



PowerBalance gen2 – sustainable performance

PowerBalance gen2

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

Features

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

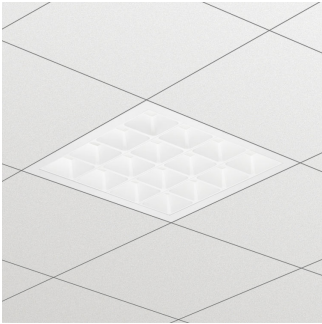
Application

- Offices
- Other indoor applications

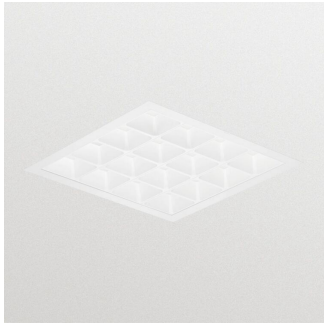
Warnings and Safety

- 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

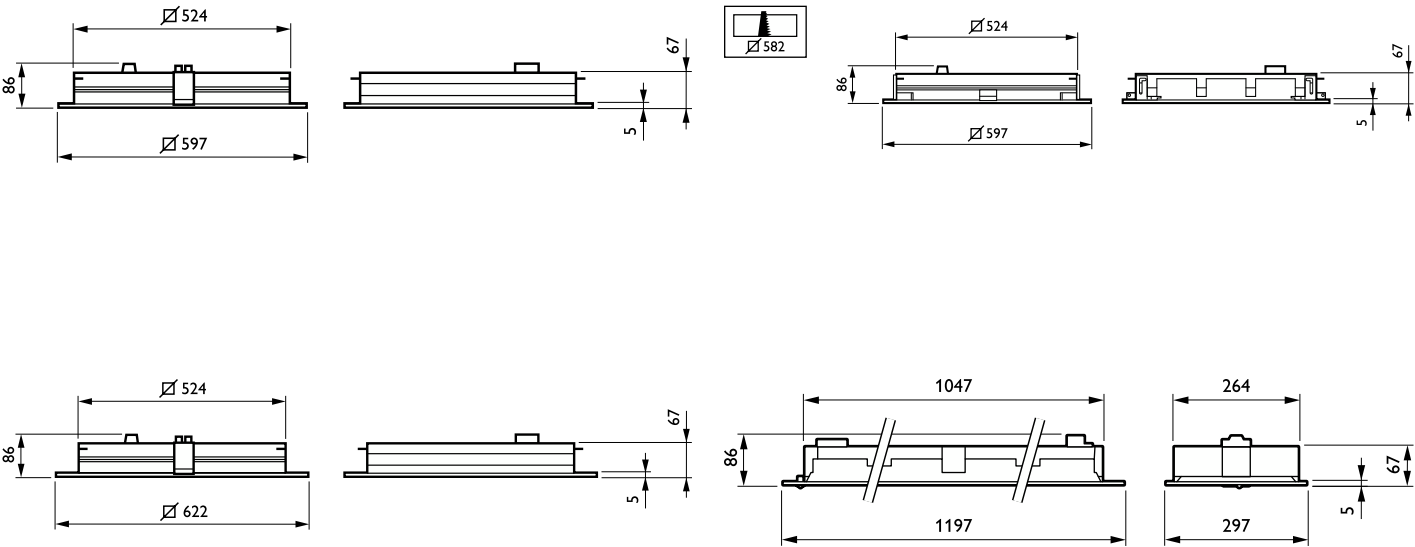


IPPR RC460Bi 0025

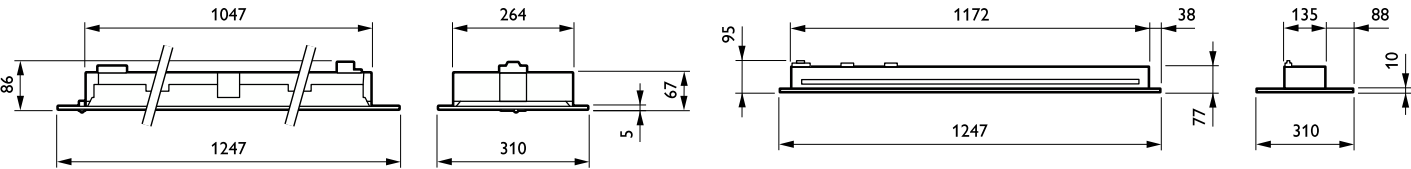


IPPR_RC460Bi_0043-Product photo

Dimensional drawing



Dimensional drawing



Product details



IPDP_RC460Bi_0153-Detail photo



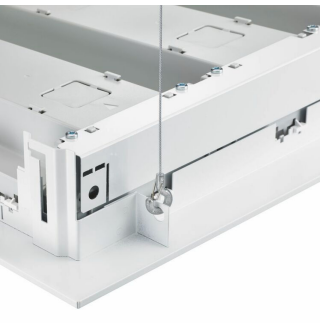
IPDP_RC460Bi_0039-Detail photo



IPDP_RC460Bi_0041-Detail photo



IPDP_RC460Bi_0043-Detail photo



IPDP_RC460Bi_0045-Detail photo

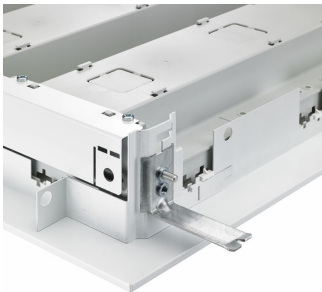


IPDP_RC460Bi_0047-Detail photo

Product details



IPDP_RC460Bi_0049-Detail photo



IPDP_RC460Bi_0051-Detail photo



IPDP_RC460Bi_0053-Detail photo



IPDP_RC460Bi_0054-Detail photo



IPDP_RC460Bi_0055-Detail photo



IPDP_RC460Bi_0073-Detail photo



IPDP_RC460Bi_0103-Detail photo

General Information	
Driver included	Yes
Gear	-
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
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	
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%

General Information

Order Code	Full Product Name	Lamp family code
96471900	RC461B 34S/940 PSD W60L60 CPC W3W2	LED34S
96483200	RC461B 34S/940 PSD W60L60 PCV	LED34S
96484900	RC463B 40S/940 PSD W62L62 VPC	LED40S
96604100	RC463B 28S/940 PSD W62L62 VPC	-
96605800	RC463B 34S/940 PSD W62L62 VPC	-
