



# PowerBalance RC360 – Perfect combination of sustainable performance and return on investment

## PowerBalance RC360B

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 in order to ensure a comfortable working environment. PowerBalance RC360 offers the ideal combination of sustainable performance and return on investment on the one hand, and compliance with relevant office norms on the other. It reduces energy costs by more than half compared to a T5 solution, and the light source also has a longer lifetime. This results in significantly lower operating costs, ensuring a payback that meets the needs of the specification market. The architecture of PowerBalance RC360 enables a range of highly versatile modular and semi-modular luminaires. These can be easily mounted in ceilings with exposed or concealed T-bars, as well as plaster ceilings and bandraster-type ceilings.

### Benefits

- Delivers substantial savings on operating costs compared to T5
- Fully compliant with relevant office norms
- Very efficient luminaire enabling up to 80% energy savings

# PowerBalance RC360B

## Features

- State-of-the-art optical/LED technology
- High efficacy: 115 lm/W
- $UGR < 19$  and  $L65 \leq 3000$  cd/m<sup>2</sup>
- Choice of dimensions and options to suit different applications and needs
- Suitable for direct replacement of T5 luminaires

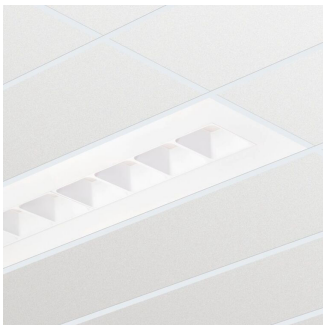
## Application

- General lighting for office buildings
- General lighting for healthcare applications
- General lighting for educational applications

## 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\_RC360Bi\_0003-Product photo

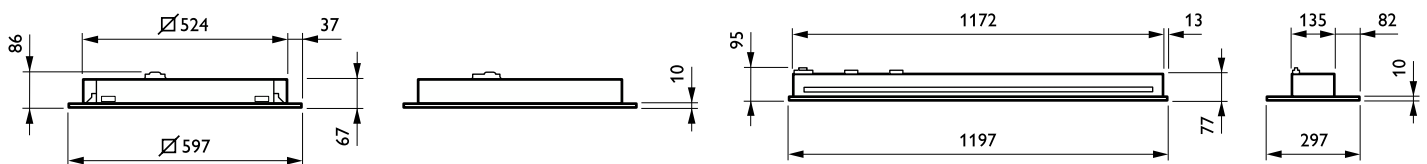


IPPR RC360Bi 0005

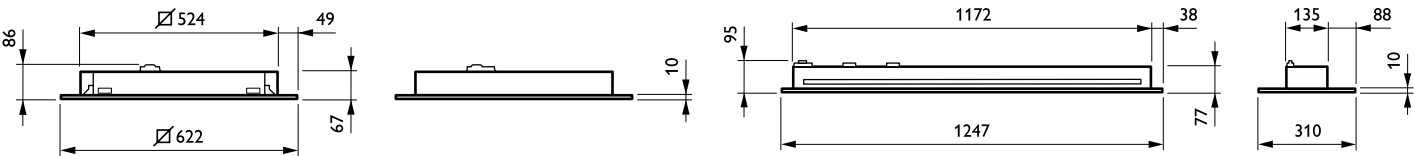


IPPR RC360Bi 0007

## Dimensional drawing



Dimensional drawing



Product details

IPDP\_RC360Bi\_0001-Detail photo



IPDP\_RC360Bi\_0003-Detail photo



IPDP\_RC360Bi\_0005-Detail photo



IPDP\_RC360Bi\_0007-Detail photo



IPDP\_RC360Bi\_0019-Detail photo



# PowerBalance RC360B

## General Information

|                          |        |
|--------------------------|--------|
| Driver included          | Yes    |
| Gear                     | -      |
| Lamp family code         | LED34S |
| Light source replaceable | No     |
| Number of gear units     | 1 unit |
| Service tag              | Yes    |

## Light Technical

|                             |                            |
|-----------------------------|----------------------------|
| Beam angle of light source  | 120 degree(s)              |
| Color rendering index (CRI) | ≥90                        |
| Luminous Flux               | 3,400 lm                   |
| 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

|                  |   |
|------------------|---|
| Embedded control | - |
|------------------|---|

## 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)

|                         |        |
|-------------------------|--------|
| Luminous flux tolerance | +/-10% |
|-------------------------|--------|

## Over Time Performance (IEC Compliant)

|                               |        |
|-------------------------------|--------|
| Driver failure rate at 5000 h | 0.01 % |
|-------------------------------|--------|

