



Philips PowerBalance Gen2: sustainable performance

PowerBalance gen2

When it comes to lighting office spaces with LED luminaires, businesses are willing to invest in sustainability, provided they get a payback on their investment. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. Philips PowerBalance Gen2 is our most energy-efficient, office-compliant LED luminaire. Designed for circularity and enhanced wellbeing, this office luminaire also promises future-proof connectivity. State-of-the-art efficacy (at CRI >90), upgradability features, a long lifetime, repairability, and design for recyclability make PowerBalance Gen2 a true 'green choice'. One that also delivers significantly lower operational costs to ensure an attractive payback that meets the needs of businesses and the specification market. The Gen2 architecture in the latest PowerBalance range has enabled us to create a range of highly-versatile modular and semi-modular luminaires. These LED luminaires can be easily mounted in ceilings with an exposed T-bar or concealed T-bar, as well as plaster ceilings and bandrastrer-type ceilings. PowerBalance is a solution with superior lighting specifications combined with a best-in-class connectivity designed for Circularity & enhanced Wellbeing using Interact Pro - all with a sustainable approach to high-performance office lighting.

Benefits

- Extremely-efficient LED luminaire with upto 174 lm/W
- Complies with office norms
- Comfortable, glare-free light
- Significantly reduces operational costs for an attractive payback time
- Sustainable and best-in-class connected offer

Features

- Best-in-class efficacy up to 174lm/W supports green building design and energy saving subsidy criteria
- 3000K, 4000K, Tunable White options with CRI >90
- Long lifetime 50,000 hours @L90
- Prepared for circularity (no glue, replaceable electronics, upgradable system, efficient and long lifetime)
- Environmental Product Declaration (EPD) guide
- Connected system ready with Interact Pro scalable platform using integrated sensors and/or wireless drivers for data collection, occupancy, daylight regulation and wayfinding

