

PRODUCT DATASHEET

TruSys® NFL 53 W 4000 K SI DALI

TruSys® NARROW | Luminaire inserts with narrow light distribution

Areas of application

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



PERFOR-
MANCE
CLASS

Product benefits

- Innovative optical design with a rod lense-technology over the entire length of the luminaire
- Internal holders prevent the luminaire from falling while being mounted
- Easy electrical and mechanical connection to the mounting rail via snap-in mounting
- Narrow-beam light distribution for application in rooms with high ceilings
- Clean look as mounting brackets are not visible when mounted
- Plug-and-play system allows easy installation
- High-value design
- Rows of up to 81 (On-Off) / 91 (DALI) luminaires and an overall length of 124 m (On-Off) / 151 m (DALI) possible
- Energy savings of up to 65 % compared to luminaires with 2 x 80 W T5 lamps
- Version with DALI ECG available

Product features



- Narrow beam angle: 25°
- Luminous efficacy: up to 135 lm/W
- Fixed energy taps for electrical connection
- High-quality aluminum casing
- Type of protection: IP20
- Follows the unified LEDVANCE design language (SCALE design)

TECHNICAL DATA

Electrical data

Nominal wattage	53.00 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	250 mA
Inrush current	35 A
Inrush current time T_{h50}	170 μ s
Max. number of luminaires per miniature circuit breaker B16	21
Max. number of luminaires per miniature circuit breaker C10	21
Max. number of luminaires per miniature circuit breaker C16	35
Power factor λ	≥ 0.95
Total harmonic distortion	< 6.1 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI-2

Photometrical data

Luminous flux	6700 lm
Luminous efficacy	125 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥ 80
Standard deviation of color matching	≤ 3 sdcn
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	25 °

Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-20...+45 °C
Type of connection	Plug-In connection
Type of protection	IP20
Protection class IK (shock resistance)	IK07
Dimmable	Yes
Type of dimming	DALI
Mounting type	Suspended/Surface
Mounting location	Mounting rail
Application environment	Indoor
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	75000 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)

Certificates & Standards

Standards	CE / CB / TÜV SÜD / ENEC / EAC
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

EQUIPMENT / ACCESSORIES

– Mounting rail with fixed integrated 5- (On-Off) / 7-pole (DALI) cable

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI_Trusys® TRUNKING SYSTEM DALI
	On-Pack-Info	Legal Insert TRUSYS LED DALI
	Legal information	LS Insert Trusys LED DALI
	Declarations of conformity	TRUSYS LED
	EU Data Act	DALI LED Driver and Luminaires
Photometric and lighting design files		Document name
	IES file (IES)	TruSys LED 53W 4000K NFL SI
	LDT file (Eulumdat)	TruSys LED 53W 4000K NFL SI
	ULD file (DIALux)	TRUSYS LED DALI 53W 4000K NFL SI
	ROLF file (RELUX)	TRUSYS LED DALI 53W 4000K
	UGR file (UGR table)	LEDVANCE TruSys LED DALI 53W 4000K NFL SI
	Light distribution curve type cone	LEDVANCE TruSys LED DALI 53W 4000K NFL SI
	Light distribution curve type polar	LEDVANCE TruSys LED DALI 53W 4000K NFL SI
CAD/BIM files		Document name
	BIM Revit 3D	TRUSYS 1500 3000 4500
	CAD STEP 3D	TRUSYS 1500
Tender texts		Document name
	Tender documents	TruSys NARROW 53 W 4000 K SI DALI-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075102545	Folding box 1	58 mm x 1,552 mm x 82 mm	1965.00 g	7.38 dm ³
4058075102552	Shipping box 3	1,561 mm x 186 mm x 94 mm	7220.00 g	27.29 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.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.