## Light Technical

| Order Code | Full Product Name                   | Correlated Color Temperature (Nom) | Luminous Efficacy (rated) (Nom) |
|------------|-------------------------------------|------------------------------------|---------------------------------|
| 96453500   | RC360B 34S/930 PSD W60L60 VPC       | 3000 K                             | 119 lm/W                        |
| 96461000   | RC360B 34S/940 PSU W60L60 VPC       | 4000 K                             | 129 lm/W                        |
| 96473300   | RC360B 34S/940 PSD W60L60 VPC W3W2  | 4000 K                             | 129 lm/W                        |
| 96437500   | RC360B 34S/940 PSD W30L120 VPC W3W2 | 4000 K                             | 129 lm/W                        |
| 96446700   | RC360B 34S/930 PSD W30L120 VPC W3W2 | 3000 K                             | 119 lm/W                        |
| 96448100   | RC360B 34S/940 PSD W30L120 VPC      | 4000 K                             | 129 lm/W                        |
| 96454200   | RC362B 34S/940 PSD W62L62 VPC       | 4000 K                             | 129 lm/W                        |
| 96459700   | RC362B 34S/940 PSU W62L62 VPC       | 4000 K                             | 129 lm/W                        |
| 96445000   | RC362B 34S/940 PSU W31L125 VPC      | 4000 K                             | 129 lm/W                        |

PowerBalance RC360B

Operating and Electrical

| Order Code | Full Product Name                   | Power Consumption |
|------------|-------------------------------------|-------------------|
| 96453500   | RC360B 34S/930 PSD W60L60 VPC       | 27 W              |
| 96461000   | RC360B 34S/940 PSU W60L60 VPC       | 26 W              |
| 96473300   | RC360B 34S/940 PSD W60L60 VPC W3W2  | 26 W              |
| 96437500   | RC360B 34S/940 PSD W30L120 VPC W3W2 | 26 W              |
| 96446700   | RC360B 34S/930 PSD W30L120 VPC W3W2 | 27 W              |

| Order Code | Full Product Name              | Power Consumption |
|------------|--------------------------------|-------------------|
| 96448100   | RC360B 34S/940 PSD W30L120 VPC | 26 W              |
| 96454200   | RC362B 34S/940 PSD W62L62 VPC  | 26 W              |
| 96459700   | RC362B 34S/940 PSU W62L62 VPC  | 26 W              |
| 96445000   | RC362B 34S/940 PSU W31L125 VPC | 26 W              |

Controls and Dimming

| Order Code | Full Product Name                   | Dimmable | Maximum dim level |
|------------|-------------------------------------|----------|-------------------|
| 96453500   | RC360B 34S/930 PSD W60L60 VPC       | Yes      | 1%                |
| 96461000   | RC360B 34S/940 PSU W60L60 VPC       | No       | Not applicable    |
| 96473300   | RC360B 34S/940 PSD W60L60 VPC W3W2  | Yes      | 1%                |
| 96437500   | RC360B 34S/940 PSD W30L120 VPC W3W2 | Yes      | 1%                |

| Order Code | Full Product Name                   | Dimmable | Maximum dim level |
|------------|-------------------------------------|----------|-------------------|
| 96446700   | RC360B 34S/930 PSD W30L120 VPC W3W2 | Yes      | 1%                |
| 96448100   | RC360B 34S/940 PSD W30L120 VPC      | Yes      | 1%                |
| 96454200   | RC362B 34S/940 PSD W62L62 VPC       | Yes      | 1%                |
| 96459700   | RC362B 34S/940 PSU W62L62 VPC       | No       | Not applicable    |
| 96445000   | RC362B 34S/940 PSU W31L125 VPC      | No       | Not applicable    |

Initial Performance (IEC Compliant)

| Order Code | Full Product Name                   | Initial chromaticity       |
|------------|-------------------------------------|----------------------------|
| 96453500   | RC360B 34S/930 PSD W60L60 VPC       | (0.43, 0.40) SDCM $\leq$ 3 |
| 96461000   | RC360B 34S/940 PSU W60L60 VPC       | (0.38, 0.38) SDCM $\leq$ 3 |
| 96473300   | RC360B 34S/940 PSD W60L60 VPC W3W2  | (0.38, 0.38) SDCM $\leq$ 3 |
| 96437500   | RC360B 34S/940 PSD W30L120 VPC W3W2 | (0.38, 0.38) SDCM $\leq$ 3 |
| 96446700   | RC360B 34S/930 PSD W30L120 VPC W3W2 | (0.43, 0.40) SDCM $\leq$ 3 |

