

**Product number C11606\_ANNA-50-3-S**

Family	Anna	FWHM	18 degrees
Type	Lens array	Efficiency	93 %
LED	LUXEON Rebel ES	cd/lm	6.100
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "pin"]		
Status	Production ready		

**Product number C11612\_ANNA-50-5-S**

Family	Anna	FWHM	18 degrees
Type	Lens array	Efficiency	93 %
LED	LUXEON Rebel ES	cd/lm	6.100
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "pin"]		
Status	Production ready		

**Product number C11670\_ANNA-50-7-S**

Family	Anna	FWHM	18 degrees
Type	Lens array	Efficiency	93 %
LED	LUXEON Rebel ES	cd/lm	6.100
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["pin", "glue"]		
Status	Production ready		

**Product number C11799\_ANNA-50-4-S**

Family	Anna	FWHM	18 degrees
Type	Lens array	Efficiency	93 %
LED	LUXEON Rebel ES	cd/lm	6.100
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "pin"]		
Status	Production ready		

**Product number C11811\_ANNA-50-6-S**

Family	Anna	FWHM	18 degrees
Type	Lens array	Efficiency	93 %
LED	LUXEON Rebel ES	cd/lm	6.100
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["pin", "glue"]		
Status	Production ready		

**Product number C11607\_ANNA-50-3-M**

Family	Anna	FWHM	27 degrees
Type	Lens array	Efficiency	87 %
LED	LUXEON Rebel ES	cd/lm	2.300
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "pin"]		
Status	Production ready		

**Product number C11613\_ANNA-50-5-M**

Family	Anna	FWHM	27 degrees
Type	Lens array	Efficiency	87 %
LED	LUXEON Rebel ES	cd/lm	2.300
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["pin", "glue"]		
Status	Production ready		

**Product number C11679\_ANNA-50-7-M**

Family	Anna	FWHM	27 degrees
Type	Lens array	Efficiency	87 %
LED	LUXEON Rebel ES	cd/lm	2.300
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["pin", "glue"]		
Status	Production ready		

**Product number C11800\_ANNNA-50-4-M**

Family	Anna	FWHM	27 degrees
Type	Lens array	Efficiency	87 %
LED	LUXEON Rebel ES	cd/lm	2.300
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "pin"]		
Status	Production ready		

**Product number C11812\_ANNNA-50-6-M**

Family	Anna	FWHM	27 degrees
Type	Lens array	Efficiency	87 %
LED	LUXEON Rebel ES	cd/lm	2.300
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "pin"]		
Status	Production ready		

**Product number C11608\_ANNNA-50-3-W**

Family	Anna	FWHM	29 degrees
Type	Lens array	Efficiency	86 %
LED	LUXEON Rebel ES	cd/lm	2.200
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["pin", "glue"]		
Status	Production ready		

**Product number C11614\_ANNNA-50-5-W**

Family	Anna	FWHM	29 degrees
Type	Lens array	Efficiency	86 %
LED	LUXEON Rebel ES	cd/lm	2.200
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "pin"]		
Status	Production ready		

**Product number C11682\_ANNA-50-7-W**

Family	Anna	FWHM	29 degrees
Type	Lens array	Efficiency	86 %
LED	LUXEON Rebel ES	cd/lm	2.200
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["pin", "glue"]		
Status	Production ready		

**Product number C11801\_ANNA-50-4-W**

Family	Anna	FWHM	29 degrees
Type	Lens array	Efficiency	86 %
LED	LUXEON Rebel ES	cd/lm	2.200
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "pin"]		
Status	Production ready		

**Product number C11813\_ANNA-50-6-W**

Family	Anna	FWHM	29 degrees
Type	Lens array	Efficiency	86 %
LED	LUXEON Rebel ES	cd/lm	2.200
Color	Clear	Gerber File	Available
Diameter	50 mm		
Height	10.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "pin"]		
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.**



## PRODUCT DATASHEET

### Anna series

last update 7/3/2014

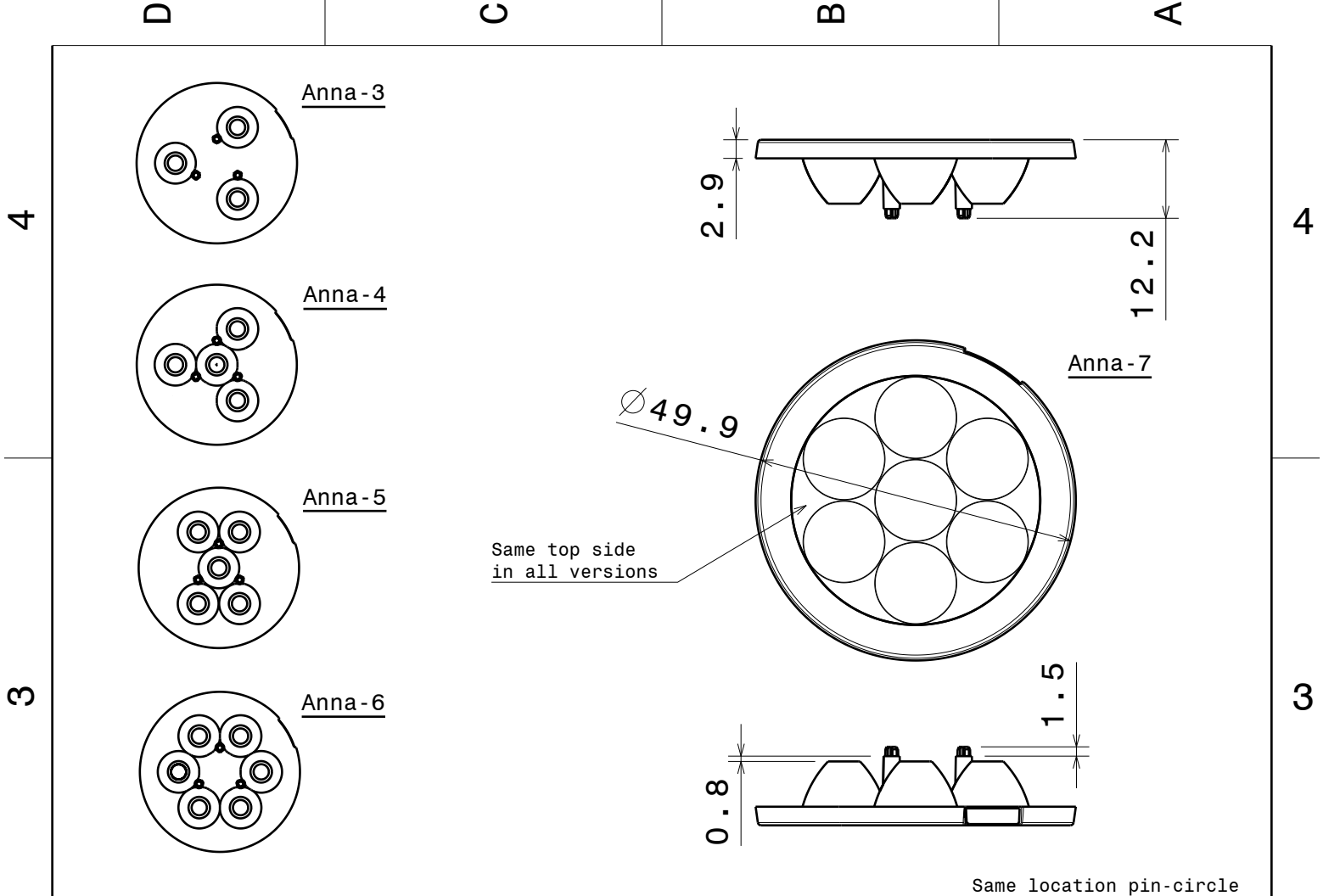
#### GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON Rebel ES 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%20N%20UL94\\_Yellow%20Card.pdf](http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20UL94_Yellow%20Card.pdf)

<http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20PLEXIGLAS-Datasheet.pdf>



Material: PMMA

- Versions:  
 Anna-3-S  
 Anna-3-M  
 Anna-3-W  
 Anna-4-S  
 Anna-4-M  
 Anna-4-W  
 Anna-5-S  
 Anna-5-M  
 Anna-5-W  
 Anna-6-S  
 Anna-6-M  
 Anna-6-W  
 Anna-7-S  
 Anna-7-M  
 Anna-7-W

Number of cones varies;  
 3, 4, 5, 6 and 7 pcs  
 on bottom side depending  
 the version.

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 or communicated without  
 our written agreement.



DRAWING TITLE

DRAWN BY  
p

DATE  
05.10.2010

Datasheet Anna50-series Lens

CHECKED BY  
t k

DATE  
03.08.2010

SIZE A4 DRAWING NUMBER -

REV  
1

DESIGNED BY  
hh

DATE  
30.07.2010

SCALE 1:1 WEIGHT (g)

SHEET 1/1

4

4

3

3

2

2

1

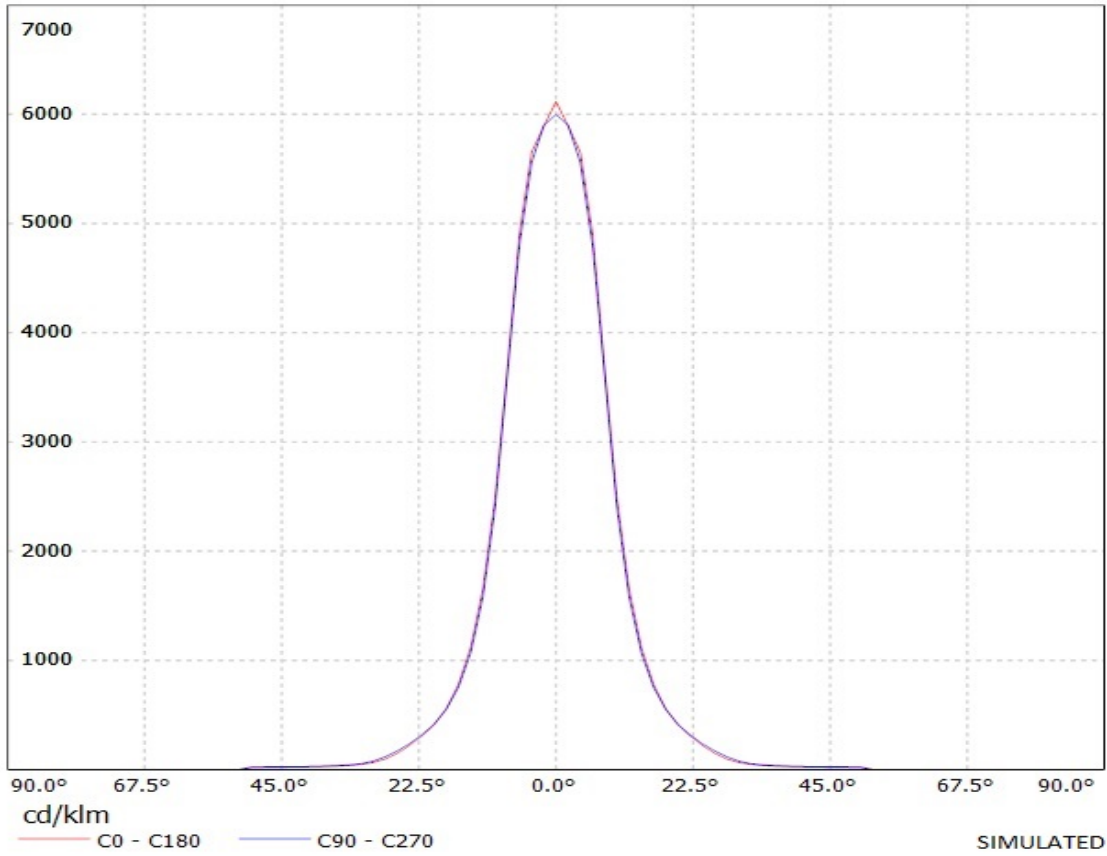
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D

A

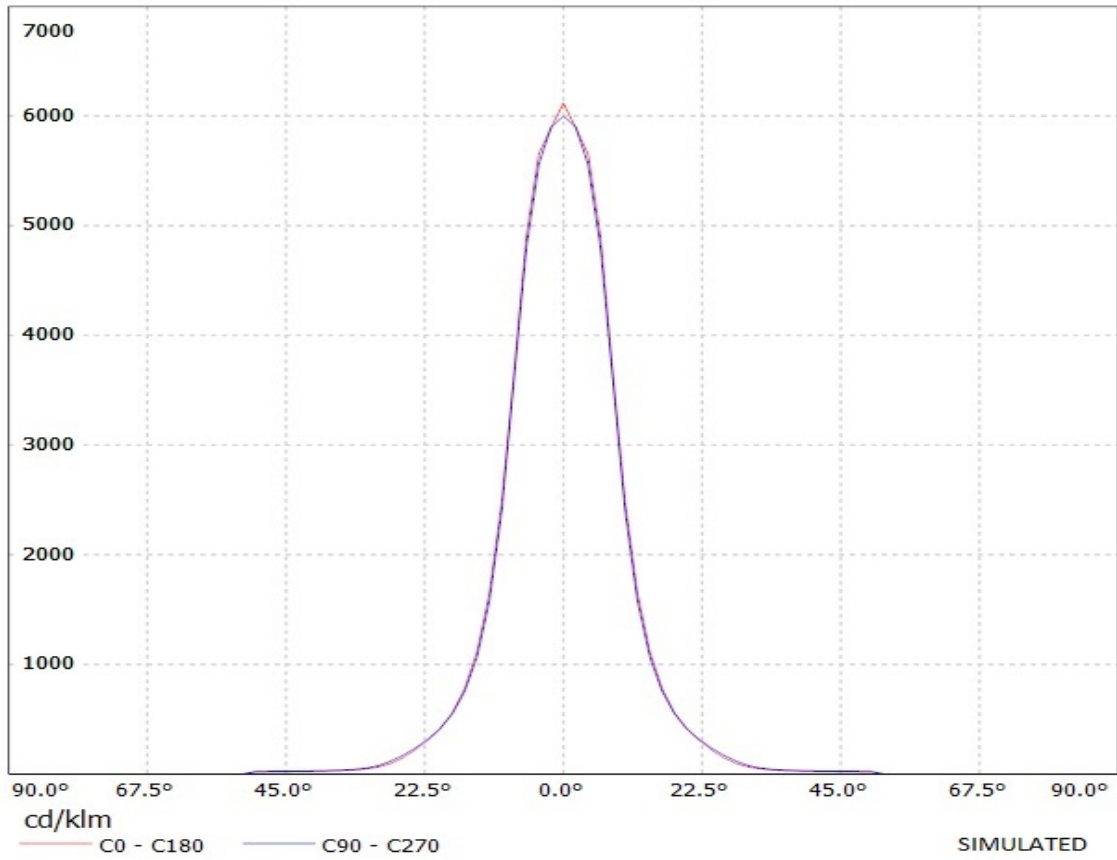
# Ledil Oy C11606-Anna-50-3-S-RE-ES C11606-Anna-50-3-S-RE-ES / LDC (Linear)

