



PowerBalance gen2 – sustainable performance

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 ceilings and bandraaster-type ceilings. PowerBalance is also available in a surface-mounted version.

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

Applications

- Offices
- Other indoor applications

Features

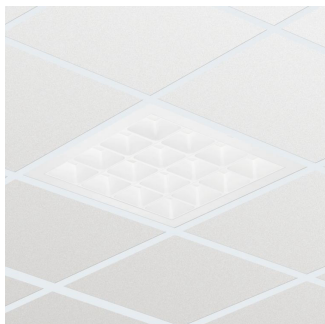
- Variety of mounting options
- Advanced LED technology
- Available in different shapes and sizes
- Office-norm-compliant

- The product is IP20 and, as such, is not protected against water ingress. Therefore we strongly recommend that the

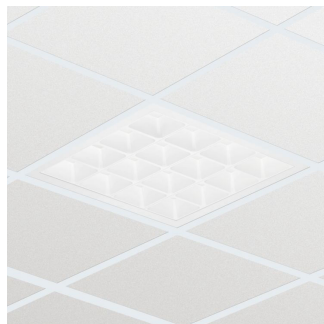
environment in which the luminaire is to be installed should be suitably checked

- 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

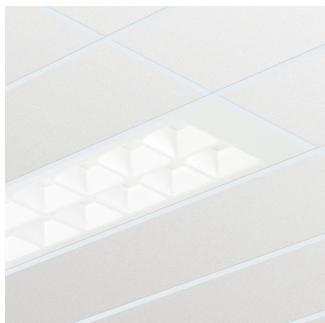
Versions



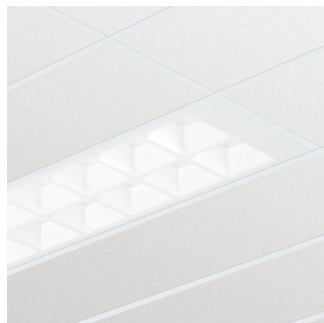
IPPR_RC460Bi_0049-Product photo



IPPR RC460Bi 0047

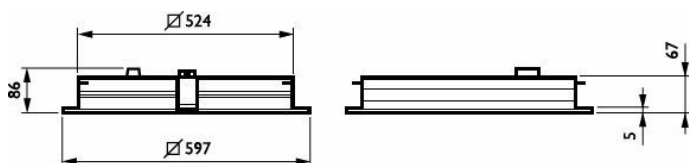


IPPR RC460Bi 0069

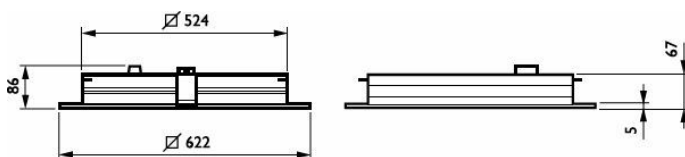


IPPR_RC460Bi_0065-Product photo

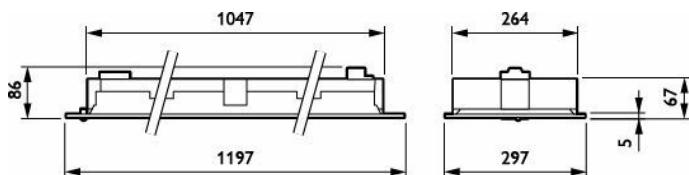
Dimensional drawing



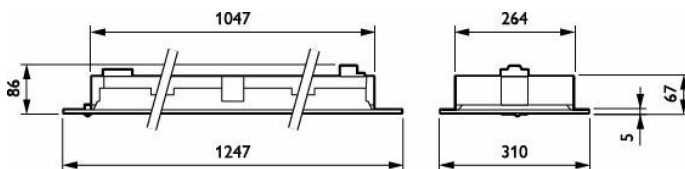
PowerBalance recessed - Tunable white - Power supply unit with DALI interface - Push-in connector and pull relief - -



