PHILIPS Lighting



PowerBalance gen2

RC461B G2 LED34S/840 PSD W30LEXT VPC ACL

PowerBalance recessed, Generation 2, LED module, system flux 3400 lm, 840 neutral white, Power supply unit with DALI interface, ActiLume

When it comes to lighting office spaces with LED luminaires, businesses are willing to invest in sustainability, provided they get a payback on their investment. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. Philips PowerBalance Gen2 is our most energyefficient, office-compliant LED luminaire. Designed for circularity and enhanced wellbeing, this office luminaire also promises future-proof connectivity. State-ofthe-art efficacy (at CRI <gt/>90), upgradability features, a long lifetime, repairability, and design for recyclability make PowerBalance Gen2 a true 'green choice'. One that also delivers significantly lower operational costs to ensure an attractive payback that meets the needs of businesses and the specification market. The Gen2 architecture in the latest PowerBalance range has enabled us to create a range of highly-versatile modular and semi-modular luminaires. These LED luminaires can be easily mounted in ceilings with an exposed T-bar or concealed T-bar, as well as plaster ceilings and bandraster-type ceilings. PowerBalance is a solution with superior lighting specifications combined with a best-in-class connectivity designed for Circularity & enhanced Wellbeing using Interact Pro - all with a sustainable approach to high-performance office lighting.

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

PowerBalance gen2

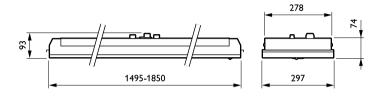
General Information	
Lamp family code	LED34S [LED module, system flux 3400 lm]
Cap-Base	- [-]
Light source replaceable	No
Number of gear units	1 unit
Driver included	Yes
Remarks	*-Per Lighting Europe guidance paper
	"Evaluating performance of LED based
	luminaires - January 2018": statistically there
	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.
Service tag	Yes
Product family code	RC461B [PowerBalance recessed]
Lighting Technology	LED
Value ladder	Specification
Embedded control	ActiLume
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)	136 lm/W
Color rendering index (CRI)	≥80
Number of light sources	1
Light source color	840 neutral white
Optic type	-
Luminaire light beam spread	86°
Unified glare rating CEN	16
	lβ
Operating and Electrical	
Operating and Electrical Input Voltage	220-240 V
Operating and Electrical Input Voltage Line Frequency	220-240 V 50 to 60 Hz
Operating and Electrical Input Voltage Line Frequency Inrush current	220-240 V 50 to 60 Hz 5 A
Operating and Electrical Input Voltage Line Frequency Inrush current Inrush time	220-240 V 50 to 60 Hz 5 A 1 ms
Operating and Electrical Input Voltage Line Frequency Inrush current Inrush time Power Consumption	220-240 V 50 to 60 Hz 5 A 1 ms 25 W
Operating and Electrical Input Voltage Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction)	220-240 V 50 to 60 Hz 5 A 1 ms 25 W 0.9
Operating and Electrical Input Voltage Line Frequency Inrush current Inrush time Power Consumption	220-240 V 50 to 60 Hz 5 A 1 ms 25 W 0.9 Plug-in connector 3-pole Wieland/Adels
Operating and Electrical Input Voltage Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection	220-240 V 50 to 60 Hz 5 A 1 ms 25 W 0.9
Operating and Electrical Input Voltage Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable	220-240 V 50 to 60 Hz 5 A 1 ms 25 W 0.9 Plug-in connector 3-pole Wieland/Adels compatible -
Operating and Electrical Input Voltage Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection	220-240 V 50 to 60 Hz 5 A 1 ms 25 W 0.9 Plug-in connector 3-pole Wieland/Adels

Temperature	
Ambient temperature range	+10 to +40 °C
Controls and Dimming	
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
Optical cover finish	Matte
Overall length	1,722 mm
Overall width	297 mm
Overall height	92 mm
Dimensions (Height x Width x Depth)	92 x 297 x 1722 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	liant)
Control gear failure rate at median useful	5%
life 50000 h	
Lumen maintenance at median useful	L90
life* 50000 h	
Application Conditions	
Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	Yes
Product Data	
Order product name	RC461B G2 LED34S/840 PSD W30LEXT VPC
Follows doct as a set	
Full product name	RC461B G2 LED34S/840 PSD W30LEXT VPC
	ACL
Full product code	871829127548000
Order code	910502020203
Material Nr. (12NC)	910502020203
Numerator - Quantity Per Pack	1

PowerBalance gen2

EAN/UPC - Product/Case	8718291275480
Numerator - Packs per outer box	1
EAN/UPC - Case	8718291275480

Dimensional drawing





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