PHILIPS

CoreLine Highbay Gen5

9243999



Install smarter, finish sooner. Choose long-lasting reliability and performance

CoreLine Highbay Gen5 delivers on the CoreLine promise of innovative, easy-to-use and high-quality luminaires. A reliable, highly-efficient luminaire with a very long-lifetime, it delivers great energy savings and requires less maintenance. At the same time, CoreLine Highbay is very easy to handle. The luminaire can be installed on your existing grid and the electrical connection is a straightforward task, with no need to open the luminaire and an external IP65 connector. With a choice of two beam angles: narrow and wide beam, you can adjust your lighting plan to suit your exact needs. This range also includes Interact Ready luminaires with integrated wireless communications and integrated movement and daylight sensors. So CoreLine Highbay Gen5 is ready to be used with any Interact connected lighting system.

Benefits

- Saves on energy and maintenance costs
- Easy installation - single suspension hook and external connector, additional mounting bracket for more flexibility
- Ideal for general application projects, with robust design and a high water and dust-proof rating (IP65)
- Choice of four product types: BY121P, BY122P, BY120P and BY122X

Applications

- General manufacturing
- Exhibition halls
- Warehouses and logistics centers
- High-ceiling lounges

Features

- Long lifetime and high efficiency: 50,000 hours with flux at 85% min. compared to initial level; up to 160lm/W
- Choice of beam options: narrow and wide beam, for low glare without additional accessories
- Modern, high-quality die-cast aluminum housing
- Single point mounting and IP65 external, pre-mounted electrical connector
- Optional versions: DALI dimming, integrated wireless connectivity (Interact Ready)

Versions



Standard product photo, CoreLine highbay gen5, BY122P



Standard product photo, CoreLine highbay gen5, BY121P

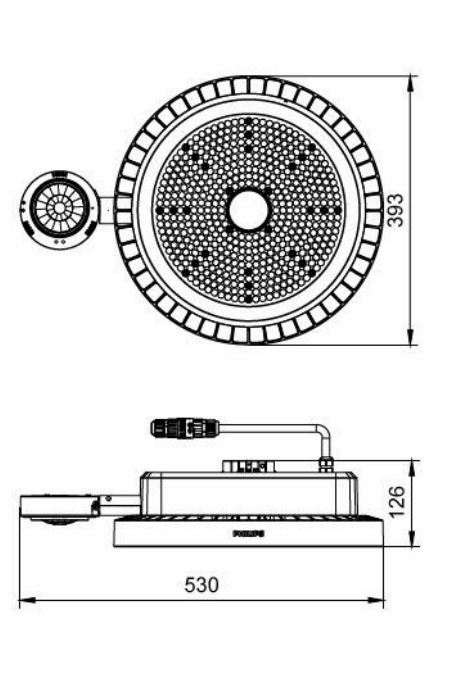


Standard product photo, CoreLine highbay gen5, BY120P

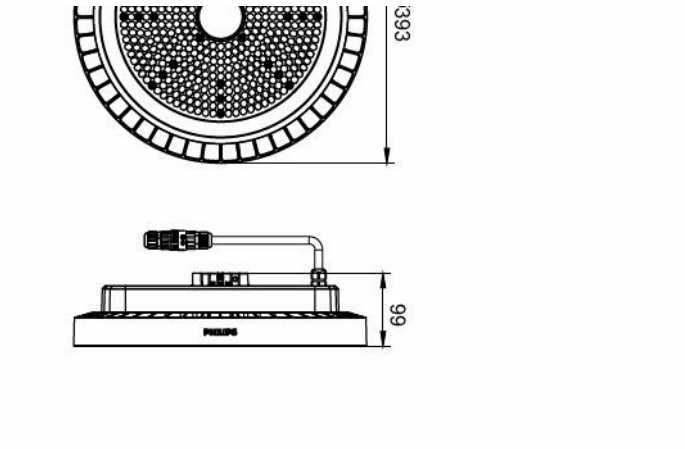


Standard product photo, CoreLine highbay gen5, BY122X

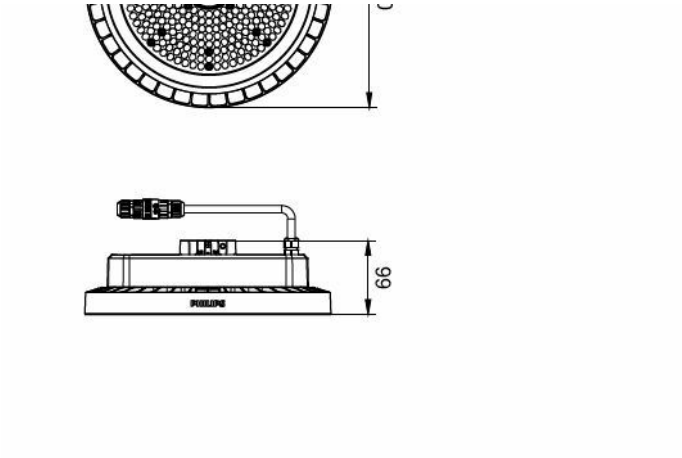
Dimensional drawing



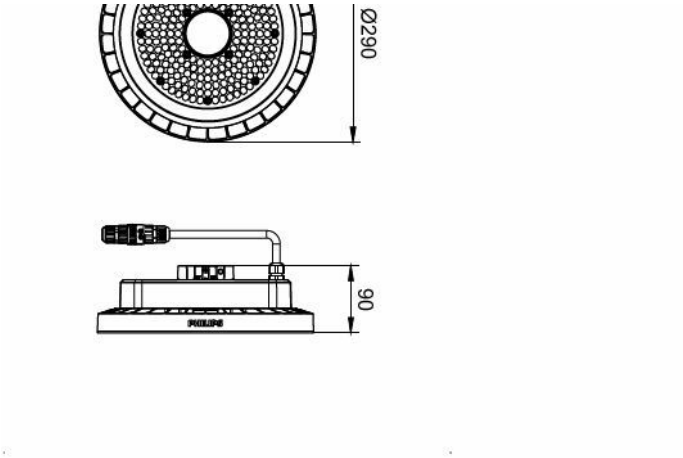
CoreLine Highbay Gen5 - Sensor ready driver InterAct System ready - Beam angle 55° - 55°



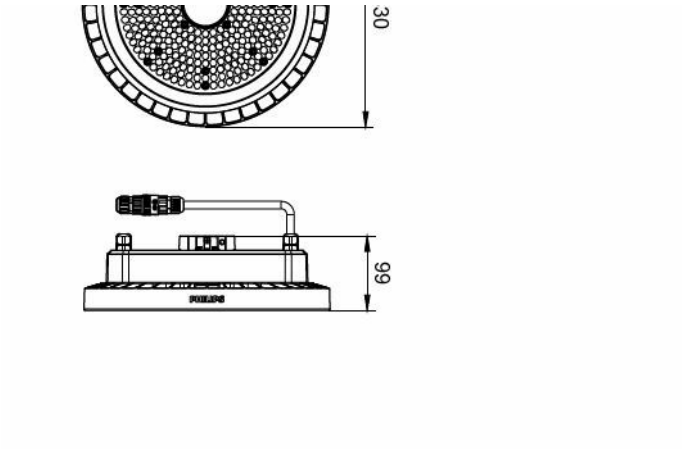
CoreLine Highbay Gen5 - Power supply unit - Beam angle 84° - 85° x 85°



