PRODUCT DATASHEET
Gabriella series
last update 19/1/2018

DETAILS

Product Number	CN16208_GABRIELLA-MIDI-S
Family	Gabriella
Type	Assembly
Color	black
Diameter	37,8 mm
Height	24,08 mm
Style	round
Optic Material	PMMA
Holder Material	
Fastening	pin, screw
Status	production ready
ROHS Compliant	Yes
Date Updated	19/01/2018

OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector
LUXEON 5050	14 deg	Spot	91 %	11.500	-
LUXEON V	12 deg	Spot	89 %	15.100	-
Duris S8	sim: 14	Spot	sim: 92 %	sim: 12.800	-

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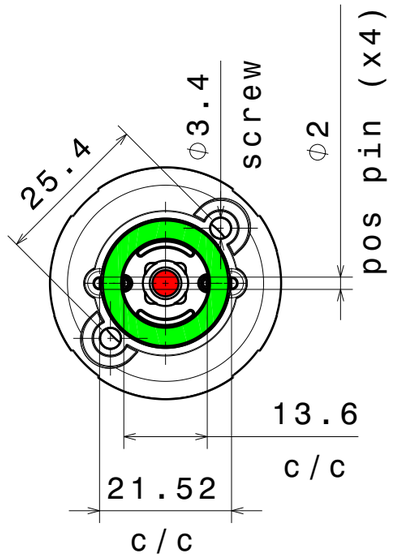
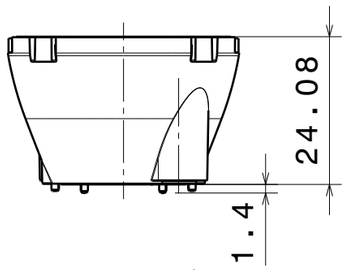
Salorankatu 10
24240 SALO, Finland

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

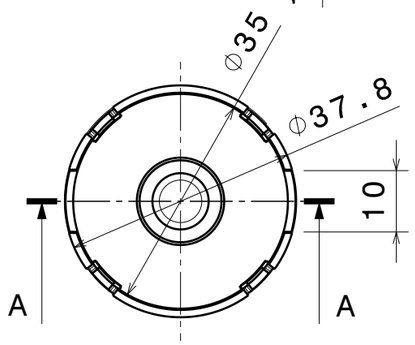
Bottom view
Scale: 1:1

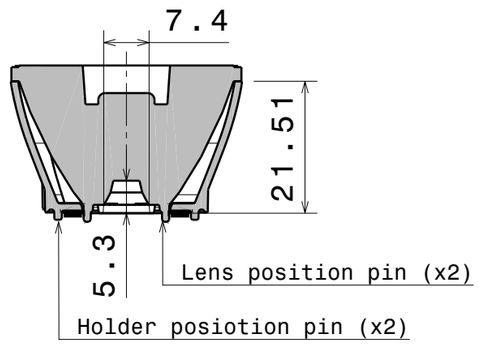


Front view
Scale: 1:1

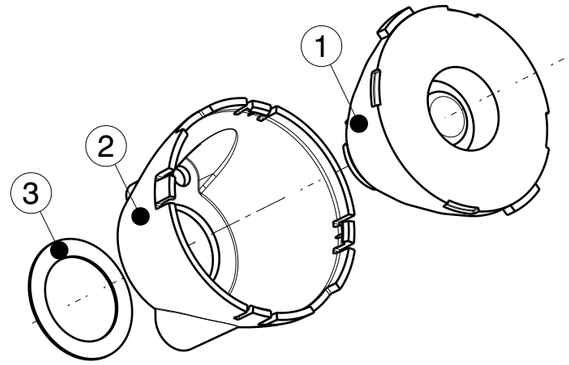


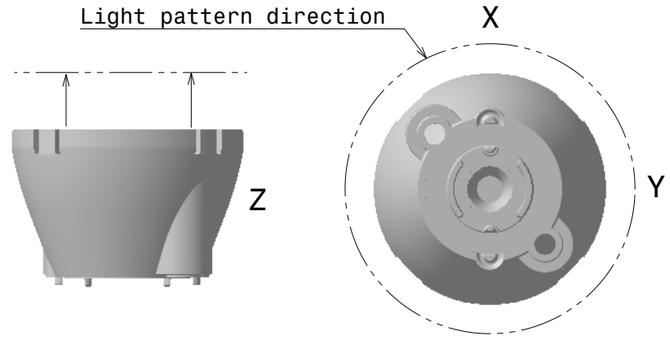
Top view
Scale: 1:1





Section view A-A
Scale: 1:1





CA16202_GABRIELLA-MIDI-S

COMPONENTS

INDEX	PRODUCT	TYPE	MATERIAL	COLOUR/COATING
1	C16193_GABRIELLA-MIDI-S	LENS	PMMA	CLEAR
2	C16192_GABRIELLA-MIDI-HLD	HOLDER	PC	BLACK
3	C16306_GABRIELLA-MIDI-TAPE	TAPE	PU	BLACK

Notes

PCB or Heat Sink level
Led location see marking.
Ensure LED fitting, see our web site and/or 3D model for part detail.
See more information on page 2,3,4
Optional parts can be shown in drawing.

