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PRODUCT DATASHEET
High Bay series
last update 23/9/2015

DETAILS



Product Number	C13232_HB-2X2-WW
Family	High Bay
Type	Lens array
Color	clear
Diameter	50x50 mm
Height	8,5 mm
Style	square
Optic Material	PMMA
Holder Material	
Fastening	screw, pin, glue
Status	ready
ROHS Comliant	Yes
Date Updated	29/09/2015

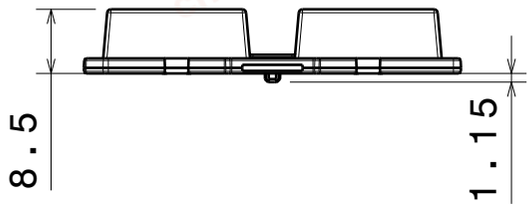
OPTICAL PROPERTIES

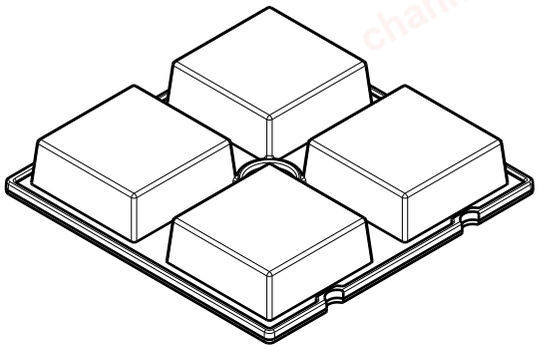
LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector
Oslon Square Gen3	sim: 69	Wide	sim: 94 %	sim: 1.070	-
Oslon SSL 80	54 deg	Wide	92 %	1.080	-
Z8Y15	56 deg	Wide	85 %	0.870	-
Z8Y19	56 deg	Wide	85 %	0.880	-
LUXEON Z ES	59 deg	Wide	90 %	1.000	-
TL1L4	60 deg	Wide	84 %	0.870	-
Oslon Square PC	63 deg	Wide	91 %	0.863	-
LH351Z	63 deg	Wide	89 %	0.860	-
XT-E	65 deg	Wide	91 %	0.900	-
Z5M1/Z5M2	65 deg	Wide	90 %	0.900	-
LH351B	65 deg	Wide	89 %	0.780	-
NVSxx19B/NVSxx19C	67 deg	Wide	91 %	0.800	-
LUXEON Q	67 deg	Wide	91 %	0.800	-
LH351A(3535)	68 deg	Wide	92 %	0.800	-
H35C1 (LEMWA33)	68 deg	Wide	89 %	0.800	-
XP-G2	69 deg	Wide	91 %	0.700	-
XP-G	69 deg	Wide	91 %	0.800	-

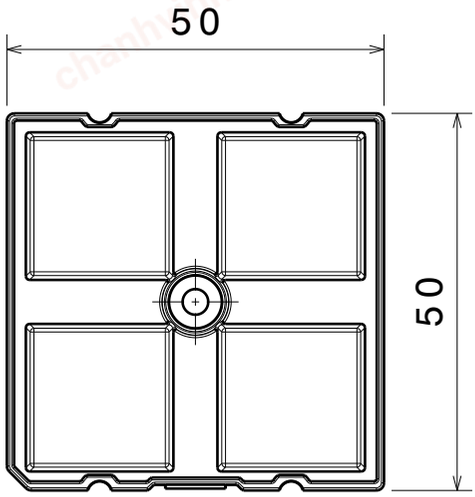
Ledil Oy
Salorankatu 10
24240 SALO, Finland

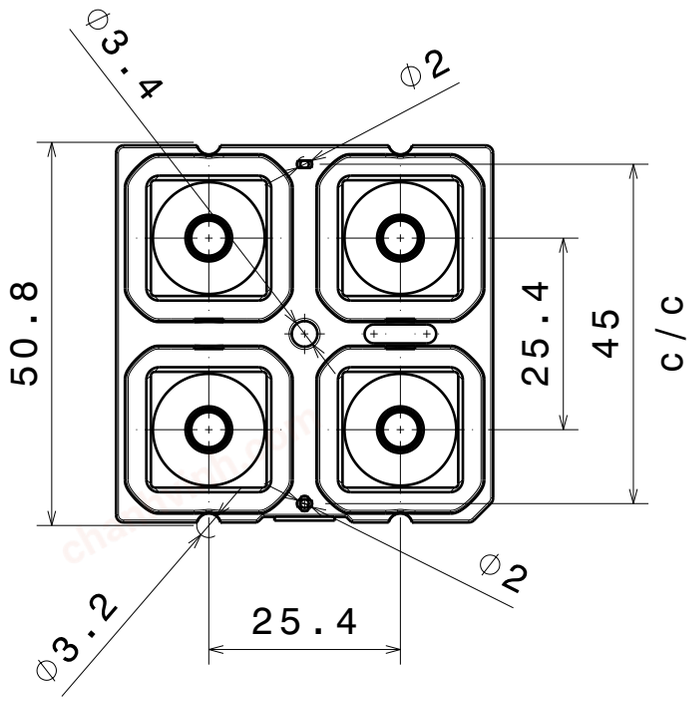
http://www.ledil.com
email: ledil@ledil.com
FAX: +358-2-733 8001

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INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C13232	HB-2x2-WW	PMMA	

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
up to 30mm class M, otherwise class C
According to DIN ISO 2768-2
Form and position: class L

LEDiL

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE

C13232_HB-2x2-WW

This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

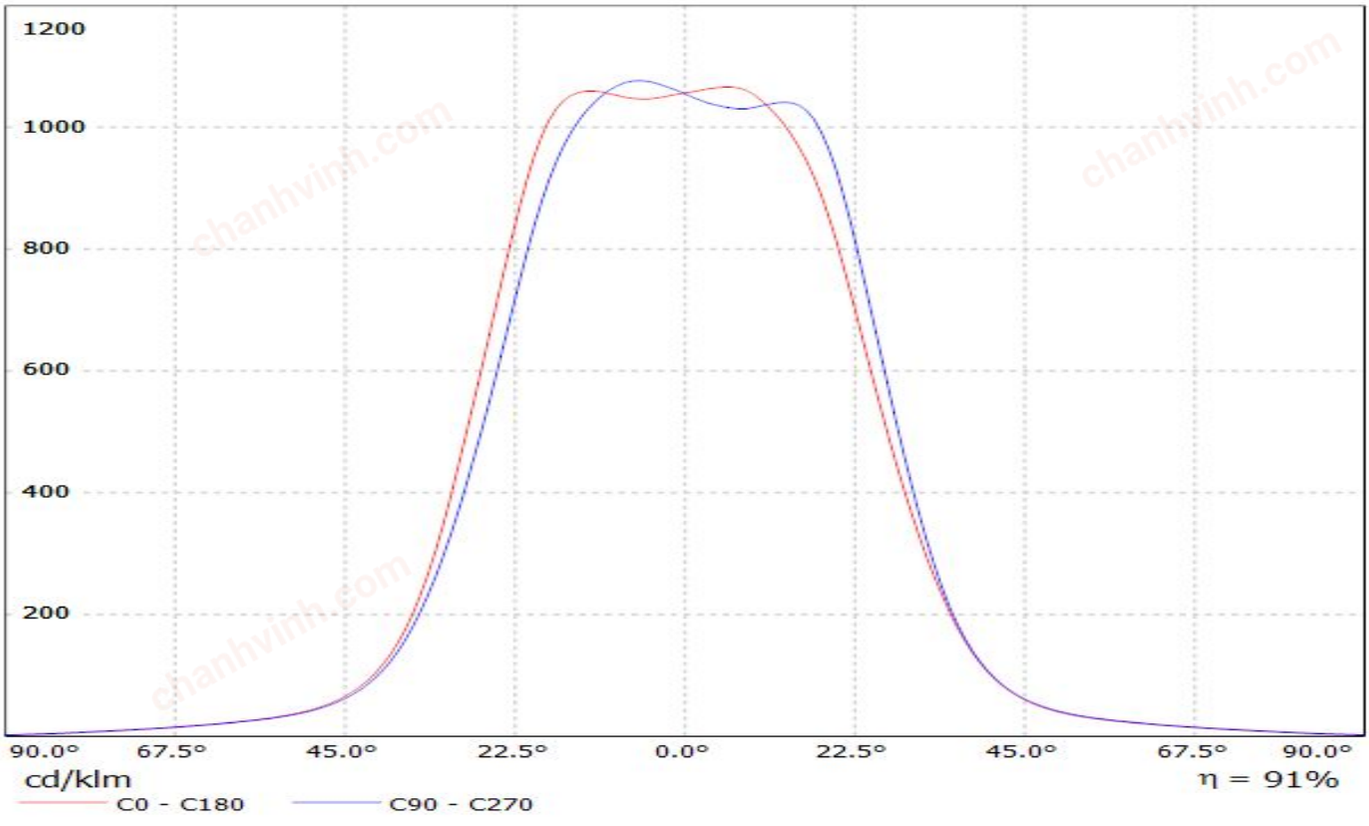
SIZE	PART NUMBER
A4	C13232

SCALE	WEIGHT		SHEET
1:1	10,8 g		1/1

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LEDiL Oy C13232_HB-2x2-WW_(SSL80) Eff.91.5% / LDC (Linear)

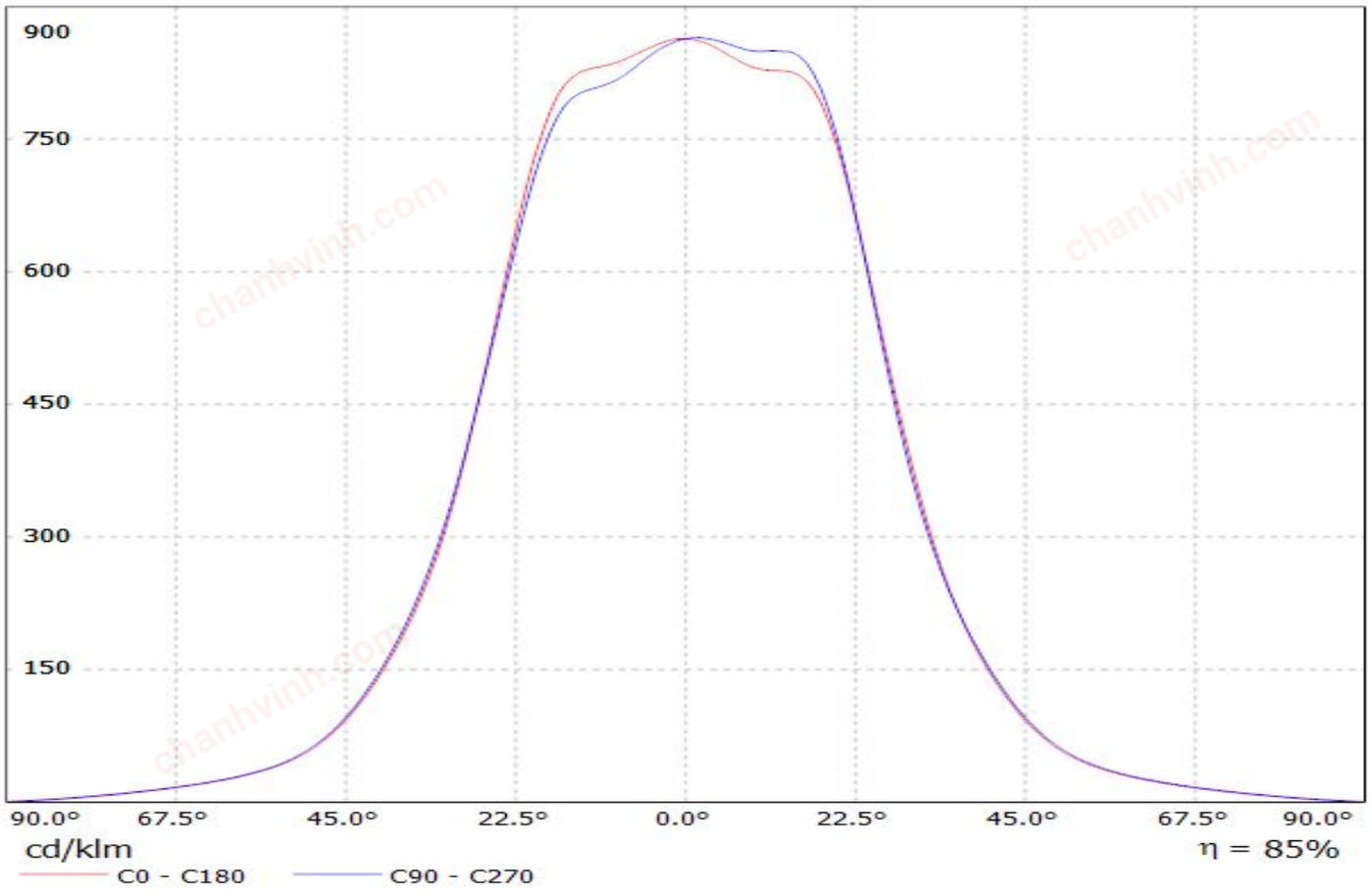
Luminaire: LEDiL Oy C13232_HB-2x2-WW_(SSL80) Eff.91.5%
Lamps: 1 x Osram Oslon SSL80 (308lm@250mA)



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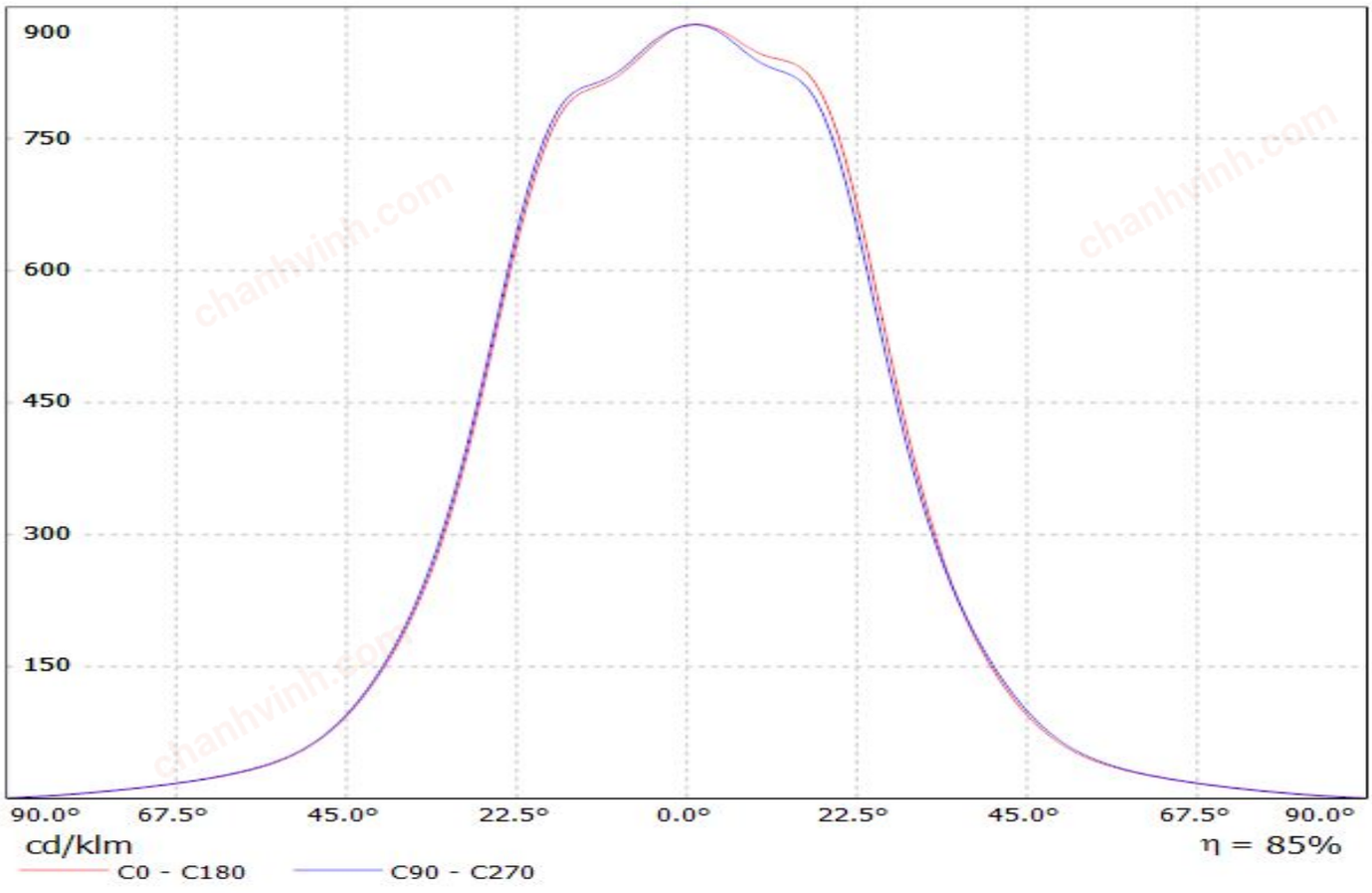
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(WICOP2_Z8Y15)
Lamps: 1 x SEOUL_WICOP2_Z8Y15_336.842lm@250mA_P=2.9399W_I=0.250A



