm/W
63 W	3000 K	7650 lm	121 lm/W
60 W	3000 K	7300 lm	122 lm/W
54 W	3000 K	6650 lm	123 lm/W

Dimensions & Weight

Length	1475.00 mm
Width	125.00 mm
Height	43.00 mm
Product weight	4400.00 g

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LN INV 1500 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	1400mA / 1300mA / 1200mA / 1100 mA
Output ripple current (100 Hz)	≤ 3 %
Recommended control gear	OSRAM type ETI DALI 75/220-240/1A4 LT2

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

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 1339x29 60 52W 930 S90U19 GY	4099854284830
	LISOEV 1465x31 28 23W 930 S130	4099854285059

Components for light control

Components Light Control

Product image	Product name	EAN
	MANUAL CONTROL UNIT GROUP DALI-2 TW	4099854748691

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Product image	Product name	EAN
	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
	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

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Product image	Product name	EAN
	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
	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

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Product image	Product name	EAN
	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
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	LN IND DALI EM
PDF	Declarations of conformity	LINEAR INDIVILED
PDF	Declarations of conformity UKCA	LINEAR INDIVILED
PDF	EU Data Act	DALI LED Driver and Luminaires

	Photometric and lighting design files	Document name
IES	IES file (IES)	LN INV DI 1500 P 69W 930 DAVR EM WT
IES	IES file (IES)	LN INV DI 1500 P 69W 930 DA EL WT 1400mA

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	Photometric and lighting design files	Document name
	LDT file (Eulumdat)	LN INV DI 1500 P 69W 930 DAVR EM WT
	LDT file (Eulumdat)	LN INV DI 1500 P 69W 930 DA EL WT 1400mA
	UGR file (UGR table)	LN INV DI 1500 P 69W 930 DAVR EM WT
	UGR file (UGR table)	LN INV DI 1500 P 69W 930 DA EL WT 1400mA
	Light distribution curve type cone	LN INV DI 1500 P 69W 930 DAVR EM WT
	Light distribution curve type cone	LN INV DI 1500 P 69W 930 DA EL WT 1400mA
	Light distribution curve type polar	LN INV DI 1500 P 69W 930 DAVR EM WT
	Light distribution curve type polar	LN INV DI 1500 P 69W 930 DA EL WT 1400mA

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

	Tender texts	Document name
	Tender documents	LINEAR INDIVILED DIRECT INDIRECT 1500 DALI EMERGENCY 1500 P 69W 930 DA EL WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854297830	Folding box 1	177 mm x 1,530 mm x 102 mm	4860.00 g	27.62 dm^3
4099854297847	Shipping box 2	1,550 mm x 197 mm x 224 mm	11320.00 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 DI 1500 P 69W 930 DA EL WT	OSRAM ETI DALI 75/ 220-240/ 1A4 LT2	800	36	4300	250	18	2350	1100	54	6950	123	-	✓
		900	40	4750	300	20	2560	1200	60	7300	122	-	✓
		975	42	4950	300	21	2730	1300	63	7650	121	-	✓
		1050	46	5300	350	23	2950	1400	69	8150	118	-	Preset
LN INV DI 1500 P 69W 930 DA EL BK	OSRAM ETI DALI 75/ 220-240/ 1A4 LT2	800	36	4200	250	18	2350	1100	54	6550	121	-	✓
		900	40	4600	300	20	2560	1200	60	7150	119	-	✓
		975	42	4800	300	21	2730	1300	63	7500	119	-	✓
		1050	46	5150	350	23	2950	1400	69	8000	116	-	Preset
LN INV DI 1500 P 69W 940 DA EL WT	OSRAM ETI DALI 75/ 220-240/ 1A4 LT2	800	36	4600	250	18	2450	1100	54	7050	131	-	✓
		900	40	4950	300	20	2660	1200	60	7600	127	-	✓
		975	42	5300	300	21	2860	1300	63	8150	129	-	✓
		1050	46	5700	350	23	3000	1400	69	8700	126	-	Preset
LN INV DI 1500 P 69W 940 DA EL BK	OSRAM ETI DALI 75/ 220-240/ 1A4 LT2	800	36	4500	250	18	2450	1100	54	6950	129	-	✓
		900	40	4900	300	20	2660	1200	60	7450	124	-	✓
		975	42	5150	300	21	2860	1300	63	8000	127	-	✓
		1050	46	5550	350	23	3000	1400	69	8550	124	-	Preset

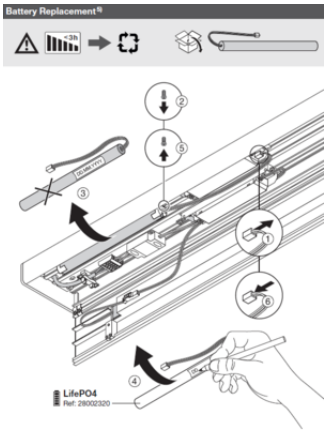
	BATTERY[4] (h)	TEST[7]	W	lm	MAINTAINED[8] / NON-MAINTAINED[9]
LINEAR INDIVILED® SK	LiFePO4 - 3h	automatic[10]	2.3	400	Maintained/Non-maintained
LINEAR INDIVILED® WT	LiFePO4 - 3h	automatic[10]	2.3	440	Maintained/Non-maintained

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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