



PowerBalance gen2

RC461B G2 LED34S/840 PSD W60L60 PCV PIP

PowerBalance recessed - Generation 2 - LED Module, system flux 3400 lm - 840 neutral white - Power supply unit with DALI interface - Width 0.60 m, length 0.60 m - Plaster ceiling version - Push-in connector and pull relief

When it comes to lighting an office space with LED luminaires, people are usually willing to invest in sustainability provided the investment pays back. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. PowerBalance gen2 is Philips' most energy-efficient office-norm-compliant LED luminaire. It more than halves energy costs compared to a T5 solution, and the light source has a longer lifetime. This results in significantly lower operational costs, ensuring a payback that meets the needs of the specification market. The gen2 architecture enables a range of highly versatile modular and semi-modular luminaires. These luminaires can be easily mounted in ceilings with exposed T-bar and concealed T-bar, as well as plaster ceilings and bandraaster-type ceilings. PowerBalance is also available in a surface-mounted version.

Product data

General Information	
Number of light sources	1 [1 pc]
Lamp family code	LED34S [LED Module, system flux 3400 lm]
Light source colour	840 neutral white
Cap base	- [-]
Light source replaceable	No
Number of gear units	1 unit
Gear	-
Driver/power unit/transformer	PSD [Power supply unit with DALI interface]
Driver included	Yes

Optic type	No [-]
Optical cover/lens type	PC [Polycarbonate bowl/cover]
Luminaire light beam spread	86°
Emergency lighting	No [-]
Embedded control	No [-]
Control interface	DALI
Connection	PIP [Push-in connector and pull relief]
Cable	-
Protection class IEC	Safety class I (I)
Air handling	No [-]

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Glow-wire test	850/5 [Temperature 850 °C, duration 5 s]
Flammability mark	F [For mounting on normally flammable surfaces]
Safety bracket	-
Safety device	No [-]
CE mark	CE mark
ENEC mark	ENEC plus mark
UL mark	-
Design award-winner marking	Design Award Winner 2015
Red Dot Design Award winner mark	Reddot Design Award Winner 2015
Warranty period	5 years
Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value.
Constant light output	No
Number of products on MCB	20
RoHS mark	RoHS mark
Accessory PFC	N/A
Product Family Code	RC461B [PowerBalance recessed]
Unified glare rating CEN	16

Operating and Electrical

Input voltage	220-240 V
Input frequency	50 to 60 Hz
Control signal voltage	0-16 V DC DALI
Inrush current	5 A
Inrush time	1 ms
Power factor (min.)	0.9

Controls and Dimming

Dimmable	Yes
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Mechanical and Housing

Geometry	W60L60 [Width 0.60 m, length 0.60 m]
Housing configuration	PCV [Plaster ceiling version]
Housing material	Steel
Reflector material	Polycarbonate
Optic material	-
Optical cover/lens material	Polycarbonate
Gear tray material	Steel
Fixation material	-

Optical cover/lens finish	Matte
Overall length	597 mm
Overall width	597 mm
Overall height	86 mm

Approval and Application

Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK02 [0.2 J standard]

Initial Performance (IEC Compliant)

Initial luminous flux	3400 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	142 lm/W
Init. Corr. colour temperature	4000 K
Init. colour rendering index	≥80
Initial chromaticity	(0.38, 0.38) SDCM <3
Initial input power	24 W
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

Application Conditions

Ambient temperature range	+10 to +40 °C
Performance ambient temperature Tq	25 °C
Maximum dimming level	1%
Suitable for random switching	No

Product Data

Full product code	871829127203800
Order product name	RC461B G2 LED34S/840 PSD W60L60 PCV PIP
EAN/UPC – product	8718291272038
Order code	27203800
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (I2NC)	910502012103
Net weight (piece)	4.900 kg

