

PRODUCT DATASHEET

LN INDV D 1500 48 W 4000 K ZBVR

LINEAR IndiviLED® DIRECT Zigbee GEN 1 | Surface mounted luminaire for single luminaire or light line application with Zigbee 3.0 technology



Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Offices, schools
- General indoor illumination
- Corridors, entrance areas
- Seamless linear lighting
- Shop lighting

PERFOR-
MANCE
CLASS

Product benefits

- Suitable luminaire for VIVARES and other Zigbee 3.0 Light Management Systems
- Homogenous light distribution and reduced glare thanks to the IndiviLED® optics
- Multiple mounting options
- The product family offers full lighting solution for different applications
- Energy savings of up to 50 % compared to T5 batten luminaires
- Further variants additionally available with DALI ECG, emergency lighting function according to IEC 60598-2-22 or through wiring
- Robust structure with IK06
- Low flicker light thanks to special electronic control gear
- 5 years guarantee

Product features



- IoT-ready luminaire with Zigbee 3.0 technology
- Each LED with individual lens and reflector for UGR < 16 and homogenous light distribution
- Pendant mounting with suspension kit
- Linkable into seamless light line with line connection adapter (surface or pendant mounting)
- Available with length of 1200 or 1500 mm
- Luminous flux up to 5700 lm
- Luminous efficacy: up to 125 lm/W
- Initial color consistency: 3 SDCM
- Glow Wire Test according to IEC 60695-2-12: 850 °C
- Versions available with CRI 90
- Lifetime (L70/B50): 60,000 h (at 25 °C)

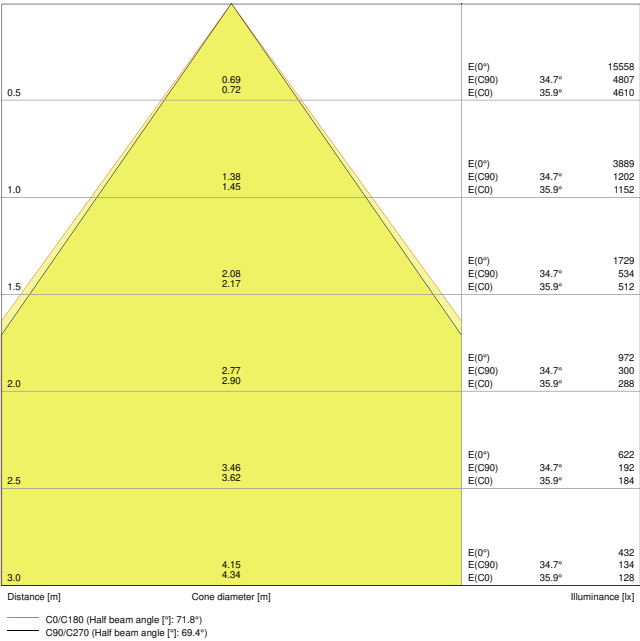
TECHNICAL DATA

Electrical data

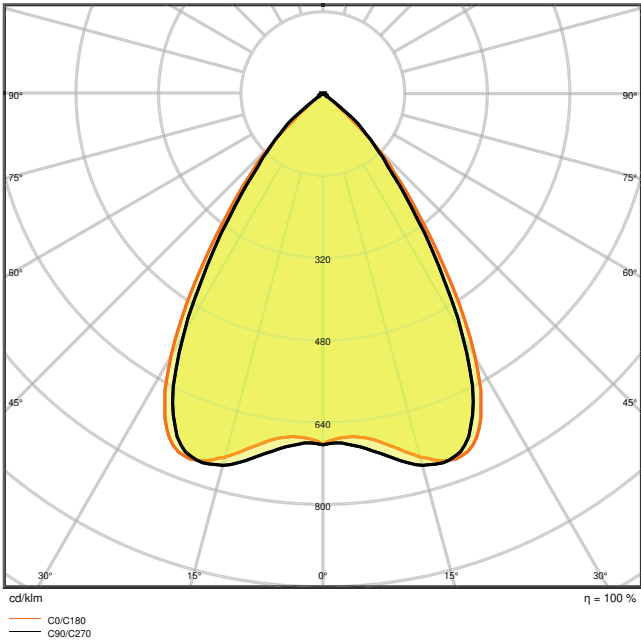
Nominal wattage	48.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	290 mA
Inrush current	30 A
Inrush current time T_{h50}	200 μ s
Max. number of luminaires per miniature circuit breaker B16	11
Max. number of luminaires per miniature circuit breaker C10	10
Max. number of luminaires per miniature circuit breaker C16	16
Power factor λ	≥ 0.90
Total harmonic distortion	$\leq 10 \%$
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	Zigbee 3.0

Photometrical data

Luminous flux	5700 lm
Luminous efficacy	120 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	-
Stroboscope effect metric (SVM)	-
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG0
Beam angle	70 °
UGR	< 16



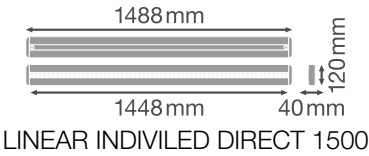
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Dimensions & Weight

Length	1488.00 mm
Width	120.00 mm
Height	40.00 mm
Product weight	3200.00 g



Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Aluminum
Cover material	Aluminium

Light emitting surface material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	850 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-25...+50 °C
Type of connection	Screwless terminal
Type of protection	IP20
Protection class IK (shock resistance)	IK06
Dimmable	Yes
Type of dimming	ZIGBEE
IoT ready	Support of DALI data type PART 251, 252, 253 ¹⁾
Mounting type	Suspended/Surface
Mounting location	Ceiling
Application environment	Indoor
With light source	Yes
Replaceable light source	No

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	60000 h ¹⁾
Lifespan L80/B10 at 25 °C	50000 h ¹⁾
Lifespan L80/B50 at 25 °C	50000 h
Lifespan L90/B10 at 25 °C	35000 h
Number of switching cycles	100000

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	1200 mA
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Certificates & Standards

Standards	CE / CB / ENEC / EAC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

EQUIPMENT / ACCESSORIES

- Ceiling connection box available
- Suspension kit available
- Line connection adapter available
- Through-wiring cable kit available

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI_Linear_IndiviLED_D
	Extended installation guide	Quick Installation Guide Vlvares Zigbee
	Legal information	LSI LINEAR IndiviLED DIRECT ZBVR
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	LN INDV D ZBVR
Photometric and lighting design files		Document name
	IES file (IES)	LN INDV D 1500 48W4000K ZBVR
	LDT file (Eulumdat)	LN INDV D 1500 48W4000K ZBVR
	ULD file (DIALux)	LN INDV D 1500 48W-4000K
	ROLF file (RELUX)	LN INDV D 1500
	UGR file (UGR table)	LN INDV D 1500 48W4000K ZBVR
	Light distribution curve type cone	LN INDV D 1500 48W4000K ZBVR
	Light distribution curve type polar	LN INDV D 1500 48W4000K ZBVR
CAD/BIM files		Document name
	BIM Revit 3D	Linear IndiviLED G1
	CAD STEP 3D	LN INDV 1500

Tender texts	Document name
 Tender documents	LINEAR IndiviLED DIRECT Zigbee 1500 48 W 4000 K ZBVR-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075521926	Folding box 1	132 mm x 1,624 mm x 52 mm	3542.00 g	11.15 dm³
4058075521933	Shipping box 4	1,641 mm x 207 mm x 169 mm	15298.00 g	57.41 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.

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.