



Philips PowerBalance Gen2: sustainable performance

PowerBalance gen2

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 energy-efficient, office-compliant LED luminaire. Designed for circularity and enhanced well-being, this office luminaire also promises future-proof connectivity. State-of-the-art efficacy (at CRI >90), upgradability features, a long lifetime, reparability 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 bandrastrer-type ceilings. PowerBalance is a solution with superior lighting specifications combined with a best-in-class connectivity designed for circularity & enhanced well-being using Interact Pro — all with a sustainable approach to high-performance office lighting.

Benefits

- Extremely-efficient LED luminaire with up to 174 lm/W
- Complies with office norms
- Comfortable, glare-free light
- Significantly reduces operational costs for an attractive payback time
- A sustainable and best-in-class connected offer

Features

- Best-in-class efficacy up to 174 lm/W supports green building design and energy saving subsidy criteria
- 3000K, 4000K, Tunable White options with CRI >90
- Long lifetime 50,000 hours @L90
- Prepared for circularity (no glue, replaceable electronics, upgradable system, efficient and long lifetime)
- Environmental Product Declaration (EPD) guide
- A connected system ready with the Interact Pro scalable platform using integrated sensors and/or wireless drivers for data collection, occupancy, daylight regulation and wayfinding

Application

- Offices
- Education
- Healthcare

Warnings and Safety

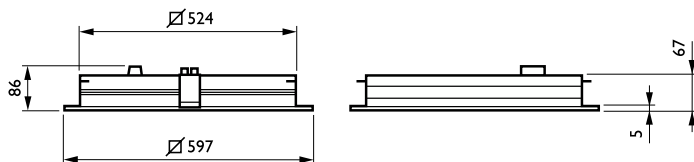
- The product is IP20 and, as such, is not protected against water ingress. Therefore, we strongly recommend that the environment in which the luminaire is to be installed should be suitably checked
- If the advice above is not taken and the luminaires are subject to water ingress, Philips / Signify cannot guarantee safe failure and the product warranty will become void

Versions



PowerBalance Square- 16cup

Dimensional drawing



Product details



IPDP_RC460Bi_0153-Detail photo



Upgradable sensor



IPDP_RC460Bi_0043-Detail photo



IPDP_RC460Bi_0049-Detail photo



IPDP_RC460Bi_0055-Detail photo



PowerBalance SC200 DPP



PowerBalance SC200 DPP

General Information	
Driver included	Yes
Gear	-
Light source replaceable	No
Number of gear units	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 Colour	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)	1
Stroboscopic effect	0.4
Initial Performance (IEC Compliant)	
Initial chromaticity	(0.38, 0.38) SDCM ≤3
Luminous flux tolerance	+/-10%
Product Data	
Product family code	RC461B

General Information

Order Code	Full Product Name	Lamp family code
910505101712	RC461B 40S/940 SRD W60L60 VPC U4 W3	-
910505101722	RC461B 40S/940 SRD W60L60 VPC U4 SC	-
910505100245	RC461B 34S/940 PSD W60L60 VPC	LED34S
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	LED40S
910505100250	RC461B 40S/940 PSD W60L60 VPC	LED40S
910505101678	RC461B 80S/TW9 DIA W60L60 VPC	-
910505103624	RC461B 34S/840 PSD W60L60 VPC UE	-

Light Technical (1/2)

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour rendering index (CRI)	Luminous efficacy (rated) (nom.)	Luminous Flux
910505101712	RC461B 40S/940 SRD W60L60 VPC U4 W3	4000 K	≥90	138 lm/W	4,000 lm
910505101722	RC461B 40S/940 SRD W60L60 VPC U4 SC	4000 K	≥90	138 lm/W	4,000 lm
910505100245	RC461B 34S/940 PSD W60L60 VPC	4000 K	≥90	142 lm/W	3,400 lm
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	4000 K	≥90	140 lm/W	4,000 lm

Light Technical (2/2)

Order Code	Full Product Name	Number of light sources
910505101712	RC461B 40S/940 SRD W60L60 VPC U4 W3	-
910505101722	RC461B 40S/940 SRD W60L60 VPC U4 SC	-
910505100245	RC461B 34S/940 PSD W60L60 VPC	1
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	1

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Suitable for random switching
910505101712	RC461B 40S/940 SRD W60L60 VPC U4 W3	29 W	Yes (relates to presence/movement detection and daylight harvesting)
910505101722	RC461B 40S/940 SRD W60L60 VPC U4 SC	29 W	Yes (relates to presence/movement detection and daylight harvesting)
910505100245	RC461B 34S/940 PSD W60L60 VPC	24 W	No