Application

- Offices
- Education
- Healthcare

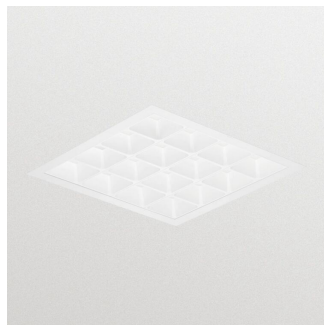
Warnings and Safety

- 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

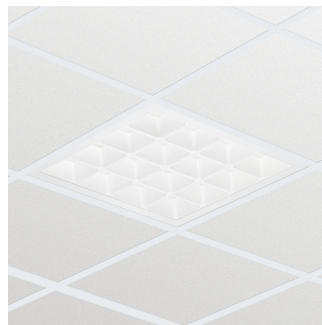
Versions



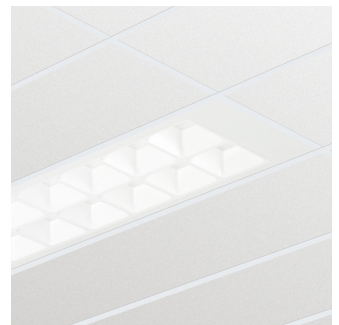
IPPR RC460Bi 0025



IPPR_RC460Bi_0043-Product photo

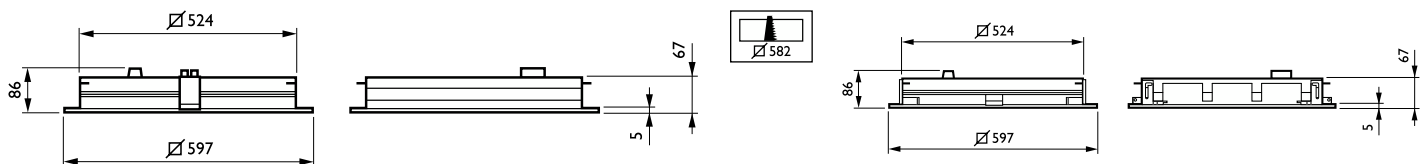


IPPR RC460Bi 0047

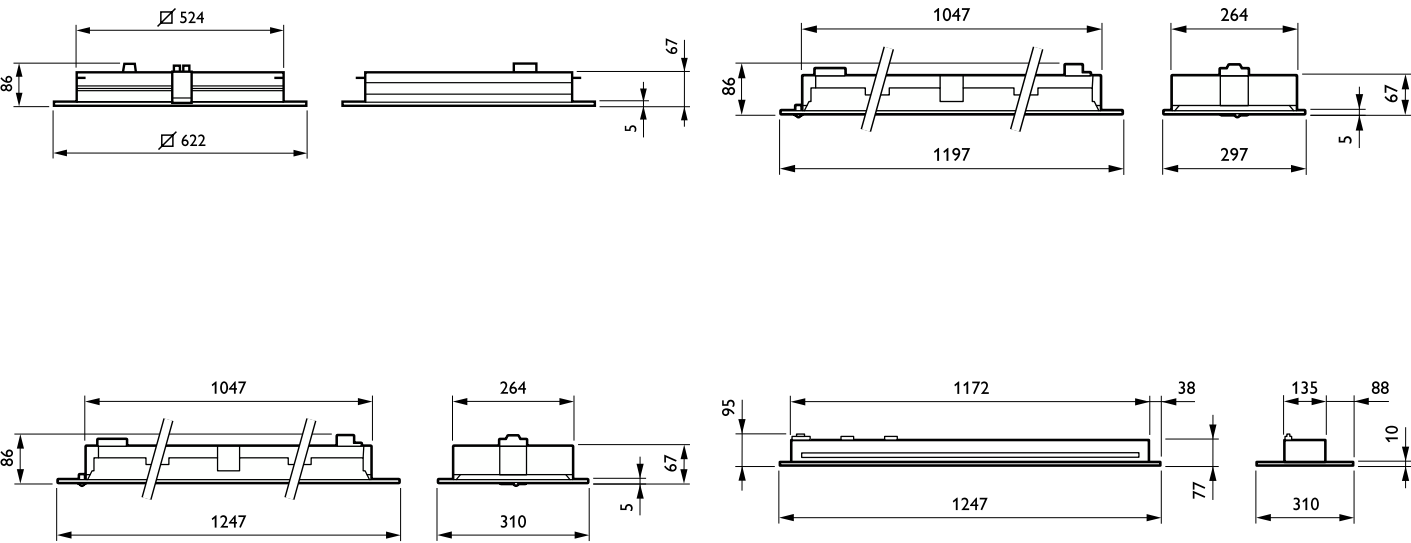


IPPR RC460Bi 0069

Dimensional drawing



Dimensional drawing



Product details



IPDP_RC460Bi_0153-Detail photo



IPDP_RC460Bi_0039-Detail photo

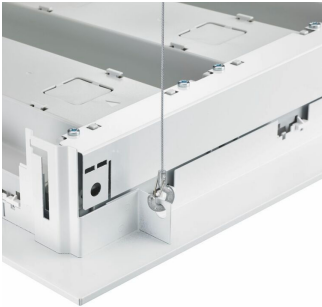


IPDP_RC460Bi_0041-Detail photo



IPDP_RC460Bi_0043-Detail photo

Product details



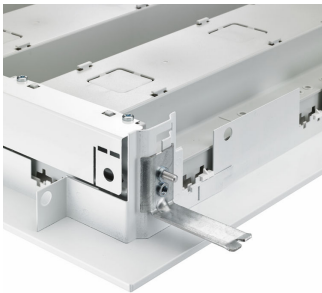
IPDP_RC460Bi_0045-Detail photo



IPDP_RC460Bi_0047-Detail photo



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

Product details

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
910505100265	RC461B 34S/940 PSD W60L60 CPC W3W2	LED34S
910505100277	RC461B 34S/940 PSD W60L60 PCV	LED34S
910505100278	RC463B 40S/940 PSD W62L62 VPC	LED40S
910505100416	RC463B 28S/940 PSD W62L62 VPC	-
910505100417	RC463B 34S/940 PSD W62L62 VPC	-
910505100488	RC463B 28S/930 PSD W62L62 VPC	-
910505100245	RC461B 34S/940 PSD W60L60 VPC	LED34S
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	LED40S
910505100250	RC461B 40S/940 PSD W60L60 VPC	LED40S
910505100266	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	LED40S
910505100269	RC461B 34S/930 PSU W60L60 VPC	LED34S
910505100270	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	LED34S
910505100595	RC461B 40S/930 PSD W60L60 VPC	-
910505100236	RC463B 40S/940 PSD W31L125 CPC	LED40S
910505100423	RC463B 40S/940 PSD W31L125 VPC	-
910505101668	RC463B 80S/TW9 DIA W31L125 VPC	-
910505100234	RC461B 34S/930 PSD W30L120 VPC	LED34S
910505100235	RC461B 40S/940 PSD W30L120 VPC	LED40S
