

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	Light	Efficiency	cd/lm	Connector
	Angle	Beam			
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	-	-	-



D

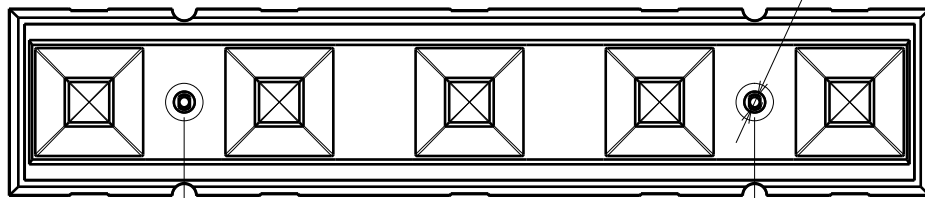
C

B

A

4

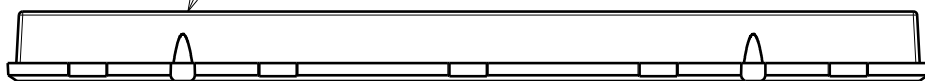
4



76.2

Position pins
Bottom view

Height 8,5mm from PCB top



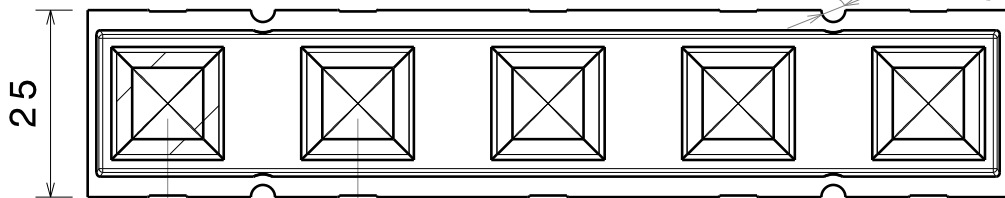
Front view

76.2

4x ϕ 3.2
screw holes

3

3



25

25.4

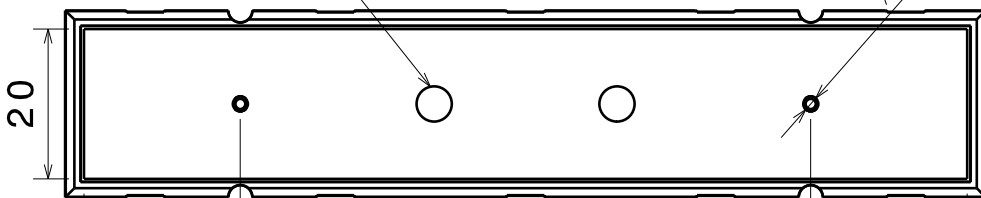
123

Top view

2

2

Wire holes



20

76.2

118

PCB-suggestion

Sealing: PCB goes
inside lens module.



Cross section

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Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE

