

**Ordering number C12041\_EVA-S**

|                 |         |             |            |
|-----------------|---------|-------------|------------|
| Family          | Eva     | FWHM        | 13 degrees |
| Type            | Lens    | Efficiency  | 94 %       |
| LED             | XM-L    | cd/Im       | -          |
| Color           | Clear   | Gerber File | Available  |
| Diameter        | 35 mm   |             |            |
| Height          | 16.4 mm |             |            |
| Style           | Round   |             |            |
| Optic Material  | PMMA    |             |            |
| Holder Material | -       |             |            |
| Fastening       | -       |             |            |
| Status          | Ready   |             |            |

Outer flange can be secured in fixture for hardware-free attachment

**Ordering number CA12055\_EVA-S**

|                 |             |             |            |
|-----------------|-------------|-------------|------------|
| Family          | Eva         | FWHM        | 13 degrees |
| Type            | Assembly    | Efficiency  | 92 %       |
| LED             | XM-L        | cd/Im       | -          |
| Color           | Black       | Gerber File | Available  |
| Diameter        | 37.7 mm     |             |            |
| Height          | 17.2 mm     |             |            |
| Style           | Round       |             |            |
| Optic Material  | PMMA        |             |            |
| Holder Material | PC          |             |            |
| Fastening       | Screw, tape |             |            |
| Status          | Ready       |             |            |

**Ordering number CP12196\_EVA-S**

|                 |             |             |            |
|-----------------|-------------|-------------|------------|
| Family          | Eva         | FWHM        | 13 degrees |
| Type            | Assembly    | Efficiency  | 94 %       |
| LED             | XM-L        | cd/Im       | -          |
| Color           | Black       | Gerber File | Available  |
| Diameter        | 37.7 mm     |             |            |
| Height          | 17 mm       |             |            |
| Style           | Round       |             |            |
| Optic Material  | PMMA        |             |            |
| Holder Material | PC          |             |            |
| Fastening       | Screw, glue |             |            |
| Status          | Ready       |             |            |

**Ordering number C12828\_EVA-O**

|                 |         |             |                 |
|-----------------|---------|-------------|-----------------|
| Family          | Eva     | FWHM        | 15.5+39 degrees |
| Type            | Lens    | Efficiency  | 86 %            |
| LED             | XM-L    | cd/Im       | 3.300           |
| Color           | Clear   | Gerber File | Available       |
| Diameter        | 35 mm   |             |                 |
| Height          | 16.4 mm |             |                 |
| Style           | Round   |             |                 |
| Optic Material  | PMMA    |             |                 |
| Holder Material | -       |             |                 |
| Fastening       | -       |             |                 |
| Status          | Ready   |             |                 |

**Ordering number CA12859\_EVA-O**

|                 |          |             |                 |
|-----------------|----------|-------------|-----------------|
| Family          | Eva      | FWHM        | 15.5+39 degrees |
| Type            | Assembly | Efficiency  | 86 %            |
| LED             | XM-L     | cd/Im       | 3.300           |
| Color           | Black    | Gerber File | Available       |
| Diameter        | 37.7 mm  |             |                 |
| Height          | 17.2 mm  |             |                 |
| Style           | Round    |             |                 |
| Optic Material  | PMMA     |             |                 |
| Holder Material | PC       |             |                 |
| Fastening       | Tape     |             |                 |
| Status          | Ready    |             |                 |

**Ordering number CP12860\_EVA-O**

|                 |          |             |                 |
|-----------------|----------|-------------|-----------------|
| Family          | Eva      | FWHM        | 15.5+39 degrees |
| Type            | Assembly | Efficiency  | 86 %            |
| LED             | XM-L     | cd/Im       | 3.300           |
| Color           | Black    | Gerber File | Available       |
| Diameter        | 37.7 mm  |             |                 |
| Height          | 17 mm    |             |                 |
| Style           | Round    |             |                 |
| Optic Material  | PMMA     |             |                 |
| Holder Material | PC       |             |                 |
| Fastening       | Screw    |             |                 |
| Status          | Ready    |             |                 |

**Ordering number C10684\_EVA-D**

|                 |         |             |            |
|-----------------|---------|-------------|------------|
| Family          | Eva     | FWHM        | 16 degrees |
| Type            | Lens    | Efficiency  | 91 %       |
| LED             | XM-L    | cd/Im       | -          |
| Color           | Clear   | Gerber File | Available  |
| Diameter        | 35 mm   |             |            |
| Height          | 16.4 mm |             |            |
| Style           | Round   |             |            |
| Optic Material  | PMMA    |             |            |
| Holder Material | -       |             |            |
| Fastening       | -       |             |            |
| Status          | Ready   |             |            |

