PRODUCT DATASHEET
LN INV DI 1200 P 54W 940 DAVR SN WT

LINEAR INDIVILED DIRECT/INDIRECT 1200 DALI SENSOR | Pendant luminaire for single or light line office application with CRI90 and DALI sensor, 1200 mm



Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Offices, education, public buildings
- Single and continuous line configuration
- Direct and indirect lighting

Product benefits

- Easy upgradeability of light source and driver (EVERLOOP design)
- Homogenous light distribution and reduced glare (UGR ≤ 19) thanks to IndiviLED® optics
- Pendant luminaires with direct light emission (70%) and indirect light emission (30%)
- High performance with CRI90 and up to 137 lm/W
- High color consistency with SDCM 3
- Easy installation
- Low flicker light thanks to special electronic control gear
- Suitable for battery emergency installations acc. to EN 60598-2-22
- Multiple mounting options thanks to different accessories

Product features

- Minimalistic LEDVANCE SCALE design in extruded aluminum housing, available in white and black color
- Includes EVERLOOP: Convenient replacement of light source and LED driver
- PIR-Sensor with leader-follower function
- Combined daylight and motion detection
- Individual adjustment of the parameters with configuration software or remote control
- Linkable into seamless light line with accessories (surface or pendant mounting)



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- Pendant mounting with suspension kit (to be ordered separetely)
- Glow Wire Test according to IEC 60695-2-12: 850 °C
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm^2
- Lifetime (L80/B10): 70,000 h (at 25 °C)
- Multi Lumen function: programmable DALI-2 driver

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TECHNICAL DATA

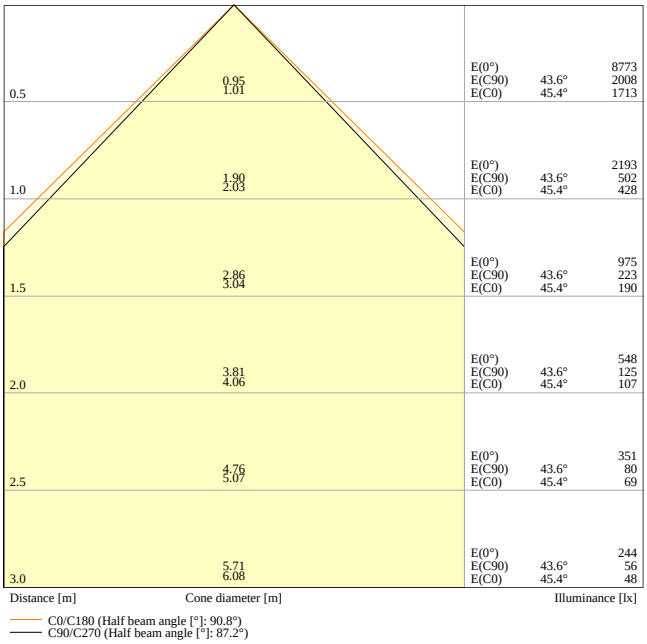
Electrical data

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
Operating mode	Integrated LED driver
Dimming interface	DALI-2 / IoT

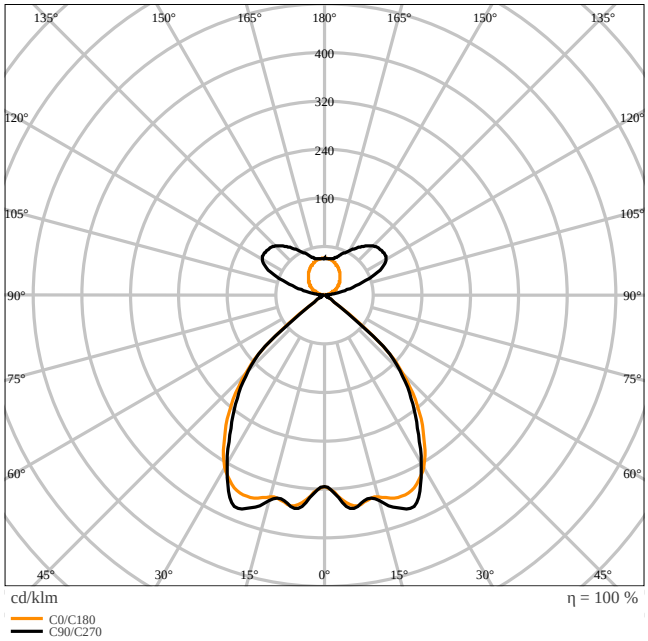
Photometrical data

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
Photobiological safety group acc. to EN62471	RG0
Beam angle	90 ° + 130 °
UGR	< 19

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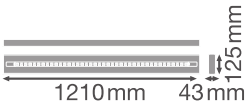
Adjustable attributes

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	3590.00 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	-20…+50 °C
Temperature range at storage	-20…+80 °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-2
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)	≤ 5 %
Recommended control gear	OSRAM type OTI DALI 50/220-240/1A4 NFC L

