

PRODUCT DATASHEET TruSys® NFL 53 W 6500 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





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 mouting brackets are not visible when mounted
- Plug-and-play system allows easy installation
- High-value design
- $\ \ \text{Rows of up to 81 (On-Off)} \ / \ \ \text{91 (DALI) luminaires and an overall length of 124 m (On-Off)} \ / \ \ \text{151 m (DALI) possible}$
- 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

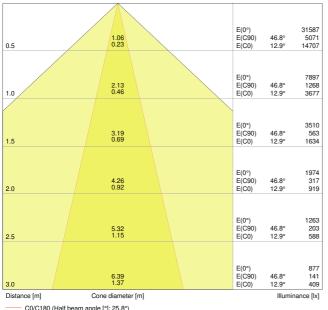
Nominal wattage	53.00 W	
Nominal voltage	220240 V	
Mains frequency	0/50/60 Hz	
Nominal current	250 mA	
Inrush current	35 A	
Inrush current time T _{h50}	170 µs	
Max. number of luminaires per miniature circuit breaker B16	21	
Max. number of luminaires per miniature circuit breaker C10	21	
Max. number 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	

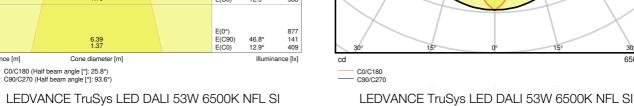
Photometrical data

Luminous flux	6500 lm
Luminous efficacy	125 lm/W
Color temperature	6500 K
Light color (designation)	Cool Daylight
Color rendering index Ra	≥80
Standard deviation of color matching	≤3 sdcm
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	25 °

3200

4800





Dimensions & Weight

Length	1534.00 mm
Width	71.00 mm
Height	53.00 mm
Product weight	1800.00 g



Materials & Colors

Product color	Silver	
Housing color	Silver	
Body material	Aluminum	
Cover material	Polymethylmethacrylate (PMMA)	
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+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

User instruction / safety instructions	UI_TruSys® TRUNKING SYSTEM DALI	
PDF On-Pack-Info	Legal Insert TRUSYS LED DALI	
PDF Legal information	LS Insert Trusys LED DALI	
PDF Declarations of conformity	TRUSYS LED	
Photometric and lighting design files Doc	ument name	
IES file (IES)	SYS LED DALI 53W 6500K N	
LDT file (Eulumdat) LED	VANCE TruSys LED DALI 53W 6500K NFL SI	
ULD file (DIALux) TruS	SysDALINARROW53W6500KSI	
ULD file (DIALux) TRU	SYS NARROW 53W 6500 K	
ROLF file (RELUX)	SYS LED DALI 53W 6500K	
UGR file (UGR table) LED	VANCE TruSys LED DALI 53W 6500K NFL SI	
Light distribution curve type cone LED	VANCE TruSys LED DALI 53W 6500K NFL SI	
Light distribution curve type polar LED	VANCE TruSys LED DALI 53W 6500K NFL SI	
CAD/BIM files Document	name	
BIM Revit 3D TRUSYS 1	500 3000 4500	
CAD STEP 3D TRUSYS 1	500	
Tender texts Document name		
Tender documents TruSys NARROW	53 W 6500 K SI DALI-EN	

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075102569	Folding box 1	58 mm x 1,552 mm x 82 mm	1965.00 g	7.38 dm ³
4058075102576	Shipping box 3	1,561 mm x 186 mm x 94 mm	7060.00 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.