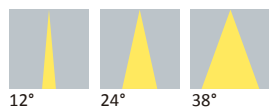




## Datasheet

# LL01CR-CEOxxL02

## Available Distribution



## LED

|                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| <b>CITIZEN</b><br>CLL030 / CLL040<br>CLU024 / CLU700<br>CLU710 / CLU720            | <b>CREE</b><br>CXA15xx<br>CXA1816<br>CXA30xx                                        | <b>LUMILEDS</b><br>L2C5-1204x1300<br>L2C5-1205x1300<br>L2C5-1208x1500               | <b>SHARP</b><br>Mega Zenigata                                                       | <b>XICATO</b><br>XTM 9mm<br>XTM 19mm                                                | <b>HONOURTEK</b><br>HRA0303<br>HRA0404<br>HRA0410                                   |

## Recommend Applications



## General Information

|                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| PC<br>110°C<br>-40°C                                                               | PC LEV1700KL<br>V-2<br>RTI<br>130°C                                                 | 1.5mm                                                                               | 400nm~900nm<br>> 90%                                                                |                                                                                     |

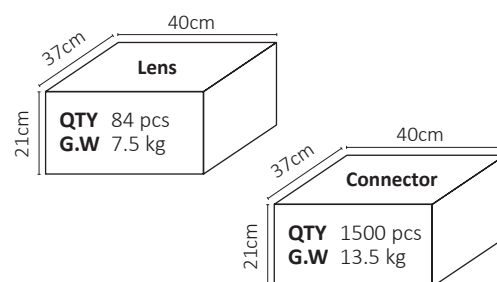
- Lens Material PC LEV1700KL / 2180T
- Operating Temperature -40°C~+110°C
- UL Flammability V-2 @1.5mm
- UL RTI Elec 130°C @1.5mm
- Light Transmission Rate 400nm~900nm > 90%
- ✓ If necessary, Clean lenses with mild soap, water and soft cloth.
- ⚠ Never use any commercial cleaning solvents on lenses, like alcohol.
- ⚠ Please handle or install lenses with wearing gloves, skin oils may damage lens or its optical characteristic.

## Dimensions

| Part Number     | Diameter | Height |
|-----------------|----------|--------|
| LL01CR-CEOxxL02 | Ø90      | 19.5   |

\*All dimensions are in millimeters.

## Packaging Details (SPQ)



## Accessories



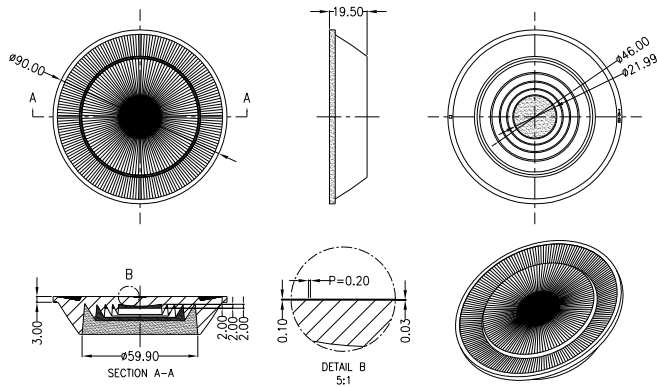
- Available with Solder-Free Connector LL01A00CWEB2

# Mechanical Specification

\*All dimensions are in millimeters.

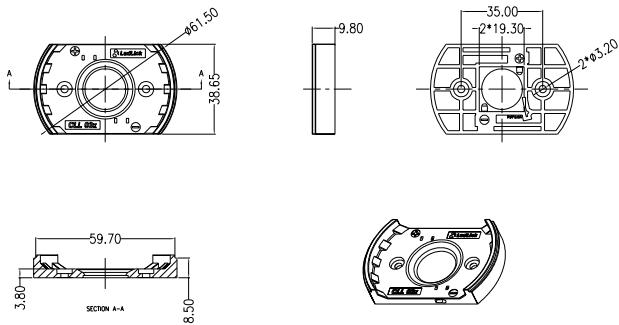
## Lens Dimension

LL01CR-CEO××L02



## Solder-Free Connector Dimension

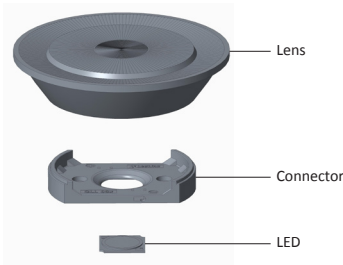
LL01A00CWEB2



## Assembly Instruction

Part No LL01CR-CEO××L02  
Connector LL01A00CWEB2 (Solder-Free)  
LED CITIZEN CLL030