Outer flange can be secured in fixture for hardware-free attachment

**Ordering number CA12057\_EVA-D**

|                 |             |             |            |
|-----------------|-------------|-------------|------------|
| Family          | Eva         | FWHM        | 16 degrees |
| Type            | Assembly    | Efficiency  | 90 %       |
| LED             | XM-L        | cd/Im       | -          |
| Color           | Black       | Gerber File | Available  |
| Diameter        | 37.7 mm     |             |            |
| Height          | 17.2 mm     |             |            |
| Style           | Round       |             |            |
| Optic Material  | PMMA        |             |            |
| Holder Material | PC          |             |            |
| Fastening       | Screw, tape |             |            |
| Status          | Ready       |             |            |

**Ordering number CP12197\_EVA-D**

|                 |             |             |            |
|-----------------|-------------|-------------|------------|
| Family          | Eva         | FWHM        | 20 degrees |
| Type            | Assembly    | Efficiency  | 91 %       |
| LED             | XM-L        | cd/Im       | -          |
| Color           | Black       | Gerber File | Available  |
| Diameter        | 37.7 mm     |             |            |
| Height          | 17 mm       |             |            |
| Style           | Round       |             |            |
| Optic Material  | PMMA        |             |            |
| Holder Material | PC          |             |            |
| Fastening       | Screw, glue |             |            |
| Status          | Ready       |             |            |

**Ordering number C10685\_EVA-M**

|                 |         |             |            |
|-----------------|---------|-------------|------------|
| Family          | Eva     | FWHM        | 24 degrees |
| Type            | Lens    | Efficiency  | 88 %       |
| LED             | XM-L    | cd/Im       | -          |
| Color           | Clear   | Gerber File | Available  |
| Diameter        | 35 mm   |             |            |
| Height          | 16.4 mm |             |            |
| Style           | Round   |             |            |
| Optic Material  | PMMA    |             |            |
| Holder Material | -       |             |            |
| Fastening       | -       |             |            |
| Status          | Ready   |             |            |

Outer flange can be secured in fixture for hardware-free attachment

**Ordering number CA12058\_EVA-M**

|                 |             |             |            |
|-----------------|-------------|-------------|------------|
| Family          | Eva         | FWHM        | 24 degrees |
| Type            | Assembly    | Efficiency  | 89 %       |
| LED             | XM-L        | cd/Im       | -          |
| Color           | Black       | Gerber File | Available  |
| Diameter        | 37.7 mm     |             |            |
| Height          | 17.2 mm     |             |            |
| Style           | Round       |             |            |
| Optic Material  | PMMA        |             |            |
| Holder Material | PC          |             |            |
| Fastening       | Screw, tape |             |            |
| Status          | Ready       |             |            |

**Ordering number CP12198\_EVA-M**

|                 |             |             |            |
|-----------------|-------------|-------------|------------|
| Family          | Eva         | FWHM        | 24 degrees |
| Type            | Assembly    | Efficiency  | 88 %       |
| LED             | XM-L        | cd/Im       | -          |
| Color           | Black       | Gerber File | Available  |
| Diameter        | 37.7 mm     |             |            |
| Height          | 17 mm       |             |            |
| Style           | Round       |             |            |
| Optic Material  | PMMA        |             |            |
| Holder Material | PC          |             |            |
| Fastening       | Screw, glue |             |            |
| Status          | Ready       |             |            |

**Ordering number C10686\_EVA-W**

|                 |         |             |            |
|-----------------|---------|-------------|------------|
| Family          | Eva     | FWHM        | 40 degrees |
| Type            | Lens    | Efficiency  | 79 %       |
| LED             | XM-L    | cd/Im       | -          |
| Color           | Clear   | Gerber File | Available  |
| Diameter        | 35 mm   |             |            |
| Height          | 16.4 mm |             |            |
| Style           | Round   |             |            |
| Optic Material  | PMMA    |             |            |
| Holder Material | -       |             |            |
| Fastening       | -       |             |            |
| Status          | Ready   |             |            |

Outer flange can be secured in fixture for hardware-free attachment

**Ordering number CA12059\_EVA-W**

|                 |             |             |            |
|-----------------|-------------|-------------|------------|
| Family          | Eva         | FWHM        | 40 degrees |
| Type            | Assembly    | Efficiency  | 83 %       |
| LED             | XM-L        | cd/Im       | -          |
| Color           | Black       | Gerber File | Available  |
| Diameter        | 37.7 mm     |             |            |
| Height          | 17.2 mm     |             |            |
| Style           | Round       |             |            |
| Optic Material  | PMMA        |             |            |
| Holder Material | PC          |             |            |
| Fastening       | Screw, tape |             |            |
| Status          | Ready       |             |            |

**Ordering number CP12199\_EVA-W**

|                 |             |             |            |
|-----------------|-------------|-------------|------------|
| Family          | Eva         | FWHM        | 40 degrees |
| Type            | Assembly    | Efficiency  | 79 %       |
| LED             | XM-L        | cd/Im       | -          |
| Color           | Black       | Gerber File | Available  |
| Diameter        | 37.7 mm     |             |            |
| Height          | 17 mm       |             |            |
| Style           | Round       |             |            |
| Optic Material  | PMMA        |             |            |
| Holder Material | PC          |             |            |
| Fastening       | Screw, glue |             |            |
| Status          | Ready       |             |            |