Luminaire: Ledil Oy C11606-Anna-50-3-S-RE-ES C11606-Anna-50-3-S-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



# Ledil Oy C11612-Anna-50-5-S-RE-ES C11612-Anna-50-5-S-RE-ES / LDC (Linear)

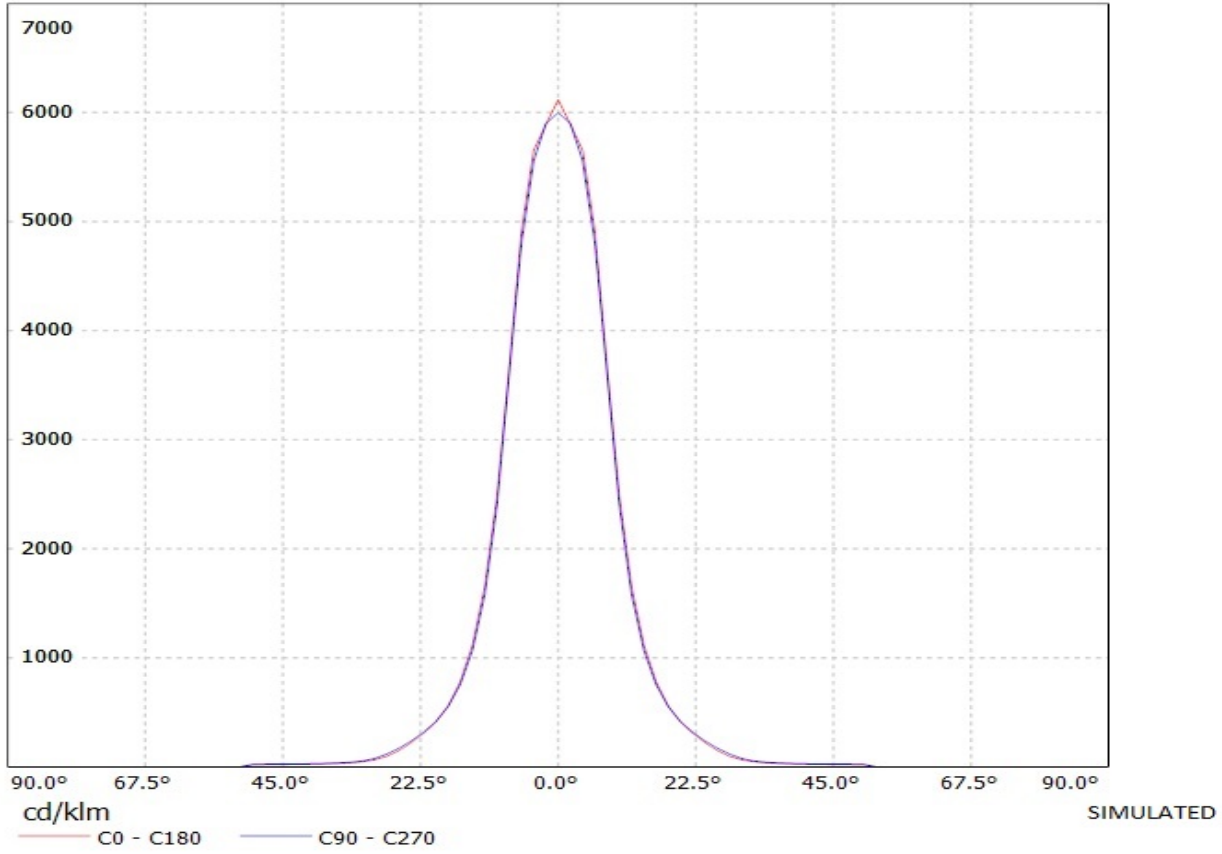
Luminaire: Ledil Oy C11612-Anna-50-5-S-RE-ES C11612-Anna-50-5-S-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)





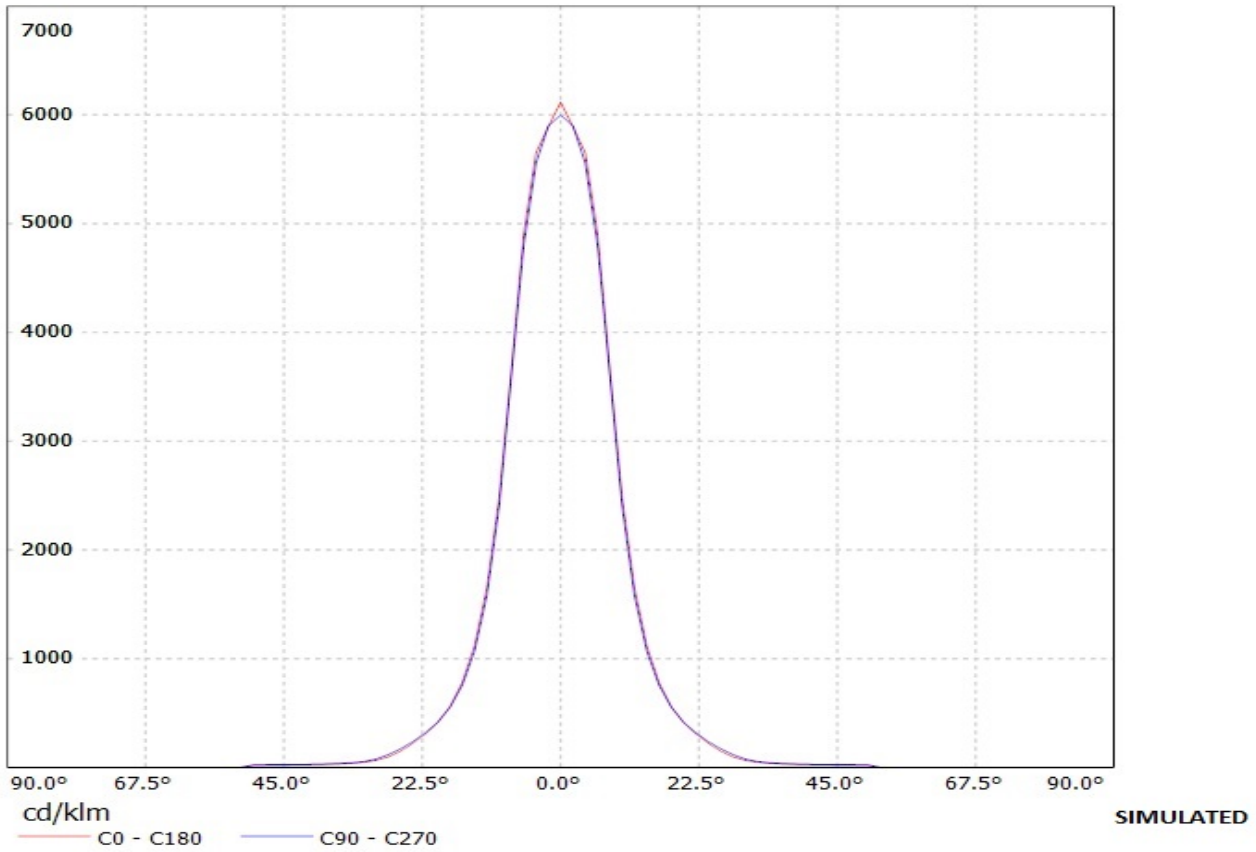
# Ledil Oy C11670-Anna-50-7-S-RE-ES C11670-Anna-50-7-S-RE-ES / LDC (Linear)

Luminaire: Ledil Oy C11670-Anna-50-7-S-RE-ES C11670-Anna-50-7-S-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



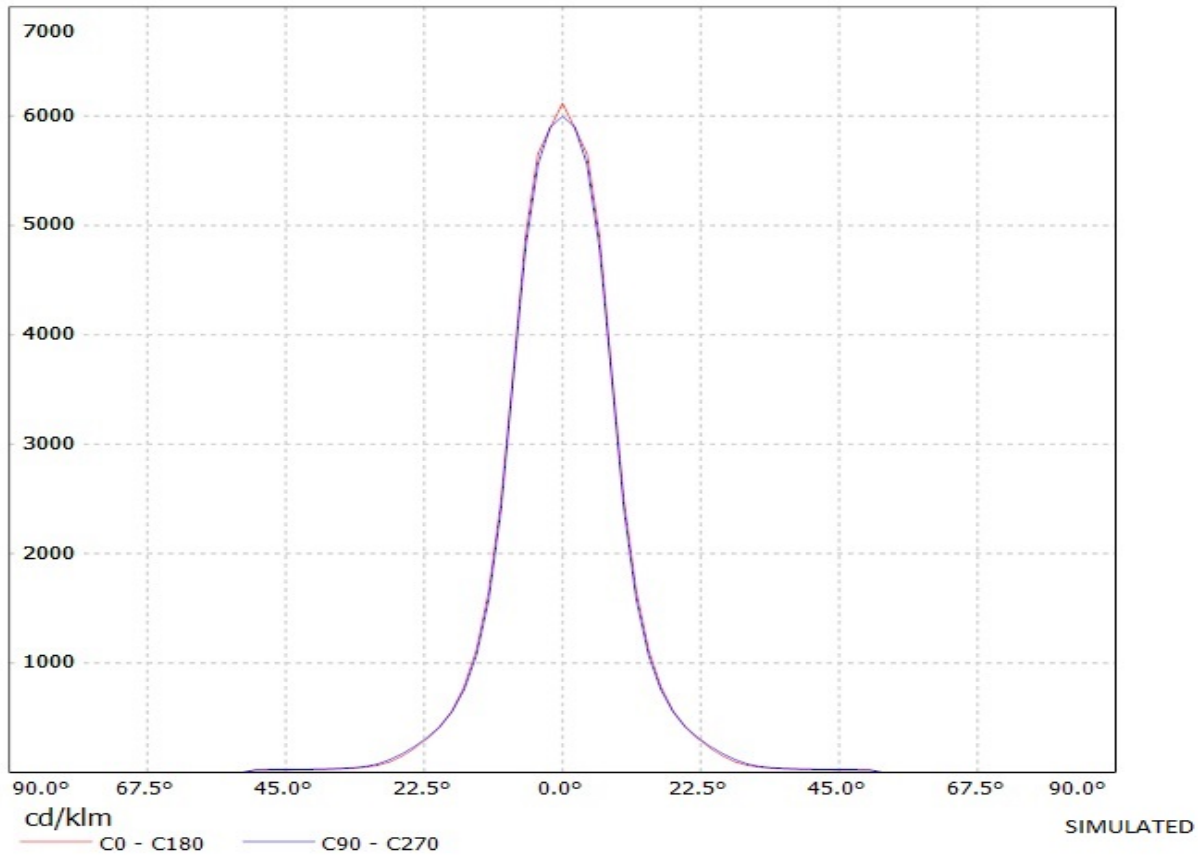
Ledil Oy C11799-Anna-50-4-S-RE-ES C11799-Anna-50-4-S-RE-ES / LDC (Linear)

Luminaire: Ledil Oy C11799-Anna-50-4-S-RE-ES C11799-Anna-50-4-S-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



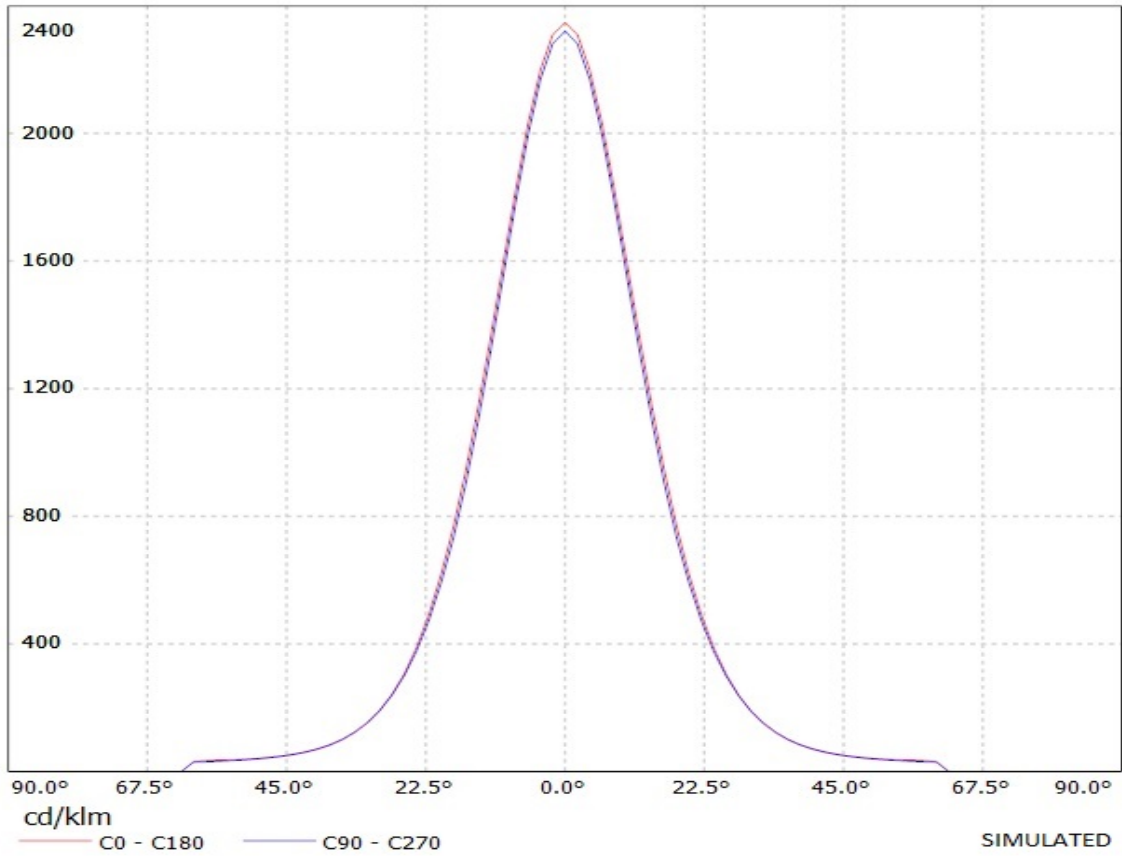
# Ledil Oy C11811-Anna-50-6-S-RE-ES C11811-Anna-50-6-S-RE-ES / LDC (Linear)