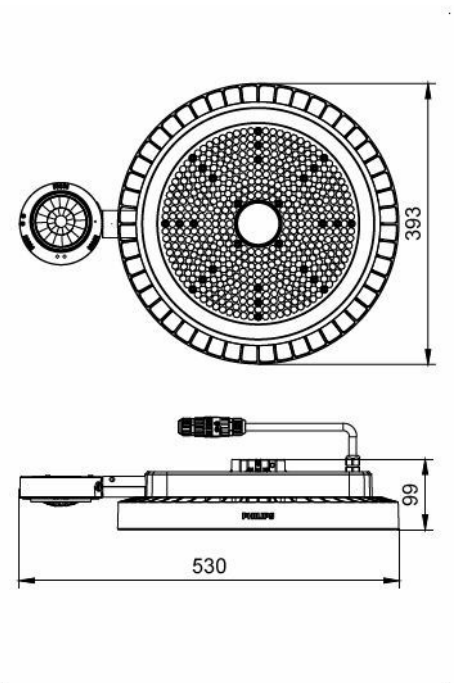
CoreLine Highbay Gen5 - Power supply unit - Beam angle 84° - 85° x 85°



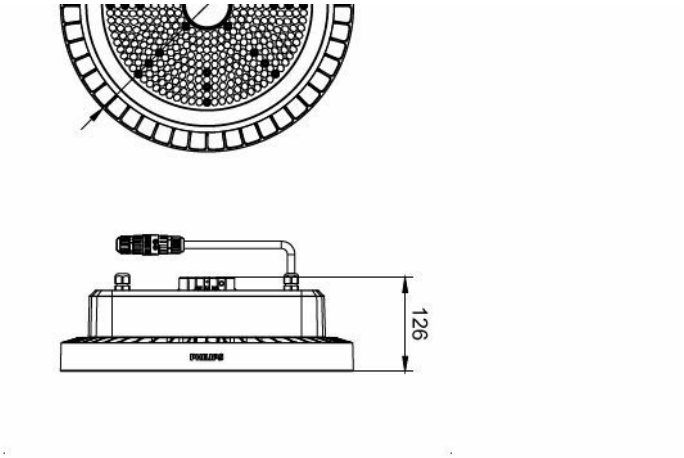
CoreLine Highbay Gen5 - Power supply unit - Beam angle 84° - 85° x 85°



CoreLine Highbay Gen5 - Power supply unit with DALI interface - Beam angle 55° - 55°



CoreLine Highbay Gen5 - Sensor ready driver InterAct System ready - Beam angle 55° - 55°

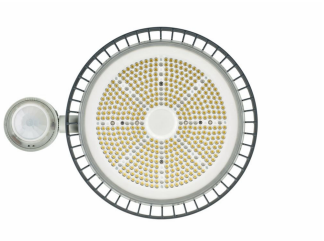


CoreLine Highbay Gen5 - Power supply unit with DALI interface - Beam angle 84° - 85° x 85°

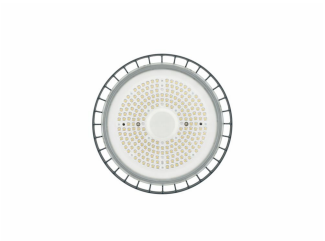
Product details



CoreLine highbay gen5, IP65 connector (PSD)



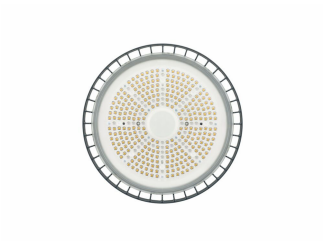
CoreLine highbay gen5, with sensor, front view



CoreLine highbay gen5, BY120P, front view



CoreLine highbay gen5, with sensor, side view



CoreLine highbay gen5, BY121P, front view



CoreLine highbay gen5, IP65 connector



CoreLine highbay gen5, with sensor, back view



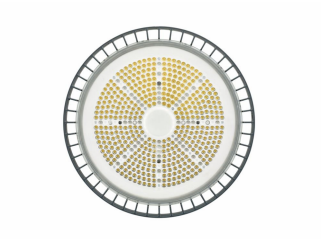
CoreLine highbay gen5, bracket mounting



CoreLine highbay gen5, bracket mounting



CoreLine highbay gen5, hook mounting



CoreLine highbay gen5, BY121P, front view

General Information

Light source replaceable	No
Driver included	Yes
Service tag	Yes

Light Technical

Color rendering index (CRI)	>80

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 or 60 Hz
Suitable for random switching	Yes
Protection class IEC	Safety class I

Controls and Dimming

Embedded control	Sensor SNH (R) 210

Mechanical and Housing

Housing Color	Grey
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]

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	0.5
Stroboscopic effect visibility measure (SVM)	1
Ambient temperature range	-30 to +50 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%

General Information

Order Code	Full Product Name	Number of gear units
911401630808	BY122P G5 LED250S/840 PSU NB	1 unit
911401630908	BY122P G5 LED250S/840 PSU WB	1 unit
911401631008	BY122P G5 LED250S/865 PSU NB	1 unit
911401631108	BY122P G5 LED250S/865 PSU WB	1 unit
911401631208	BY122P G5 LED250S/840 PSD NB	2 units
911401631308	BY122P G5 LED250S/840 PSD WB	2 units
911401631408	BY122P G5 LED250S/865 PSD NB	2 units
911401631508	BY122P G5 LED250S/865 PSD WB	2 units
911401632608	BY122P G5 LED300S/840 PSU NB	1 unit
911401632708	BY122P G5 LED300S/840 PSU WB	1 unit
911401632808	BY122P G5 LED300S/840 PSD NB	2 units
911401632908	BY122P G5 LED300S/840 PSD WB	2 units
911401629408	BY121P G5 LED200S/840 PSU NB	1 unit
911401629508	BY121P G5 LED200S/840 PSU WB	1 unit
911401629608	BY121P G5 LED105S/840 PSD NB	1 unit
911401629708	BY121P G5 LED105S/840 PSD WB	1 unit
911401629808	BY121P G5 LED200S/840 PSD NB	1 unit
911401629908	BY121P G5 LED200S/840 PSD WB	1 unit
911401630208	BY121P G5 LED200S/865 PSU NB	1 unit

Order Code	Full Product Name	Number of gear units
911401630308	BY121P G5 LED200S/865 PSU WB	1 unit
911401630408	BY121P G5 LED105S/865 PSD NB	1 unit
911401630508	BY121P G5 LED105S/865 PSD WB	1 unit
911401630608	BY121P G5 LED200S/865 PSD NB	1 unit
911401630708	BY121P G5 LED200S/865 PSD WB	1 unit
911401632408	BY121P G5 LED150S/840 PSD NB	1 unit
911401632508	BY121P G5 LED150S/840 PSD WB	1 unit
911401629208	BY120P G5 LED105S/840 PSU NB	1 unit
911401629308	BY120P G5 LED105S/840 PSU WB	1 unit
911401630008	BY120P G5 LED105S/865 PSU NB	1 unit
911401630108	BY120P G5 LED105S/865 PSU WB	1 unit
911401632208	BY120P G5 LED150S/840 PSU NB	1 unit
911401632308	BY120P G5 LED150S/840 PSU WB	1 unit
911401631608	BY122X G5 LED105S/840 SIA NB H4	1 unit
911401631708	BY122X G5 LED105S/840 SIA WB H4	1 unit
911401631808	BY122X G5 LED200S/840 SIA NB H4	1 unit
911401631908	BY122X G5 LED200S/840 SIA WB H4	1 unit
911401632008	BY122X G5 LED250S/840 SIA NB H4	1 unit
911401632108	BY122X G5 LED250S/840 SIA WB H4	1 unit
911401633008	BY122X G5 LED300S/840 SIA NB H4	1 unit
911401633108	BY122X G5 LED300S/840 SIA WB H4	1 unit

