PRODUCT DATASHEET
HighBay series
last update 19/11/2014

DETAILS

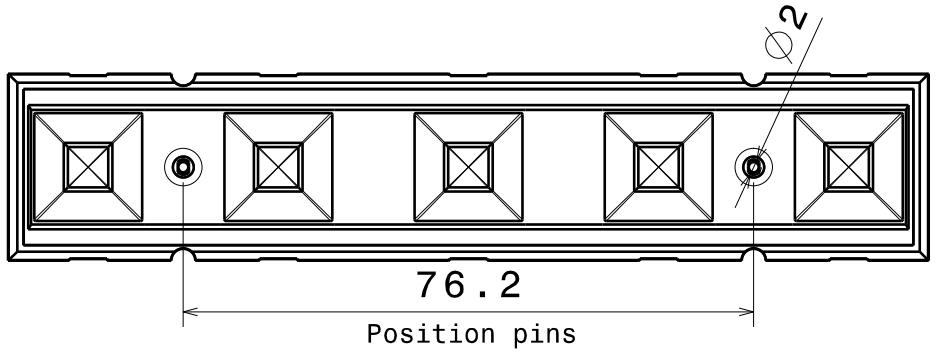
Product Number	C12345_HB-5X1-W
Family	HighBay
Type	Lens array
Color	clear
Diameter	123 + 25 mm
Height	9 mm
Style	rectang
Optic Material	PMMA
Holder Material	
Fastening	pin, glue, screw
Status	production ready
ROHS Compliant	Yes
Date Updated	19/11/2014

OPTICAL PROPERTIES

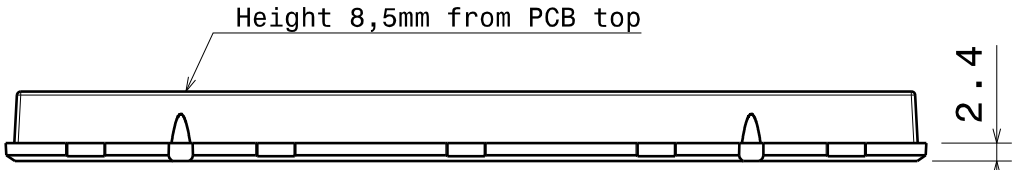
LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector
XM-L	56 deg	HighBay	89 %	0.900	-
XP-G	50 deg	HighBay	89 %	1.000	-
XP-E	47 deg	HighBay	90 %	1.090	-
XT-E	50 deg	HighBay	87 %	1.050	-
XM-L2	55 deg	HighBay	89 %	0.970	-
LUXEON A	sim: 45	HighBay	-	-	-
LUXEON Rebel	43 deg	HighBay	89 %	1.250	-
LUXEON Rebel ES	sim: 45	HighBay	-	-	-
NVSxx19A	49 deg	HighBay	85 %	1.070	-
NCSxx19A	sim: 50	HighBay	-	-	-

Ledil Oy
Salorankatu 10
24240 SALO, Finland

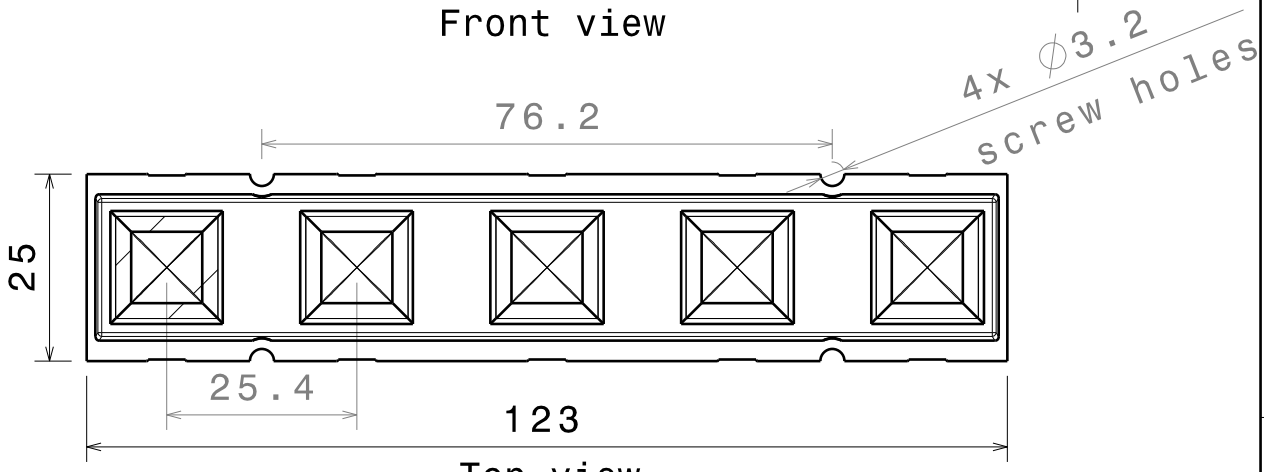
http://www.ledil.com
email: ledil@ledil.com
FAX: +358-2-733 8001