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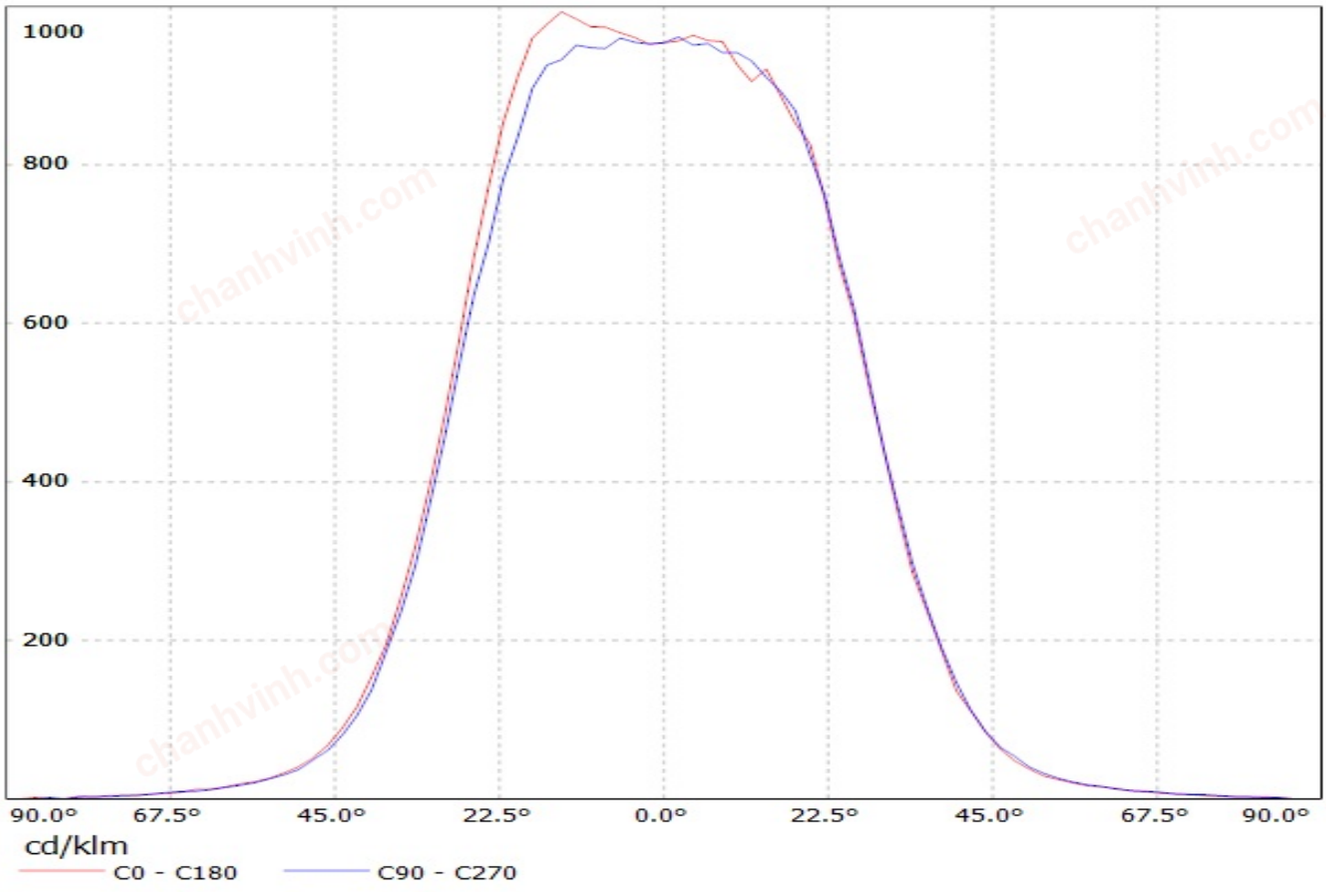
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(WICOP2_Z8Y19)
Lamps: 1 x SEOUL_WICOP2_Z8Y19_450.124lm@250mA_P=2.8579W_I=0.250A



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Luminaire: Ledil Oy C13232_HB-2X2-WW_(Luxeon_Z_ES) Efficiency=90%
Lamps: 1 x Luxeon Z ES (LXZ2-3090) 209lm @ 250mA CCT=3000k P=2.8W I=250mA

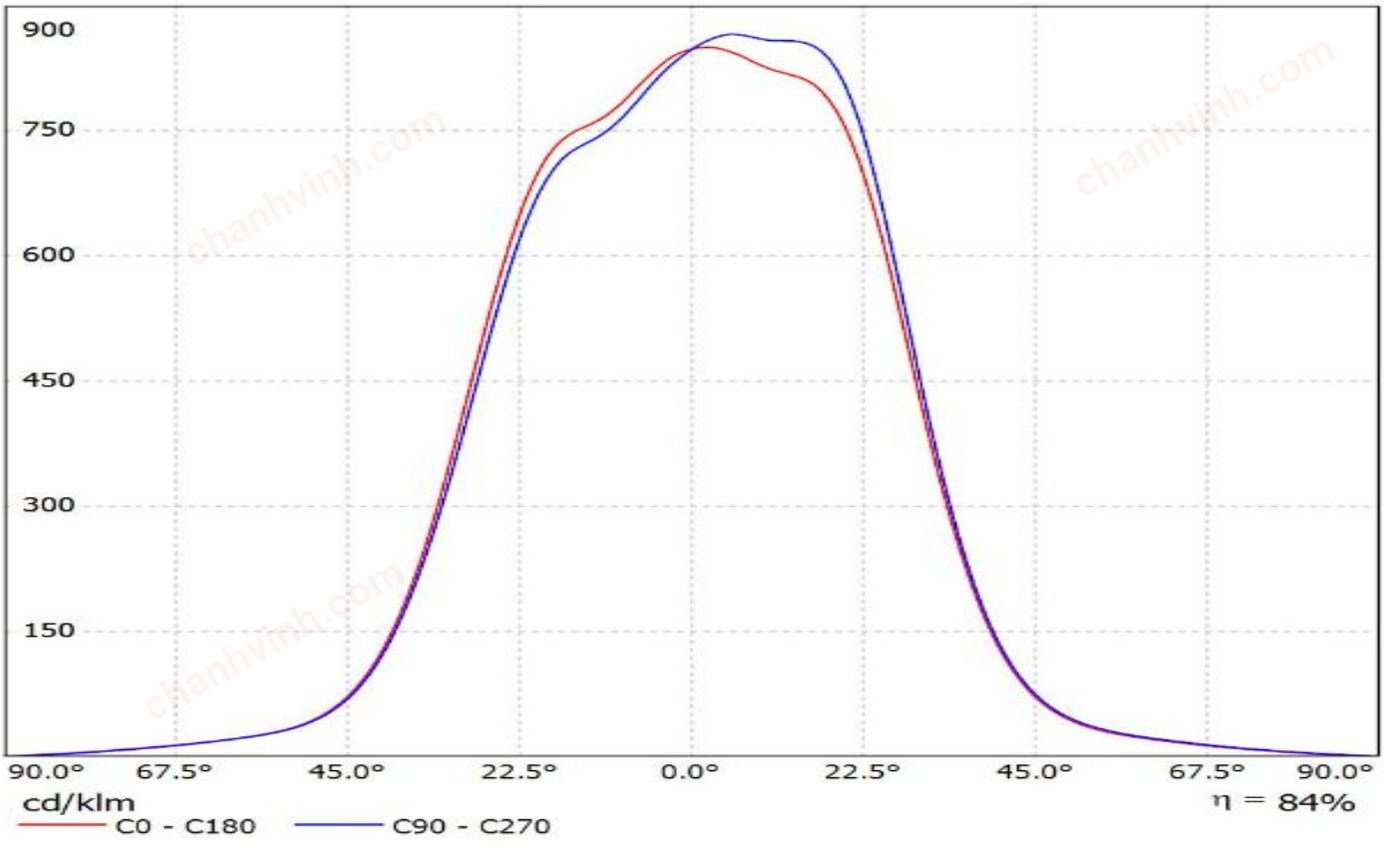


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Ledil C13232_HB-2X2-WW_(TL1L4) / LDC (Linear)

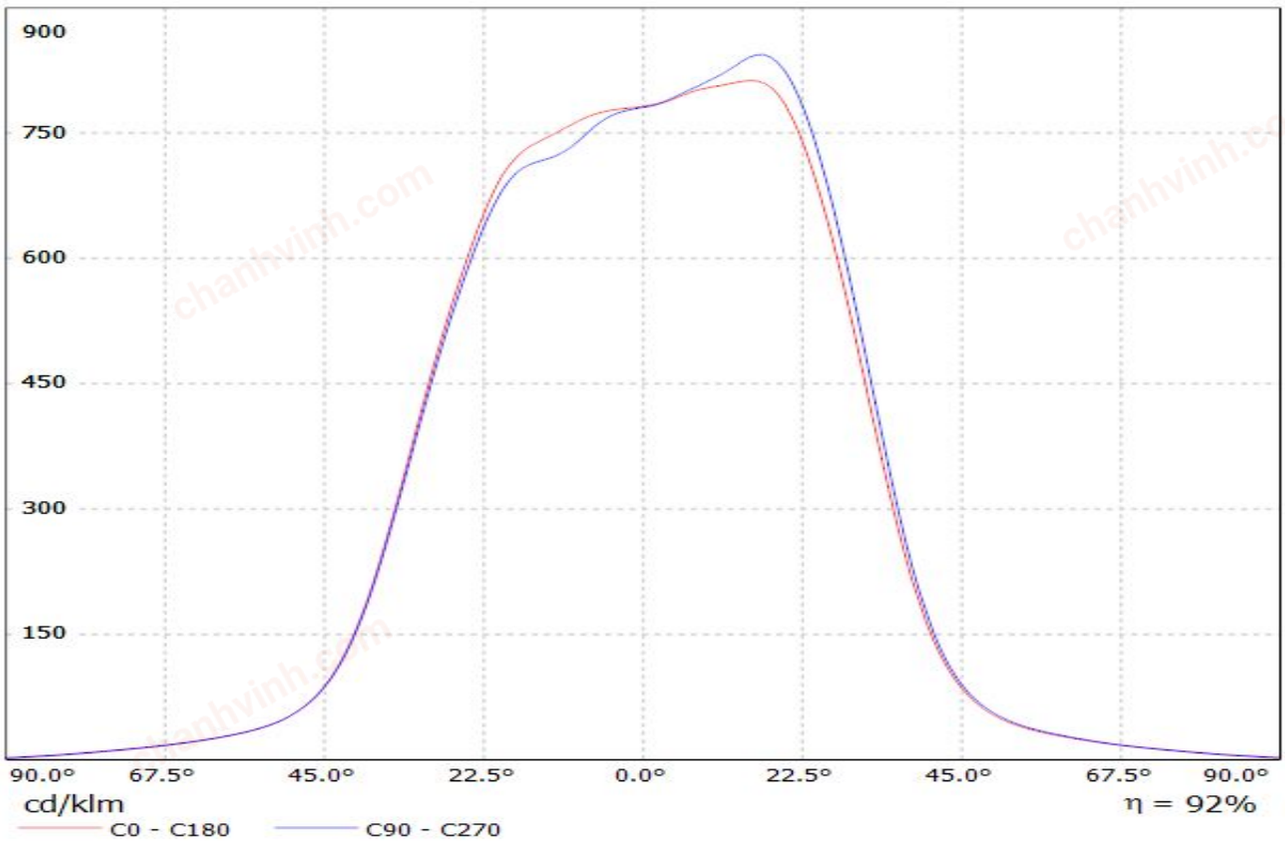
Luminaire: Ledil C13232_HB-2X2-WW_(TL1L4)
Lamps: 1 x Toshiba_TL1L4_2x2_(TL1L4-DW0)_472.639lm@250mA_CCT=6500K_P=2.9W_I=0.25A



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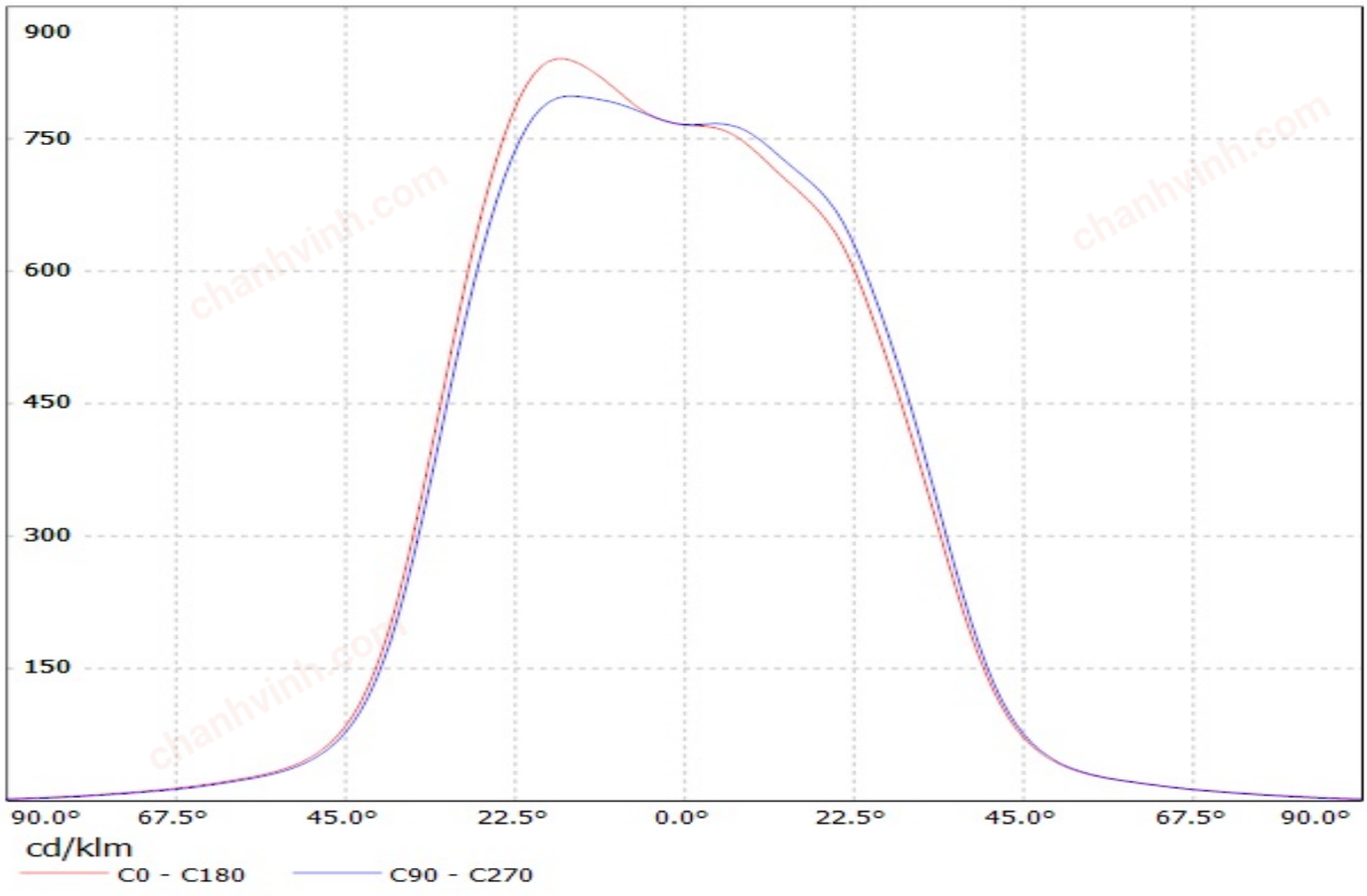
Luminaire: LEDiL Oy C13232_HB-2x2-WW_(Osram_Square_PC) Eff. 91,6%
Lamps: 1 x Osram Square PC (385lm@100mA)