**Ordering number C10909\_EVA-WW**

|                 |         |             |            |
|-----------------|---------|-------------|------------|
| Family          | Eva     | FWHM        | 64 degrees |
| Type            | Lens    | Efficiency  | 77 %       |
| LED             | XM-L    | cd/Im       | -          |
| Color           | Clear   | Gerber File | Available  |
| Diameter        | 35 mm   |             |            |
| Height          | 16.4 mm |             |            |
| Style           | Round   |             |            |
| Optic Material  | PMMA    |             |            |
| Holder Material | -       |             |            |
| Fastening       | -       |             |            |
| Status          | Ready   |             |            |

Outer flange can be secured in fixture for hardware-free attachment

**Ordering number CA12060\_EVA-WW**

|                 |             |             |            |
|-----------------|-------------|-------------|------------|
| Family          | Eva         | FWHM        | 64 degrees |
| Type            | Assembly    | Efficiency  | 79 %       |
| LED             | XM-L        | cd/Im       | -          |
| Color           | Black       | Gerber File | Available  |
| Diameter        | 37.7 mm     |             |            |
| Height          | 17.2 mm     |             |            |
| Style           | Round       |             |            |
| Optic Material  | PMMA        |             |            |
| Holder Material | PC          |             |            |
| Fastening       | Screw, tape |             |            |
| Status          | Ready       |             |            |

**Ordering number CP12200\_EVA-WW**

|                 |             |             |            |
|-----------------|-------------|-------------|------------|
| Family          | Eva         | FWHM        | 64 degrees |
| Type            | Assembly    | Efficiency  | 77 %       |
| LED             | XM-L        | cd/Im       | -          |
| Color           | Black       | Gerber File | Available  |
| Diameter        | 37.7 mm     |             |            |
| Height          | 17 mm       |             |            |
| Style           | Round       |             |            |
| Optic Material  | PMMA        |             |            |
| Holder Material | PC          |             |            |
| Fastening       | Screw, glue |             |            |
| Status          | 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

### Eva series

last update 20/12/2012

#### GENERAL INFORMATION

- Product series especially designed & optimized for XM-L 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.

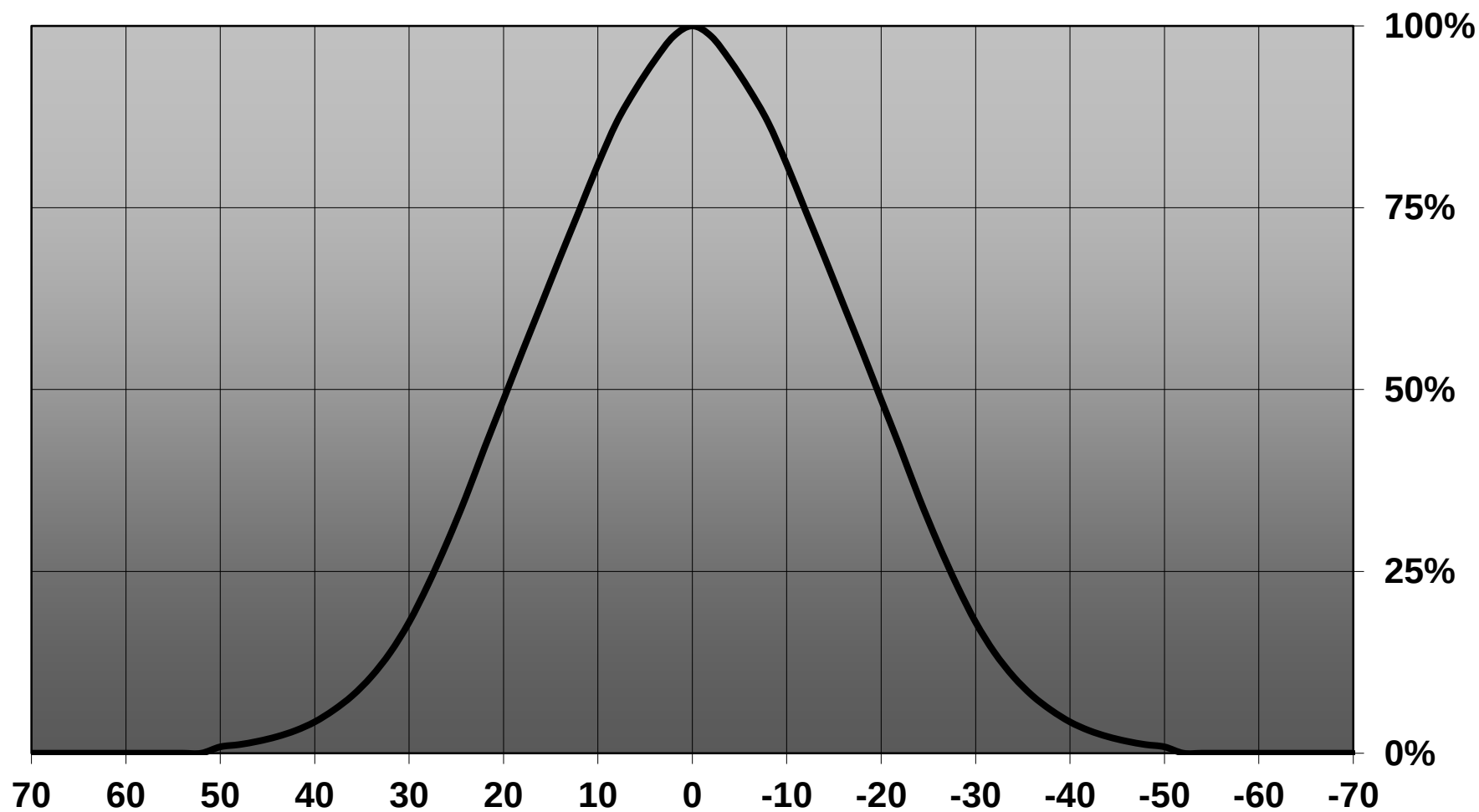
Please find more information about used material from below:

