

# PRODUCT DATASHEET

## TruSys® W 53 W 6500 K SI DALI

TruSys® WIDE | Luminaire inserts with wide 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



PERFOR-  
MANCE  
CLASS

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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
- Homogenous light distribution
- 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



- Beam angle: 105°
- 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)

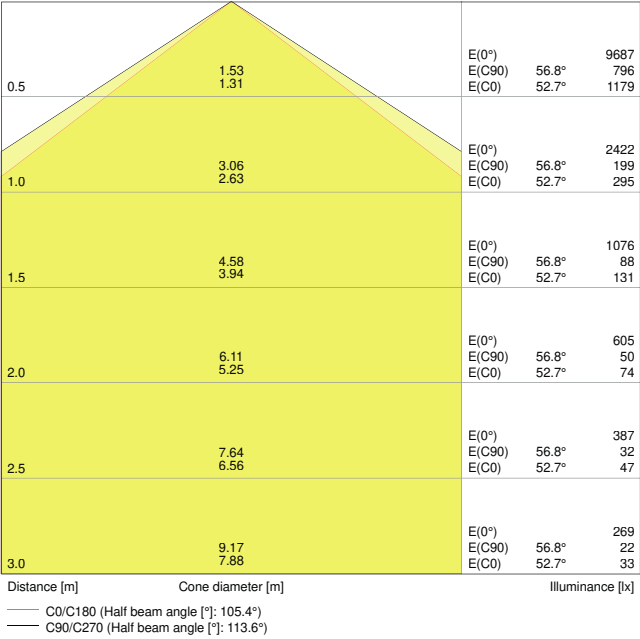
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**TECHNICAL DATA****Electrical data**

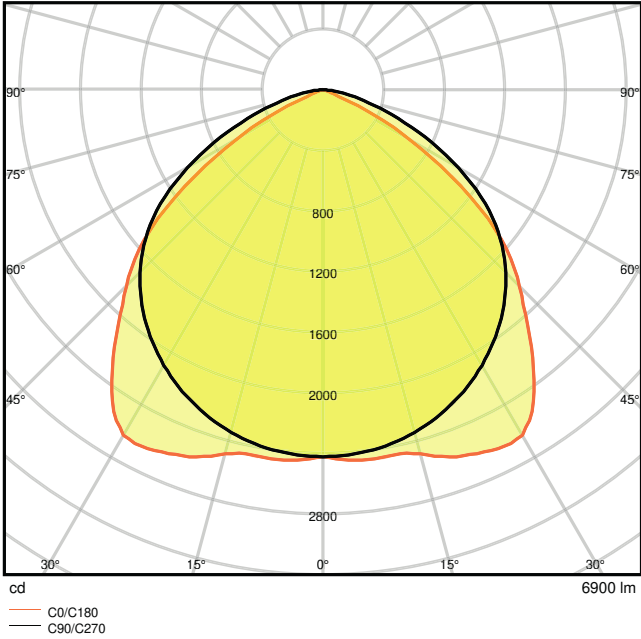
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 53.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 250 mA                |
| Inrush current                                              | 35 A                  |
| Inrush current time $T_{h50}$                               | 170 $\mu$ 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 $\lambda$                                      | $\geq 0.95$           |
| Total harmonic distortion                                   | < 6.1 %               |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |
| Dimming interface                                           | DALI-2                |

**Photometrical data**

|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 6900 lm                   |
| Luminous efficacy                            | 130 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>m</sub> |
| Low flicker                                  | Yes                       |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Photobiological safety group acc. to EN62471 | RG1                       |
| Beam angle                                   | 105 °                     |



LEDVANCE TruSys LED DALI 53W 6500K W SI



LEDVANCE TruSys LED DALI 53W 6500K W SI

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                |

### 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 |
| 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 DALI |

| Documents and certificates                                                        |                            | Document name                |
|-----------------------------------------------------------------------------------|----------------------------|------------------------------|
|  | On-Pack-Info               | Legal Insert TRUSYS LED DALI |
|  | Legal information          | LS Insert Trusys LED DALI    |
|  | Declarations of conformity | TRUSYS LED                   |

| Photometric and lighting design files                                               |                                     | Document name                           |
|-------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------|
|    | IES file (IES)                      | TRUSYS LED DALI 53W 6500K W             |
|    | LDT file (Eulumdat)                 | LEDVANCE TruSys LED DALI 53W 6500K W SI |
|    | ULD file (DIALux)                   | TruSysDALIWIDE53W6500KSI                |
|    | ROLF file (RELUX)                   | TRUSYS LED DALI 53W 6500K               |
|   | UGR file (UGR table)                | LEDVANCE TruSys LED DALI 53W 6500K W SI |
|  | UGR file (UGR table)                | TRUSYS WIDE 53 W 6500 K                 |
|  | Light distribution curve type cone  | LEDVANCE TruSys LED DALI 53W 6500K W SI |
|  | Light distribution curve type polar | LEDVANCE TruSys LED DALI 53W 6500K W 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 WIDE 53 W 6500 K SI DALI-EN |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume   |
|---------------|------------------------------|--------------------------------------|--------------|----------|
| 4058075102507 | Folding box<br>1             | 58 mm x 1,552 mm x 82 mm             | 1965.00 g    | 7.38 dm³ |

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075102514 | Shipping box<br>3            | 1,561 mm x 186 mm x 94 mm            | 6850.00 g    | 27.29 dm <sup>3</sup> |

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.