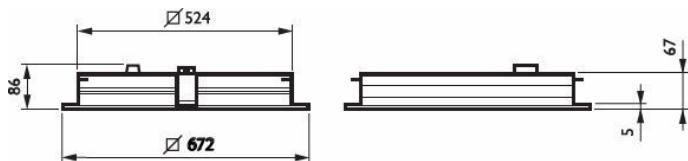
PowerBalance recessed - Tunable white - Power supply unit with DALI interface - Push-in connector and pull relief - -



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Product details



IPDP_RC460Bi_0153-Detail photo



IPDP_RC460Bi_0043-Detail photo



IPDP_RC460Bi_0049-Detail photo



IPDP_RC460Bi_0055-Detail photo

General Information	
Light source replaceable	No
Number of gear units	1 unit
Gear	-
Driver included	Yes
Service tag	Yes
Light Technical	
Number of light sources	1
Beam angle of light source	120 degree(s)
Optic type	Wide beam office compliant

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Suitable for random switching	No
Protection class IEC	Safety class I

Controls and Dimming

Dimmable	Yes
Maximum dim level	1%
Embedded control	-

Mechanical and Housing

Housing Color	White
Ingress protection code	IP20/40 [Finger-protected, Emitting surface]
Mech. impact protection code	IK03 [0.35 J reinforced]
Explosion hazard class	-
Optical cover type	Polycarbonate bowl/cover

Approval and Application

Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
CE mark	Yes
ENEC mark	ENEC mark
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	+10 to +35 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM ≤3

General Information

Order Code	Full Product Name	Lamp family code
98000900	RC463B 80S/TW9 DIA W62L62 VPC	-
98001600	RC468B 80S/TW9 DIA W67L67 VPC	-
98009200	RC468B 80S/TW9 DIA W67L67 VPC W3W2	-
96451100	RC461B 34S/940 DEIA W60L60 VPC	LED34S
96456600	RC461B 40S/940 DEIA W60L60 VPC	LED40S

Order Code	Full Product Name	Lamp family code
97998000	RC461B 80S/TW9 DIA W60L60 VPC ELD3	-
97999700	RC461B 80S/TW9 DIA W60L60 VPC ELD3 PIPSC	-
10924700	RC461B 28S/840 DEIA W60L60 VPC UE	-
97988100	RC463B 80S/TW9 DEIA W31L125 VPC	-
97994200	RC463B 80S/TW9 DEIA W31L125 CPC	-
97986700	RC461B 80S/TW9 DEIA W30L120 VPC	-
97987400	RC461B 80S/TW9 DEIA W30L120 VPC SC	-
10935300	RC461B 40S/UE840 DEIA W30L120 VPC	-

Light Technical

Order Code	Full Product Name	Luminous Flux	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Color rendering index (CRI)
98000900	RC463B 80S/TW9 DIA W62L62 VPC	8,000 lm	Tunable white 2700-6500 K	122 lm/W	>90
98001600	RC468B 80S/TW9 DIA W67L67 VPC	8,000 lm	Tunable white 2700-6500 K	122 lm/W	>90
98009200	RC468B 80S/TW9 DIA W67L67 VPC W3W2	8,000 lm	Tunable white 2700-6500 K	122 lm/W	>90
96451100	RC461B 34S/940 DEIA W60L60 VPC	3,400 lm	4000 K	142 lm/W	>90
96456600	RC461B 40S/940 DEIA W60L60 VPC	4,000 lm	4000 K	146 lm/W	>90
97998000	RC461B 80S/TW9 DIA W60L60 VPC ELD3	8,000 lm	Tunable white 2700-6500 K	122 lm/W	>90
97999700	RC461B 80S/TW9 DIA W60L60 VPC ELD3 PIPSC	8,000 lm	Tunable white 2700-6500 K	122 lm/W	>90
10924700	RC461B 28S/840 DEIA W60L60 VPC UE	2,800 lm	4000 K	173 lm/W	>80
97988100	RC463B 80S/TW9 DEIA W31L125 VPC	8,000 lm	Tunable white 2700-6500 K	122 lm/W	>90
97994200	RC463B 80S/TW9 DEIA W31L125 CPC	8,000 lm	Tunable white 2700-6500 K	122 lm/W	>90
97986700	RC461B 80S/TW9 DEIA W30L120 VPC	8,000 lm	Tunable white 2700-6500 K	122 lm/W	>90
97987400	RC461B 80S/TW9 DEIA W30L120 VPC SC	8,000 lm	Tunable white 2700-6500 K	122 lm/W	>90
10935300	RC461B 40S/UE840 DEIA W30L120 VPC	4,000 lm	4000 K	174 lm/W	>80

