PRODUCT DATASHEET
Carmen series
last update 7/2/2017

LEDiL

Product number	CP15916_CARMEN-RS-C		
Family	Carmen	FWHM	12 degrees
Type	Assembly	Efficiency	61 %
LED	VERO10	cd/lm	9.900
Color	Black	Gerber File	Available
Diameter	69.5 mm		
Height	41.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

Product number	CP15774_CARMEN-S-C		
Family	Carmen	FWHM	14 degrees
Type	Assembly	Efficiency	75 %
LED	VERO10	cd/lm	6.900
Color	Black	Gerber File	Available
Diameter	69.5 mm		
Height	41.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

Product number	CP15775_CARMEN-M-C		
Family	Carmen	FWHM	45 degrees
Type	Assembly	Efficiency	74 %
LED	VERO10	cd/lm	1.200
Color	Black	Gerber File	Available
Diameter	69.5 mm		
Height	41.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

Product number	CP15776_CARMEN-W-C		
Family	Carmen	FWHM	55 degrees
Type	Assembly	Efficiency	83 %
LED	VERO10	cd/lm	6.900
Color	Black	Gerber File	Available
Diameter	69.5 mm		
Height	41.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

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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GENERAL INFORMATION

- Product series especially designed & optimized for VERO10 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance. Allows use of high current and temperature conditions.

Please find more information about used material from below:
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20UL94_Yellow%20Card.pdf
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20PLEXIGLAS-Datasheet.pdf

Note! Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.
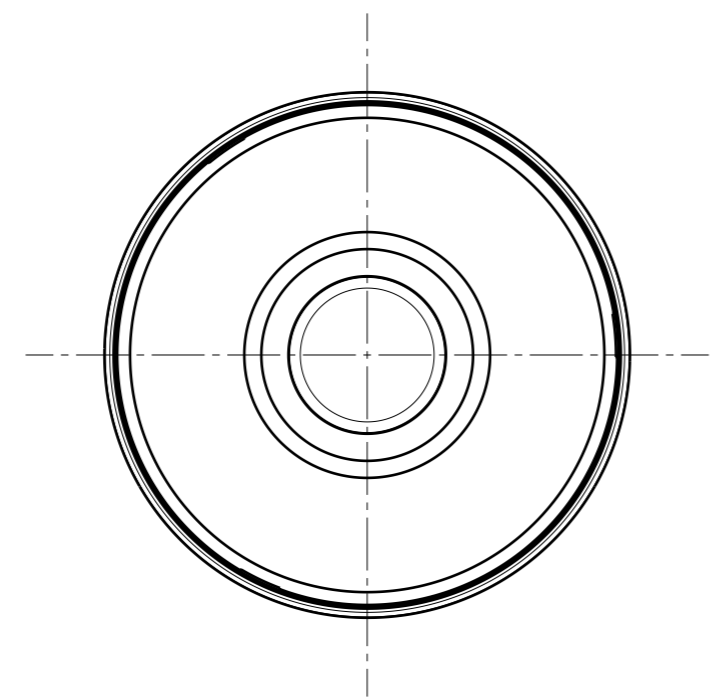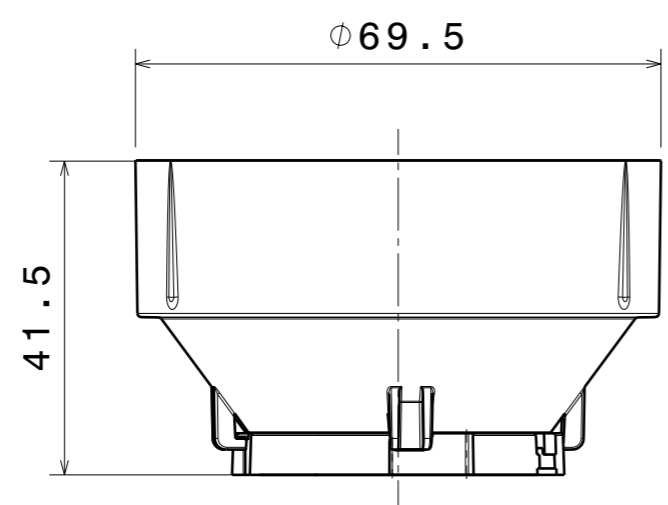
⌀69.5