Fixing Method



## Tensile Test with Solder-Free Connector

LL01A00CWEB2

## Wire Specification

Wire Diameter 0.32mm<sup>2</sup>~0.81mm<sup>2</sup>

## Tensile Test

|        |           |
|--------|-----------|
| 10 AWG | 10 pounds |
| 20 AWG | 10 pounds |
| 22 AWG | 8 pounds  |

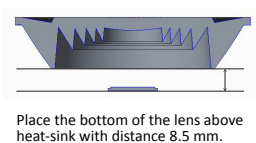
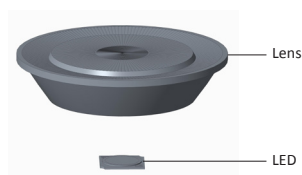
# Mechanical Specification

\*All dimensions are in millimeters.

## Assembly Instruction

### Fixing Method

Part No LL01CR-CEO××L02  
LED CITIZEN CLL040 / CLU024 / CLU700 / CLU710 / CLU720  
CREE CXA15xx / CXA30xx / CXA1816  
LUMILEDS Luxeon L2C5-1204x1300 / L2C5-1205x1300 / L2C5-1208x1500  
SHARP Mega Zenigata

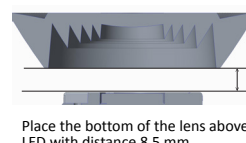
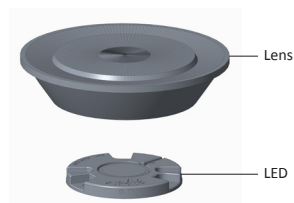


Place the bottom of the lens above heat-sink with distance 8.5 mm.

## Assembly Instruction

### Fixing Method

Part No LL01CR-CEO××L02  
LED XICATO XTM-9mm-LES

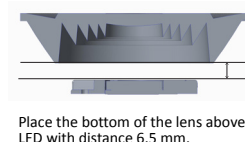
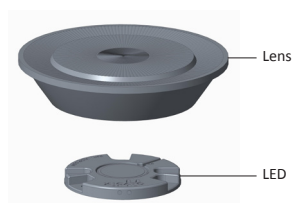


Place the bottom of the lens above LED with distance 8.5 mm.

## Assembly Instruction

### Fixing Method

Part No LL01CR-CEO××L02  
LED XICATO XTM-19mm-LES

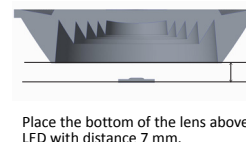
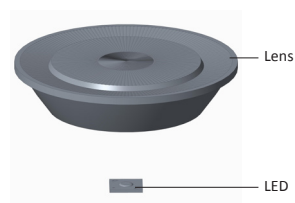


Place the bottom of the lens above LED with distance 6.5 mm.