Light Technical

Order Code	Full Product Name	Luminous Flux	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Optic type
911401630808	BY122P G5 LED250S/840 PSU NB	25,000 lm	4000 K	174 lm/W	Narrow beam
911401630908	BY122P G5 LED250S/840 PSU WB	25,000 lm	4000 K	174 lm/W	Wide beam
911401631008	BY122P G5 LED250S/865 PSU NB	25,000 lm	6500 K	174 lm/W	Narrow beam
911401631108	BY122P G5 LED250S/865 PSU WB	25,000 lm	6500 K	174 lm/W	Wide beam
911401631208	BY122P G5 LED250S/840 PSD NB	25,000 lm	4000 K	162 lm/W	Narrow beam
911401631308	BY122P G5 LED250S/840 PSD WB	25,000 lm	4000 K	162 lm/W	Wide beam
911401631408	BY122P G5 LED250S/865 PSD NB	25,000 lm	6500 K	162 lm/W	Narrow beam
911401631508	BY122P G5 LED250S/865 PSD WB	25,000 lm	6500 K	162 lm/W	Wide beam
911401632608	BY122P G5 LED300S/840 PSU NB	31,000 lm	4000 K	171 lm/W	Narrow beam
911401632708	BY122P G5 LED300S/840 PSU WB	31,000 lm	4000 K	171 lm/W	Wide beam
911401632808	BY122P G5 LED300S/840 PSD NB	31,000 lm	4000 K	163 lm/W	Narrow beam
911401632908	BY122P G5 LED300S/840 PSD WB	31,000 lm	4000 K	163 lm/W	Wide beam
911401629408	BY121P G5 LED200S/840 PSU NB	20,500 lm	4000 K	169 lm/W	Narrow beam
911401629508	BY121P G5 LED200S/840 PSU WB	20,500 lm	4000 K	169 lm/W	Wide beam
911401629608	BY121P G5 LED105S/840 PSD NB	10,500 lm	4000 K	152 lm/W	Narrow beam
911401629708	BY121P G5 LED105S/840 PSD WB	10,500 lm	4000 K	152 lm/W	Wide beam
911401629808	BY121P G5 LED200S/840 PSD NB	20,500 lm	4000 K	163 lm/W	Narrow beam

Order Code	Full Product Name	Luminous Flux	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Optic type
911401629908	BY121P G5 LED200S/840 PSD WB	20,500 lm	4000 K	163 lm/W	Wide beam
911401630208	BY121P G5 LED200S/865 PSU NB	20,500 lm	6500 K	169 lm/W	Narrow beam
911401630308	BY121P G5 LED200S/865 PSU WB	20,500 lm	6500 K	169 lm/W	Wide beam
911401630408	BY121P G5 LED105S/865 PSD NB	10,500 lm	6500 K	152 lm/W	Narrow beam
911401630508	BY121P G5 LED105S/865 PSD WB	10,500 lm	6500 K	152 lm/W	Wide beam
911401630608	BY121P G5 LED200S/865 PSD NB	20,500 lm	6500 K	163 lm/W	Narrow beam
911401630708	BY121P G5 LED200S/865 PSD WB	20,500 lm	6500 K	163 lm/W	Wide beam
911401632408	BY121P G5 LED150S/840 PSD NB	15,000 lm	4000 K	161 lm/W	Narrow beam
911401632508	BY121P G5 LED150S/840 PSD WB	15,000 lm	4000 K	161 lm/W	Wide beam
911401629208	BY120P G5 LED105S/840 PSU NB	10,500 lm	4000 K	167 lm/W	Narrow beam
911401629308	BY120P G5 LED105S/840 PSU WB	10,500 lm	4000 K	167 lm/W	Wide beam
911401630008	BY120P G5 LED105S/865 PSU NB	10,500 lm	6500 K	167 lm/W	Narrow beam
911401630108	BY120P G5 LED105S/865 PSU WB	10,500 lm	6500 K	167 lm/W	Wide beam
911401632208	BY120P G5 LED150S/840 PSU NB	15,000 lm	4000 K	170 lm/W	Narrow beam
911401632308	BY120P G5 LED150S/840 PSU WB	15,000 lm	4000 K	170 lm/W	Wide beam
911401631608	BY122X G5 LED105S/840 SIA NB H4	10,500 lm	4000 K	152 lm/W	Narrow beam
911401631708	BY122X G5 LED105S/840 SIA WB H4	10,500 lm	4000 K	152 lm/W	Wide beam
911401631808	BY122X G5 LED200S/840 SIA NB H4	20,500 lm	4000 K	168 lm/W	Narrow beam
911401631908	BY122X G5 LED200S/840 SIA WB H4	20,500 lm	4000 K	168 lm/W	Wide beam
911401632008	BY122X G5 LED250S/840 SIA NB H4	25,000 lm	4000 K	170 lm/W	Narrow beam
911401632108	BY122X G5 LED250S/840 SIA WB H4	25,000 lm	4000 K	170 lm/W	Wide beam
911401633008	BY122X G5 LED300S/840 SIA NB H4	31,000 lm	4000 K	170 lm/W	Narrow beam
911401633108	BY122X G5 LED300S/840 SIA WB H4	31,000 lm	4000 K	170 lm/W	Wide beam

Operating and Electrical

Order Code	Full Product Name	Power Consumption
911401630808	BY122P G5 LED250S/840 PSU NB	144 W
911401630908	BY122P G5 LED250S/840 PSU WB	144 W
911401631008	BY122P G5 LED250S/865 PSU NB	144 W
911401631108	BY122P G5 LED250S/865 PSU WB	144 W
911401631208	BY122P G5 LED250S/840 PSD NB	154 W
911401631308	BY122P G5 LED250S/840 PSD WB	154 W
911401631408	BY122P G5 LED250S/865 PSD NB	154 W
911401631508	BY122P G5 LED250S/865 PSD WB	154 W
911401632608	BY122P G5 LED300S/840 PSU NB	181 W
911401632708	BY122P G5 LED300S/840 PSU WB	181 W
911401632808	BY122P G5 LED300S/840 PSD NB	190 W
911401632908	BY122P G5 LED300S/840 PSD WB	190 W
911401629408	BY121P G5 LED200S/840 PSU NB	121 W
911401629508	BY121P G5 LED200S/840 PSU WB	121 W
911401629608	BY121P G5 LED105S/840 PSD NB	69 W

