

PRODUCT DATASHEET

LN INV D 1200 P 40W 940 DAVR BK

LINEAR INDIVILED DIRECT 1200 DALI | Surface mounted 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 lighting

Product benefits

- 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 131 lm/W
- IoT-ready luminaire with DALI-2 driver, suitable for VIVARES and other Light Management Systems
- Symmetric and asymmetric 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
- Linkable into seamless light line with accessories (surface or pendant mounting)
- Pendant mounting with suspension kit (to be ordered separately)
- Glow Wire Test according to IEC 60695-2-12: 850 °C
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm²
- Lifetime (L80/B10): 70,000 h (at 25 °C)

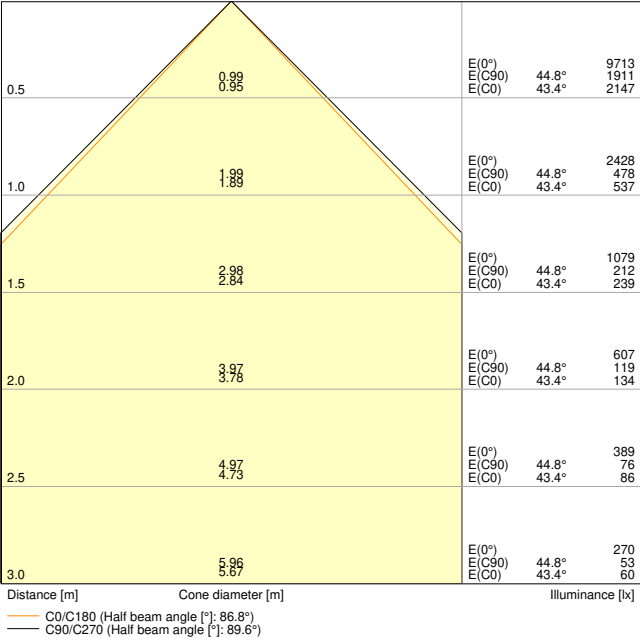
TECHNICAL DATA

Electrical data

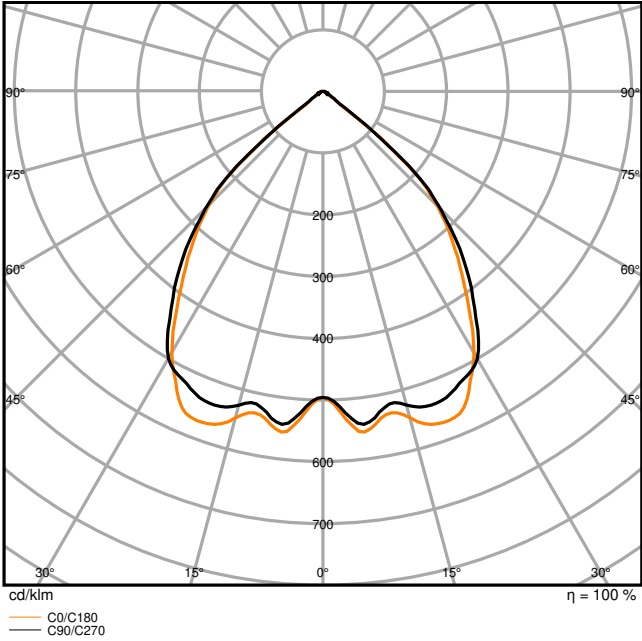
Nominal wattage	40 W / 36 W / 30 W / 25 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	177...160...140...120 mA
Inrush current	9.92 A
Inrush current time T_{h50}	360 μ s
Max. number of luminaires per miniature circuit breaker B16	20
Max. number of luminaires per miniature circuit breaker C10	20
Max. number of luminaires per miniature circuit breaker C16	32
Power factor λ	≥ 0.90
Total harmonic distortion	≤ 20 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI-2 / IoT

Photometrical data

Luminous flux	3150 lm / 3750 lm / 4300 lm / 4900 lm
Luminous efficacy	126 lm/W / 125 lm/W / 123 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 90
Standard deviation of color matching	3 sdc _m
Low flicker	Yes
Flickering metric (Pst LM)	≤ 1
Stroboscope effect metric (SVM)	≤ 0.4
Photobiological safety group acc. to EN62778	RG0
Photobiological safety group acc. to EN62471	RG0
Beam angle	90 °
UGR	< 19