Datasheet HB-5x1 Lens

DRAWN BY

mav

DATE

14.03.2012

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

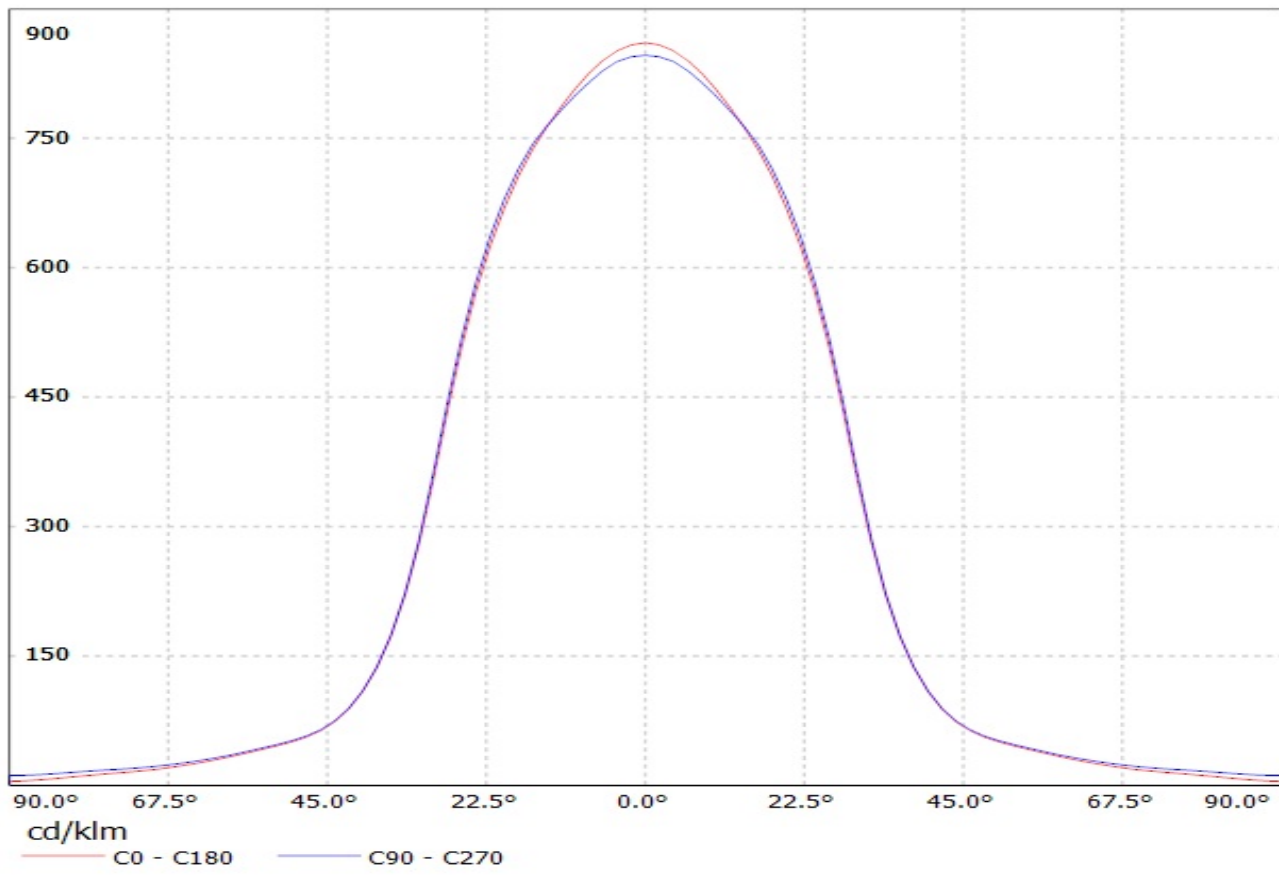
1

1

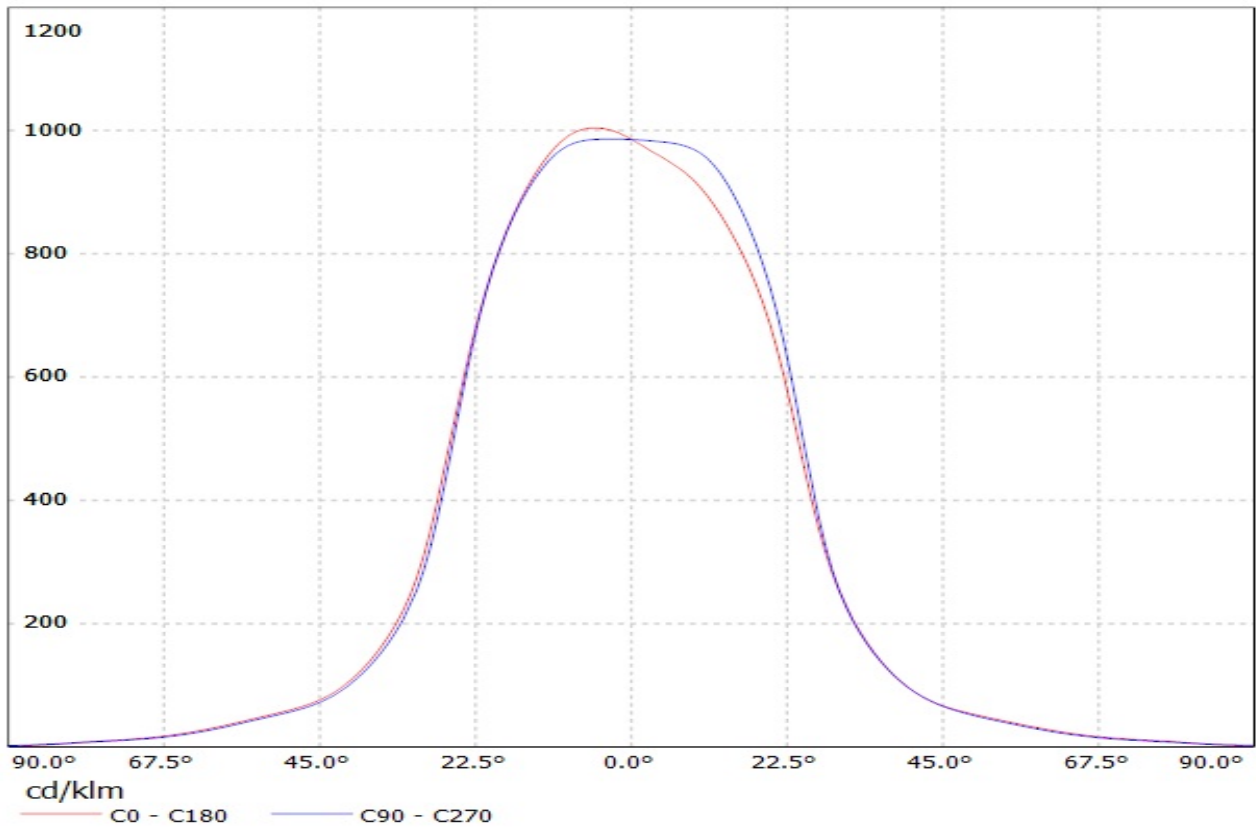
D

A

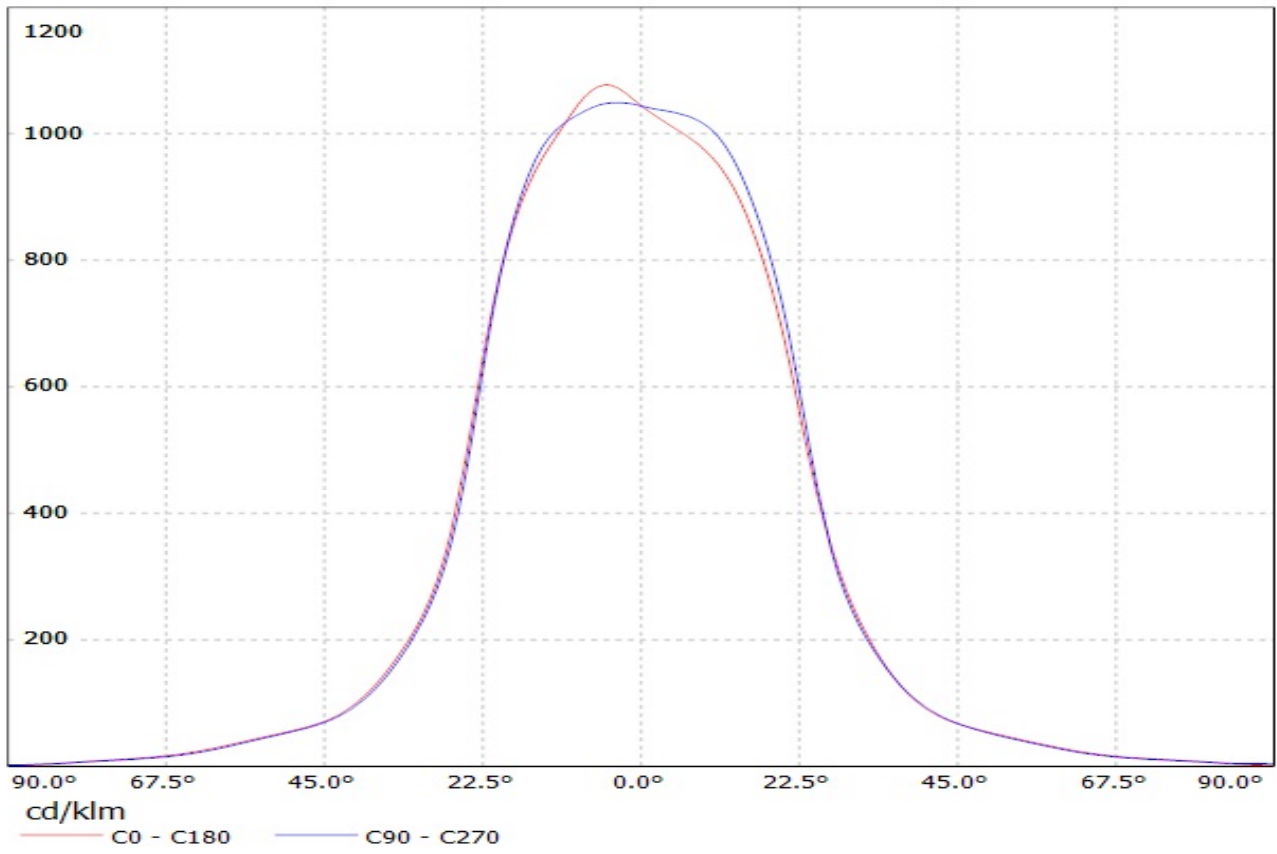
Luminaire: Ledil Oy C12345-HB-5x1 C12345-HB-5x1 LOR=89%
Lamps: 1 x Cree XM-L 5x1 module 473lm @ 250mA