Order Code	Full Product Name	Power Consumption
911401629708	BY121P G5 LED105S/840 PSD WB	69 W
911401629808	BY121P G5 LED200S/840 PSD NB	126 W
911401629908	BY121P G5 LED200S/840 PSD WB	126 W
911401630208	BY121P G5 LED200S/865 PSU NB	121 W
911401630308	BY121P G5 LED200S/865 PSU WB	121 W
911401630408	BY121P G5 LED105S/865 PSD NB	69 W
911401630508	BY121P G5 LED105S/865 PSD WB	69 W
911401630608	BY121P G5 LED200S/865 PSD NB	126 W
911401630708	BY121P G5 LED200S/865 PSD WB	126 W
911401632408	BY121P G5 LED150S/840 PSD NB	93 W
911401632508	BY121P G5 LED150S/840 PSD WB	93 W
911401629208	BY120P G5 LED105S/840 PSU NB	63 W
911401629308	BY120P G5 LED105S/840 PSU WB	63 W
911401630008	BY120P G5 LED105S/865 PSU NB	63 W
911401630108	BY120P G5 LED105S/865 PSU WB	63 W
911401632208	BY120P G5 LED150S/840 PSU NB	88 W
911401632308	BY120P G5 LED150S/840 PSU WB	88 W
911401631608	BY122X G5 LED105S/840 SIA NB H4	69 W
911401631708	BY122X G5 LED105S/840 SIA WB H4	69 W
911401631808	BY122X G5 LED200S/840 SIA NB H4	122 W
911401631908	BY122X G5 LED200S/840 SIA WB H4	122 W
911401632008	BY122X G5 LED250S/840 SIA NB H4	147 W
911401632108	BY122X G5 LED250S/840 SIA WB H4	147 W
911401633008	BY122X G5 LED300S/840 SIA NB H4	182 W
911401633108	BY122X G5 LED300S/840 SIA WB H4	182 W

Controls and Dimming

Order Code	Full Product Name	Dimmable	Maximum dim level
911401630808	BY122P G5 LED250S/840 PSU NB	No	Not applicable
911401630908	BY122P G5 LED250S/840 PSU WB	No	Not applicable
911401631008	BY122P G5 LED250S/865 PSU NB	No	Not applicable
911401631108	BY122P G5 LED250S/865 PSU WB	No	Not applicable
911401631208	BY122P G5 LED250S/840 PSD NB	Yes	20%
911401631308	BY122P G5 LED250S/840 PSD WB	Yes	20%
911401631408	BY122P G5 LED250S/865 PSD NB	Yes	20%
911401631508	BY122P G5 LED250S/865 PSD WB	Yes	20%
911401632608	BY122P G5 LED300S/840 PSU NB	No	Not applicable
911401632708	BY122P G5 LED300S/840 PSU WB	No	Not applicable
911401632808	BY122P G5 LED300S/840 PSD NB	Yes	13%
911401632908	BY122P G5 LED300S/840 PSD WB	Yes	13%
911401629408	BY121P G5 LED200S/840 PSU NB	No	Not applicable

Order Code	Full Product Name	Dimmable	Maximum dim level
911401629508	BY121P G5 LED200S/840 PSU WB	No	Not applicable
911401629608	BY121P G5 LED105S/840 PSD NB	Yes	20%
911401629708	BY121P G5 LED105S/840 PSD WB	Yes	20%
911401629808	BY121P G5 LED200S/840 PSD NB	Yes	10%
911401629908	BY121P G5 LED200S/840 PSD WB	Yes	10%
911401630208	BY121P G5 LED200S/865 PSU NB	No	Not applicable
911401630308	BY121P G5 LED200S/865 PSU WB	No	Not applicable
911401630408	BY121P G5 LED105S/865 PSD NB	Yes	20%
911401630508	BY121P G5 LED105S/865 PSD WB	Yes	20%
911401630608	BY121P G5 LED200S/865 PSD NB	Yes	10%
911401630708	BY121P G5 LED200S/865 PSD WB	Yes	10%
911401632408	BY121P G5 LED150S/840 PSD NB	Yes	13%
911401632508	BY121P G5 LED150S/840 PSD WB	Yes	13%
911401629208	BY120P G5 LED105S/840 PSU NB	No	Not applicable
911401629308	BY120P G5 LED105S/840 PSU WB	No	Not applicable
911401630008	BY120P G5 LED105S/865 PSU NB	No	Not applicable
911401630108	BY120P G5 LED105S/865 PSU WB	No	Not applicable
911401632208	BY120P G5 LED150S/840 PSU NB	No	Not applicable
911401632308	BY120P G5 LED150S/840 PSU WB	No	Not applicable
911401631608	BY122X G5 LED105S/840 SIA NB H4	Yes	1%
911401631708	BY122X G5 LED105S/840 SIA WB H4	Yes	1%
911401631808	BY122X G5 LED200S/840 SIA NB H4	Yes	1%
911401631908	BY122X G5 LED200S/840 SIA WB H4	Yes	1%
911401632008	BY122X G5 LED250S/840 SIA NB H4	Yes	1%
911401632108	BY122X G5 LED250S/840 SIA WB H4	Yes	1%
911401633008	BY122X G5 LED300S/840 SIA NB H4	Yes	1%
911401633108	BY122X G5 LED300S/840 SIA WB H4	Yes	1%

Mechanical and Housing

Order Code	Full Product Name	Mech. impact protection code
911401630808	BY122P G5 LED250S/840 PSU NB	IK08
911401630908	BY122P G5 LED250S/840 PSU WB	IK08
911401631008	BY122P G5 LED250S/865 PSU NB	IK08
911401631108	BY122P G5 LED250S/865 PSU WB	IK08
911401631208	BY122P G5 LED250S/840 PSD NB	IK08
911401631308	BY122P G5 LED250S/840 PSD WB	IK08
911401631408	BY122P G5 LED250S/865 PSD NB	IK08
911401631508	BY122P G5 LED250S/865 PSD WB	IK08
911401632608	BY122P G5 LED300S/840 PSU NB	IK08
911401632708	BY122P G5 LED300S/840 PSU WB	IK08
911401632808	BY122P G5 LED300S/840 PSD NB	IK08

Order Code	Full Product Name	Mech. impact protection code
911401632908	BY122P G5 LED300S/840 PSD WB	IK08
911401629408	BY121P G5 LED200S/840 PSU NB	IK08
911401629508	BY121P G5 LED200S/840 PSU WB	IK08
911401629608	BY121P G5 LED105S/840 PSD NB	IK08
911401629708	BY121P G5 LED105S/840 PSD WB	IK08
911401629808	BY121P G5 LED200S/840 PSD NB	IK08
911401629908	BY121P G5 LED200S/840 PSD WB	IK08
911401630208	BY121P G5 LED200S/865 PSU NB	IK08
911401630308	BY121P G5 LED200S/865 PSU WB	IK08
911401630408	BY121P G5 LED105S/865 PSD NB	IK08
911401630508	BY121P G5 LED105S/865 PSD WB	IK08
911401630608	BY121P G5 LED200S/865 PSD NB	IK08
911401630708	BY121P G5 LED200S/865 PSD WB	IK08
911401632408	BY121P G5 LED150S/840 PSD NB	IK08
911401632508	BY121P G5 LED150S/840 PSD WB	IK08
911401629208	BY120P G5 LED105S/840 PSU NB	IK08
911401629308	BY120P G5 LED105S/840 PSU WB	IK08
911401630008	BY120P G5 LED105S/865 PSU NB	IK08
911401630108	BY120P G5 LED105S/865 PSU WB	IK08
911401632208	BY120P G5 LED150S/840 PSU NB	IK08
911401632308	BY120P G5 LED150S/840 PSU WB	IK08
911401631608	BY122X G5 LED105S/840 SIA NB H4	IK05
911401631708	BY122X G5 LED105S/840 SIA WB H4	IK05
911401631808	BY122X G5 LED200S/840 SIA NB H4	IK05
911401631908	BY122X G5 LED200S/840 SIA WB H4	IK05
911401632008	BY122X G5 LED250S/840 SIA NB H4	IK05
911401632108	BY122X G5 LED250S/840 SIA WB H4	IK05
911401633008	BY122X G5 LED300S/840 SIA NB H4	IK05
911401633108	BY122X G5 LED300S/840 SIA WB H4	IK05

