PRODUCT DATASHEET
LN INV D 1500 P 52W 940 DAVR SN WT

LINEAR INDIVILED DIRECT 1500 DALI SENSOR | Surface mounted luminaire for single or light line office application with CRI90 and DALI sensor, 1500 mm



Areas of application

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

Product benefits

- 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
- IoT-ready luminaire with DALI-2 driver, suitable for VIVARES and other Light Management Systems
- Symmetric light distribution for various application areas
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- 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

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- Individual adjustment of the parameters with configuration software or remote control
- Linkable into seamless light line with accessories (surface or pendant mounting)
- 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

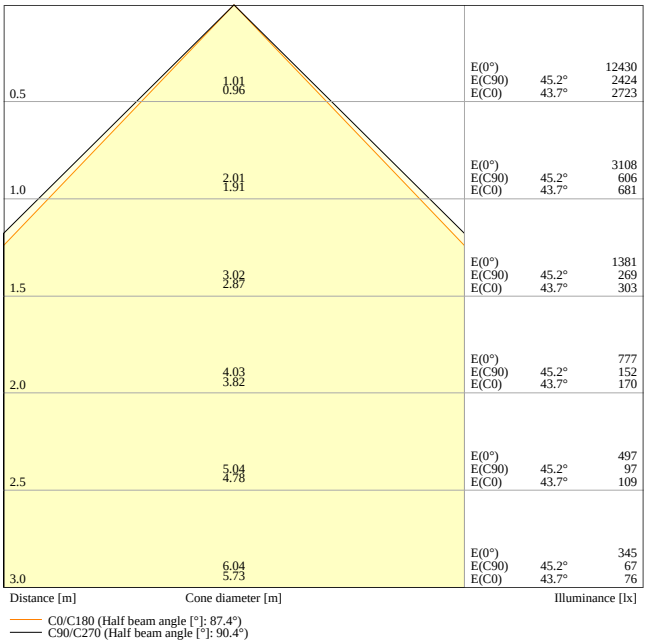
Electrical data

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

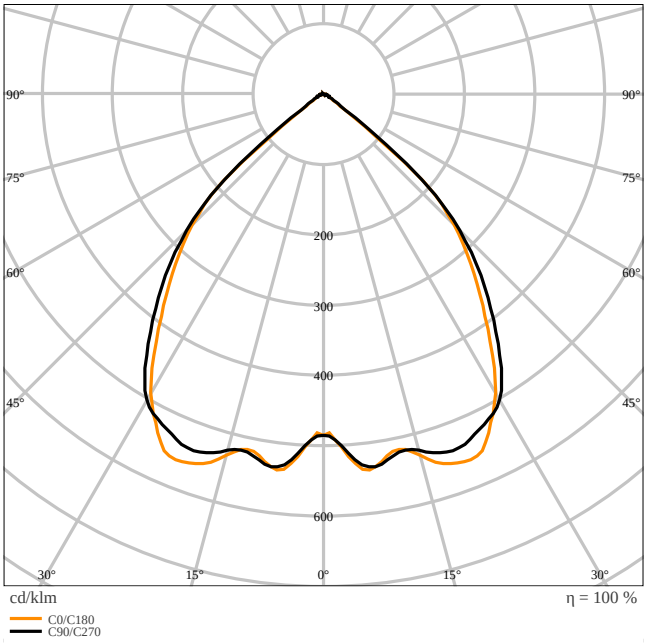
Photometrical data

Luminous flux	6400 lm / 6000 lm / 5850 lm / 5250 lm
Luminous efficacy	123 lm/W / 125 lm/W / 133 lm/W / 135 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 °
UGR	< 19

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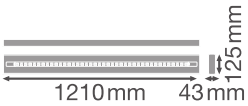
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
52 W	4000 K	6400 lm	123 lm/W
48 W	4000 K	6000 lm	125 lm/W
44 W	4000 K	5850 lm	133 lm/W
39 W	4000 K	5250 lm	135 lm/W

Dimensions & Weight

Length	1475.00 mm
Width	125.00 mm
Height	43.00 mm
Product weight	3870.00 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/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 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

Accessories Optional

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
	LN INV 1500 THROUGHWIRING KIT	4099854214806
	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
	MANUAL CONTROL UNIT SELECT DALI-2	4058075837485

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Product image	Product name	EAN
	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
	FLEX CONTROL UNIT DALI-2 TW	4058075843844

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Product image	Product name	EAN
	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
	REPEATER DALI-2 RAIL MOUNTING	4099854709111

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Product image	Product name	EAN
	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
PDF	EPD	EPD_EN_LINEAR INDIVILED DALI SEN
PDF	EPD	EPD_FR_LINEAR INDIVILED DALI SEN

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	Photometric and lighting design files	Document name
	IES file (IES)	LN INV D 1500 P 52W 940 DAVR SN WT
	LDT file (Eulumdat)	LN INV D 1500 P 52W 940 DAVR SN WT
	ULD file (DIALux)	LN INV D 1500 P 52W 940 DAVR SN WT
	ROLF file (RELUX)	LN INV D 1500 P 52W 940 DAVR SN WT
	UGR file (UGR table)	LN INV D 1500 P 52W 940 DAVR SN WT
	Light distribution curve type cone	LN INV D 1500 P 52W 940 DAVR SN WT
	Light distribution curve type polar	LN INV D 1500 P 52W 940 DAVR WT

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

	Tender texts	Document name
	Tender documents	LINEAR INDIVILED DIRECT 1500 DALI SENSOR P 52W 940 DAVR SN WT-EN

LOGISTICAL DATA

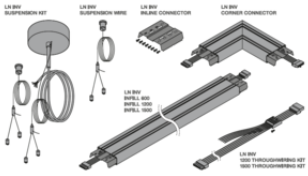
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854249716	Folding box 1	177 mm x 1,530 mm x 102 mm	4570.00 g	27.62 dm^3
4099854249723	Shipping box 2	1,550 mm x 197 mm x 224 mm	10740.00 g	68.40 dm^3

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

LINEAR IndiviLED® DIRECT DALI SN WT	DRIVER	mA	W	lm	lm/W	
LN INV D 1200 P 40W 930 DA SN WT	OSRAM OTi DALI 50/ 220-240/ 1A4 NFC L	500	25	3100	124	NFC
		600	30	3700	123	NFC
		700	34	4250	125	NFC
		800	40	4850	120	Preset
LN INV D 1200 P 40W 940 DA SN WT	OSRAM OTi DALI 50/ 220-240/ 1A4 NFC L	500	25	3250	130	NFC
		600	30	3850	128	NFC
		700	34	4450	131	NFC
		800	40	5050	126	Preset
LN INV D 1500 P 52W 930 DA SN WT	OSRAM OTi DALI 50/ 220-240/ 1A4 NFC L	800	39	4850	124	NFC
		900	44	5400	123	NFC
		975	48	5650	117	NFC
		1050	52	6100	117	Preset
LN INV D 1500 P 52W 940 DA SN WT	OSRAM OTi DALI 50/ 220-240/ 1A4 NFC L	800	39	5250	135	NFC
		900	44	5850	133	NFC
		975	48	6000	125	NFC
		1050	52	6450	123	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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