PHILIPS

Lighting

PowerBalance gen2 – sustainable performance

PowerBalance gen2

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.

Benefits

- Extremely efficient office-norm-compliant LED luminaire
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- Good-quality lighting solution for direct replacement of T5 luminaires in most indoor applications
- Good-quality lighting solution for direct replacement of T5 luminaires in most indoor applications
- Significantly reduces operational costs, resulting in an attractive payback time
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PowerBalance gen2

Features

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

Application

- Offices
- Offices
- Other indoor applications
- Other indoor applications

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

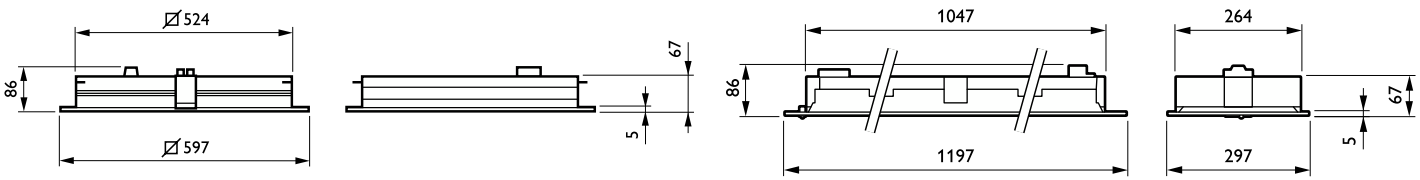
Versions

PowerBalance Square- 16cup

IPPR RC460Bi 0047

IPPR_RC460Bi_0065-Product photo

Dimensional drawing



Product details

PowerBalance SC200 DPP

PowerBalance SC200 DPP

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

Light Technical	
Beam angle of light source	120 degree(s)
Optic type	Wide beam office compliant

Operating and Electrical	
Protection class IEC	Safety class I
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz

Controls and Dimming	
Dimmable	Yes
Maximum dim level	1%

Mechanical and Housing	
Explosion hazard class	-
Housing Color	White
Mech. impact protection code	IK03
Ingress protection code	IP20/40

Emergency Operation	
Central Emergency	No
Emergency lighting	-

Approval and Application	
Ambient temperature range	+10 to +35 °C
CE mark	Yes
ENEC mark	ENEC mark
Flammability mark	For mounting on normally flammable surfaces
Glow-wire test	Temperature 650 °C, duration 30 s
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4

Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%

Product Data	
Product family code	RC461B

Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)	Luminous Flux
910505103383	RC461B 80S/TW9 SIA W60L60 VPC U4	Tunable white 2700-6500 K	≥90	122 lm/W	8,000 lm
910505101682	RC461B 28S/BU840 PSD W60L60 VPC	4000 K	≥80	129 lm/W	2,800 lm
910505101666	RC461B 80S/TW9 DIA W30L120 VPC	Tunable white 2700-6500 K	≥90	122 lm/W	8,000 lm

Operating and Electrical

PowerBalance gen2

Order Code	Full Product Name	Power Consumption	Suitable for random switching
910505103383	RC461B 80S/TW9 SIA W60L60 VPC U4	64 W	Yes (relates to presence/ movement detection and daylight harvesting)

Order Code	Full Product Name	Power Consumption	Suitable for random switching
910505101682	RC461B 28S/BU840 PSD W60L60 VPC	23 W	No
910505101666	RC461B 80S/TW9 DIA W30L120 VPC	64 W	No

Controls and Dimming

Order Code	Full Product Name	Embedded control
910505103383	RC461B 80S/TW9 SIA W60L60 VPC U4	Upgradable sensor slot with SNS210 sensor

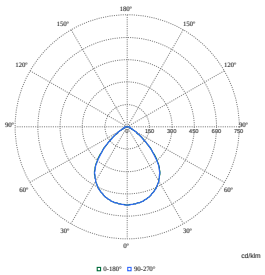
Order Code	Full Product Name	Embedded control
910505101682	RC461B 28S/BU840 PSD W60L60 VPC	-
910505101666	RC461B 80S/TW9 DIA W30L120 VPC	-

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
910505103383	RC461B 80S/TW9 SIA W60L60 VPC U4	Tunable, SDCM ≤3
910505101682	RC461B 28S/BU840 PSD W60L60 VPC	(0.38, 0.38) SDCM ≤3

Order Code	Full Product Name	Initial chromaticity
910505101666	RC461B 80S/TW9 DIA W30L120 VPC	(0.38, 0.38) SDCM ≤3

Polar Wide Diagrams



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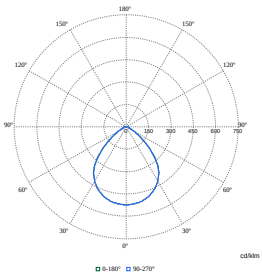

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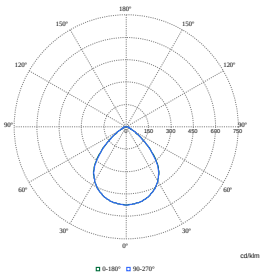

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