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
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911401630908	BY122P G5 LED250S/840 PSU WB	(0.385, 0.380) SDCM<5
911401631008	BY122P G5 LED250S/865 PSU NB	(0.316, 0.332) SDCM<5
911401631108	BY122P G5 LED250S/865 PSU WB	(0.316, 0.332) SDCM<5
911401631208	BY122P G5 LED250S/840 PSD NB	(0.385, 0.380) SDCM<5
911401631308	BY122P G5 LED250S/840 PSD WB	(0.385, 0.380) SDCM<5
911401631408	BY122P G5 LED250S/865 PSD NB	(0.316, 0.332) SDCM<5
911401631508	BY122P G5 LED250S/865 PSD WB	(0.316, 0.332) SDCM<5
911401632608	BY122P G5 LED300S/840 PSU NB	(0.385, 0.380) SDCM<5

Order Code	Full Product Name	Initial chromaticity
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911401632908	BY122P G5 LED300S/840 PSD WB	(0.385, 0.380) SDCM<5
911401629408	BY121P G5 LED200S/840 PSU NB	(0.385, 0.380) SDCM<5
911401629508	BY121P G5 LED200S/840 PSU WB	(0.385, 0.380) SDCM<5
911401629608	BY121P G5 LED105S/840 PSD NB	(0.385, 0.380) SDCM<5
911401629708	BY121P G5 LED105S/840 PSD WB	(0.385, 0.380) SDCM<5
911401629808	BY121P G5 LED200S/840 PSD NB	(0.385, 0.380) SDCM<5
911401629908	BY121P G5 LED200S/840 PSD WB	(0.385, 0.380) SDCM<5
911401630208	BY121P G5 LED200S/865 PSU NB	(0.316, 0.332) SDCM<5
911401630308	BY121P G5 LED200S/865 PSU WB	(0.316, 0.332) SDCM<5
911401630408	BY121P G5 LED105S/865 PSD NB	(0.316, 0.332) SDCM<5
911401630508	BY121P G5 LED105S/865 PSD WB	(0.316, 0.332) SDCM<5
911401630608	BY121P G5 LED200S/865 PSD NB	(0.316, 0.332) SDCM<5
911401630708	BY121P G5 LED200S/865 PSD WB	(0.316, 0.332) SDCM<5
911401632408	BY121P G5 LED150S/840 PSD NB	(0.385, 0.380) SDCM<5
911401632508	BY121P G5 LED150S/840 PSD WB	(0.385, 0.380) SDCM<5
911401629208	BY120P G5 LED105S/840 PSU NB	(0.385, 0.380) SDCM<5
911401629308	BY120P G5 LED105S/840 PSU WB	(0.385, 0.380) SDCM<5
911401630008	BY120P G5 LED105S/865 PSU NB	(0.316, 0.332) SDCM<5
911401630108	BY120P G5 LED105S/865 PSU WB	(0.316, 0.332) SDCM<5
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911401632308	BY120P G5 LED150S/840 PSU WB	(0.385, 0.380) SDCM<5
911401631608	BY122X G5 LED105S/840 SIA NB H4	(0.385, 0.380) SDCM<5
911401631708	BY122X G5 LED105S/840 SIA WB H4	(0.385, 0.380) SDCM<5
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911401632108	BY122X G5 LED250S/840 SIA WB H4	(0.385, 0.380) SDCM<5
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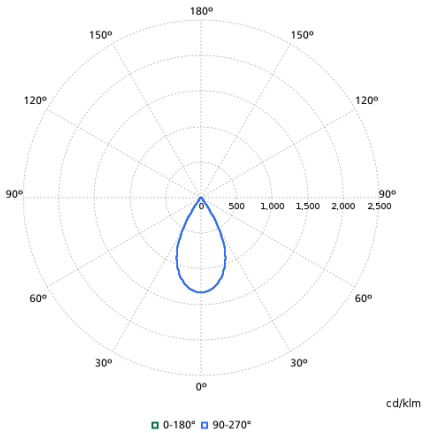
Polar normal diagrams



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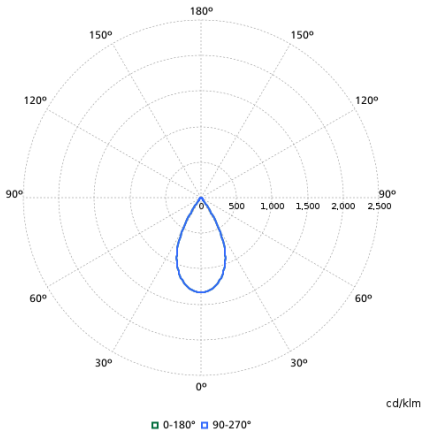

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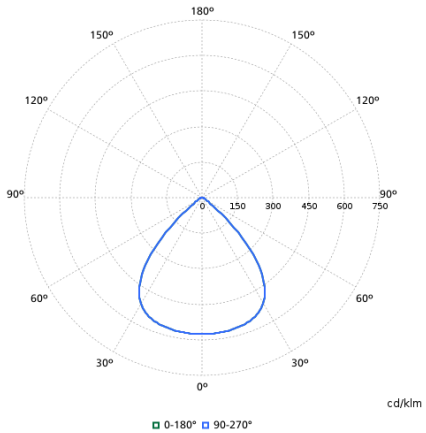

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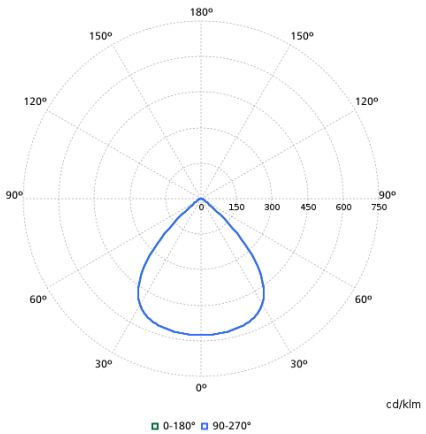

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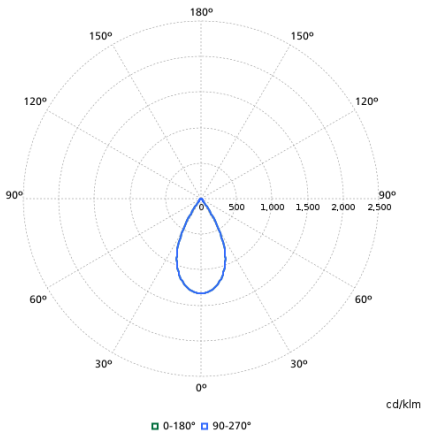

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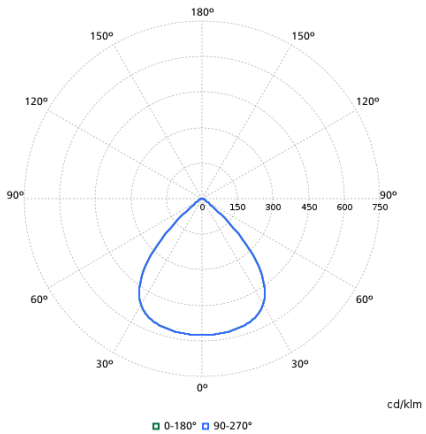