96676800	RC463B 28S/930 PSD W62L62 VPC	-
96451100	RC461B 34S/940 PSD W60L60 VPC	LED34S
96455900	RC461B 40S/940 PSD W60L60 VPC W3W2	LED40S
96456600	RC461B 40S/940 PSD W60L60 VPC	LED40S
96472600	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	LED40S
96475700	RC461B 34S/930 PSU W60L60 VPC	LED34S
96476400	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	LED34S
00567900	RC461B 40S/930 PSD W60L60 VPC	-
96442900	RC463B 40S/940 PSD W31L125 CPC	LED40S
96611900	RC463B 40S/940 PSD W31L125 VPC	-
97988100	RC463B 80S/TW9 DIA W31L125 VPC	-
96440500	RC461B 34S/930 PSD W30L120 VPC	LED34S
96441200	RC461B 40S/940 PSD W30L120 VPC	LED40S
96444300	RC461B 40S/940 PSD W30L120 VPC W3W2	LED40S
96447400	RC461B 34S/940 PSD W30L120 VPC	LED34S
97986700	RC461B 80S/TW9 DIA W30L120 VPC	-

Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	Number of light sources
96471900	RC461B 34S/940 PSD W60L60 CPC W3W2	4000 K	142 lm/W	3,400 lm	1
96483200	RC461B 34S/940 PSD W60L60 PCV	4000 K	142 lm/W	3,400 lm	1
96484900	RC463B 40S/940 PSD W62L62 VPC	4000 K	140 lm/W	4,000 lm	1
96604100	RC463B 28S/940 PSD W62L62 VPC	4000 K	141 lm/W	2,800 lm	-
96605800	RC463B 34S/940 PSD W62L62 VPC	4000 K	142 lm/W	3,400 lm	-
96676800	RC463B 28S/930 PSD W62L62 VPC	3000 K	133 lm/W	2,800 lm	-
96451100	RC461B 34S/940 PSD W60L60 VPC	4000 K	142 lm/W	3,400 lm	1
96455900	RC461B 40S/940 PSD W60L60 VPC W3W2	4000 K	140 lm/W	4,000 lm	1
96456600	RC461B 40S/940 PSD W60L60 VPC	4000 K	140 lm/W	4,000 lm	1
96472600	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	4000 K	140 lm/W	4,000 lm	1
96475700	RC461B 34S/930 PSU W60L60 VPC	3000 K	136 lm/W	3,400 lm	1