41.5
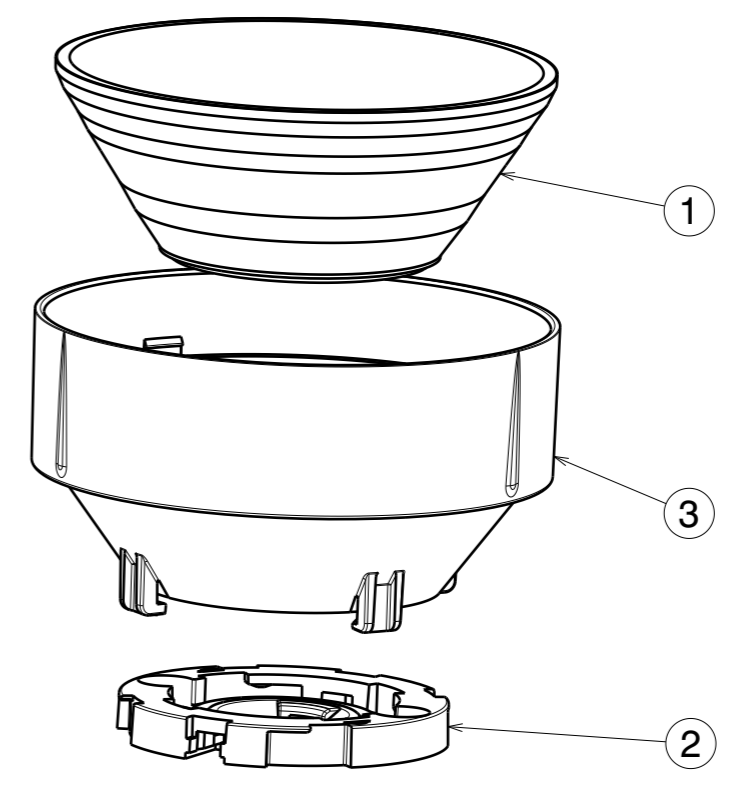
INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	Carmen-Lens		PMMA	Clear
2	Hekla	HEKLA-SOCKET	PBT	White
3	C15732	CARMEN-HLD-C	PC	black

THIRD ANGLE PROJECTION:

DRAWING TITLE

Carmen-B_Datasheet

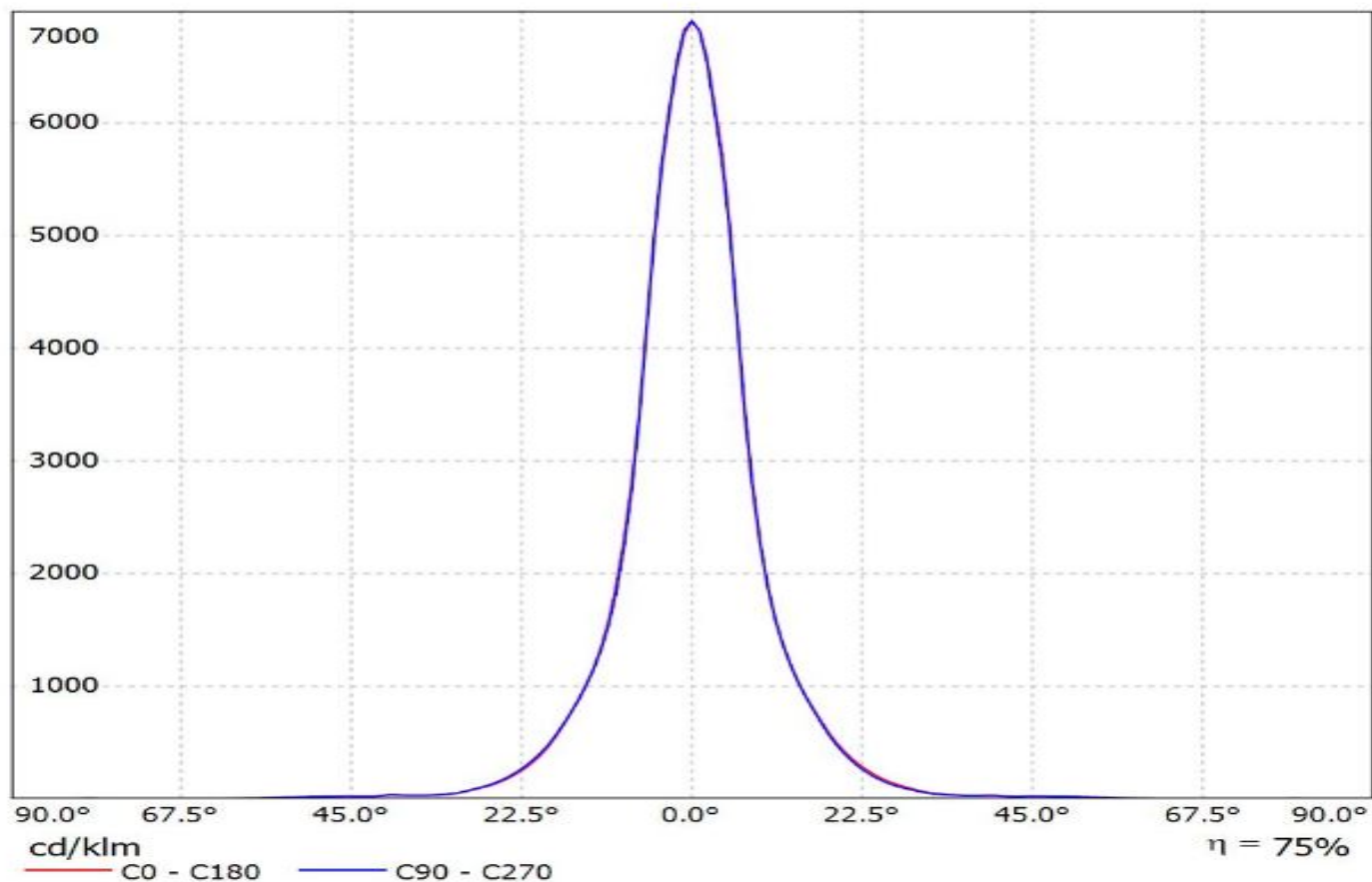