



# 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 ceiling types.

### 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

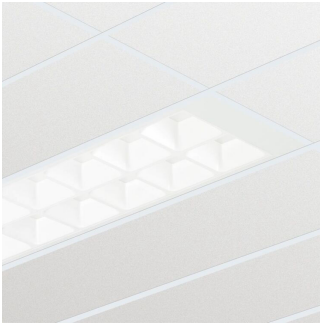
## Application

- 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

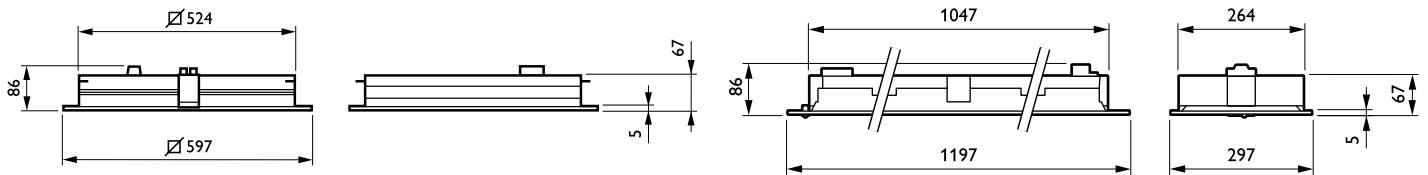


IPPR\_RC460Bi\_0065-Product photo



Upgradable sensor

## Dimensional drawing



## Product details



IPDP\_RC460Bi\_0153-Detail photo



Upgradable sensor

# PowerBalance gen2

## Product details



IPDP\_RC460Bi\_0043-Detail  
photo



IPDP\_RC460Bi\_0049-Detail  
photo



IPDP\_RC460Bi\_0055-Detail  
photo

# PowerBalance gen2

## General Information

Driver included	Yes
ENEC mark	ENEC mark
Flammability mark	For mounting on normally flammable surfaces
Gear	-
Glow-wire test	Temperature 650 °C, duration 30 s
Light source replaceable	No
Number of gear units	Unit
Product family code	RC461B

## Light Technical

Optic type	Wide beam office-compliant
Flickering value (PstLM)	1
Stroboscopic effect	0.4

## Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz

## Temperature

Ambient temperature range	+10 to +40 °C
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## Controls and Dimming

Dimmable	Yes
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## Mechanical and Housing

Housing Colour	White
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## Approval and Application

Protection class IEC	Safety class I
Mech. impact protection code	IK02
Ingress protection code	IP20/40

## Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
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## Application Conditions

Maximum dim level	1%
Suitable for random switching	No

## General Information

Order Code	Full Product Name	CE mark	Lamp family	
			code	Embedded control
96451100	RC461B LED34S/940 PSD W60L60 VPC PIP	Yes	LED34S	-
96456600	RC461B LED40S/940 PSD W60L60 VPC PIP	Yes	LED40S	-
97998000	RC461B LED80S/TW9 DIA W60L60 VPC PIP	Yes	-	-
10930800	RC461B 34S/840 SRD W60L60 VPC U4 PIP UE	CE mark	-	Upgradable sensor slot with SNS210 sensor
97986700	RC461B LED80S/TW9 DIA W30L120 VPC PIP	Yes	-	-
98038200	RC461B LED34S/940 SRD W60L60 VPC U4 PIP	Yes	-	Upgradable sensor slot with SNS210 sensor

## Light Technical (1/2)

Order Code	Full Product Name	Beam angle of light source	Correlated Colour Temperature	Optical cover type	Colour rendering index (CRI)
		degree(s)	K		
96451100	RC461B LED34S/940	120	4000 K	Polycarbonate bowl/cover	≥90

Order Code	Full Product Name	Beam angle of light source	Correlated Colour Temperature	Optical cover type	Colour rendering index (CRI)
		degree(s)	K		
	PSD W60L60 VPC PIP				

## PowerBalance gen2

Order Code	Full Product Name	Beam angle of light source	Correlated Colour Temperature	Optical cover type	Colour rendering index (CRI)
		degree(s)	K		
96456600	RC461B	120	4000 K	Polycarbonate	≥90
	LED40S/940	degree(s)		bowl/cover	
	PSD W60L60 VPC PIP				
97998000	RC461B	120	Tunable white	-	≥90
	LED80S/TW9	degree(s)	2700-6500 K		
	DIA W60L60 VPC PIP				
10930800	RC461B	120	4000 K	-	≥80
	34S/840 SRD	degree(s)			

Order Code	Full Product Name	Beam angle of light source	Correlated Colour Temperature	Optical cover type	Colour rendering index (CRI)
		degree(s)	K		
	W60L60 VPC U4 PIP UE				
97986700	RC461B	120	Tunable white	-	≥90
	LED80S/TW9	degree(s)	2700-6500 K		
	DIA W30L120 VPC PIP				
98038200	RC461B	- degree(s)	4000 K	-	≥90
	LED34S/940				
	SRD W60L60 VPC U4 PIP				

### Light Technical (2/2)

Order Code	Full Product Name	Luminous efficacy (rated) (nom.)	Luminous Flux	Number of light sources
		lm/W	lm	
96451100	RC461B LED34S/940 PSD W60L60 VPC PIP	139 lm/W	3,400 lm	1
96456600	RC461B LED40S/940 PSD W60L60 VPC PIP	143 lm/W	4,000 lm	1
97998000	RC461B LED80S/TW9 DIA W60L60 VPC PIP	130 lm/W	7,700 lm	-

Order Code	Full Product Name	Luminous efficacy (rated) (nom.)	Luminous Flux	Number of light sources
		lm/W	lm	
10930800	RC461B 34S/840 SRD W60L60 VPC U4 PIP UE	172 lm/W	3,400 lm	-
97986700	RC461B LED80S/TW9 DIA W30L120 VPC PIP	130 lm/W	7,700 lm	-
98038200	RC461B LED34S/940 SRD W60L60 VPC U4 PIP	142 lm/W	3,400 lm	-

### Operating and Electrical

Order Code	Full Product Name	Power Consumption
96451100	RC461B LED34S/940 PSD W60L60 VPC PIP	24 W
96456600	RC461B LED40S/940 PSD W60L60 VPC PIP	28 W
97998000	RC461B LED80S/TW9 DIA W60L60 VPC PIP	64 W

Order Code	Full Product Name	Power Consumption
10930800	RC461B 34S/840 SRD W60L60 VPC U4 PIP UE	19.8 W
97986700	RC461B LED80S/TW9 DIA W30L120 VPC PIP	64 W
98038200	RC461B LED34S/940 SRD W60L60 VPC U4 PIP	24 W

### Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
96451100	RC461B LED34S/940 PSD W60L60 VPC PIP	(0.38, 0.38) SDCM <3
96456600	RC461B LED40S/940 PSD W60L60 VPC PIP	(0.38, 0.38) SDCM <3

Order Code	Full Product Name	Initial chromaticity
97998000	RC461B LED80S/TW9 DIA W60L60 VPC PIP	(0.38, 0.38) SDCM <3
10930800	RC461B 34S/840 SRD W60L60 VPC U4 PIP UE	(0.384; 0.378)SDCM <3

