

RC453B42S/  
940DLO9010U4ELW3W4L  
1200W300B30  
910505103974



signify  
interact



## TrueBlend Recessed, 32 W, 1200X300 mm, B30, 4200 lm, 4000 K, CRI>90, Wireless, Interact Ready, UGR19, U4, Wieland, TP(b), ELW3h/EL-DC

1200X300 mm, Steel, White, Pure white (RAL9010), Single layer powder coating, Mounting bracket - fixed height 30 mm - For C/U profiles, Sensor ready driver Interact System ready for central emergency lighting, Upgradable sensor slot with SC200 sensor, 4200 lm, 32 W, 131 lm/W, 4000 K, (0.38, 0.38) SDCM  $\leq 3.0$ , CRI>90, UGR19, Wide beam office compliant, White reflector, Diffused lens optic, Polymethyl methacrylate, IP20 | Finger-protected, IK03 | 0.3 J, Safety class I, Plug-in connector 4-pole Wieland/Adels compatible, TP(b) diffuser flammability class, DC operated central emergency lighting, Emergency lighting 3 hours duration with Wireless Interface

### 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         | 42S [LED Module, system flux 4200 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                      | 4,200 lm                   |
| Correlated Color Temperature (Nom) | 4000 K                     |
| Luminous Efficacy (rated) (Nom)    | 131 lm/W                   |
| Color rendering index (CRI)        | >90                        |
| Light source color                 | 940 neutral white          |
| Optic type                         | Wide beam office compliant |
| Luminaire light beam spread        | 76° x 74°                  |
| Unified glare rating CEN           | 19                         |
| Melanopic Daylight Efficacy Ratio  | 0.62                       |

Operating and Electrical

|                                          |                                                    |
|------------------------------------------|----------------------------------------------------|
| Input Voltage                            | 220 to 240 V                                       |
| Line Frequency                           | 50 to 60 Hz                                        |
| Inrush current                           | 23 A                                               |
| Inrush time                              | 216 ms                                             |
| Power Consumption                        | 32 W                                               |
| Power Factor (Fraction)                  | 0.9                                                |
| Connection                               | Plug-in connector 4-pole Wieland/ Adels compatible |
| Cable                                    | -                                                  |
| Number of products on MCB of 16 A type B | 24                                                 |
| Suitable for random switching            | Yes                                                |
| Protection class IEC                     | Safety class I                                     |
| Total harmonic distortion                | 20 %                                               |

Wiring

|                |         |
|----------------|---------|
| Connector Type | Wieland |
|----------------|---------|

Controls and Dimming

|                               |                                                                          |
|-------------------------------|--------------------------------------------------------------------------|
| Dimmable                      | Yes                                                                      |
| Driver/power unit/transformer | Sensor ready driver Interact System ready for central emergency lighting |
| Control interface             | Wireless                                                                 |
| Constant light output         | No                                                                       |
| Maximum dim level             | 1%                                                                       |
| Connectivity                  | Interact Ready                                                           |
| Embedded control              | Upgradable sensor slot with SC200 sensor                                 |

Mechanical and Housing

|                                     |                                                          |
|-------------------------------------|----------------------------------------------------------|
| Housing Material                    | Steel                                                    |
| Reflector material                  | Steel                                                    |
| Optic material                      | Polymethyl methacrylate                                  |
| Optical cover material              | Polymethyl methacrylate                                  |
| Fixation material                   | Steel                                                    |
| Housing Color                       | White                                                    |
| Mounting device                     | -                                                        |
| Optical cover shape                 | Flat                                                     |
| Optical cover finish                | Diffused lens optic                                      |
| Reflector Finish                    | White reflector                                          |
| Overall length                      | 1,200 mm                                                 |
| Overall width                       | 300 mm                                                   |
| Overall height                      | 100 mm                                                   |
| Dimensions (Height x Width x Depth) | 100 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                  | Acrylic bowl/cover frosted                               |
| Net Weight (Piece)                  | 6.170 kg                                                 |

