

Data Sheet

LL04CR-CGM85135L02

CREE 
▶ LED Solution Provider



Similar Products(Brightness Uniformity, Assymetry, Elevation needed)



LL01CR-AU85135L02



LL01CR-BAJ85135L02

■ Features & Typical Applications

- High efficiency
- Roadway Lighting
- Optimized for uniform effect

■ Table of Contents

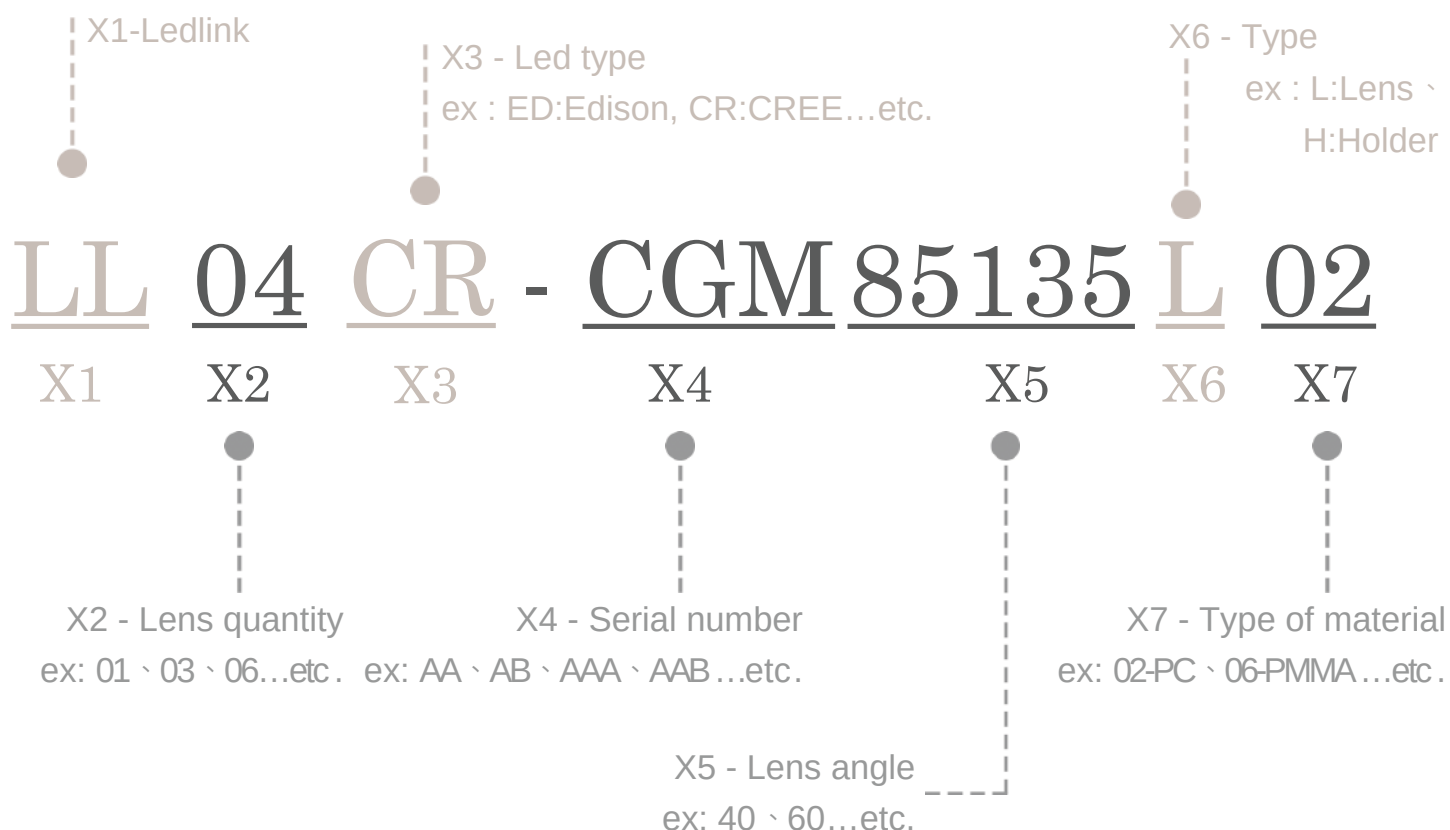
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LL04CR-CGM85135L02