Operating and Electrical

Order Code	Full Product Name	Power Consumption
98000900	RC463B 80S/TW9 DIA W62L62 VPC	64 W
98001600	RC468B 80S/TW9 DIA W67L67 VPC	64 W
98009200	RC468B 80S/TW9 DIA W67L67 VPC W3W2	64 W
96451100	RC461B 34S/940 DEIA W60L60 VPC	24 W
96456600	RC461B 40S/940 DEIA W60L60 VPC	29 W
97998000	RC461B 80S/TW9 DIA W60L60 VPC ELD3	64 W
97999700	RC461B 80S/TW9 DIA W60L60 VPC ELD3 PIPSC	64 W
10924700	RC461B 28S/840 DEIA W60L60 VPC UE	16 W
97988100	RC463B 80S/TW9 DEIA W31L125 VPC	64 W
97994200	RC463B 80S/TW9 DEIA W31L125 CPC	64 W
97986700	RC461B 80S/TW9 DEIA W30L120 VPC	64 W
97987400	RC461B 80S/TW9 DEIA W30L120 VPC SC	64 W
10935300	RC461B 40S/UE840 DEIA W30L120 VPC	23 W

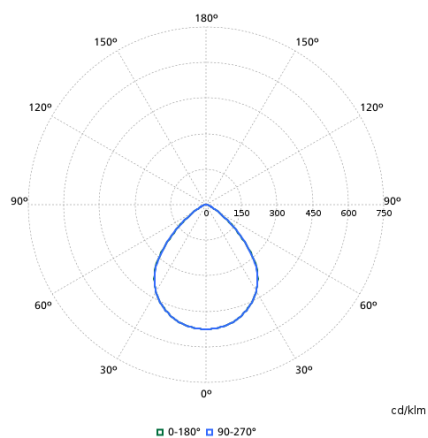
Emergency Operation

Order Code	Full Product Name	Central Emergency	Emergency lighting
98000900	RC463B 80S/TW9 DIA W62L62 VPC	No	-
98001600	RC468B 80S/TW9 DIA W67L67 VPC	No	-
98009200	RC468B 80S/TW9 DIA W67L67 VPC W3W2	No	-
96451100	RC461B 34S/940 DEIA W60L60 VPC	Yes	DC operated central emergency lighting
96456600	RC461B 40S/940 DEIA W60L60 VPC	Yes	DC operated central emergency lighting
97998000	RC461B 80S/TW9 DIA W60L60 VPC ELD3	No	Emergency lighting 3 hours duration with DALI interface
97999700	RC461B 80S/TW9 DIA W60L60 VPC ELD3 PIPSC	No	-
10924700	RC461B 28S/840 DEIA W60L60 VPC UE	Yes	DC operated central emergency lighting
97988100	RC463B 80S/TW9 DEIA W31L125 VPC	Yes	DC operated central emergency lighting
97994200	RC463B 80S/TW9 DEIA W31L125 CPC	Yes	DC operated central emergency lighting
97986700	RC461B 80S/TW9 DEIA W30L120 VPC	Yes	DC operated central emergency lighting
97987400	RC461B 80S/TW9 DEIA W30L120 VPC SC	Yes	DC operated central emergency lighting
10935300	RC461B 40S/UE840 DEIA W30L120 VPC	Yes	DC operated central emergency lighting