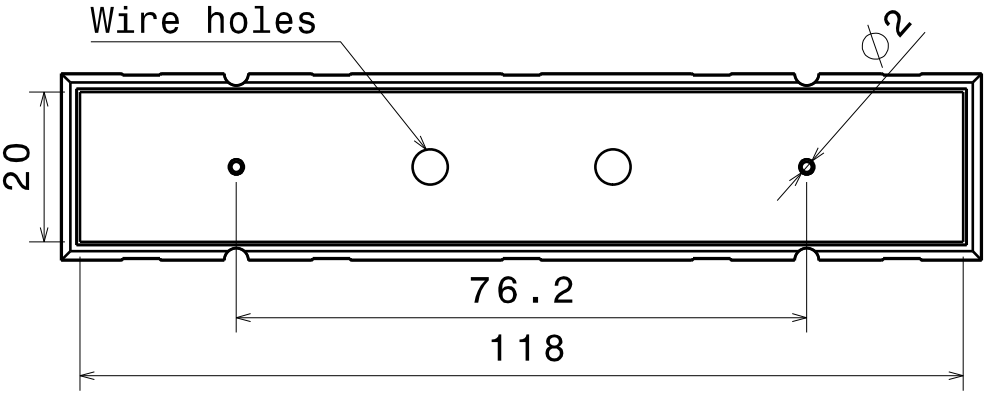
Bottom view



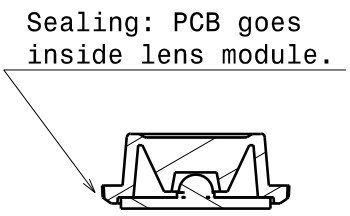
Front view



Top view



PCB-suggestion

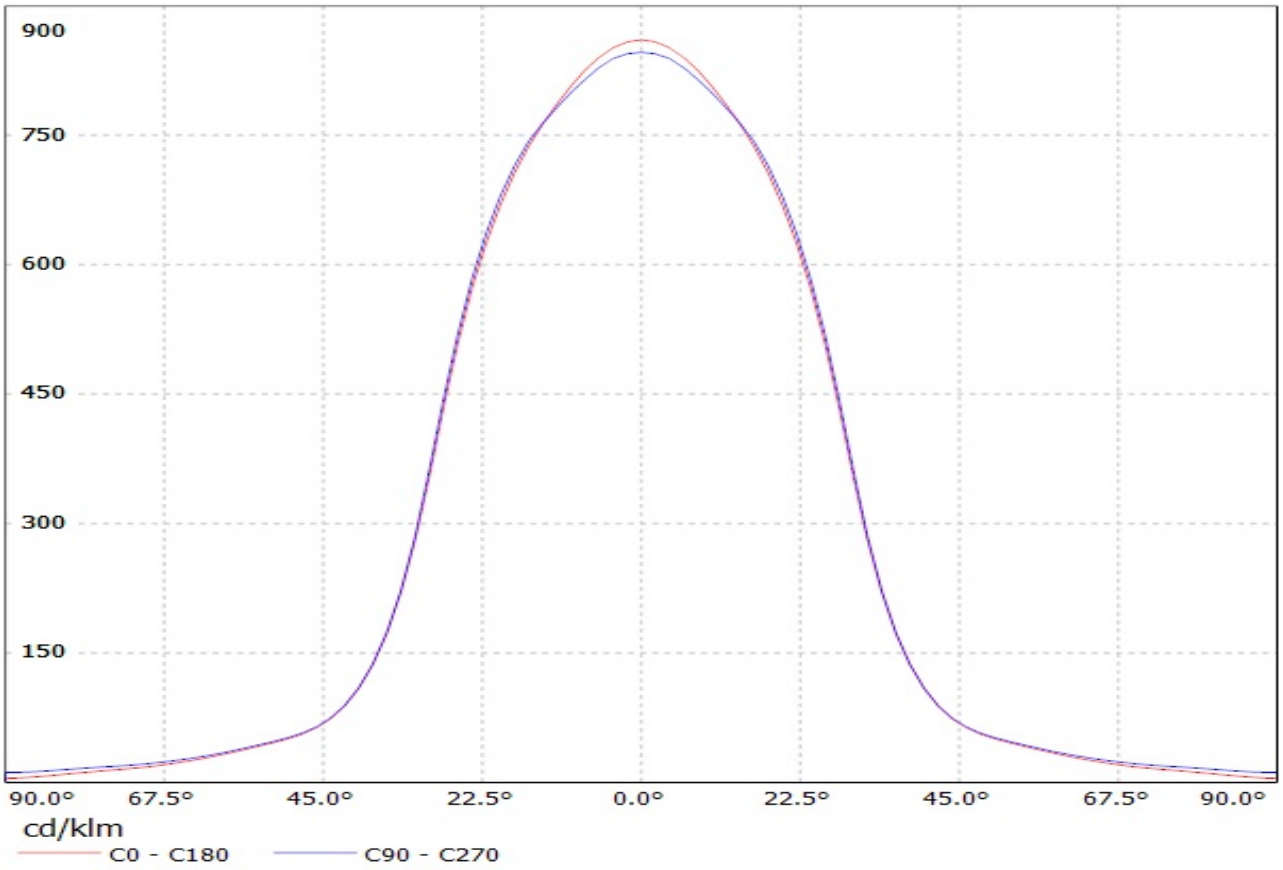


Cross section

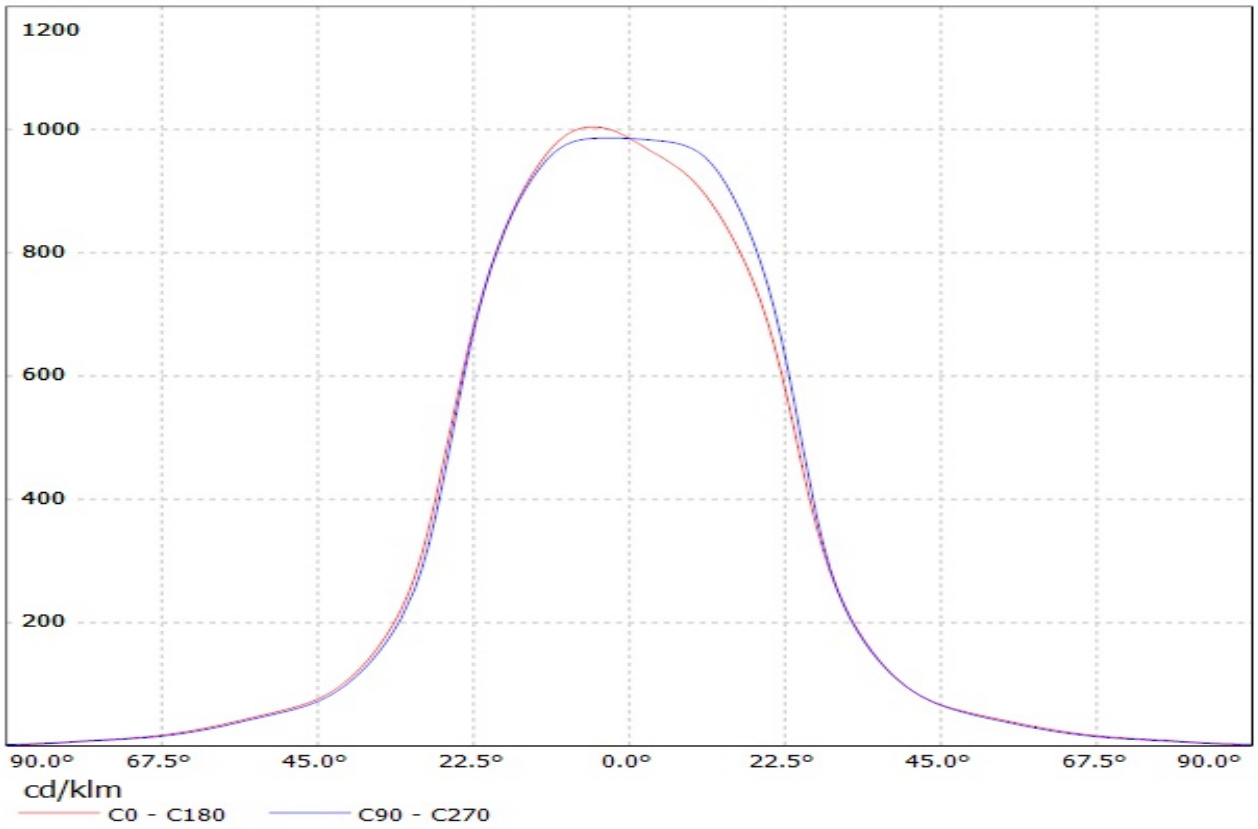
Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWN BY: mav	DATE: 14.03.2012	DRAWING TITLE: Datasheet HB-5x1 Lens			
CHECKED BY	DATE	SIZE: A4	DRAWING NUMBER: C12345		REV: 2
DESIGNED BY: mav	DATE: 22.09.2011	SCALE: 1:1	WEIGHT(g)		SHEET: 1/1

