PRODUCT DATASHEET
LN INV DI 1200 P 54W 940 DAVR BK

LINEAR INDIVILED DIRECT/INDIRECT 1200 DALI | Pendant luminaire for single or light line office application with CRI90 and DALI-2 IoT technology, 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
- IoT-ready luminaire with DALI-2 driver, suitable for VIVARES and other Light Management Systems
- 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
- Linkable into seamless light line with accessories (surface or pendant mounting)
- Pendant mounting with suspension kit (to be ordered separetely)



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- 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

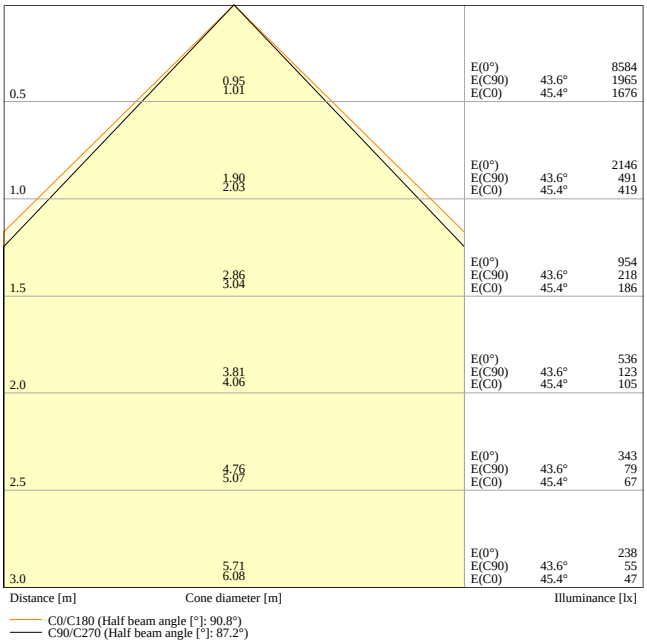
Electrical data

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

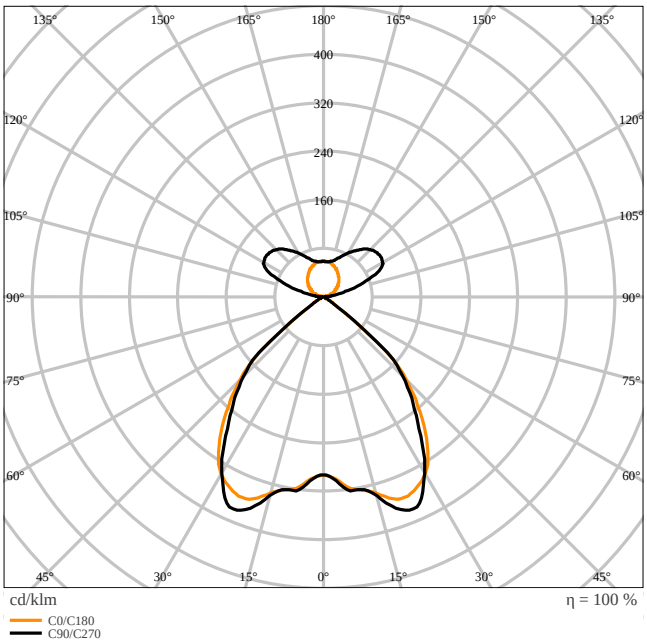
Photometrical data

Luminous flux	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	≥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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LN INV DI 1200 P 54W 940 DAVR BK 1100mA



LN INV DI 1200 P 54W 930 DAVR WT

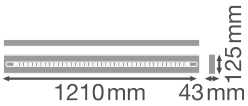
Adjustable attributes

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	3500.00 g

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LN INV 1200 P

Materials & Colors

Product color	Black
Housing color	Black
RAL Color (most similar)	RAL 9005
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	1100mA / 950mA / 850mA / 700 mA
Output ripple current (100 Hz)	≤ 5 %
Recommended control gear	OSRAM type OTI DALI 50/220-240/1A4 NFC L

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-00026-V01.01-EN
Replaceable light source (EPREL)	Only by an expert

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 BK	4099854297069
	LN INV SUSPENSION WIRE	4099854323980

Accessories Optional

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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

Upgrade and replacement components

Components Light Source

Product image	Product name	EAN
	LISOEV 1074x29 49 40W 940 S90U19 BK	4099854652080
	LISOEV 1200x31 23 18W 940 S130	4099854284960

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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
	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

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Product image	Product name	EAN
	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
	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

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Product image	Product name	EAN
	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.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LN INV D PS
PDF	Legal information	Safety Insert G11205497
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Legal Insert G11235610
PDF	Legal information	LN INV D DI
PDF	Declarations of conformity	LN INV
PDF	Declarations of conformity UKCA	LN INV
PDF	Certificates	LN INV

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	Documents and certificates	Document name
PDF	EU Data Act	DALI LED Driver and Luminaires
PDF	EPD	EPD EN LINEAR INDIVILED DIRECT INDIRECT

	Photometric and lighting design files	Document name
IES	IES file (IES)	LN INV DI 1200 P 54W 940 DAVR BK 1100mA
LDT	LDT file (Eulumdat)	LN INV DI 1200 P 54W 940 DAVR BK 1100mA
ULD	ULD file (DIALux)	LN INV DI 1200 P 54W 940 DAVR BK
ROLF	ROLF file (RELUX)	LN INV DI 1200 P 54W 940 DAVR BK
	UGR file (UGR table)	LN INV DI 1200 P 54W 940 DAVR BK 1100mA
	Light distribution curve type cone	LN INV DI 1200 P 54W 940 DAVR BK 1100mA
	Light distribution curve type polar	LN INV DI 1200 P 54W 930 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 P 54W 940 DAVR BK-EN

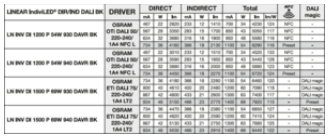
LOGISTICAL DATA

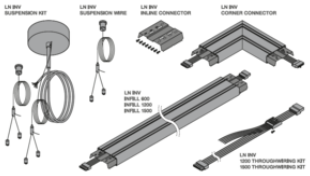
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854296864	Folding box 1	178 mm x 1,263 mm x 103 mm	4100.00 g	23.16 dm^3
4099854296871	Shipping box 2	1,297 mm x 197 mm x 224 mm	9600.00 g	57.23 dm^3

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





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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