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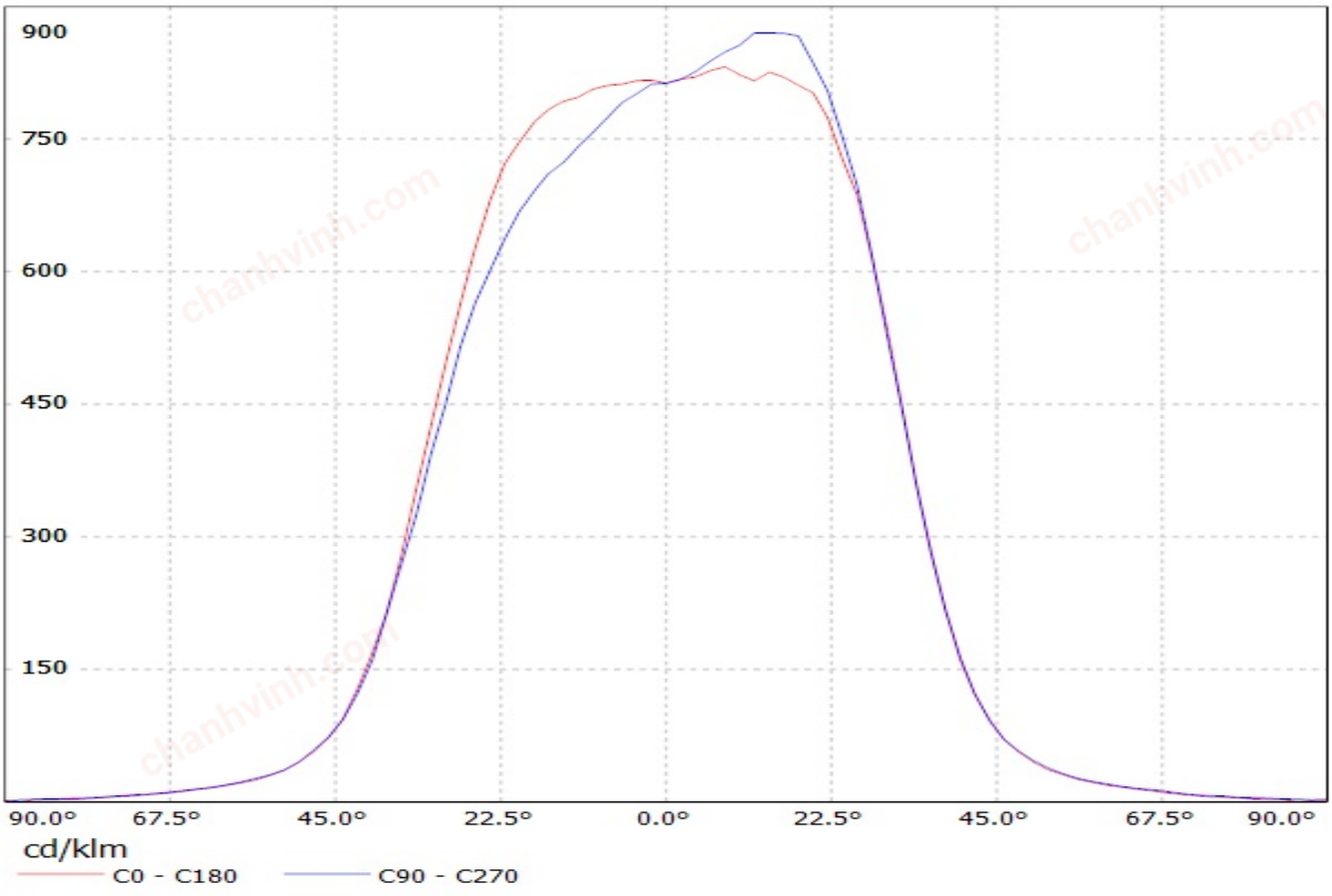
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LH351Z) Eff.89.0%
Lamps: 1 x SAMSUNG_LH351Z_2x2_359.49lm@250mA_P=2.86371W_I=249.8mA



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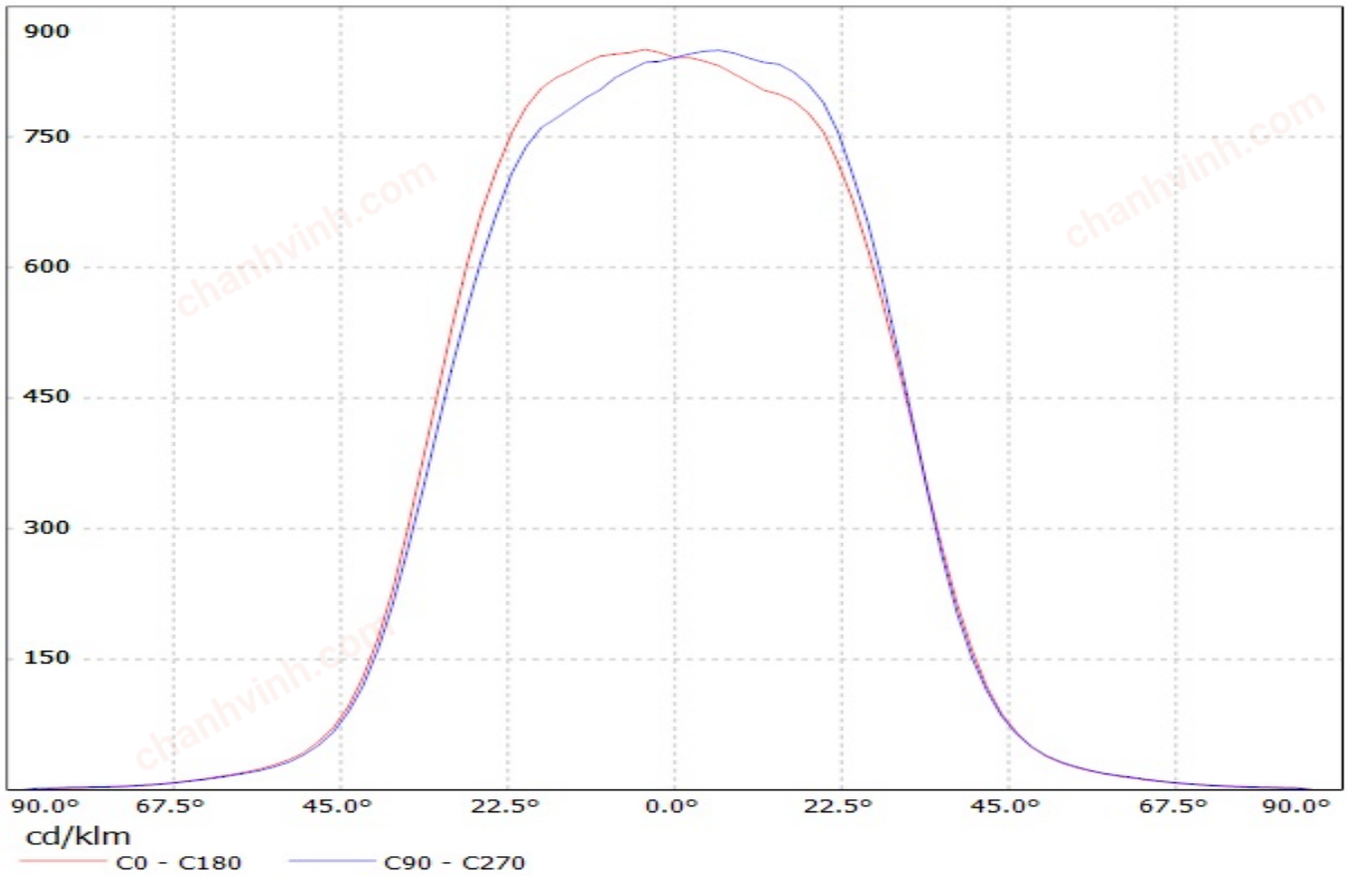
Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XT-E 390lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XT-E 390lm @ 250mA



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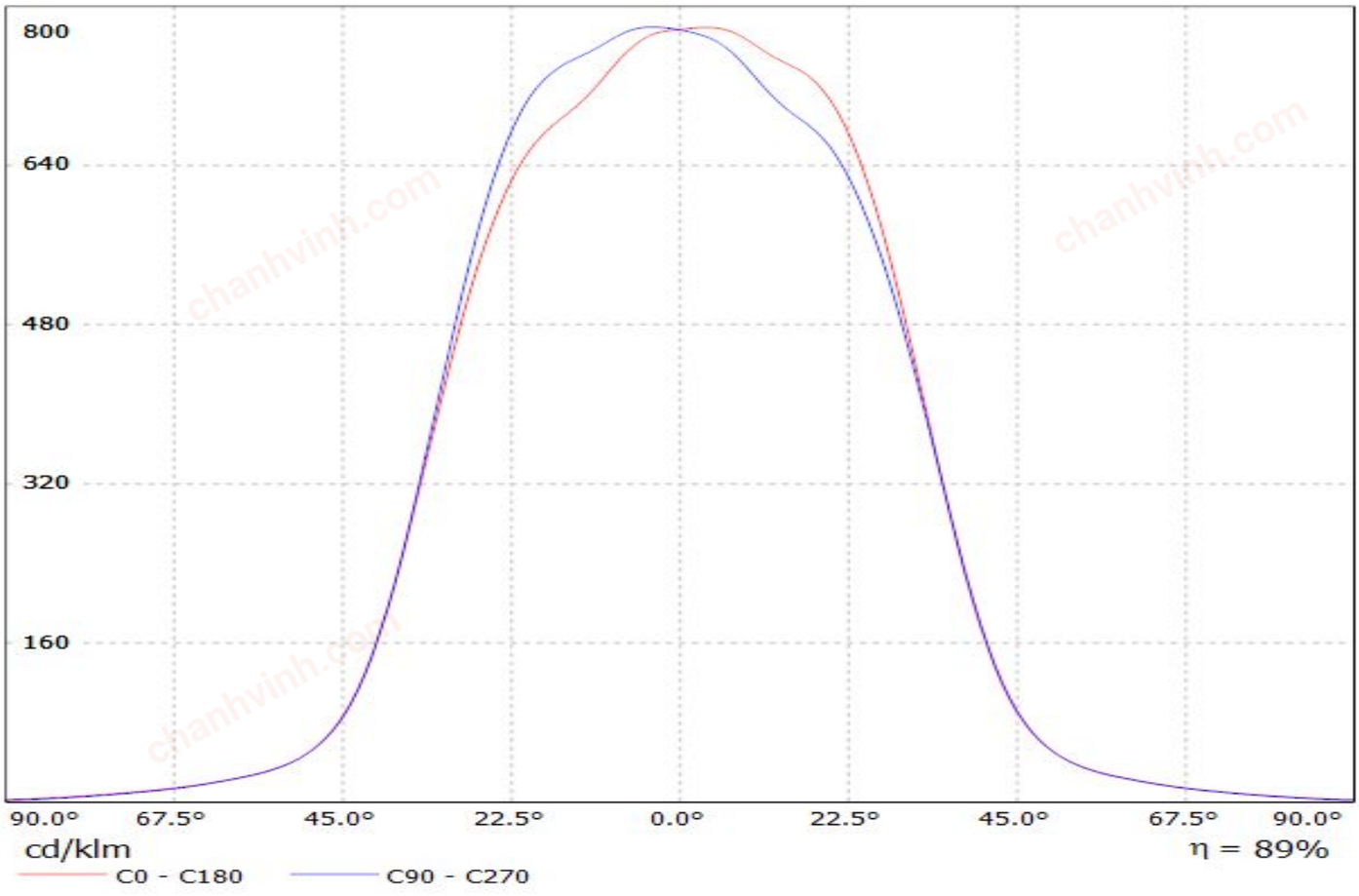
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Luminaire: LEDil Oy C13232_HB-2x2-WW_(Z5M1) Efficiency=90%
Lamps: 1 x Seoul Z5M1 (SZ5-M1-WN-C8) 379lm @ 250mA CCT=4600K P=2.9W I=250mA



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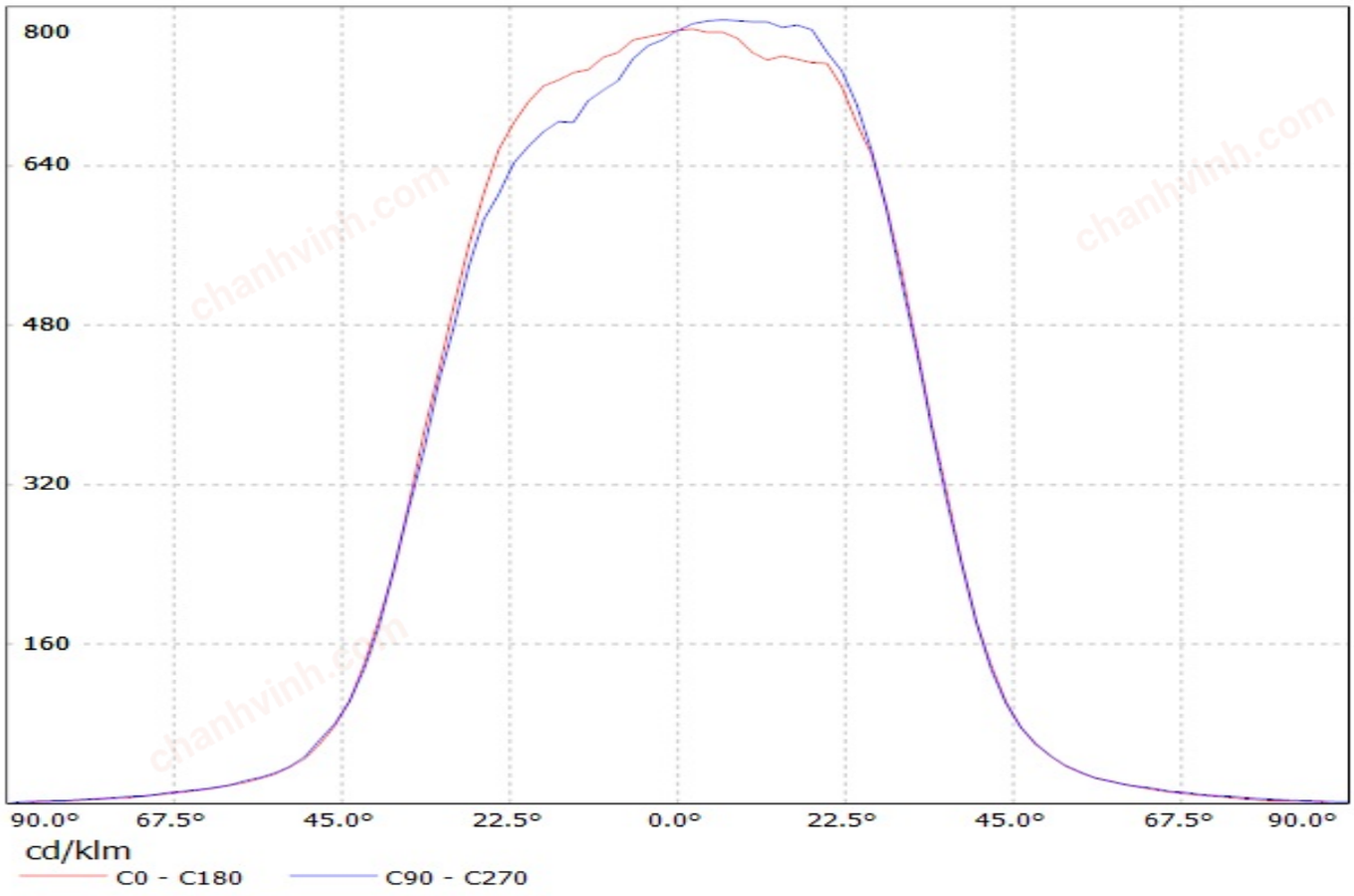
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LH351B) Eff.88.6%
Lamps: 1 x SAMSUNG_LH351B_2x2_430.715lm@250mA_P=2.84311W_I=249.9mA