MECHANICAL DRAWING

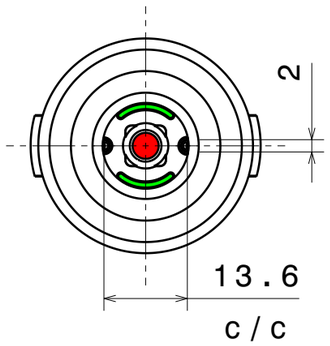
PRODUCT
GABRIELLA-MIDI

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

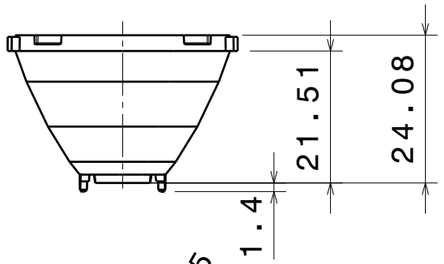
FIRST ANGLE PROJECTION:

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

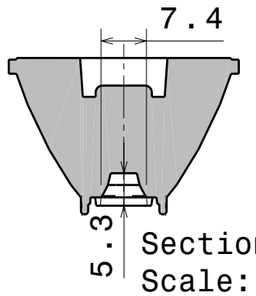
SCALE 1:1 | SIZE A3 | SHEET 1/4



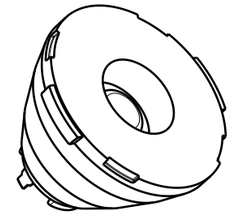
Bottom view
Scale: 1:1



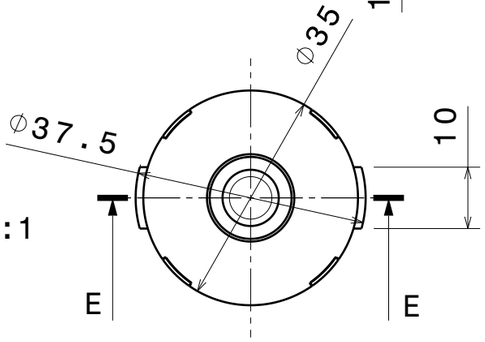
Front view
Scale: 1:1



Section view E-E
Scale: 1:1



Isometric view
Scale: 1:1



Top view
Scale: 1:1

Notes

PCB or Heat Sink level
Led location see marking.
Ensure LED fitting, see our web site and/or 3D model for part detail.

COMPONENTS

INDEX	PRODUCT	TYPE	MATERIAL	COLOUR/COATING
1	C16193_GABRIELLA-MIDI-S	LENS	PMMA	CLEAR

MECHANICAL DRAWING

PRODUCT
GABRIELLA-MIDI

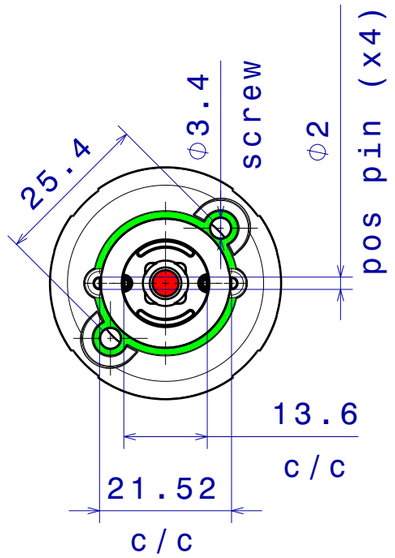
Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

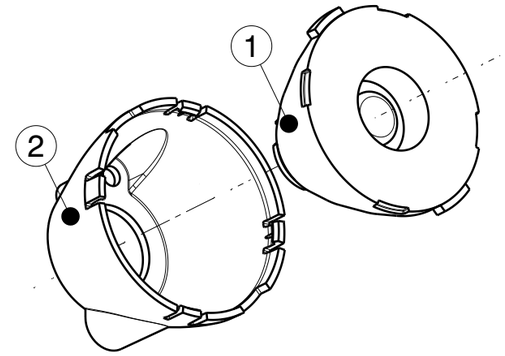
FIRST ANGLE PROJECTION:

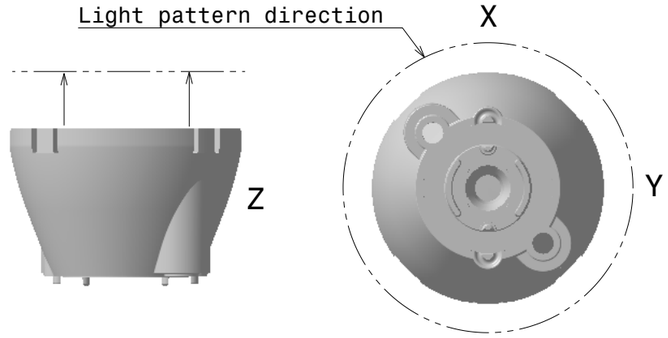
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

