

TrueBlend Recessed

RC450BI



TrueBlend: Proposition built around flexibility, choice and performance.

When specifying lighting for premium office applications, technical specifiers need to deal with a wide variety of requirements and constraints linked to ceiling types and customer/architect preferences. Philips TrueBlend is a flexible luminaire portfolio offering choice in look and feel for the architect, and mechanical fit to many different ceiling types and a palette of optics to choose from. Philips TrueBlend is built around flexibility and choice; our new recessed office range is a perfect fit for your non-standard ceiling or renovation project where luminaires need to fit the hole of existing luminaires. A wide variety of optics, best-in-class efficacy, combined with our wellbeing LED spectra and Interact connectivity, offers choice in performance and look and feel. TrueBlend helps save energy & provide the right level of light. Not only is it compliant with the WELL Building Standard for Light, but also is rated UGR<19, which is compliant with all office norms (OC). This luminaire family is available in different lengths, light outputs, optics, housing colours, various bracket heights and

connectors. This offers the ultimate design flexibility and unlimited possibilities. TrueBlend luminaires offer state-of-the-art efficacy and excellent light quality (CRI>90) with upgradability features and repairability that promises a long lifetime. They are also designed for recyclability, making them a truly circular, environmentally friendly choice. So, TrueBlend is an all-in-one solution with superior lighting specifications combined with a sustainable approach to high-performance office lighting.

Benefits

- Designed for enhanced well-being of people with high quality of light.
- Best-in-class efficacy with superior lighting specifications and long lifetime
- Sustainable, future-ready, scalable smart office capabilities with best-in-class Interact proposition.
- Significantly reduces operational costs for an attractive payback time.

Applications

- Offices
- Education
- Retail

Features

- Best-in-class efficacy up to 170lm/W supports green building design and energy saving subsidy criteria.
- Office-compliant lighting with wide optics choices like DLO, MLO & mini cups.

Versions

- Highly uniform lighting with excellent glare control (UGR<19, L65<3000cd/m2)
- 3000K, 4000K, Tunable White & tunable white bio-up versions, all CRI>90
- Long lifetime up to 50,000 hours@L90
- Wide connector choice for simpler and faster installation
- A connected system ready with the Interact Pro scalable platform using integrated sensors and/or wireless drivers for data collection, occupancy, daylight regulation and wayfinding.
- Prepared for circularity (no glue, replaceable electronics, upgradable system, efficient and long lifetime) plus supporting Environmental Product Declaration (EPD) guide.
- Recessed mounting options, including all accessories.
- 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.



