

PowerBalance gen2

RC463B 80S/TW9 DEIA W31L125 VPC

PowerBalance gen2, 64 W, 310x1250 mm, VPC, 8000 lm, Tunable white 2700-6500 K, CRI>90, DALI, Interact Ready, UGR19

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 bandraaster-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		Lighting Technology	LED
Light source replaceable	No	Value ladder	Specification
Number of gear units	1 unit	Serviceability class	Class B, luminaire is equipped with some serviceable parts (when applicable): driver, control units, surge
Driver included	Yes		
Service tag	Yes		

PowerBalance gen2

	protection device, front cover and mechanical parts
Warranty period	5 years
Sustainability rating	Lighting for wellbeing

Light Technical

Luminous Flux	8,000 lm
Saturated Red (R9)	>50
Correlated Color Temperature (Nom)	Tunable white 2700-6500 K
Luminous Efficacy (rated) (Nom)	122 lm/W
Color rendering index (CRI)	>90
Beam angle of light source	120 degree(s)
Light source color	LED color tunable white CRI90
Optic type	Wide beam office compliant
Luminaire light beam spread	86°
Unified glare rating CEN	19

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	29.6 A
Inrush time	0.356 ms
Power Consumption	64 W
Power Factor (Fraction)	0.9
Connection	Push-in connector and pull relief
Cable	-
Number of products on MCB of 16 A type B	16
Suitable for random switching	No
Protection class IEC	Safety class I
Feed-through wiring	-
Total harmonic distortion	20 %

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Dali dimming Interact System ready
Control interface	DALI
Constant light output	No
DALI Standard	D4i™ DALI-2™
Maximum dim level	1%
Connectivity	Interact Ready
Embedded control	-

Mechanical and Housing

Housing Material	Steel
Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover material	Polycarbonate
Fixation material	-
Housing Color	White
Optical cover finish	Opal
Reflector Finish	White reflector

Overall length	1,247 mm
Overall width	310 mm
Overall height	72 mm
Dimensions (Height x Width x Depth)	72 x 310 x 1247 mm
Compatible ceiling or ceiling installation accessory type	Visible profile ceiling version
Optical finish	Opal
Ingress protection code	IP20/40 [Finger-protected, Emitting surface]
Mech. impact protection code	IK03 [0.35 J reinforced]
Explosion hazard class	-
Mounting	Recessed
Net Weight (Piece)	5.800 kg

Emergency Operation

Central Emergency	No
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Approval and Application

Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
CE mark	Yes
ENEC mark	ENEC mark
Photobiological risk	Photobiological risk group 1 @200mm to EN62778
EU RoHS compliant	Yes
Performance ambient temperature Tq	25 °C
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	+10 to +35 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM ≤3
Power consumption tolerance	+/-10%
Standard Deviation of Colour Matching (McAdam ellipse)	SDCM≤3

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50000 h	2.5 %
Control gear failure rate at median useful life 100000 h	5 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L90
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L85

Product Data

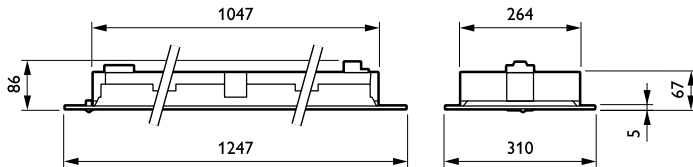
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Full product name	RC463B 80S/TW9 DEIA W31L125 VPC

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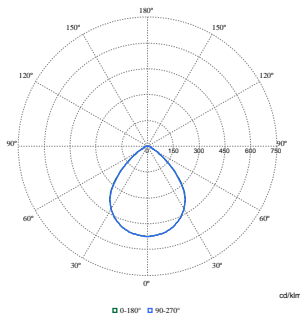
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Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699979881

Numerator - Packs per outer box	1
EAN/UPC - Case	8718699979881
Product family code	RC463B [PowerBalance recessed]

Dimensional drawing



Photometric data



Polar Normal (separate) - RC460BP - 910505101668