SCALE 1:1 | SIZE A3 | SHEET 2/4

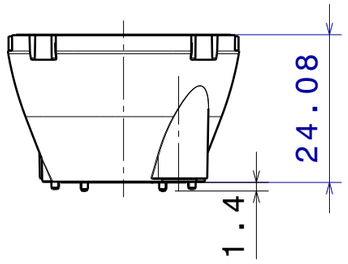
Bottom view
Scale: 1:1

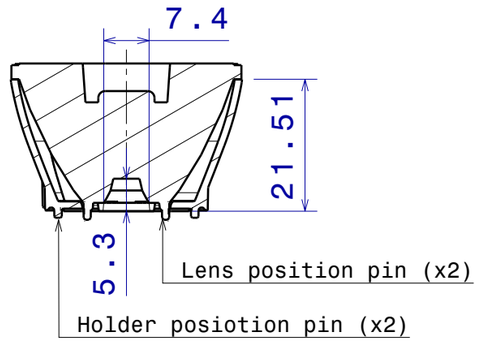






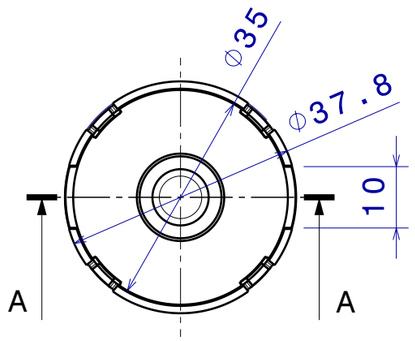
Front view
Scale: 1:1





Section view A-A
Scale: 1:1

Top view
Scale: 1:1



CN16208_GABRIELLA-MIDI-S

COMPONENTS

INDEX	PRODUCT	TYPE	MATERIAL	COLOUR/COATING
1	C16193_GABRIELLA-MIDI-S	LENS	PMMA	CLEAR
2	C16192_GABRIELLA-MIDI-HLD	HOLDER	PC	BLACK

Notes

PCB or Heat Sink level
Led location see marking.
Ensure LED fitting, see our web site and/or 3D model for part detail.

MECHANICAL DRAWING

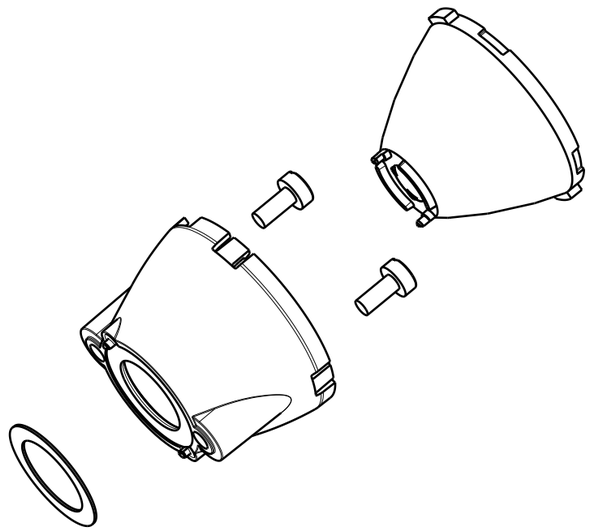
PRODUCT
GABRIELLA-MIDI

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

FIRST ANGLE PROJECTION:

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

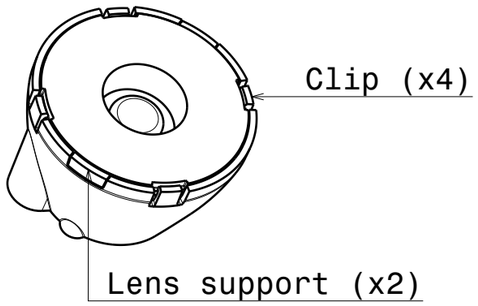
SCALE 1:1 | SIZE A3 | SHEET 3/4

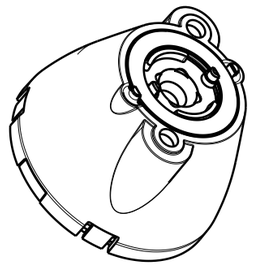


1. Place holder on PCB using the holder location pins as guide elements. Holder is fixed either by with on-board PU-tape or M3 screw with max 0.6Nm torgue.

2. Place lens support features into relative holes in the holder, please note that the location pins on the lens goes through the PCB.

3.Press optic until 4 clips each locked.