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

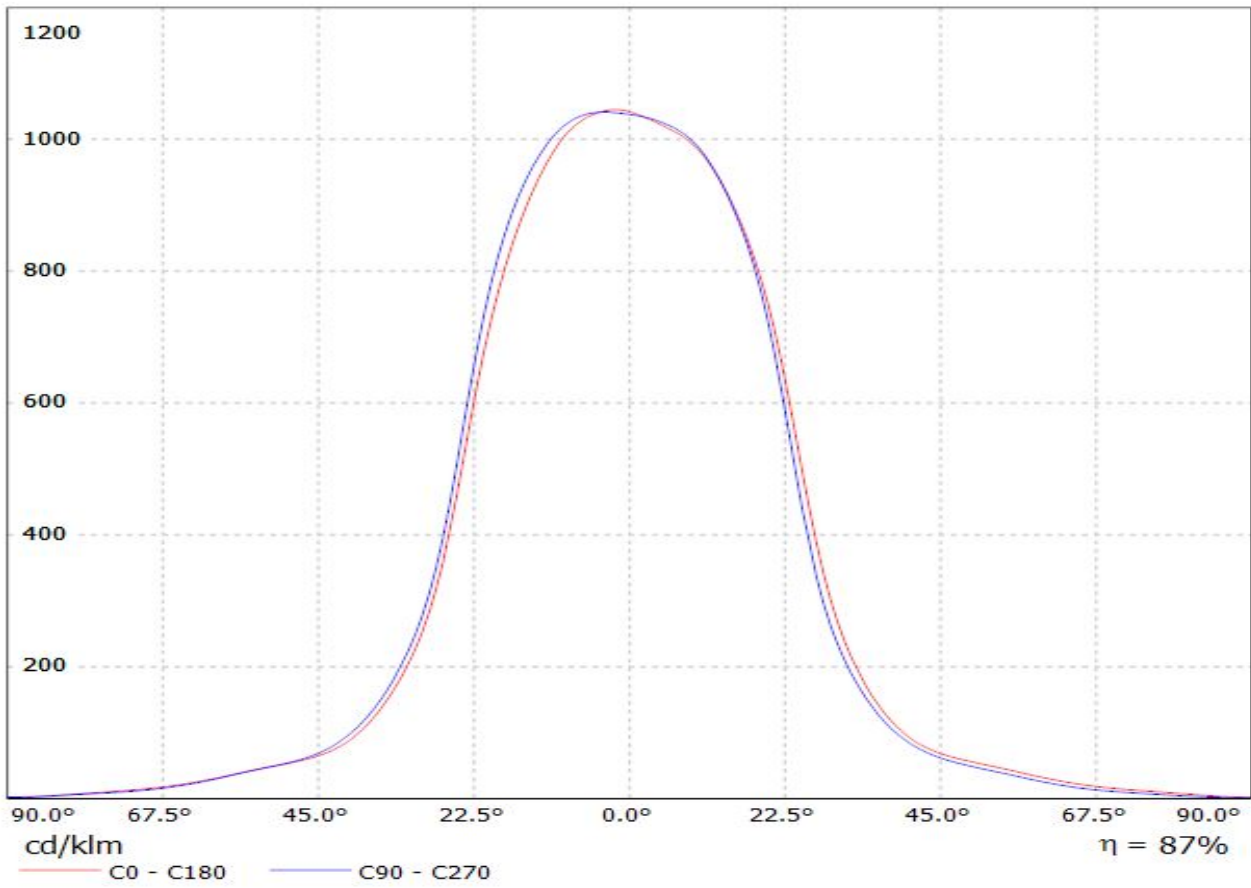


Luminaire: LEDIL OY C12345_HB-5X1 (XP-E) Efficiency=90%
Lamps: 1 x Cree XP-E (352lm@250mA)

