PRODUCT DATASHEET
TRUSYS UNIV P 50W 840 VW OP DALI

TRUSYS UNIVERSAL DALI | The DALI solution for refurbishment - universal fitting to existing trunking luminaire system

PERFOR-
MANCE
CLASS

Areas of application

- Direct replacement for luminaires with compact fluorescent lamps
- Industry halls, high rack warehouse, hardware stores
- Discounters, supermarkets

Product benefits

- The solution for refurbishment: universal fitting to existing trunking luminaire system
- Easy installation, no tools required for connection
- Energy saving and cost-effective
- Flexible application due to a range of different lumen packages and beam angles

Product features

- IoT-ready DALI-2 driver
- Beam angles: 120° (VW), 90° (W), 60° (N), 30° (VN)
- Click into place solution with smart click buttons
- Luminous efficacy: up to 180 lm/W
- Lifetime (L80/B10): up to 100,000 h (at 25 °C)
- Initial color consistency: ≤ 3 SDCM

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TECHNICAL DATA

Electrical data

Nominal wattage	50.00 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	230.000 mA
Inrush current	20.75 A
Inrush current time T_{h50}	266 µs
Max. number of luminaires per miniature circuit breaker B16	12
Max. number of luminaires per miniature circuit breaker C10	12
Max. number of luminaires per miniature circuit breaker C16	19
Power factor λ	≥0.90
Total harmonic distortion	< 15 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI-2 / IoT

Photometrical data

Luminous flux	8150 lm
Luminous efficacy	163 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)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	120 °

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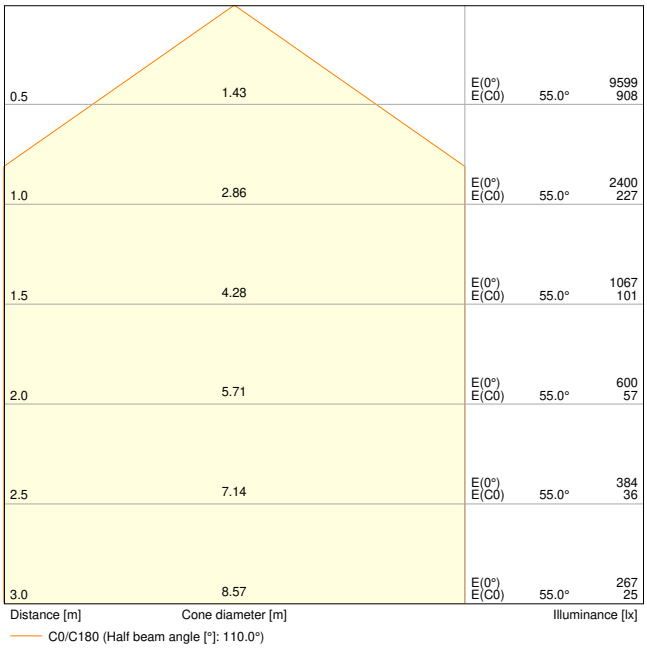

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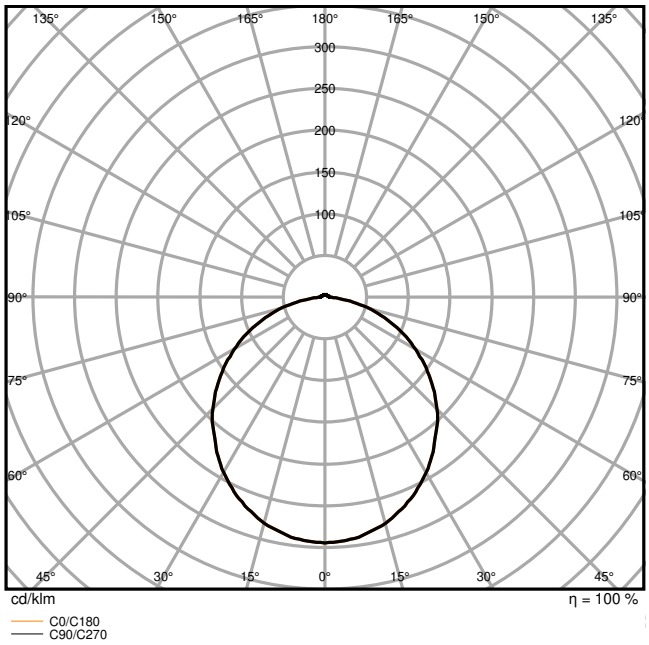
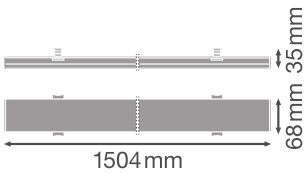