MECHANICAL DRAWING

PRODUCT
GABRIELLA-MIDI

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

FIRST ANGLE PROJECTION:

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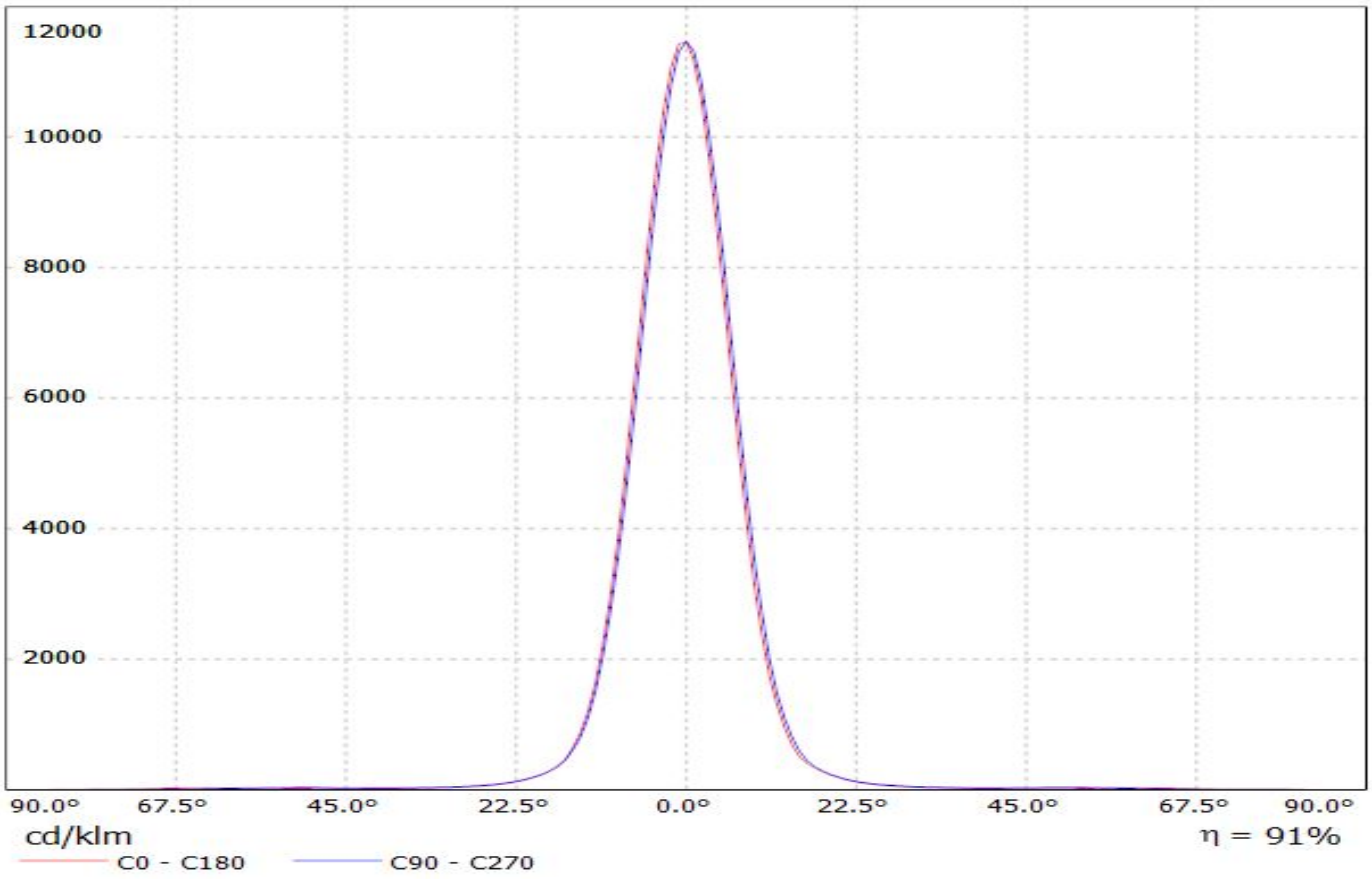
SCALE 1:1