910505100238	RC461B 40S/940 PSD W30L120 VPC W3W2	LED40S
910505100241	RC461B 34S/940 PSD W30L120 VPC	LED34S
910505101666	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
910505100265	RC461B 34S/940 PSD W60L60 CPC W3W2	4000 K	142 lm/W	3,400 lm	1
910505100277	RC461B 34S/940 PSD W60L60 PCV	4000 K	142 lm/W	3,400 lm	1
910505100278	RC463B 40S/940 PSD W62L62 VPC	4000 K	140 lm/W	4,000 lm	1
910505100416	RC463B 28S/940 PSD W62L62 VPC	4000 K	141 lm/W	2,800 lm	-
910505100417	RC463B 34S/940 PSD W62L62 VPC	4000 K	142 lm/W	3,400 lm	-
910505100488	RC463B 28S/930 PSD W62L62 VPC	3000 K	133 lm/W	2,800 lm	-
910505100245	RC461B 34S/940 PSD W60L60 VPC	4000 K	142 lm/W	3,400 lm	1
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	4000 K	140 lm/W	4,000 lm	1
910505100250	RC461B 40S/940 PSD W60L60 VPC	4000 K	140 lm/W	4,000 lm	1
910505100266	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	4000 K	140 lm/W	4,000 lm	1
910505100269	RC461B 34S/930 PSU W60L60 VPC	3000 K	136 lm/W	3,400 lm	1

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	Number of light sources
910505100270	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	4000 K	142 lm/W	3,400 lm	1
910505100595	RC461B 40S/930 PSD W60L60 VPC	3000 K	133 lm/W	4,000 lm	-
910505100236	RC463B 40S/940 PSD W31L125 CPC	4000 K	140 lm/W	4,000 lm	1
910505100423	RC463B 40S/940 PSD W31L125 VPC	4000 K	140 lm/W	4,000 lm	-
910505101668	RC463B 80S/TW9 DIA W31L125 VPC	Tunable white 2700-6500 K	122 lm/W	8,000 lm	-
910505100234	RC461B 34S/930 PSD W30L120 VPC	3000 K	133 lm/W	3,400 lm	1
910505100235	RC461B 40S/940 PSD W30L120 VPC	4000 K	140 lm/W	4,000 lm	1
910505100238	RC461B 40S/940 PSD W30L120 VPC W3W2	4000 K	140 lm/W	4,000 lm	1
910505100241	RC461B 34S/940 PSD W30L120 VPC	4000 K	142 lm/W	3,400 lm	1
910505101666	RC461B 80S/TW9 DIA W30L120 VPC	Tunable white 2700-6500 K	122 lm/W	8,000 lm	-