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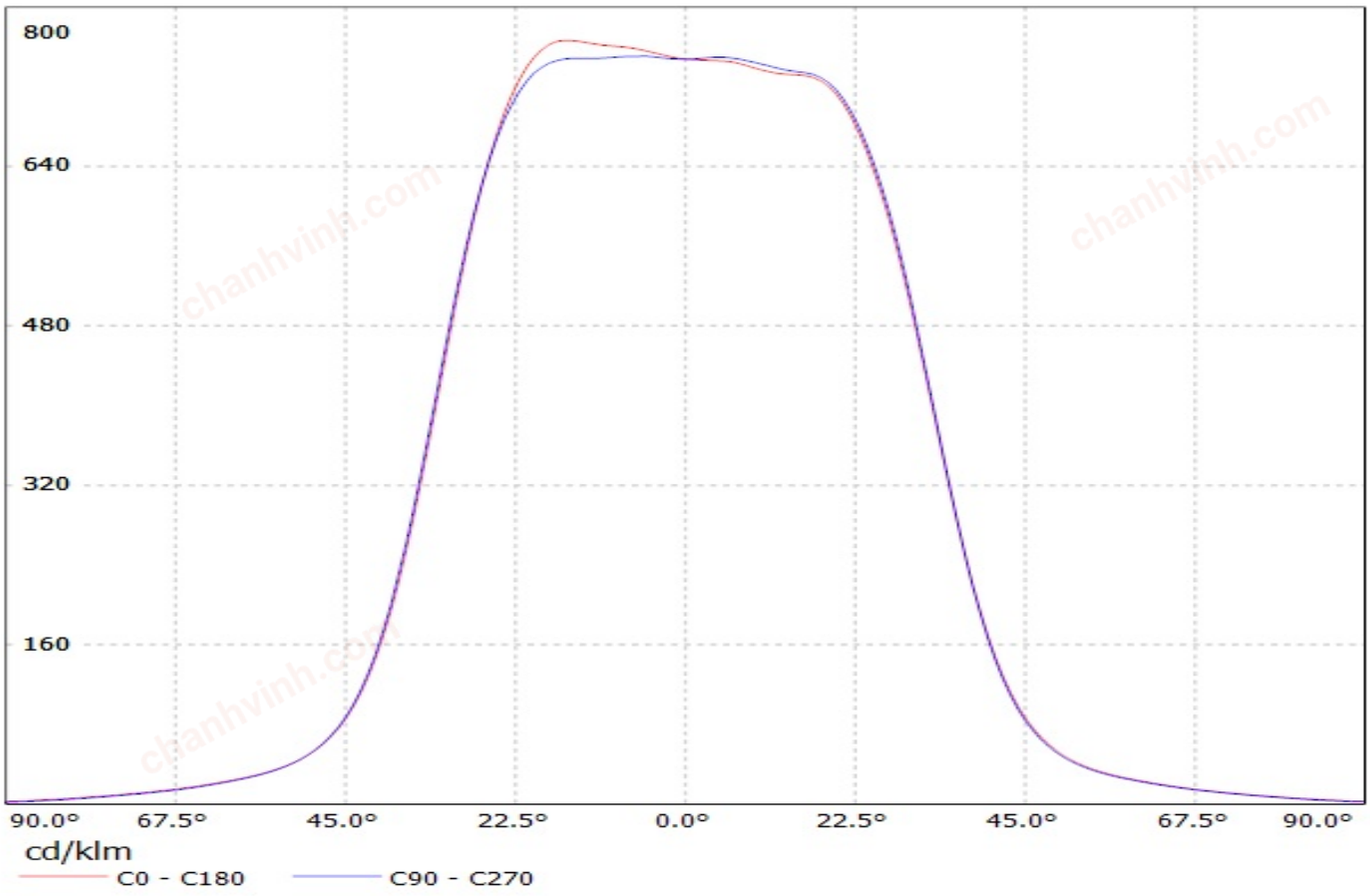
Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Nichia NVS19B 306lm @ 250mA) Efficiency=91%
Lamps: 1 x Nichia NVS19B 306lm @ 250mA



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Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LUXEON_Q) Eff.90.8%
Lamps: 1 x LUXEON_Q_2x2_(LHQ-3080)_298.363lm@250mA_P=2.87385W_I=249.9mA

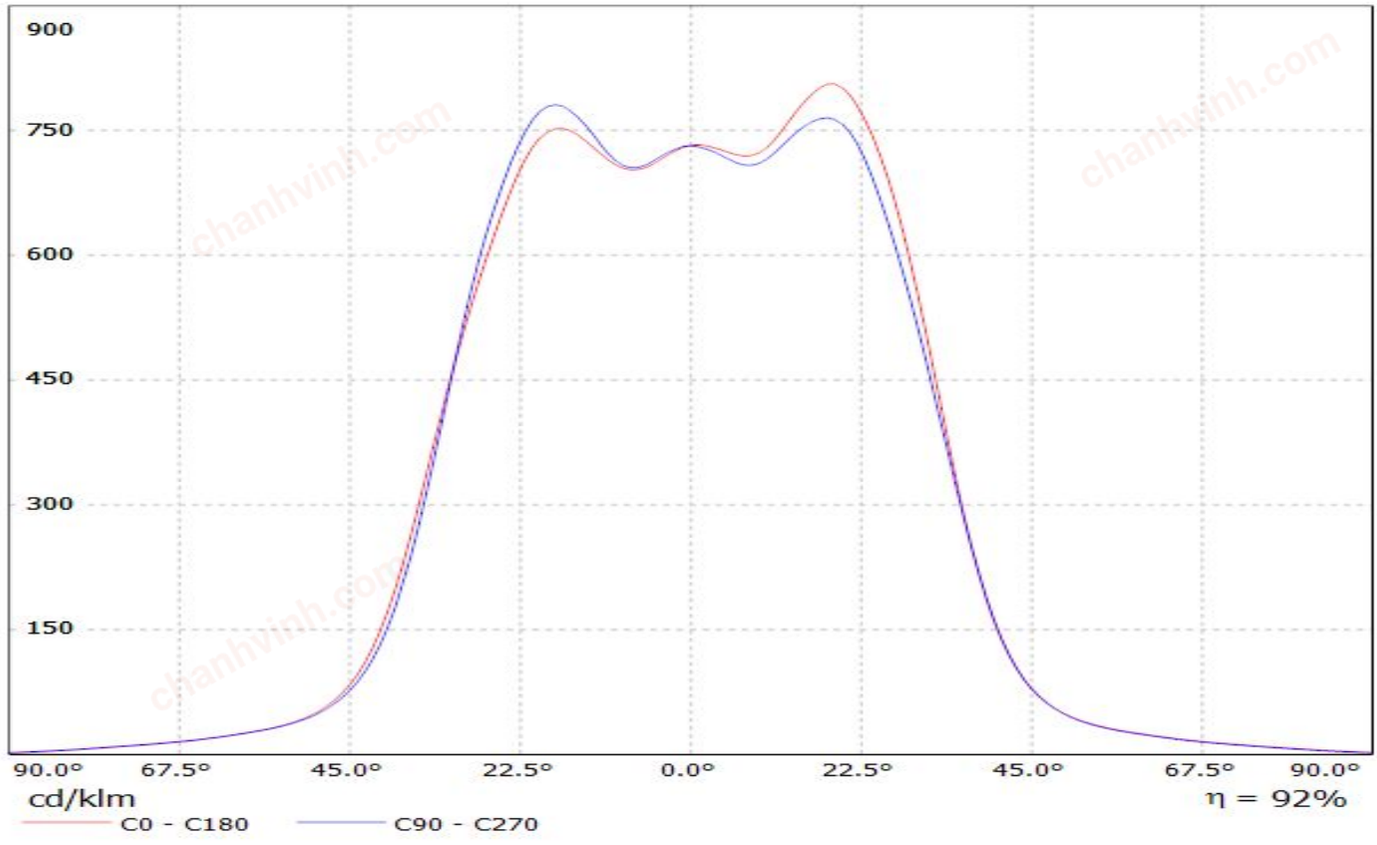


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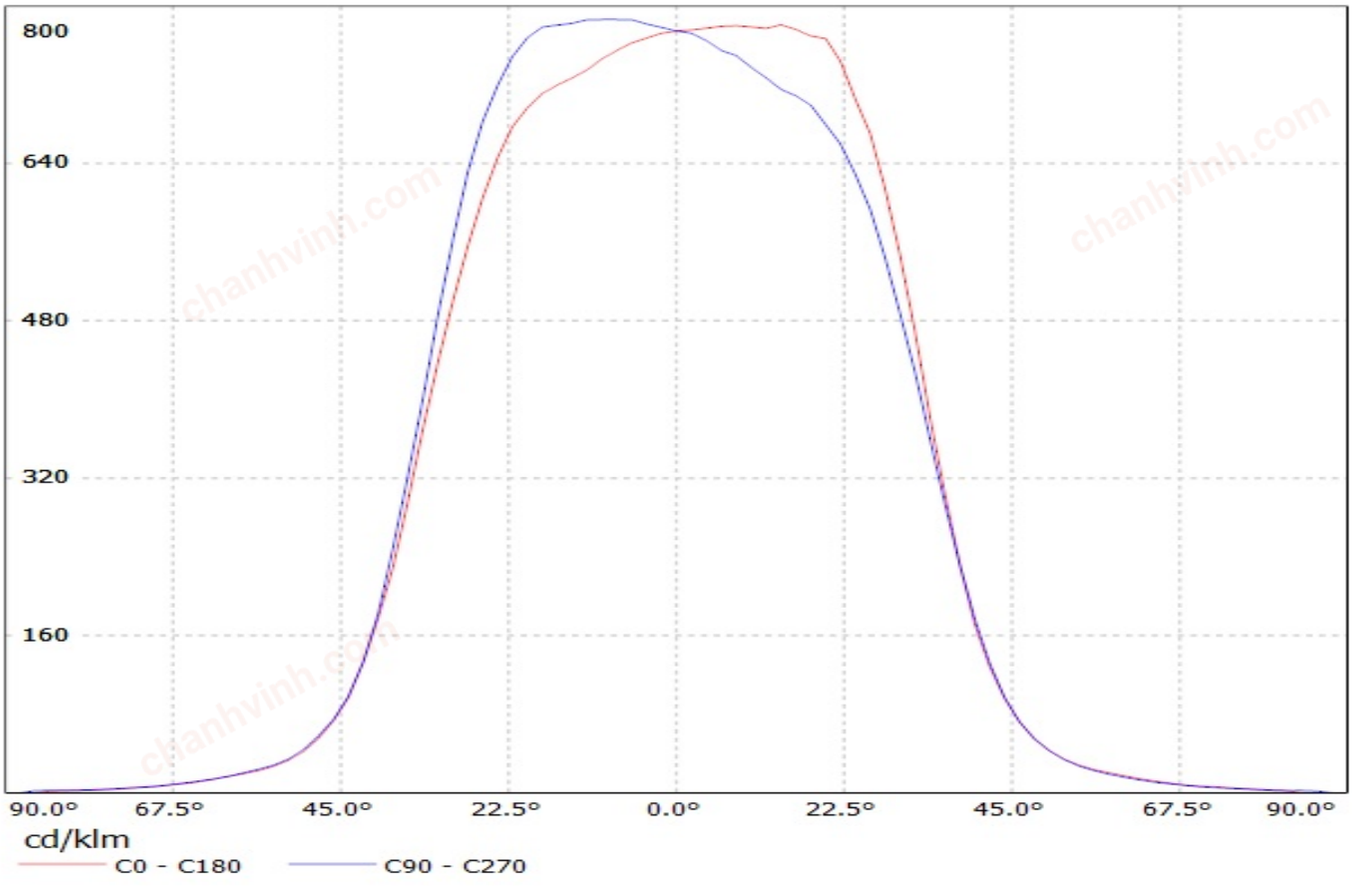
LEDiL Oy C13232_HB-2x2-WW_(Samsung_3535) Eff.92.0% / LDC (Linear)

Luminaire: LEDiL Oy C13232_HB-2x2-WW_(Samsung_3535) Eff.92.0%
Lamps: 1 x Samsung_3535_(LH35A1) (333lm@250mA)



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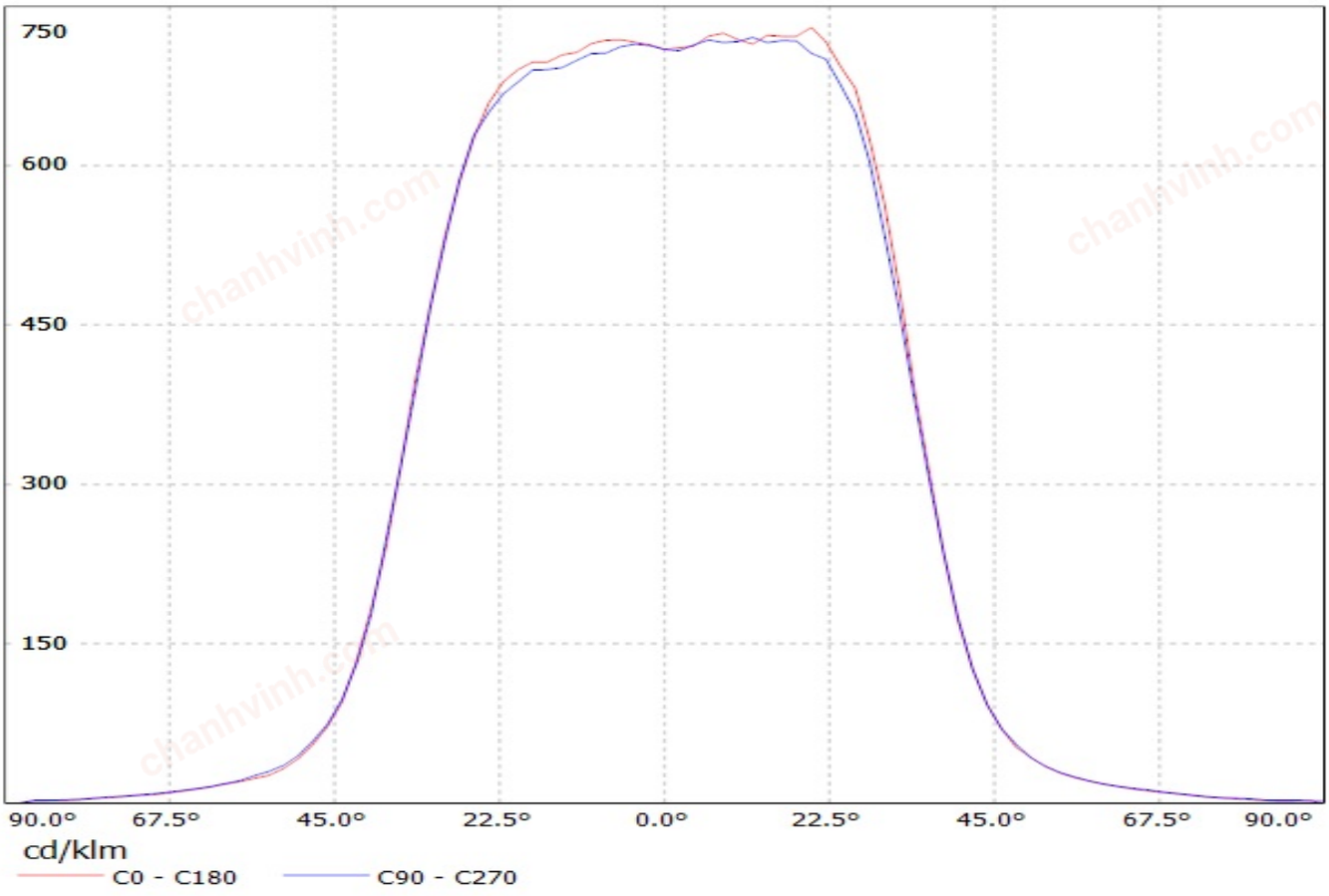
Luminaire: Ledil Oy C13232_HB-2x2-WW_(3535_Ceramic_gen2) Efficiency=89%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA