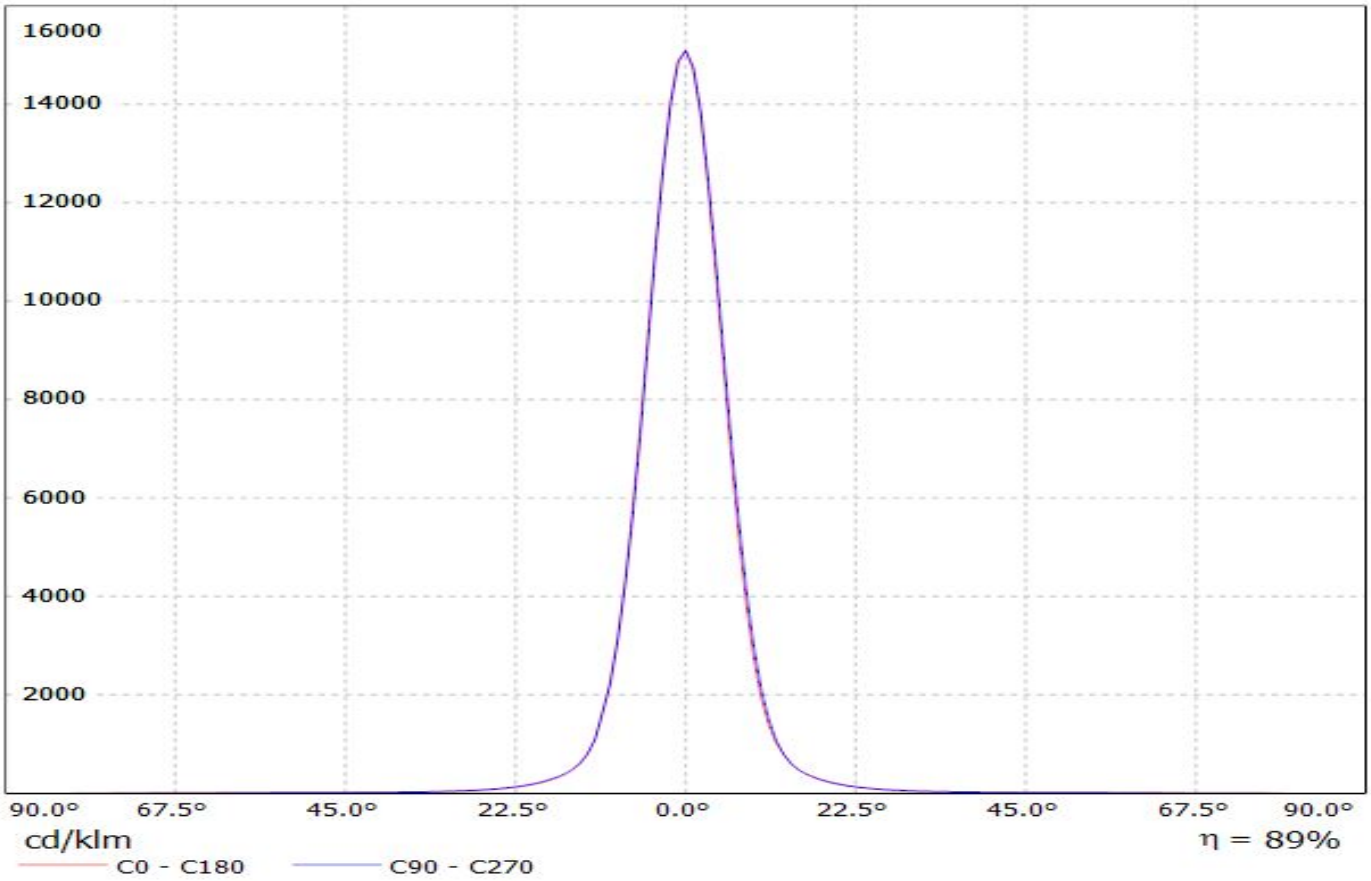
SIZE A3

SHEET 4/4

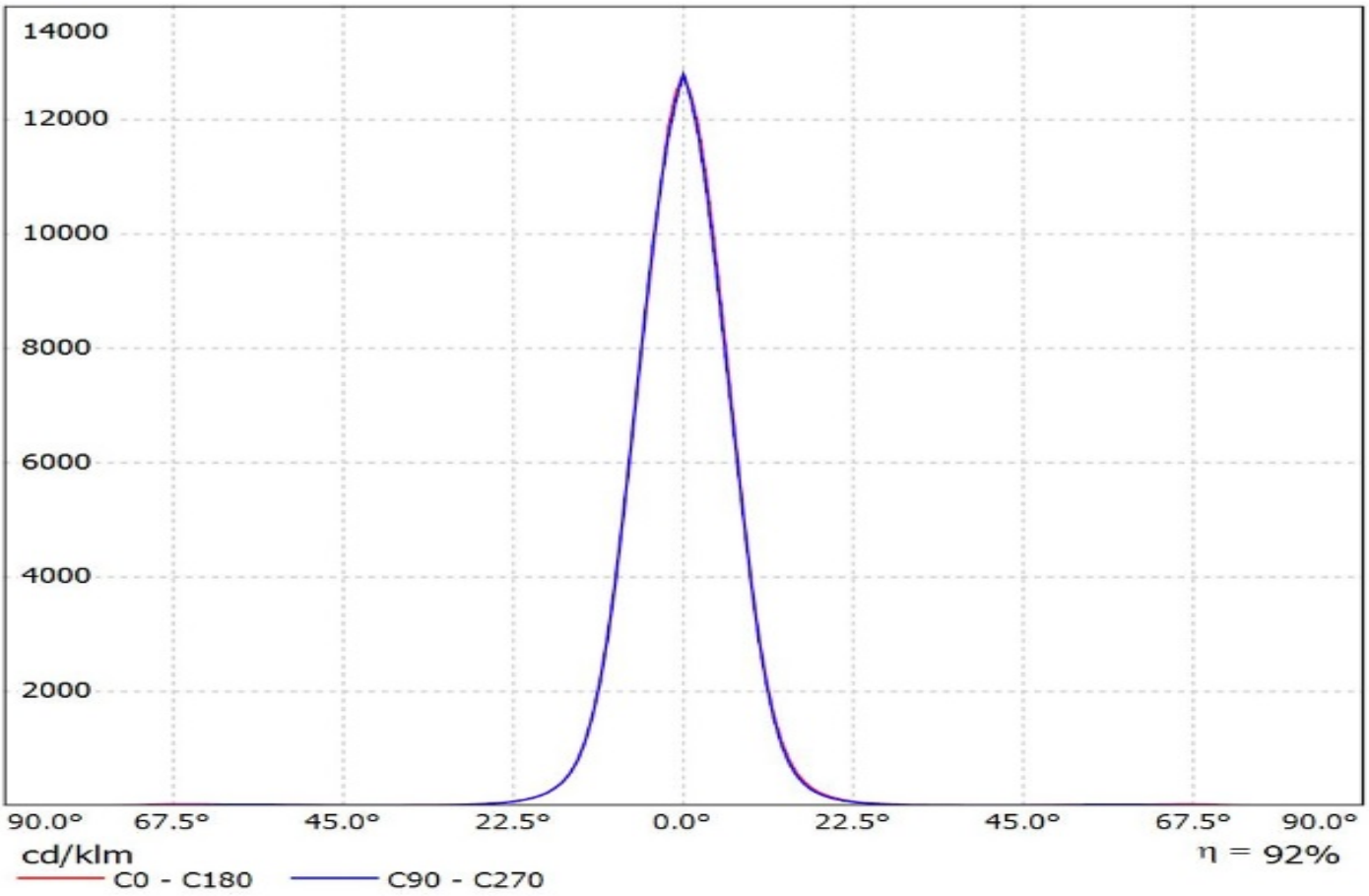
Luminaire: LEDiL Oy CN16208_GABRIELLA-MIDI-S_(Luxeon_5050)
Lamps: 1 x Lumileds_Luxeon_5050_318.879lm@80mA_CCT=5700K_P=1.84484W_U=23.015V