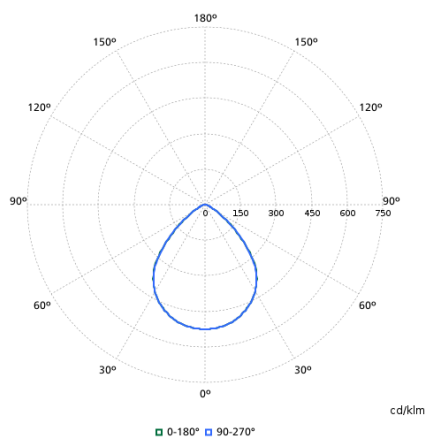
Product Data

Order Code	Full Product Name	Product family code
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98009200	RC468B 80S/TW9 DIA W67L67 VPC W3W2	RC468B
96451100	RC461B 34S/940 DEIA W60L60 VPC	RC461B
96456600	RC461B 40S/940 DEIA W60L60 VPC	RC461B
97998000	RC461B 80S/TW9 DIA W60L60 VPC ELD3	RC461B
97999700	RC461B 80S/TW9 DIA W60L60 VPC ELD3 PIPSC	RC461B
10924700	RC461B 28S/840 DEIA W60L60 VPC UE	RC461B
97988100	RC463B 80S/TW9 DEIA W31L125 VPC	RC463B
97994200	RC463B 80S/TW9 DEIA W31L125 CPC	RC463B
97986700	RC461B 80S/TW9 DEIA W30L120 VPC	RC461B
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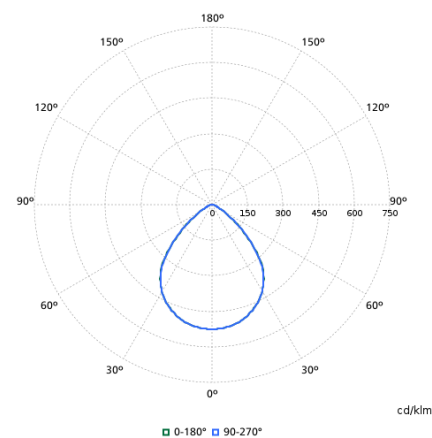
Polar normal diagrams