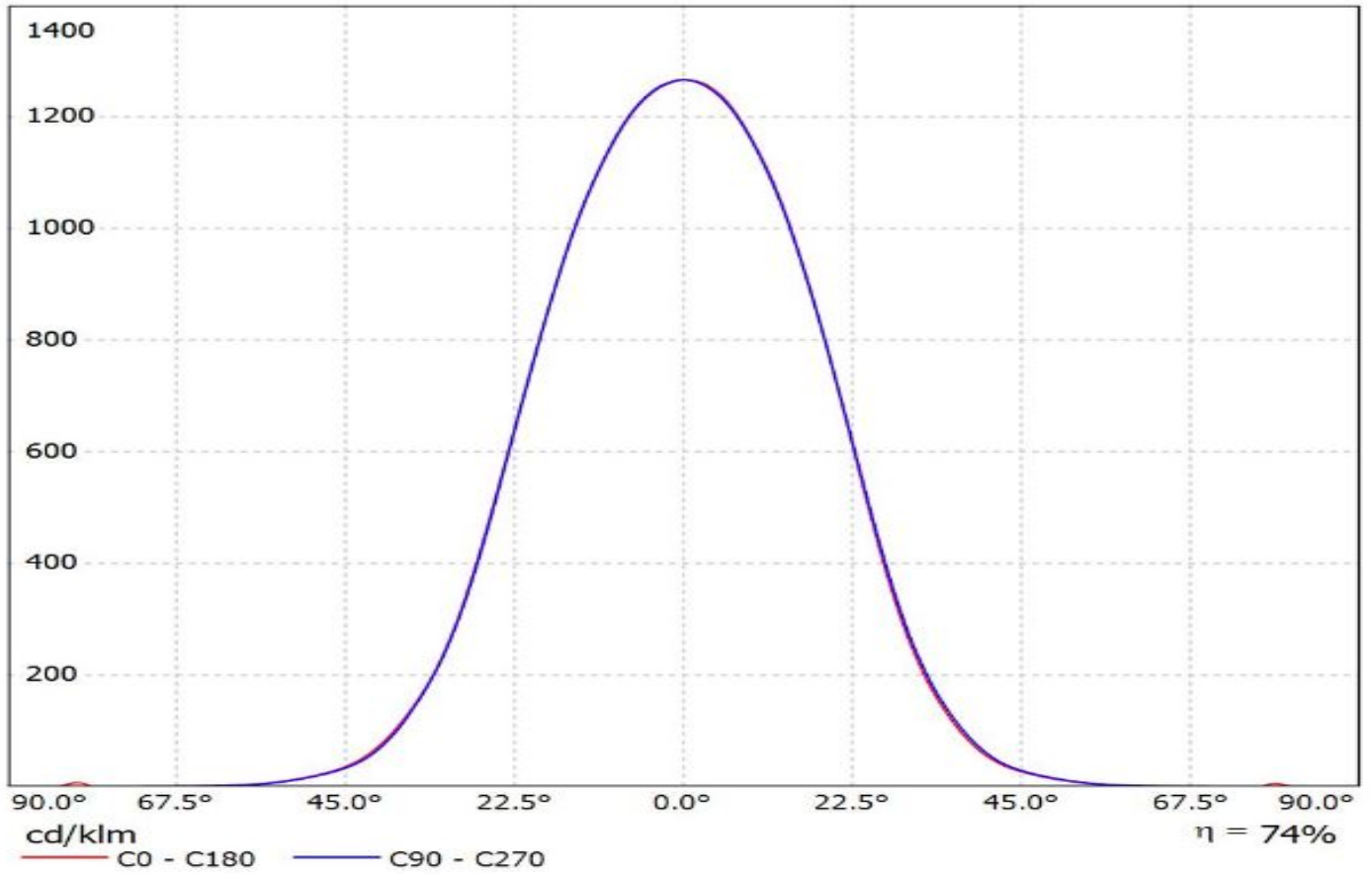| SIZE	PART NUMBER			
A3				
SCALE 1:1	WEIGHT			SHEET 1/1