General Information

- Lens Material : PC LEV1700
- Operating Temperature range $-40^{\circ}\text{C} \sim +110^{\circ}\text{C}$ (upper limit $+120^{\circ}\text{C}$).
- Storage Temperature range $-40^{\circ}\text{C} \sim +110^{\circ}\text{C}$ (upper limit $+120^{\circ}\text{C}$).
- * Average transmittance in visible spectrum $400\text{nm} \sim 700\text{nm} > 90\%$.
- Usage and Maintenance:
 1. If necessary, clean lenses with mild soap, water and soft cloth.
 2. Never use any commercial cleaning solvents on lenses, like alcohol.
 3. Please handle or install lenses with wearing gloves, skin oils may damage lens or its optical characteristic.

Product Nomenclature

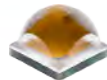


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Optical Specifications



► LED Solution Provider

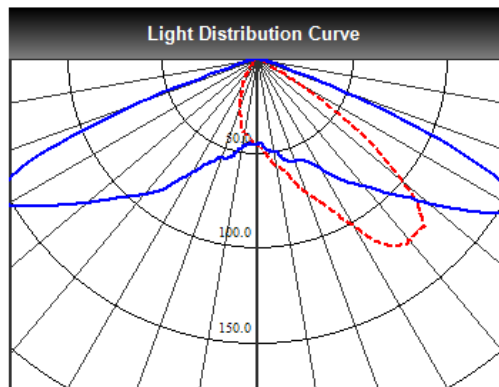
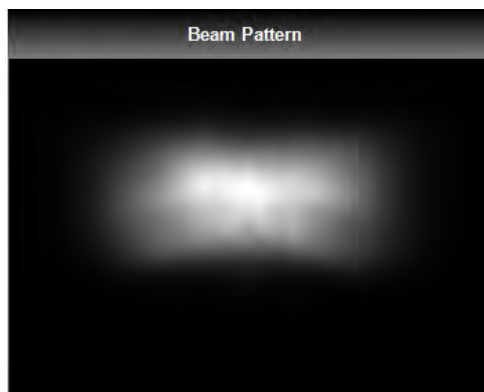


XP-L

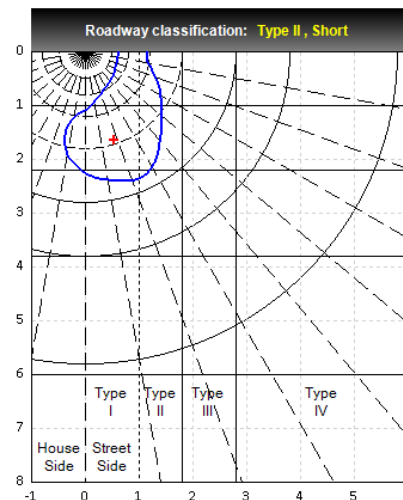
Note: (1) All the results of analysis are based on 10 degrees of elevation.
(2) Tolerance: $\pm 10\%$.
(3) Led Luminous Flux(lm): 334($\pm 5\%$).

IES File: [Download](#)

@elevation 15°



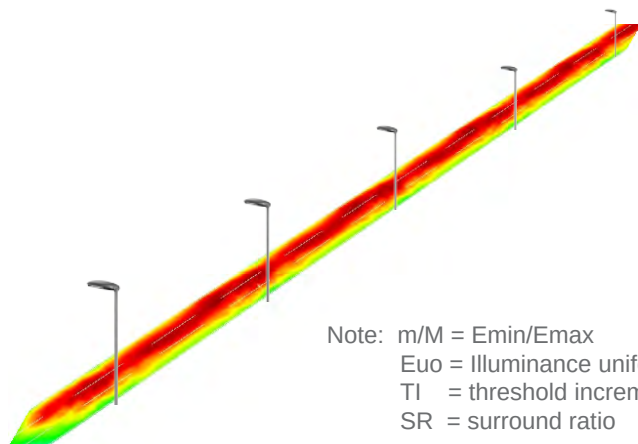
---C0:0-180 —C1:90-270



Elevation	Roadway Classification
0°	Type I, Short
5°	Type I, Short
10°	Type II, Short
15°	Type II, Short
20°	Type II, Short