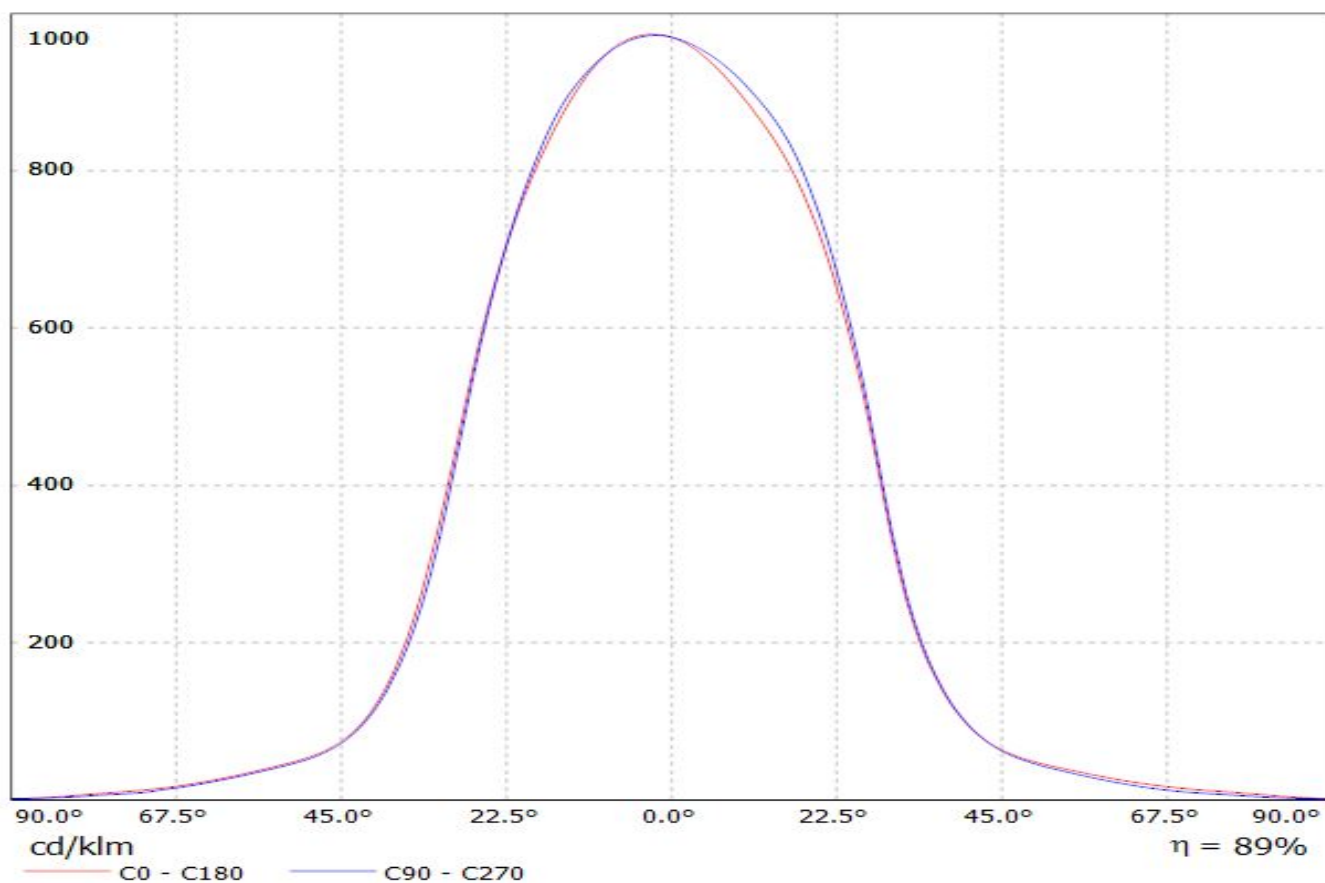


Luminaire: LEDiL Oy C12345_HB_5x1_W_(XT-E) Eff.86.6%

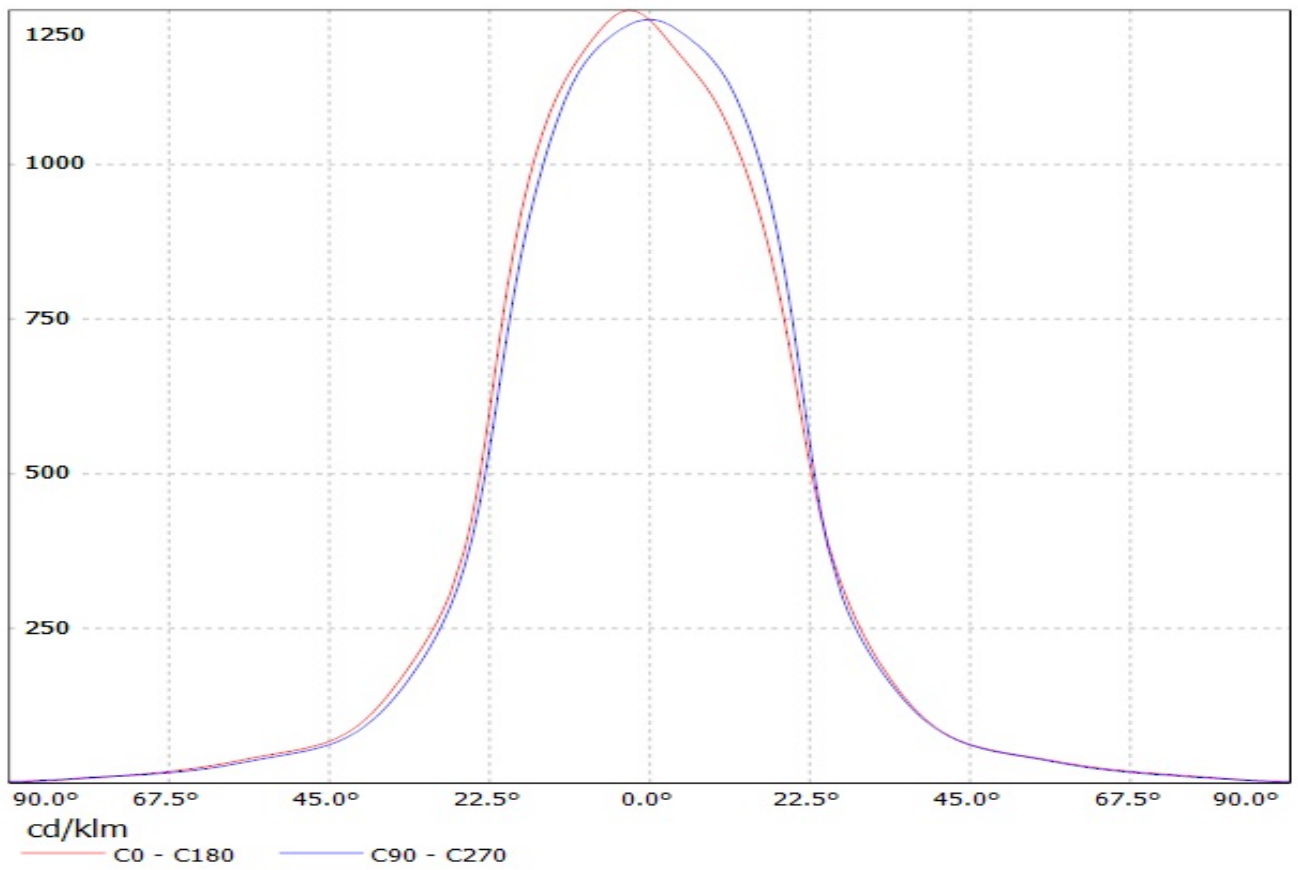
Lamps: 1 x CREE_XT-E_5x1_(XTEAWT-00-0000-00000HBE8)_366.151lm@250mA_P=3.67056W_I=249.8mA



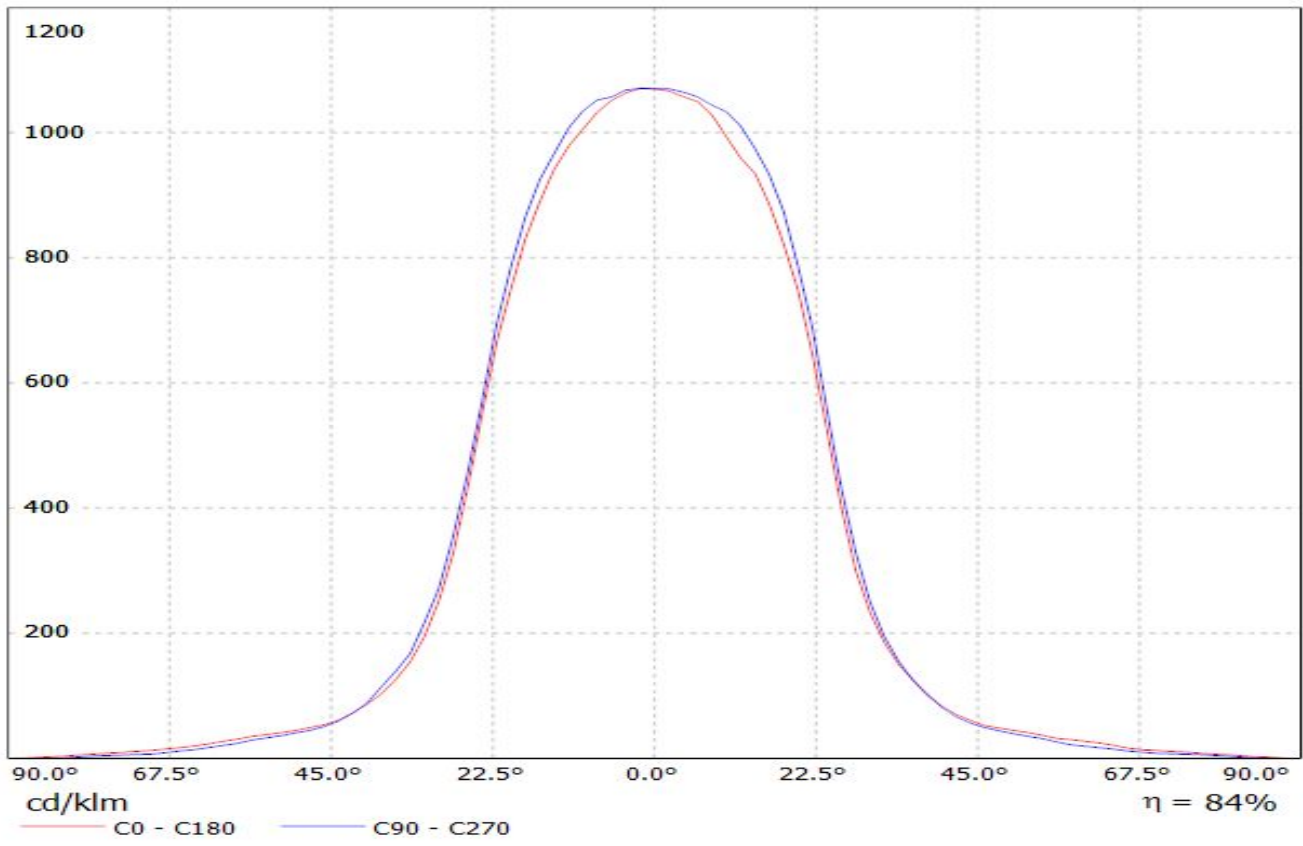
Luminaire: LEDiL Oy C12345_HB_5x1_W_(XM-L2) Eff.88.9%
Lamps: 1 x CREE_XM-L2_5x1_(XMLBWT-0-7B4-T30-0L-0001)_457.06lm@250mA_P=3.50469W_I=249.8mA



