PRODUCT DATASHEET
LN UO EL 1500 P 48W ML 83040 WT

LINEAR ULTRA OUTPUT EMERGENCY GEN 2 | Surface luminaire with high luminous flux and integrated emergency lighting function



Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- 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 and lumen steps (Multi Select)
- Seamless integration of luminaires with emergency lighting function into general lighting
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Convenient visualization of results of automatic test with an included control LED
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- Replacement of conventional T8 luminaires with up to 7200 lm
- Energy savings up to 70 % (compared to luminaires that use fluorescent lamps)
- Robust structure with IK08

Product features

- Certified according to European norms (EN 60598-1:2020; EN 60598-2-22:2021)
- Luminaire suitable for normal lighting and emergency lighting

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- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO4
- Luminous efficacy: up to 150 lm/W
- Robust metal housing and PC diffuser
- Wiring at back side of luminaire
- Through wiring possible

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TECHNICAL DATA

Electrical data

Nominal wattage	48 W / 40 W / 32 W / 24 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	228/196/166/135 mA
Inrush current	37 A
Inrush current time T_{h50}	120 µs
Max. number of luminaires per miniature circuit breaker B16	18
Max. number of luminaires per miniature circuit breaker C10	13
Max. number of luminaires per miniature circuit breaker C16	21
Power factor λ	> 0.90
Maximum total harmonic distortion	≤ 20 %
Protection class	I
Operating mode	Integrated LED driver

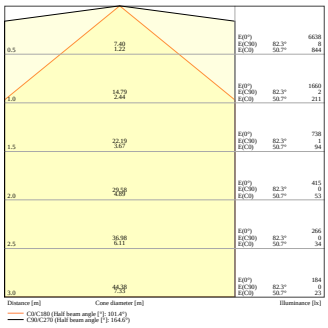
Photometrical data

Luminous flux	7200 lm / 6000 lm / 4800 lm / 3600 lm [1)]
Luminous efficacy	150 lm/W [2)]
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 °

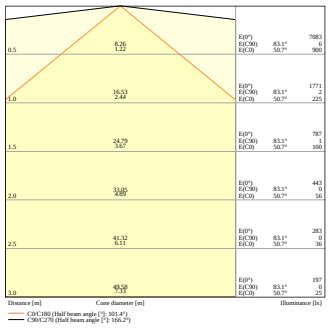
1) 6720lm / 5600lm / 4480lm / 3360lm @3000K

2) 140 lm/W @3000K

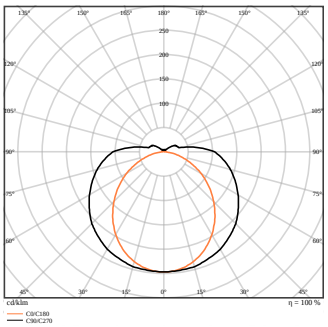
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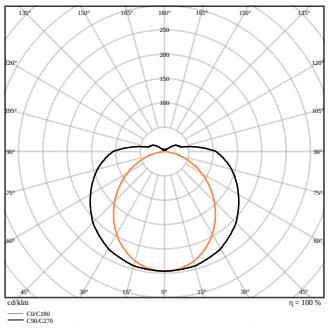
LN UO EL 1500 P 48W 3000K CPS WT LEDV



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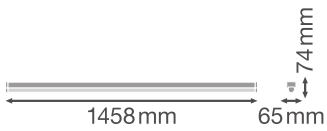
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
48 W	3000 K	6720 lm	140 lm/W
48 W	4000 K	7200 lm	150 lm/W
40 W	3000 K	5600 lm	140 lm/W
40 W	4000 K	6000 lm	150 lm/W
32 W	3000 K	4480 lm	140 lm/W
32 W	4000 K	4800 lm	150 lm/W
24 W	3000 K	3360 lm	140 lm/W
24 W	4000 K	3600 lm	150 lm/W

Dimensions & Weight

Length	1458.00 mm
Width	65.00 mm
Height	74.00 mm
Product weight	1660.00 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
Type of protection	IP20
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Surface
Mounting location	Ceiling / Wall
Application environment	Indoor
Mechanically adjustable	No
With light source	Yes
Replaceable light source	No

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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)

BATTERY

Type of Battery	LiFePO4
Battery size [GMS]	Others
Nominal voltage of battery	3.2 V
Nominal capacity of battery	6000 mAh
Battery charging time	24 h

Emergency lighting

Area of emergency application	Anti-panic lighting / Escape route lighting
Type of emergency light operation	Maintained / Non-maintained
Type of emergency operation test	Automatic
Wattage in maintained operation mode	48 W
Wattage in emergency operation mode	3,0 W
Luminous flux in emergency operation mode	450 lm
Battery life in emergency operation mode	3 h
Integrated test switch	No

Certificates & Standards

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

Additional product data

Added function	MULTI LUMEN / MULTI COLOR

EQUIPMENT / ACCESSORIES

– Mounting screws and dowels included

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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 UO EL
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	LISO Insert LINEAR ULTRA OUTPUT EMERGENCY
PDF	Legal information	Safety Insert G11205497
PDF	Legal information	LN OU
PDF	Declarations of conformity	LN UO EL
PDF	Declarations of conformity UKCA	LN UO EL

	Photometric and lighting design files	Document name
IES	IES file (IES)	LN UO EL 1500 P 48W 3000K CPS WT LEDV
IES	IES file (IES)	LN UO EL 1500 P 48W 4000K CPS WT LEDV
LDT	LDT file (Eulumdat)	LN UO EL 1500 P 48W 3000K CPS WT LEDV
LDT	LDT file (Eulumdat)	LN UO EL 1500 P 48W 4000K CPS WT LEDV
ULD	ULD file (DIALux)	LN UO EL 1500 P 48W CPS WT
ROLF	ROLF file (RELUX)	LN UO EL 1500 P 48W CPS WT
	UGR file (UGR table)	LN UO EL 1500 P 48W 3000K CPS WT LEDV
	UGR file (UGR table)	LN UO EL 1500 P 48W 4000K CPS WT LEDV

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	Photometric and lighting design files	Document name
	Light distribution curve type cone	LN UO EL 1500 P 48W 3000K CPS WT LEDV
	Light distribution curve type cone	LN UO EL 1500 P 48W 4000K CPS WT LEDV
	Light distribution curve type polar	LN UO EL 1500 P 48W 3000K CPS WT LEDV
	Light distribution curve type polar	LN UO EL 1500 P 48W 4000K CPS WT LEDV

	CAD/BIM files	Document name
	BIM Revit 3D	Linear Ultra Output EL
	CAD STEP 3D	LN UO G2 1500

	Tender texts	Document name
	Tender documents	LINEAR ULTRA OUTPUT EMERGENCY GEN 2 EL 1500 P 48W CPS WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075850477	Folding box 1	76 mm x 1,466 mm x 84 mm	1760.00 g	9.36 dm^3
4058075850484	Shipping box 6	1,479 mm x 245 mm x 192 mm	11310.00 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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