



PowerBalance Tunable White, recessed – Supporting a general feeling of health and well-being

PowerBalance Tunable White, recessed

The right light can have a favourable effect on various physiological processes in the human body. Statistically, 65% of office workers don't feel at their best before 9.00 a.m. By giving them personal control over the lighting in their work space, so they can tailor it to suit the time of day and what they are doing, our PowerBalance Tunable White solution can enhance their comfort, task performance and productivity. Similarly, in schools, PowerBalance Tunable White allows teachers to create the right mood to help pupils to concentrate, relax, etc., depending on the activity at hand, and so perform better overall.

Benefits

- Combines performance with smart design
- Recreates the natural rhythm of daylight
- Gives office workers greater scope to control the lighting to suit the time of day and what they are doing

Features

- Driver with two channels and LED boards offering different colours 2,700 up to 6,400 K and different flux levels.
- Tunable White features with dedicated control system
- Predefined dynamic curves vary colour temperature and intensity as a function of time

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Application

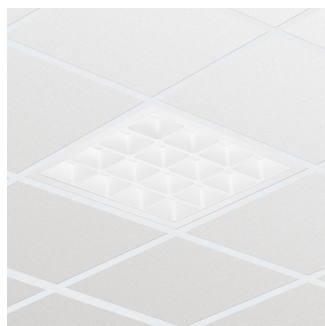
- Mid- and high-end office buildings
- Schools/universities

Specifications

| | |
|--|--|
| Type | RC464B (module size 600x600 mm versions) |
| | RC466B (module size 625x625 mm versions) |
| Ceiling type | Exposed T-bar ceiling |
| Ceiling grid | RC464B: module size in length: 600 mm |
| | RC466B: module size in length: 625 mm |
| Light source | Non-replaceable LED module |
| Power | 28.5 to 69 W |
| Beam angle | 120° |
| Luminous flux | 2900 to 7600 lm |
| Correlated Colour Temperature | 2700-6400 K |
| Colour Rendering Index | > 80 |
| Lumen maintenance at median useful life* | L90 |
| 50,000 h | |
| Control gear failure rate at median useful life | 5% |
| 50,000 h | |
| Performance Ambient Temperature Tq | +25 °C |

| | |
|------------------------------------|---|
| Operating temperature range | +10 to +40 °C |
| Driver | Built-in |
| Mains voltage | 220-240 V / 50-60 Hz |
| Dimming | DALI |
| Control system input | 0-16 V |
| Material | Housing: coated steel and polycarbonate |
| | Rim: powder-coated steel |
| | Optics: polycarbonate |
| | Reflector: polycarbonate |
| | Gear tray: steel |
| Colour | White (WH, comparable to RAL 9003) |
| Connection | Push-in connector (PI) or with pull relief (PIP) |
| | Wieland/Adels push-in connector, 3-pole mains (and 2-pole control signal) (W) |
| Maintenance | Optical module sealed for file; no internal cleaning required |
| Installation | Lay-in in exposed ceiling grids; no brackets needed |
| | Through-wiring not possible |

Versions



PowerBalance Tunable White
RC464B recessed luminaire,
square version (module size 600)



PowerBalance Tunable White
RC464B recessed luminaire,
rectangular version (module size
600)

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Product details



PowerBalance Tunable White,
recessed DP



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recessed DP



PowerBalance Tunable White,
recessed DP



PowerBalance Tunable White,
recessed DP



PowerBalance Tunable White,
recessed RC464B W60L60 DP



PowerBalance Tunable White,
recessed RC464B W30L120 DP

PowerBalance Tunable White, recessed

Application Conditions

| | |
|-------------------------------|---------------|
| Ambient temperature range | +10 to +40 °C |
| Maximum dim level | 1% |
| Suitable for random switching | No |

Approval and Application

| | |
|------------------------------|------|
| Mech. impact protection code | IK02 |
| Ingress protection code | IP20 |

Controls and Dimming

| | |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

Operating and Electrical

| | |
|---------------|-----------|
| Input Voltage | 220-240 V |
|---------------|-----------|

General Information

| | |
|--------------------------|----------------------------------|
| Cap-Base | - |
| CE mark | CE mark |
| Protection class IEC | Safety class I |
| Optical cover/lens type | PC |
| Driver included | Yes |
| Emergency lighting | No |
| ENEC mark | ENEC plus mark |
| Flammability mark | F |
| Gear | - |
| Glow-wire test | Temperature 850 °C, duration 5 s |
| Lamp family code | LED80S |
| Embedded control | No |
| Light source replaceable | No |
| Number of gear units | 1 unit |
| Number of light sources | 1 |
| Optic type | No |
| Product Family Code | RC464B |
| Safety bracket | - |
| UL mark | No |

Initial Performance (IEC Compliant)

| | |
|--------------------------------|--|
| Initial chromaticity | (0.31, 0.32) SDCM <3 to (0.43, 0.40) SDCM <3 |
| Init. Corr. Colour Temperature | 2700 to 6400 K |
| Init. Colour Rendering Index | ≥80 |
| Initial LED luminaire efficacy | 110 lm/W |
| Initial luminous flux | 8000 lm |
| Luminous flux tolerance | +/-10% |
| Initial input power | 73 W |

Mechanical and Housing

| | |
|--------|----------------|
| Colour | White RAL 9003 |
|--------|----------------|

General Information

| Order Code | Full Product Name | Air-handling |
|------------|---------------------------------------|--------------|
| 87464600 | RC464B LED80S/TWH PSD W60L60 VPC PIP | - |
| 87465300 | RC464B LED80S/TWH PSD W60L60 VPC W | - |
| 87466000 | RC464B LED80S/TWH PSD W30L120 VPC PIP | No |
| 87467700 | RC464B LED80S/TWH PSD W30L120 VPC W | No |

Mechanical and Housing

PowerBalance Tunable White, recessed

| Order Code | Full Product Name | Geometry |
|------------|---|-----------------------------|
| 87464600 | RC464B LED80S/TWH PSD W60L60 VPC PIP | Width 0.60 m, length 0.60 m |
| 87465300 | RC464B LED80S/TWH PSD W60L60 VPC W | Width 0.60 m, length 0.60 m |

| Order Code | Full Product Name | Geometry |
|------------|--|-----------------------------|
| 87466000 | RC464B LED80S/TWH PSD W30L120 VPC PIP | Width 0.30 m, length 1.20 m |
| 87467700 | RC464B LED80S/TWH PSD W30L120 VPC W | Width 0.30 m, length 1.20 m |