Luminaire: Ledil Oy C11811-Anna-50-6-S-RE-ES C11811-Anna-50-6-S-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



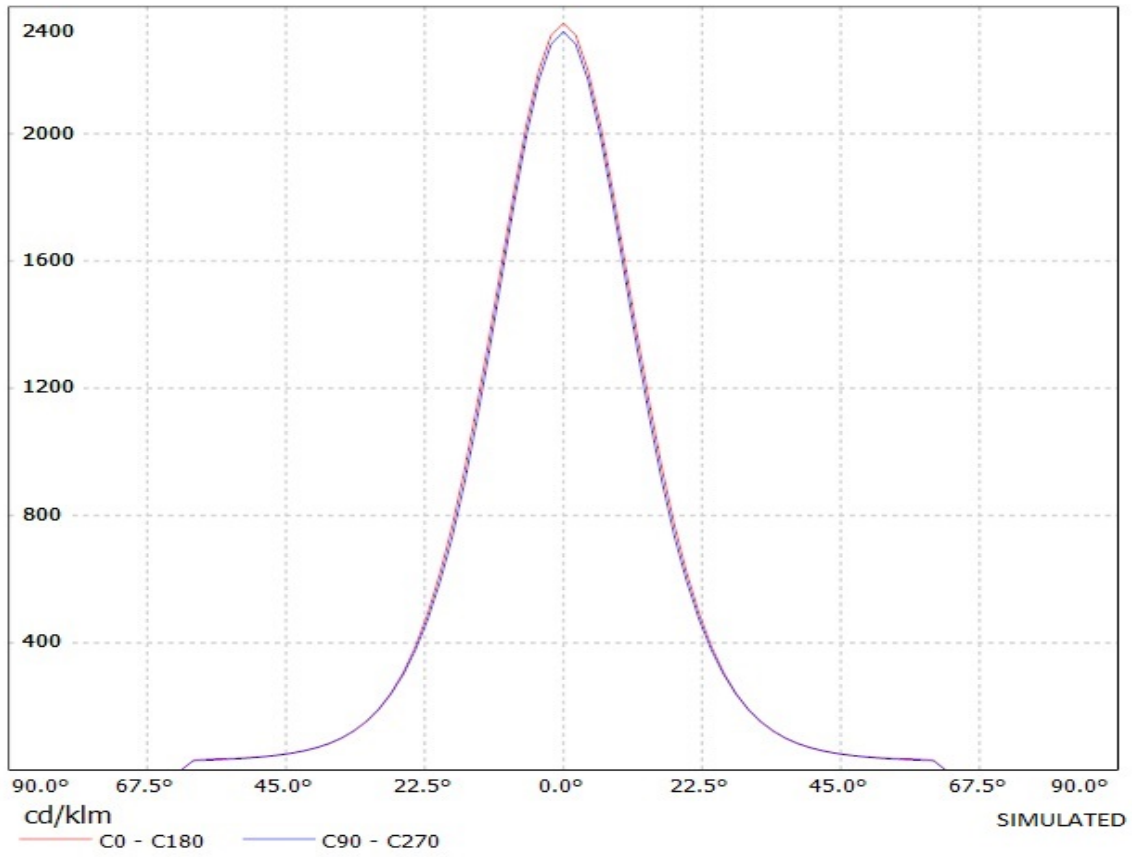
# Ledil Oy C11607-Anna-50-3-M-RE-ES C11607-Anna-50-3-M-RE-ES / LDC (Linear)

Luminaire: Ledil Oy C11607-Anna-50-3-M-RE-ES C11607-Anna-50-3-M-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



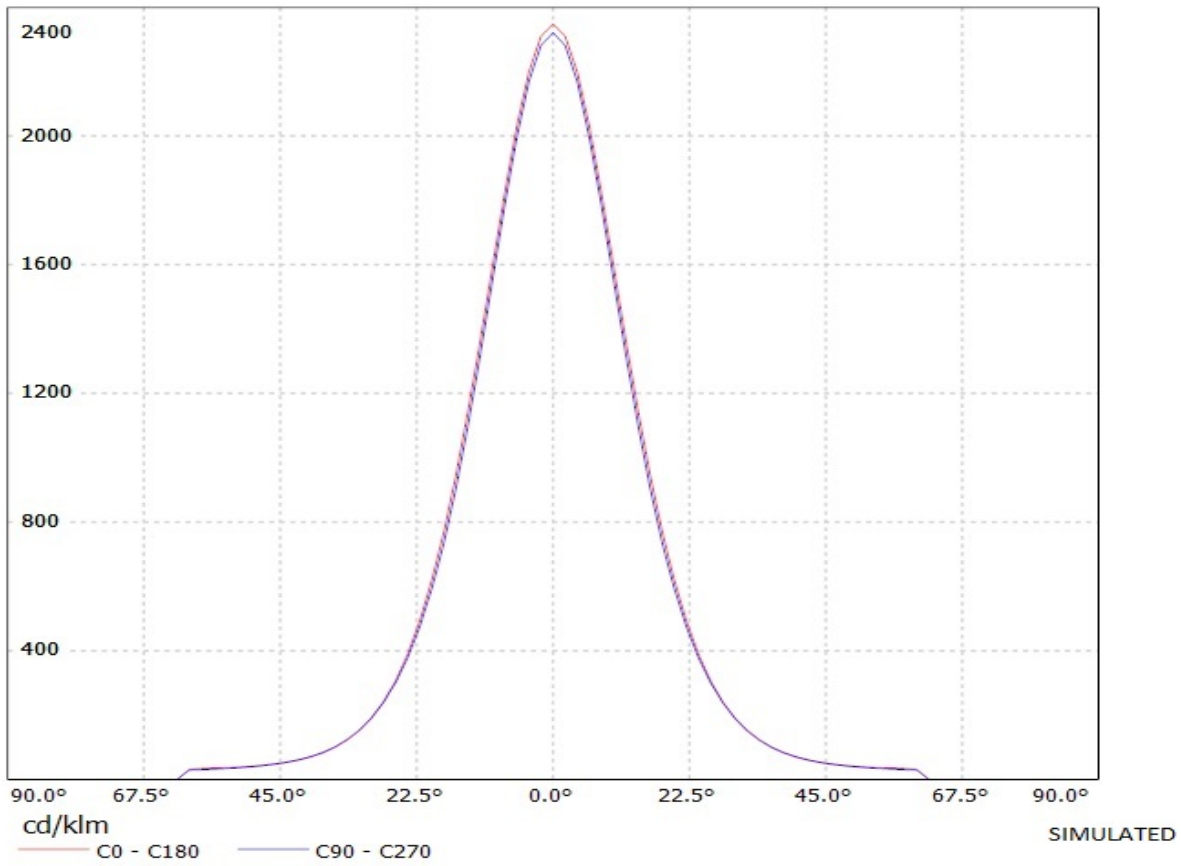
# Ledil Oy C11613-Anna-50-5-M-RE-ES C11613-Anna-50-5-M-RE-ES / LDC (Linear)

Luminaire: Ledil Oy C11613-Anna-50-5-M-RE-ES C11613-Anna-50-5-M-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



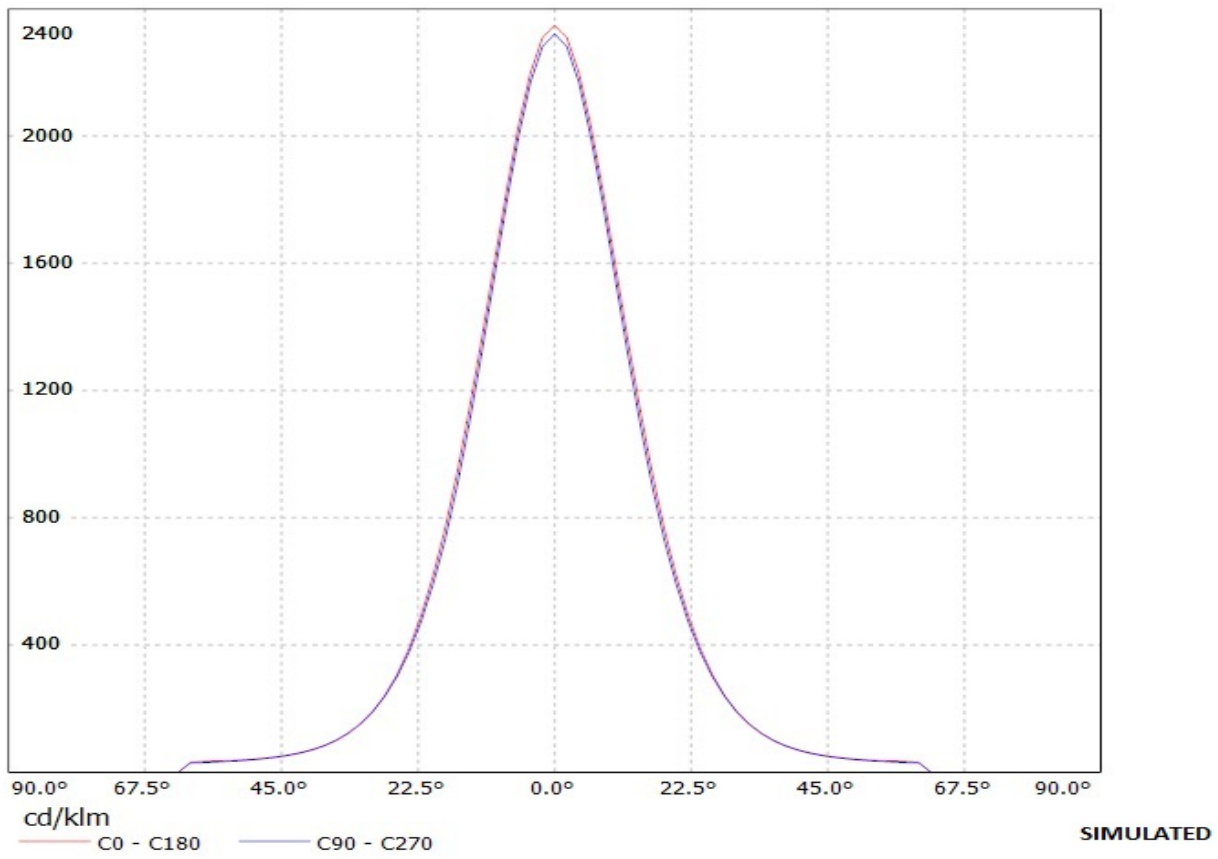
# Ledil Oy C11679-Anna-50-7-M-RE-ES C11679-Anna-50-7-M-RE-ES / LDC (Linear)

Luminaire: Ledil Oy C11679-Anna-50-7-M-RE-ES C11679-Anna-50-7-M-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



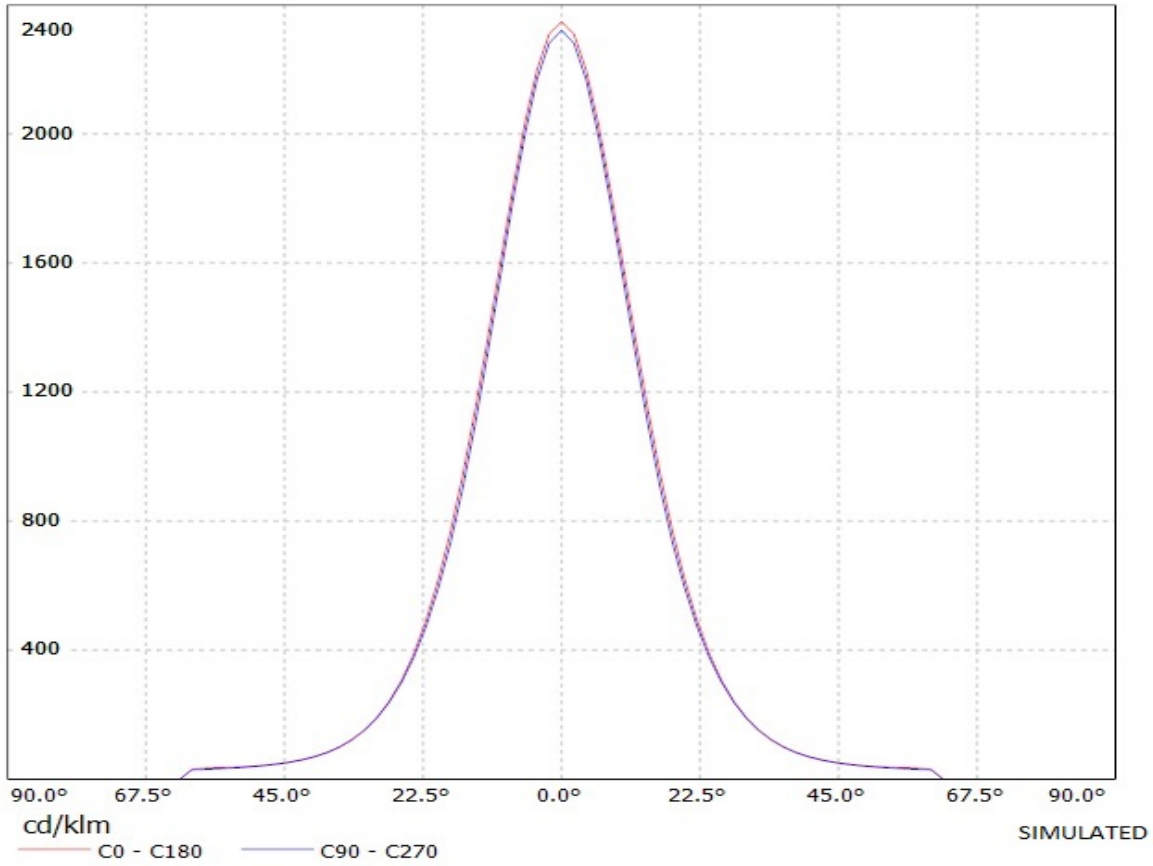
# Ledil Oy C11800-Anna-50-4-M-RE-ES C11800-Anna-50-4-M-RE-ES / LDC (Linear)

