

Data Sheet

LL04CR-AU45135L46

CREE 
 ▶ LED Solution Provider



■ Features & Typical Applications

- High efficiency
- Optimized Uniformity
- Roadway Lighting
- Anti-glare

■ Table of Contents

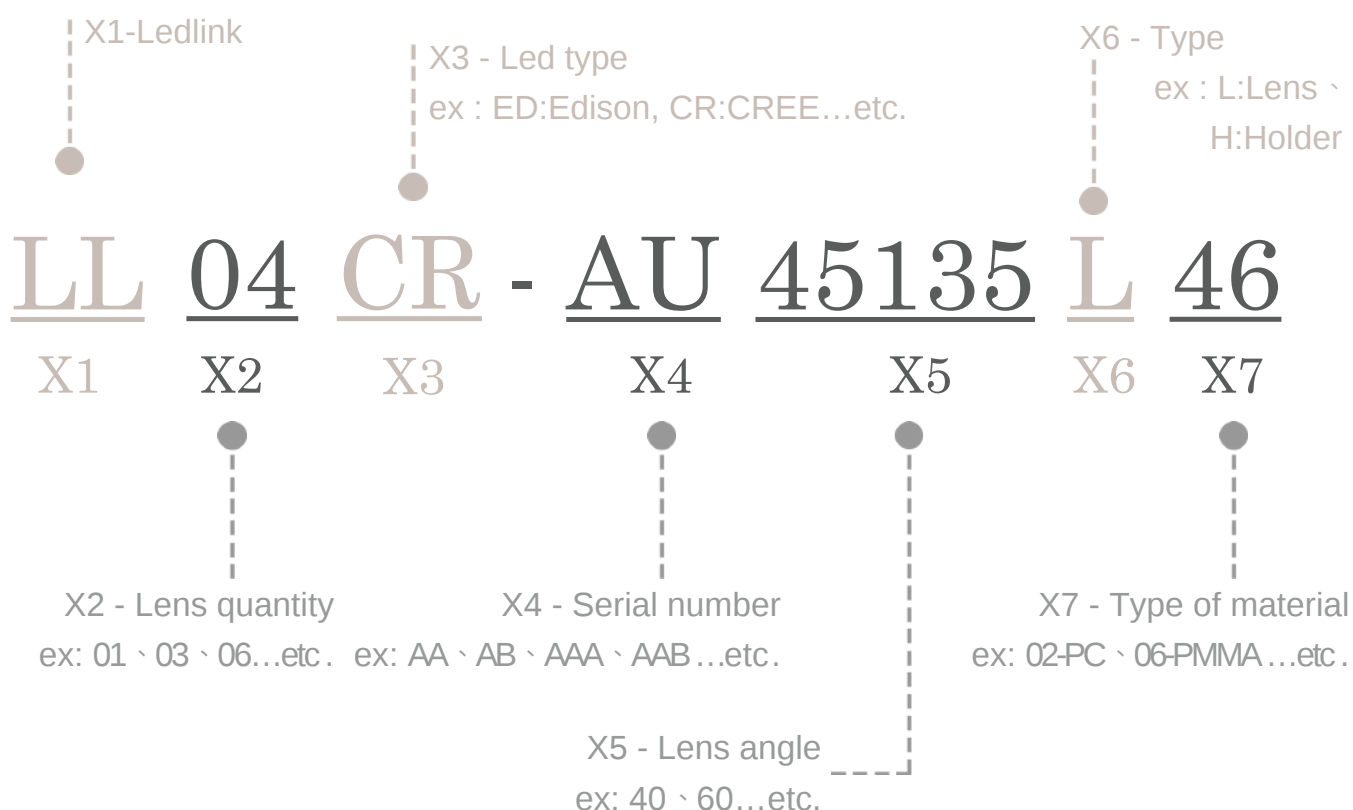
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General Information

- Lens Material : PCL 1225Z
- 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.

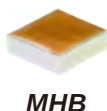
Product Nomenclature



LL04CR-AU45135L46

Optical Specifications

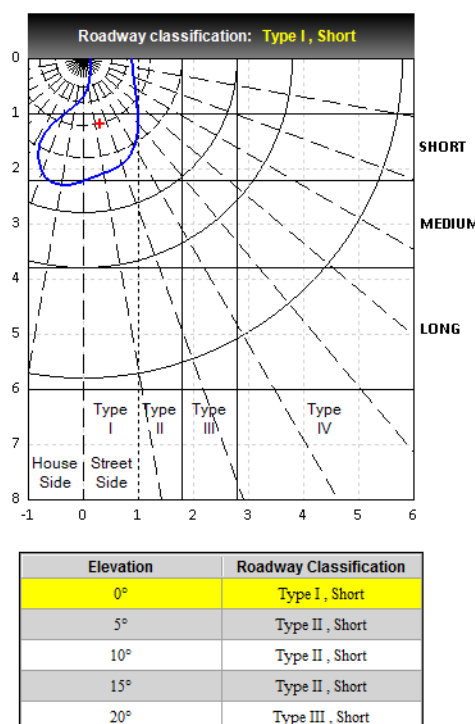
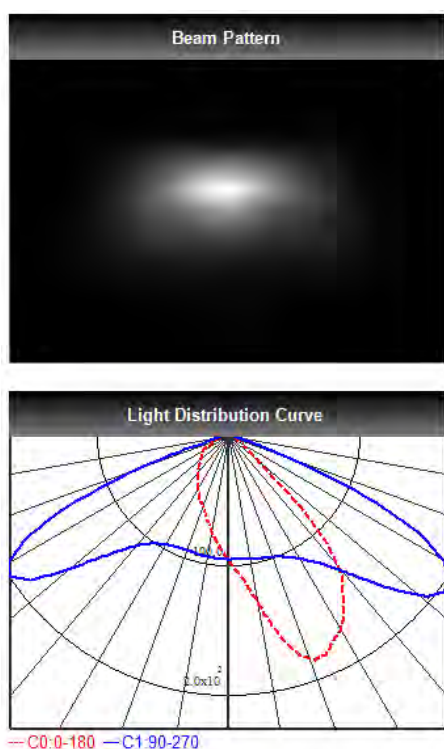
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Note: (1) All the results of analysis are based on 10 degrees of elevation.
 (2) Tolerance: $\pm 10\%$.
 (3) Led Luminous Flux(lm): 457 ($\pm 5\%$).

