



# 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 wellbeing, this office luminaire also promises future-proof connectivity. State-of-the-art efficacy (at CRI >90), upgradability features, a long lifetime, repairability, 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 Wellbeing using Interact Pro - all with a sustainable approach to high-performance office lighting.

### Benefits

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

## Features

- Best-in-class efficacy up to 174lm/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
- Connected system ready with Interact Pro scalable platform using integrated sensors and/or wireless drivers for data collection, occupancy, daylight regulation and wayfinding

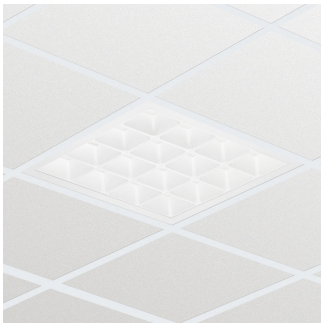
## Application

- Offices
- Education
- Healthcare

## Warnings and Safety

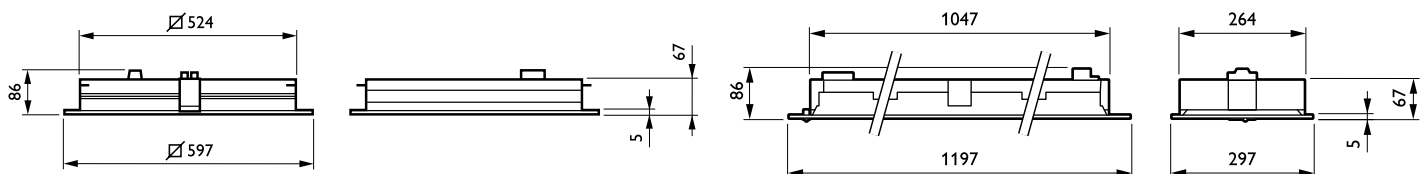
- The product is IP20 and, as such, is not protected against water ingress. Therefore we strongly recommend that the environment in which the luminaire is to be installed should be suitably checked
- If the advice above is not taken and the luminaires are subject to water ingress, Philips / Signify cannot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

## Versions



IPPR RC460Bi 0047

## Dimensional drawing



Product details



IPDP\_RC460Bi\_0153-Detail photo



IPDP\_RC460Bi\_0043-Detail photo



IPDP\_RC460Bi\_0049-Detail photo



IPDP\_RC460Bi\_0103-Detail photo

General Information	
Driver included	Yes
Gear	-
Light source replaceable	No
Number of gear units	1 unit
Service tag	Yes
Light Technical	
Beam angle of light source	120 degree(s)
Correlated Color Temperature (Nom)	4000 K
Color rendering index (CRI)	≥90
Number of light sources	1
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
Suitable for random switching	No
Controls and Dimming	
Dimmable	Yes
Embedded control	-
Maximum dim level	1%
Mechanical and Housing	
Optical cover type	Polycarbonate bowl/cover
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)	
Initial chromaticity	(0.38, 0.38) SDCM ≤3
Luminous flux tolerance	+/-10%
Product Data	

General Information

Order Code	Full Product Name	Lamp family code
910505100250	RC461B 40S/940 PSD W60L60 VPC	LED40S
910505100232	RC461B 34S/940 PSD W30L120 VPC W3W2	LED34S
910505100235	RC461B 40S/940 PSD W30L120 VPC	LED40S
910505100238	RC461B 40S/940 PSD W30L120 VPC W3W2	LED40S

Light Technical

Order Code	Full Product Name	Luminous Efficacy	
		(rated) (Nom)	Luminous Flux
910505100250	RC461B 40S/940 PSD W60L60 VPC	140 lm/W	4,000 lm
910505100232	RC461B 34S/940 PSD W30L120 VPC W3W2	142 lm/W	3,400 lm

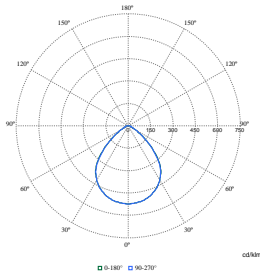
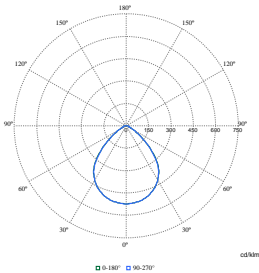
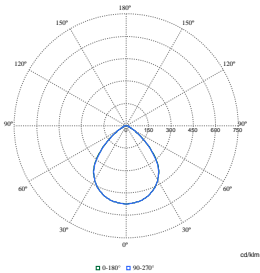
Order Code	Full Product Name	Luminous Efficacy	
		(rated) (Nom)	Luminous Flux
910505100235	RC461B 40S/940 PSD W30L120 VPC	140 lm/W	4,000 lm
910505100238	RC461B 40S/940 PSD W30L120 VPC W3W2	140 lm/W	4,000 lm

Operating and Electrical

Order Code	Full Product Name	Power Consumption
910505100250	RC461B 40S/940 PSD W60L60 VPC	29 W
910505100232	RC461B 34S/940 PSD W30L120 VPC W3W2	24 W

Order Code	Full Product Name	Power Consumption
910505100235	RC461B 40S/940 PSD W30L120 VPC	29 W
910505100238	RC461B 40S/940 PSD W30L120 VPC W3W2	29 W

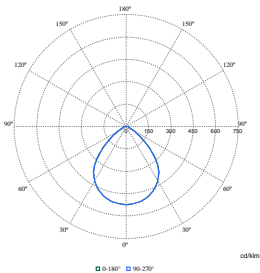
Polar Wide Diagrams



Polar Normal (separate) - RC460BP - 910505100235

Polar Normal (separate) - RC460BN - 910505100250

Polar Normal (separate) - RC460BP - 910505100238



Polar Normal (separate) - RC460BP - 910505100232

