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 ceilingstypes.

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

Features
· Variety of mounting options
· Advanced LED technology
· Available in different shapes and sizes
· Office-norm-compliant
· Integrated 3 hour emergency options available
· Integrated sensor for (connected) lighting systems enabling additional energy saving and data collection

PowerBalance gen2

Application

· Offices
· Other indoor applications

Warnings and Safety

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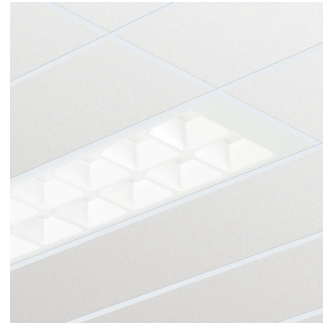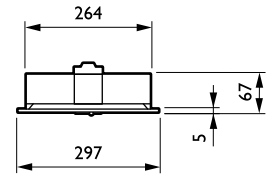
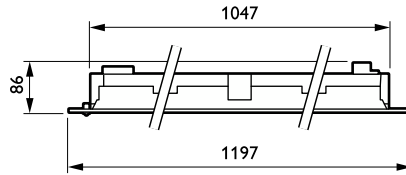## Versions

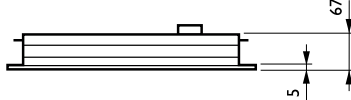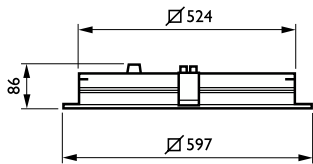
PowerBalance Square- 16cup
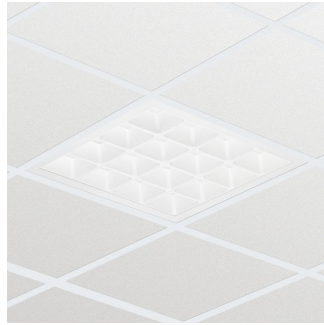
IPPR RC460Bi 0047

IPPR_RC460Bi_0065-Product photo

Dimensional drawing

Product details

IPDP_RC460Bi_0153-Detail photo

Upradable sensor

Product details

IPDP_RC460Bi_0043-Detail photo

IPDP_RC460Bi_0049-Detail photo

IPDP_RC460Bi_0055-Detail photo

PowerBalance SC200 DPP

PowerBalance SC200 DPP

PowerBalance gen2

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	–
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
98038200	RC461B 34S/940 SRD W60L60 VPC U4	–
10930800	RC461B 34S/840 SRD W60L60 VPC U4 UE	–
96451100	RC461B 34S/940 PSD W60L60 VPC	LED34S
97998000	RC461B 80S/TW9 DIA W60L60 VPC	–
97986700	RC461B 80S/TW9 DIA W30L120 VPC	–

Light Technical (1/2)

PowerBalance gen2

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour rendering index (CRI)	Luminous efficacy (rated) (nom.)	Luminous Flux
98038200	RC461B 34S/940 SRD W60L60 VPC U4	4000 K	≥90	139 lm/W	3,400 lm
10930800	RC461B 34S/840 SRD W60L60 VPC U4 UE	4000 K	≥80	172 lm/W	3,400 lm
96451100	RC461B 34S/940 PSD W60L60 VPC	4000 K	≥90	142 lm/W	3,400 lm

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour rendering index (CRI)	Luminous efficacy (rated) (nom.)	Luminous Flux
97998000	RC461B 80S/TW9 DIA W60L60 VPC	Tunable white 2700–6500 K	≥90	122 lm/W	8,000 lm
97986700	RC461B 80S/TW9 DIA W30L120 VPC	Tunable white 2700–6500 K	≥90	122 lm/W	8,000 lm

Light Technical (2/2)

