PHILIPS Lighting



PowerBalance gen2

RC415B G2 LED20S/840 PSD W15L125 VPC W

PowerBalance recessed, Generation 2, LED Module, system flux 2000 lm, 840 neutral white, Power supply unit with DALI interface, 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.

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	LED20S [LED Module, system flux 2000 lm]	Driver included
Cap-Base	- [-]	Remarks
Light source replaceable	No	
Number of gear units	1 unit	

Gear	-
Driver included	Yes
Remarks	*-Per Lighting Europe guidance paper
	"Evaluating performance of LED based
	luminaires - January 2018": statistically there

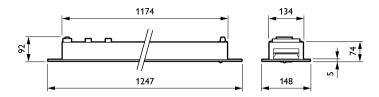
PowerBalance gen2

	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	RC415B [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	2,000 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	130 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	21 A
Inrush time	0.255 ms
Power Consumption	16.5 W
Power Factor (Fraction)	0.9
Connection	Plug-in connector 3-pole Wieland/Adels
	compatible
Cable	-
Number of products on MCB of 16 A type	20
В	
Temperature	
Ambient temperature range	+10 to +40 °C
Controls and Dimming	
Dimmable	Yes
Driver/power unit/transformer	Yes Power supply unit with DALI interface DALI
	Power supply unit with DALI interface

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	1,247 mm
Overall width	148 mm
Overall height	95 mm
Dimensions (Height x Width x Depth)	95 x 148 x 1247 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 Comp	liant)
Control gear failure rate at median usefu	ıl 5%
life 50000 h	
Lumen maintenance at median useful	L90
life* 50000 h	
Application Conditions	
Performance ambient temperature Tq	25 ℃
Maximum dim level	1%
Suitable for random switching	No
Product Data	
Product Data Order product name	RC415B G2 LED20S/840 PSD W15L125 VPC
	RC415B G2 LED20S/840 PSD W15L125 VPC W
Order product name	W
Order product name Full product name	W RC415B G2 LED20S/840 PSD W15L125 VPC
Order product name	W RC415B G2 LED20S/840 PSD W15L125 VPC W
Order product name Full product name Full product code	W RC415B G2 LED20S/840 PSD W15L125 VPC W 871794310286000
Order product name Full product name Full product code Order code	W RC415B G2 LED20S/840 PSD W15L125 VPC W 871794310286000 10286000
Order product name Full product name Full product code Order code Material Nr. (12NC)	W RC415B G2 LED20S/840 PSD W15L125 VPC W 871794310286000 10286000 910502009503
Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack	W RC415B G2 LED20S/840 PSD W15L125 VPC W 871794310286000 10286000 910502009503 1

PowerBalance gen2

Dimensional drawing





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