



# TrueBlend Recessed

## RC455B 28S/940 MLO L1200 W100 B40 SC

TrueBlend Recessed, 29 W, 1200X100 mm, B40, 2800 lm, 4000 K, CRI>90, UGR19, TP(b), EL-DC

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 & 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 & 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 colors, various bracket height, 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 reparability that promises a long lifetime. They are also designed for recyclability, making them a truly circular, green choice. So, TrueBlend is an all-in-one solution with superior lighting specifications combined with sustainable approach to high-performance office 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.

### Product data

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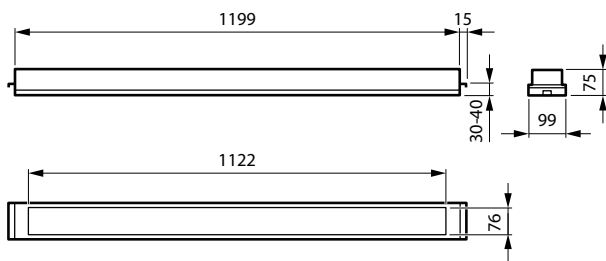
General Information	
Number of gear units	1 unit
Driver included	Yes
Value ladder	Specification
Warranty period	5 years
Light Technical	
Luminous Flux	2,800 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	97 lm/W
Color rendering index (CRI)	>90
Beam angle of light source	72 degree(s)
Light source color	940 neutral white
Optic type	Wide beam office compliant
Luminaire light beam spread	76° x 74°
Unified glare rating CEN	19
Indirect glare reduction measure for Display Screen Equipment (EN 12464-2021)	L65≤3000 cd/m²
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	350 A
Inrush time	5,000 ms
Power Consumption	29 W
Power Factor (Fraction)	0.9
Connection	Push-in connector 5-pole
Cable	-
Number of products on MCB of 16 A type B	21
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%
Mechanical and Housing	
Housing Material	Steel
Reflector material	Steel
Optic material	Polymethyl methacrylate
Optical cover material	Polymethyl methacrylate
Fixation material	-
Housing Color	White
Optical cover finish	Micro-lens optic
Reflector Finish	White reflector

Overall length	1,200 mm
Overall width	100 mm
Overall height	70 mm
Dimensions (Height x Width x Depth)	70 x 100 x 1200 mm
Compatible ceiling or ceiling installation accessory type	Bandraster ceiling version
Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK03 [0.3 J]
Mounting	Mounting bracket - fixed height 40 mm - For T/Omega profiles
Safety device	SC [Safety cable]
Net Weight (Piece)	4.930 kg
Emergency Operation	
Central Emergency	Yes
Emergency lighting	DC operated central emergency lighting
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
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
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%
Standard Deviation of Colour Matching (McAdam ellipse)	SDCM≤3
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

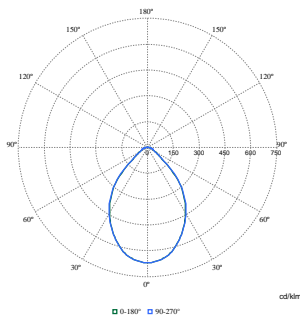
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<b>Repair class</b>	Repair Class C, the driver of this luminaire can be replaced by a service technician.	<b>Full product code</b>	872016963366700
	Special care is required during disassembly and reassembly, and specific tools may be required. Parts and documentation are available for a period of time.	<b>Order code</b>	910505105903
<b>Product Data</b>		<b>Material Nr. (12NC)</b>	910505105903
<b>Order product name</b>	RC455B 28S/940 MLO L1200 W100 B40 SC	<b>Numerator - Quantity Per Pack</b>	1
<b>Full product name</b>	RC455B 28S/940 MLO L1200 W100 B40 SC	<b>EAN/UPC - Product/Case</b>	8720169633667
		<b>Numerator - Packs per outer box</b>	1
		<b>EAN/UPC - Case</b>	8720169633667
		<b>Product family code</b>	RC455B [TrueBlend Recessed Bandrastrer]

### Dimensional drawing



### Photometric data



Polar Normal (separate) - RC450BI - 910505105903

