

**Ordering number C11793\_ANNA-40-4-S**

|                 |              |             |            |
|-----------------|--------------|-------------|------------|
| Family          | Anna-40-4    | FWHM        | 13 degrees |
| Type            | Lens array   | Efficiency  | 92 %       |
| LED             | LUXEON Rebel | cd/lm       | 9.300      |
| Color           | Clear        | Gerber File | Available  |
| Diameter        | 40 mm        |             |            |
| Height          | 10.7 mm      |             |            |
| Style           | Round        |             |            |
| Optic Material  | PMMA         |             |            |
| Holder Material | -            |             |            |
| Fastening       | Pin, glue    |             |            |
| Status          | Ready        |             |            |

**Ordering number C11794\_ANNA-40-4-M**

|                 |              |             |            |
|-----------------|--------------|-------------|------------|
| Family          | Anna-40-4    | FWHM        | 18 degrees |
| Type            | Lens array   | Efficiency  | 87 %       |
| LED             | LUXEON Rebel | cd/lm       | 5.000      |
| Color           | Clear        | Gerber File | Available  |
| Diameter        | 40 mm        |             |            |
| Height          | 10.7 mm      |             |            |
| Style           | Round        |             |            |
| Optic Material  | PMMA         |             |            |
| Holder Material | -            |             |            |
| Fastening       | Pin, glue    |             |            |
| Status          | Ready        |             |            |

**Ordering number C11795\_ANNA-40-4-W**

|                 |              |             |            |
|-----------------|--------------|-------------|------------|
| Family          | Anna-40-4    | FWHM        | 30 degrees |
| Type            | Lens array   | Efficiency  | 86 %       |
| LED             | LUXEON Rebel | cd/lm       | 1.900      |
| Color           | Clear        | Gerber File | Available  |
| Diameter        | 40 mm        |             |            |
| Height          | 10.7 mm      |             |            |
| Style           | Round        |             |            |
| Optic Material  | PMMA         |             |            |
| Holder Material | -            |             |            |
| Fastening       | Glue, pin    |             |            |
| 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

### Anna-40-4 series

last update 27/3/2012

PHILIPS  
LUMILEDS

#### GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON Rebel 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>

- Fastening to PCB with appropriate adhesive. By clicking link below you can find Ledil recommended glue options.

[http://www.ledil.com/datasheets/DataSheet\\_GLUES.pdf](http://www.ledil.com/datasheets/DataSheet_GLUES.pdf)

**NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit board weaken the strength of the glue.**

**NOTE 2: All surfaces where glue is applied must be clean, dry and free from grease and dirt. If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer -this is important as cleaning shall under no circumstances damage LEDs or other electronics components on the PCB.**

**Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.**

D

C

B

A

4

4

3

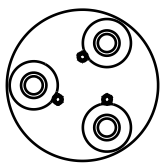
3

2

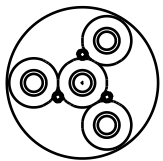
2

1

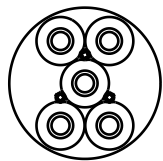
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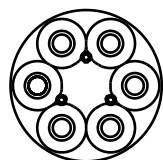
Anna-3



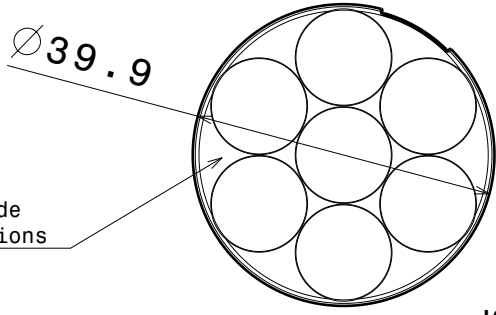
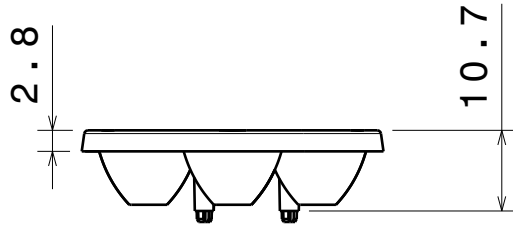
Anna-4



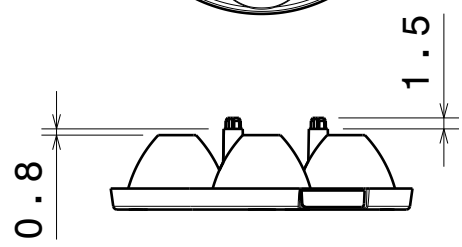
Anna-5



Anna-6

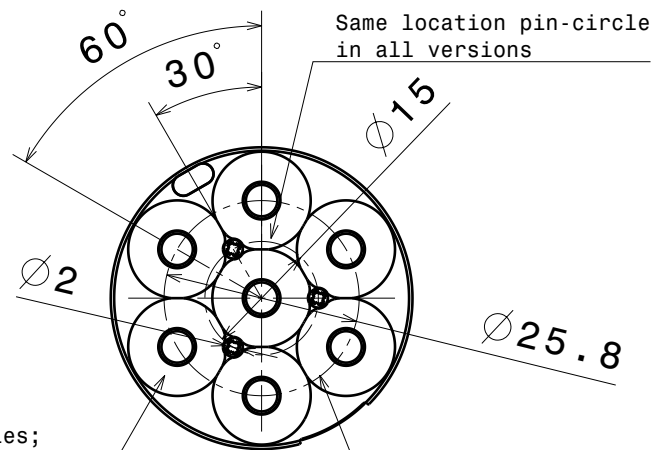


Anna-7



Same top side in all versions

Same location pin-circle in all versions



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

Same led-circle in all versions

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

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L T F F e i n e i n

DRAWING TITLE Datasheet Anna40-series Lens

|                   |                    |
|-------------------|--------------------|
| DRAWN BY<br>p     | DATE<br>12.10.2010 |
| CHECKED BY<br>s n | DATE<br>12.10.2010 |
| DESIGNED BY<br>hh | DATE<br>30.07.2010 |

|              |                     |              |
|--------------|---------------------|--------------|
| SIZE<br>A4   | DRAWING NUMBER<br>- | REV<br>1     |
| SCALE<br>1:1 | WEIGHT (g)          | SHEET<br>1/1 |

D

A