Operating and Electrical

Order Code	Full Product Name	Power Consumption
910505100265	RC461B 34S/940 PSD W60L60 CPC W3W2	24 W
910505100277	RC461B 34S/940 PSD W60L60 PCV	24 W
910505100278	RC463B 40S/940 PSD W62L62 VPC	29 W
910505100416	RC463B 28S/940 PSD W62L62 VPC	20 W
910505100417	RC463B 34S/940 PSD W62L62 VPC	24 W
910505100488	RC463B 28S/930 PSD W62L62 VPC	21 W
910505100245	RC461B 34S/940 PSD W60L60 VPC	24 W
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	29 W
910505100250	RC461B 40S/940 PSD W60L60 VPC	29 W

Order Code	Full Product Name	Power Consumption
910505100266	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	29 W
910505100269	RC461B 34S/930 PSU W60L60 VPC	25 W
910505100270	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	24 W
910505100595	RC461B 40S/930 PSD W60L60 VPC	30 W
910505100236	RC463B 40S/940 PSD W31L125 CPC	29 W
910505100423	RC463B 40S/940 PSD W31L125 VPC	29 W
910505101668	RC463B 80S/TW9 DIA W31L125 VPC	64 W
910505100234	RC461B 34S/930 PSD W30L120 VPC	26 W
910505100235	RC461B 40S/940 PSD W30L120 VPC	29 W

Order Code	Full Product Name	Power Consumption
910505100238	RC461B 40S/940 PSD W30L120 VPC W3W2	29 W
910505100241	RC461B 34S/940 PSD W30L120 VPC	24 W

Controls and Dimming

Order Code	Full Product Name	Maximum dim	
		Dimmable	level
910505100265	RC461B 34S/940 PSD W60L60 CPC W3W2	Yes	1%
910505100277	RC461B 34S/940 PSD W60L60 PCV	Yes	1%
910505100278	RC463B 40S/940 PSD W62L62 VPC	Yes	1%
910505100416	RC463B 28S/940 PSD W62L62 VPC	Yes	1%
910505100417	RC463B 34S/940 PSD W62L62 VPC	Yes	1%
910505100488	RC463B 28S/930 PSD W62L62 VPC	Yes	1%
910505100245	RC461B 34S/940 PSD W60L60 VPC	Yes	1%
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	Yes	1%
910505100250	RC461B 40S/940 PSD W60L60 VPC	Yes	1%
910505100266	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	Yes	1%

Mechanical and Housing

Order Code	Full Product Name	Optical cover type
910505100265	RC461B 34S/940 PSD W60L60 CPC W3W2	Polycarbonate bowl/cover
910505100277	RC461B 34S/940 PSD W60L60 PCV	Polycarbonate bowl/cover
910505100278	RC463B 40S/940 PSD W62L62 VPC	Polycarbonate bowl/cover
910505100416	RC463B 28S/940 PSD W62L62 VPC	-
910505100417	RC463B 34S/940 PSD W62L62 VPC	-
910505100488	RC463B 28S/930 PSD W62L62 VPC	-
910505100245	RC461B 34S/940 PSD W60L60 VPC	Polycarbonate bowl/cover
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	Polycarbonate bowl/cover
910505100250	RC461B 40S/940 PSD W60L60 VPC	Polycarbonate bowl/cover
910505100266	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	Polycarbonate bowl/cover
910505100269	RC461B 34S/930 PSU W60L60 VPC	Polycarbonate bowl/cover