Luminaire: Ledil Oy C11800-Anna-50-4-M-RE-ES C11800-Anna-50-4-M-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



Ledil Oy C11812-Anna-50-6-M-RE-ES C11812-Anna-50-6-M-RE-ES / LDC (Linear)

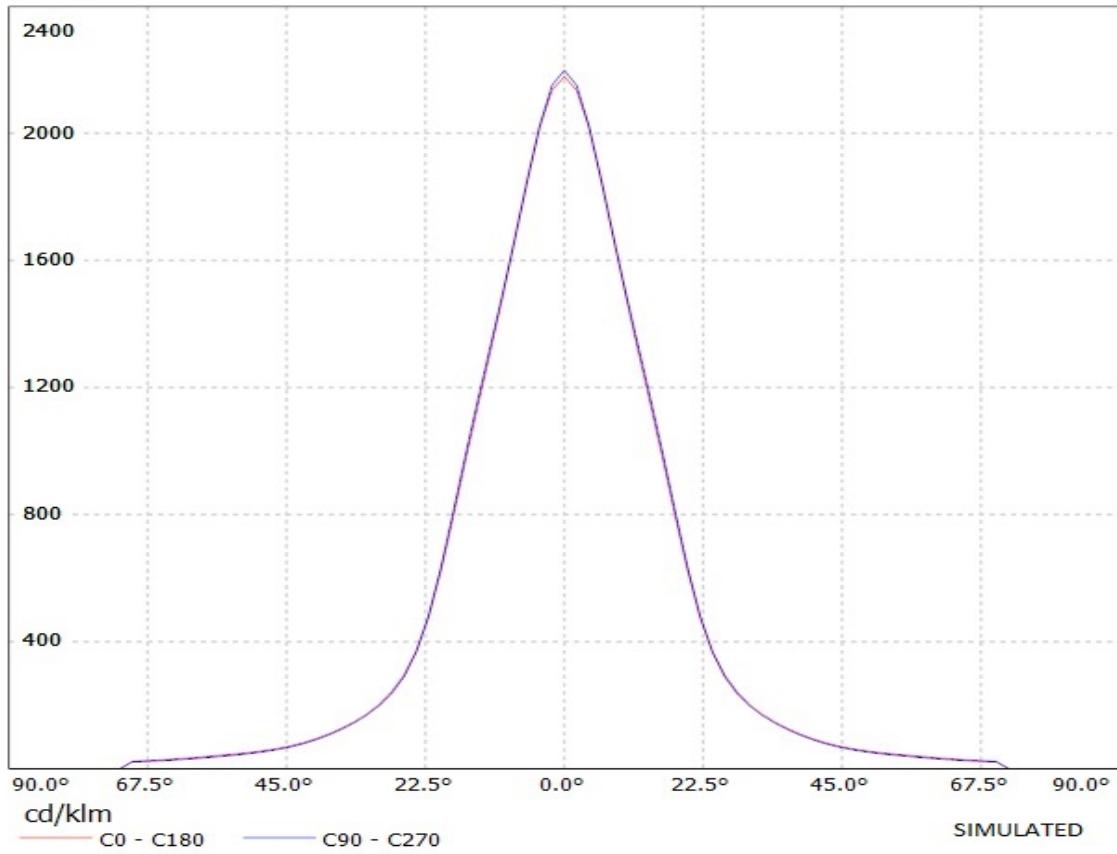
Luminaire: Ledil Oy C11812-Anna-50-6-M-RE-ES C11812-Anna-50-6-M-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)





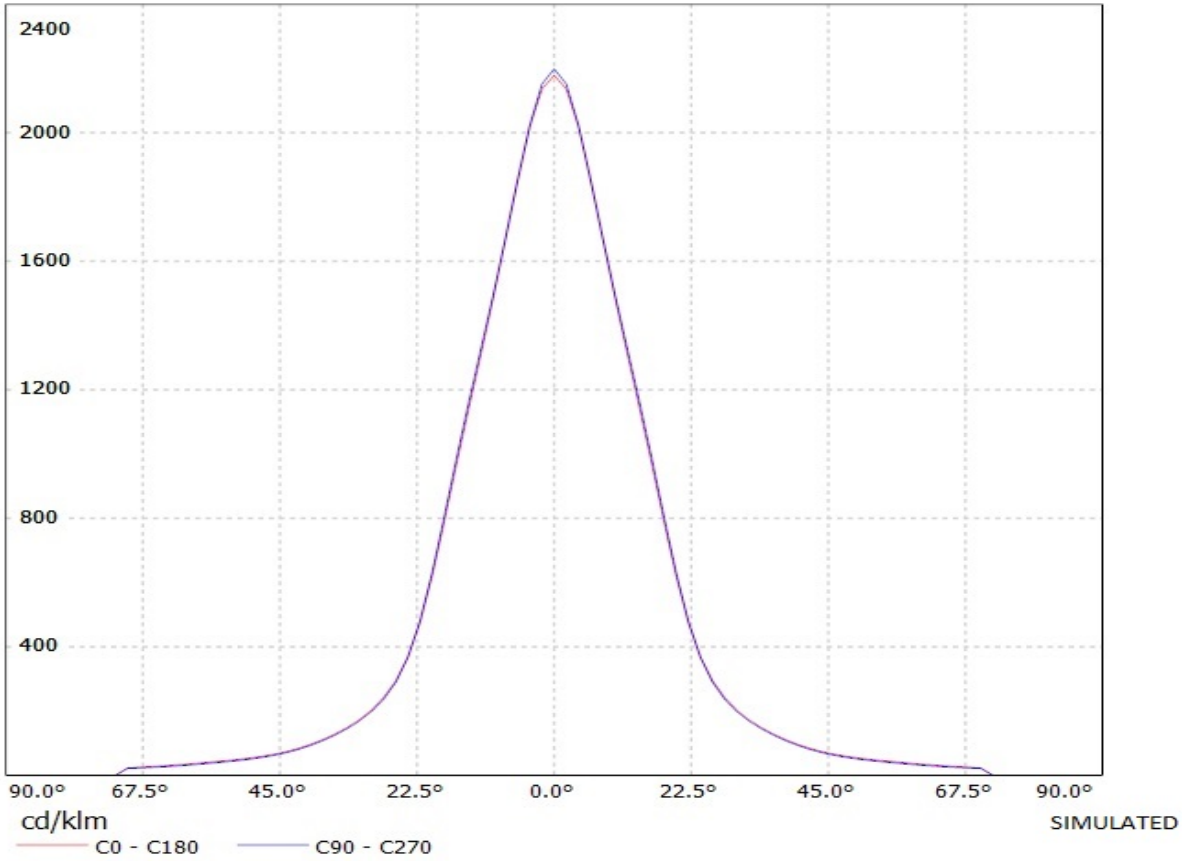
**Ledil Oy C11608-Anna-50-3-W-RE-ES C11608-Anna-50-3-W-RE-ES / LDC (Linear)**

Luminaire: Ledil Oy C11608-Anna-50-3-W-RE-ES C11608-Anna-50-3-W-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



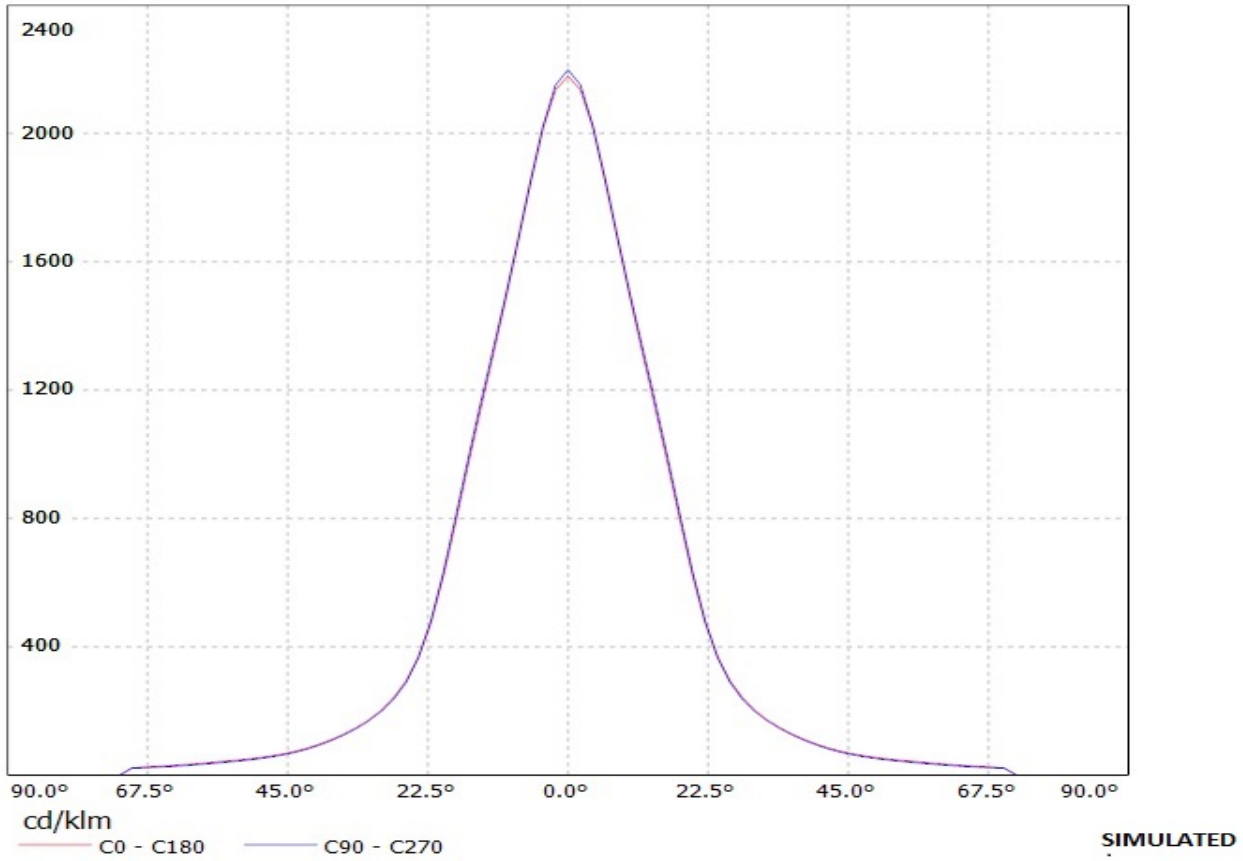
# Ledil Oy C11682-Anna-50-7-W-RE-ES C11682-Anna-50-7-W-RE-ES / LDC (Linear)

Luminaire: Ledil Oy C11682-Anna-50-7-W-RE-ES C11682-Anna-50-7-W-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



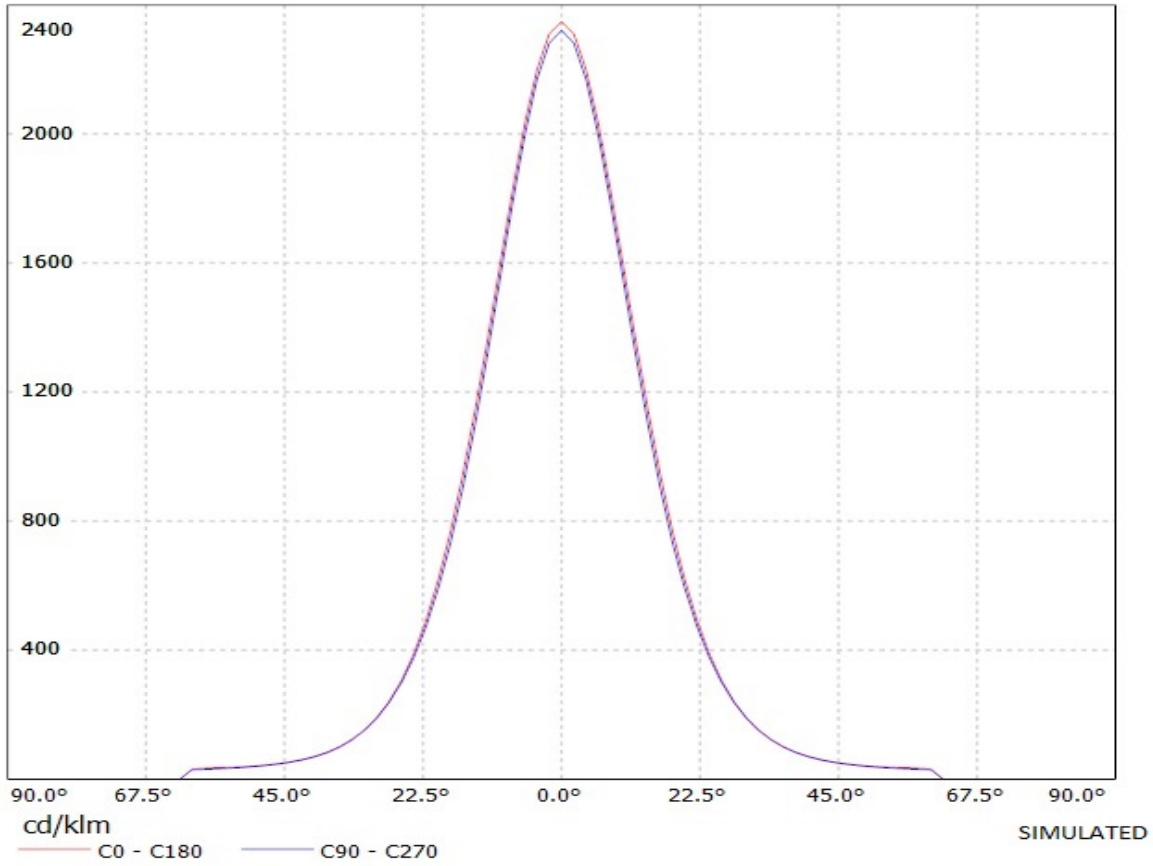
# Ledil Oy C11801-Anna-50-4-W-RE-ES C11801-Anna-50-4-W-RE-ES / LDC (Linear)

Luminaire: Ledil Oy C11801-Anna-50-4-W-RE-ES C11801-Anna-50-4-W-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



Ledil Oy C11812-Anna-50-6-M-RE-ES C11812-Anna-50-6-M-RE-ES / LDC (Linear)