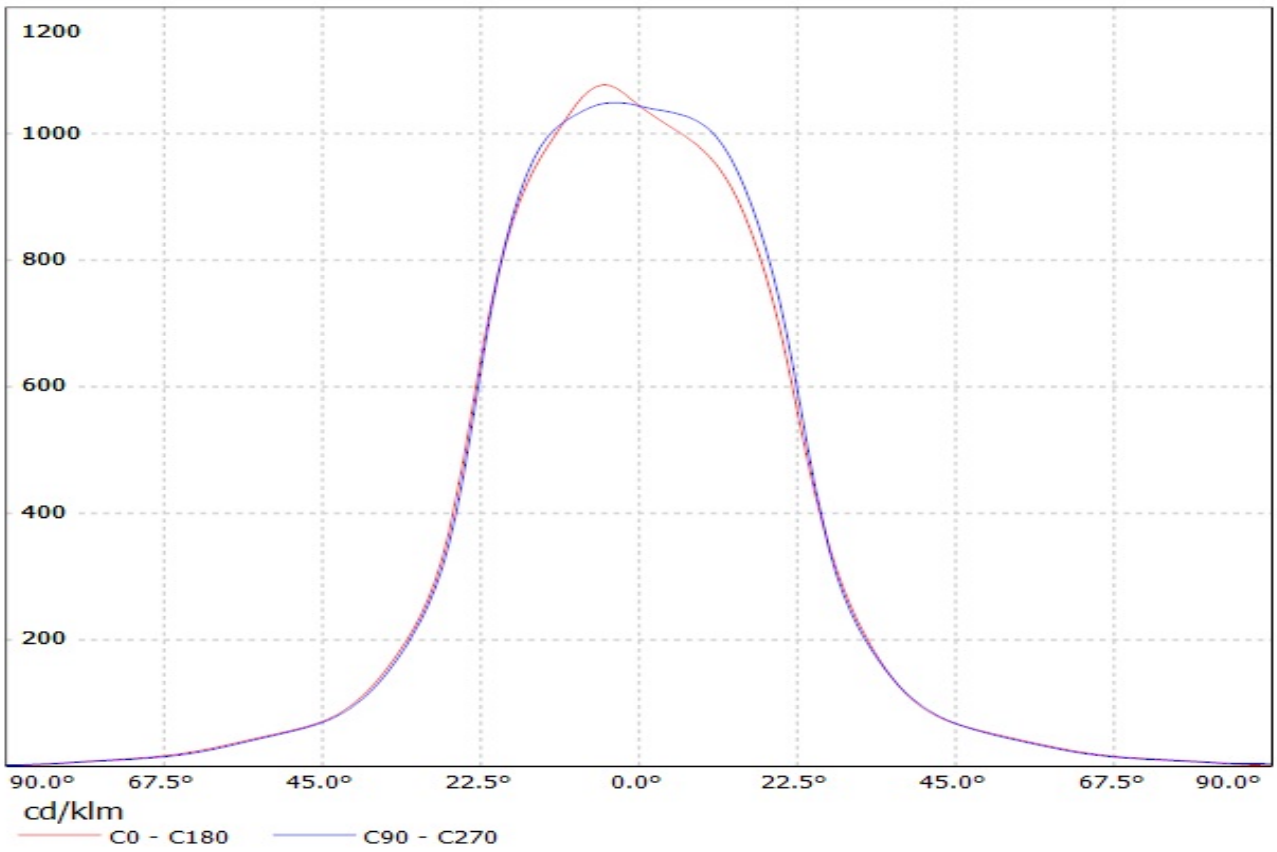
Luminaire: Ledil Oy C12345-HB-5x1 C12345-HB-5x1 LOR=89%
Lamps: 1 x Cree XM-L 5x1 module 473lm @ 250mA



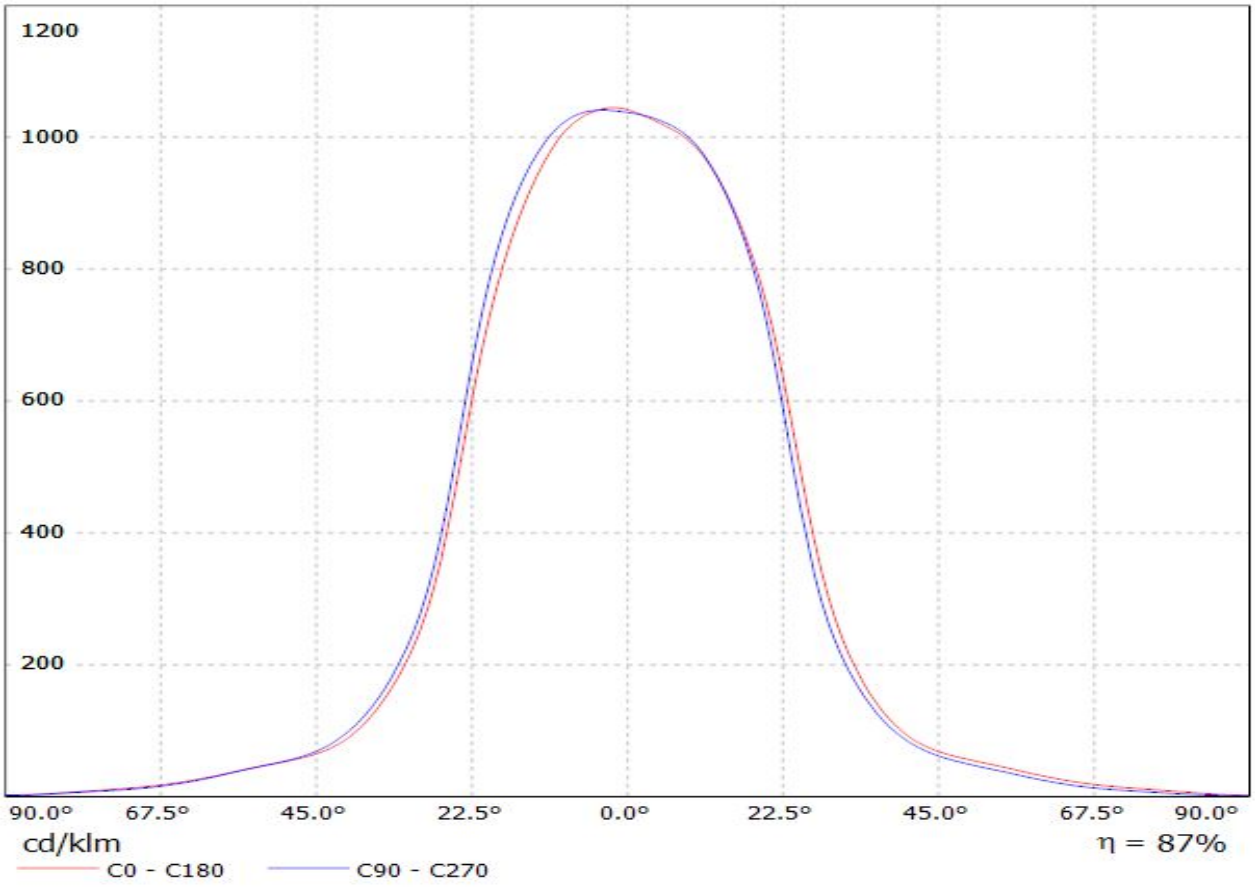
Luminaire: LEDIL OY C12345_HB-5X1 (XP-G) Efficiency=89%
Lamps: 1 x Cree XP-G (325lm@250mA)