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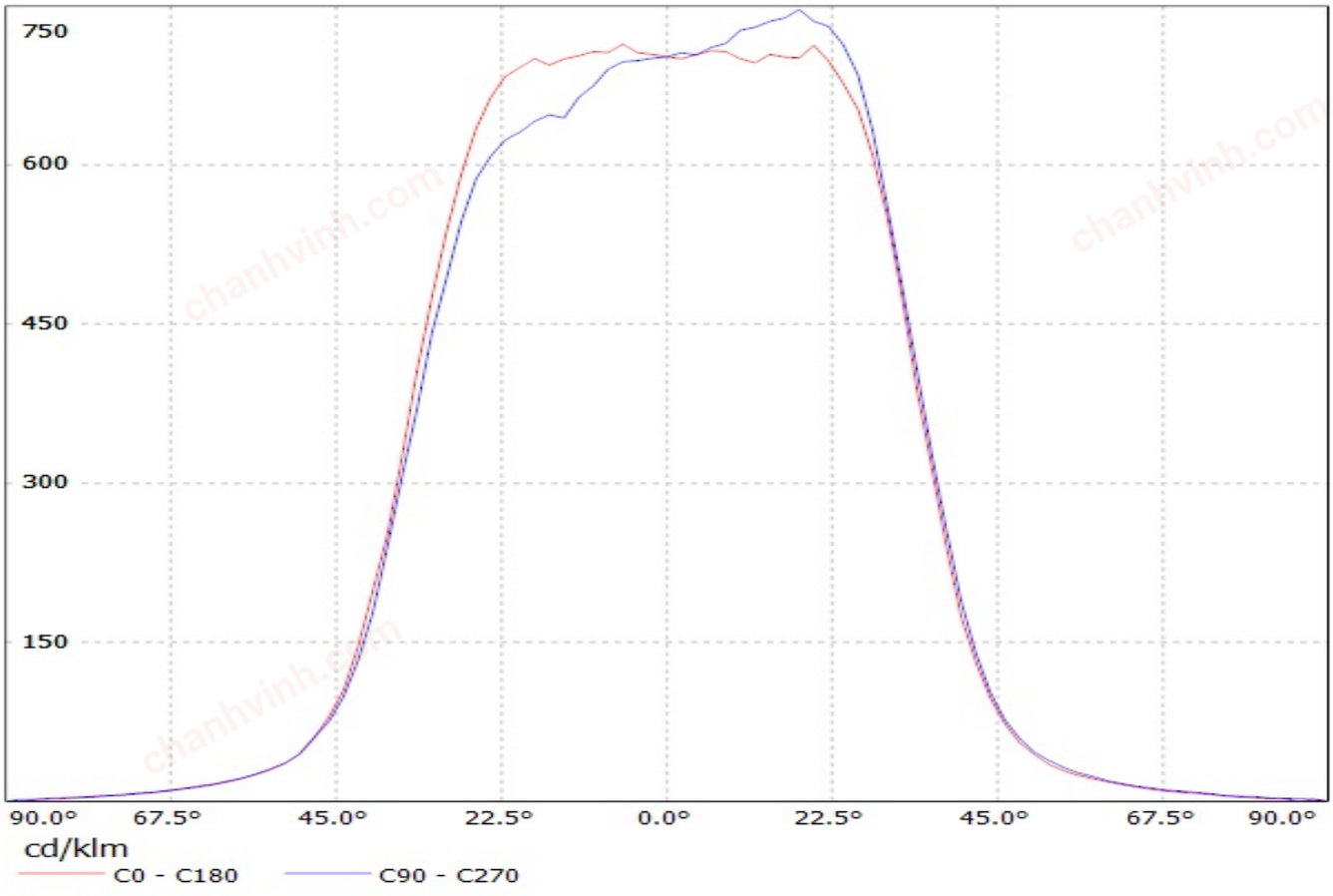
Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XP-G2 420lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XP-G2 420lm @ 250mA



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Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XP-G 257lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XP-G 257lm @ 250mA

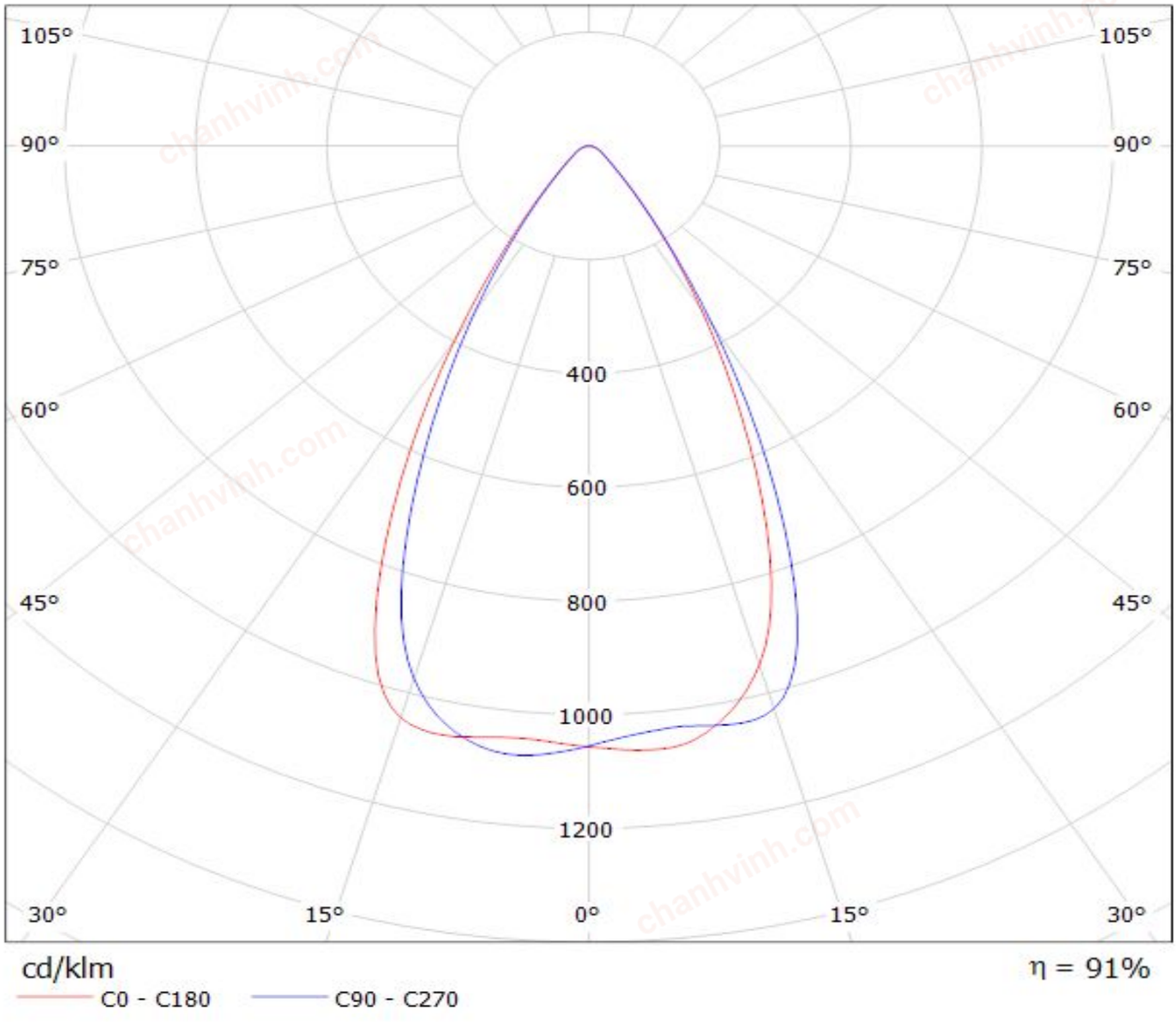


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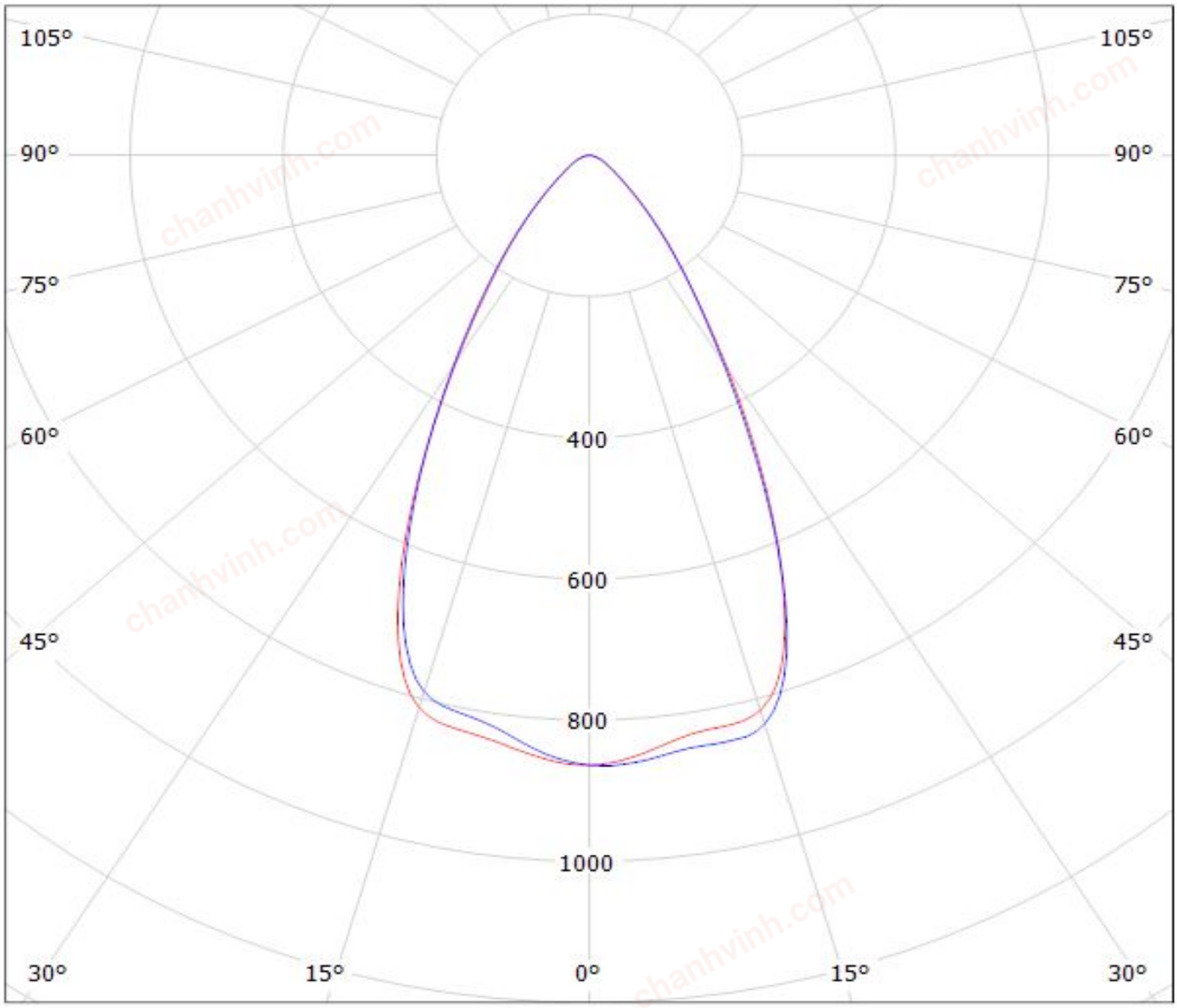
LEDiL Oy C13232_HB-2x2-WW_(SSL80) Eff.91.5% / LDC (Polar)

Luminaire: LEDiL Oy C13232_HB-2x2-WW_(SSL80) Eff.91.5%
Lamps: 1 x Osram Oslon SSL80 (308lm@250mA)



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Luminaire: LEDiL Oy C13232_HB-2X2-WW_(WICOP2_Z8Y15)
Lamps: 1 x SEOUL_WICOP2_Z8Y15_336.842lm@250mA_P=2.9399W_I=0.250A



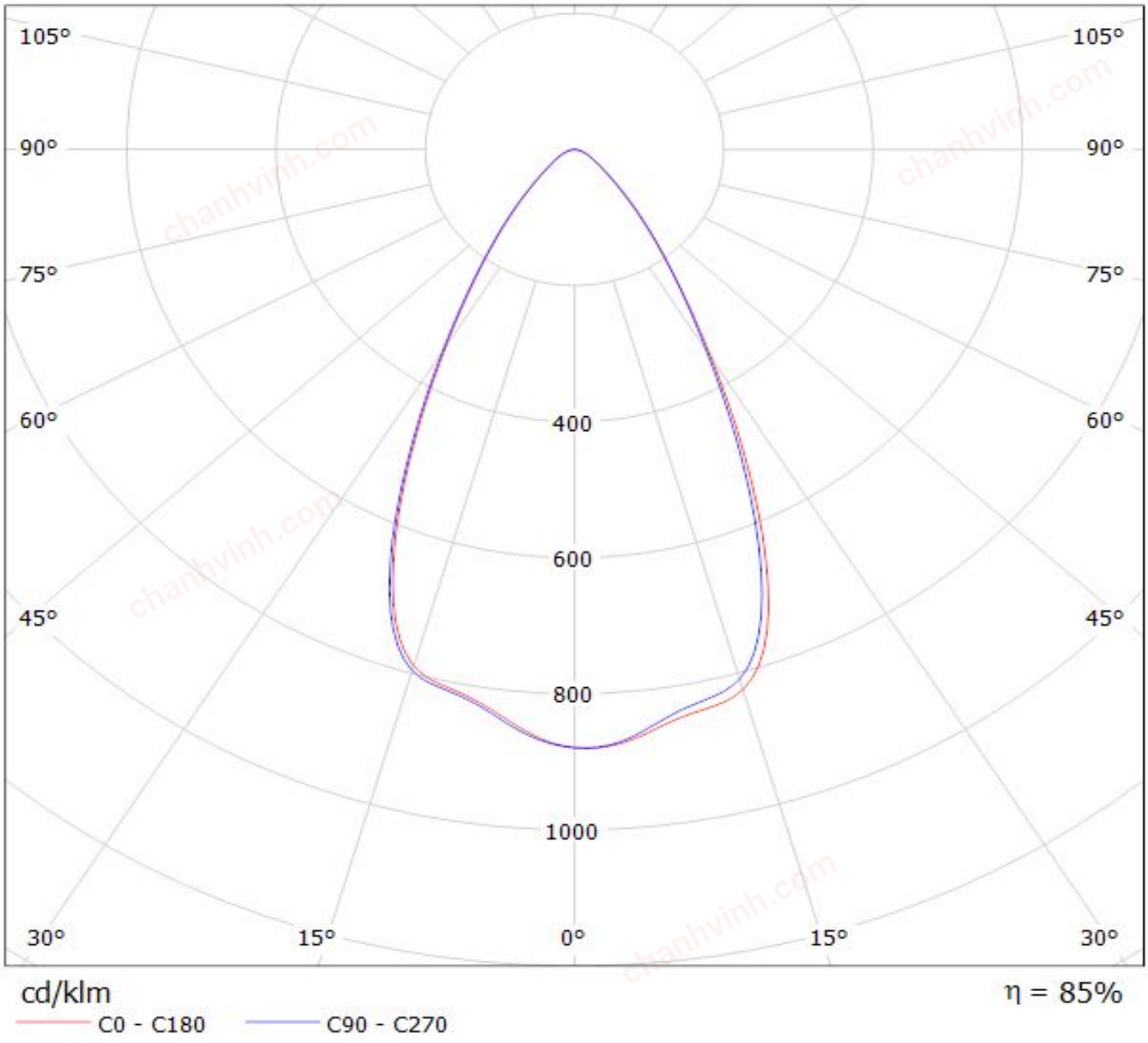
cd/klm

η = 85%

C0 - C180 C90 - C270

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Luminaire: LEDiL Oy C13232_HB-2X2-WW_(WICOP2_Z8Y19)
Lamps: 1 x SEOUL_WICOP2_Z8Y19_450.124lm@250mA_P=2.8579W_I=0.250A



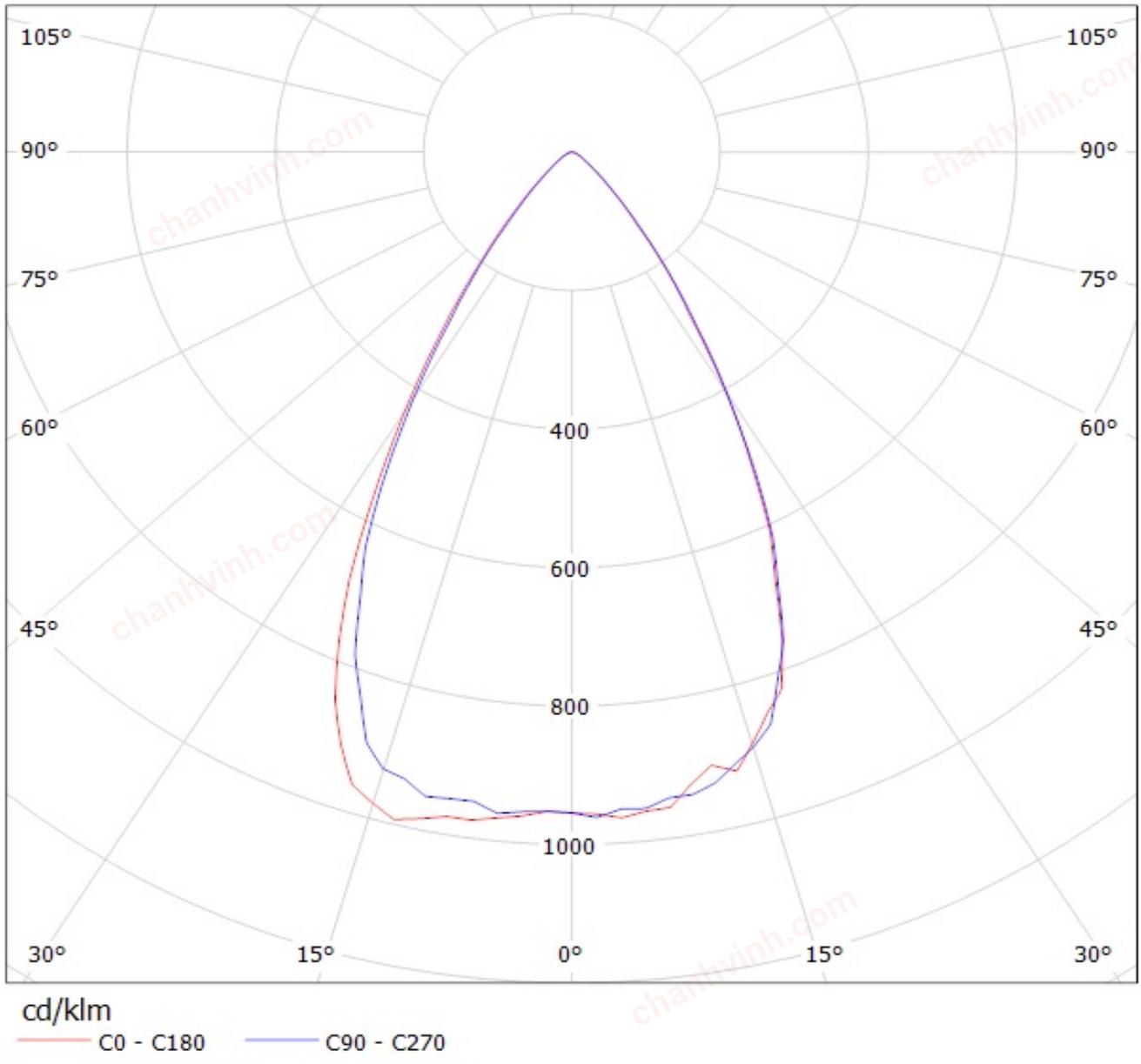
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η = 85%