TrueBlend Recessed RC453B
MXO



TrueBlend Recessed RC453B
DLO U4



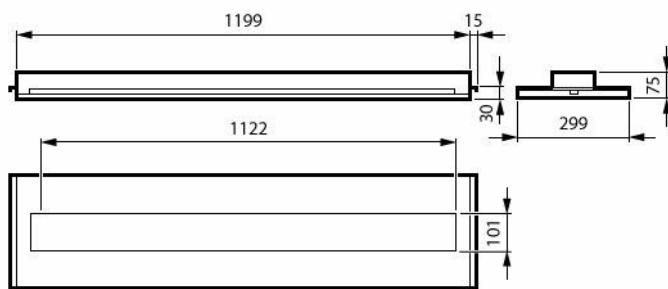
TrueBlend Recessed RC453X
MXO

TrueBlend Recessed RC453B
DLO U5

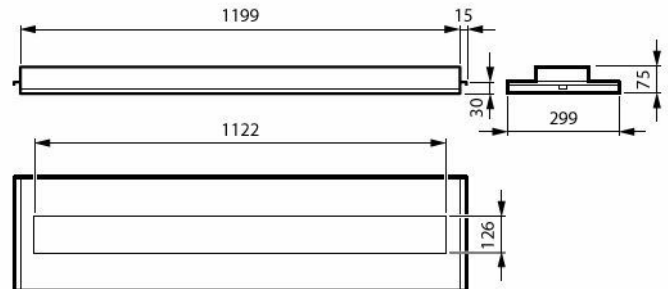


TrueBlend Recessed RC453B
DLO

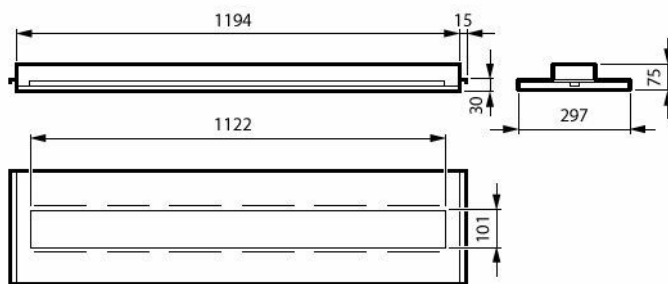
Dimensional drawing



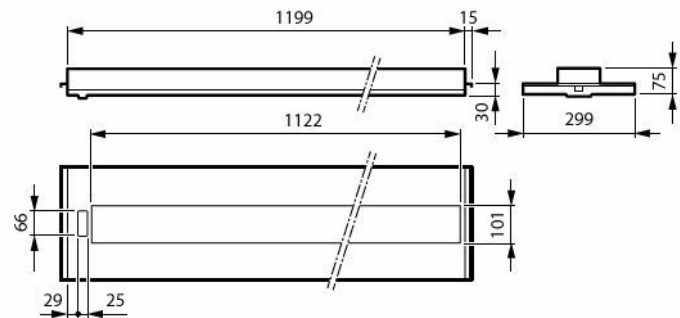
RC453B 28S/840 DLO L1200 W300 B30



RC453B 28S/UE840 MXO 9010 L1200 W300 B30



RC453X 28S/840 DLO L1195 W298 B30



RC453B 42S/940 DLO 9010 U4 L1200 W300B30

Product details



TrueBlend Recessed DLO-
optics DPP



TrueBlend Recessed U5
sensor



TrueBlend Recessed MXO-optics DPP



TrueBlend Recessed U4 sensor

General Information

Number of gear units	Unit
Driver included	Yes
Service Tag	Yes

Light Technical

Upwards light output ratio	0
Correlated Colour Temperature (Nom)	4000 K

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Protection class IEC	Safety class I

Controls and Dimming

Dimmable	Yes
Maximum dim level	1%

Mechanical and Housing

Housing Colour	White
Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK03 [0.3 J]

Emergency Operation

Central Emergency	Yes
Emergency lighting	DC operated central emergency lighting

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
Ambient temperature range	+10 to +35 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM ≤3.0

Product Data

Product family code	RC455B [TrueBlend Recessed Bandraster]
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General Information

Order Code	Full Product Name	Lamp family code
910505103978	RC453B 28S/UE840 MXO 9010 L1200 W300 B30	28S
910505103973	RC453B 42S/940 DLO 9010 U4 L1200 W300B30	42S
910505103984	RC453X 28S/840 DLO L1195 W298 B30	28S
910505103971	RC453B 28S/840 DLO L1200 W300 B30	28S
910505103975	RC453B 36S/940 DLO U5 L1200 W300 B30	34S

Light Technical

Order Code	Full Product Name	Luminous Flux	Luminous efficacy (rated) (nom.)	Colour rendering index (CRI)	Optic type
910505103978	RC453B 28S/UE840 MXO 9010 L1200 W300 B30	2,800 lm	144 lm/W	>80	Wide beam
910505103973	RC453B 42S/940 DLO 9010 U4 L1200 W300B30	4,200 lm	162 lm/W	>90	Wide beam office-compliant
910505103984	RC453X 28S/840 DLO L1195 W298 B30	2,800 lm	161 lm/W	>80	Wide beam office-compliant
910505103971	RC453B 28S/840 DLO L1200 W300 B30	2,800 lm	161 lm/W	>80	Wide beam office-compliant
910505103975	RC453B 36S/940 DLO U5 L1200 W300 B30	3,600 lm	160 lm/W	>90	Wide beam office-compliant

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Suitable for random switching
910505103978	RC453B 28S/UE840 MXO 9010 L1200 W300 B30	19.4 W	No
910505103973	RC453B 42S/940 DLO 9010 U4 L1200 W300B30	26 W	Yes
910505103984	RC453X 28S/840 DLO L1195 W298 B30	17.4 W	No
910505103971	RC453B 28S/840 DLO L1200 W300 B30	17.4 W	No
910505103975	RC453B 36S/940 DLO U5 L1200 W300 B30	22.5 W	Yes