[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>

- Optic holder molded by high quality PC material (120 degrees of Celcius / 248 degrees of Fahrenheit).

Relative intensity of CA12059\_Eva-W-XM-Tape



4

3

2

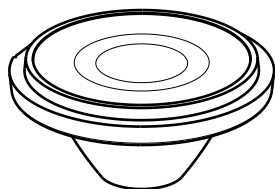
1

D

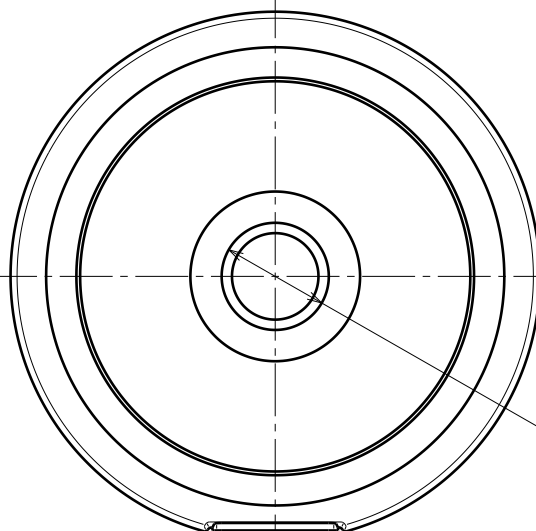
C

B

A



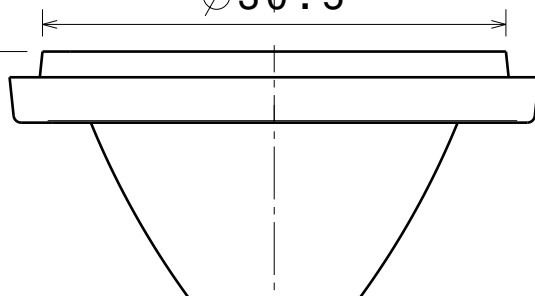
Isometric view



Bottom view

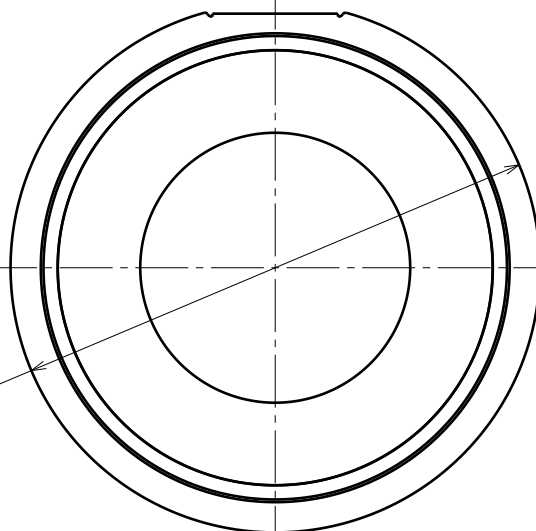
Ø 6.8

Ø 30.5



Side view

16.4



Top view

Ø 35

Tolerances if not otherwise shown:  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class F, otherwise class M.

According to DIN ISO 2768-2  
Form and position:  
class K

Raw material(s):  
PMMA 8N

This drawing is our property.  
It can't be reproduced  
or communicated without  
our written agreement.