C0 - C180 C90 - C270

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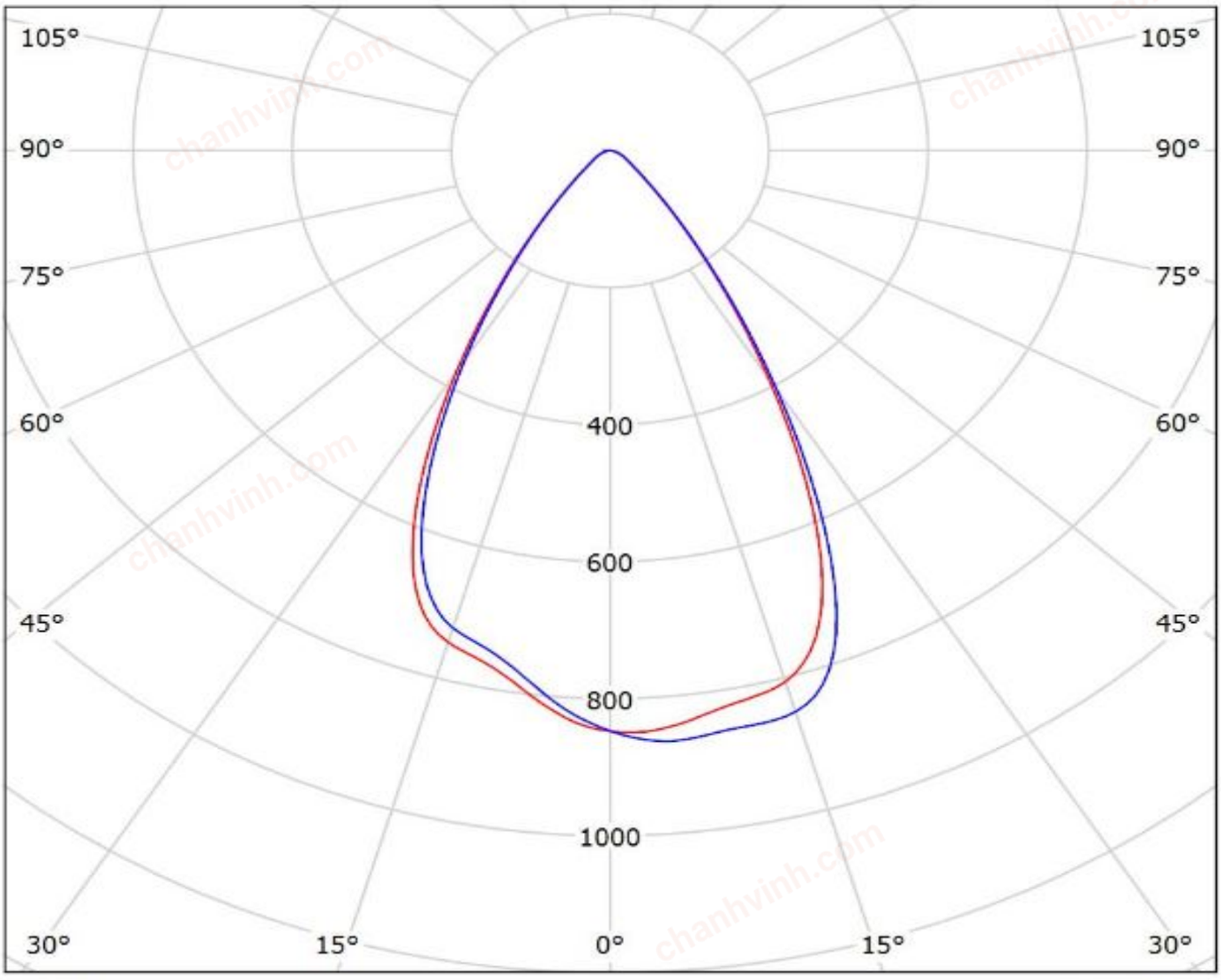
Luminaire: Ledil Oy C13232_HB-2X2-WW_(Luxeon_Z_ES) Efficiency=90%
Lamps: 1 x Luxeon Z ES (LXZ2-3090) 209lm @ 250mA CCT=3000k P=2.8W I=250mA



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Ledil C13232_HB-2X2-WW_(TL1L4) / LDC (Polar)

Luminaire: Ledil C13232_HB-2X2-WW_(TL1L4)
Lamps: 1 x Toshiba_TL1L4_2x2_(TL1L4-DW0)_472.639lm@250mA_CCT=6500K_P=2.9W_I=0.25A



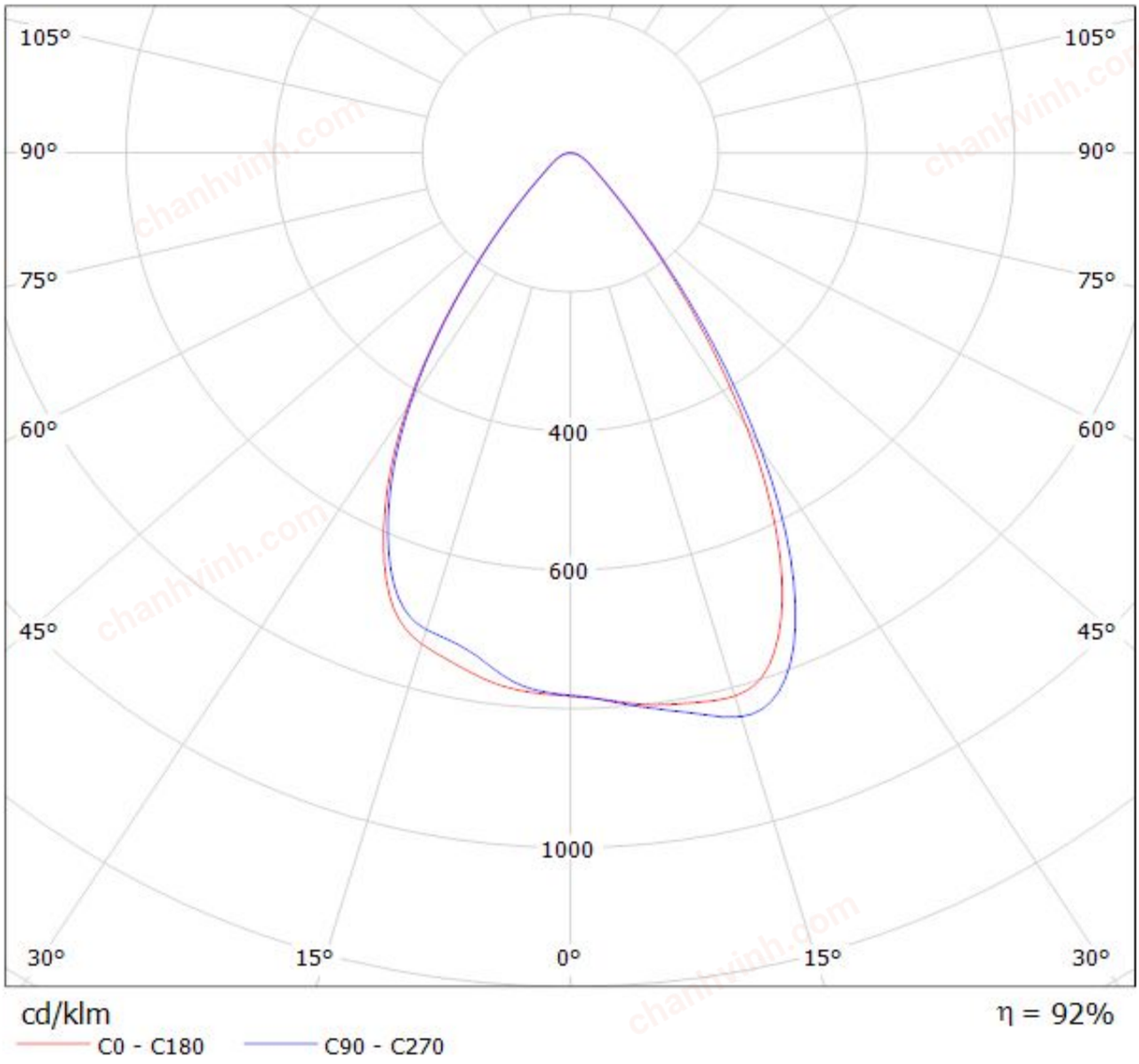
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η = 84%

C0 - C180 C90 - C270

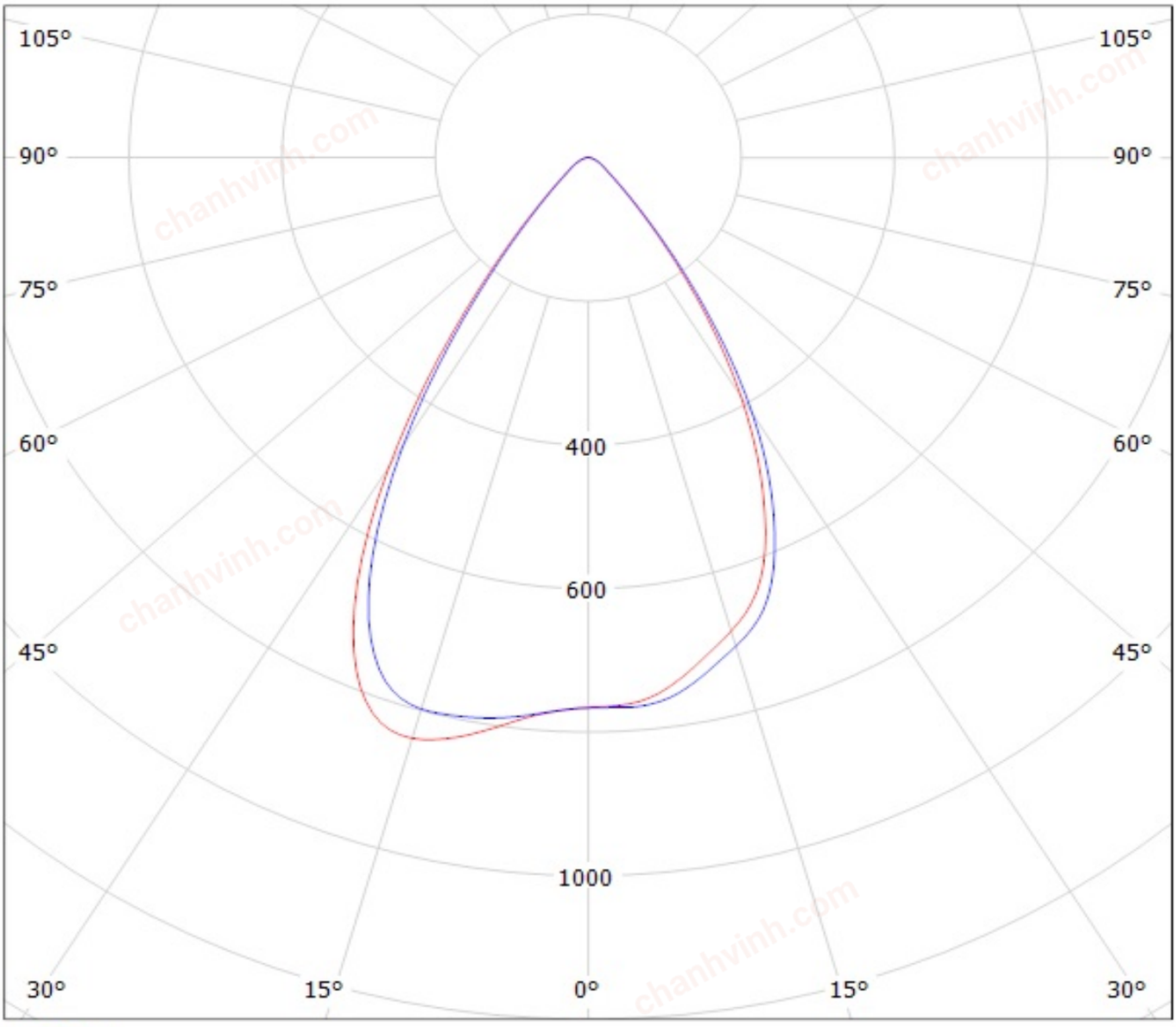
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Luminaire: LEDiL Oy C13232_HB-2x2-WW_(Osram_Square_PC) Eff. 91,6%
Lamps: 1 x Osram Square PC (385lm@100mA)



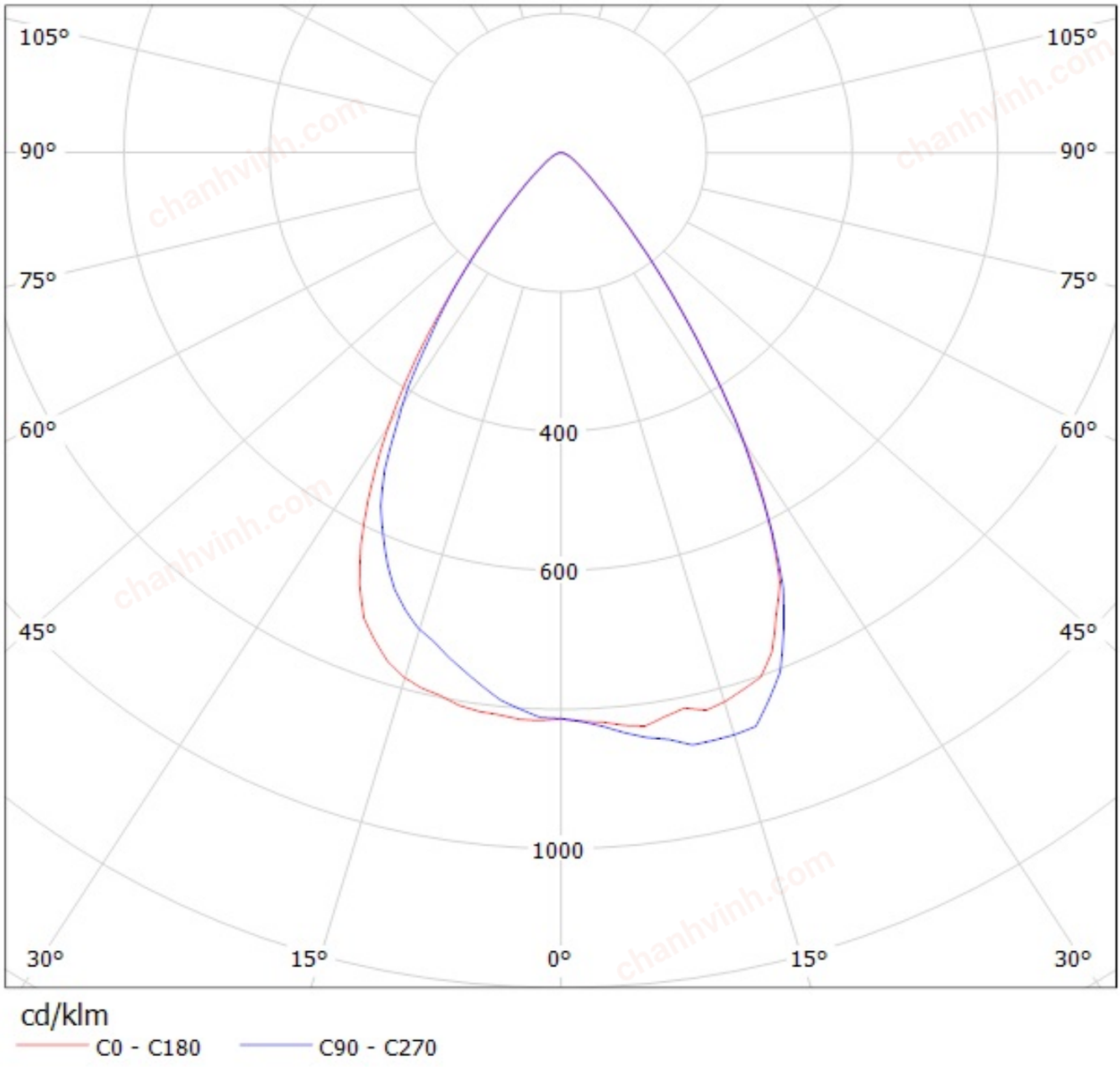
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Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LH351Z) Eff.89.0%
Lamps: 1 x SAMSUNG_LH351Z_2x2_359.49lm@250mA_P=2.86371W_I=249.8mA