Luminaire: LEDiL Oy CP15916_CARMEN-RS-C_(VERO10+F15616)
Lamps: 1 x Bridgelux_VERO10_(30-E1000B-Y2)_+F15616_HEKLA-SOCKET-
F_820.387lm@250mA_CCT=3000K_P=6.48806W_I=0.25A

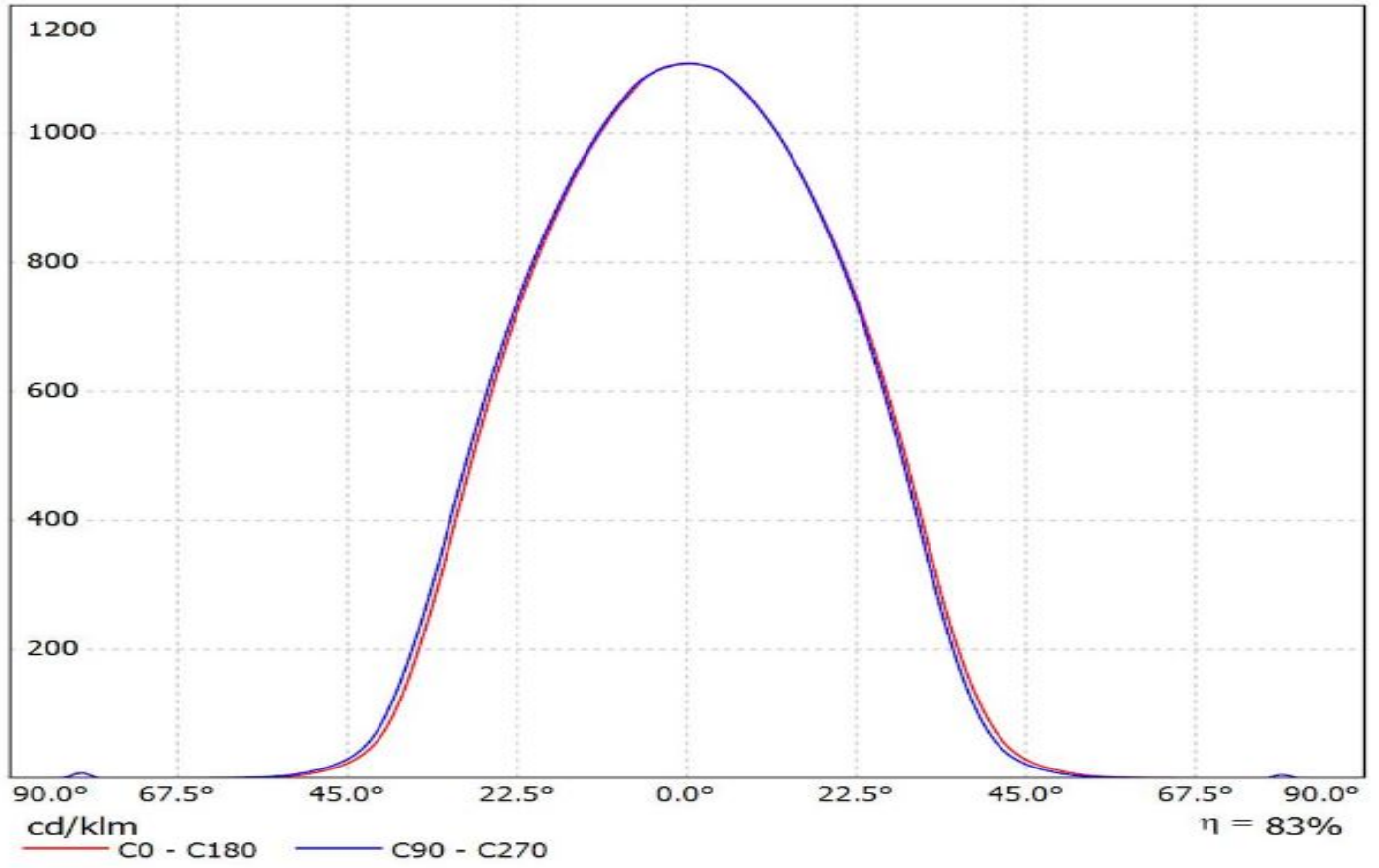cd/klm

η = 61%

C0 - C180   C90 - C270

Luminaire: LEDiL Oy CP15774_CARMEN-S-C_(VERO10+F15616)
Lamps: 1 x Bridgelux_VERO10_(30-E1000B-Y2)_+F15616_HEKLA-SOCKET-
F_820.387lm@250mA_CCT=3000K_P=6.48806W_I=0.25A