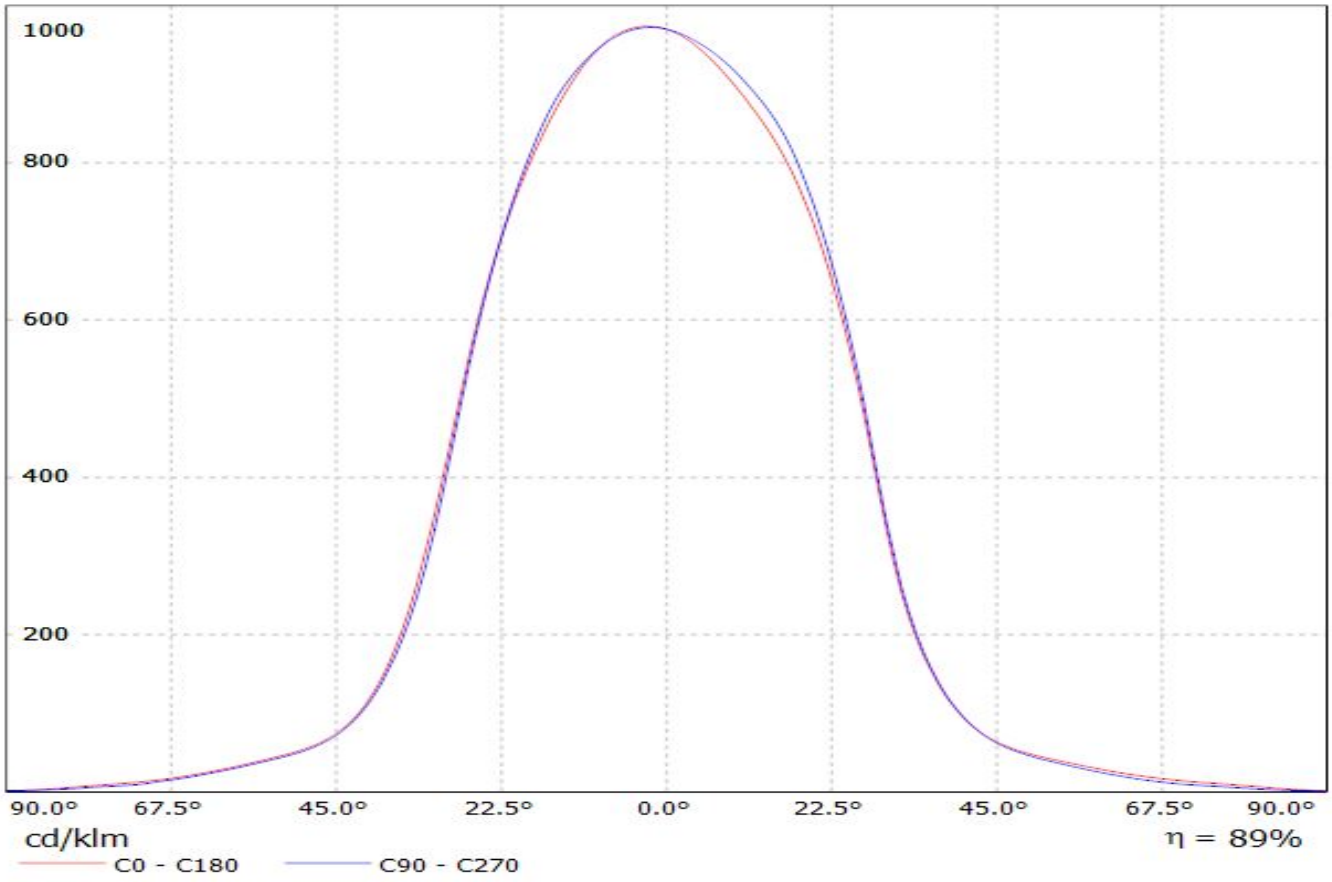
Luminaire: LEDIL OY C12345_HB-5X1 (XP-E) Efficiency=90%
Lamps: 1 x Cree XP-E (352lm@250mA)



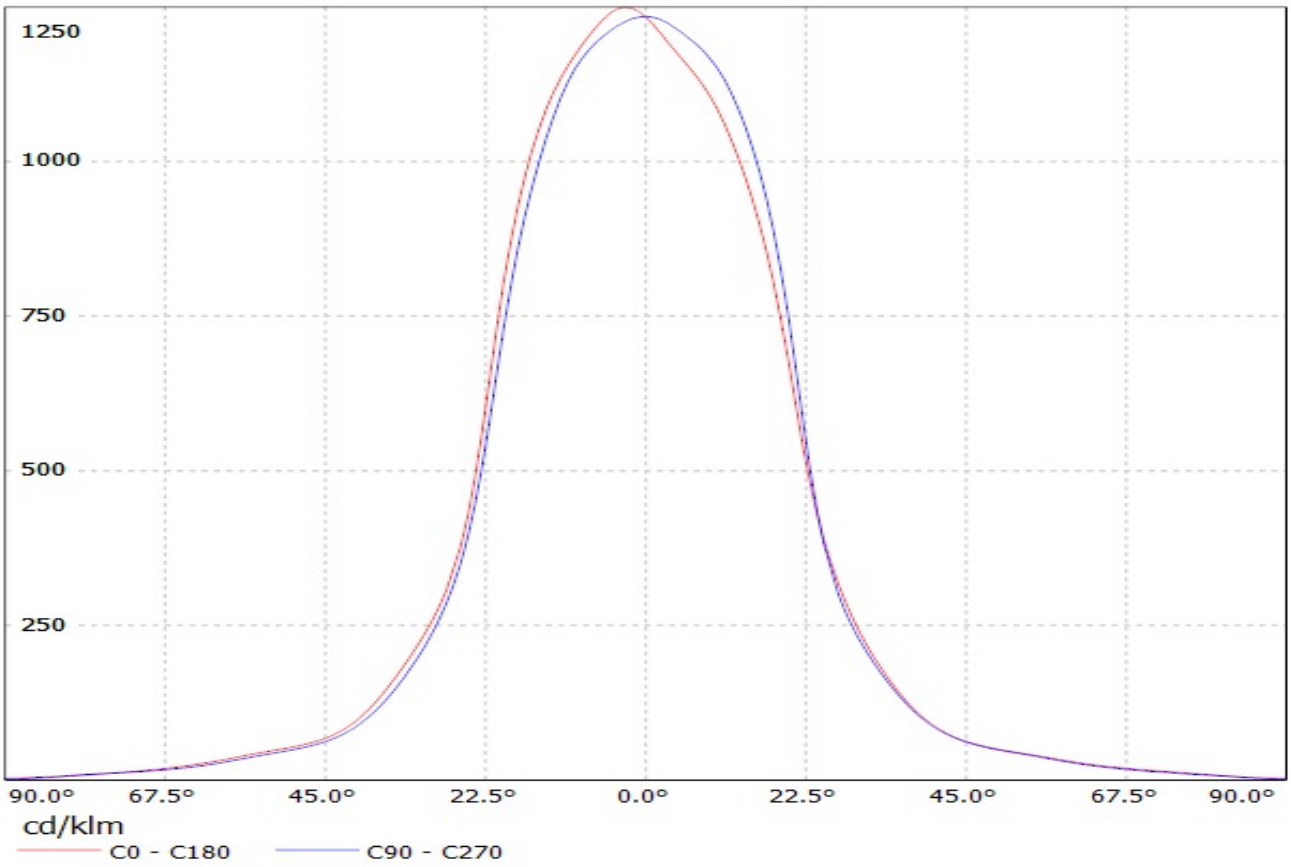
Luminaire: LEDiL Oy C12345_HB_5x1_W_(XT-E) Eff.86.6%
Lamps: 1 x CREE_XT-E_5x1_(XTEAWT-00-0000-00000HBE8)_366.151lm@250mA_P=3.67056W_I=249.8mA