Controls and Dimming

Order Code	Full Product Name	Embedded control
910505101712	RC461B 40S/940 SRD W60L60 VPC U4 W3	Upgradable sensor slot with SNS210 sensor
910505101722	RC461B 40S/940 SRD W60L60 VPC U4 SC	Upgradable sensor slot with SNS210 sensor
910505100245	RC461B 34S/940 PSD W60L60 VPC	-

Mechanical and Housing

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour rendering index (CRI)	Luminous efficacy (rated) (nom.)	Luminous Flux
	W60L60 VPC W3W2				
910505100250	RC461B 40S/940 PSD W60L60 VPC	4000 K	≥90	140 lm/W	4,000 lm
910505101678	RC461B 80S/TW9 DIA W60L60 VPC	Tunable white 2700-6500 K	≥90	122 lm/W	8,000 lm
910505103624	RC461B 34S/840 PSD W60L60 VPC UE	4000 K	≥80	172 lm/W	3,400 lm

Order Code	Full Product Name	Number of light sources
910505100250	RC461B 40S/940 PSD W60L60 VPC	1
910505101678	RC461B 80S/TW9 DIA W60L60 VPC	-
910505103624	RC461B 34S/840 PSD W60L60 VPC UE	-

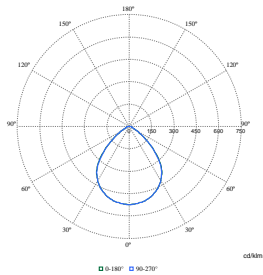
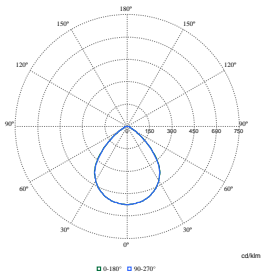
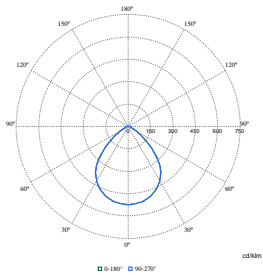
Order Code	Full Product Name	Power Consumption	Suitable for random switching
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	29 W	No
910505100250	RC461B 40S/940 PSD W60L60 VPC	29 W	No
910505101678	RC461B 80S/TW9 DIA W60L60 VPC	64 W	No
910505103624	RC461B 34S/840 PSD W60L60 VPC UE	20 W	No

Order Code	Full Product Name	Embedded control
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	-
910505100250	RC461B 40S/940 PSD W60L60 VPC	-
910505101678	RC461B 80S/TW9 DIA W60L60 VPC	-
910505103624	RC461B 34S/840 PSD W60L60 VPC UE	-

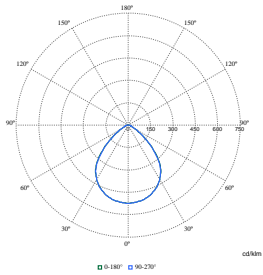
Order Code	Full Product Name	Optical cover type
910505101712	RC461B 40S/940 SRD W60L60 VPC U4 W3 -	
910505101722	RC461B 40S/940 SRD W60L60 VPC U4 SC -	
910505100245	RC461B 34S/940 PSD W60L60 VPC	Polycarbonate bowl/cover
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	Polycarbonate bowl/cover

Order Code	Full Product Name	Optical cover type
910505100250	RC461B 40S/940 PSD W60L60 VPC	Polycarbonate bowl/cover
910505101678	RC461B 80S/TW9 DIA W60L60 VPC	-
910505103624	RC461B 34S/840 PSD W60L60 VPC UE	-

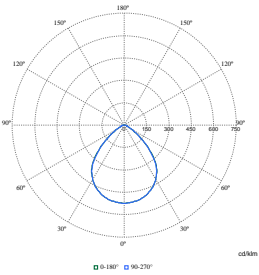
Polar Wide Diagrams



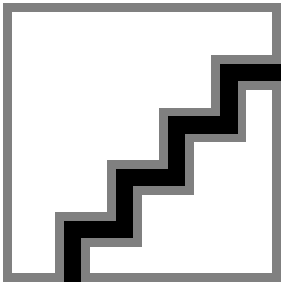
Polar Normal (separate) - RC460BN - 910505100245



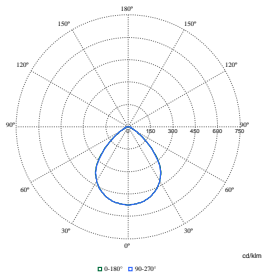
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Polar Normal (separate) - RC460BN - 910505101722



Polar Normal (separate) - RC460BN - 910505101712



Polar Normal (separate) - RC460BN - 910505101678



Polar Normal (separate) - RC460BN - 910505103624

Polar Normal (separate) - RC460BN - 910505100249