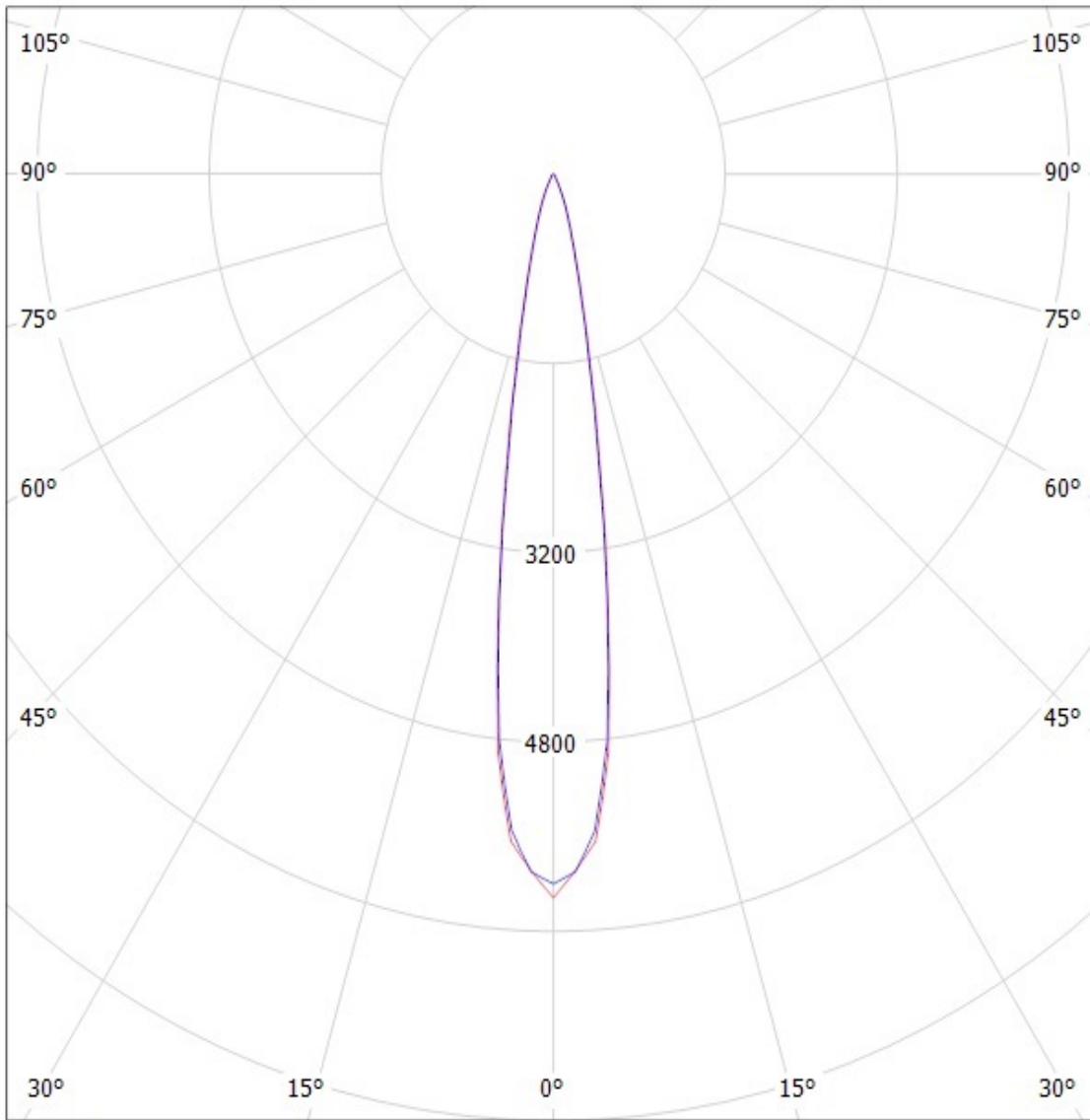
Luminaire: Ledil Oy C11812-Anna-50-6-M-RE-ES C11812-Anna-50-6-M-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



# Ledil Oy C11606-Anna-50-3-S-RE-ES C11606-Anna-50-3-S-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11606-Anna-50-3-S-RE-ES C11606-Anna-50-3-S-RE-ES

Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

— C0 - C180

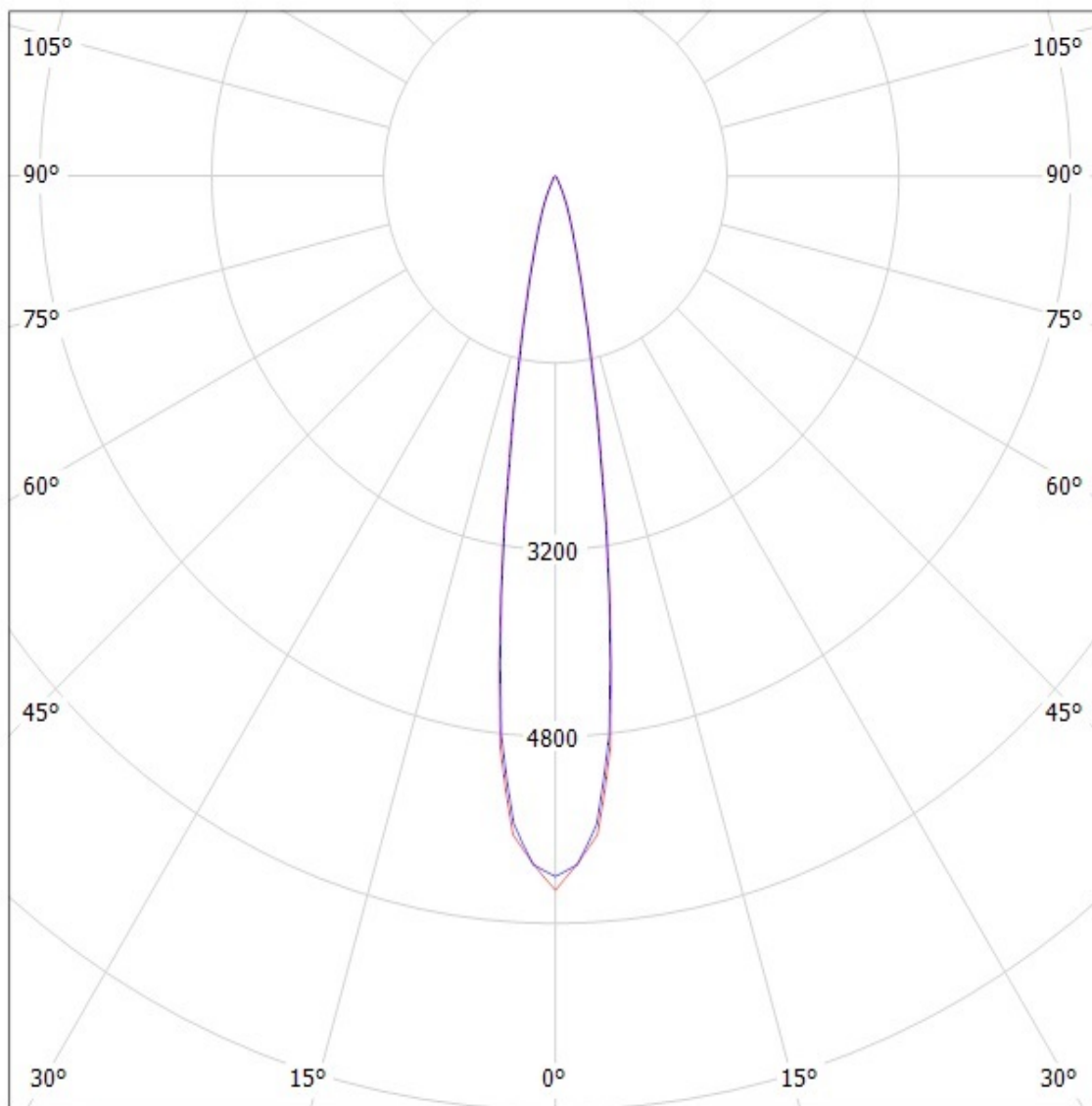
— C90 - C270

SIMULATED

# Ledil Oy C11612-Anna-50-5-S-RE-ES C11612-Anna-50-5-S-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11612-Anna-50-5-S-RE-ES C11612-Anna-50-5-S-RE-ES

Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

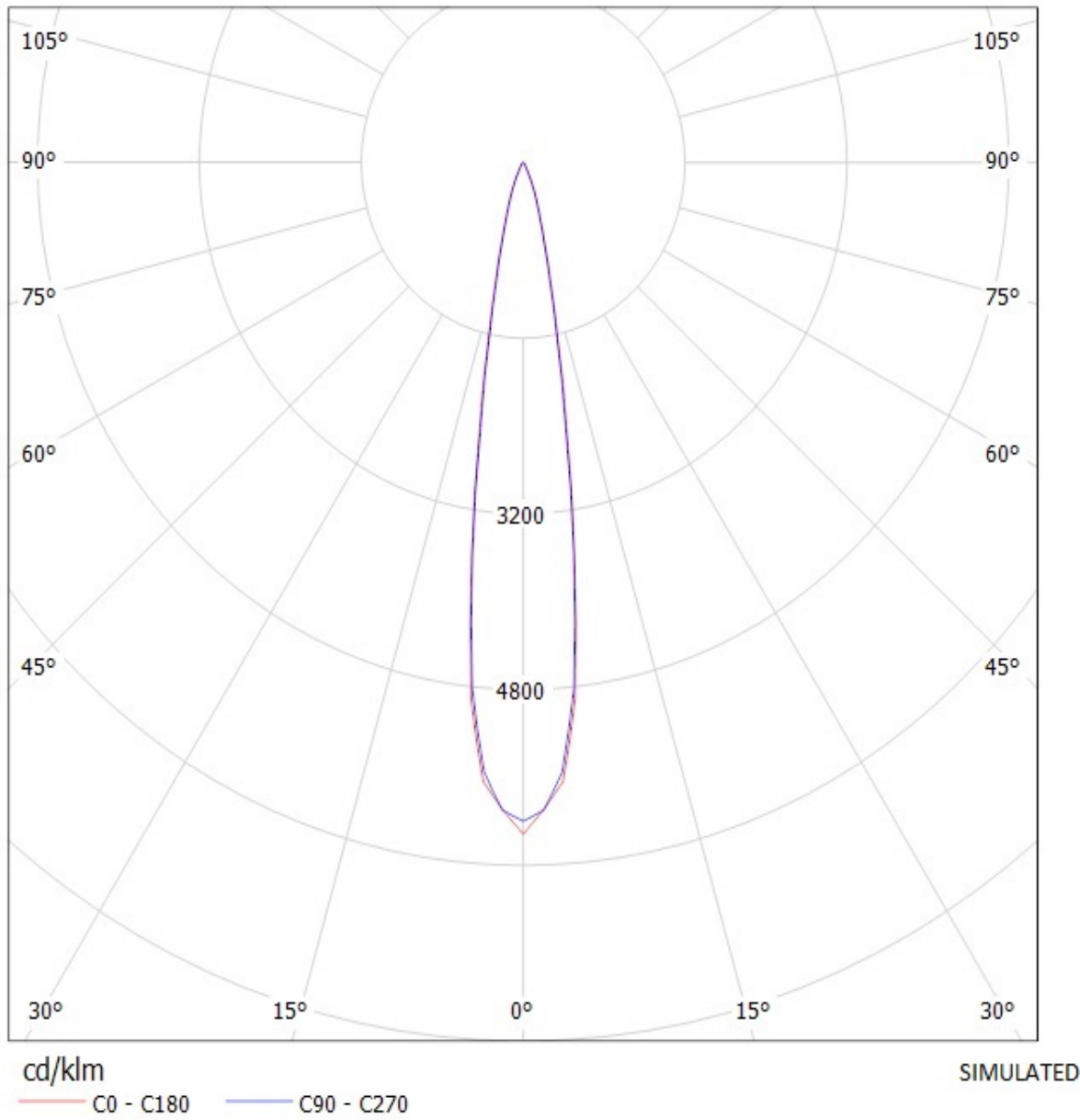
SIMULATED

— C0 - C180 — C90 - C270

# Ledil Oy C11670-Anna-50-7-S-RE-ES C11670-Anna-50-7-S-RE-ES / LDC (Polar)

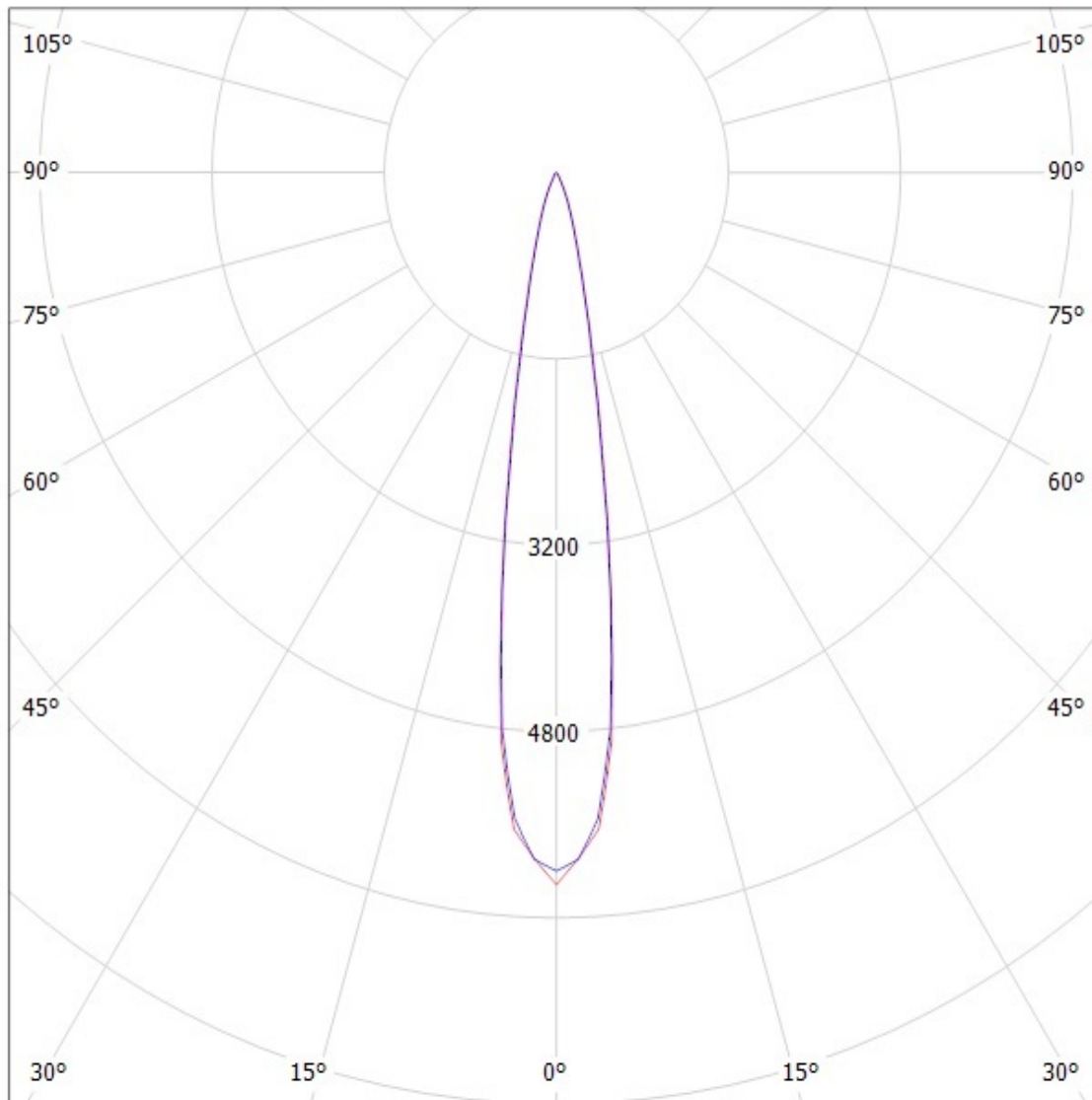
Luminaire: Ledil Oy C11670-Anna-50-7-S-RE-ES C11670-Anna-50-7-S-RE-ES