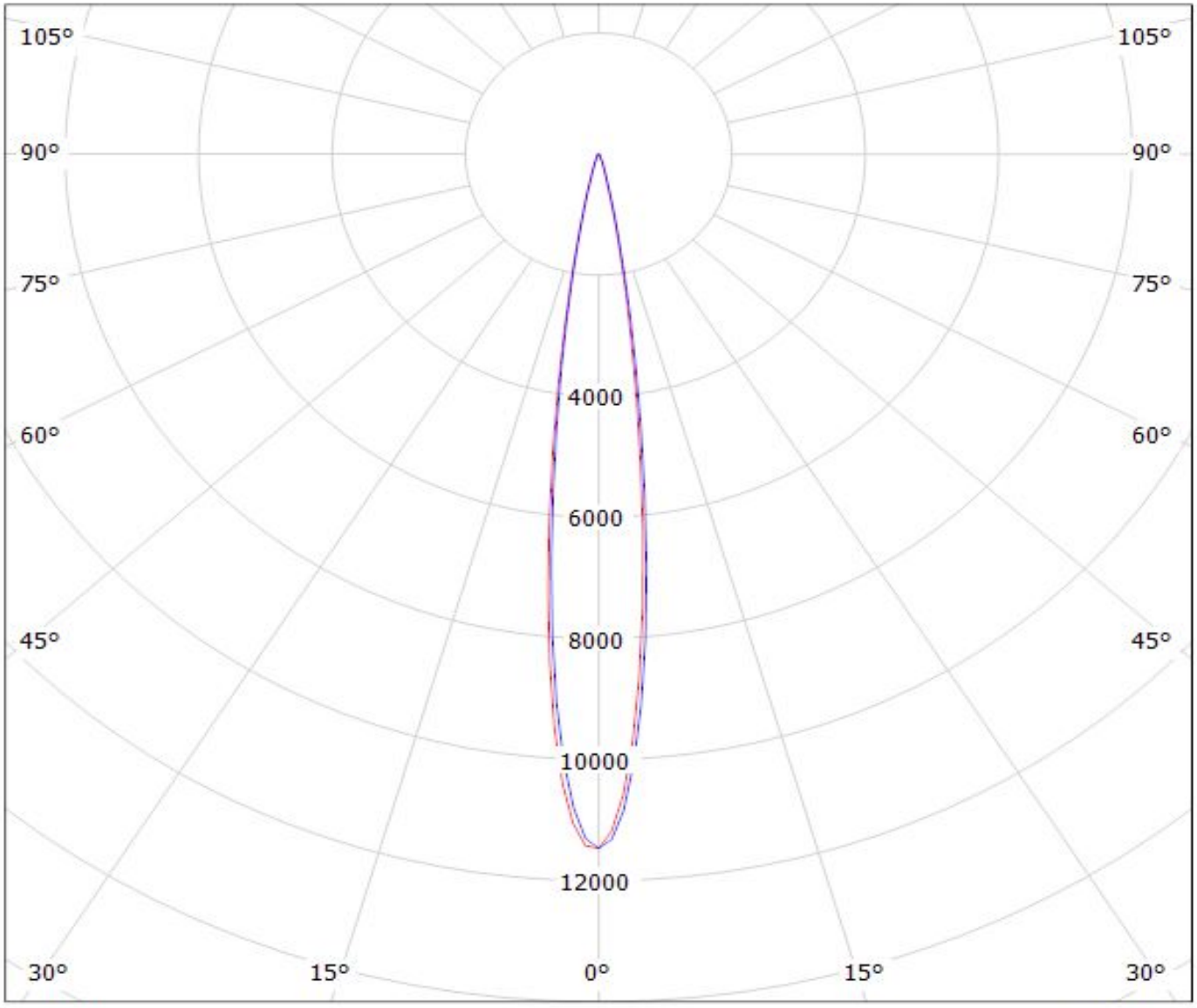
Luminaire: LEDiL Oy CN16208_GABRIELLA-MIDI-S_(Luxeon_V)
Lamps: 1 x Lumileds_Luxeon_V_122.501lm@250mA_P=0.704586W_U=2.8206V