DIALux Simulation Result

Analyzed file: [Download](#)



Note: $m/M = E_{min}/E_{max}$
 E_{uo} = Illuminance uniformity
 TI = threshold increment
 SR = surround ratio

Recommend configuration condition

Height	=	10m
Distance	=	30m
Roadwidth	=	10.5m
Elevation	=	15degree
Overhang	=	1m

Result

m/M	=	0.6
E_{uo}	=	0.75
TI	=	3%
SR	=	0.5

*The results would be similar if the configuration conditions are equally magnified or minified.

*This testing result is obtained through testing the popular rank LED samples which provided by the original manufacturer. Hence, the testing results would be varied as the users choose same LED model but different rank.

*The analyzed file require DIALux v4.11 and above to open.

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Mechanical Specification

1. Fixing method

☐ Glue

☒ Screw

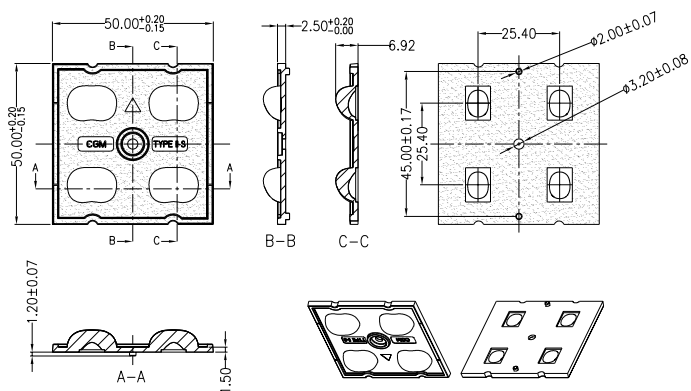
☐ Tape

☐ Fixing-ring

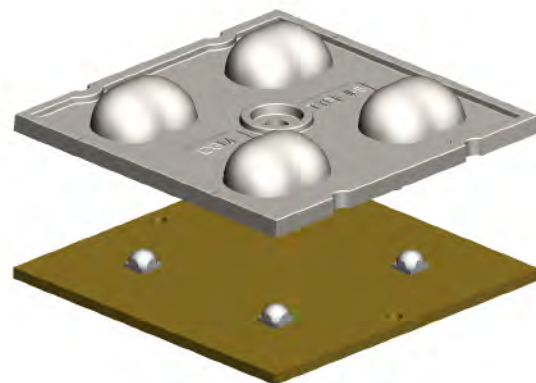
☒ Frame

Note: (1) All dimensions are in mm.
(2) All measurements are ± 0.15 mm unless otherwise indicated.

2. Lens dimension



3. Lens + Leds + MCPCB assembly instruction



4. Assembly dimension

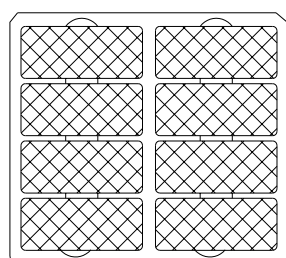
5. View assembly lens with MCPCB:



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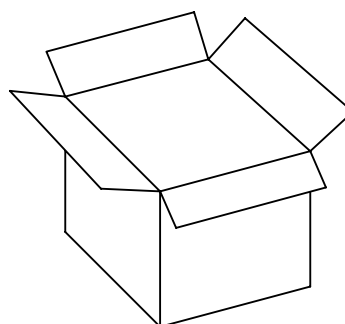
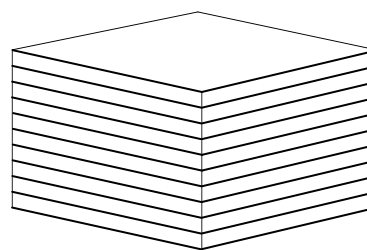
Package Specifications

Item	Quantity	Total	Size(L*W*H)	G.W
plastic box	48 pcs/plastic box	48 pcs	32*29*1.75 cm	7g
outer box	9 plastic box/outer box	432 pcs	35*31*21 cm	



LL-0989

48 pcs/plastic box



432 pcs/outer box



Note: