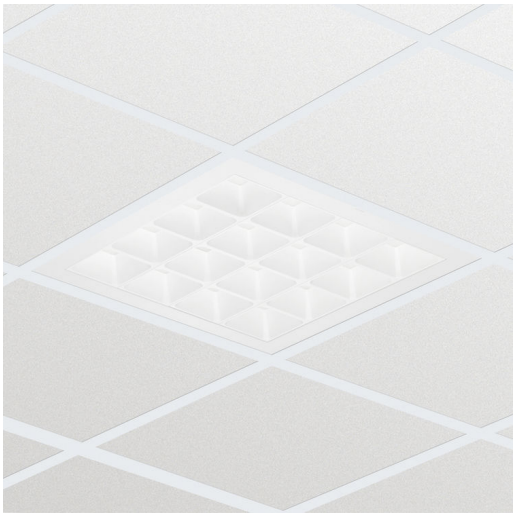


PowerBalance gen2

RC463B G2 LED34S/840 PSD W62L62 VPC W

PowerBalance recessed - Generation 2 - LED Module, system flux 3400 lm - 840 neutral white - Power supply unit with DALI interface - Width 0.62 m, length 0.62 m - Visible profile ceiling version - Plug-in connector 3-pole Wieland/Adels compatible

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.

Product data

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

Optic type	-
Optical cover/lens type	Polycarbonate bowl/cover
Luminaire light beam spread	86°
Emergency lighting	-
Embedded control	-
Control interface	DALI
Connection	Plug-in connector 3-pole Wieland/Adels compatible
Cable	-
Protection class IEC	Safety class I

PowerBalance gen2

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	RC463B [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

Mechanical and Housing

Geometry	Width 0.62 m, length 0.62 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	622 mm
Overall width	622 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)	3400 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	142 lm/W
Init. Corr. Color Temperature	4000 K
Init. Color 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

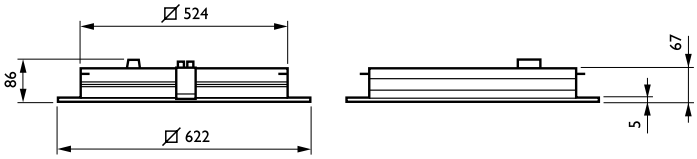
Ambient temperature range	+10 to +40 °C
Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	No

Product Data

Full product code	871829126513900
Order product name	RC463B G2 LED34S/840 PSD W62L62 VPC W
EAN/UPC - Product	8718291265139
Order code	910502005703
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	910502005703
Net Weight (Piece)	4.900 kg
QuickShip	-

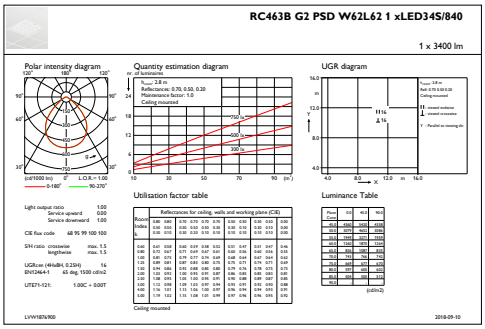
PowerBalance gen2

Dimensional drawing



PowerBalance RC460B-RC468B

Photometric data



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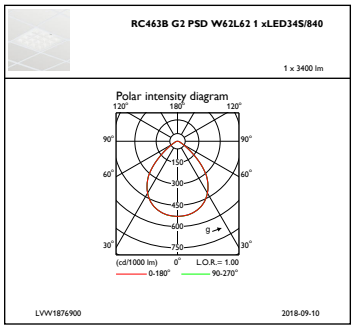

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