



# PowerBalance PoE – Intelligent energy-saving luminaire enabled for connected lighting systems

## PowerBalance PoE

With Power-over-Ethernet (PoE) technology, PowerBalance PoE receives power and data over a single standard Ethernet cable, eliminating the need for separate power cabling. With the simple click of a connector, PowerBalance PoE luminaires become part of a complete, integrated connected lighting system, delivering extraordinary illumination experiences and value beyond illumination. A built-in lighting and control system gives office users personal control over their preferred light settings via a specially designed smartphone app. With integrated sensors, PowerBalance PoE luminaires can track activity patterns, daylight levels, and in the near future humidity, CO<sub>2</sub>, temperature, or other data. This data allows facility managers to gain deep insight into building operations, helping them optimize the delivery of resources, enhance the experience and performance of occupants, and support improved asset management.

### Benefits

- LED lighting and control system with breakthrough Total Cost of Ownership, reducing installation costs by around 25% and commissioning costs by around 50%
- Software applications optimize working processes, comfort, and asset utilization and management
- Clear customer benefits in both the construction and usage phases of a building

# PowerBalance PoE

## Features

- Data gathering on building usage via luminaire sensors
- Personal control of lighting and temperature settings
- Simpler and cheaper installation and lighting commissioning

## Application

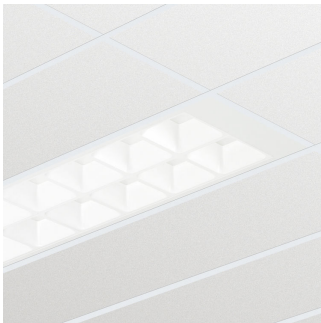
- General lighting for office buildings

## Specifications

<b>Type</b>	RC461B (module size 600x600 mm versions) RC463B (module size 625x625 mm versions)
<b>Ceiling type</b>	Exposed T-bar ceiling
<b>Ceiling grid</b>	RC461B: module size in length: 600 mm RC463B: module size in length: 625 mm
<b>Light source</b>	Non-replaceable LED module
<b>Power</b>	20 to 29 W (depending on type)
<b>Beam angle</b>	90°
<b>Luminous flux</b>	3100 lm (for PoE 25 W systems)
<b>Correlated Color</b>	4000 K
<b>Temperature</b>	
<b>Color Rendering Index</b>	> 80
<b>Lumen maintenance at median useful life* 50000 h</b>	L90
<b>Control gear failure rate at median useful life 50000 h</b>	5%

<b>Performance Ambient</b>	+25 °C
<b>Temperature Tq</b>	
<b>Operating temperature range</b>	+10 to +40 °C
<b>Driver</b>	Built-in
<b>Power/Data supply</b>	PoE (Power over Ethernet) driver
<b>Mains voltage</b>	54 V (PoE switch)
<b>Dimming</b>	Via PoE controller
<b>Controls system input</b>	PoE controller
<b>Material</b>	Housing: coated steel and plastic Rim: powder coated steel Optics: plastic
<b>Color</b>	White
<b>Connection</b>	PoE connector CAT cable
<b>Maintenance</b>	Optical module sealed for life; no internal cleaning required
<b>Installation</b>	In lay, no brackets needed Through-wiring not possible

## Versions



RC461B L120

# PowerBalance PoE

## Product details



Slots for sensors of choice



ActiLume sensor



Modular backbone



Special optics



ActiLume sensor



CAT connection



PowerBalance PoE RC463B recessed LED luminaire, module size 31x125 mm (visible profile ceiling version)



PowerBalance gen2 RC462B/RC463B recessed LED luminaire, with ActiLume (visible profile ceiling version)