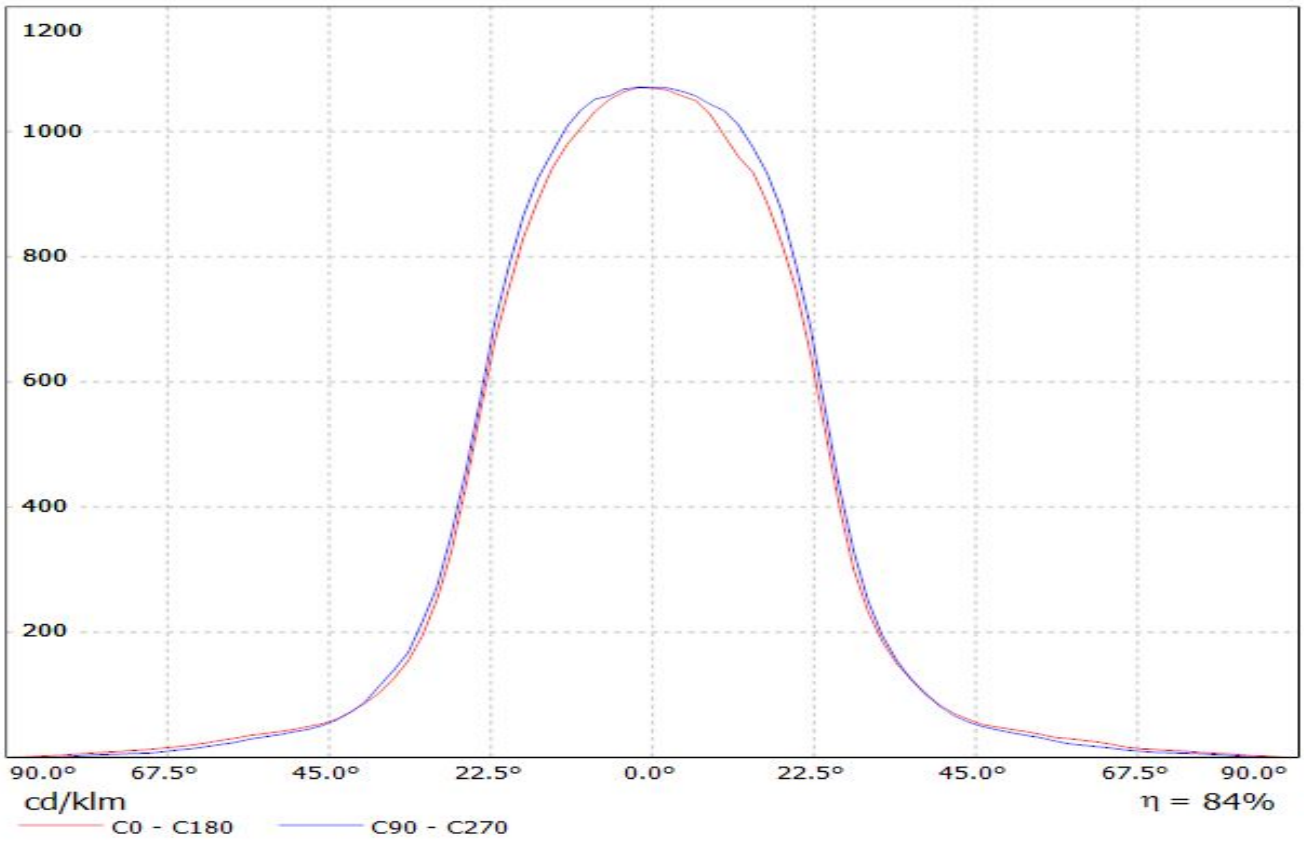
Luminaire: LEDiL Oy C12345_HB_5x1_W_(XM-L2) Eff.88.9%
Lamps: 1 x CREE_XM-L2_5x1_(XMLBWT-0-7B4-T30-0L-0001)_457.06lm@250mA_P=3.50469W_I=249.8mA



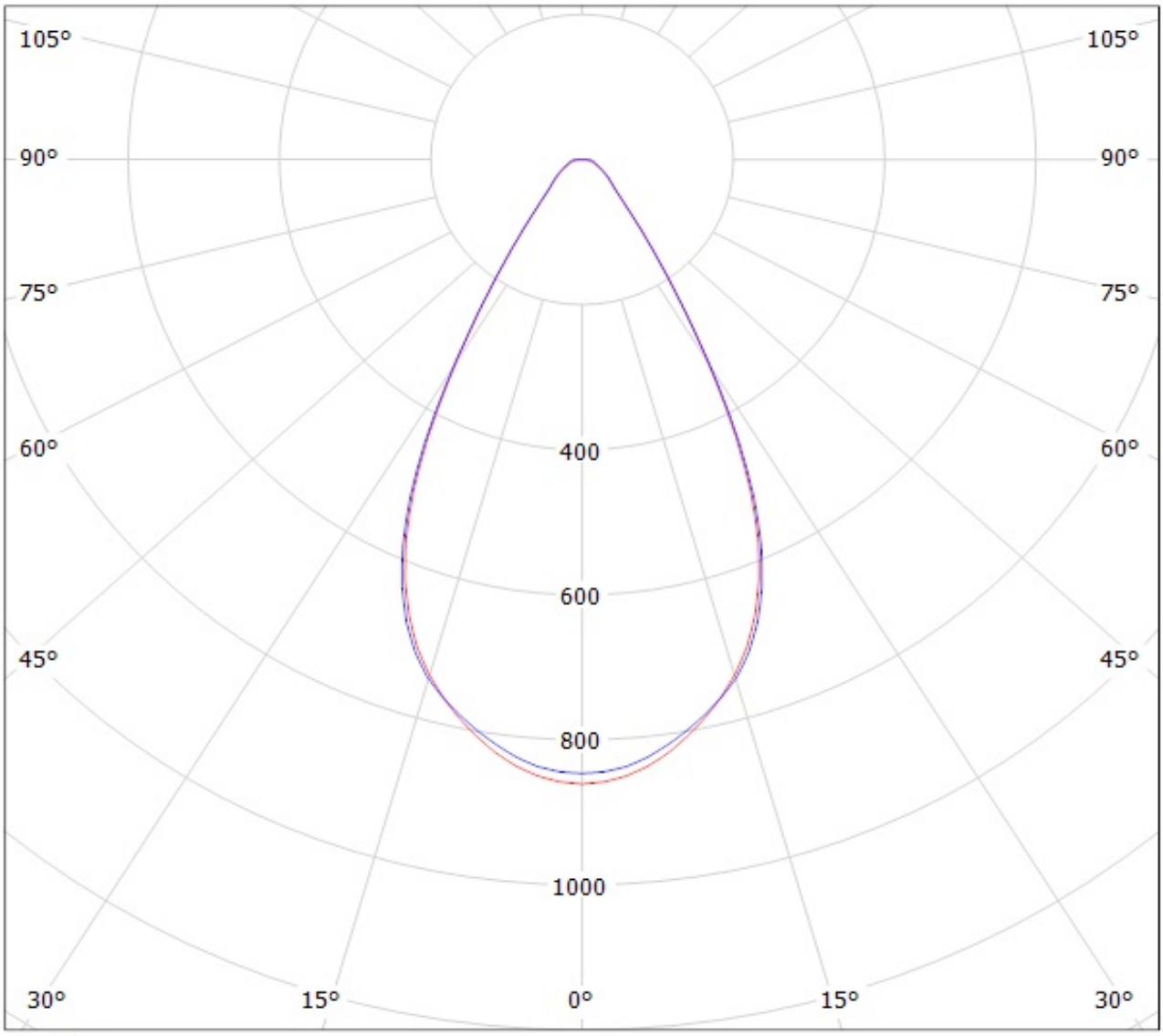
Luminaire: LEDIL OY C12345_HB-5X1 (RE) Efficiency=89%
Lamps: 1 x Luxeon Rebel (395lm@250mA)