Emergency Operation

|                                                               |                                                                                |
|---------------------------------------------------------------|--------------------------------------------------------------------------------|
| Emergency flux                                                | 520 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                                            | DC operated central emergency lighting                                         |
| 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   |

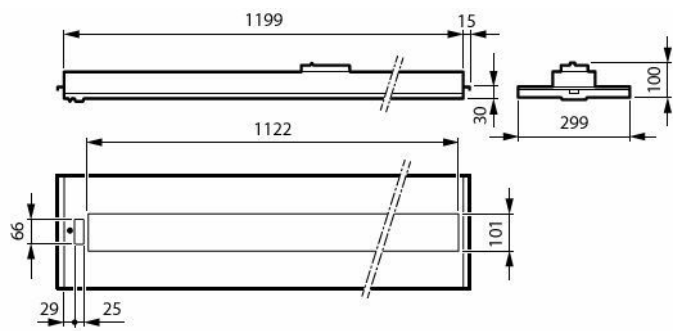
Sustainability Data

|                                            |                                                                                                                                                                                                                                                   |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                         |

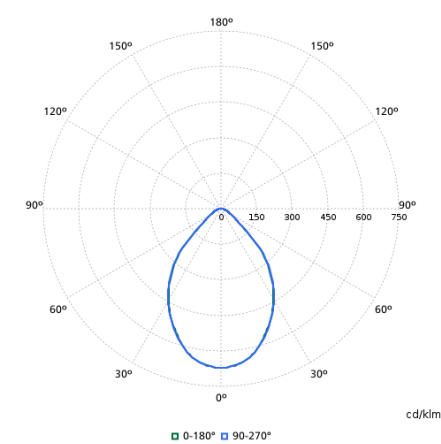
Product Data

|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
| Order product name              | RC453B42S/<br>940DLO9010U4ELW3W4L1200W30<br>0B30 |
| Full product name               | RC453B42S/<br>940DLO9010U4ELW3W4L1200W30<br>0B30 |
| Full product code               | 872016962198500                                  |
| Order code                      | 910505103974                                     |
| Material Nr. (12NC)             | 910505103974                                     |
| Numerator - Quantity Per Pack   | 1                                                |
| EAN/UPC - Product/Case          | 8720169621985                                    |
| Numerator - Packs per outer box | 1                                                |
| EAN/UPC - Case                  | 8720169621985                                    |
| Product family code             | RC455B [TrueBlend Recessed<br>Bandraster]        |

Dimensional drawing



Polar normal diagrams



Integrated Sensor

| Sensor Image English                                                                | Sensor Code  | Sensor Name            | Website                         |
|-------------------------------------------------------------------------------------|--------------|------------------------|---------------------------------|
|  | 913701069403 | SC200B/02 SR Sensor WH | <a href="#">Product Website</a> |

Related Documents

| Documents and certificates        | Document Name                                                           | Download                 |
|-----------------------------------|-------------------------------------------------------------------------|--------------------------|
| Installation Instructions         | Trueblend-installationinstructions.pdf                                  | <a href="#">Download</a> |
| Environmental Product Declaration | EPD-TrueBlend-Recessed-RC455B-L1970W200-4ft-OPTICS-Ref-910505106128.pdf | <a href="#">Download</a> |
| Tender text                       | Tender_Text_910505103974_en_SA.txt                                      | <a href="#">Download</a> |

| Photometry and lighting design | Document Name                            | Download                                                                                                     |
|--------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| LDT File                       | LDT File - RC450BI - 910505103974.ldt    | <a href="#">Download</a>  |
| ROLF File                      | ROLF File - RC450BI - 910505103974.rolfz | <a href="#">Download</a>  |
| ULD File                       | ULD File - RC450BI - 910505103974.uld    | <a href="#">Download</a>  |
| Revit file                     | Revit file - RC450BI - 910505103974.zip  | <a href="#">Download</a>  |