Luminaire: Ledil Oy CN16208_GABRIELLA-MIDI-S_(Duris_S8)_SIMULATED
Lamps: 1 x Osram Duris S8 - GW P9LM31.EM



Luminaire: LEDiL Oy CN16208_GABRIELLA-MIDI-S_(Luxeon_5050)
Lamps: 1 x Lumileds_Luxeon_5050_318.879lm@80mA_CCT=5700K_P=1.84484W_U=23.015V

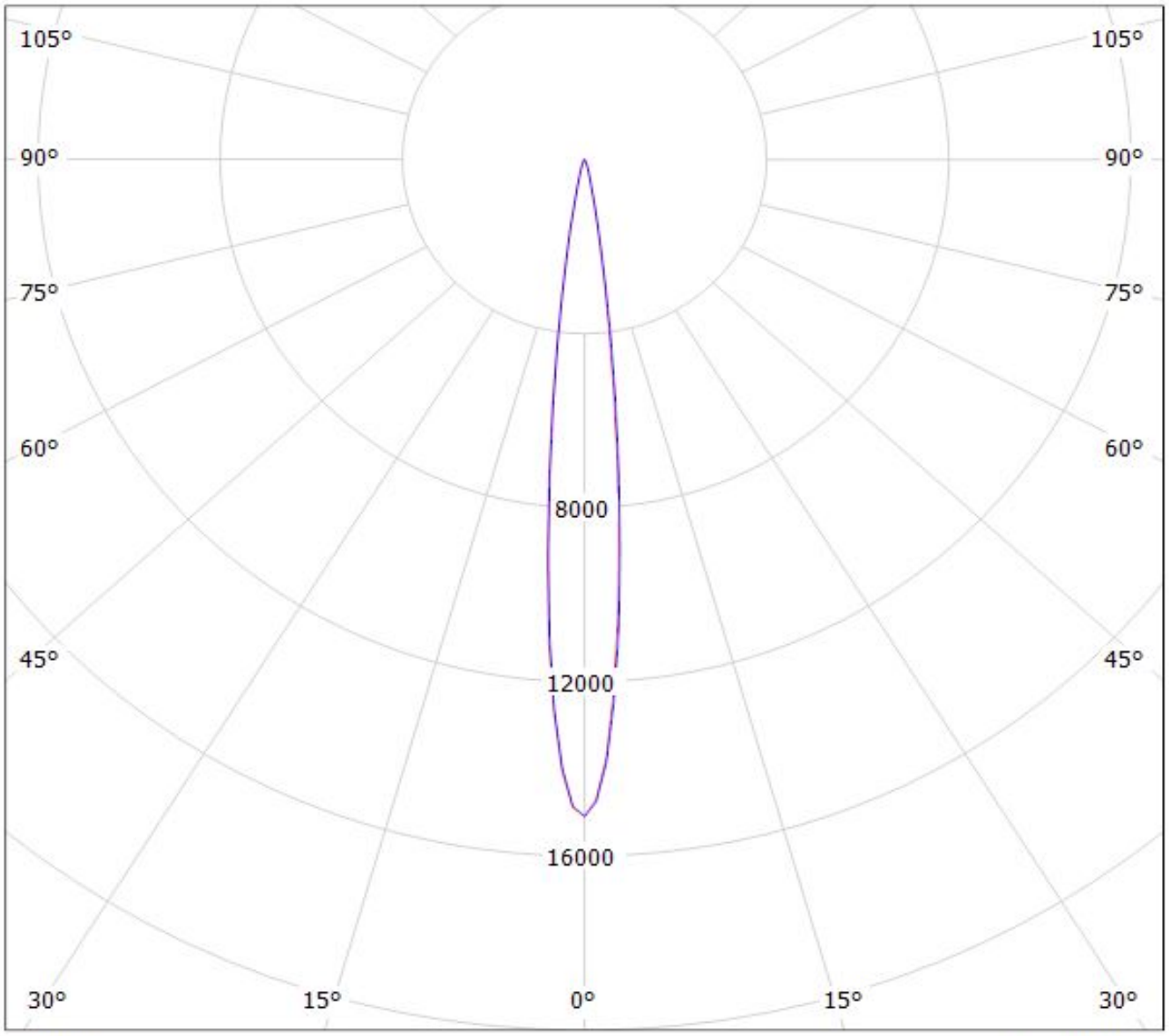


cd/klm

η = 91%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy CN16208_GABRIELLA-MIDI-S_(Luxeon_V)