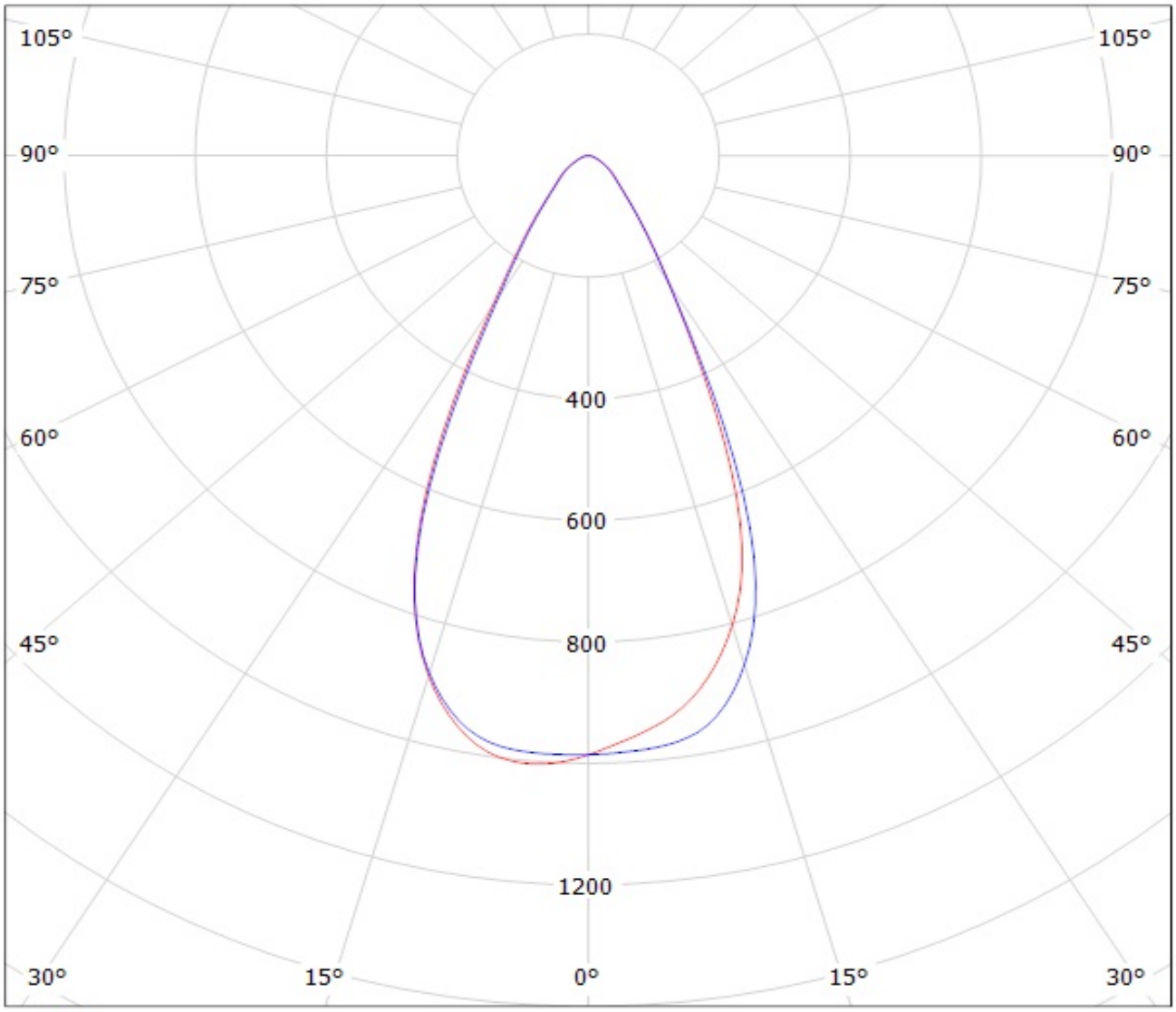
Luminaire: LEDiL C12345_HB-5X1-W_(NVS19) Eff. 85%
Lamps: 1 x Nichia NVS19 (457lm@250mA)



Luminaire: Ledil Oy C12345-HB-5x1 C12345-HB-5x1 LOR=89%
Lamps: 1 x Cree XM-L 5x1 module 473lm @ 250mA



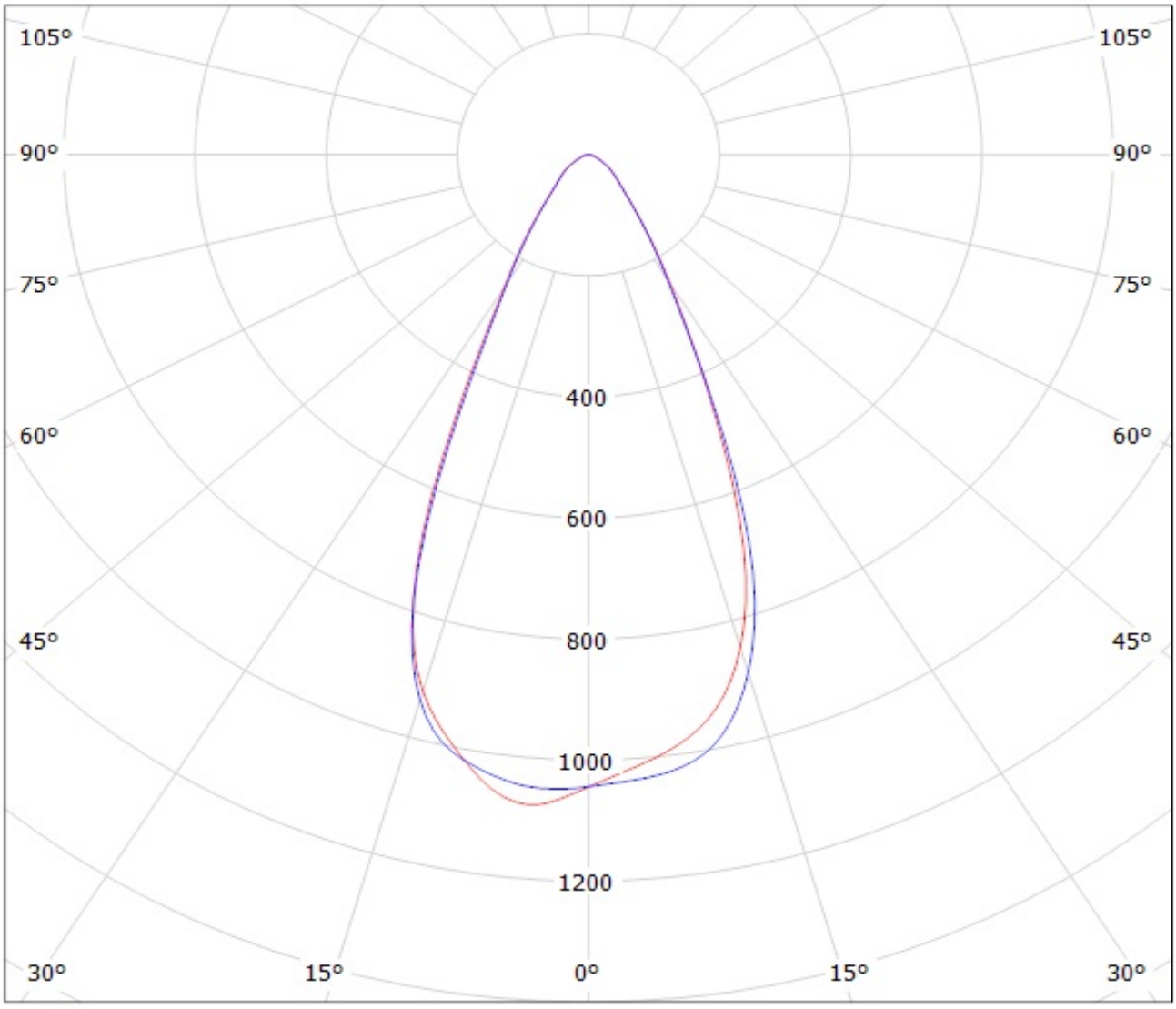
Luminaire: LEDIL OY C12345_HB-5X1 (XP-G) Efficiency=89%
Lamps: 1 x Cree XP-G (325lm@250mA)



cd/klm

C0 - C180 C90 - C270

Luminaire: LEDIL OY C12345_HB-5X1 (XP-E) Efficiency=90%
Lamps: 1 x Cree XP-E (352lm@250mA)

