PHILIPS Lighting



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, 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 bandraster-type ceilings. PowerBalance is also available in a surface-mounted version.

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 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

General Information		Gear	-
Lamp family code	LED34S [LED module, system flux 3400 lm]	Driver included	Yes
Cap-Base	- [-]	Remarks	*-Per Lighting Europe guidance paper
Light source replaceable	No		"Evaluating performance of LED based
Number of gear units	1 unit		luminaires - January 2018": statistically there

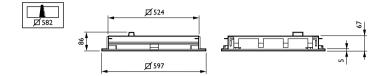
PowerBalance gen2

	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.
Service tag	Yes
Product family code	RC461B [PowerBalance recessed]
Lighting Technology	LED
Value ladder	Specification
Embedded control	-
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on normally flammable
	surfaces
ENEC mark	ENEC plus mark
Glow-wire test	Temperature 850 °C, duration 5 s
EU RoHS compliant	Yes
Light Technical	
Luminous Flux	3,400 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	142 lm/W
Color rendering index (CRI)	≥80
Number of light sources	1
Light source color	840 neutral white
Optic type	-
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	86°
Unified glare rating CEN	16
Operating and Electrical	
Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Inrush current	5 A
Inrush time	1 ms
Power Consumption	24 W
Power Factor (Fraction)	0.9
Connection	Push-in connector and pull relief
Cable	-
Number of products on MCB of 16 A type	20
B	20
Temperature	
	+10 to +40 °C
Ambient temperature range	+10 to +40 °C
Controls and Dimming	
	Vec
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
Reflector material	Polycarbonate
Optic material	-
Optical cover material	Polycarbonate
Fixation material	-
Housing Color	White RAL 9003
Optical cover 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 [Finger-protected]
Mech. impact protection code	IK02 [0.2 J standard]
Protection class IEC	Safety class I
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM <3
Power consumption tolerance	+/-10%
Over Time Performance (IEC Compl	ant)
Control gear failure rate at median useful	5 %
life 50000 h	
Lumen maintenance at median useful life	L90
50000 h	
50000 h	
50000 h Application Conditions	
	25 °C
Application Conditions	25 °C 1%
Application Conditions Performance ambient temperature Tq	
Application Conditions Performance ambient temperature Tq Maximum dim level	1%
Application Conditions Performance ambient temperature Tq Maximum dim level	1%
Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching	1%
Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data	1% No
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Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack	1% No RC461B G2 LED345/840 PSD W60L60 PCV PIP RC461B G2 LED345/840 PSD W60L60 PCV PIP 871829127203800 27203800 910502012103 1
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PowerBalance gen2

Dimensional drawing





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