Lamps: 1 x Luxeon Rebel ES (white)



# Ledil Oy C11799-Anna-50-4-S-RE-ES C11799-Anna-50-4-S-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11799-Anna-50-4-S-RE-ES C11799-Anna-50-4-S-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

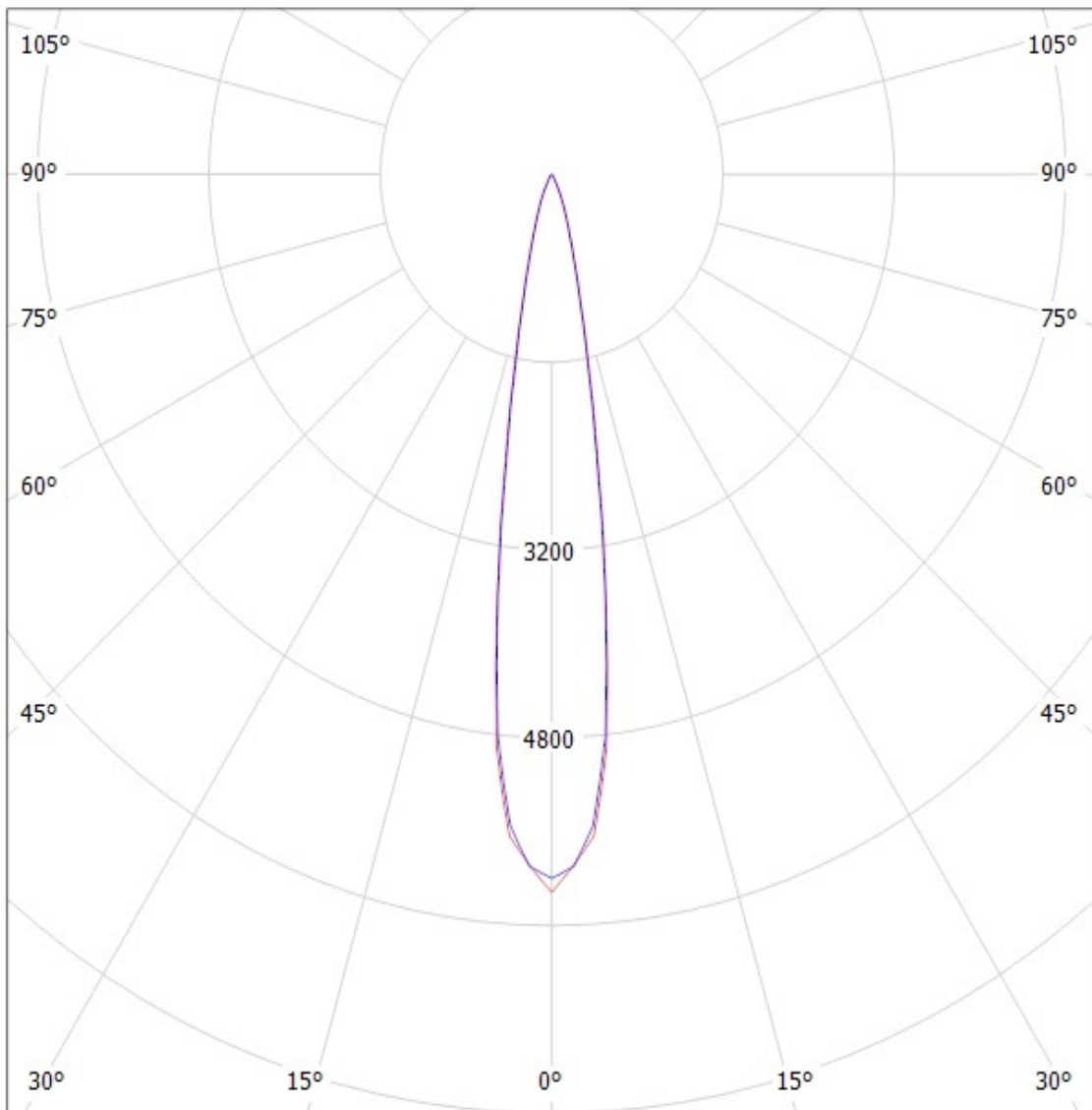
— C0 - C180 — C90 - C270

SIMULATED



# Ledil Oy C11811-Anna-50-6-S-RE-ES C11811-Anna-50-6-S-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11811-Anna-50-6-S-RE-ES C11811-Anna-50-6-S-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

— C0 - C180

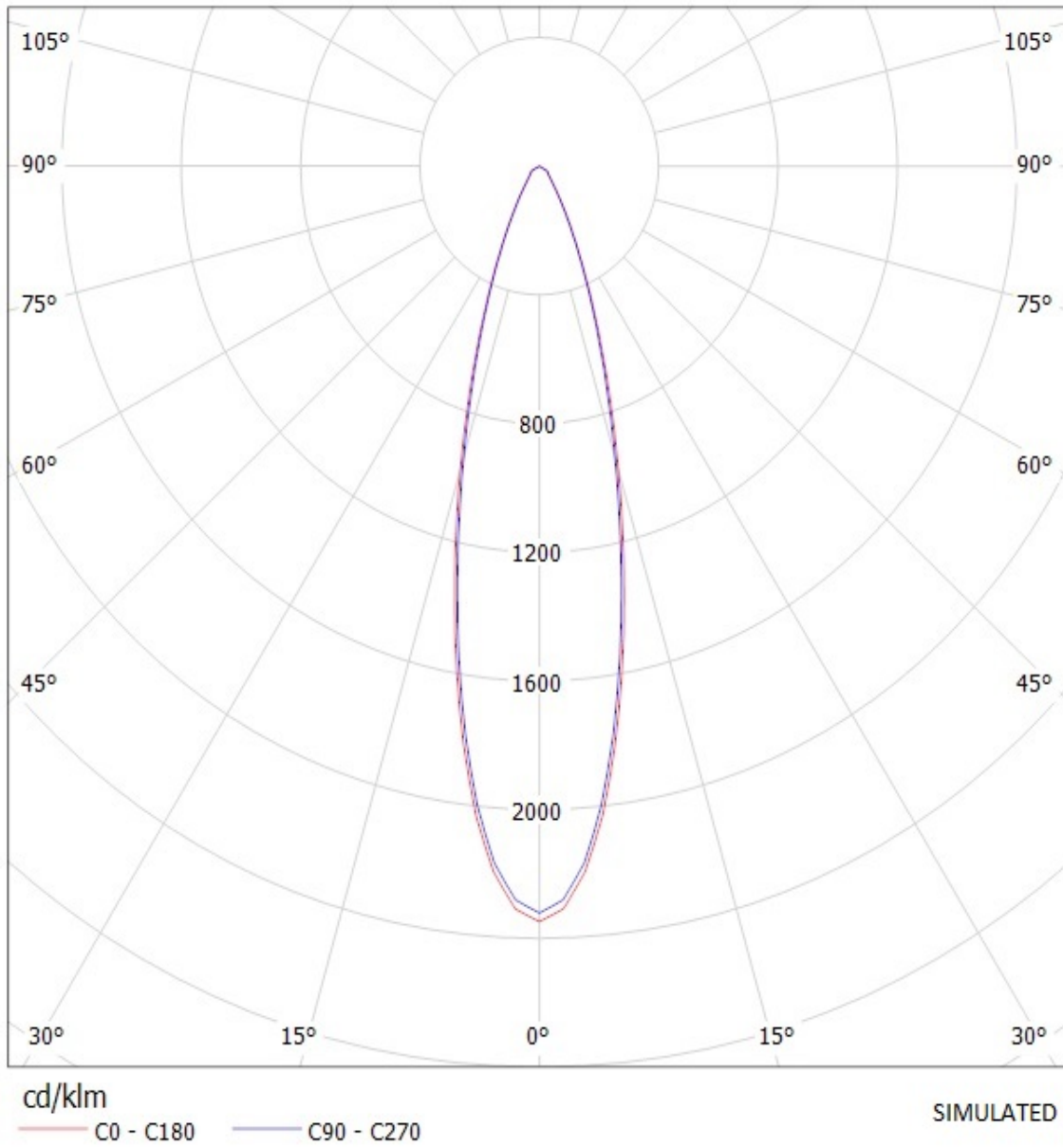
— C90 - C270

SIMULATED

# Ledil Oy C11607-Anna-50-3-M-RE-ES C11607-Anna-50-3-M-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11607-Anna-50-3-M-RE-ES C11607-Anna-50-3-M-RE-ES

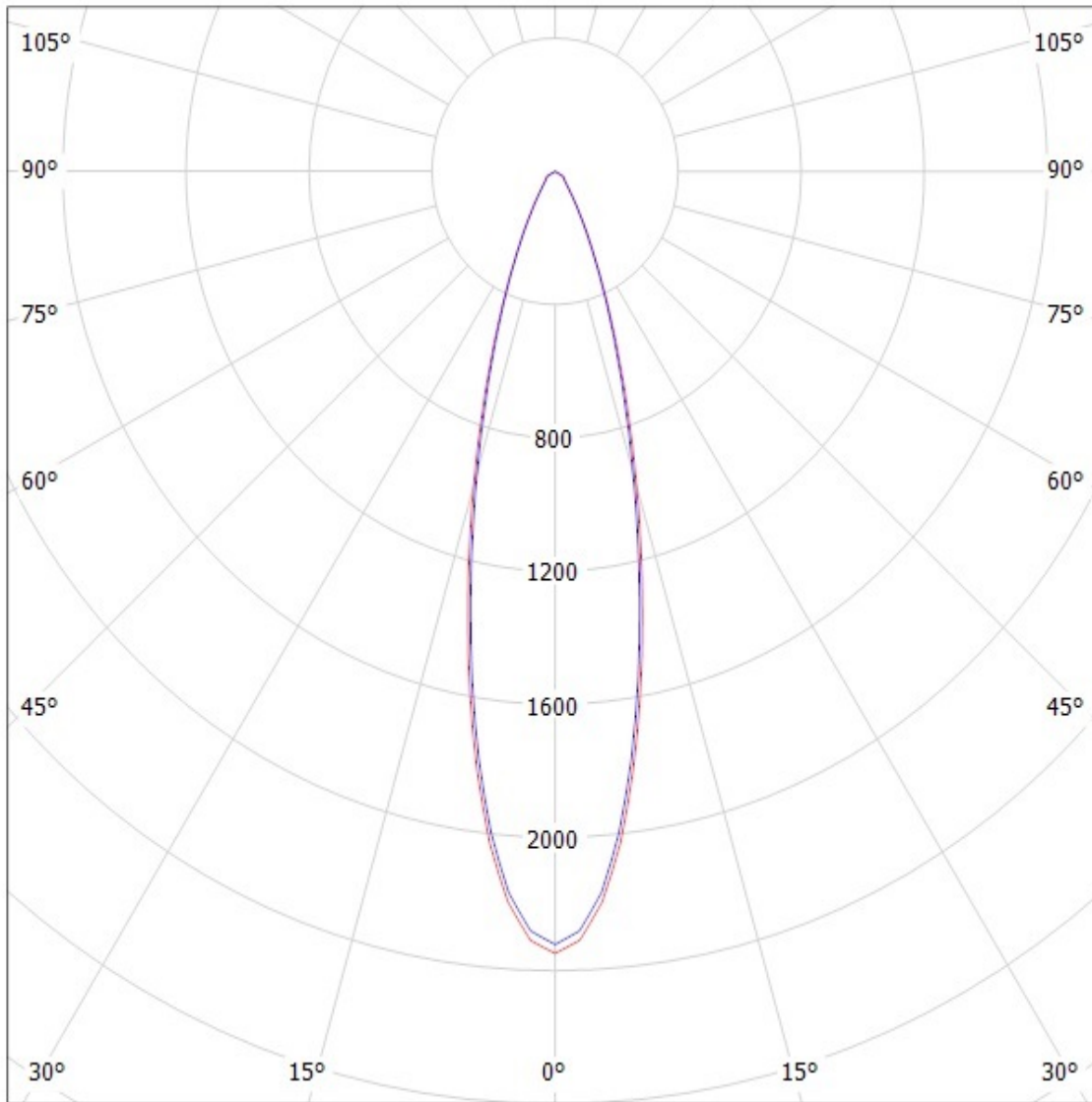
Lamps: 1 x Luxeon Rebel ES (white)



# Ledil Oy C11613-Anna-50-5-M-RE-ES C11613-Anna-50-5-M-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11613-Anna-50-5-M-RE-ES C11613-Anna-50-5-M-RE-ES

Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

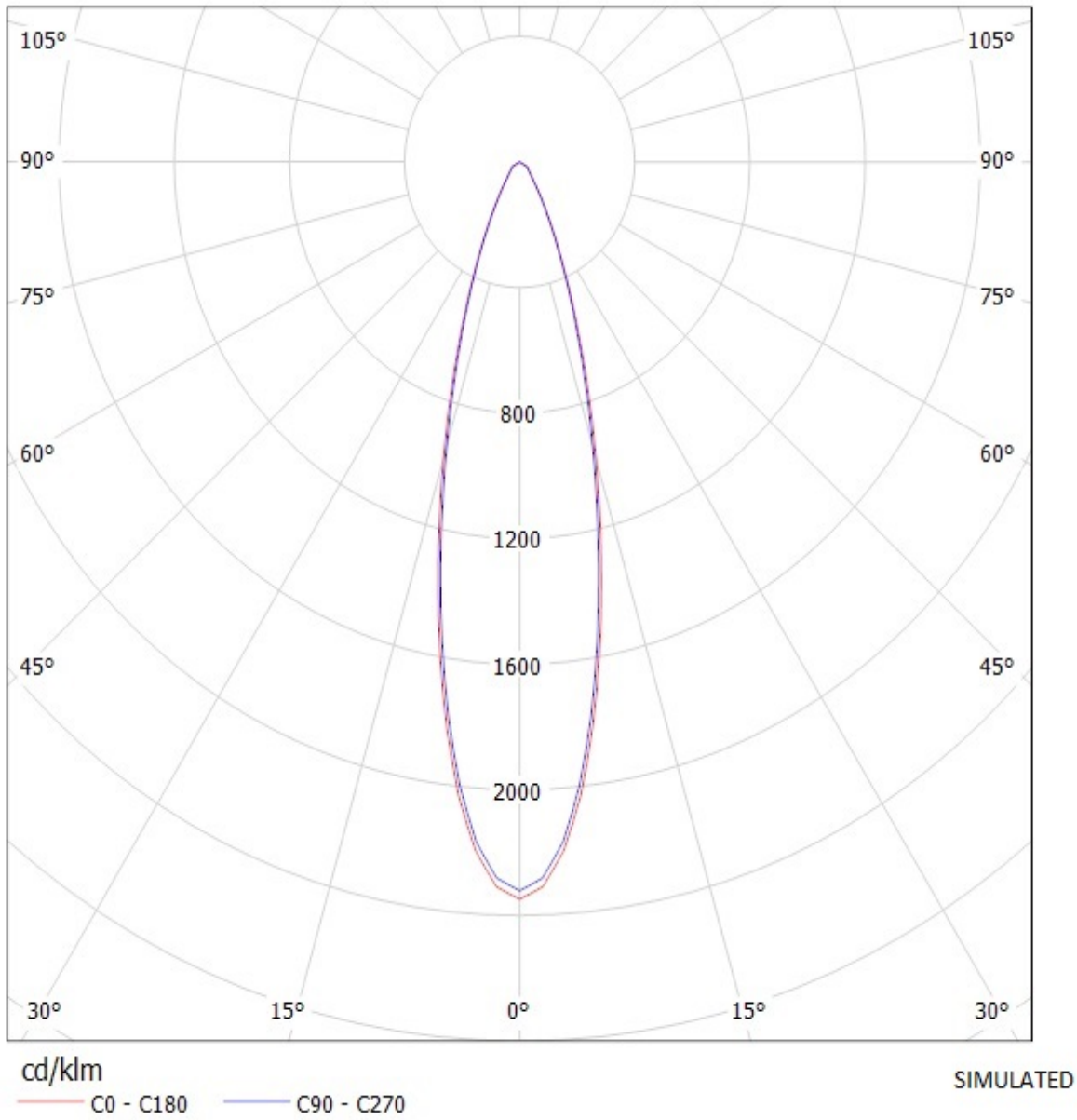
— C0 - C180

— C90 - C270

SIMULATED

# Ledil Oy C11679-Anna-50-7-M-RE-ES C11679-Anna-50-7-M-RE-ES / LDC (Polar)

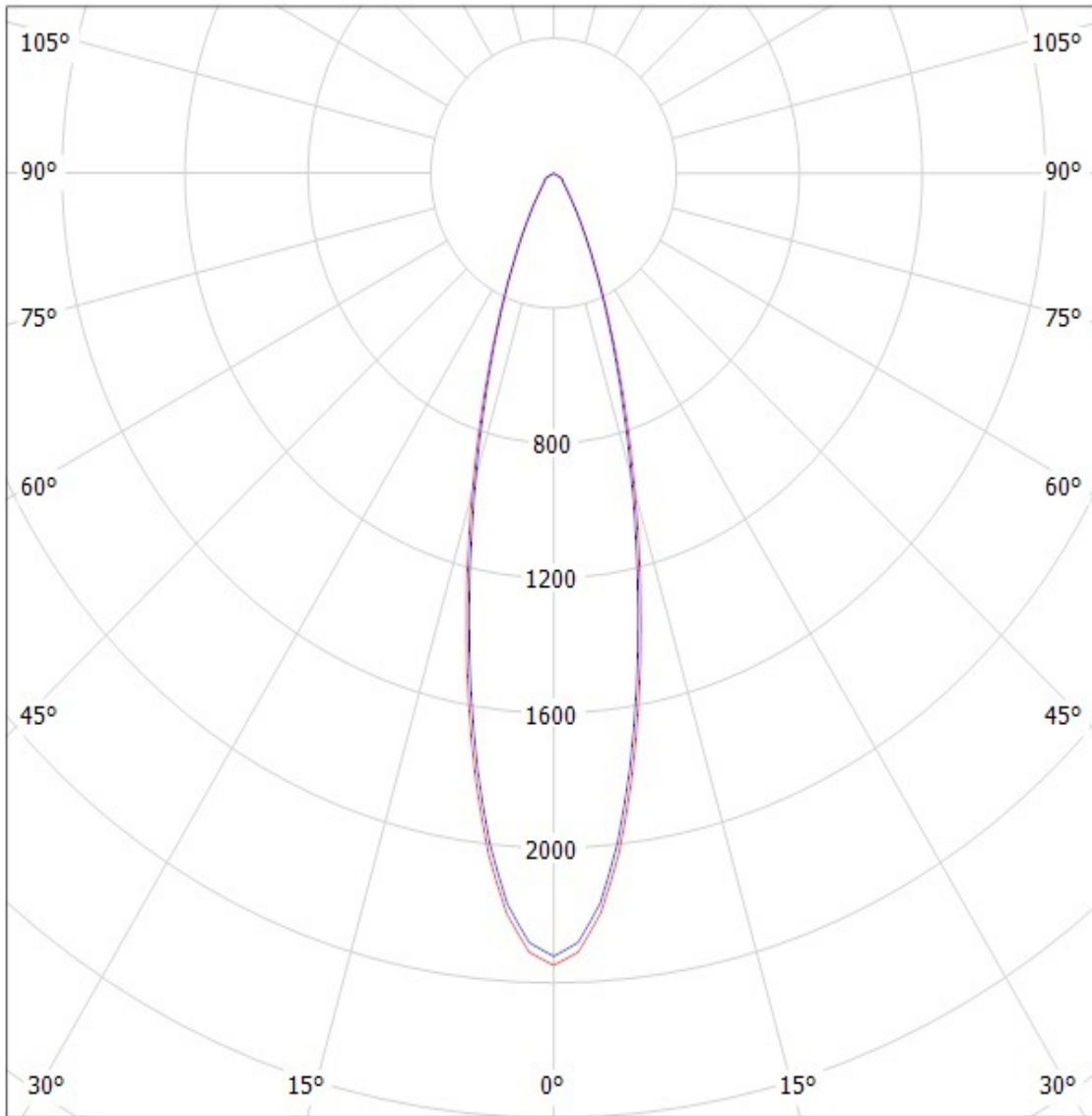
Luminaire: Ledil Oy C11679-Anna-50-7-M-RE-ES C11679-Anna-50-7-M-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



# Ledil Oy C11800-Anna-50-4-M-RE-ES C11800-Anna-50-4-M-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11800-Anna-50-4-M-RE-ES C11800-Anna-50-4-M-RE-ES

Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

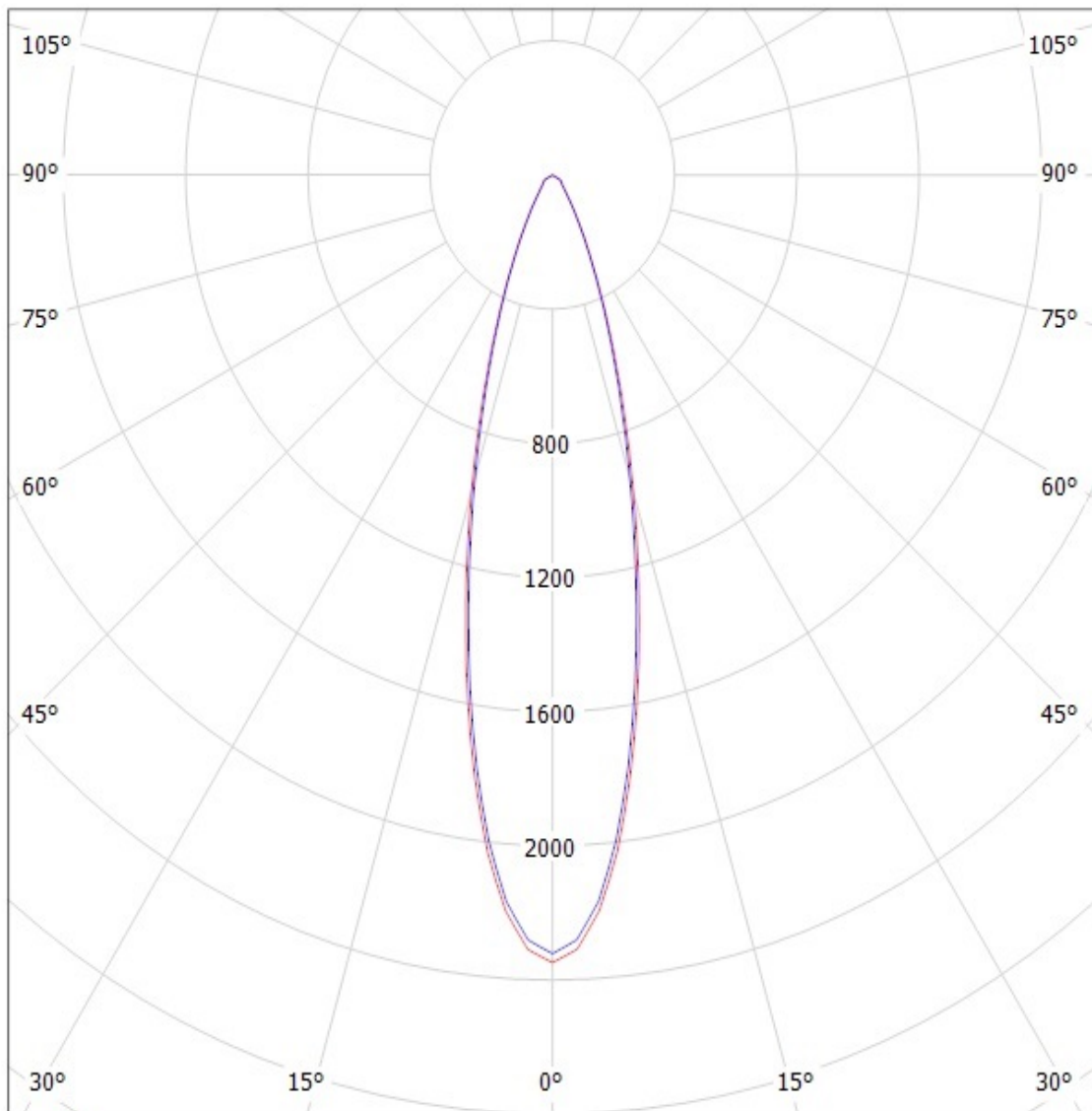
— C0 - C180 — C90 - C270

**SIMULATED**

# Ledil Oy C11812-Anna-50-6-M-RE-ES C11812-Anna-50-6-M-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11812-Anna-50-6-M-RE-ES C11812-Anna-50-6-M-RE-ES

Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

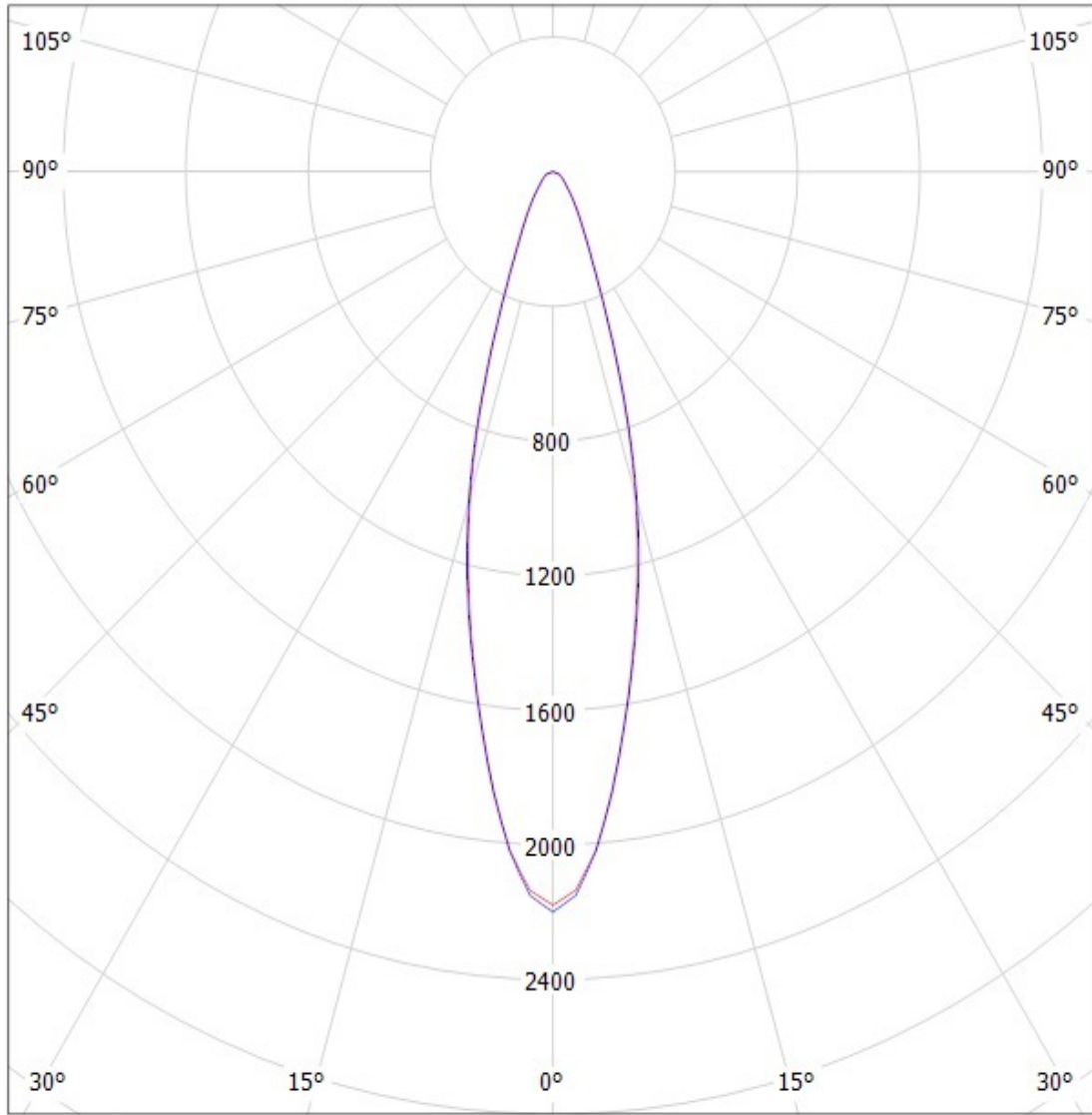
— C0 - C180

— C90 - C270

SIMULATED

# Ledil Oy C11608-Anna-50-3-W-RE-ES C11608-Anna-50-3-W-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11608-Anna-50-3-W-RE-ES C11608-Anna-50-3-W-RE-ES  
Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

