

# PRODUCT DATASHEET

## TruSys® NFL 53 W 6500 K SI

TruSys® NARROW | Luminaire inserts with narrow light distribution

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### Areas of application

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



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### 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

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### 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)

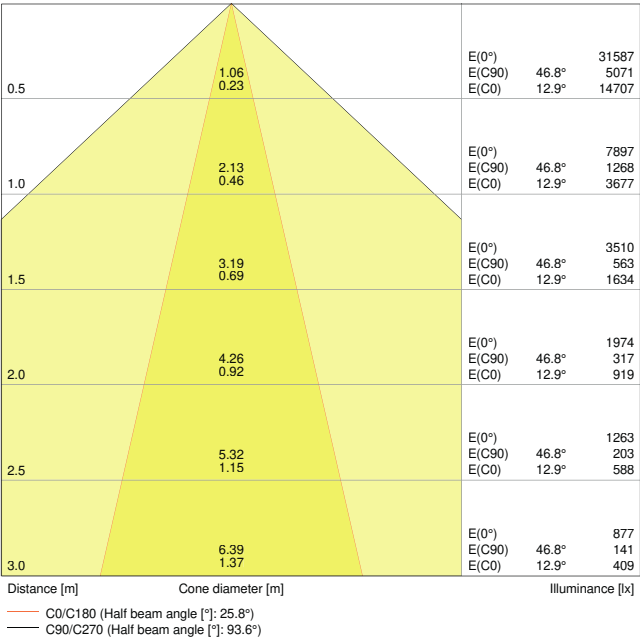
## TECHNICAL DATA

### Electrical data

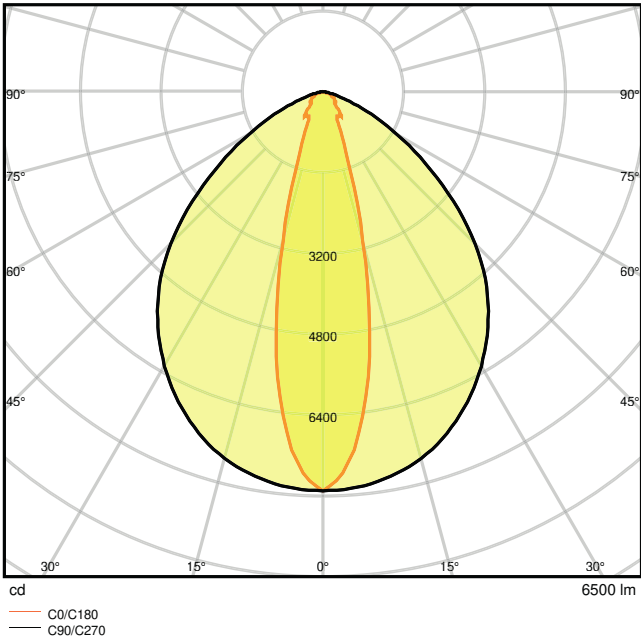
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 53.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 220 mA                |
| Inrush current                                              | 30 A                  |
| Inrush current time $T_{h50}$                               | 250 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 16                    |
| Max. number of luminaires per miniature circuit breaker C10 | 15                    |
| Max. number of luminaires per miniature circuit breaker C16 | 27                    |
| Power factor $\lambda$                                      | $\geq 0.95$           |
| Total harmonic distortion                                   | < 6.1 %               |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

### Photometrical data

|                                              |                            |
|----------------------------------------------|----------------------------|
| Luminous flux                                | 6500 lm                    |
| Luminous efficacy                            | 125 lm/W                   |
| Color temperature                            | 6500 K                     |
| Light color (designation)                    | Cool Daylight              |
| Color rendering index Ra                     | $\geq 80$                  |
| Standard deviation of color matching         | $\leq 3$ sdc <sub>cm</sub> |
| Low flicker                                  | Yes                        |
| Photobiological safety group acc. to EN62778 | RG1                        |
| Photobiological safety group acc. to EN62471 | RG1                        |
| Beam angle                                   | 25 °                       |



LEDVANCE TruSys LED 53W 6500K NFL SI



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Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1534.00 mm |
| Width          | 71.00 mm   |
| Height         | 53.00 mm   |
| Product weight | 1740.00 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                               | No                 |
| 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 <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 50000 h               |
| Lifespan L90/B10 at 25 °C  | 35000 h               |
| Number of switching cycles | 100000                |

<sup>1)</sup> 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 / RoHS |
| 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_TrSys® TRUNKING SYSTEM |

| Documents and certificates                                                          |                                     | Document name                        |
|-------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------|
|    | On-Pack-Info                        | Legal Insert TruSys                  |
|    | Legal information                   | LS Insert Trusys LED                 |
|    | Declarations of conformity          | TRUSYS LED                           |
| Photometric and lighting design files                                               |                                     | Document name                        |
|    | IES file (IES)                      | TRUSYS LED 53W 6500K NFL SI          |
|    | LDT file (Eulumdat)                 | LEDVANCE TruSys LED 53W 6500K NFL SI |
|    | ULD file (DIALux)                   | TruSysNARROW53W6500KSI               |
|    | ULD file (DIALux)                   | TRUSYS NARROW 53W 6500K              |
|   | ROLF file (RELUX)                   | TRUSYS LED 53W 6500K                 |
|  | UGR file (UGR table)                | LEDVANCE TruSys LED 53W 6500K NFL SI |
|  | Light distribution curve type cone  | LEDVANCE TruSys LED 53W 6500K NFL SI |
|  | Light distribution curve type polar | LEDVANCE TruSys LED 53W 6500K 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 6500 K SI-en     |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume   |
|---------------|------------------------------|--------------------------------------|--------------|----------|
| 4058075100558 | Folding box<br>1             | 58 mm x 1,552 mm x 82 mm             | 1905.00 g    | 7.38 dm³ |

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4058075100565 | Shipping box<br>3            | 1,561 mm x 186 mm x 94 mm            | 6980.00 g    | 27.29 dm³ |

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.