Ledil Oy  
Salorankatu 10  
24100 SALO  
Finland

DRAWING TITLE

Datasheet Eva Spot Lens

DRAWN BY  
ah

DATE  
1.3.2013

CHECKED BY

DATE

SIZE  
A4

DRAWING NUMBER

C12041

REV  
1

DESIGNED BY  
HH

DATE  
26.08.2008

SCALE

2:1

WEIGHT (g)

SHEET

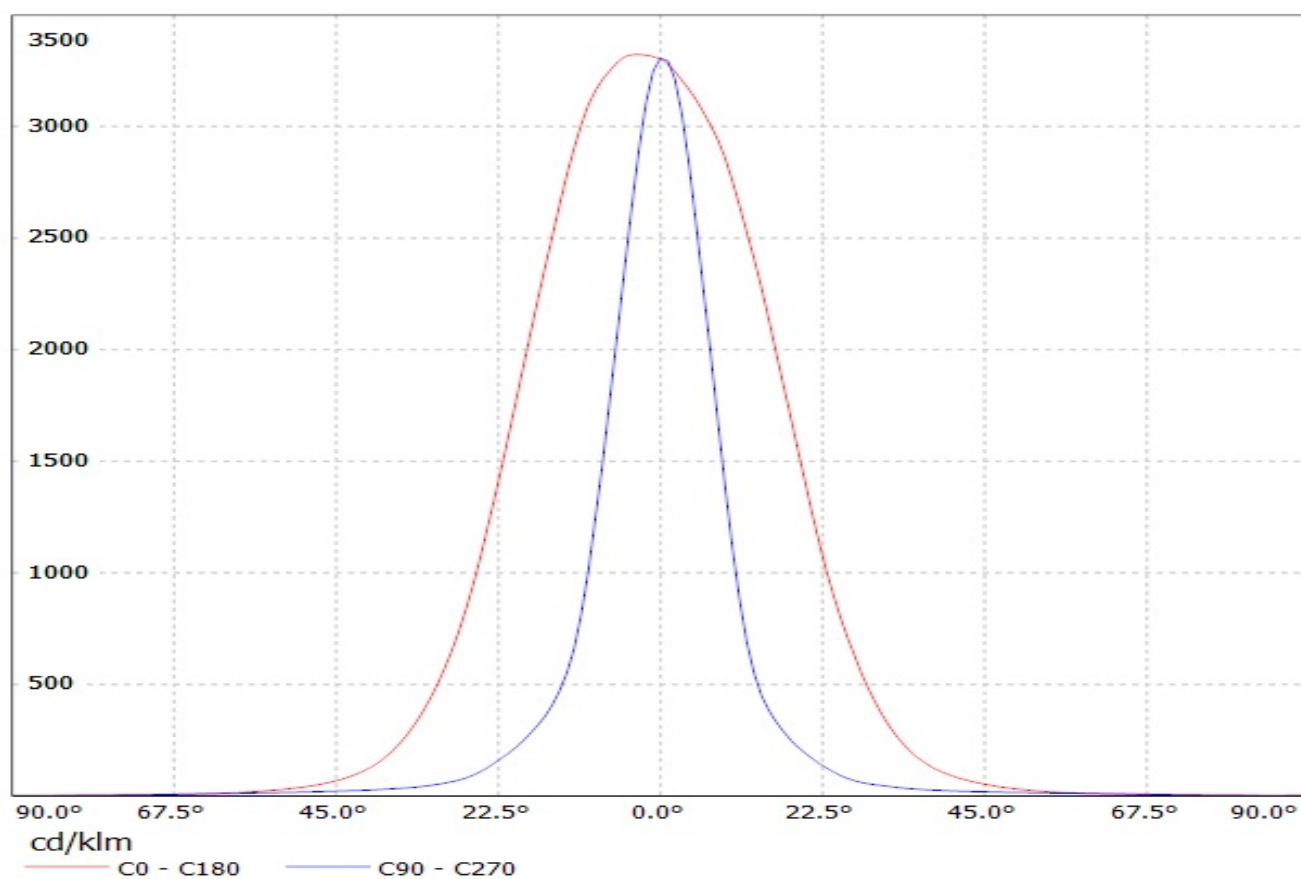
1/1

D

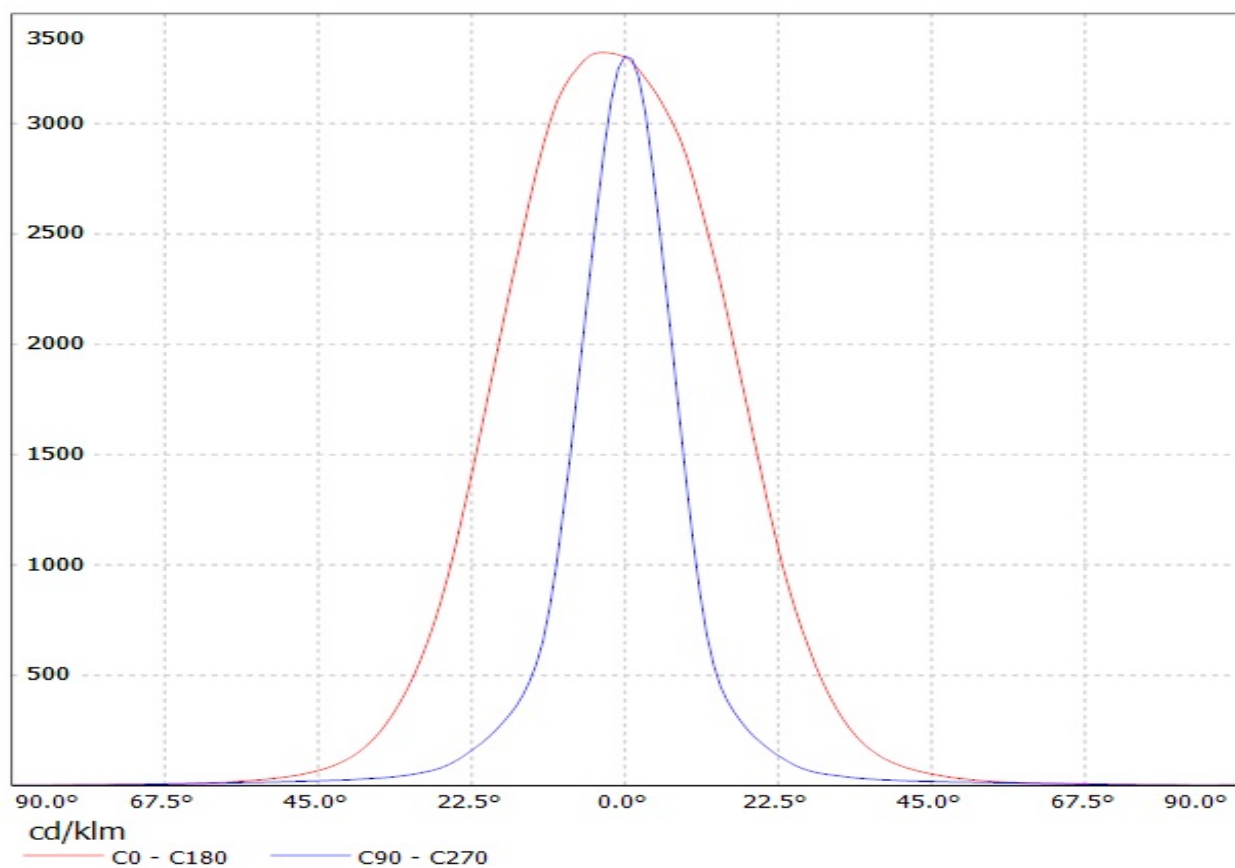
A

1

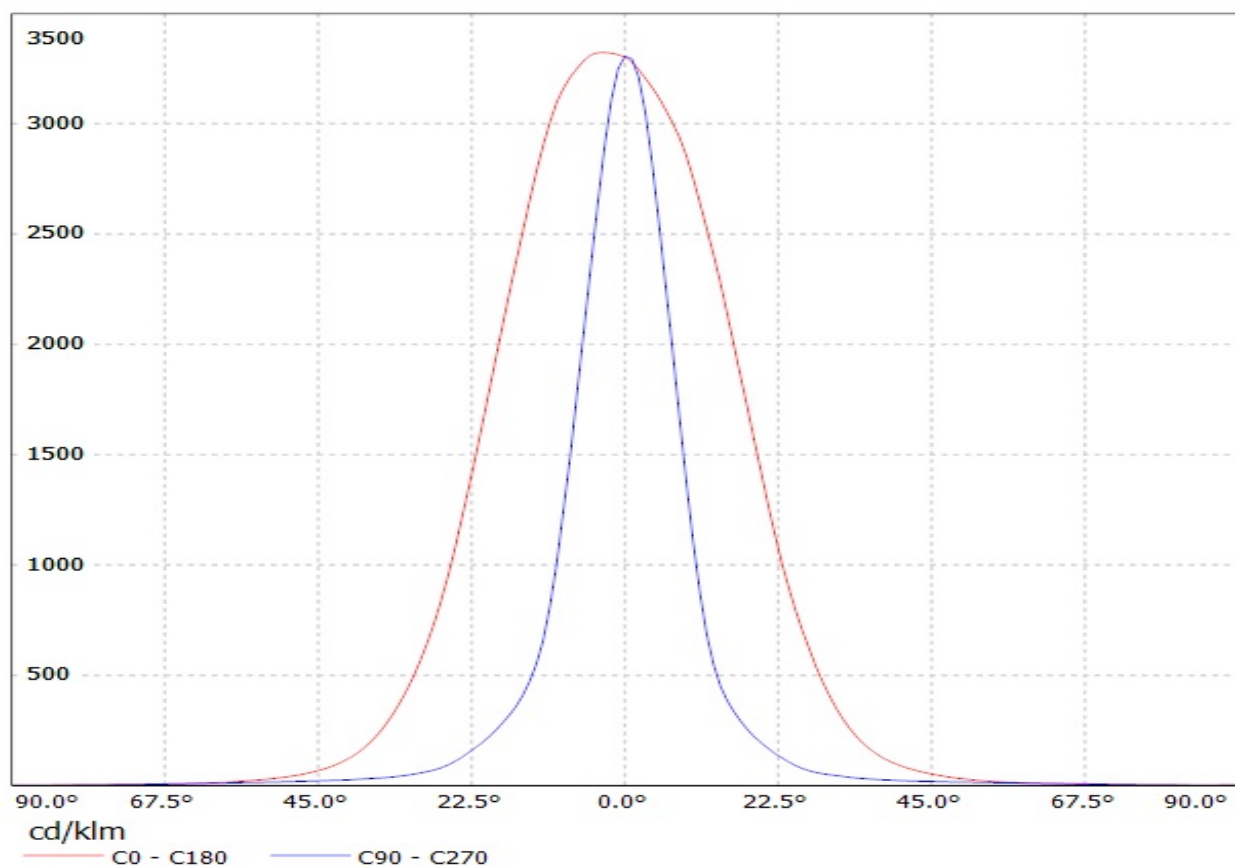
Luminaire: LEDIL OY C12828\_EVA-O (XM-L) Efficiency=86%  
Lamps: 1 x Cree XM-L (111lm @ 250mA)



