PRODUCT DATASHEET
TRUSYS FLEX P 50W 840 N CL WT DALI

TruSys® FLEX NARROW | Luminaire inserts with narrow light distribution, up to 175 lm/W



PERFOR-
MANCE
CLASS

Areas of application

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

Product benefits

- Directed light distribution for high heights
- Easy installation, no tools required for connection
- Flexible application due to a range of different lumen packages and beam angles
- 5 years guarantee

Product features

- Beam angle narrow: 60°
- Click into place solution with smart click buttons
- Luminous efficacy: up to 175 lm/W
- Fixed luminare taps
- Luminaire versions available with on-off or IoT-ready DALI-2 driver
- Steel-sheet housing
- Lens material: PMMA
- Type of protection: IP40

© 2026, LEDVANCE GmbH. All rights reserved.

TECHNICAL DATA

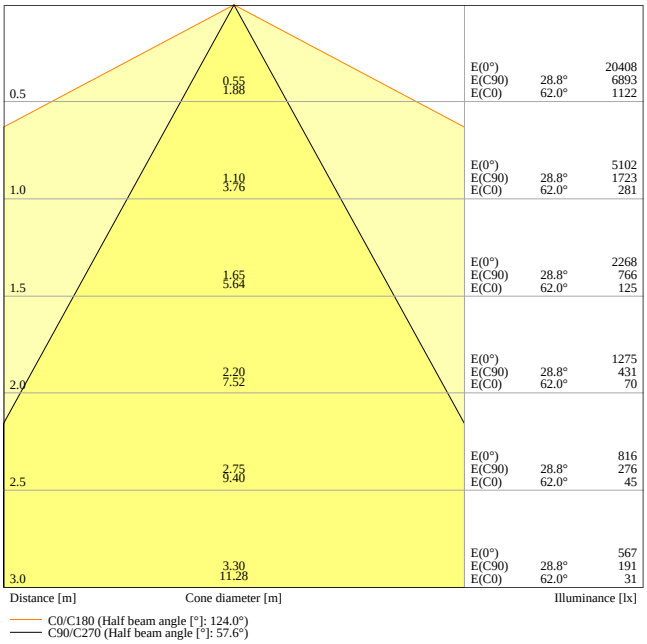
Electrical data

Nominal wattage	50.00 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	230.000 mA
Inrush current	43.8 A
Inrush current time T_{h50}	188 µs
Max. number of luminaires per miniature circuit breaker B16	9
Max. number of luminaires per miniature circuit breaker C10	7
Max. number of luminaires per miniature circuit breaker C16	12
Power factor λ	≥0.94
Maximum total harmonic distortion	≤ 15 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI-2 / IoT / Push-DIM

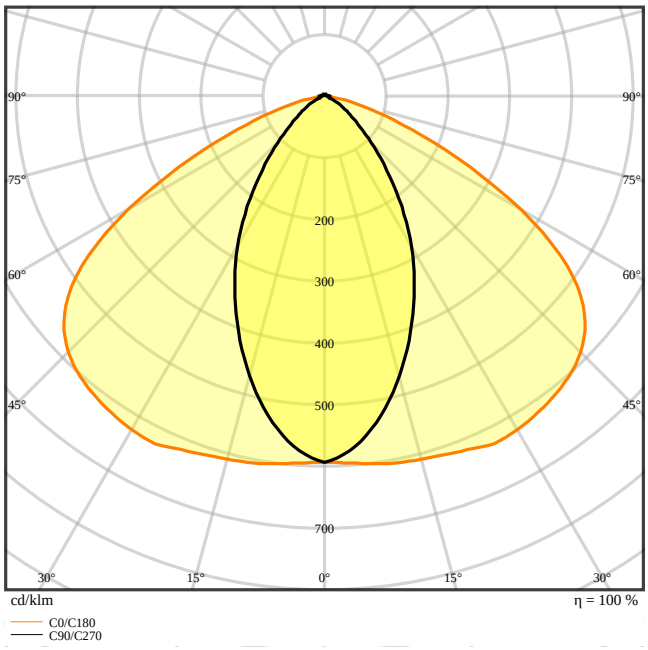
Photometrical data

Luminous flux	8600 lm
Luminous efficacy	175 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	60 °

© 2026, LEDVANCE GmbH. All rights reserved.



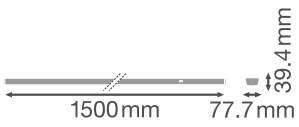
TRUSYS FLEX P 50W 840 N CL WT DALI



TRUSYS FLEX P 50W 840 N CL WT DALI

Dimensions & Weight

Length	1500.00 mm
Width	77.70 mm
Height	39.40 mm
Product weight	1750.00 g



TRUSYS FLEX luminaire - clear

© 2026, LEDVANCE GmbH. All rights reserved.