Order Code	Full Product Name	Number of light sources
98038200	RC461B 34S/940 SRD W60L60 VPC U4	–
10930800	RC461B 34S/840 SRD W60L60 VPC U4 UE	–
96451100	RC461B 34S/940 PSD W60L60 VPC	1

Order Code	Full Product Name	Number of light sources
97998000	RC461B 80S/TW9 DIA W60L60 VPC	–
97986700	RC461B 80S/TW9 DIA W30L120 VPC	–

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Suitable for random switching
98038200	RC461B 34S/940 SRD W60L60 VPC U4	25 W	Yes (relates to presence/movement detection and daylight harvesting)
10930800	RC461B 34S/840 SRD W60L60 VPC U4 UE	20 W	Yes (relates to presence/movement

Order Code	Full Product Name	Power Consumption	Suitable for random switching
			detection and daylight harvesting)
96451100	RC461B 34S/940 PSD W60L60 VPC	24 W	No
97998000	RC461B 80S/TW9 DIA W60L60 VPC	64 W	No
97986700	RC461B 80S/TW9 DIA W30L120 VPC	64 W	No

Controls and Dimming

Order Code	Full Product Name	Embedded control
98038200	RC461B 34S/940 SRD W60L60 VPC U4	Upgradable sensor slot with SNS210 sensor
10930800	RC461B 34S/840 SRD W60L60 VPC U4 UE	Upgradable sensor slot with SNS210 sensor

Order Code	Full Product Name	Embedded control
96451100	RC461B 34S/940 PSD W60L60 VPC	–
97998000	RC461B 80S/TW9 DIA W60L60 VPC	–
97986700	RC461B 80S/TW9 DIA W30L120 VPC	–

Mechanical and Housing

Order Code	Full Product Name	Optical cover type	Housing Colour
98038200	RC461B 34S/940 SRD W60L60 VPC U4	–	White
10930800	RC461B 34S/840 SRD W60L60 VPC U4 UE	–	White RAL 9003

Order Code	Full Product Name	Optical cover type	Housing Colour
96451100	RC461B 34S/940 PSD W60L60 VPC	Polycarbonate bowl/ cover	White
97998000	RC461B 80S/TW9 DIA W60L60 VPC	–	White

PowerBalance gen2

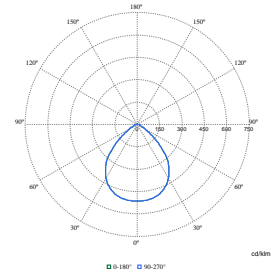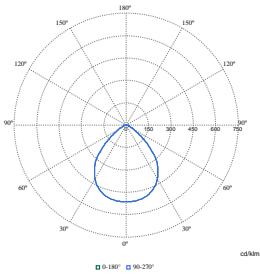| Order Code	Full Product Name	Optical cover type	Housing Colour
97986700	RC461B 80S/TW9 DIA W30L120 VPC	–	White

Polar Wide Diagrams
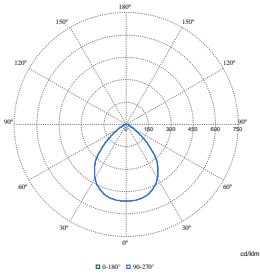
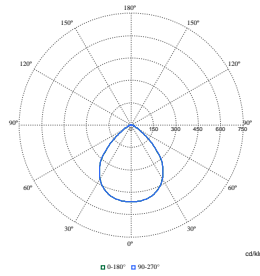**Polar Normal (separate) – RC460BN – 910505100245**
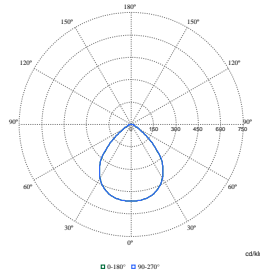
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Polar Normal (separate) – RC460BP – 910505101666

Polar Normal (separate) – RC460BN – 910505101678

Polar Normal (separate) – RC460BN – 910505103626

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2023, December 7 – data subject to change