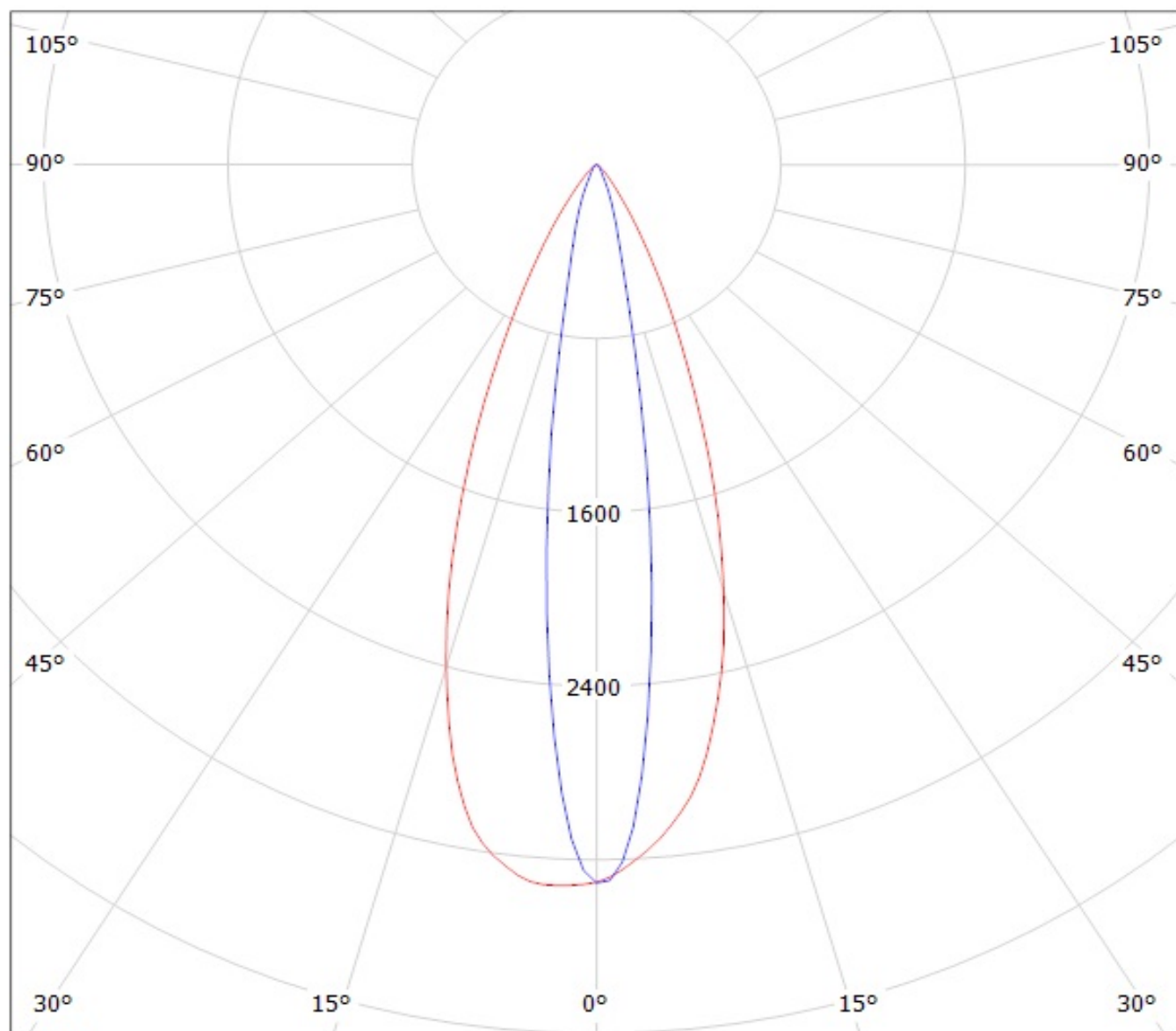
Luminaire: LEDIL OY CA12859\_EVA-O / CP12860\_EVA-O (XM-L) Efficiency=86%  
Lamps: 1 x Cree XM-L (1111lm @ 250mA)