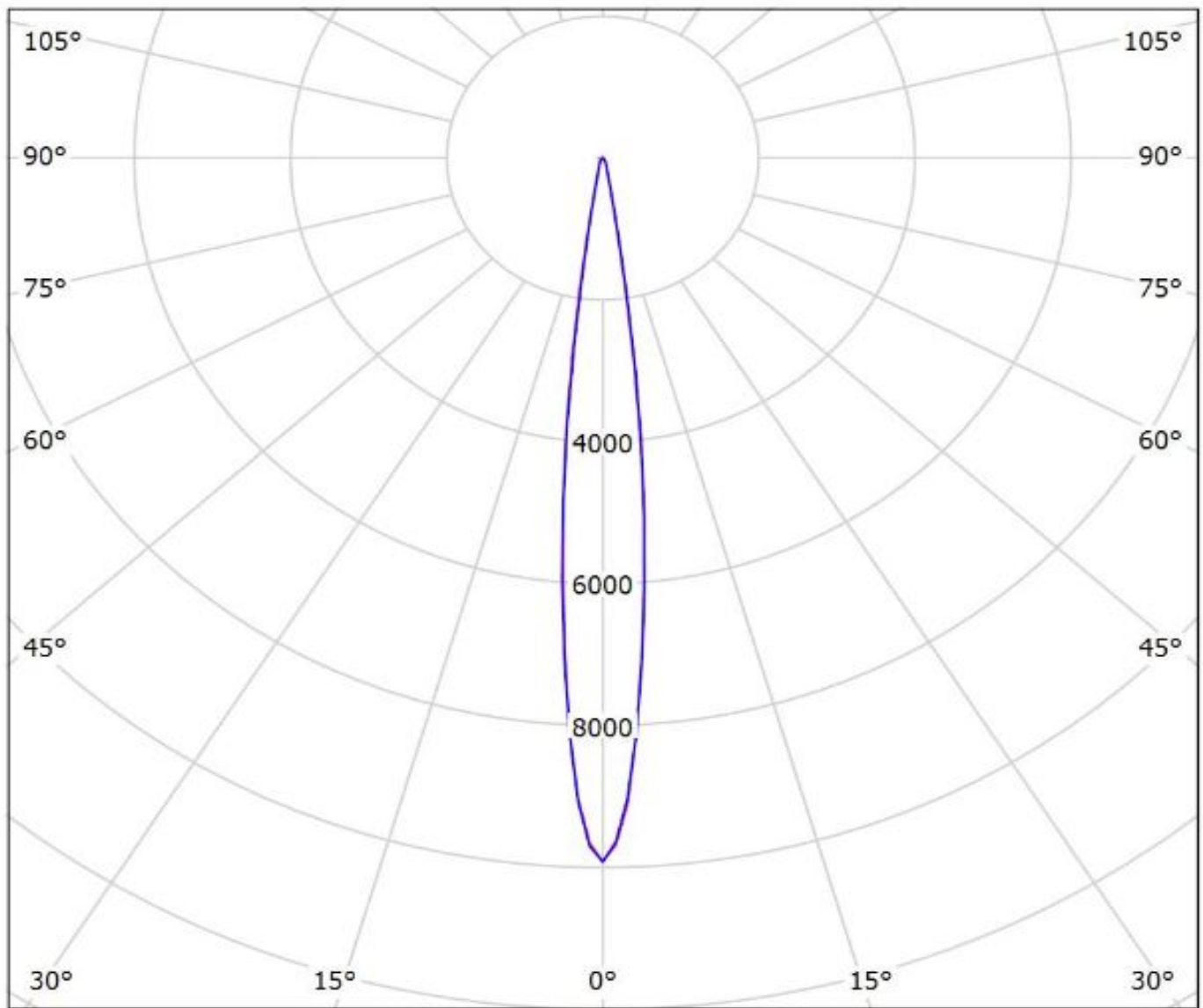|	
cd/klm	η = 75%
—— C0 - C180	—— C90 - C270

Luminaire: LEDiL Oy CP15775_CARMEN-M-C_(VERO10+F15616)
Lamps: 1 x Bridgelux_VERO10_(30-E1000B-Y2)_+F15616_HEKLA-SOCKET-
F_820.387lm@250mA_CCT=3000K_P=6.48806W_I=0.25A

