

RC453B 28S/  
UE840MXO9010ELP3  
L1200W300B30  
910505103979



## TrueBlend Recessed, UltraEfficient, 25.5 W, 1200X300 mm, B30, 2800 lm, 4000 K, UGR19, TP(b), ELD3h/EL-DC

1200X300 mm, Steel, White, Pure white (RAL9010), Single layer powder coating, Mounting bracket - fixed height 30 mm - For C/U profiles, Power supply unit with DALI interface, DC compatible for central emergency lighting (integrated), 2800 lm, 25.5 W, 110 lm/W, 4000 K, (0.38, 0.38) SDCM  $\leq 3.0$ , UGR19, Wide beam, White reflector, Micro-hexagonal optic, Polystyrene, IP20 | Finger-protected, IK03 | 0.3 J, Safety class I, Push-in connector 6-pole, TP(b) diffuser flammability class, Emergency lighting 3 hours duration Pro version, DC operated central emergency lighting

### Warnings and Safety

- The product is IP20 and, as such, is not protected against water ingress. Therefore, we strongly recommend that the environment in which the luminaire is to be installed is suitably checked.
- If the above advice is not taken and the luminaires are subject to water ingress, Philips / Signify cannot guarantee safe failure and the product warranty will become void.

## General Information

|                          |                                       |
|--------------------------|---------------------------------------|
| Lamp family code         | 28S [LED module, system flux 2800 lm] |
| Number of gear units     | 1 unit                                |
| Driver included          | Yes                                   |
| Light source engine type | LED                                   |
| Service tag              | Yes                                   |
| Value ladder             | Specification                         |
| Warranty period          | 5 years                               |

## Light Technical

|                                    |                   |
|------------------------------------|-------------------|
| Upward light output ratio          | 0                 |
| Luminous Flux                      | 2,800 lm          |
| Correlated Color Temperature (Nom) | 4000 K            |
| Luminous Efficacy (rated) (Nom)    | 110 lm/W          |
| Color rendering index (CRI)        | >80               |
| Light source color                 | 840 neutral white |
| Optic type                         | Wide beam         |
| Luminaire light beam spread        | 76° x 74°         |
| Unified glare rating CEN           | 19                |
| Melanopic Daylight Efficacy Ratio  | 0.58              |

## Operating and Electrical

|                                          |                          |
|------------------------------------------|--------------------------|
| Input Voltage                            | 220 to 240 V             |
| Line Frequency                           | 50 to 60 Hz              |
| Inrush current                           | 23.1 A                   |
| Inrush time                              | 221 ms                   |
| Power Consumption                        | 25.5 W                   |
| Power Factor (Fraction)                  | 0.9                      |
| Connection                               | Push-in connector 6-pole |
| Cable                                    | -                        |
| Number of products on MCB of 16 A type B | 22                       |
| Suitable for random switching            | No                       |
| Protection class IEC                     | Safety class I           |
| Total harmonic distortion                | 20 %                     |

## Controls and Dimming

|                               |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| Dimmable                      | Yes                                                                                              |
| Driver/power unit/transformer | Power supply unit with DALI interface, DC compatible for central emergency lighting (integrated) |
| Constant light output         | No                                                                                               |
| DALI Standard                 | DALI-2™                                                                                          |
| Maximum dim level             | 1%                                                                                               |
| Embedded control              | -                                                                                                |

## Mechanical and Housing

|                                     |                                                          |
|-------------------------------------|----------------------------------------------------------|
| Housing Material                    | Steel                                                    |
| Reflector material                  | Steel                                                    |
| Optic material                      | Polystyrene                                              |
| Optical cover material              | Polystyrene                                              |
| Fixation material                   | Steel                                                    |
| Housing Color                       | White                                                    |
| Mounting device                     | -                                                        |
| Optical cover shape                 | Flat                                                     |
| Optical cover finish                | Micro-hexagonal optic                                    |
| Reflector Finish                    | White reflector                                          |
| Overall length                      | 1,200 mm                                                 |
| Overall width                       | 300 mm                                                   |
| Overall height                      | 75 mm                                                    |
| Dimensions (Height x Width x Depth) | 75 x 300 x 1200 mm                                       |
| Ingress protection code             | IP20 [Finger-protected]                                  |
| Mech. impact protection code        | IK03 [0.3 J]                                             |
| Mounting                            | Mounting bracket - fixed height 30 mm - For C/U profiles |
| Optical cover type                  | Micro Hexagonal Optic                                    |
| Net Weight (Piece)                  | 6.170 kg                                                 |

## Emergency Operation

|                                                               |                                                                                |
|---------------------------------------------------------------|--------------------------------------------------------------------------------|
| Emergency flux                                                | 405 lm                                                                         |
| Power consumption during Central DC emergency mode            | 6 W                                                                            |
| Rated duration of the emergency lighting (when fully charged) | 3 hour(s)                                                                      |
| Central Emergency                                             | Yes                                                                            |
| Emergency lighting                                            | Emergency lighting 3 hours duration Pro version                                |
| Emergency function testing method                             | Programmed automatic self testing via DALI or wireless lighting control system |
| Emergency lighting operation mode                             | Maintained                                                                     |

