PowerBalance gen2

RC461B LED40S/940 PSD W60L60 VPC ELD3 P

RC461B | PowerBalance recessed - LED40S | LED module, system flux 4000 lm - 940 neutral white - Power supply unit with DALI interface - Push-in connector and pull relief - -

When it comes to lighting office spaces with LED luminaires, businesses are willing to invest in sustainability, provided they get a payback on their investment. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. Philips PowerBalance Gen2 is our most energy-efficient, office-compliant LED luminaire. Designed for circularity and enhanced wellbeing, this office luminaire also promises future-proof connectivity. State-of-the-art efficacy (at CRI <gt/>90), upgradability features, a long lifetime, repairability, and design for recyclability make PowerBalance Gen2 a true 'green choice'. One that also delivers significantly lower operational costs to ensure an attractive payback that meets the needs of businesses and the specification market. The Gen2 architecture in the latest PowerBalance range has enabled us to create a range of highly-versatile modular and semi-modular luminaires. These LED luminaires can be easily mounted in ceilings with an exposed T-bar or concealed T-bar, as well as plaster ceilings and bandraster-type ceilings. PowerBalance is a solution with superior lighting specifications combined with a best-in-class connectivity using Interact Pro - all with a sustainable approach to high-performance office lighting.

Warnings and Safety
- The product is IPX0 and, as such, is not protected against water ingress. Therefore we strongly recommend that the environment in which the luminaire is to be installed should be suitably checked
- If the advice above 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

PowerBalance gen2

General Information

Lamp family code	LED40S [LED module, system flux 4000 lm]
Light source replaceable	No
Number of gear units	1 unit
Gear	–
Driver included	Yes
Service tag	Yes
Product family code	RC461B [PowerBalance recessed]
Lighting Technology	LED
Value ladder	Specification

Light Technical

Luminous Flux	4,000 lumen
Saturated Red (R9)	>50
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	143 lm/W
Color rendering index (CRI)	≥90
Flickering value (PstLM)	1
Stroboscopic effect value (SVM)	0.4
Number of light sources	1
Beam angle of light source	120 degree(s)
Light source color	940 neutral white
Optic type	Wide beam office compliant
Optical cover/lens type	Polycarbonate bowl/cover
Luminaire light beam spread	86°
Unified glare rating CEN	16

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Inrush current	19.4 A
Inrush time	0.230 ms
Power Consumption	28 W
Power Factor (Fraction)	0.9
Connection	Push-in connector and pull relief
Cable	–
Number of products on MCB of 16 A type B	30

Temperature

Ambient temperature range	+10 to +40 ℃

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	No

Mechanical and Housing

Housing Material	Steel

Mechanical and Housing (continued)

Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	–
Housing Color	White RAL 9003
Optical cover/lens finish	Matte
Overall length	597 mm
Overall width	597 mm
Overall height	86 mm
Dimensions (Height x Width x Depth)	86 x 597 x 597 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected, Emitting surface]
Mech. impact protection code	IK02 [0.2 J standard]
Sustainability rating	Lighting for circularity Lighting for wellbeing
Protection class IEC	Safety class I
Glow-wire test	Temperature 850 ℃, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
CE mark	Yes
ENEC mark	ENEC mark
Warranty period	5 years
Photobiological risk	Photobiological risk group 1 @200mm to EN62778
EU RoHS compliant	Yes

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM <3
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

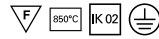|	
Control gear failure rate at median useful life 50000 h	5 %
Lumen maintenance at median useful life* 50000 h	L90
Lumen maintenance at median useful life* 100000 h	L75

Application Conditions

Performance ambient temperature Tq	25 ℃
Maximum dim level	1%
Suitable for random switching	No

Product Data

Full product code	871869996458000
Order product name	RC461B LED40S/940 PSD W60L60 VPC ELD3 P
Order code	910505100252
Numerator – Quantity Per Pack	1

PowerBalance gen2

Numerator – Packs per outer box	1
Material number (12NC)	910505100252
Full product name	RC461B LED40S/940 PSD W60L60 VPC ELD3 P

EAN/UPC – Case	8718699964580

F 850°C IK 02 ⏚

Dimensional drawing

www.lighting.philips.com

2023, May 22 – data subject to change