cd/klm

η = 74%

—— C0 - C180   —— C90 - C270

Luminaire: LEDiL Oy CP15776_CARMEN-W-C_(VERO10+F15616)
Lamps: 1 x Bridgelux_VERO10_(30-E1000B-Y2)_+F15616_HEKLA-SOCKET-
F_820.387lm@250mA_CCT=3000K_P=6.48806W_I=0.25A
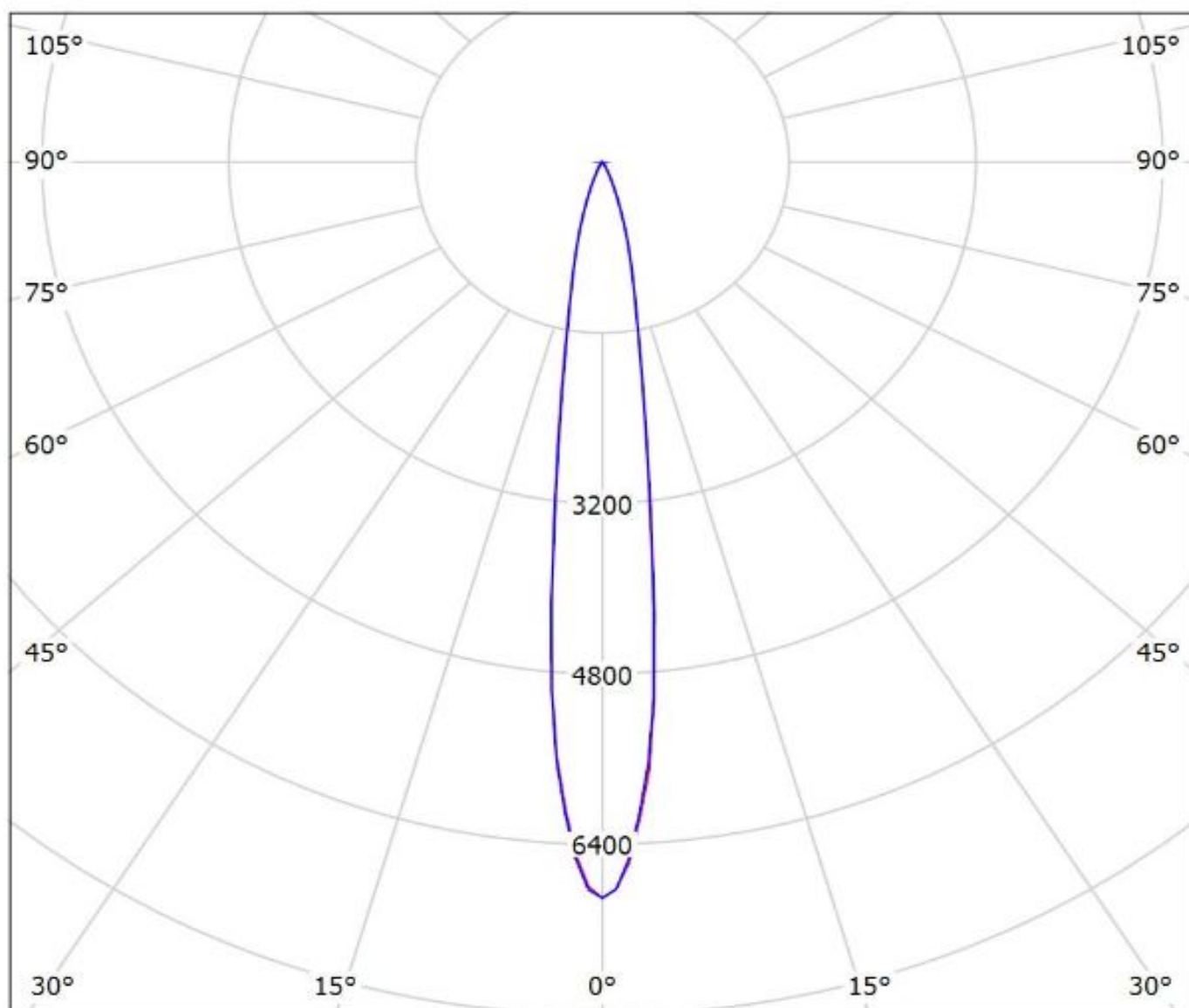

cd/klm

η = 83%

C0 - C180   C90 - C270

Luminaire: LEDiL Oy CP15916_CARMEN-RS-C_(VERO10+F15616)
Lamps: 1 x Bridgelux_VERO10_(30-E1000B-Y2)_+F15616_HEKLA-SOCKET-F_820.387lm@250mA_CCT=3000K_P=6.48806W_I=0.25A

cd/klm

η = 61%

— C0 - C180   — C90 - C270

Luminaire: LEDiL Oy CP15774_CARMEN-S-C_(VERO10+F15616)
Lamps: 1 x Bridgelux_VERO10_(30-E1000B-Y2)_+F15616_HEKLA-SOCKET-
F_820.387lm@250mA_CCT=3000K_P=6.48806W_I=0.25A