Operating and Electrical

Order Code	Full Product Name	Power Consumption
96471900	RC461B 34S/940 PSD W60L60 CPC W3W2	24 W
96483200	RC461B 34S/940 PSD W60L60 PCV	24 W
96484900	RC463B 40S/940 PSD W62L62 VPC	29 W
96604100	RC463B 28S/940 PSD W62L62 VPC	20 W
96605800	RC463B 34S/940 PSD W62L62 VPC	24 W
96676800	RC463B 28S/930 PSD W62L62 VPC	21 W
96451100	RC461B 34S/940 PSD W60L60 VPC	24 W
96455900	RC461B 40S/940 PSD W60L60 VPC W3W2	29 W
96456600	RC461B 40S/940 PSD W60L60 VPC	29 W
96472600	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	29 W
96475700	RC461B 34S/930 PSU W60L60 VPC	25 W

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	Number of light sources
96476400	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	4000 K	142 lm/W	3,400 lm	1
00567900	RC461B 40S/930 PSD W60L60 VPC	3000 K	133 lm/W	4,000 lm	-
96442900	RC463B 40S/940 PSD W31L125 CPC	4000 K	140 lm/W	4,000 lm	1
96611900	RC463B 40S/940 PSD W31L125 VPC	4000 K	140 lm/W	4,000 lm	-
97988100	RC463B 80S/TW9 DIA W31L125 VPC	Tunable white 2700-6500 K	122 lm/W	8,000 lm	-
96440500	RC461B 34S/930 PSD W30L120 VPC	3000 K	133 lm/W	3,400 lm	1
96441200	RC461B 40S/940 PSD W30L120 VPC	4000 K	140 lm/W	4,000 lm	1
96444300	RC461B 40S/940 PSD W30L120 VPC W3W2	4000 K	140 lm/W	4,000 lm	1
96447400	RC461B 34S/940 PSD W30L120 VPC	4000 K	142 lm/W	3,400 lm	1
97986700	RC461B 80S/TW9 DIA W30L120 VPC	Tunable white 2700-6500 K	122 lm/W	8,000 lm	-

Order Code	Full Product Name	Power Consumption
96476400	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	24 W
00567900	RC461B 40S/930 PSD W60L60 VPC	30 W
96442900	RC463B 40S/940 PSD W31L125 CPC	29 W
96611900	RC463B 40S/940 PSD W31L125 VPC	29 W
97988100	RC463B 80S/TW9 DIA W31L125 VPC	64 W
96440500	RC461B 34S/930 PSD W30L120 VPC	26 W
96441200	RC461B 40S/940 PSD W30L120 VPC	29 W
96444300	RC461B 40S/940 PSD W30L120 VPC W3W2	29 W
96447400	RC461B 34S/940 PSD W30L120 VPC	24 W
97986700	RC461B 80S/TW9 DIA W30L120 VPC	64 W

Controls and Dimming

Order Code	Full Product Name	Maximum dim	
		Dimmable	level
96471900	RC461B 34S/940 PSD W60L60 CPC W3W2	Yes	1%
96483200	RC461B 34S/940 PSD W60L60 PCV	Yes	1%
96484900	RC463B 40S/940 PSD W62L62 VPC	Yes	1%
96604100	RC463B 28S/940 PSD W62L62 VPC	Yes	1%
96605800	RC463B 34S/940 PSD W62L62 VPC	Yes	1%
96676800	RC463B 28S/930 PSD W62L62 VPC	Yes	1%
96451100	RC461B 34S/940 PSD W60L60 VPC	Yes	1%
96455900	RC461B 40S/940 PSD W60L60 VPC W3W2	Yes	1%
96456600	RC461B 40S/940 PSD W60L60 VPC	Yes	1%
96472600	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	Yes	1%
96475700	RC461B 34S/930 PSU W60L60 VPC	No	Not applicable