## Assembly Instruction

### Fixing Method

Part No LL01CR-CEO××L02  
LED HONOURTEK HRA0303 / HRA0404 / HRA0410

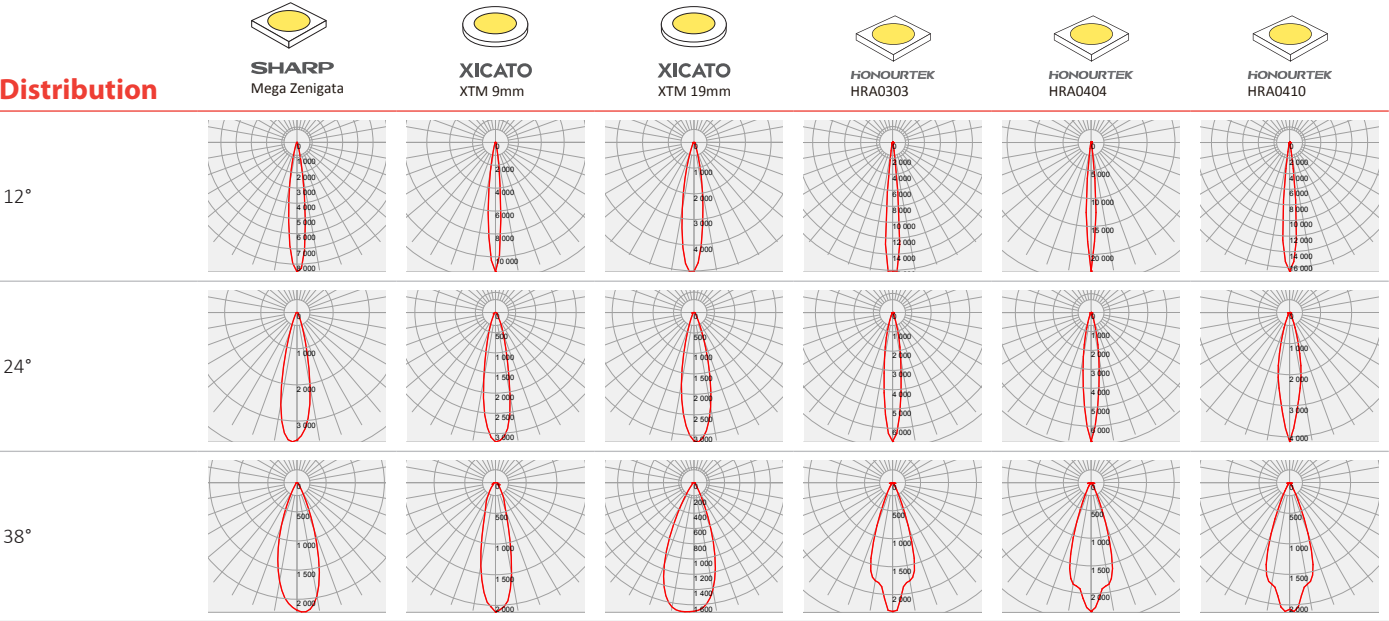


Place the bottom of the lens above LED with distance 7 mm.

# Photometric Distribution



# Photometric Distribution



# Details by LED

| Part No         | Connector                                                                                                                                                                           | LED Package Size | LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LL01CR-CEOxxL02 | -                                                                                                                                                                                   | LES Ø3.5~23      |  CITIZEN CLL040  CITIZEN CLU024  CITIZEN CLU700  CITIZEN CLU710  CITIZEN CLU720  CREE CXA15xx                               |
|                 |                                                                                                                                                                                     |                  |  CREE CXA30xx  CREE CXA1816  LUMILEDS L2C5-1204x1300  LUMILEDS L2C5-1205x1300  LUMILEDS L2C5-1208x1500  SHARP Mega Zenigata |
|                 |                                                                                                                                                                                     |                  |  XICATO XTM 9mm  XICATO XTM 19mm  HONOURTEK HRA0303  HONOURTEK HRA0404  HONOURTEK HRA0410                                                                                                                      |
|                 |  <br>LL01A00CWEB2 | LES Ø14.5        |  CITIZEN CLL030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| LED                                                                                | Part No         | FWHM | cd / lm | IES                                                                                 |
|------------------------------------------------------------------------------------|-----------------|------|---------|-------------------------------------------------------------------------------------|
|  | LL01CR-CEO12L02 | 12°  | 9.8     |  |
|                                                                                    | LL01CR-CEO24L02 | 23°  | 3.9     |  |
|                                                                                    | LL01CR-CEO38L02 | 34°  | 2.2     |  |
|  | LL01CR-CEO12L02 | 22°  | 3.7     |  |
|                                                                                    | LL01CR-CEO24L02 | 31°  | 2.1     |  |
|                                                                                    | LL01CR-CEO38L02 | 43°  | 1.5     |  |
|  | LL01CR-CEO12L02 | 14°  | 9.2     |  |
|                                                                                    | LL01CR-CEO24L02 | 20°  | 4.8     |  |
|                                                                                    | LL01CR-CEO38L02 | 32°  | 2.5     |  |
|  | LL01CR-CEO12L02 | 7°   | 28.0    |  |
|                                                                                    | LL01CR-CEO24L02 | 16°  | 6.9     |  |
|                                                                                    | LL01CR-CEO38L02 | 28°  | 3.1     |  |
|  | LL01CR-CEO12L02 | 9°   | 18.2    |  |
|                                                                                    | LL01CR-CEO24L02 | 19°  | 5.1     |  |
|                                                                                    | LL01CR-CEO38L02 | 30°  | 2.6     |  |
|  | LL01CR-CEO12L02 | 10°  | 13.1    |  |
|                                                                                    | LL01CR-CEO24L02 | 21°  | 4.0     |  |
|                                                                                    | LL01CR-CEO38L02 | 33°  | 2.2     |  |
|  | LL01CR-CEO12L02 | 11°  | 12.0    |  |
|                                                                                    | LL01CR-CEO24L02 | 19°  | 4.8     |  |
|                                                                                    | LL01CR-CEO38L02 | 32°  | 2.6     |  |
|  | LL01CR-CEO12L02 | 22°  | 3.7     |  |
|                                                                                    | LL01CR-CEO24L02 | 27°  | 2.6     |  |
|                                                                                    | LL01CR-CEO38L02 | 37°  | 1.8     |  |
|  | LL01CR-CEO12L02 | 13°  | 9.8     |  |
|                                                                                    | LL01CR-CEO24L02 | 22°  | 4.3     |  |
|                                                                                    | LL01CR-CEO38L02 | 35°  | 2.1     |  |

