PHILIPS Lighting



PowerBalance gen2

RC463B G2 LED40S/830 PSD W31L125 VPC PIP

PowerBalance recessed, Generation 2, LED module, system flux 4000 lm, 830 warm white, Power supply unit with DALI interface, Push-in connector and pull relief

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

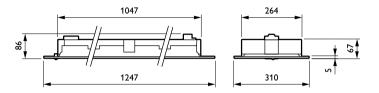
Lamp family code	
	LED40S [LED module, system flux 4000 lm]
Cap-Base	- [-]
Light source replaceable	No
Number of gear units	1 unit
Gear	E [Empty, without gear]
Driver included	Yes
Remarks	*-Per Lighting Europe guidance paper
	"Evaluating performance of LED based
	luminaires - January 2018": statistically 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	RC463B [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
	163
Light Technical	
Luminous Flux	4,000 lm
Saturated Red (R9)	>50
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	133 lm/W
	≥80
Color rendering index (CRI) Number of light sources	1
	830 warm white
Light source color	830 warm white
Optic type	-
Luminaire light beam spread	86°
Unified glare rating CEN	16
Operating and Electrical	
Operating and Electrical	220.240.1/
Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Inrush current	5 A
Inrush time	1 ms
Power Consumption	30 W
Power Factor (Fraction)	0.9
Connection	Push-in connector and pull relief
Cable	-
	1
Number of products on MCB of 16 A type	20

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 RAL 9003
Optical cover finish	Matte
Overall length	1.247 mm
Overall width	310 mm
Overall height	79 mm
Dimensions (Height x Width x Depth)	79 x 310 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	(0.43, 0.40) SDCM <3
Power consumption tolerance	+/-10%
Over Time Performance (IEC Comp	liant)
Control gear failure rate at median usefu	1 5%
life 50000 h	
Lumen maintenance at median useful	L90
life* 50000 h	
Application Conditions	
Application Conditions Performance ambient temperature Tq	25 °C
	25 °C 1%
Performance ambient temperature Tq	
Performance ambient temperature Tq Maximum dim level	1%
Performance ambient temperature Tq Maximum dim level Suitable for random switching	1%
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data	1% No
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data	1% No
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name	1% No RC463B G2 LED40S/830 PSD W31L125 VPC PIP
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name	1% No RC463B G2 LED40S/830 PSD W31L125 VPC PIP
Performance ambient temperature Tq Maximum dim level	1% No RC463B G2 LED405/830 PSD W31L125 VPC PIP RC463B G2 LED40S/830 PSD W31L125 VPC
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name	1% No RC463B G2 LED40S/830 PSD W31L125 VPC PIP RC463B G2 LED40S/830 PSD W31L125 VPC PIP
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code	1% No RC463B G2 LED40S/830 PSD W31L125 VPC PIP RC463B G2 LED40S/830 PSD W31L125 VPC PIP 871869687048800

PowerBalance gen2

EAN/UPC - Product/Case	8718696870488
Numerator - Packs per outer box	1
EAN/UPC - Case	8718696870488

Dimensional drawing





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