cd/klm

——— C0 - C180   ——— C90 - C270

η = 75%

Luminaire: LEDiL Oy CP15775_CARMEN-M-C_(VERO10+F15616)
Lamps: 1 x Bridgelux_VERO10_(30-E1000B-Y2)_+F15616_HEKLA-SOCKET-
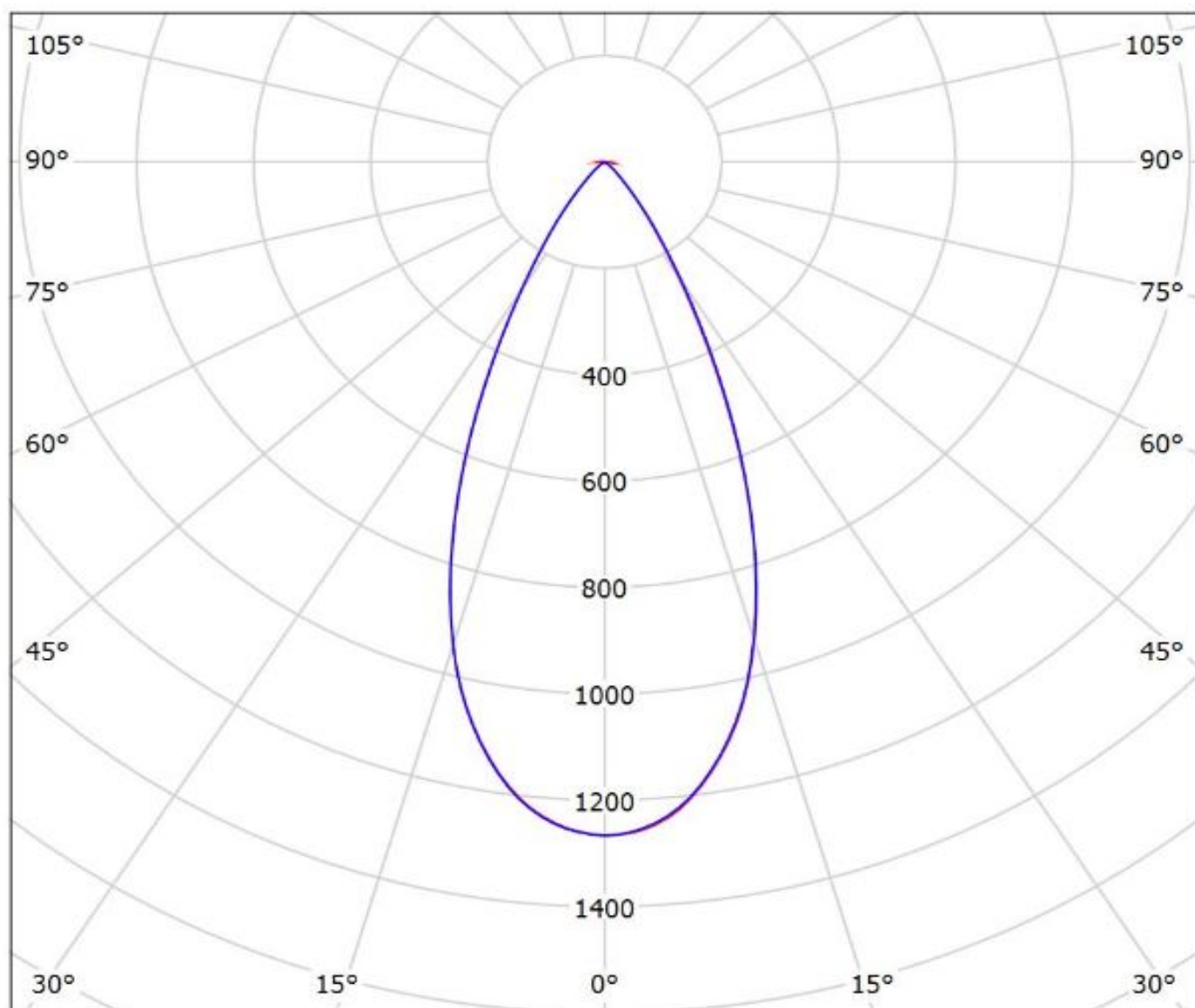F_820.387lm@250mA_CCT=3000K_P=6.48806W_I=0.25A

cd/klm

η = 74%

——— C0 - C180   ——— C90 - C270

Luminaire: LEDiL Oy CP15776_CARMEN-W-C_(VERO10+F15616)
Lamps: 1 x Bridgelux_VERO10_(30-E1000B-Y2)_+F15616_HEKLA-SOCKET-
F_820.387lm@250mA_CCT=3000K_P=6.48806W_I=0.25A

cd/klm
━━━ C0 - C180   ━━━ C90 - C270

η = 83%