TRUSYS UNIV P 50W 840 VW OP DALI

Dimensions & Weight

Length	1504.00 mm
Width	68.00 mm
Height	35.00 mm
Product weight	1710.00 g



TRUSYS UNIVERSAL OPAL

Materials & Colors

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Product color	White
Housing color	White
Body material	Aluminum
Cover material	Polymethylmethacrylate (PMMA)
Light emitting surface material	Polymethylmethacrylate (PMMA)
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	Plug-In connection
Type of protection	IP20
Protection class IK (shock resistance)	IK02
Dimmable	Yes
Type of dimming	DALI2
Mounting type	Surface/Suspended
Mounting location	Mounting rail
Application environment	Indoor
Adjustable	No
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	120000 h [1)]
Lifespan L80/B10 at 25 °C	100000 h [1)]
Lifespan L90/B10 at 25 °C	54000 h
Number of switching cycles	50000

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	550 mA
ECG - Output ripple current	< 5 %

Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included

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Type of emergency operation test	None
Wattage in emergency operation mode	7.5 W
Luminous flux in emergency operation mode	1230 lm

Certificates & Standards

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

Additional product data

Product remark	Available from June 2025
Added function	VIVARES

EQUIPMENT / ACCESSORIES

- Various accessories available

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	UI TRUSYS UNIVERSAL
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Legal insert
PDF	Legal information	Safety Insert G11205497
PDF	Declarations of conformity	CE declaration TRUSYS UNIVERSAL
PDF	Declarations of conformity UKCA	UKCA declaration TRUSYS UNIVERSAL

	Photometric and lighting design files	Document name
IES	IES file (IES)	TRUSYS UNIV P 50W 840 VW OP DALI

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	Photometric and lighting design files	Document name
	LDT file (Eulumdat)	TRUSYS UNIV P 50W 840 VW OP DALI
	UGR file (UGR table)	TRUSYS UNIV P 50W 840 VW OP DALI
	Light distribution curve type cone	TRUSYS UNIV P 50W 840 VW OP DALI
	Light distribution curve type polar	TRUSYS UNIV P 50W 840 VW OP DALI

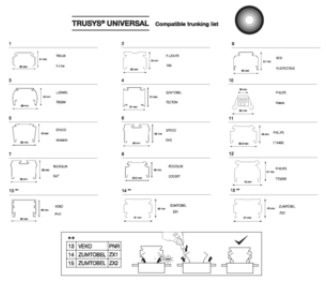
	CAD/BIM files	Document name
	BIM Revit 3D	TruSys Universal
	CAD STEP 3D	TRUSYS UNIV OP

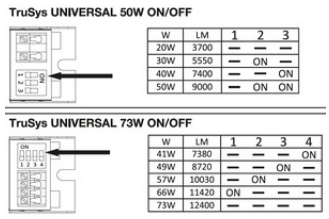
LOGISTICAL DATA

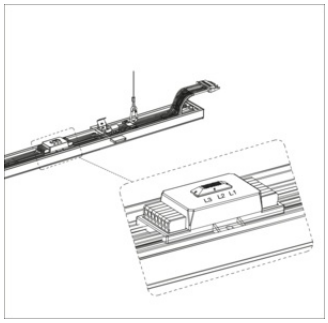
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854496820	Folding box 1	80 mm x 1,525 mm x 93 mm	2040.00 g	11.35 dm^3
4099854496837	Shipping box 4	1,545 mm x 335 mm x 122 mm	9640.00 g	63.14 dm^3

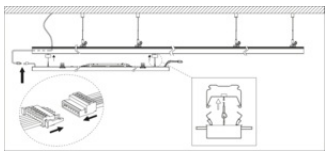
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

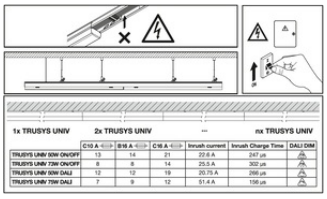
ADDITIONAL CATALOG INFORMATION











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References / Links

- For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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