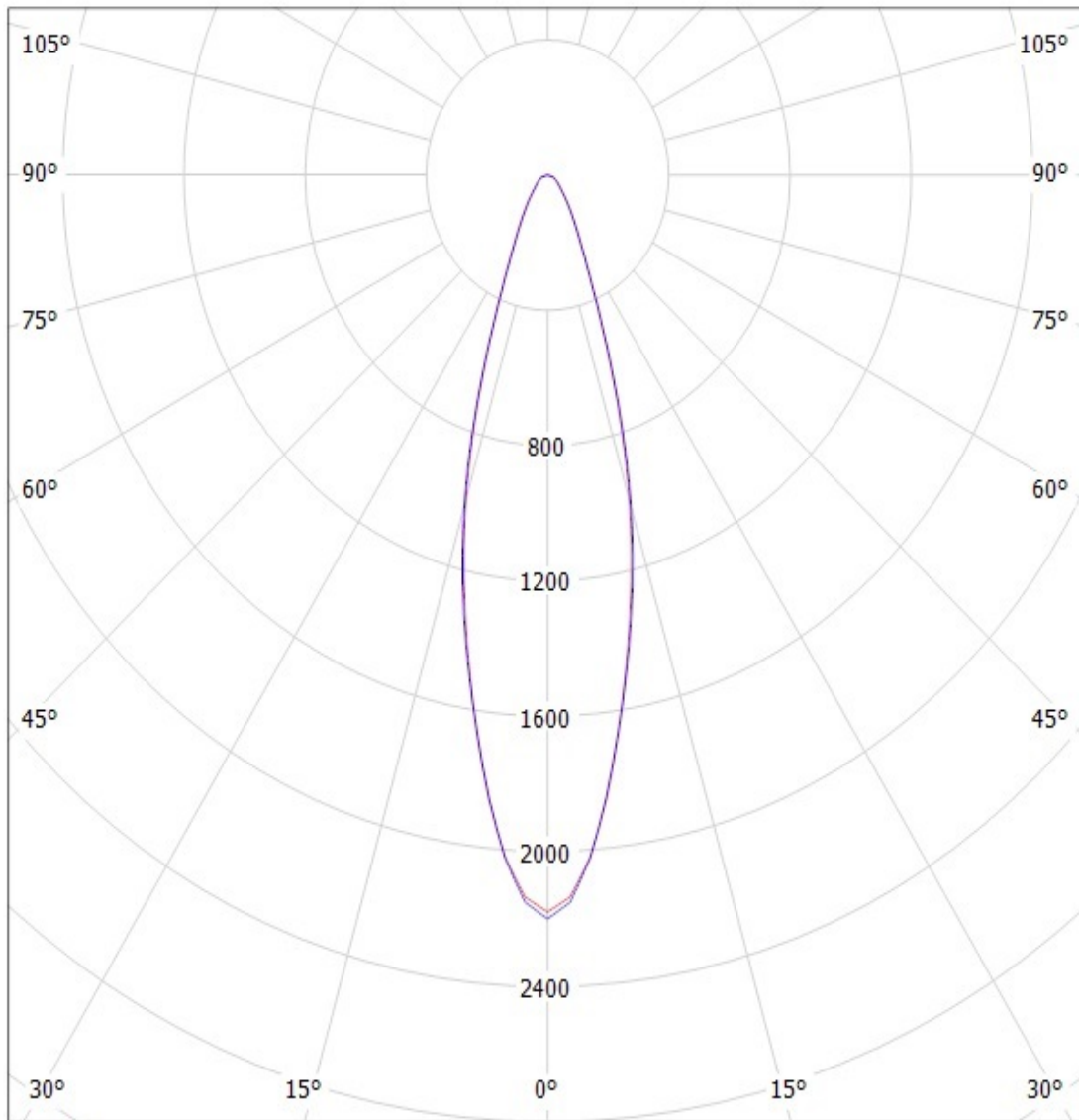
— C0 - C180 — C90 - C270

SIMULATED

# Ledil Oy C11682-Anna-50-7-W-RE-ES C11682-Anna-50-7-W-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11682-Anna-50-7-W-RE-ES C11682-Anna-50-7-W-RE-ES

Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

— C0 - C180 — C90 - C270

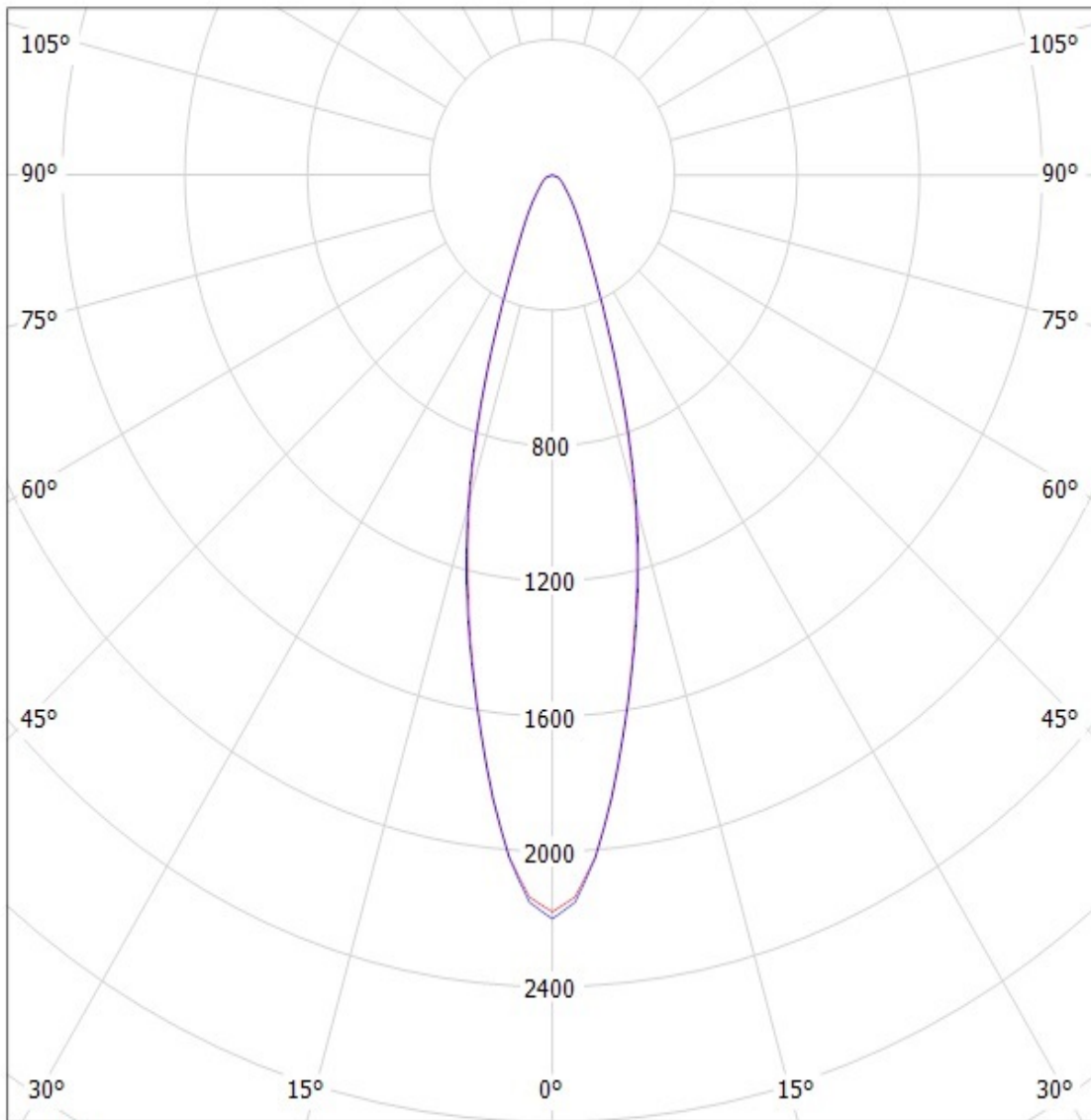
SIMULATED



# Ledil Oy C11801-Anna-50-4-W-RE-ES C11801-Anna-50-4-W-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11801-Anna-50-4-W-RE-ES C11801-Anna-50-4-W-RE-ES

Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

— C0 - C180

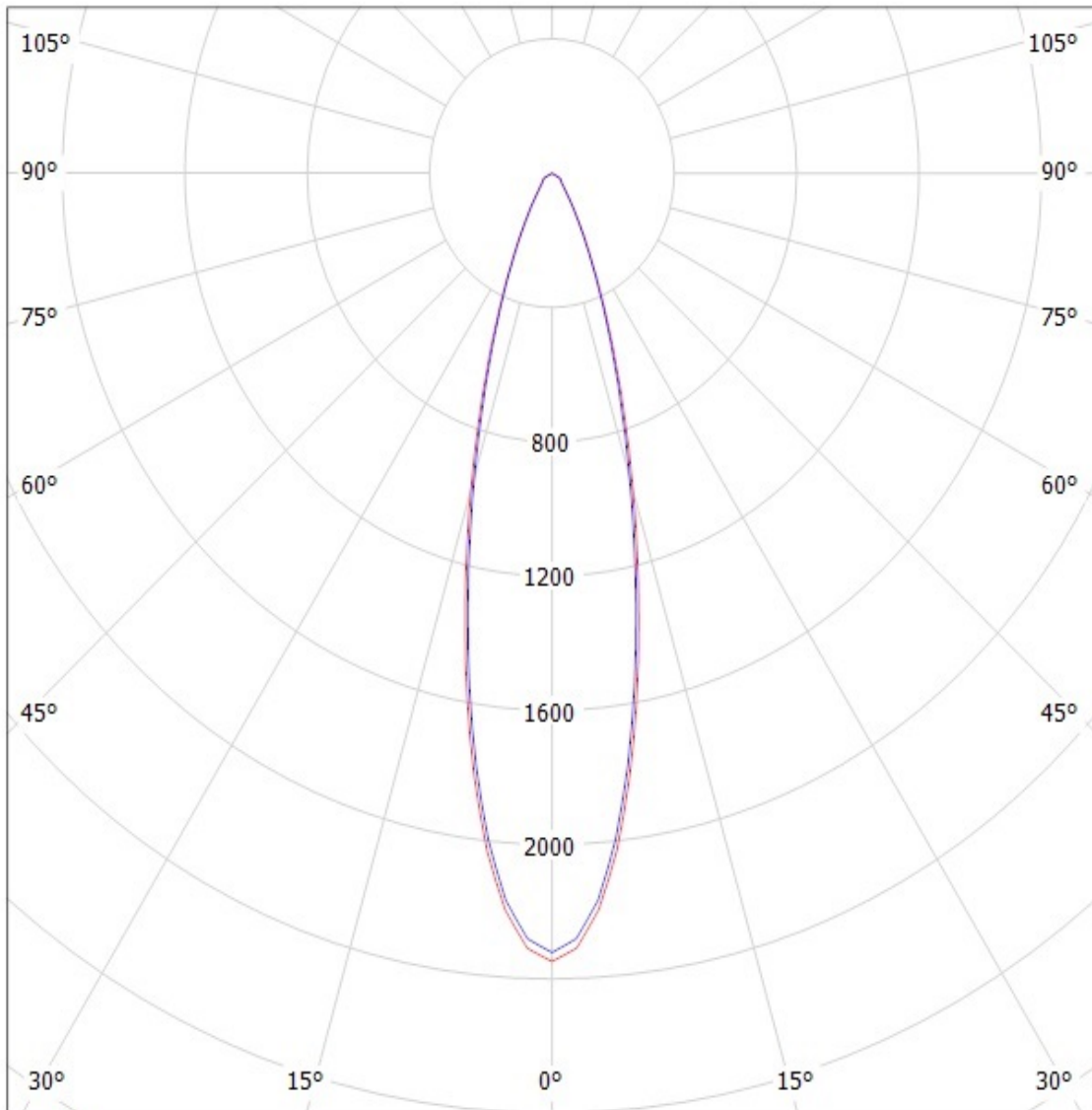
— C90 - C270

**SIMULATED**

# Ledil Oy C11812-Anna-50-6-M-RE-ES C11812-Anna-50-6-M-RE-ES / LDC (Polar)

Luminaire: Ledil Oy C11812-Anna-50-6-M-RE-ES C11812-Anna-50-6-M-RE-ES

Lamps: 1 x Luxeon Rebel ES (white)



cd/klm

— C0 - C180

— C90 - C270

SIMULATED