



PowerBalance gen2

RC461B G2 LED40S/840 PSD W60L60 VPC W AI

PowerBalance recessed - Generation 2 - LED Module, system flux 4000 lm - 840 neutral white - Power supply unit with DALI interface - Width 0.60 m, length 0.60 m - Visible profile ceiling version - Plug-in connector 3-pole Wieland/Adels compatible - Suitable for air-handling

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

Product data

General Information			
Number of light sources	1 pc	Driver included	Yes
Lamp family code	LED40S [LED Module, system flux 4000 lm]	Optic type	-
Light source color	840 neutral white	Optical cover/lens type	Polycarbonate bowl/cover
Cap-Base	- [-]	Luminaire light beam spread	86°
Light source replaceable	No	Emergency lighting	-
Number of gear units	1 unit	Embedded control	-
Gear	-	Control interface	DALI
Driver/power unit/transformer	Power supply unit with DALI interface	Connection	Plug-in connector 3-pole Wieland/Adels compatible

PowerBalance gen2

Cable	-
Protection class IEC	Safety class I
Air-handling	Suitable for air-handling
Glow-wire test	Temperature 850 °C, duration 5 s
Flammability mark	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 mark	Design Award Winner 2015
Reddot 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 of 16 A type B	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	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	Matte
Overall length	597 mm
Overall width	597 mm
Overall height	86 mm
Color	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 (system flux)	4000 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	133 lm/W
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥80
Initial chromaticity	(0.38, 0.38) SDCM <3
Initial input power	30 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 dim level	1%
Suitable for random switching	No

Product Data

Full product code	871829127522000
Order product name	RC461B G2 LED40S/840 PSD W60L60 VPC W AI
EAN/UPC - Product	8718291275220
Order code	910502017803
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	910502017803
Net Weight (Piece)	4.700 kg
QuickShip	-