Order Code	Full Product Name	Maximum dim	
		Dimmable	level
96476400	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	Yes	1%
00567900	RC461B 40S/930 PSD W60L60 VPC	Yes	1%
96442900	RC463B 40S/940 PSD W31L125 CPC	Yes	1%
96611900	RC463B 40S/940 PSD W31L125 VPC	Yes	1%
97988100	RC463B 80S/TW9 DIA W31L125 VPC	Yes	1%
96440500	RC461B 34S/930 PSD W30L120 VPC	Yes	1%
96441200	RC461B 40S/940 PSD W30L120 VPC	Yes	1%
96444300	RC461B 40S/940 PSD W30L120 VPC W3W2	Yes	1%
96447400	RC461B 34S/940 PSD W30L120 VPC	Yes	1%
97986700	RC461B 80S/TW9 DIA W30L120 VPC	Yes	1%

Mechanical and Housing

Order Code	Full Product Name	Optical cover type
96471900	RC461B 34S/940 PSD W60L60 CPC W3W2	Polycarbonate bowl/cover
96483200	RC461B 34S/940 PSD W60L60 PCV	Polycarbonate bowl/cover
96484900	RC463B 40S/940 PSD W62L62 VPC	Polycarbonate bowl/cover
96604100	RC463B 28S/940 PSD W62L62 VPC	-
96605800	RC463B 34S/940 PSD W62L62 VPC	-
96676800	RC463B 28S/930 PSD W62L62 VPC	-
96451100	RC461B 34S/940 PSD W60L60 VPC	Polycarbonate bowl/cover
96455900	RC461B 40S/940 PSD W60L60 VPC W3W2	Polycarbonate bowl/cover
96456600	RC461B 40S/940 PSD W60L60 VPC	Polycarbonate bowl/cover
96472600	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	Polycarbonate bowl/cover

Order Code	Full Product Name	Optical cover type
96475700	RC461B 34S/930 PSU W60L60 VPC	Polycarbonate bowl/cover
96476400	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	Polycarbonate bowl/cover
00567900	RC461B 40S/930 PSD W60L60 VPC	-
96442900	RC463B 40S/940 PSD W31L125 CPC	Polycarbonate bowl/cover
96611900	RC463B 40S/940 PSD W31L125 VPC	-
97988100	RC463B 80S/TW9 DIA W31L125 VPC	-
96440500	RC461B 34S/930 PSD W30L120 VPC	Polycarbonate bowl/cover
96441200	RC461B 40S/940 PSD W30L120 VPC	Polycarbonate bowl/cover
96444300	RC461B 40S/940 PSD W30L120 VPC W3W2	Polycarbonate bowl/cover
96447400	RC461B 34S/940 PSD W30L120 VPC	Polycarbonate bowl/cover
97986700	RC461B 80S/TW9 DIA W30L120 VPC	-

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
96471900	RC461B 34S/940 PSD W60L60 CPC W3W2	(0.38, 0.38) SDCM ≤3
96483200	RC461B 34S/940 PSD W60L60 PCV	(0.38, 0.38) SDCM ≤3
96484900	RC463B 40S/940 PSD W62L62 VPC	(0.38, 0.38) SDCM ≤3
96604100	RC463B 28S/940 PSD W62L62 VPC	(0.38, 0.38) SDCM ≤3
96605800	RC463B 34S/940 PSD W62L62 VPC	(0.38, 0.38) SDCM ≤3
96676800	RC463B 28S/930 PSD W62L62 VPC	(0.43, 0.40) SDCM ≤3
96451100	RC461B 34S/940 PSD W60L60 VPC	(0.38, 0.38) SDCM ≤3
96455900	RC461B 40S/940 PSD W60L60 VPC W3W2	(0.38, 0.38) SDCM ≤3
96456600	RC461B 40S/940 PSD W60L60 VPC	(0.38, 0.38) SDCM ≤3
96472600	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	(0.38, 0.38) SDCM ≤3
96475700	RC461B 34S/930 PSU W60L60 VPC	(0.43, 0.40) SDCM ≤3

