# 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

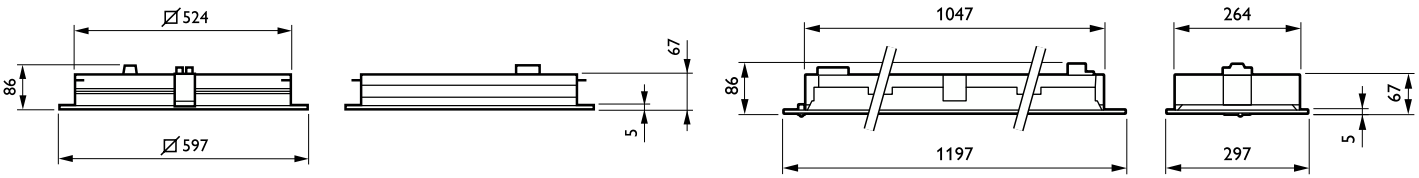


IPPR RC460Bi 0047



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

| 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 |
|---|---|---|
| 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)

| 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 |
| 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 |
| 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 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 |

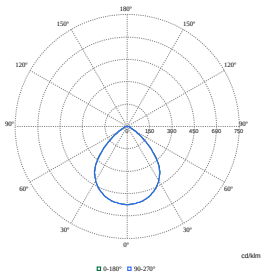
## Controls and Dimming

| 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 |
| 96451100 | RC461B 34S/940 PSD W60L60 VPC | - |
| 97998000 | RC461B 80S/TW9 DIA W60L60 VPC | - |
| 97986700 | RC461B 80S/TW9 DIA W30L120 VPC | - |

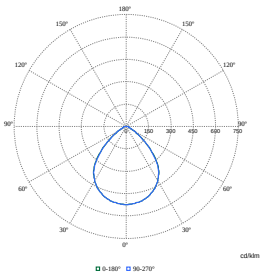
## Mechanical and Housing

| Order Code | Full Product Name | Optical cover type |
|---|---|---|
| 98038200 | RC461B 34S/940 SRD W60L60 VPC U4 | - |
| 10930800 | RC461B 34S/840 SRD W60L60 VPC U4 UE | - |
| 96451100 | RC461B 34S/940 PSD W60L60 VPC | Polycarbonate bowl/cover |
| 97998000 | RC461B 80S/TW9 DIA W60L60 VPC | - |
| 97986700 | RC461B 80S/TW9 DIA W30L120 VPC | - |

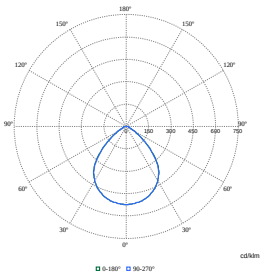
## Polar Wide Diagrams



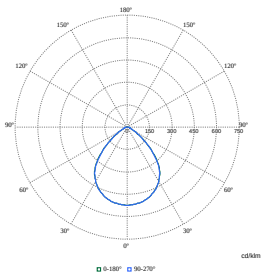

**Polar Normal (separate) - RC460BN - 910505100245**



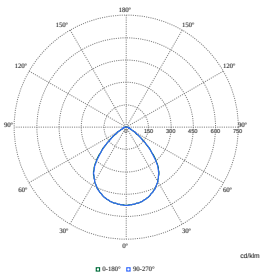

**Polar Normal (separate) - RC460BN - 910505101718**




**Polar Normal (separate) - RC460BP - 910505101666**




**Polar Normal (separate) - RC460BN - 910505101678**




**Polar Normal (separate) - RC460BN - 910505103626**