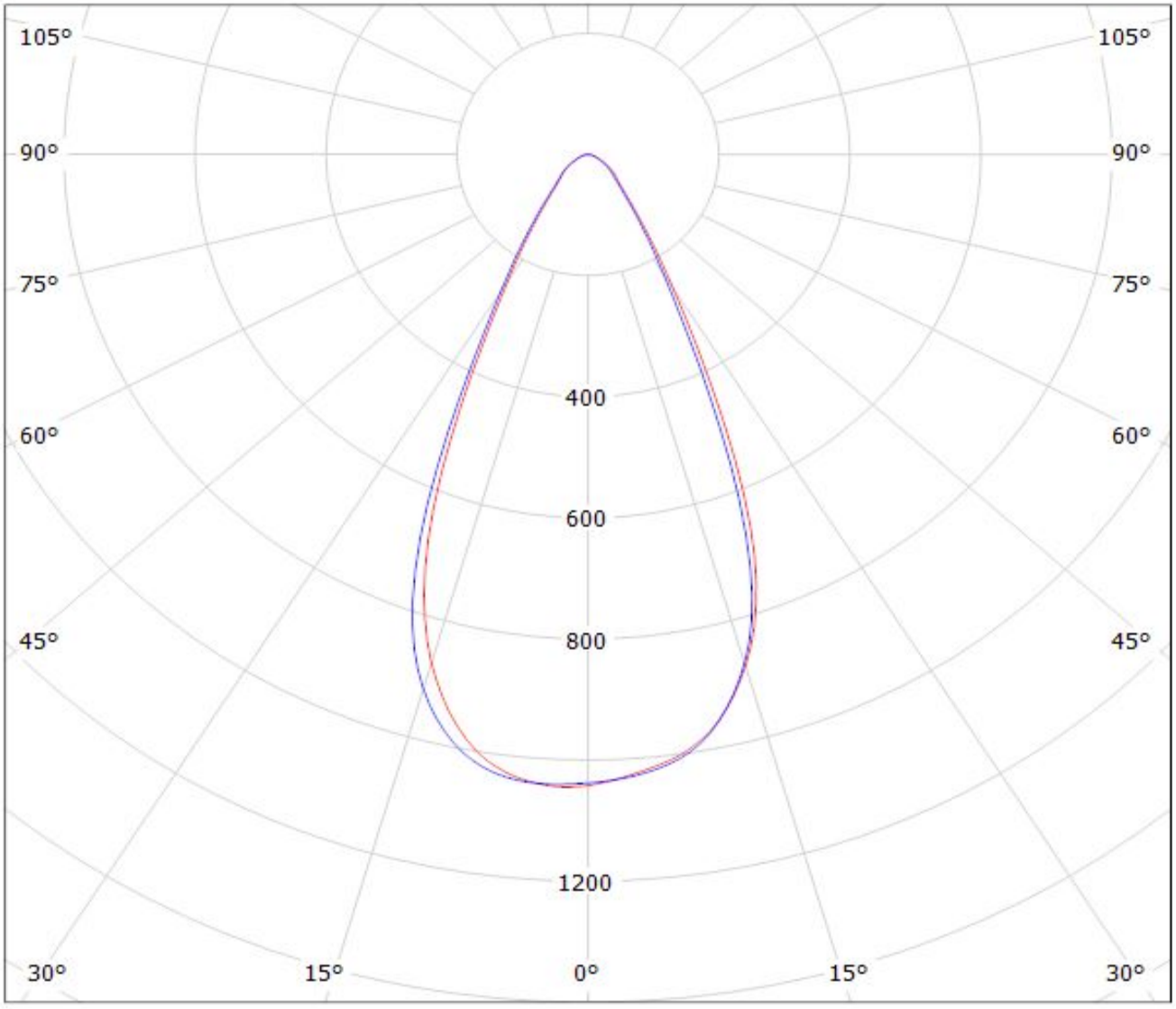


cd/klm

η = 90%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C12345_HB_5x1_W_(XT-E) Eff.86.6%
Lamps: 1 x CREE_XT-E_5x1_(XTEAWT-00-0000-00000HBE8)_366.151lm@250mA_P=3.67056W_I=249.8mA

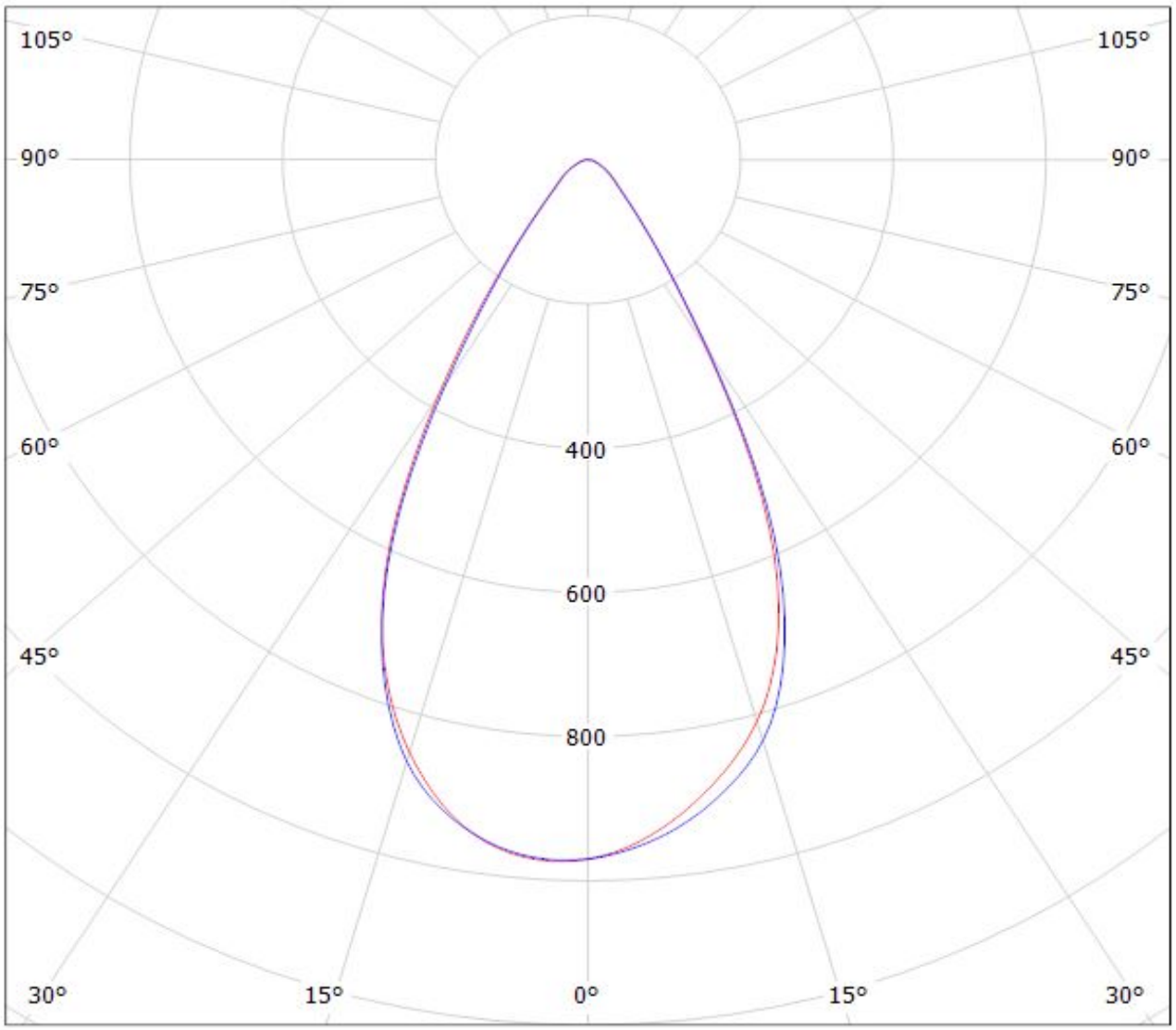


cd/klm

η = 87%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C12345_HB_5x1_W_(XM-L2) Eff.88.9%
Lamps: 1 x CREE_XM-L2_5x1_(XMLBWT-0-7B4-T30-0L-0001)_457.06lm@250mA_P=3.50469W_I=249.8mA

