

PowerBalance gen2

RC461B G2 LED34S/840 PSD W60L60 VPC ELP3

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 – Visible profile ceiling version – Emergency lighting 3 hours duration Pro 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.

Product data

General Information			
Number of light sources	1 [1 pc]	Driver included	Yes
Lamp family code	LED34S [LED Module, system flux 3400 lm]	Optic type	No [-]
Light source colour	840 neutral white	Optical cover/lens type	PC [Polycarbonate bowl/cover]
Cap base	- [-]	Luminaire light beam spread	86°
Light source replaceable	No	Emergency lighting	Emergency lighting 3 hours duration Pro version
Number of gear units	1 unit	Embedded control	No [-]
Gear	-	Control interface	DALI
Driver/power unit/transformer	PSD [Power supply unit with DALI interface]	Connection	Push-in connector and pull relief

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Cable	-
Protection class IEC	Safety class I
Air handling	No [-]
Glow-wire test	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	No
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	Width 0.60 m, length 0.60 m
Housing configuration	VPC [Visible profile 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	Matt
Overall length	597 mm
Overall width	597 mm
Overall height	86 mm
Colour	White RAL 9003

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	121 lm/W
Init. Corr. colour temperature	4000 K
Init. colour rendering index	≥80
Initial chromaticity	(0.38, 0.38) SDCM <3
Initial input power	28 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

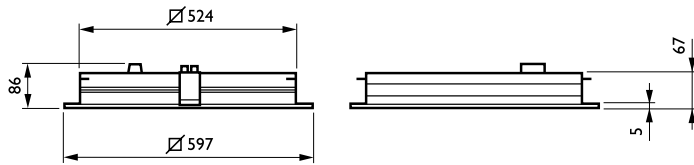
Ambient temperature range	+10 to +40 °C
Performance ambient temperature Tq	25 °C
Maximum dimming level	1%
Suitable for random switching	No

Product Data

Full product code	871869687546900
Order product name	RC461B G2 LED34S/840 PSD W60L60 VPC ELP3
EAN/UPC – product	8718696875469
Order code	87546900
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (12NC)	910502050103
Net weight (piece)	5.300 kg

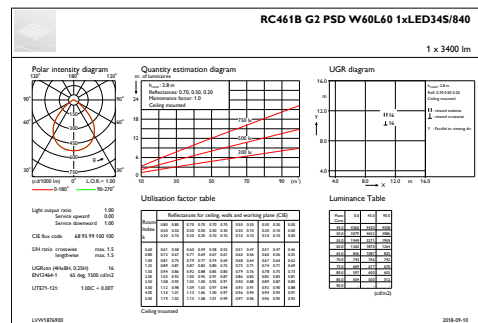
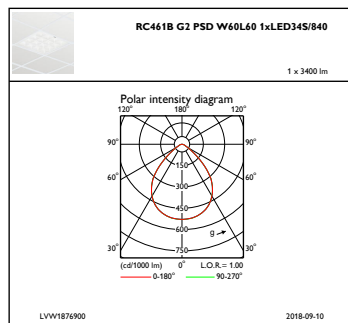
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Dimensional drawing



PowerBalance RC460B-RC468B

Photometric data



IFPC1_RC461BG2PSDW60L601xLED34S840

IFGU1_RC461BG2PSDW60L601xLED34S840