Sensor

Type of sensor	Motion / Light
Sensor technology	Passive infrared/Photocell
Sensor detection angle	80 °
Sensor controlled switching time	10 s … 30 min
Detection range of motion sensor	1.7…4 m

Certificates & Standards

Standards	CE / CB / ENEC / TÜV SÜD / UKCA / EAC / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00073-V01.01-EN
Replaceable light source (EPREL)	Only by an expert

Additional product data

Added function	EVERLOOP / Programmable Multi Lumen

Required Accessories and Components

Product image	Product name	EAN
	LN INV SUSPENSION KIT WT	4099854215537

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Product image	Product name	EAN
	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

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

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
PDF	User instruction / safety instructions	LN INV D DI
PDF	Legal information	Safety Insert G11205497
PDF	Legal information	Legal Insert G11235610
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	LN INV D DI
PDF	Declarations of conformity	LN INV
PDF	Declarations of conformity UKCA	LN INV
PDF	Certificates	LN INV
PDF	EU Data Act	DALI LED Driver and Luminaires

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	Documents and certificates	Document name
PDF	EPD	EPD_EN_LINEAR INDIVILED DALI SEN
PDF	EPD	EPD_FR_LINEAR INDIVILED DALI SEN

	Photometric and lighting design files	Document name
IES	IES file (IES)	LN INV DI 1200 P 54W 940 DAVR SN WT
LDT	LDT file (Eulumdat)	LN INV DI 1200 P 54W 940 DAVR SN WT
ULD	ULD file (DIALux)	LN INV DI 1200 P 54W 940 DAVR SN WT
ROLF	ROLF file (RELUX)	LN INV DI 1200 P 54W 940 DAVR SNWT
	UGR file (UGR table)	LN INV DI 1200 P 54W 940 DAVR SN WT
	Light distribution curve type cone	LN INV DI 1200 P 54W 940 DAVR SN WT
	Light distribution curve type polar	LN INV DI 1200 P 54W 940 DAVR WT

	CAD/BIM files	Document name
RFA	BIM Revit 3D	Linear Indiviled G2
STEP	CAD STEP 3D	LN INV D I 1200 G2

	Tender texts	Document name
TXT	Tender documents	LINEAR INDIVILED DIRECT INDIRECT 1200 DALI SENSOR P 54W 940 DAVR SN WT-EN

LOGISTICAL DATA

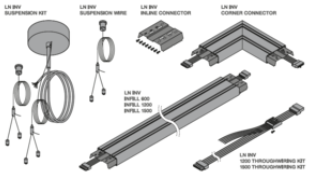
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854249495	Folding box 1	178 mm x 1,263 mm x 103 mm	4190.00 g	23.16 dm^3
4099854249501	Shipping box 2	1,297 mm x 197 mm x 224 mm	9780.00 g	57.23 dm^3

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.

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ADDITIONAL CATALOG INFORMATION

LINEAR IndiviLED® DIR/IND DALI SN WT	DRIVER	DIRECT			INDIRECT			Total				DALI magic
		mA	W	lm	mA	W	lm	mA	W	lm	lm/W	
LN INV DI 1200 P 54W 830 DA SN WT	OSRAM OTi DALI 50/ 220-240/ 1A4 NFC L	407	20	2900	233	12	1450	700	34	4350	128	NFC
		557	28	3450	285	15	1750	850	43	5200	121	NFC
		634	32	3800	318	16	1900	950	48	5700	120	NFC
		734	36	4300	366	18	2200	1100	54	6500	120	Preset
LN INV DI 1200 P 54W 940 DA SN WT	OSRAM OTi DALI 50/ 220-240/ 1A4 NFC L	457	22	3100	233	12	1550	700	34	4650	137	NFC
		647	29	3750	285	15	1900	850	43	5650	132	NFC
		634	32	4000	318	16	2050	950	48	6050	126	NFC
		734	36	4600	366	18	2200	1100	54	6900	128	Preset
LN INV DI 1500 P 68W 830 DA SN WT	OSRAM ETi DALI 75/ 220-240/ 1A4 LT2	734	36	4300	366	18	2200	1100	54	6600	123	- DALI magic
		920	45	4750	400	20	2500	1350	63	7500	122	- DALI magic
		807	42	4950	433	21	2700	1550	63	7650	121	- DALI magic
		884	46	5300	466	23	2950	1450	69	8150	118	- Preset
LN INV DI 1500 P 68W 940 DA SN WT	OSRAM ETi DALI 75/ 220-240/ 1A4 LT2	734	36	4900	366	18	2400	1100	54	7000	121	- DALI magic
		920	45	4950	400	20	2650	1350	60	7600	127	- DALI magic
		807	47	5300	433	11	2950	1400	63	8100	129	- DALI magic
		884	46	5700	466	23	3050	1450	69	8700	126	- Preset



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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