



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

PowerBalance Tunable White, recessed

The right light can have a favorable effect on various physiological processes in the human body. Statistically, 65% of office workers don't feel at their best before 9.00 hours. 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 colors 2700 up to 6400 K and different flux levels.
- Tunable White features with dedicated control system
- Predefined dynamic curves vary color temperature and intensity as a function of time

PowerBalance Tunable White, recessed

Application

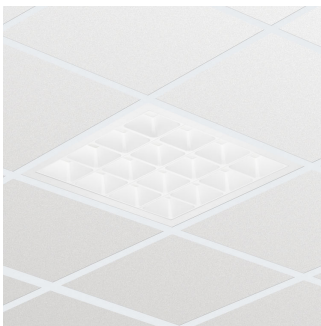
- Mid- and high-end office buildings
- Schools/universities

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 Color	2700-6400 K
Temperature	
Color Rendering Index	> 80
Lumen maintenance at median useful life*	L90
50000 h	
Control gear failure rate at median useful life	5%
50000 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
Controls system input	0-16 V
Material	Housing: coated steel and polycarbonate Rim: powder coated steel Optics: polycarbonate Reflector: polycarbonate Gear tray: steel
Color	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

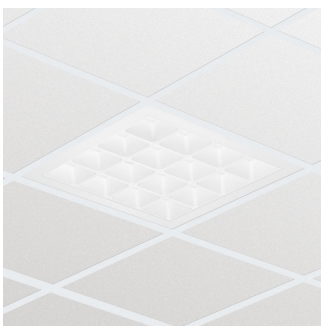
Versions



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



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



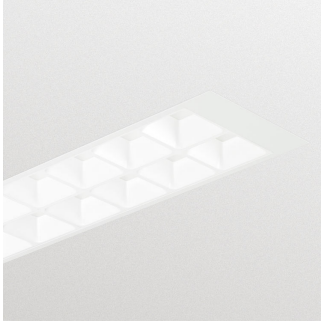
PowerBalance Tunable White
RC466B recessed luminaire,
square version (module size 625)



PowerBalance Tunable White
RC466B recessed luminaire,
rectangular version (module size
625)

PowerBalance Tunable White, recessed

Versions



PowerBalance recessed Tuneable WH - - - LED Module, system flux 8000 lm



PowerBalance recessed Tuneable WH - - - LED Module, system flux 8000 lm - Tunable white - Power supply unit with DALI interface - Width 0.30 m, length 1.20 m - Plaster ceiling version - - - - - Push-in connector and pull relief - - - - -

Product details

Push button, 4 scenes



User-interface touch panel



Control box



Sensor



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



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



PowerBalance Tunable White, recessed

Product details



PowerBalance Tunable White
RC466B recessed luminaire,
square version (module size 625)



PowerBalance Tunable White
RC466B recessed luminaire,
rectangular version (module size
625)

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
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Operating and Electrical

Input Voltage	220-240 V
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General Information

Cap-Base	-
CE mark	CE mark
Protection class IEC	Safety class I
Optical cover/lens type	Polycarbonate bowl/cover
Driver included	Yes
Emergency lighting	-
ENEC mark	ENEC plus mark
Flammability mark	For mounting on normally flammable surfaces
Gear	-
Glow-wire test	Temperature 850 °C, duration 5 s
Lamp family code	LED80S
Embedded control	-
Light source replaceable	No
Number of gear units	1 unit
Number of light sources	1 pc
Optic type	-
Safety bracket	-
UL mark	-

Initial Performance (IEC Compliant)

Initial chromaticity	(0.31, 0.32) SDCM <3 to (0.43, 0.40) SDCM <3
Init. Corr. Color Temperature	2700 to 6400 K
Init. Color 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

Color	White RAL 9003
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General Information

Order Code	Full Product Name	Air-handling	Product Family Code
910502042503	RC464B LED80S/TWH PSD W60L60 VPC PIP	-	RC464B
910502042603	RC464B LED80S/TWH PSD W60L60 VPC W	-	RC464B
910502042703	RC464B LED80S/TWH PSD W30L120 VPC PIP	-	RC464B
910502042803	RC464B LED80S/TWH PSD W30L120 VPC W	-	RC464B
910502042903	RC466B LED80S/TWH PSD W62L62 VPC PIP	-	RC466B
910502043003	RC466B LED80S/TWH PSD W62L62 VPC W	-	RC466B
910502043103	RC466B LED80S/TWH PSD W31L125 VPC PIP	-	RC466B
910502043203	RC466B LED80S/TWH PSD W31L125 VPC W	-	RC466B
910502054703	RC464B LED80S/TWH PSD W30L120 PCV PIP	-	RC464B
910502054803	RC464B LED80S/TWH PSD W60L60 PCV PIP	-	RC464B

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Mechanical and Housing

Order Code	Full Product Name	Geometry
910502042503	RC464B LED80S/TWH PSD W60L60 VPC PIP	Width 0.60 m, length 0.60 m
910502042603	RC464B LED80S/TWH PSD W60L60 VPC W	Width 0.60 m, length 0.60 m
910502042703	RC464B LED80S/TWH PSD W30L120 VPC PIP	Width 0.30 m, length 1.20 m
910502042803	RC464B LED80S/TWH PSD W30L120 VPC W	Width 0.30 m, length 1.20 m
910502042903	RC466B LED80S/TWH PSD W62L62 VPC PIP	Width 0.62 m, length 0.62 m

Order Code	Full Product Name	Geometry
910502043003	RC466B LED80S/TWH PSD W62L62 VPC W	Width 0.62 m, length 0.62 m
910502043103	RC466B LED80S/TWH PSD W31L125 VPC PIP	Width 0.31 m, length 1.25 m
910502043203	RC466B LED80S/TWH PSD W31L125 VPC W	Width 0.31 m, length 1.25 m
910502054703	RC464B LED80S/TWH PSD W30L120 PCV PIP	Width 0.30 m, length 1.20 m
910502054803	RC464B LED80S/TWH PSD W60L60 PCV PIP	Width 0.30 m, length 1.20 m