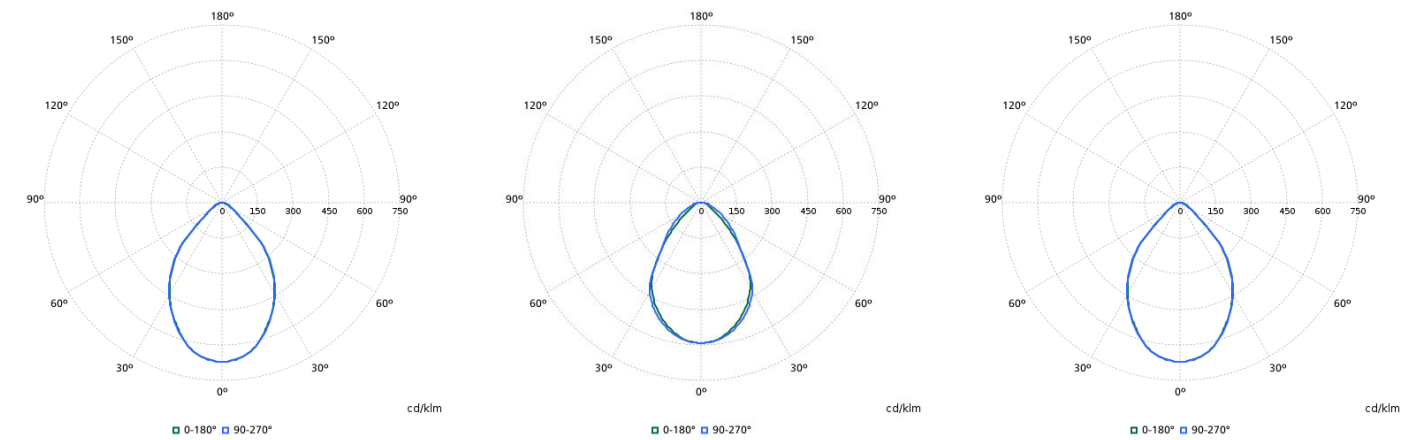
Controls and Dimming

Order Code	Full Product Name	Embedded control
910505103978	RC453B 28S/UE840 MXO 9010 L1200 W300 B30	-
910505103973	RC453B 42S/940 DLO 9010 U4 L1200 W300B30	Upgradable sensor slot with SC200 sensor
910505103984	RC453X 28S/840 DLO L1195 W298 B30	-
910505103971	RC453B 28S/840 DLO L1200 W300 B30	-
910505103975	RC453B 36S/940 DLO U5 L1200 W300 B30	Interact SC1500 Multi-sensor bundle

Mechanical and Housing

Order Code	Full Product Name	Optical cover type
910505103978	RC453B 28S/UE840 MXO 9010 L1200 W300 B30	Micro Hexagonal Optic
910505103973	RC453B 42S/940 DLO 9010 U4 L1200 W300B30	Acrylic bowl/cover frosted
910505103984	RC453X 28S/840 DLO L1195 W298 B30	Acrylic bowl/cover frosted
910505103971	RC453B 28S/840 DLO L1200 W300 B30	Acrylic bowl/cover frosted
910505103975	RC453B 36S/940 DLO U5 L1200 W300 B30	Acrylic bowl/cover frosted

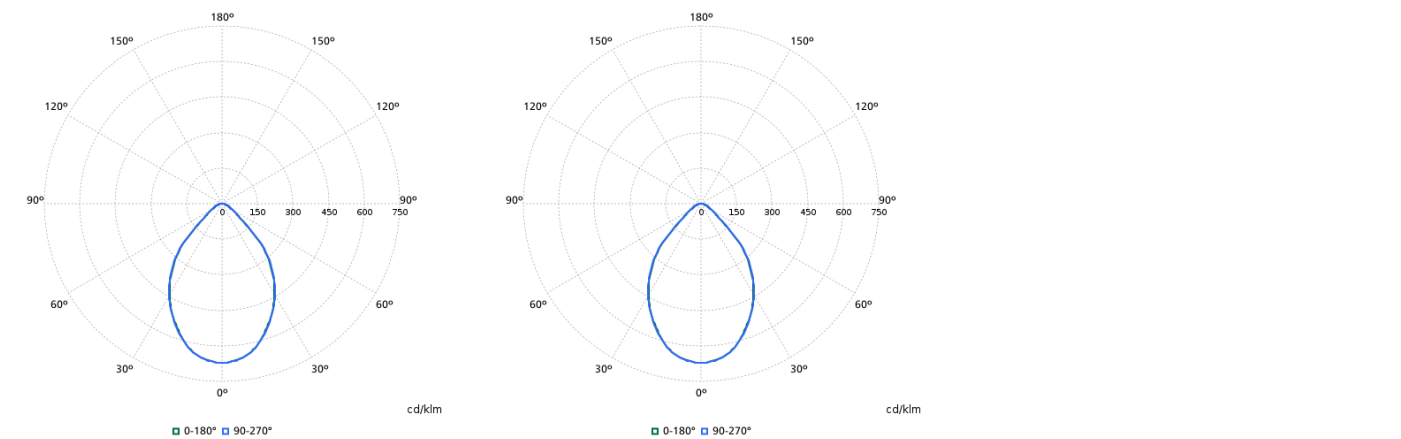
Polar normal diagrams



RC450BI - 910505103973

RC450BI - 910505103978

RC450BI - 910505103971



RC450BI - 910505103984

RC450BI - 910505103975

