

# PRODUCT DATASHEET

## TRUSYS UNIV P 50W 840 N CL PS

TRUSYS UNIVERSAL | The solution for refurbishment - universal fitting to existing trunking luminaire system

### Areas of application

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



PERFOR-  
MANCE  
CLASS

### Product benefits

- The solution for refurbishment: universal fitting to existing trunking luminaire system
- Easy installation, no tools required for connection
- Energy saving and cost-effective
- Flexible application due to a range of different lumen packages and beam angles

### Product features

- Multi Lumen function: power steps selectable
- Beam angles: 120° (VW), 90° (W), 60° (N), 30° (VN)
- Click into place solution with smart click buttons
- Luminous efficacy: up to 185 lm/W
- Lifetime (L80/B10): up to 100,000 h (at 25 °C)
- Initial color consistency:  $\leq 3$  SDCM



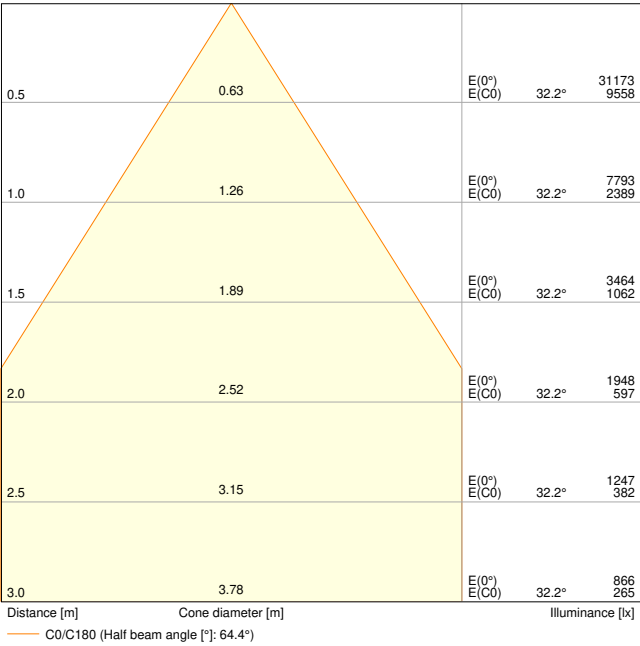
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**TECHNICAL DATA****Electrical data**

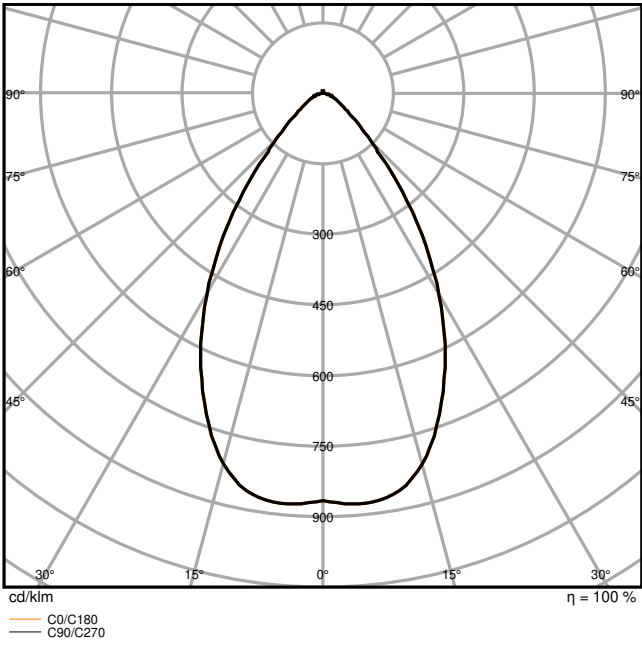
|                                                             |                               |
|-------------------------------------------------------------|-------------------------------|
| Nominal wattage                                             | 50 W / 40 W / 30 W / 20 W     |
| Nominal voltage                                             | 220...240 V                   |
| Mains frequency                                             | 0/50/60 Hz                    |
| Nominal current                                             | 230mA / 180mA / 135mA / 90 mA |
| Inrush current                                              | 22.6 A                        |
| Inrush current time T <sub>h50</sub>                        | 247 µs                        |
| Max. number of luminaires per miniature circuit breaker B16 | 14                            |
| Max. number of luminaires per miniature circuit breaker C10 | 13                            |
| Max. number of luminaires per miniature circuit breaker C16 | 21                            |
| Power factor $\lambda$                                      | ≥0.90                         |
| Total harmonic distortion                                   | < 15 %                        |
| Protection class                                            | I                             |
| Operating mode                                              | Integrated LED driver         |