Lamps: 1 x Lumileds_Luxeon_V_122.501lm@250mA_P=0.704586W_U=2.8206V

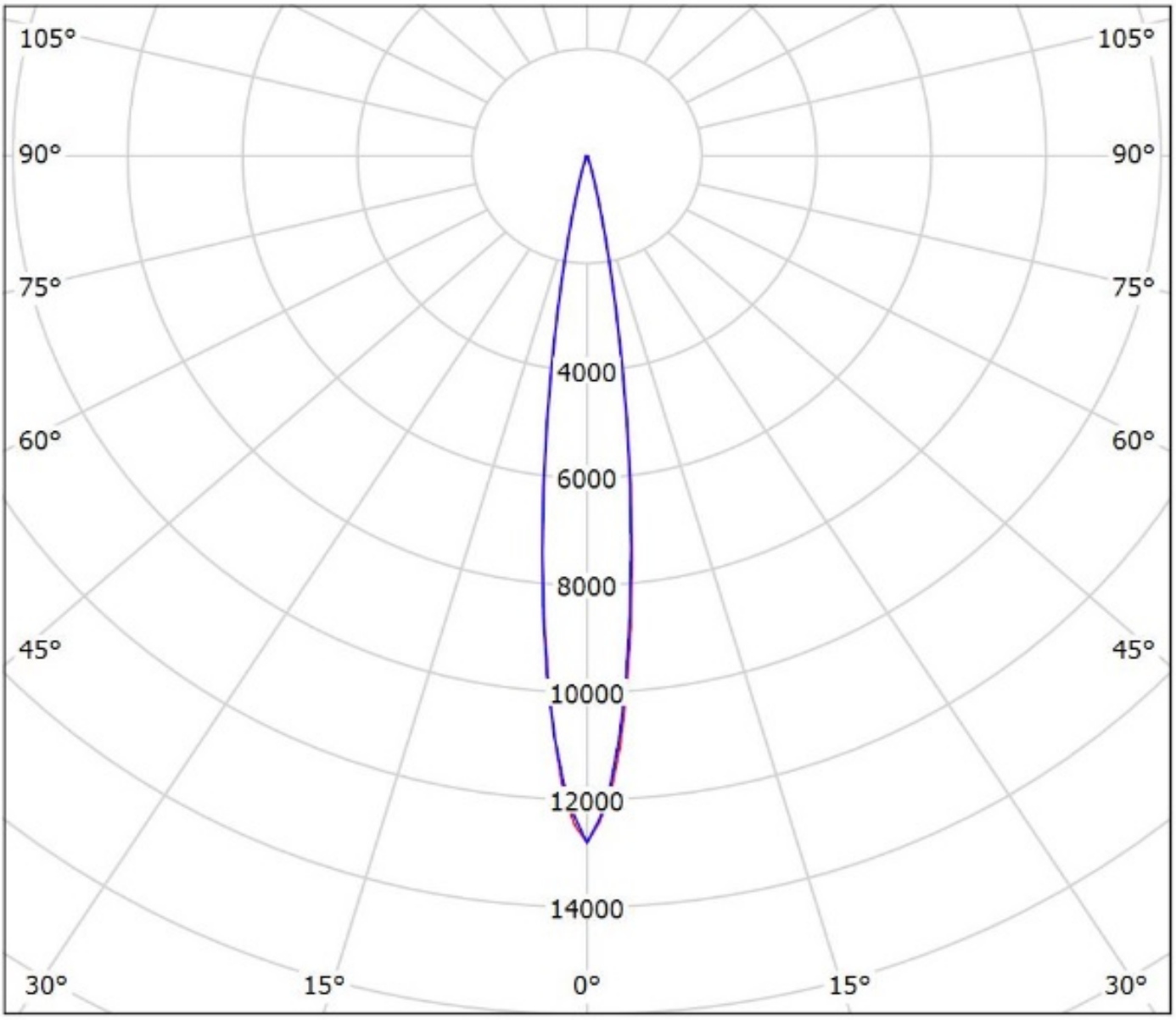


cd/klm

η = 89%

C0 - C180 C90 - C270

Luminaire: Ledil Oy CN16208_GABRIELLA-MIDI-S_(Duris_S8)_SIMULATED
Lamps: 1 x Osram Duris S8 - GW P9LM31.EM



cd/klm
η = 92%
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.