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
910505100265	RC461B 34S/940 PSD W60L60 CPC W3W2	(0.38, 0.38) SDCM ≤3
910505100277	RC461B 34S/940 PSD W60L60 PCV	(0.38, 0.38) SDCM ≤3
910505100278	RC463B 40S/940 PSD W62L62 VPC	(0.38, 0.38) SDCM ≤3
910505100416	RC463B 28S/940 PSD W62L62 VPC	(0.38, 0.38) SDCM ≤3
910505100417	RC463B 34S/940 PSD W62L62 VPC	(0.38, 0.38) SDCM ≤3
910505100488	RC463B 28S/930 PSD W62L62 VPC	(0.43, 0.40) SDCM ≤3
910505100245	RC461B 34S/940 PSD W60L60 VPC	(0.38, 0.38) SDCM ≤3
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	(0.38, 0.38) SDCM ≤3
910505100250	RC461B 40S/940 PSD W60L60 VPC	(0.38, 0.38) SDCM ≤3
910505100266	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	(0.38, 0.38) SDCM ≤3
910505100269	RC461B 34S/930 PSU W60L60 VPC	(0.43, 0.40) SDCM ≤3

Order Code	Full Product Name	Power Consumption
910505101666	RC461B 80S/TW9 DIA W30L120 VPC	64 W

Order Code	Full Product Name	Maximum dim	
		Dimmable	level
910505100269	RC461B 34S/930 PSU W60L60 VPC	No	Not applicable
910505100270	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	Yes	1%
910505100595	RC461B 40S/930 PSD W60L60 VPC	Yes	1%
910505100236	RC463B 40S/940 PSD W31L125 CPC	Yes	1%
910505100423	RC463B 40S/940 PSD W31L125 VPC	Yes	1%
910505101668	RC463B 80S/TW9 DIA W31L125 VPC	Yes	1%
910505100234	RC461B 34S/930 PSD W30L120 VPC	Yes	1%
910505100235	RC461B 40S/940 PSD W30L120 VPC	Yes	1%
910505100238	RC461B 40S/940 PSD W30L120 VPC W3W2	Yes	1%
910505100241	RC461B 34S/940 PSD W30L120 VPC	Yes	1%
910505101666	RC461B 80S/TW9 DIA W30L120 VPC	Yes	1%

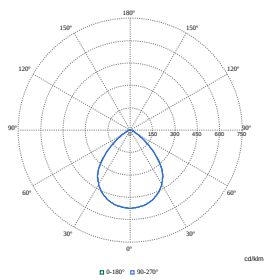
Order Code	Full Product Name	Optical cover type
910505100270	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	Polycarbonate bowl/cover
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910505100236	RC463B 40S/940 PSD W31L125 CPC	Polycarbonate bowl/cover
910505100423	RC463B 40S/940 PSD W31L125 VPC	-
910505101668	RC463B 80S/TW9 DIA W31L125 VPC	-
910505100234	RC461B 34S/930 PSD W30L120 VPC	Polycarbonate bowl/cover
910505100235	RC461B 40S/940 PSD W30L120 VPC	Polycarbonate bowl/cover
910505100238	RC461B 40S/940 PSD W30L120 VPC W3W2	Polycarbonate bowl/cover
910505100241	RC461B 34S/940 PSD W30L120 VPC	Polycarbonate bowl/cover
910505101666	RC461B 80S/TW9 DIA W30L120 VPC	-

Order Code	Full Product Name	Initial chromaticity
910505100270	RC461B 34S/940 PSD W60L60 VPC W3W2 SC	(0.38, 0.38) SDCM ≤3
910505100595	RC461B 40S/930 PSD W60L60 VPC	(0.43, 0.40) SDCM ≤3
910505100236	RC463B 40S/940 PSD W31L125 CPC	(0.38, 0.38) SDCM ≤3
910505100423	RC463B 40S/940 PSD W31L125 VPC	(0.38, 0.38) SDCM ≤3
910505101668	RC463B 80S/TW9 DIA W31L125 VPC	(0.38, 0.38) SDCM ≤3
910505100234	RC461B 34S/930 PSD W30L120 VPC	(0.43, 0.40) SDCM ≤3
910505100235	RC461B 40S/940 PSD W30L120 VPC	(0.38, 0.38) SDCM ≤3
910505100238	RC461B 40S/940 PSD W30L120 VPC W3W2	(0.38, 0.38) SDCM ≤3
910505100241	RC461B 34S/940 PSD W30L120 VPC	(0.38, 0.38) SDCM ≤3
910505101666	RC461B 80S/TW9 DIA W30L120 VPC	(0.38, 0.38) SDCM ≤3