**Photometrical data**

|                                              |                                       |
|----------------------------------------------|---------------------------------------|
| Luminous flux                                | 9000 lm / 7400 lm / 5550 lm / 3700 lm |
| Luminous efficacy                            | 180 lm/W / 185 lm/W                   |
| Color temperature                            | 4000 K                                |
| Light color (designation)                    | Cool White                            |
| Color rendering index Ra                     | > 80                                  |
| Standard deviation of color matching         | < 3 sdc <sub>m</sub>                  |
| Low flicker                                  | Yes                                   |
| Flickering metric (Pst LM)                   | <1                                    |
| Stroboscope effect metric (SVM)              | <0.4                                  |
| Photobiological safety group acc. to EN62778 | RG1                                   |
| Beam angle                                   | 60 °                                  |



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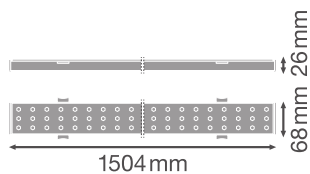
TRUSYS UNIV P 50W 840 N CL PS

Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 50 W            | 4000 K            | 9000 lm       | 180 lm/W          |
| 40 W            | 4000 K            | 7400 lm       | 185 lm/W          |
| 30 W            | 4000 K            | 5550 lm       | 185 lm/W          |
| 20 W            | 4000 K            | 3700 lm       | 185 lm/W          |

Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1504.00 mm |
| Width          | 68.00 mm   |
| Height         | 26.00 mm   |
| Product weight | 1615.00 g  |



TRUSYS UNIV P 73/75W 840 CL  
PS/DALI

Materials & Colors

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Product color                              | White                         |
| Housing color                              | White                         |
| Body material                              | Aluminum                      |
| 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              | -20...+40 °C       |
| Temperature range at storage           | -40...+80 °C       |
| Type of connection                     | Plug-In connection |
| Type of protection                     | IP20               |
| Protection class IK (shock resistance) | IK02               |
| Dimmable                               | No                 |
| Mounting type                          | Surface/Suspended  |
| Mounting location                      | Mounting rail      |
| Application environment                | Indoor             |
| Adjustable                             | No                 |
| With light source                      | Yes                |
| Replaceable light source               | No                 |

Lifespan

|                            |                        |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C  | 120000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L90/B10 at 25 °C  | 54000 h                |
| Number of switching cycles | 50000                  |

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

### Control gear

|                             |                                |
|-----------------------------|--------------------------------|
| Output current              | 500mA / 400mA / 300mA / 200 mA |
| ECG - Output ripple current | < 5 %                          |

### Emergency lighting

|                                           |                                                                                 |
|-------------------------------------------|---------------------------------------------------------------------------------|
| Type of Emergency Lighting (EL)           | EL certified driver (0Hz / DC operation) for central battery operation included |
| Type of emergency operation test          | None                                                                            |
| Wattage in emergency operation mode       | 50 W                                                                            |
| Luminous flux in emergency operation mode | 9000 lm                                                                         |

### Certificates & Standards

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

### Additional product data

|                |              |
|----------------|--------------|
| Added function | MULTI SELECT |
|----------------|--------------|

### EQUIPMENT / ACCESSORIES

– Various accessories available

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                      |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
|  | User instruction / safety instructions | UI TRUSYS UNIVERSAL                |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |

| Documents and certificates                                                          |                                     | Document name                       |
|-------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
|    | Legal information                   | Legal insert                        |
|    | Legal information                   | Safety Insert G11205497             |
|    | Declarations of conformity          | CE declaration TRUSYS UNIVERSAL     |
|    | Declarations of conformity UKCA     | UKCA declaration TRUSYS UNIVERSAL   |
| Photometric and lighting design files                                               |                                     | Document name                       |
|    | IES file (IES)                      | TRUSYS UNIV P 50W 840 N CL PS       |
|    | LDT file (Eulumdat)                 | TRUSYS UNIV P 50W 840 N CL PS       |
|    | UGR file (UGR table)                | TRUSYS UNIV P 50W 840 N CL PS       |
|    | Light distribution curve type cone  | TRUSYS UNIV P 50W 840 N CL PS       |
|  | Light distribution curve type polar | TRUSYS UNIV P 50W 840 N CL PS       |
| CAD/BIM files                                                                       |                                     | Document name                       |
|  | BIM Revit 3D                        | TruSys Universal                    |
|  | CAD STEP 3D                         | TRUSYS UNIV                         |
| Tender texts                                                                        |                                     | Document name                       |
|  | Tender documents                    | TRUSYS UNIVERSAL 50W 840 N CL PS-en |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4099854496684 | Folding box<br>1             | 93 mm x 1,540 mm x 69 mm             | 1905.00 g    | 9.88 dm³  |
| 4099854496691 | Shipping box<br>4            | 1,545 mm x 295 mm x 110 mm           | 9080.00 g    | 50.14 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.