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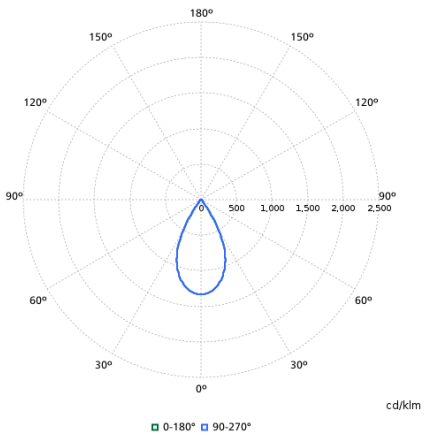

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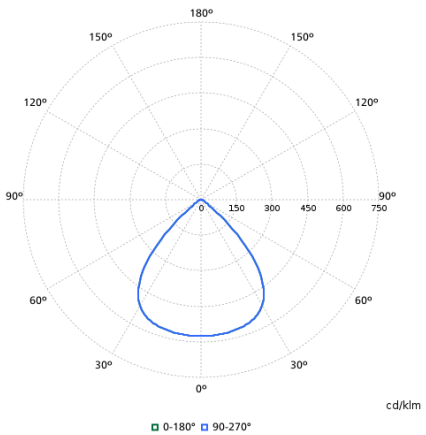

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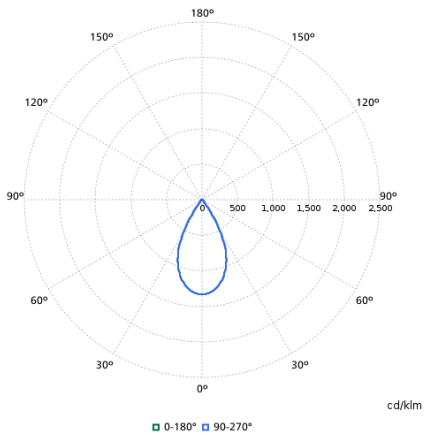

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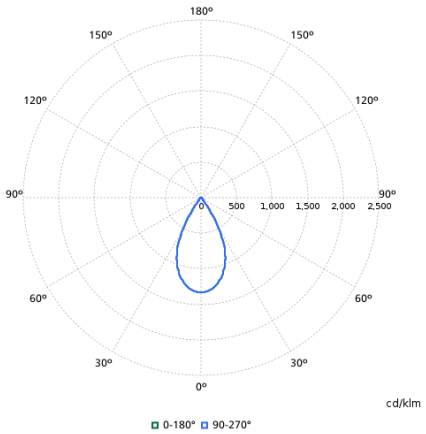

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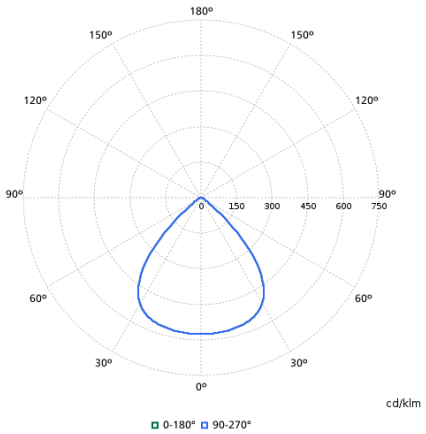

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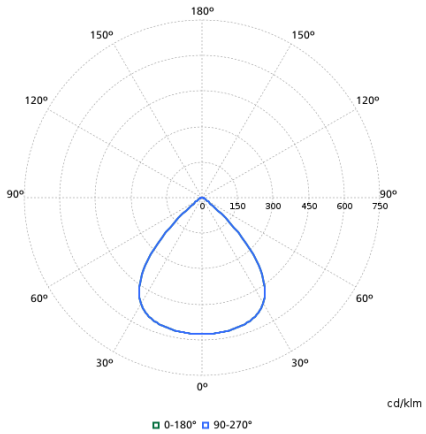

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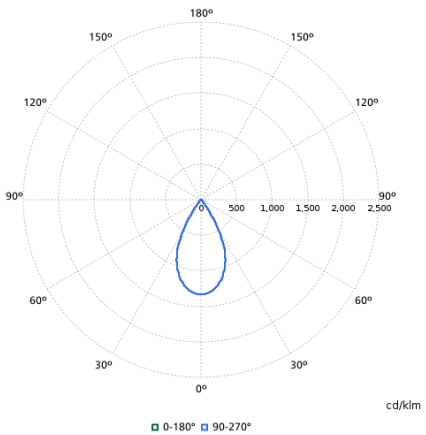

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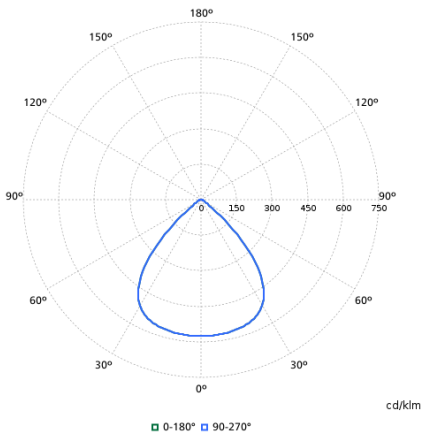

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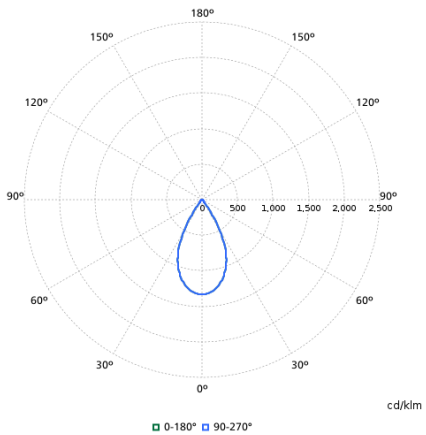

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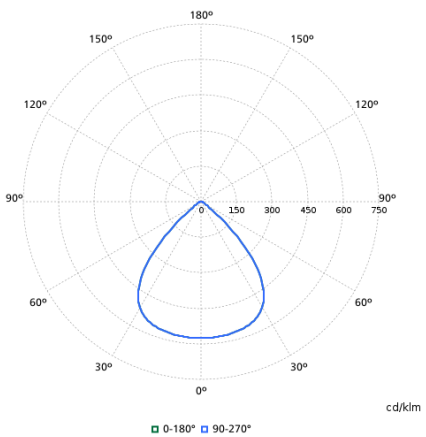

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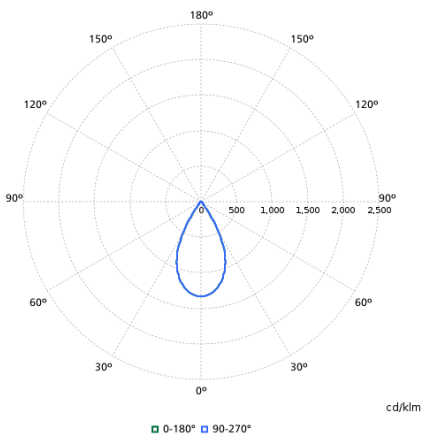