## Approval and Application

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Glow-wire test                     | Temperature 850 °C, duration 30 s              |
| Flammability mark                  | For mounting on normally flammable surfaces    |
| CE mark                            | Yes                                            |
| ENEC mark                          | ENEC mark                                      |
| Photobiological risk               | Photobiological risk group 1 @200mm to EN62778 |
| EU RoHS compliant                  | Yes                                            |
| Diffuser Flammability Class        | TP(b) diffuser flammability class              |
| Performance ambient temperature Tq | 25 °C                                          |
| Ambient temperature range          | +10 to +35 °C                                  |

## Initial Performance (IEC Compliant)

|                                       |                        |
|---------------------------------------|------------------------|
| Luminous flux tolerance               | +/-10%                 |
| Initial chromaticity                  | (0.38, 0.38) SDCM ≤3.0 |
| Power consumption tolerance           | +/-10%                 |
| Init. Color Rendering Index Tolerance | +/-2                   |

## Over Time Performance (IEC Compliant)

|                                                                      |       |
|----------------------------------------------------------------------|-------|
| Control gear failure rate at median useful life 50000 h              | 2.5 % |
| Control gear failure rate at median useful life 100000 h             | 5 %   |
| Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h  | L90   |
| Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h | L80   |

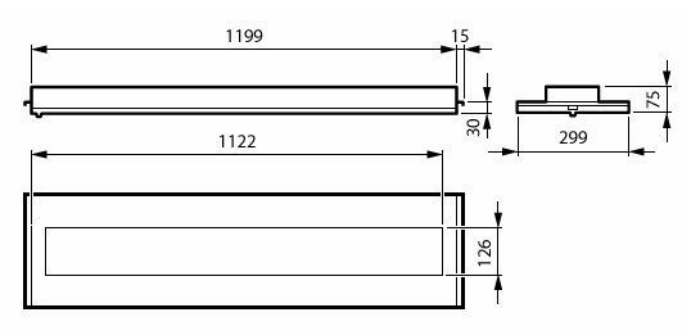
## Sustainability Data

|                                            |                                                                                                                                                                                                                                                   |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainability rating                      | Unclassified                                                                                                                                                                                                                                      |
| Repair class                               | Repair Class C, the driver of this luminaire can be replaced by a service technician. Special care is required during disassembly and reassembly, and specific tools may be required. Parts and documentation are available for a period of time. |
| Non-virgin material ratio of the packaging | Cardboard > 80% recycled                                                                                                                                                                                                                          |
| Packaging Recyclable content ratio         | Cardboard recycling rate > 80%                                                                                                                                                                                                                    |
| Packaging Material                         | Cardboard                                                                                                                                                                                                                                         |

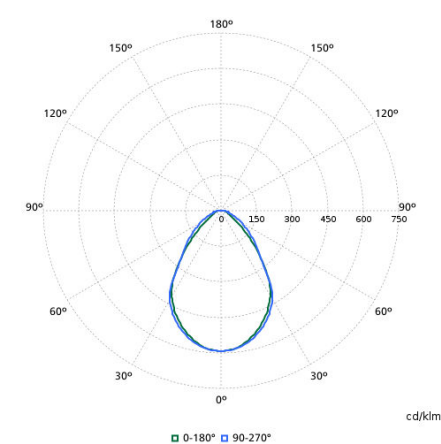
## Product Data

|                                 |                                          |
|---------------------------------|------------------------------------------|
| Order product name              | RC453B 28S/UE840MXO9010ELP3 L1200W300B30 |
| Full product name               | RC453B 28S/UE840MXO9010ELP3 L1200W300B30 |
| Full product code               | 872016962203600                          |
| Order code                      | 62203600                                 |
| Material Nr. (12NC)             | 910505103979                             |
| Numerator - Quantity Per Pack   | 1                                        |
| EAN/UPC - Product/Case          | 8720169622036                            |
| Numerator - Packs per outer box | 1                                        |
| EAN/UPC - Case                  | 8720169622036                            |
| Product family code             | RC455B [TrueBlend Recessed Bandraster]   |

Dimensional drawing



Polar normal diagrams



Related Documents

| Documents and certificates        | Document Name                                                           | Download                 |
|-----------------------------------|-------------------------------------------------------------------------|--------------------------|
| Installation Instructions         | Trueblend-installationinstructions.pdf                                  | <a href="#">Download</a> |
| Tender text                       | Tender_Text_910505103979_en_AE.txt                                      | <a href="#">Download</a> |
| Environmental Product Declaration | EPD-TrueBlend-Recessed-RC455B-L1970W200-4ft-OPTICS-Ref-910505106128.pdf | <a href="#">Download</a> |
| Photometry and lighting design    | Document Name                                                           | Download                 |
| LDT File                          | LDT File - RC450BI - 910505103979.ltd                                   | <a href="#">Download</a> |
| ROLF File                         | ROLF File - RC450BI - 910505103979.rolfz                                | <a href="#">Download</a> |
| ULD File                          | ULD File - RC450BI - 910505103979.uld                                   | <a href="#">Download</a> |
| Revit file                        | Revit file - RC450BI - 910505103979.zip                                 | <a href="#">Download</a> |