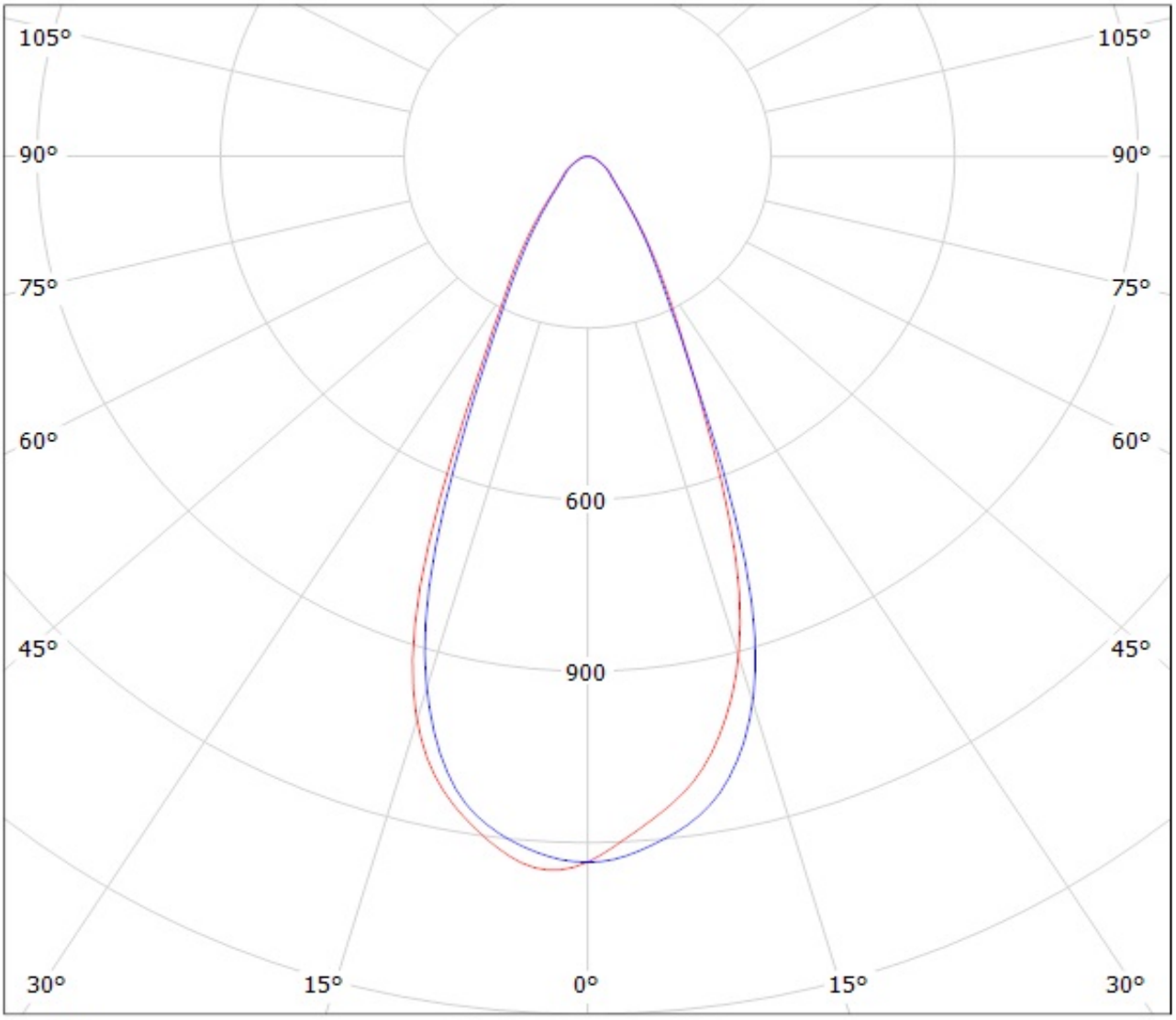


cd/klm

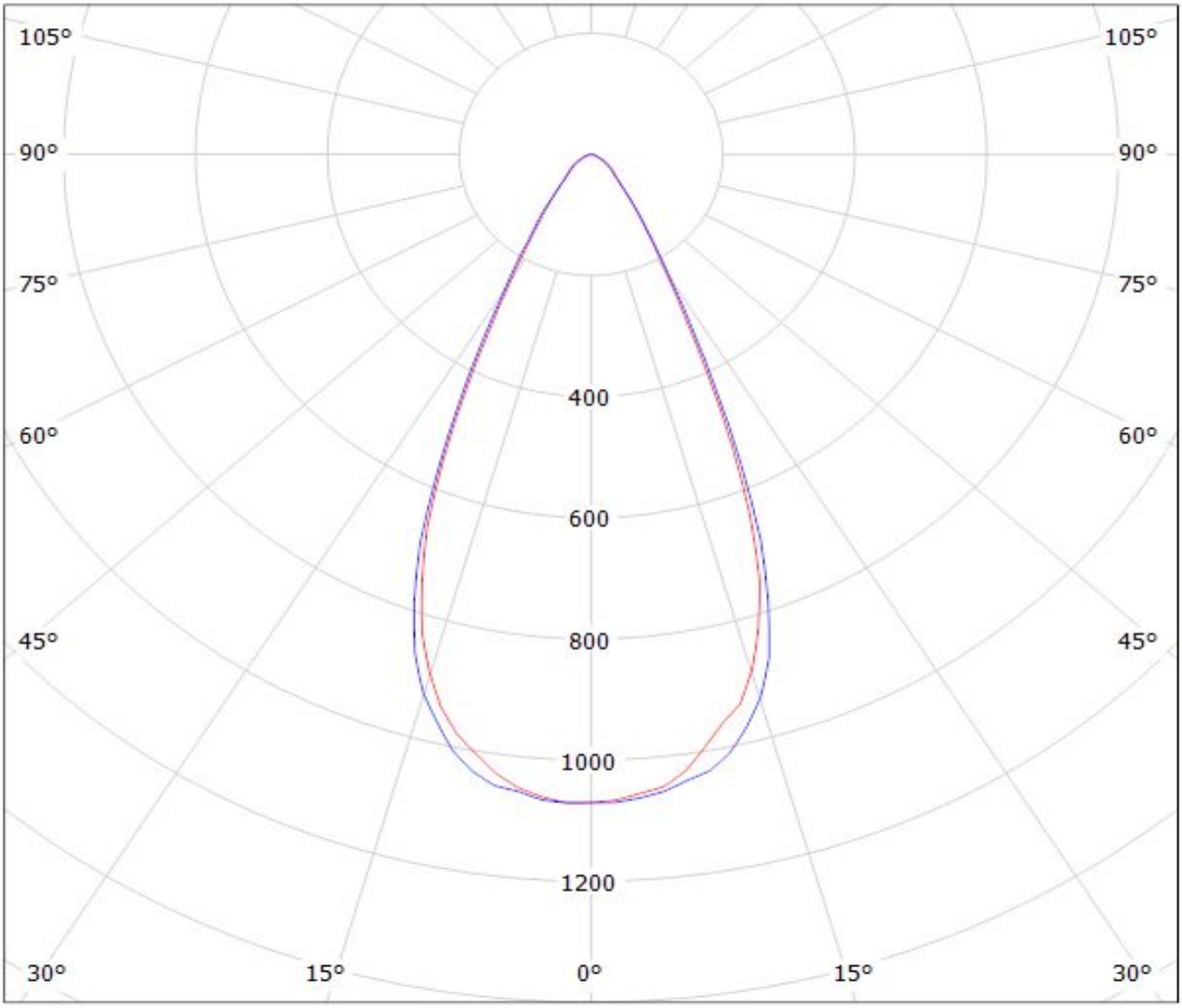
η = 89%

C0 - C180 C90 - C270

Luminaire: LEDIL OY C12345_HB-5X1 (RE) Efficiency=89%
Lamps: 1 x Luxeon Rebel (395lm@250mA)



Luminaire: LEDiL C12345_HB-5X1-W_(NVS19) Eff. 85%
Lamps: 1 x Nichia NVS19 (457lm@250mA)



cd/klm

η = 84%

C0 - C180 C90 - C270

NOTE: The typical divergence will be changed by different color, chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.