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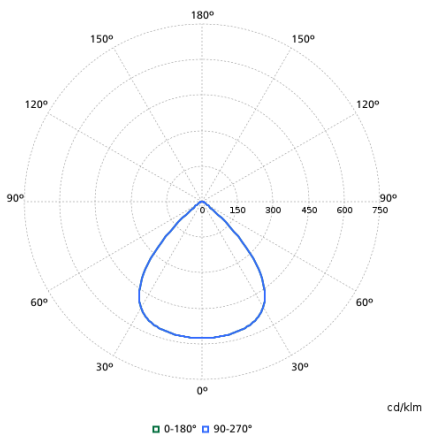

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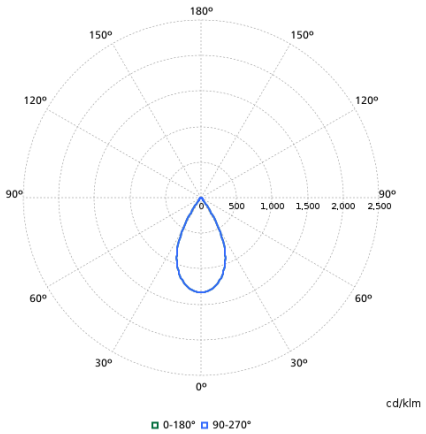

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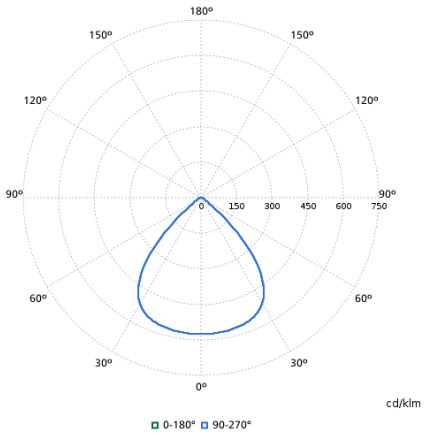

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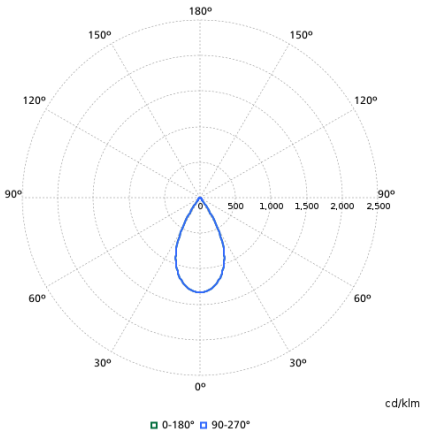

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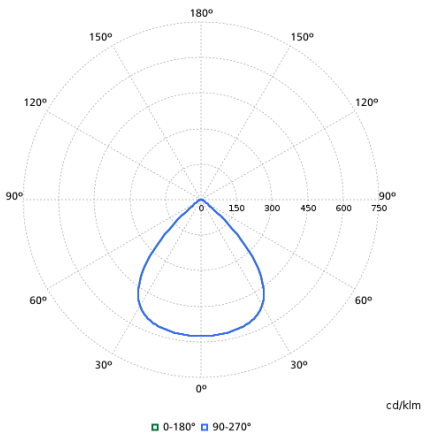

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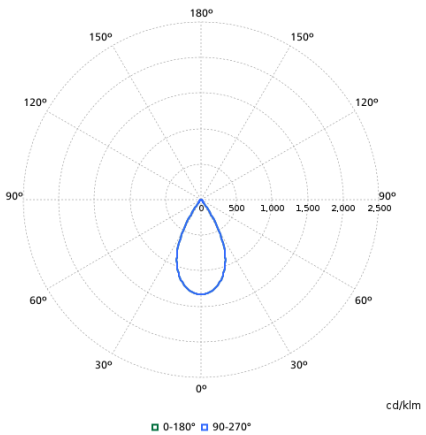

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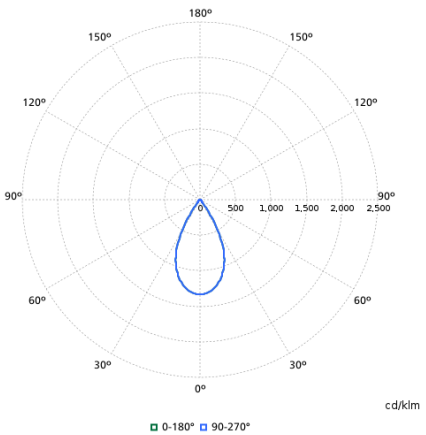

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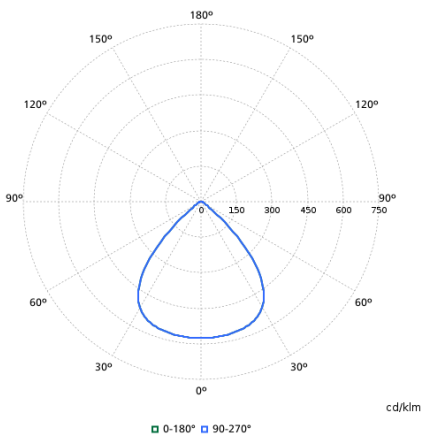

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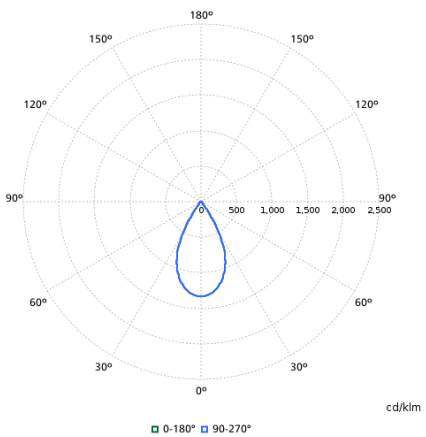

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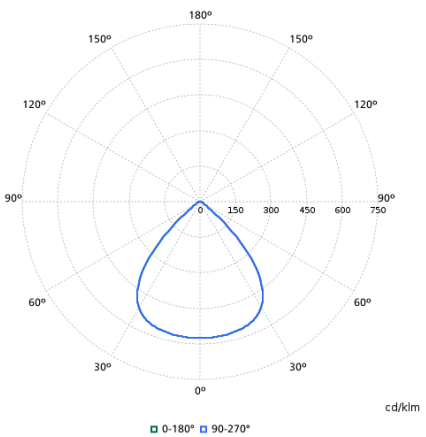

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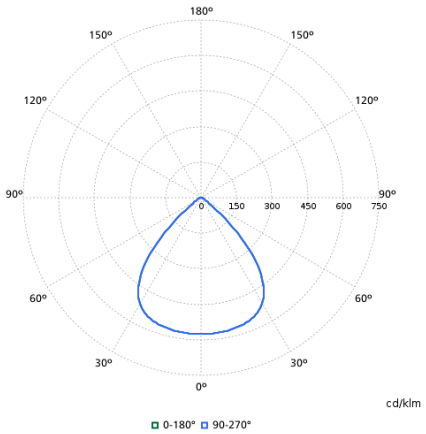

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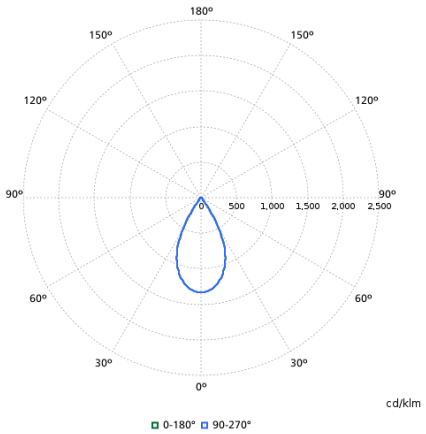