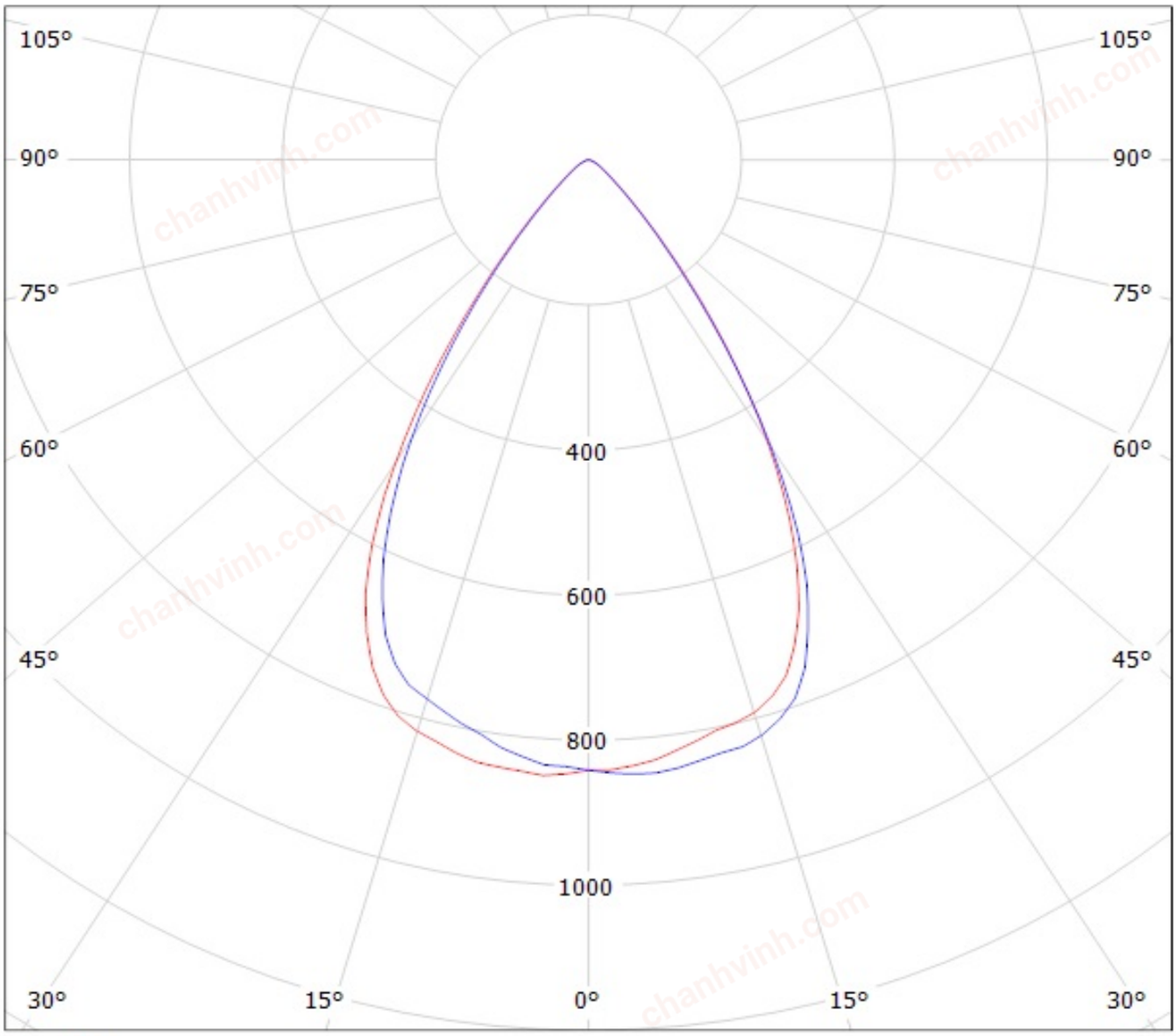
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Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XT-E 390lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XT-E 390lm @ 250mA



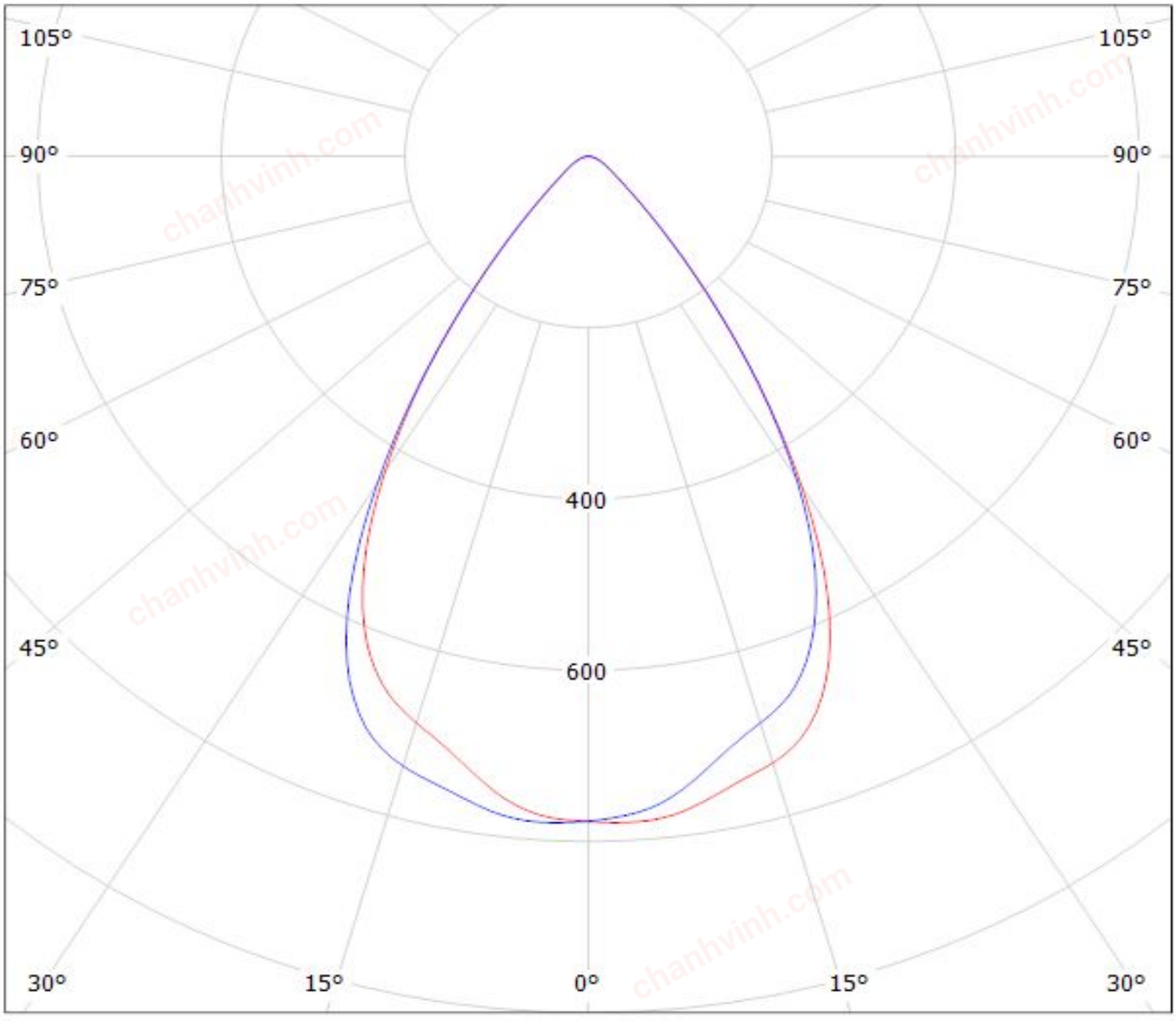
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Luminaire: LEDil Oy C13232_HB-2x2-WW_(Z5M1) Efficiency=90%
Lamps: 1 x Seoul Z5M1 (SZ5-M1-WN-C8) 379lm @ 250mA CCT=4600K P=2.9W I=250mA



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Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LH351B) Eff.88.6%
Lamps: 1 x SAMSUNG_LH351B_2x2_430.715lm@250mA_P=2.84311W_I=249.9mA



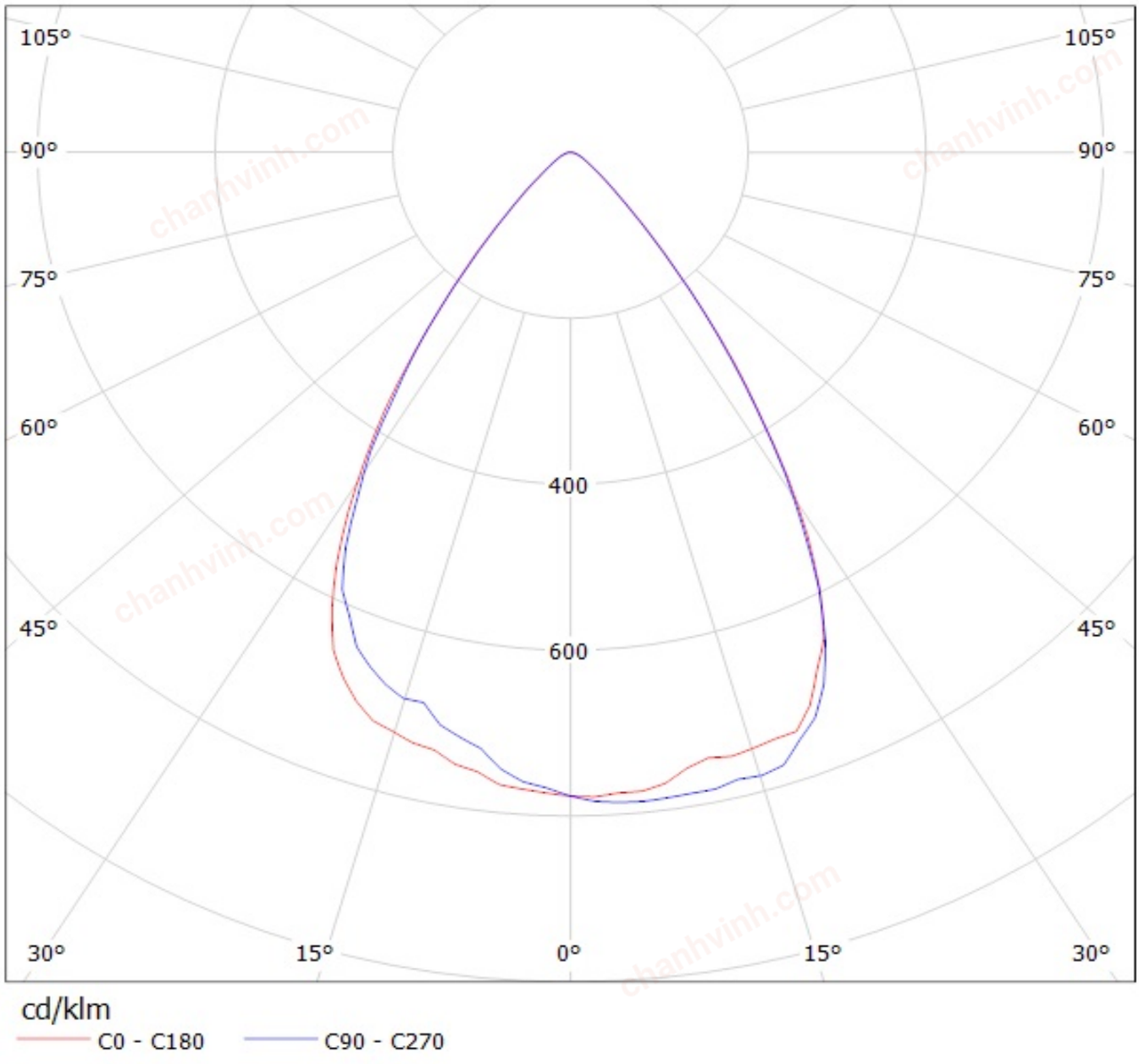
cd/klm

η = 89%

C0 - C180 C90 - C270

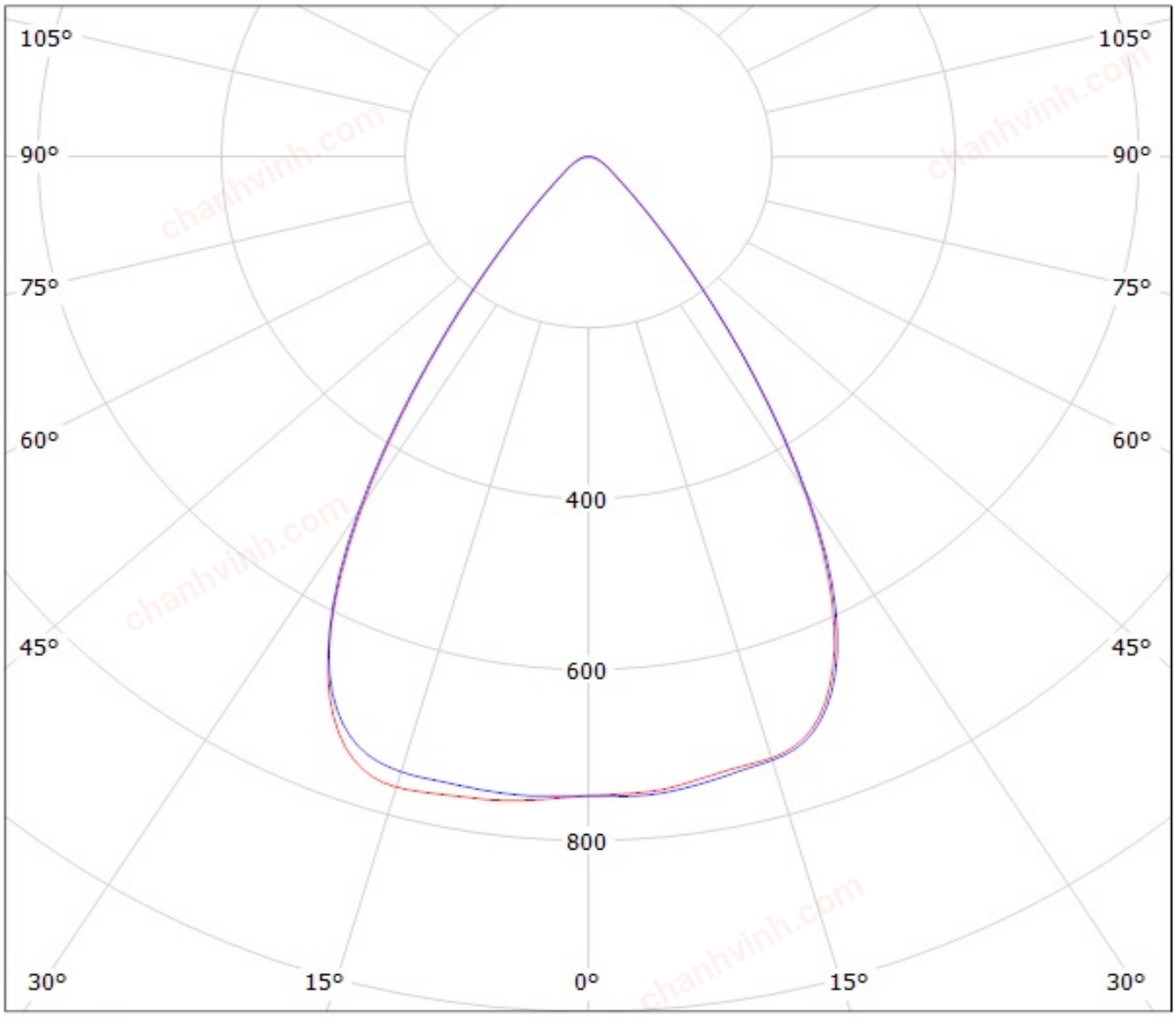
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Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Nichia NVS19B 306lm @ 250mA) Efficiency=91%
Lamps: 1 x Nichia NVS19B 306lm @ 250mA