Order Code	Full Product Name	Initial chromaticity
96476400	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	(0.38, 0.38) SDCM ≤3
00567900	RC461B 40S/930 PSD W60L60 VPC	(0.43, 0.40) SDCM ≤3
96442900	RC463B 40S/940 PSD W31L125 CPC	(0.38, 0.38) SDCM ≤3
96611900	RC463B 40S/940 PSD W31L125 VPC	(0.38, 0.38) SDCM ≤3
97988100	RC463B 80S/TW9 DIA W31L125 VPC	(0.38, 0.38) SDCM ≤3
96440500	RC461B 34S/930 PSD W30L120 VPC	(0.43, 0.40) SDCM ≤3
96441200	RC461B 40S/940 PSD W30L120 VPC	(0.38, 0.38) SDCM ≤3
96444300	RC461B 40S/940 PSD W30L120 VPC W3W2	(0.38, 0.38) SDCM ≤3
96447400	RC461B 34S/940 PSD W30L120 VPC	(0.38, 0.38) SDCM ≤3
97986700	RC461B 80S/TW9 DIA W30L120 VPC	(0.38, 0.38) SDCM ≤3

Product Data

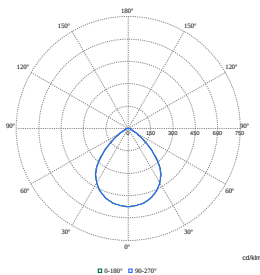
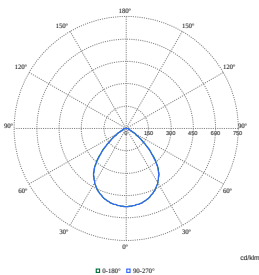
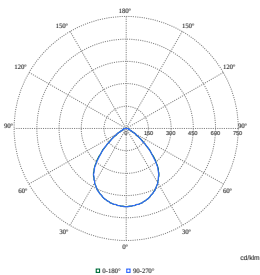
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96484900	RC463B 40S/940 PSD W62L62 VPC	RC463B

Order Code	Full Product Name	Product family code
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96605800	RC463B 34S/940 PSD W62L62 VPC	RC463B
96676800	RC463B 28S/930 PSD W62L62 VPC	RC463B

Order Code	Full Product Name	Product family code
96451100	RC461B 34S/940 PSD W60L60 VPC	RC461B
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96456600	RC461B 40S/940 PSD W60L60 VPC	RC461B
96472600	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	RC461B
96475700	RC461B 34S/930 PSU W60L60 VPC	RC461B
96476400	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	RC461B
00567900	RC461B 40S/930 PSD W60L60 VPC	RC461B
96442900	RC463B 40S/940 PSD W31L125 CPC	RC463B

Order Code	Full Product Name	Product family code
96611900	RC463B 40S/940 PSD W31L125 VPC	RC463B
97988100	RC463B 80S/TW9 DIA W31L125 VPC	RC463B
96440500	RC461B 34S/930 PSD W30L120 VPC	RC461B
96441200	RC461B 40S/940 PSD W30L120 VPC	RC461B
96444300	RC461B 40S/940 PSD W30L120 VPC W3W2	RC461B
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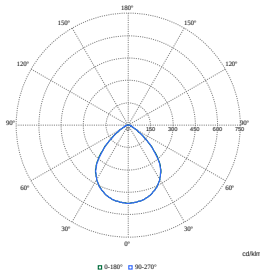
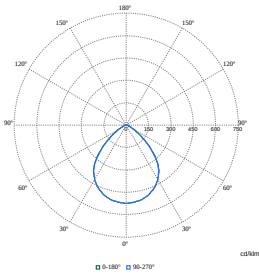
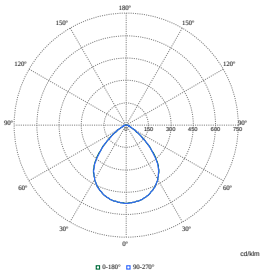
Polar Wide Diagrams



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Polar Normal (separate) - RC460BP - 910505100235