Luminaire: LEDIL OY CA12859\_EVA-O / CP12860\_EVA-O (XM-L) Efficiency=86%  
Lamps: 1 x Cree XM-L (1111lm @ 250mA)



Luminaire: LEDIL OY C12828\_EVA-O (XM-L) Efficiency=86%  
Lamps: 1 x Cree XM-L (111lm @ 250mA)

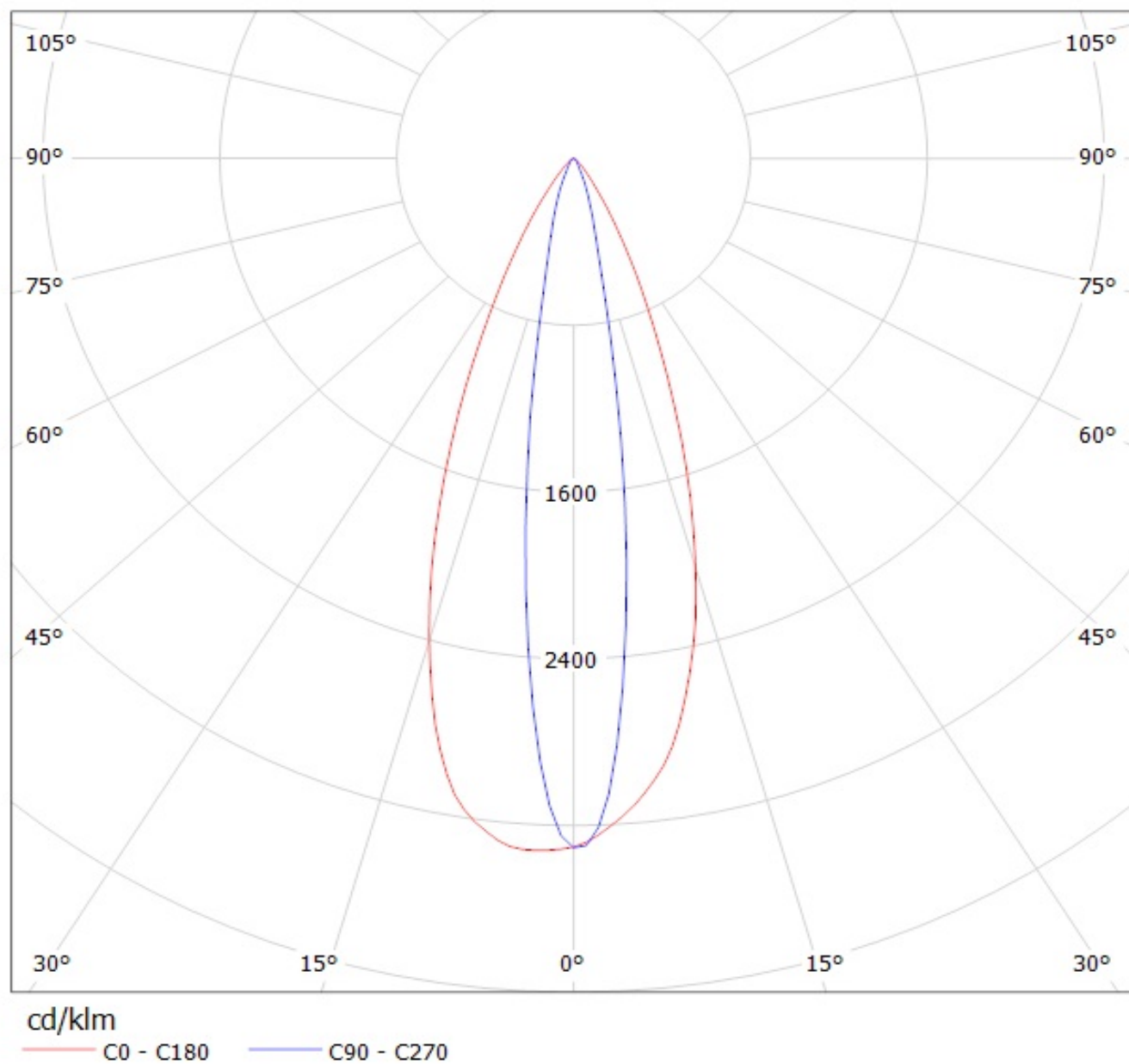


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDIL OY CA12859\_EVA-O / CP12860\_EVA-O (XM-L) Efficiency=86%  
Lamps: 1 x Cree XM-L (111lm @ 250mA)



Luminaire: LEDIL OY CA12859\_EVA-O / CP12860\_EVA-O (XM-L) Efficiency=86%  
Lamps: 1 x Cree XM-L (111lm @ 250mA)