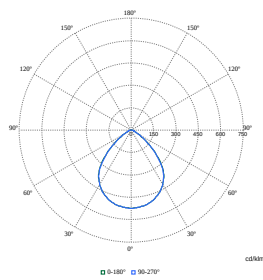
Product Data

Order Code	Full Product Name	Product family code	Order Code	Full Product Name	Product family code
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910505100277	RC461B 34S/940 PSD W60L60 PCV	RC461B	910505100595	RC461B 40S/930 PSD W60L60 VPC	RC461B
910505100278	RC463B 40S/940 PSD W62L62 VPC	RC463B	910505100236	RC463B 40S/940 PSD W31L125 CPC	RC463B
910505100416	RC463B 28S/940 PSD W62L62 VPC	RC463B	910505100423	RC463B 40S/940 PSD W31L125 VPC	RC463B
910505100417	RC463B 34S/940 PSD W62L62 VPC	RC463B	910505101668	RC463B 80S/TW9 DIA W31L125 VPC	RC463B
910505100488	RC463B 28S/930 PSD W62L62 VPC	RC463B	910505100234	RC461B 34S/930 PSD W30L120 VPC	RC461B
910505100245	RC461B 34S/940 PSD W60L60 VPC	RC461B	910505100235	RC461B 40S/940 PSD W30L120 VPC	RC461B
910505100249	RC461B 40S/940 PSD W60L60 VPC W3W2	RC461B	910505100238	RC461B 40S/940 PSD W30L120 VPC W3W2	RC461B
910505100250	RC461B 40S/940 PSD W60L60 VPC	RC461B	910505100241	RC461B 34S/940 PSD W30L120 VPC	RC461B
910505100266	RC461B 40S/940 PSD W60L60 VPC W3W2 AIR	RC461B	910505101666	RC461B 80S/TW9 DIA W30L120 VPC	RC461B
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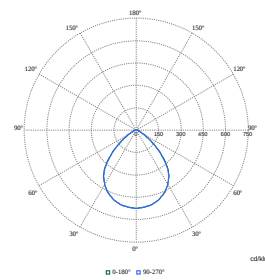
Polar Wide Diagrams



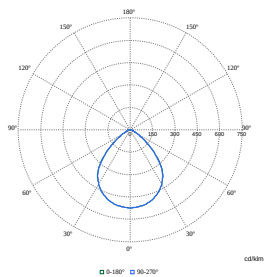
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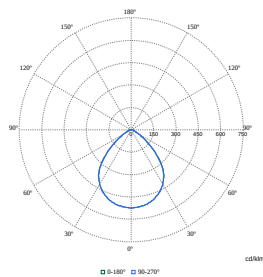
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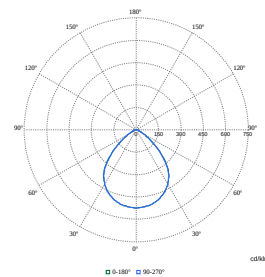
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Polar Normal (separate) - RC460BN - 910505100266

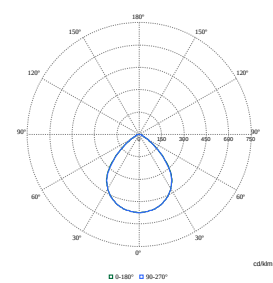
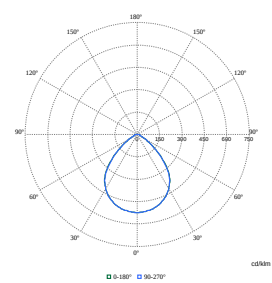
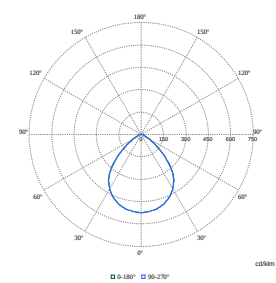