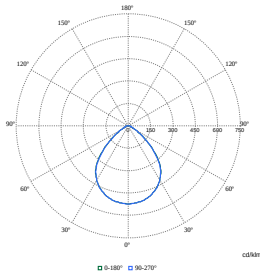
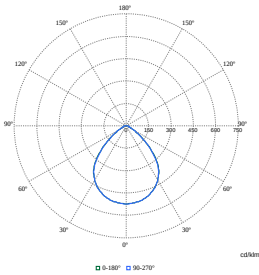
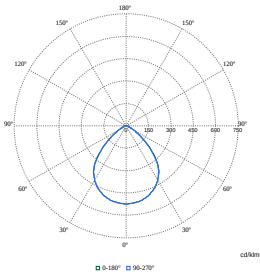
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Polar Normal (separate) - RC460BN - 910505100265

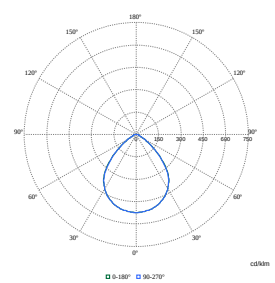
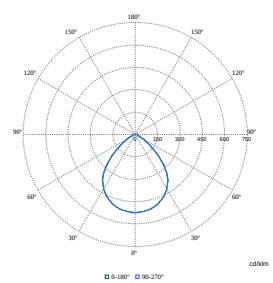
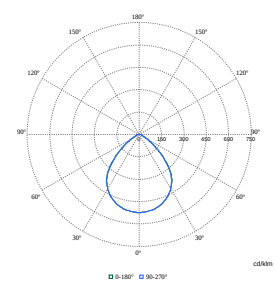


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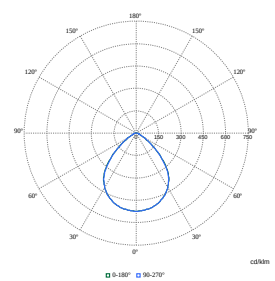
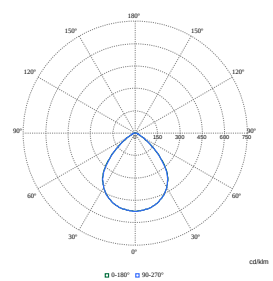
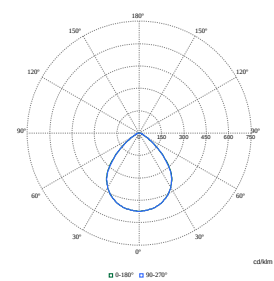
Polar Wide Diagrams



Polar Normal (separate) - RC460BP - 910505100241

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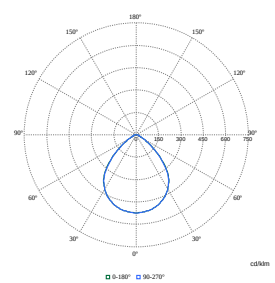
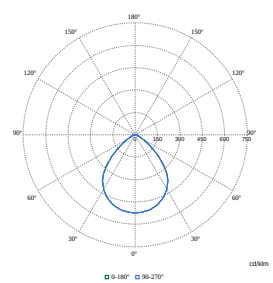
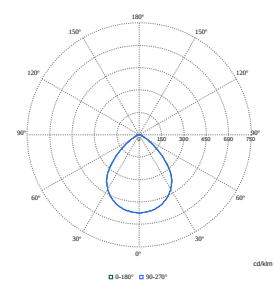
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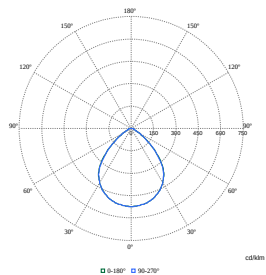


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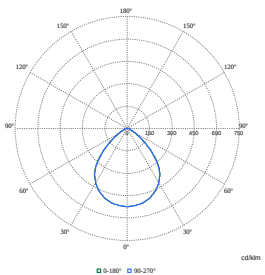
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Polar Normal (separate) - RC460BP - 910505101668

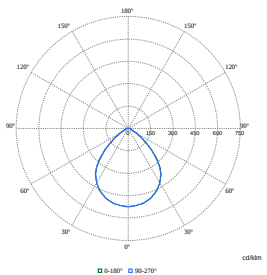
Polar Wide Diagrams



Polar Normal (separate) - RC460BP - 910505101666



Polar Normal (separate) - RC460BN - 910505100249



Polar Normal (separate) - RC460BN - 910505100278