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

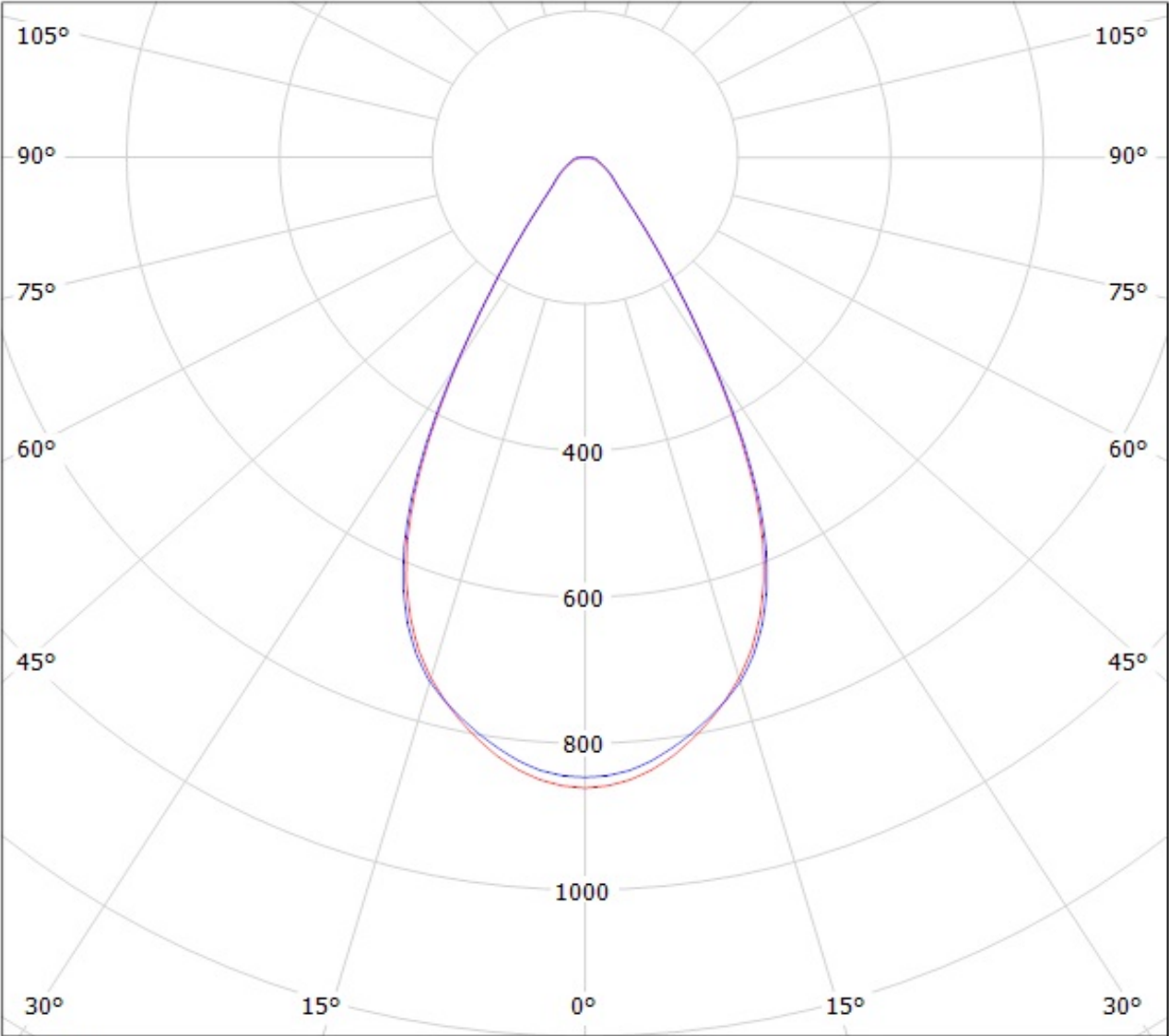


Luminaire: LEDiL C12345_HB-5X1-W_(NVS19) Eff. 85%
Lamps: 1 x Nichia NVS19 (457lm@250mA)



