



PowerBalance gen2 – sustainable performance

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 bandrastrer-type ceilings. PowerBalance is also available in a surface-mounted version.

Benefits

- Extremely efficient office-norm-compliant LED luminaire
- Good-quality lighting solution for direct replacement of T5 luminaires in most indoor applications
- Significantly reduces operational costs, resulting in an attractive payback time

Applications

- Offices
- Other indoor applications

Features

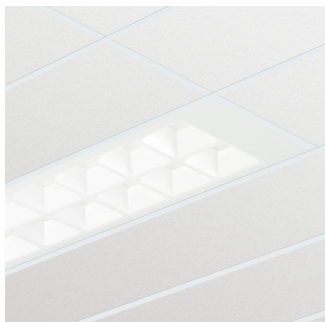
- Variety of mounting options
- Advanced LED technology
- Available in different shapes and sizes
- Office-norm-compliant

- The product is IP20 and, as such, is not protected against water ingress. Therefore we strongly recommend that the

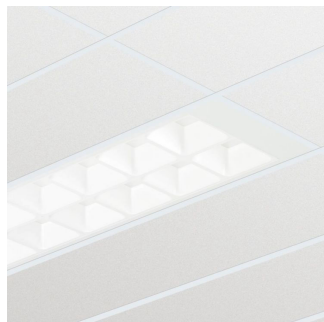
environment in which the luminaire is to be installed should be suitably checked

- 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

Versions

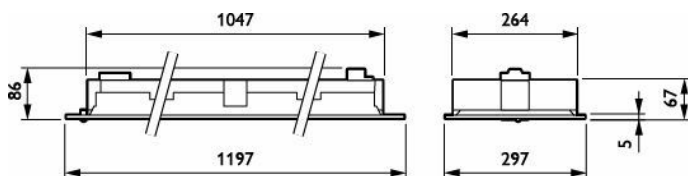


IPPR RC460Bi 0069

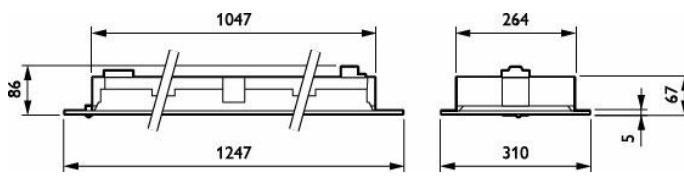


IPPR_RC460Bi_0065-Product photo

Dimensional drawing



PowerBalance recessed - Tunable white - Power supply unit with DALI interface - Push-in connector and pull relief - -



PowerBalance recessed - Tunable white - Power supply unit with DALI interface - Push-in connector and pull relief - -

General Information

Light source replaceable	No
Number of gear units	1 unit
Driver included	Yes
Service tag	Yes

Light Technical

Luminous Flux	8,000 lm
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)
Optic type	Wide beam office compliant

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Power Consumption	64 W
Suitable for random switching	No
Protection class IEC	Safety class I

Controls and Dimming

Dimmable	Yes
Maximum dim level	1%
Embedded control	-

Mechanical and Housing

Housing Color	White
Ingress protection code	IP20/40 [Finger-protected, Emitting surface]
Mech. impact protection code	IK03 [0.35 J reinforced]
Explosion hazard class	-

Emergency Operation

Central Emergency	Yes
Emergency lighting	DC operated central emergency lighting

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
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

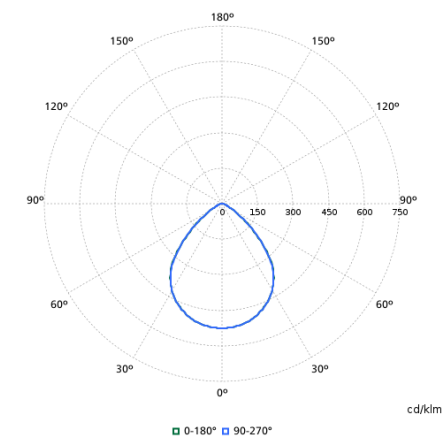
Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM ≤3

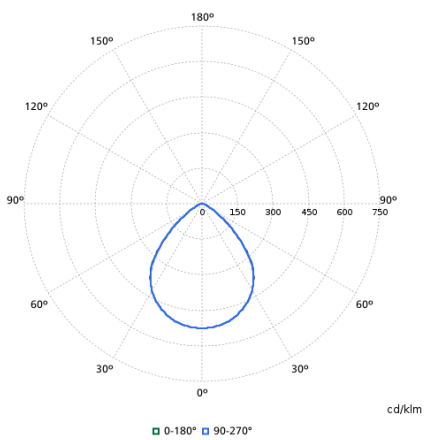
Product Data

Order Code	Full Product Name	Product family code
97988100	RC463B 80S/TW9 DEIA W31L125 VPC	RC463B
97986700	RC461B 80S/TW9 DEIA W30L120 VPC	RC461B

Polar normal diagrams



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