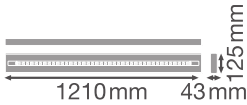
LN INV D 1200 P 40W 940 DAVR BK 800mA



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Dimensions & Weight

Length	1210.00 mm
Width	125.00 mm
Height	43.00 mm
Product weight	3260.00 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	-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	DALI2
Mounting type	Suspended/Surface
Mounting location	Ceiling
Application environment	Indoor
Adjustable	No
With light source	Yes

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	1400 mA
ECG - Output ripple current	≤ 3 %
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-00027-V01.01-EN
Replaceable light source (EPREL)	By the end consumer

Additional product data

Added function	EVERLOOP / VIVARES / Programmable Multi Lumen
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Accessories Optional

Product image	Product name	EAN
		4099854297083
	LN INV SUSPENSION KIT BK	4099854297069
	LN INV INFILL 600 BK	4099854297045
	LN INV INFILL 1200 BK	4099854297007
	LN INV INFILL 1500 BK	4099854297021
	LN INV SUSPENSION WIRE	4099854215551
	LN INV 1200 THROUGHWIRING KIT	4099854214820

Product image	Product name	EAN
	LN INV INLINE CONNECTOR	4099854215612

EQUIPMENT / ACCESSORIES

- Suspension kit available
- 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.
- If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by a qualified person in order to avoid a hazard.
- 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 PS
 Legal information	Legal Insert LN INV P DA
 Legal information	LSI LN INV DAVR WT
 Declarations of conformity	LN INV
 Declarations of conformity UKCA	LN INV
 Certificates	LN INV

Photometric and lighting design files	Document name
 IES file (IES)	LN INV D 1200 P 40W 940 DAVR BK 800mA
 LDT file (Eulumdat)	LN INV D 1200 P 40W 940 DAVR BK 800mA

Photometric and lighting design files		Document name
	ULD file (DIALux)	LN INV D 1200 P 40W 940 DAVR BK
	ROLF file (RELUX)	LN INV D 1200 P 40W 940 DAVR BK
	UGR file (UGR table)	LN INV D 1200 P 40W 940 DAVR BK 800mA
	Light distribution curve type cone	LN INV D 1200 P 40W 940 DAVR BK 800mA
	Light distribution curve type polar	LN INV D 1200 P 40W 940 DAVR BK 800mA
CAD/BIM files		Document name
	BIM Revit 3D	Linear Indiviled G2
	CAD STEP 3D	LN INV D 1200 G2
Tender texts		Document name
	Tender documents	LINEAR INDIVILED DIRECT 1200 DALI P 40W 940 DAVR BK-EN

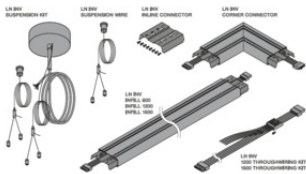
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854296727	Folding box 1	178 mm x 1,263 mm x 103 mm	3860.00 g	23.16 dm³
4099854296734	Shipping box 2	1,297 mm x 197 mm x 224 mm	9120.00 g	57.23 dm³

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 InduLED® DIRECT DALI BK	DRIVER	mA	W	lm	lm/W	°C
LN INV D 1200 P 40W 930 DAVR BK	OSRAM	500	25	3015	120	MPC
	DTI DALI RV	600	30	3600	120	MPC
	335-340	700	34	4125	121	MPC
	144 NPL L	800	40	4800	120	Phosphor
LN INV D 1200 P 40W 940 DAVR BK	OSRAM	500	25	3100	124	MPC
	DTI DALI RV	600	30	3700	123	MPC
	335-340	700	34	4020	127	MPC
	144 NPL L	800	40	4800	120	Phosphor
LN INV D 1500 P 52W 930 DAVR BK	OSRAM	800	39	4710	121	MPC
	DTI DALI RV	900	44	5040	119	MPC
	335-340	975	48	5445	113	MPC
	144 NPL L	1000	52	5900	113	Phosphor
LN INV D 1500 P 52W 940 DAVR BK	OSRAM	800	39	5100	127	MPC
	DTI DALI RV	900	44	5400	120	MPC
	335-340	975	48	5805	121	MPC
	144 NPL L	1000	52	6210	118	Phosphor



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.