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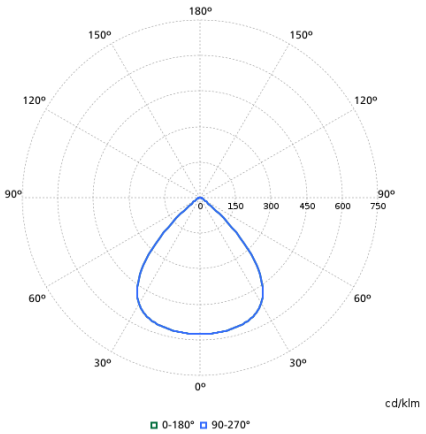

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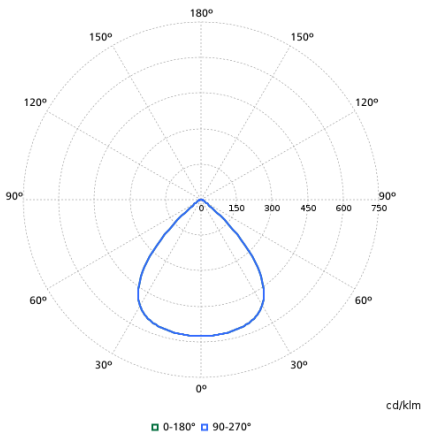

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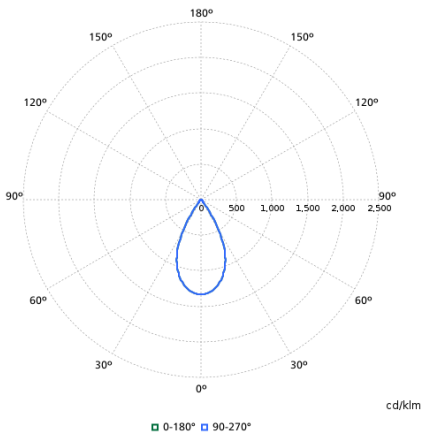

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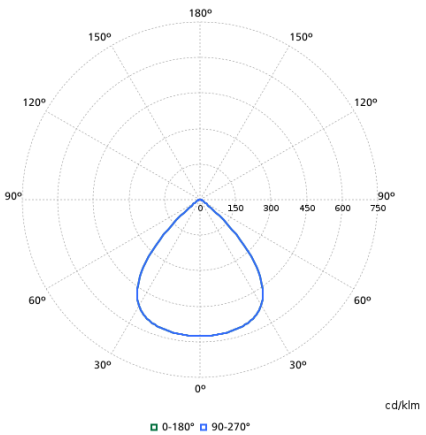

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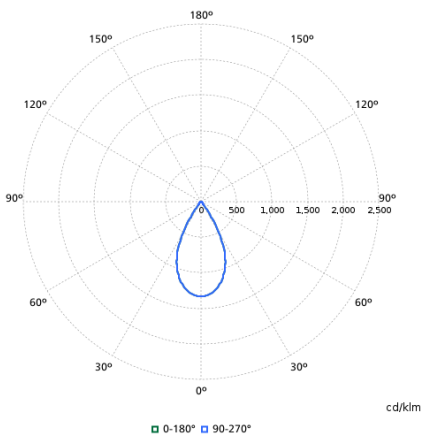

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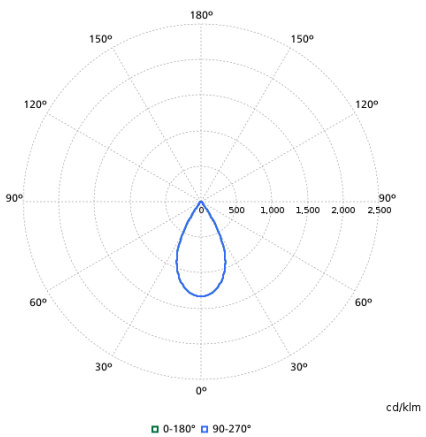

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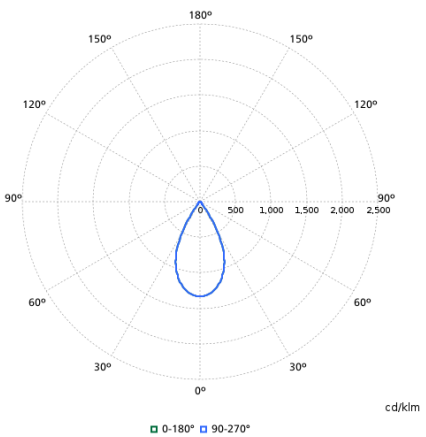

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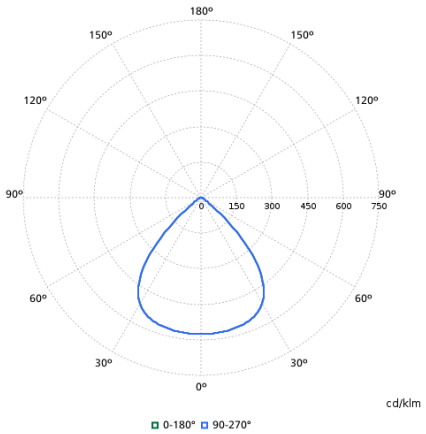

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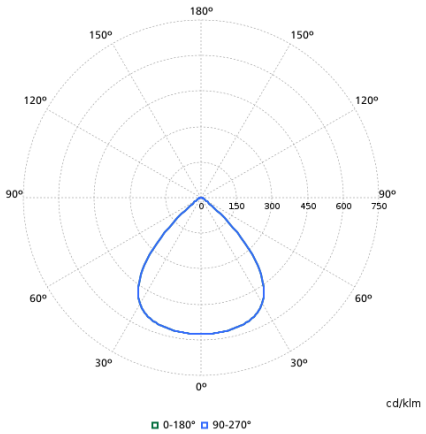

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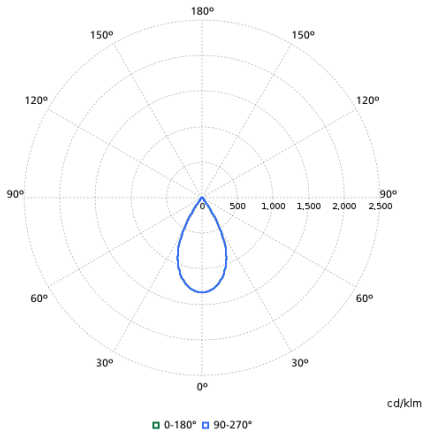

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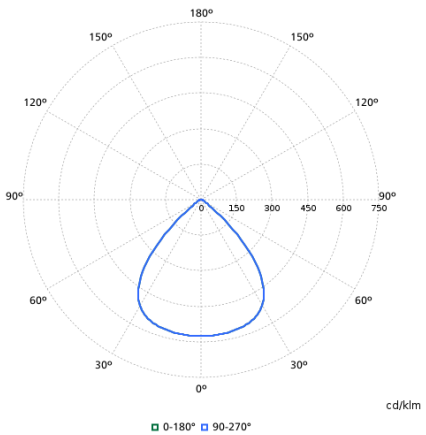

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