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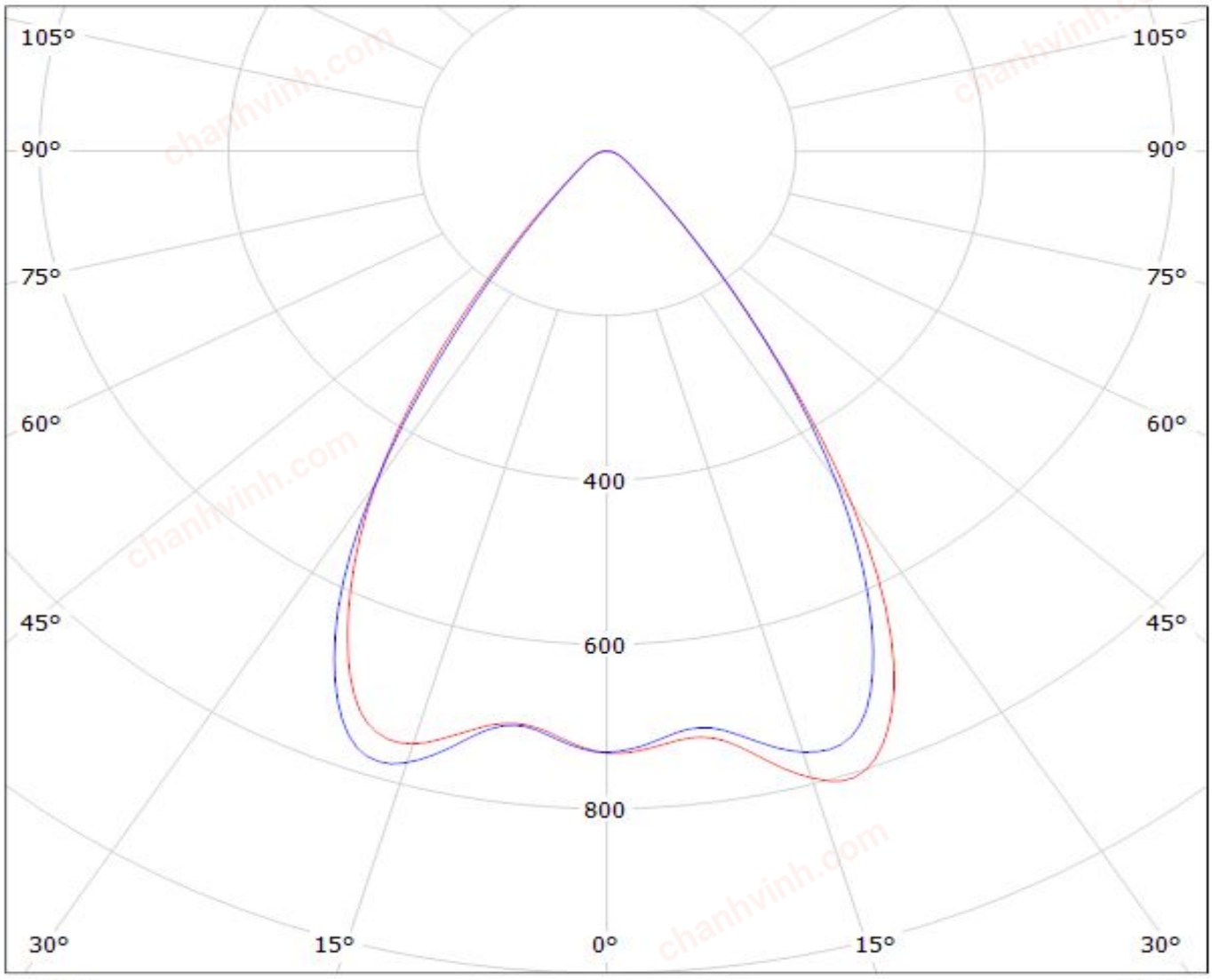
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LUXEON_Q) Eff.90.8%
Lamps: 1 x LUXEON_Q_2x2_(LHQ-3080)_298.363lm@250mA_P=2.87385W_I=249.9mA



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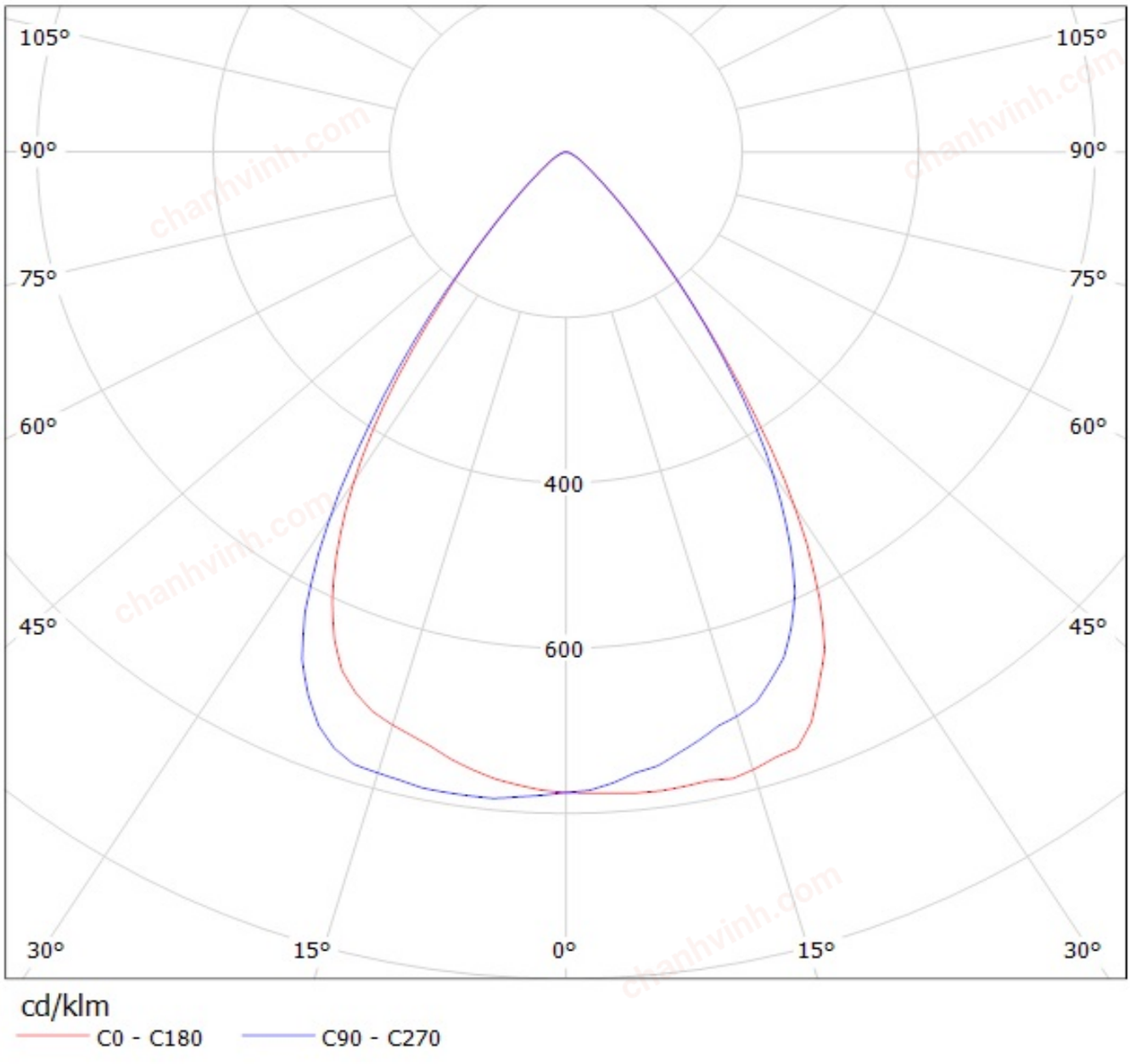
LEDiL Oy C13232_HB-2x2-WW_(Samsung_3535) Eff.92.0% / LDC (Polar)

Luminaire: LEDiL Oy C13232_HB-2x2-WW_(Samsung_3535) Eff.92.0%
Lamps: 1 x Samsung_3535_(LH35A1) (333lm@250mA)



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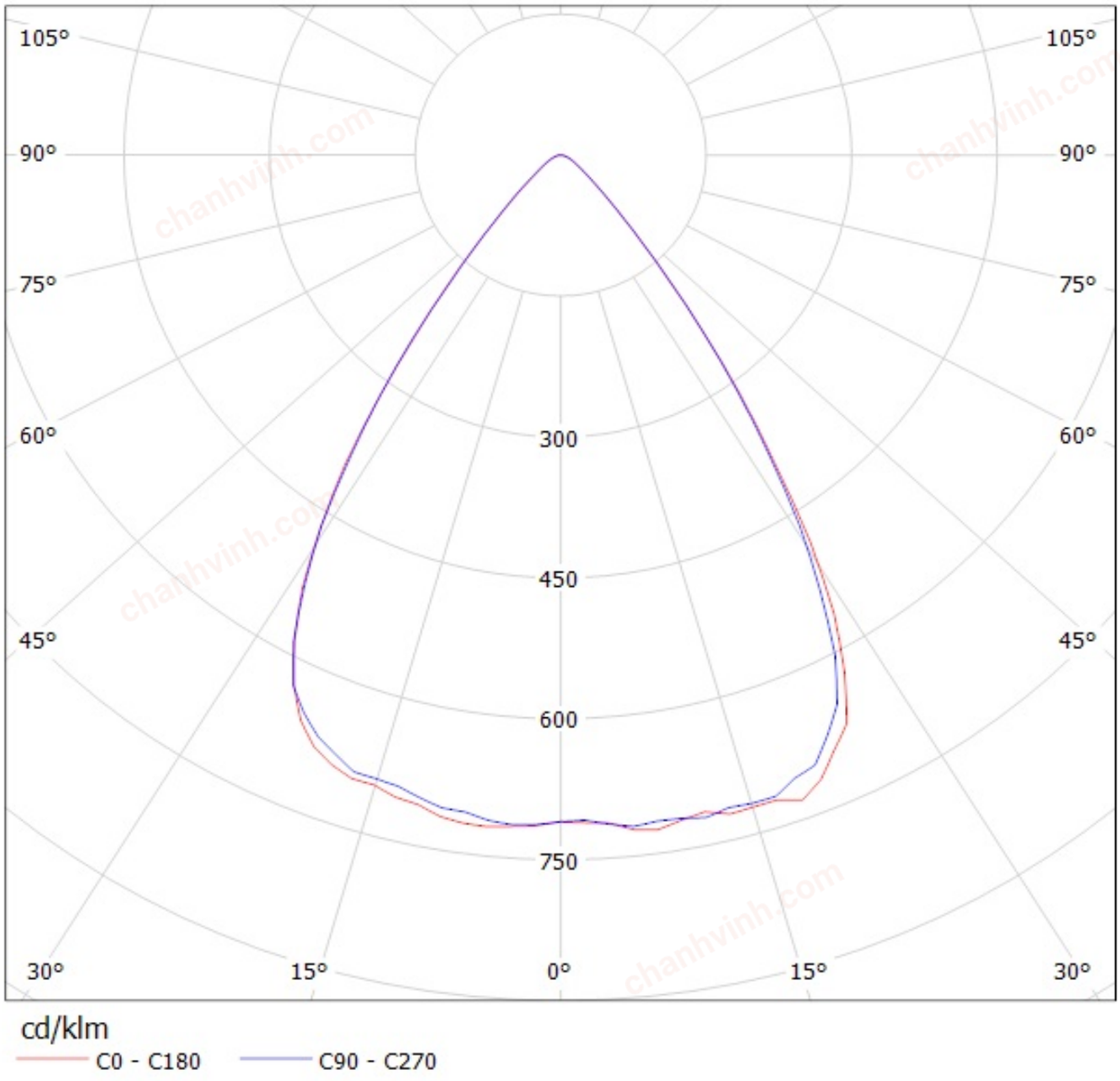
Luminaire: Ledil Oy C13232_HB-2x2-WW_(3535_Ceramic_gen2) Efficiency=89%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA



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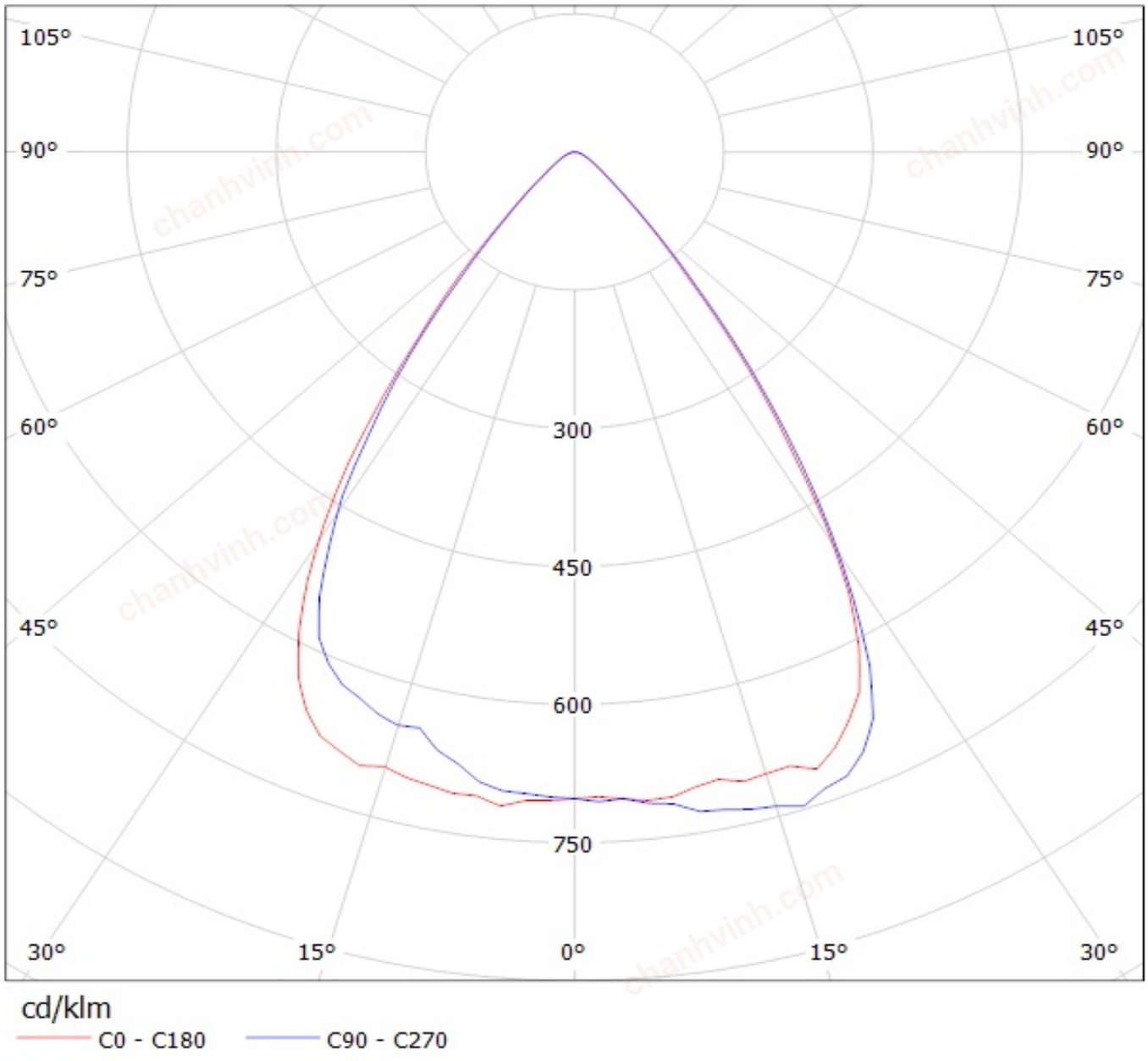
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Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XP-G2 420lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XP-G2 420lm @ 250mA



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Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XP-G 257lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XP-G 257lm @ 250mA



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.

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