| LED                                                                                 | Part No         | FWHM | cd / lm | IES                                                                                   |
|-------------------------------------------------------------------------------------|-----------------|------|---------|---------------------------------------------------------------------------------------|
|  | LL01CR-CEO12L02 | 15°  | 8.2     |  |
|                                                                                     | LL01CR-CEO24L02 | 24°  | 3.7     |  |
|                                                                                     | LL01CR-CEO38L02 | 33°  | 2.3     |  |
|  | LL01CR-CEO12L02 | 15°  | 8.0     |  |
|                                                                                     | LL01CR-CEO24L02 | 23°  | 3.7     |  |
|                                                                                     | LL01CR-CEO38L02 | 34°  | 2.2     |  |
|  | LL01CR-CEO12L02 | 16°  | 6.7     |  |
|                                                                                     | LL01CR-CEO24L02 | 25°  | 3.4     |  |
|                                                                                     | LL01CR-CEO38L02 | 35°  | 2.1     |  |
|  | LL01CR-CEO12L02 | 14°  | 8.4     |  |
|                                                                                     | LL01CR-CEO24L02 | 24°  | 3.5     |  |
|                                                                                     | LL01CR-CEO38L02 | 34°  | 2.2     |  |
|  | LL01CR-CEO12L02 | 11°  | 11.3    |  |
|                                                                                     | LL01CR-CEO24L02 | 22°  | 3.2     |  |
|                                                                                     | LL01CR-CEO38L02 | 26°  | 2.1     |  |
|  | LL01CR-CEO12L02 | 18°  | 5.0     |  |
|                                                                                     | LL01CR-CEO24L02 | 25°  | 3.1     |  |
|                                                                                     | LL01CR-CEO38L02 | 40°  | 1.6     |  |
|  | LL01CR-CEO12L02 | 10°  | 16.1    |  |
|                                                                                     | LL01CR-CEO24L02 | 15°  | 6.6     |  |
|                                                                                     | LL01CR-CEO38L02 | 35°  | 2.2     |  |
|  | LL01CR-CEO12L02 | 8°   | 22.9    |  |
|                                                                                     | LL01CR-CEO24L02 | 14°  | 6.7     |  |
|                                                                                     | LL01CR-CEO38L02 | 34°  | 2.3     |  |
|  | LL01CR-CEO12L02 | 11°  | 16.4    |  |
|                                                                                     | LL01CR-CEO24L02 | 20°  | 4.1     |  |
|                                                                                     | LL01CR-CEO38L02 | 37°  | 2.1     |  |

## Product Nomenclature

Ledlink      Led Type      Lens Angle

LL 01 CR -CEO 12 L02

Lens Dot Number      Serial Number      Type of Material

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