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9016
Body material	Steel
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	-25…+40 °C
Temperature range at storage	-40…+80 °C
Type of connection	Plug-In connection
Type of protection	IP40
Protection class IK (shock resistance)	IK04
Dimmable	Yes
Type of dimming	DALI
IoT ready	Support of DALI data type PART 251, 252, 253 [1)]
Mounting type	Suspended/Surface
Mounting location	Mounting rail
Application environment	Indoor
Mechanically adjustable	No
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	100000 h [1)]
Lifespan L80/B10 at 25 °C	76000 h [1)]
Lifespan L80/B50 at 25 °C	89000 h
Lifespan L90/B10 at 25 °C	38000 h [1)]
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)

© 2026, LEDVANCE GmbH. All rights reserved.

Control gear

Output current	1050 mA
Output ripple current (100 Hz)	< 10 %

Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
Type of emergency operation test	None

Certificates & Standards

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

Additional product data

Added function	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
	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

© 2026, LEDVANCE GmbH. All rights reserved.

Product image	Product name	EAN
	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
	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

© 2026, LEDVANCE GmbH. All rights reserved.

Product image	Product name	EAN
	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
	REPEATER DALI-2 CEILING MOUNTING	4099854709098

EQUIPMENT / ACCESSORIES

– Mounting rail with fixed integrated 5- and 8-pole cable

© 2026, LEDVANCE GmbH. All rights reserved.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	TRUSYS FLEX P RAIL
PDF	User instruction / safety instructions	TRUSYS FLEX DALI 840
PDF	Legal information	Light Source Insert Trusys Flex DALI
PDF	Legal information	Legal insert TRUSYS FLEX DALI
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	CE Declaration of Conformity TRUSYS FLEX
PDF	Declarations of conformity UKCA	UKCA Declaration of Conformity TRUSYS FLEX
PDF	Certificates	ENEC TRUSYS FLEX P DALI
PDF	EU Data Act	DALI LED Driver and Luminaires

	Photometric and lighting design files	Document name
IES	IES file (IES)	TRUSYS FLEX P 50W 840 N CL WT DALI
LDT	LDT file (Eulumdat)	TRUSYS FLEX P 50W 840 N CL WT DALI
ULD	ULD file (DIALux)	TRUSYS FLEX P 50W 840 N
ROLF	ROLF file (RELUX)	TRUSYS FLEX P 50W 840 N CL WT DALI
	UGR file (UGR table)	TRUSYS FLEX P 50W 840 N CL WT DALI
	Light distribution curve type cone	TRUSYS FLEX P 50W 840 N CL WT DALI
	Light distribution curve type polar	TRUSYS FLEX P 50W 840 N CL WT DALI

	CAD/BIM files	Document name
RFA	BIM Revit 3D	TRUSYS FLEX

© 2026, LEDVANCE GmbH. All rights reserved.

	CAD/BIM files	Document name
	CAD STEP 3D	TruSys FLEX

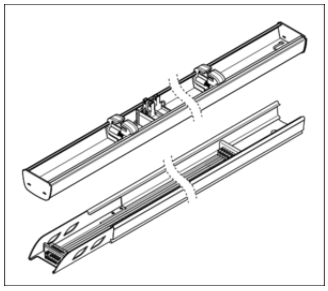
	Tender texts	Document name
	Tender documents	TruSys FLEX NARROW 50W 840 N CL WT DALI-EN

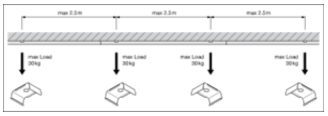
LOGISTICAL DATA

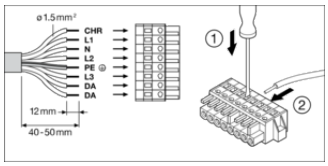
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075770959	Folding box 1	108 mm x 1,534 mm x 102 mm	1925.00 g	16.90 dm^3
4058075770966	Shipping box 4	1,547 mm x 218 mm x 231 mm	8493.00 g	77.90 dm^3

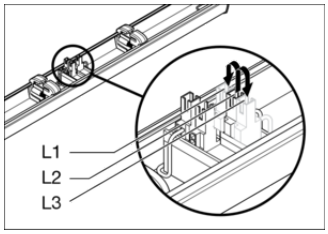
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

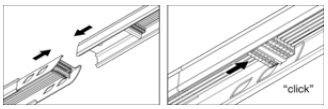
ADDITIONAL CATALOG INFORMATION

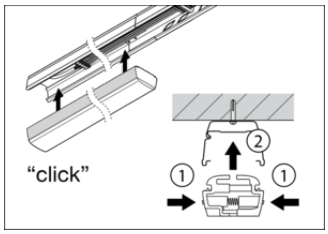












References / Links

– 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.

© 2026, LEDVANCE GmbH. All rights reserved.