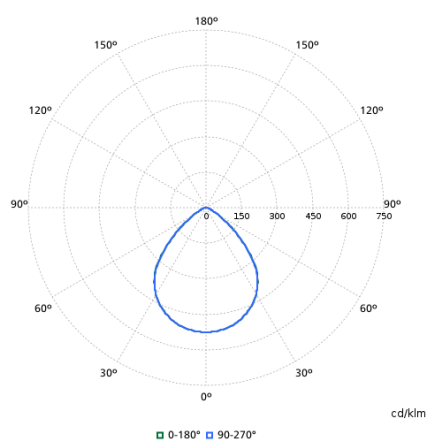
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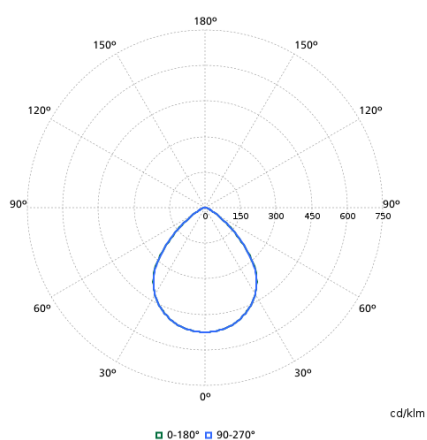
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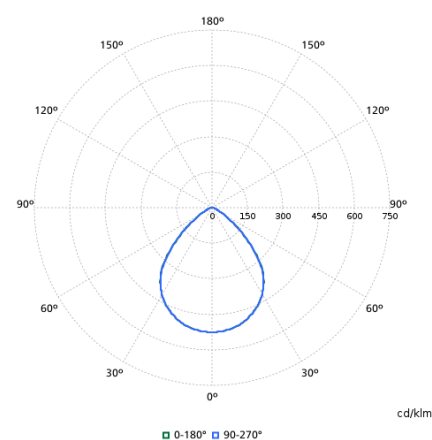
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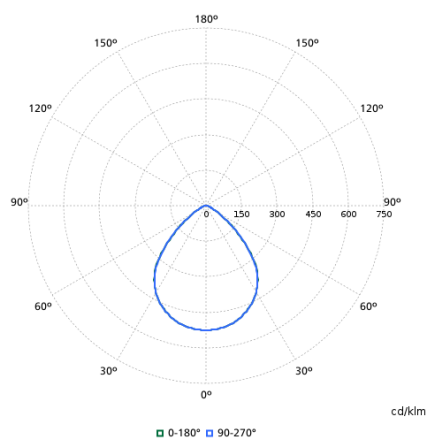
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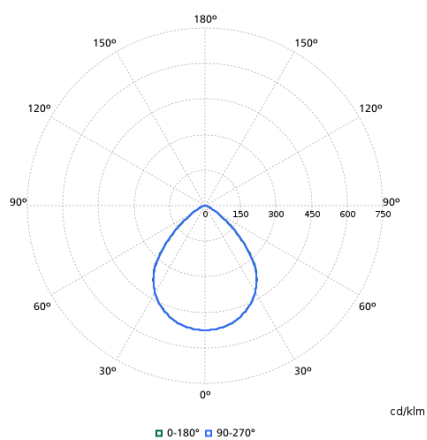
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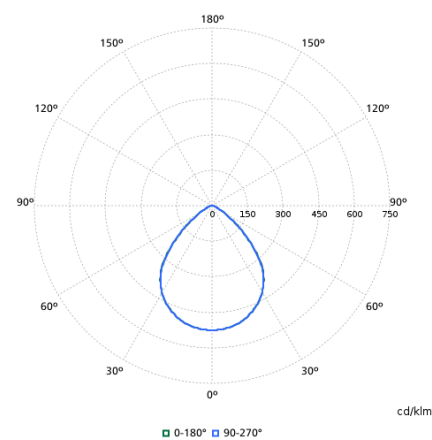
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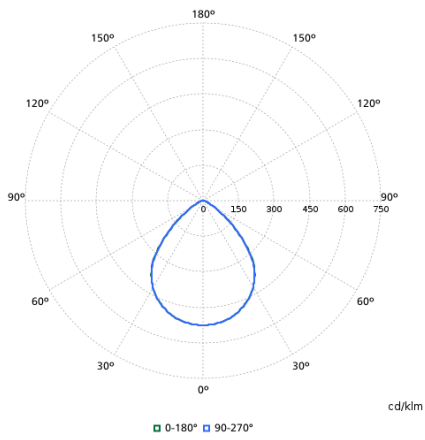
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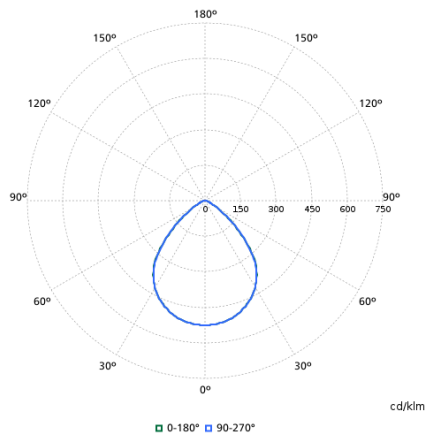
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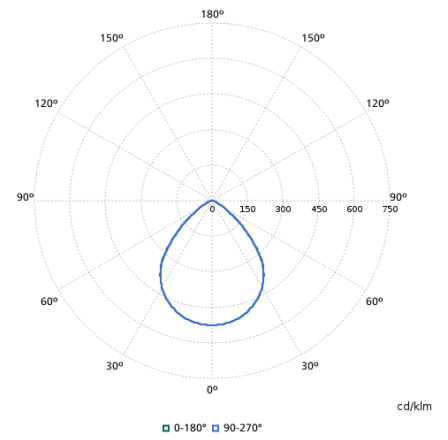
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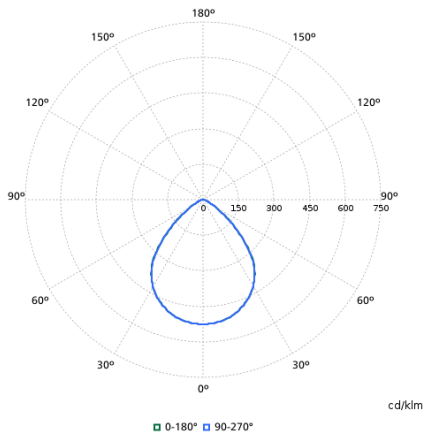
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