Luminaire: Ledil Oy C12345-HB-5x1 C12345-HB-5x1 LOR=89%

Lamps: 1 x Cree XM-L 5x1 module 473lm @ 250mA

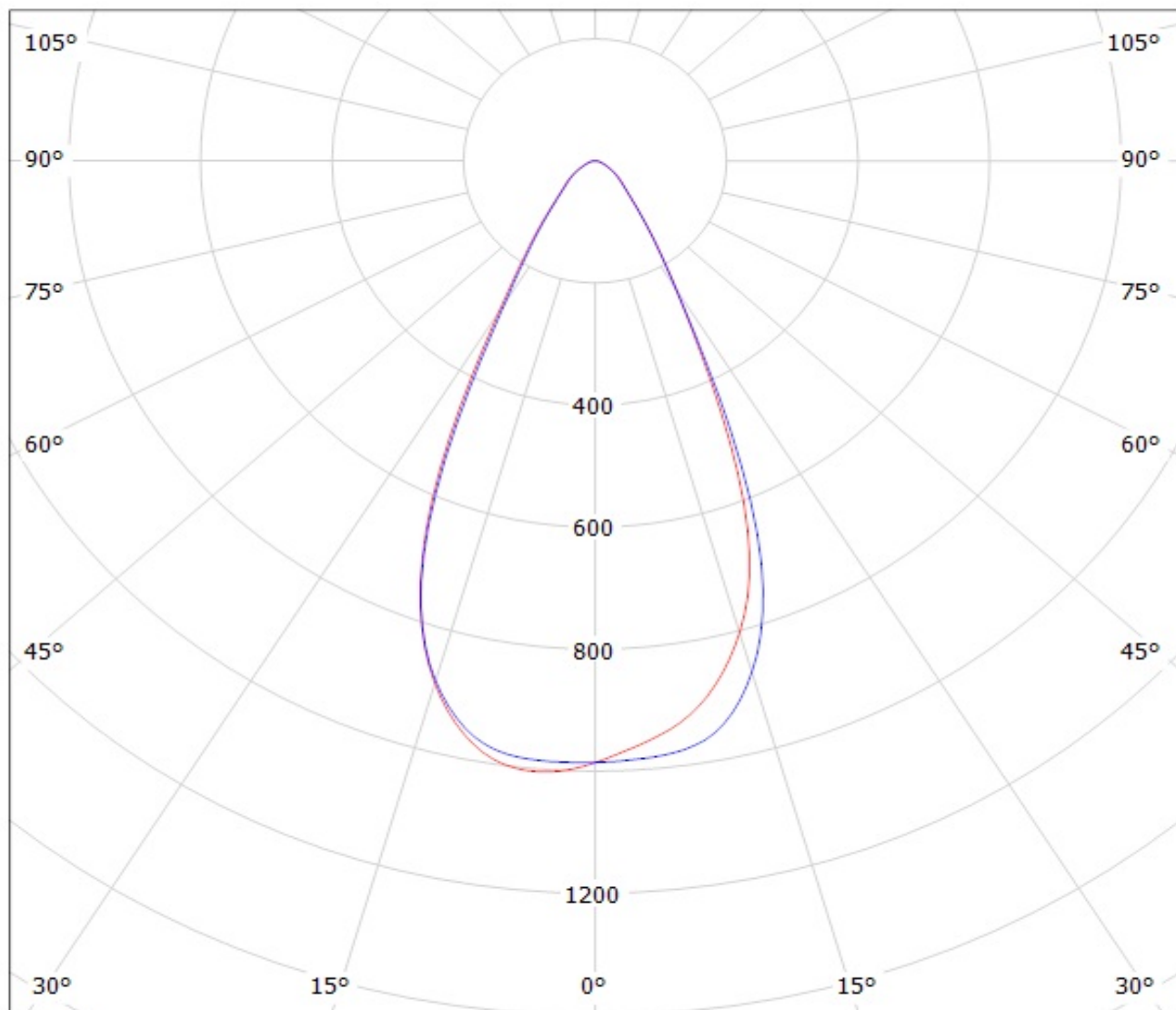


cd/klm

— C0 - C180

— C90 - C270

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



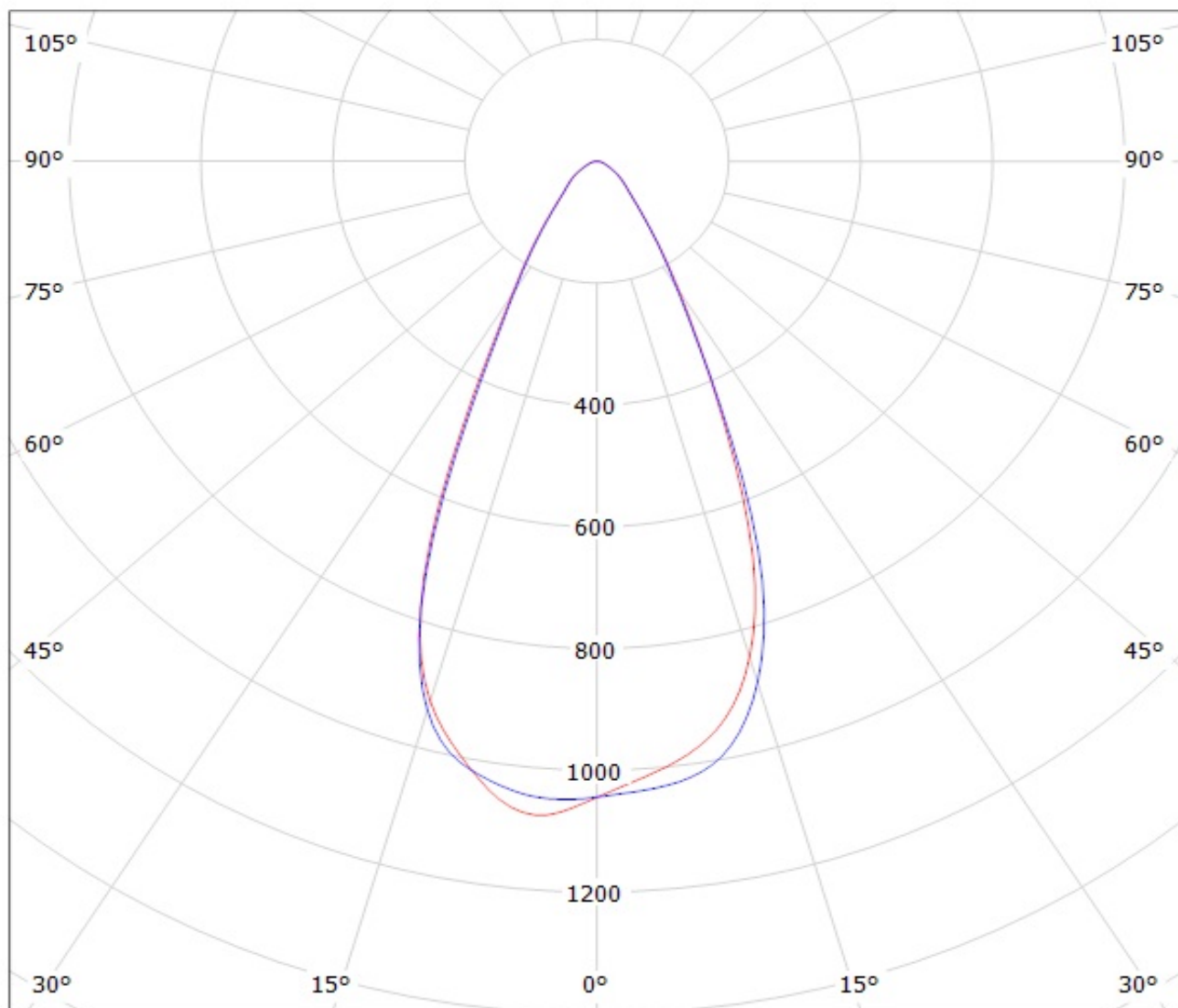
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDIL OY C12345_HB-5X1 (XP-E) Efficiency=90%

Lamps: 1 x Cree XP-E (352lm@250mA)