Polar Normal (separate) - RC460BN - 910505100269



Polar Normal (separate) - RC460BN - 910505100265

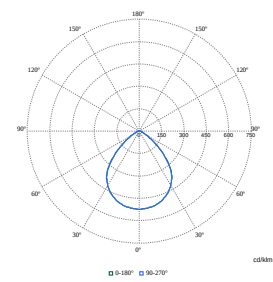
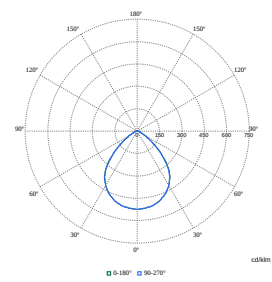
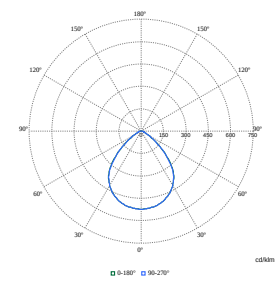
Polar Wide Diagrams



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Polar Normal (separate) - RC460BN - 910505100245

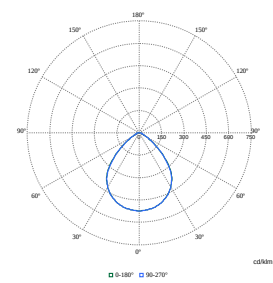
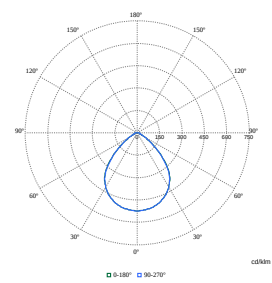
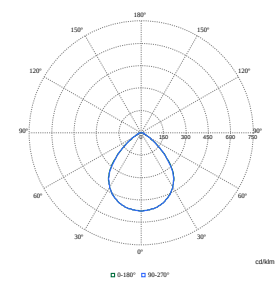
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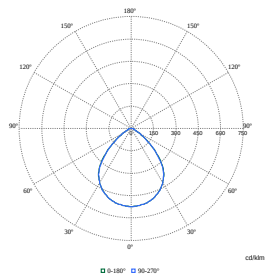


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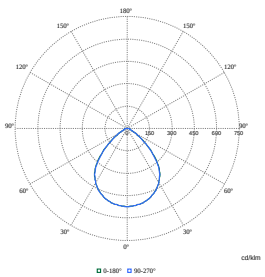
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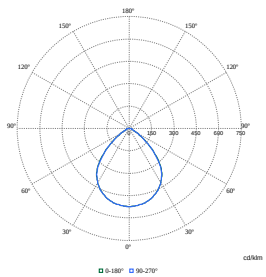
Polar Wide Diagrams



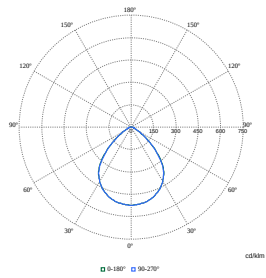
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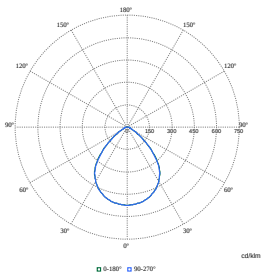
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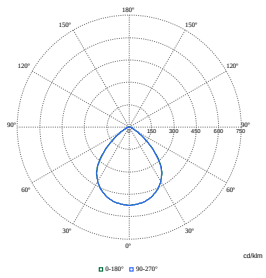
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Polar Normal (separate) - RC460BP - 910505101666



Polar Normal (separate) - RC460BN - 910505100249



Polar Normal (separate) - RC460BN - 910505100278

