PRODUCT DATASHEET
LN UO DA 1500 P 48W 83040 WT

LINEAR ULTRA OUTPUT DALI GEN 2 | DALI surface luminaire with high luminous efficacy up to 150 lm/W



Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Indoor applications
- Industrial and commercial halls
- Public areas
- Corridors, stairwells, basements

Product benefits

- Highly versatile due to selectable CCT (Multi Color) in 3000K and 4000K
- DALI based light management system integrable into building management systems
- Integrated DALI-2 driver for extended functionalities
- SMD LEDs are moisture-proof and corrosion-proof thanks to tri-proof coating
- Energy savings up to 70 % (compared to luminaires that use fluorescent lamps)
- Robust structure with IK08
- Easy installation and versatile application

Product features

- DALI-2 certified
- DALI/Touch DIM® control signal
- Three-proof coating to improve the protection of the SMD LEDs
- Luminous efficacy: up to 150 lm/W
- Robust metal housing and PC diffuser

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– Through wiring possible

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TECHNICAL DATA

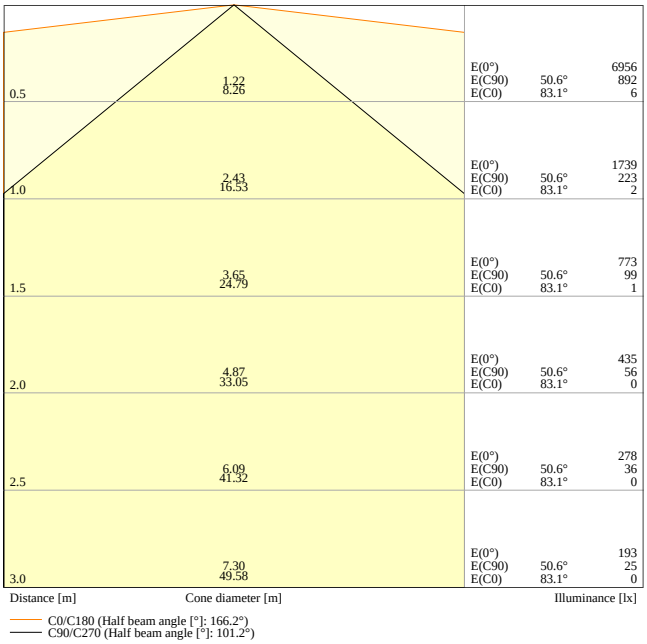
Electrical data

Nominal wattage	48.00 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	210 mA
Inrush current	17 A
Inrush current time T_{h50}	250 µs
Max. number of luminaires per miniature circuit breaker B16	15
Max. number of luminaires per miniature circuit breaker C10	14
Max. number of luminaires per miniature circuit breaker C16	23
Power factor λ	> 0.90
Maximum total harmonic distortion	< 15 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI-2

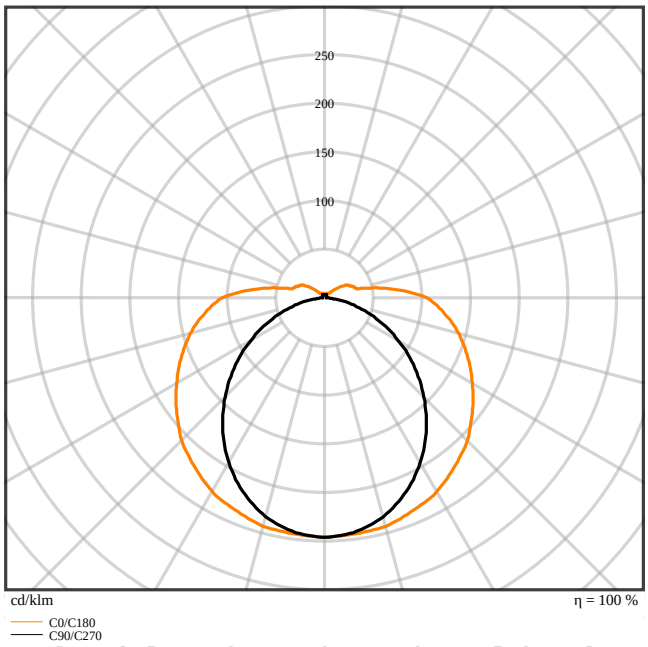
Photometrical data

Luminous flux	7200 lm / 6720 lm
Luminous efficacy	150 lm/W / 140 lm/W
Color temperature	3000 K / 4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
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	RG0
Beam angle	110 °

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LN UO DA 1500 P 48W CS WT



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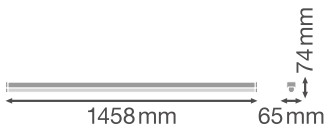
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
48 W	4000 K	7200 lm	150 lm/W
48 W	3000 K	6720 lm	140 lm/W

Dimensions & Weight

Length	1458.00 mm
Width	65.00 mm
Height	74.00 mm
Product weight	1500.00 g

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LN UO P 1500 48W CPS WT

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Steel
Cover material	Polycarbonate (PC)
Light emitting surface material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-20…+40 °C
Temperature range at storage	-40…+80 °C
Type of connection	Screwless terminal, 5-Pole (L, N, PE, DA+, DA-)
Type of protection	IP20
Protection class IK (shock resistance)	IK08
Dimmable	Yes
Type of dimming	DALI-2
Dimming range	1…100 %
Mounting type	Surface
Mounting location	Ceiling / Wall
Application environment	Indoor
Mechanically adjustable	No
With light source	Yes

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Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	88000 h [1)]
Lifespan L80/B10 at 25 °C	70000 h [1)]
Lifespan L80/B50 at 25 °C	70000 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	300 mA
Output ripple current (100 Hz)	< 5 %
Recommended control gear	LF-FSD065YA

Emergency lighting

Type of emergency operation test	None

Certificates & Standards

Standards	CE / CB / ENEC / UKCA / EAC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00055-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI COLOR / VIVARES

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

- Mounting screws and dowels included

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	LINEAR ULTRA OUTPUT DALI GEN2
PDF	Legal information	LISO Insert LINEAR ULTRA OUTPUT DALI
PDF	Legal information	Safety Insert G11205497
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Legal Insert G11231526
PDF	Declarations of conformity	LN UO DA
PDF	Declarations of conformity UKCA	LN UO DA
PDF	EU Data Act	DALI LED Driver and Luminaires
PDF	EPD	ENVIRONMENTAL PRODUCT DECLARATION LINEAR ULTRA OUTPUT GEN 2

	Photometric and lighting design files	Document name
IES	IES file (IES)	LN UO DA 1500 P 48W CS WT
LDT	LDT file (Eulumdat)	LN UO DA 1500 P 48W CS WT

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	Photometric and lighting design files	Document name
	ROLF file (RELUX)	LN UO DA 1500 P 48W 83040 WT
	UGR file (UGR table)	LN UO DA 1500 P 48W CS WT
	Light distribution curve type cone	LN UO DA 1500 P 48W CS WT
	Light distribution curve type polar	LN UO DA 1500 P 48W CS WT

	CAD/BIM files	Document name
	BIM Revit 3D	Linear Ultra Output G2

	Tender texts	Document name
	Tender documents	LINEAR ULTRA OUTPUT DALI GEN 2 DA 1500 P 48W CS WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075850415	Folding box 1	76 mm x 1,474 mm x 84 mm	1600.00 g	9.41 dm^3
4058075850422	Shipping box 6	1,479 mm x 245 mm x 192 mm	10350.00 g	69.57 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.

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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