cd/klm

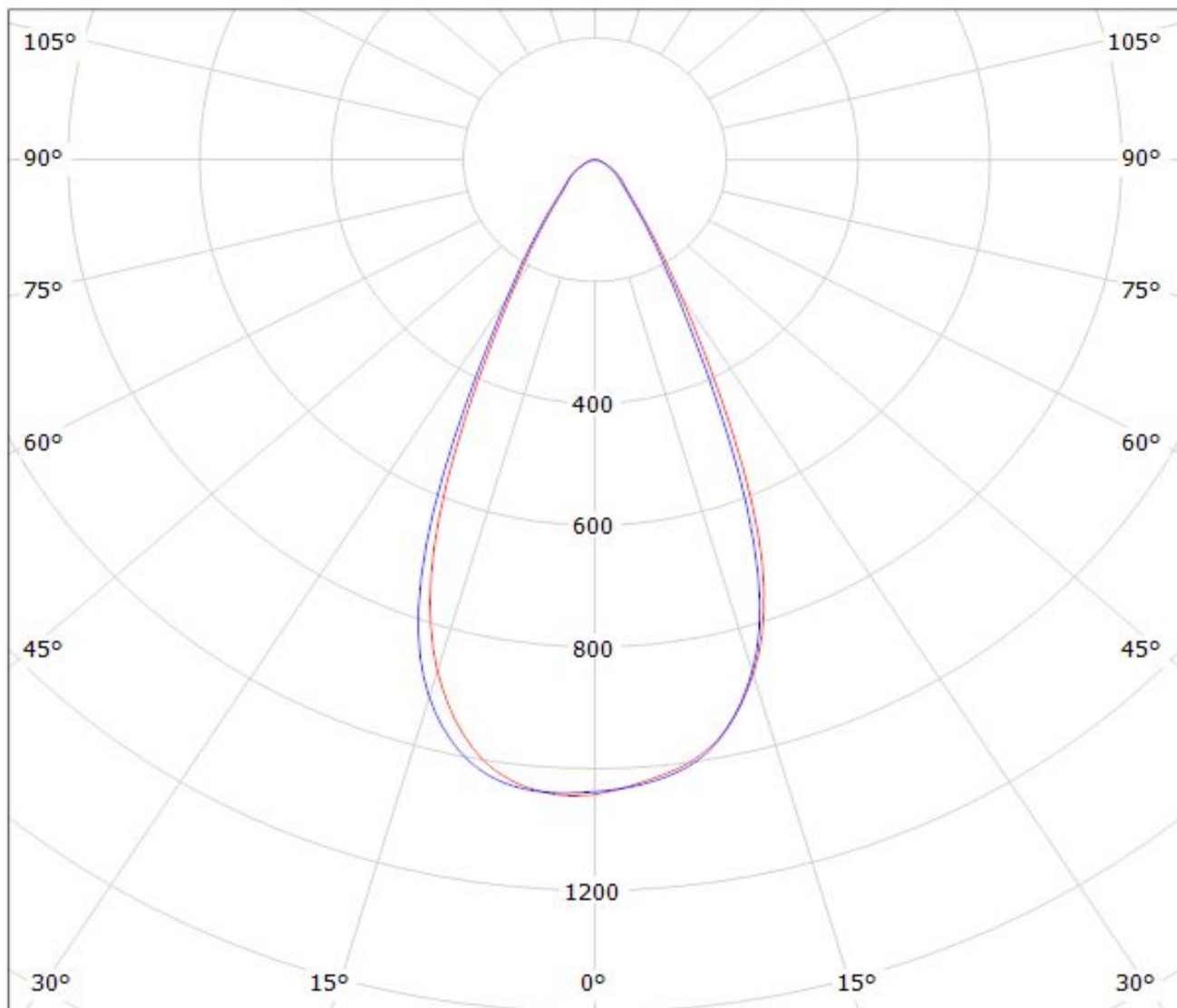
— C0 - C180

— C90 - C270

$\eta = 90\%$

Luminaire: LEDiL Oy C12345_HB_5x1_W_(XT-E) Eff.86.6%

Lamps: 1 x CREE_XT-E_5x1_(XTÉAWT-00-0000-00000HBE8)_366.151lm@250mA_P=3.67056W_I=249.8mA



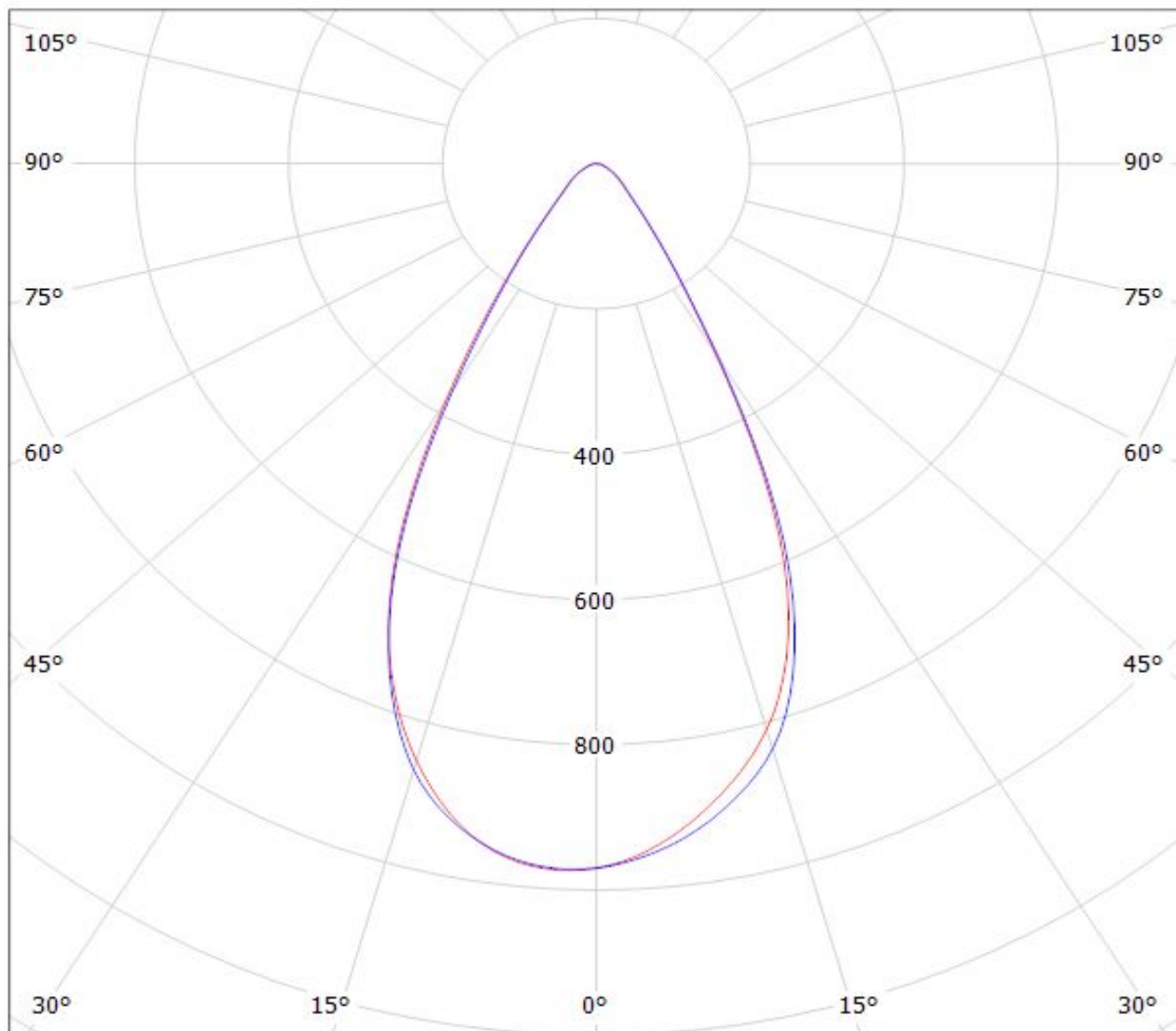
cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