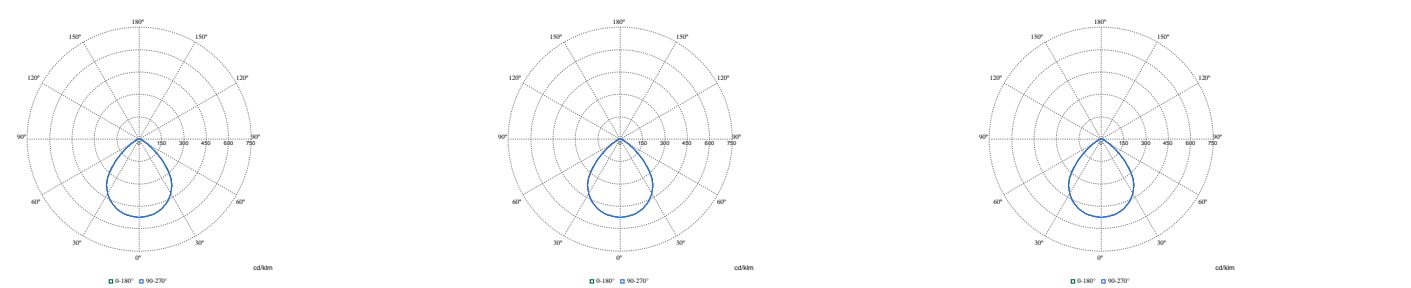
| Order Code | Full Product Name              | Initial chromaticity       |
|------------|--------------------------------|----------------------------|
| 96448100   | RC360B 34S/940 PSD W30L120 VPC | (0.38, 0.38) SDCM $\leq$ 3 |
| 96454200   | RC362B 34S/940 PSD W62L62 VPC  | (0.38, 0.38) SDCM $\leq$ 3 |
| 96459700   | RC362B 34S/940 PSU W62L62 VPC  | (0.38, 0.38) SDCM $\leq$ 3 |
| 96445000   | RC362B 34S/940 PSU W31L125 VPC | (0.38, 0.38) SDCM $\leq$ 3 |

Product Data

| Order Code | Full Product Name                   | Product family code |
|------------|-------------------------------------|---------------------|
| 96453500   | RC360B 34S/930 PSD W60L60 VPC       | RC360B              |
| 96461000   | RC360B 34S/940 PSU W60L60 VPC       | RC360B              |
| 96473300   | RC360B 34S/940 PSD W60L60 VPC W3W2  | RC360B              |
| 96437500   | RC360B 34S/940 PSD W30L120 VPC W3W2 | RC360B              |
| 96446700   | RC360B 34S/930 PSD W30L120 VPC W3W2 | RC360B              |

| Order Code | Full Product Name              | Product family code |
|------------|--------------------------------|---------------------|
| 96448100   | RC360B 34S/940 PSD W30L120 VPC | RC360B              |
| 96454200   | RC362B 34S/940 PSD W62L62 VPC  | RC362B              |
| 96459700   | RC362B 34S/940 PSU W62L62 VPC  | RC362B              |
| 96445000   | RC362B 34S/940 PSU W31L125 VPC | RC362B              |

Polar Wide Diagrams

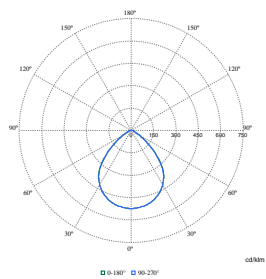


Polar Normal (separate) - RC460BP - 910505100240

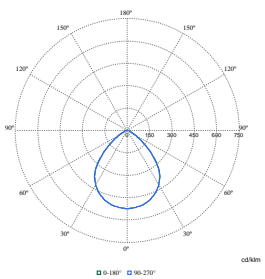
Polar Normal (separate) - RC460BN - 910505100247

Polar Normal (separate) - RC460BP - 910505100239

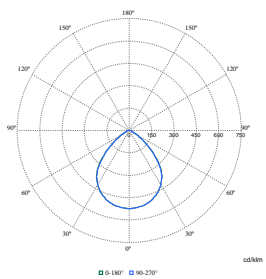
Polar Wide Diagrams



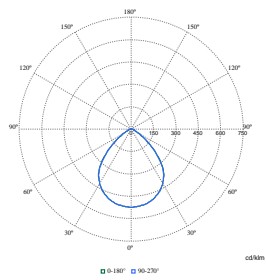
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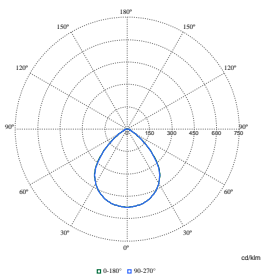
Polar Normal (separate) - RC460BP - 910505100242



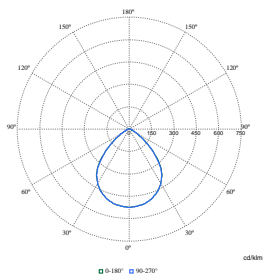
Polar Normal (separate) - RC460BN - 910505100267



Polar Normal (separate) - RC460BN - 910505100231



Polar Normal (separate) - RC460BN - 910505100248



Polar Normal (separate) - RC460BN - 910505100253