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



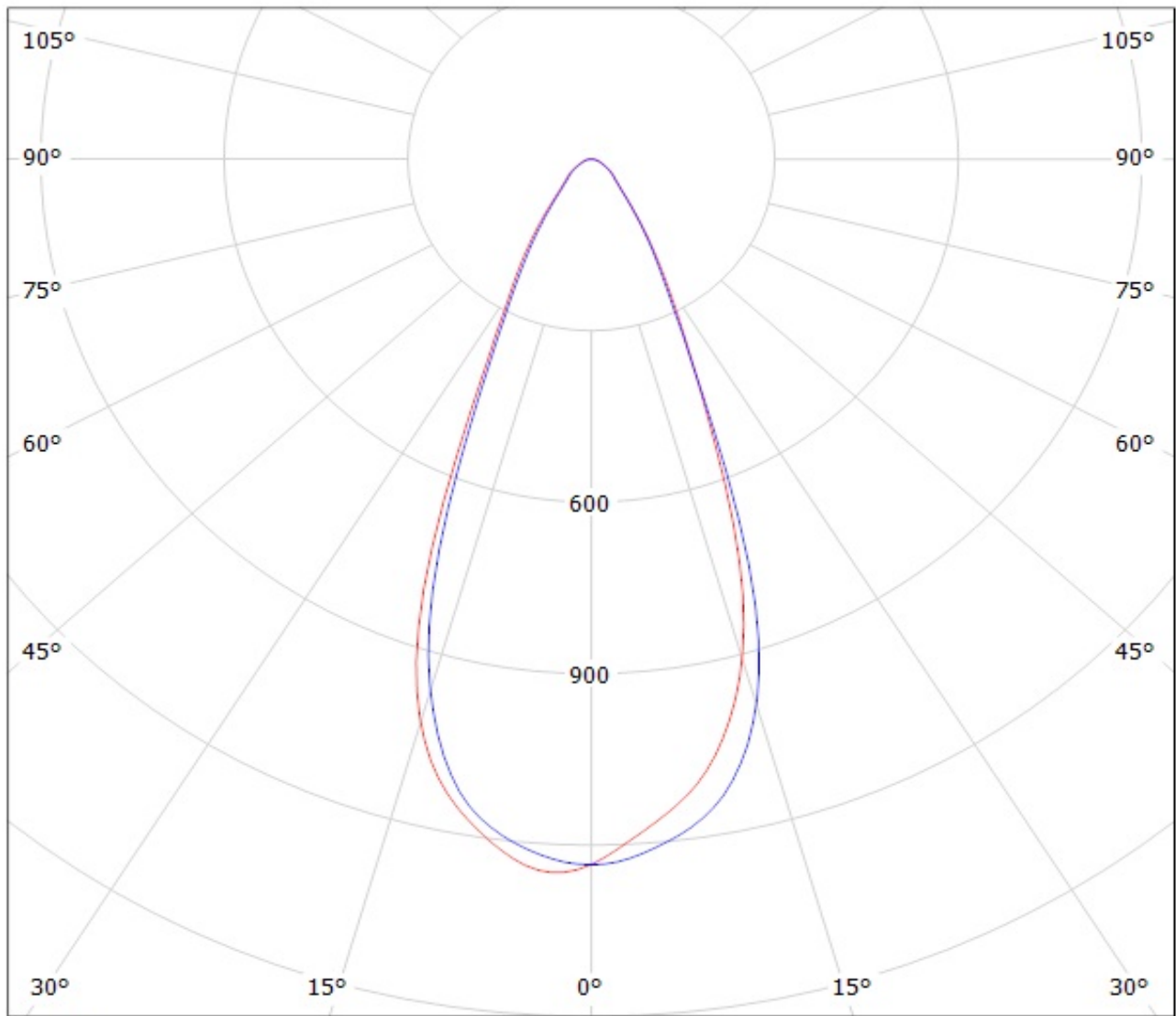
cd/klm

— C0 - C180

— C90 - C270

$\eta = 89\%$

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

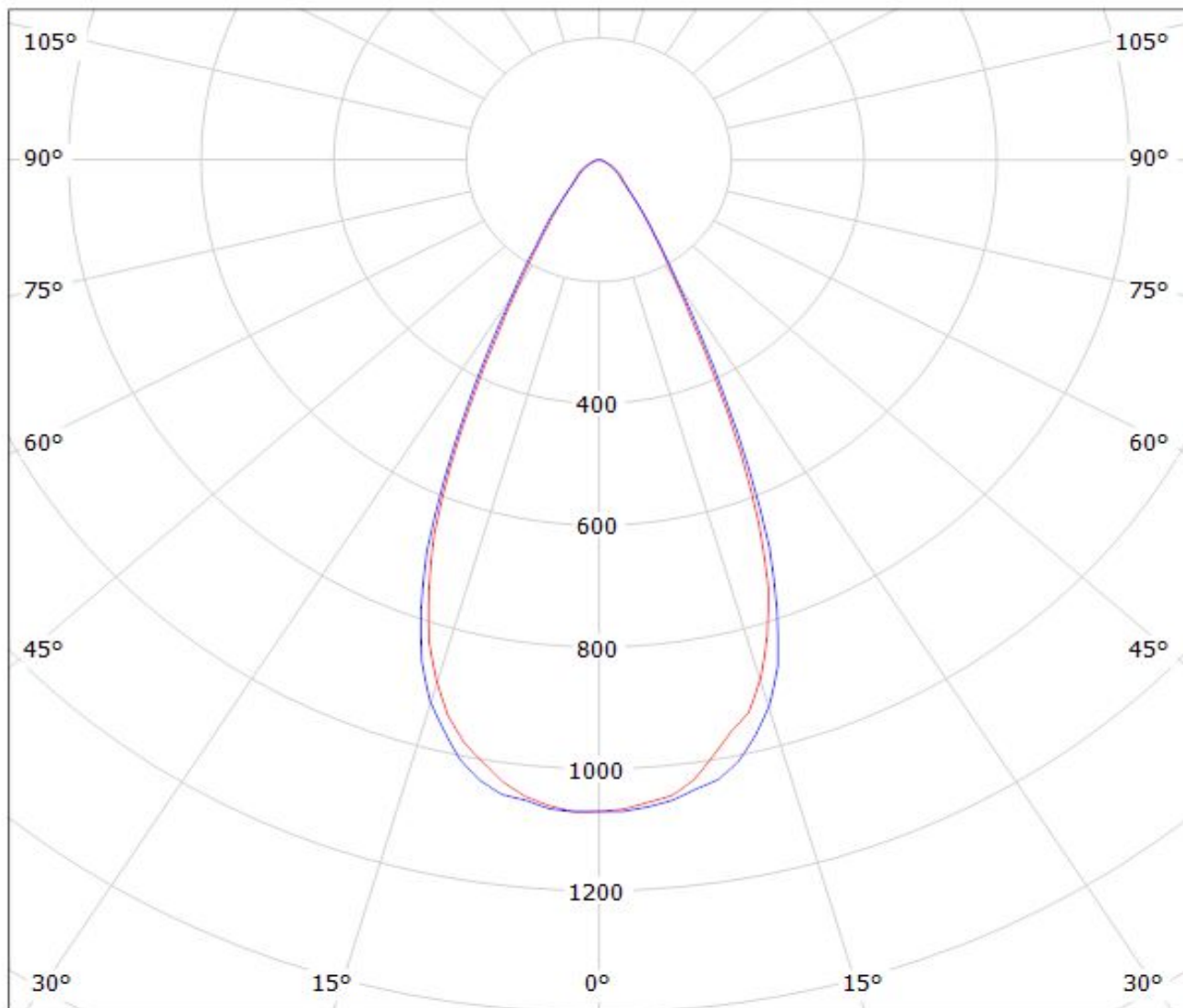


cd/klm

— C0 - C180

— C90 - C270

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



cd/klm

— C0 - C180

— C90 - C270

$\eta = 84\%$

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.