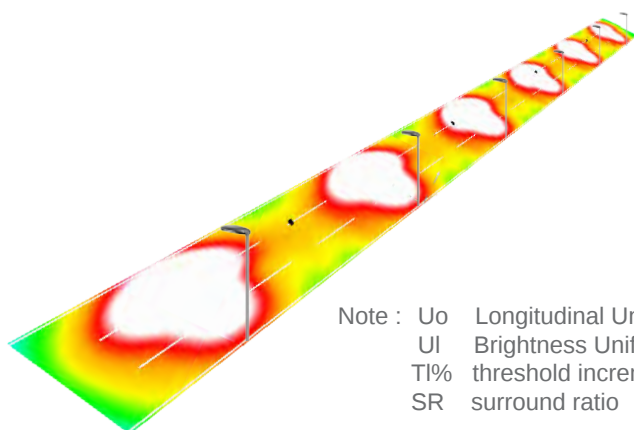
IES File: [Download](#)

@elevation 0°



DIALux Simulation Result

Analyzed file: [Download](#)



Note : Uo Longitudinal Uniformity
 UI Brightness Uniformity
 TI% threshold increment
 SR surround ratio

Recommend configuration condition

Height	=	10m
Distance	=	40m
Roadwidth	=	12m
Elevation	=	0 degree
Overhang	=	1.0m

Result

Emin / Emax	=	0.38
Emin / Eavg	=	0.64
UI	=	0.33
Uo	=	0.47
TI	=	5%
SR	=	0.6

*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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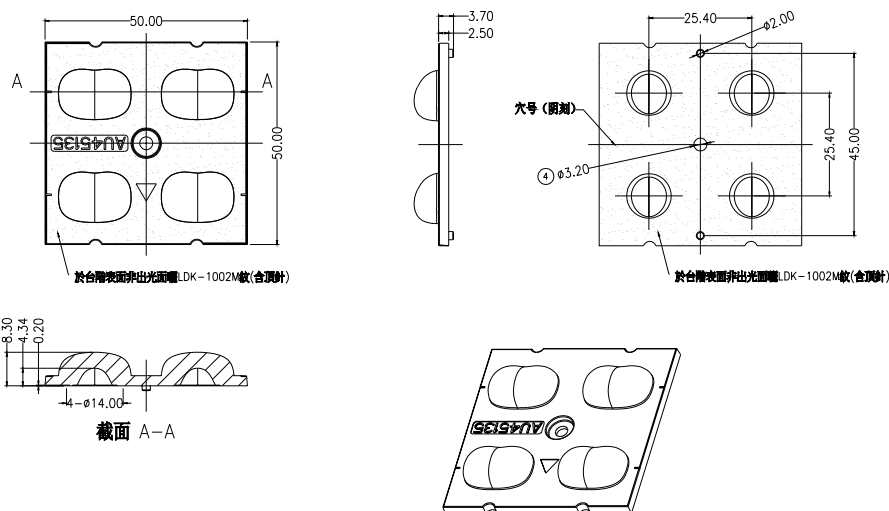
Mechanical Specification

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

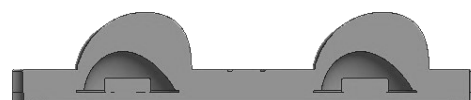


3. Assembly instruction



4. Assembly dimension

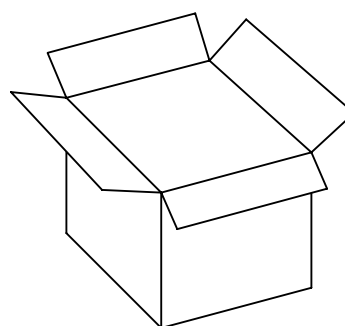
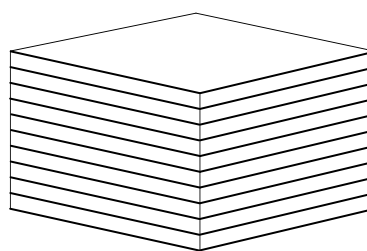
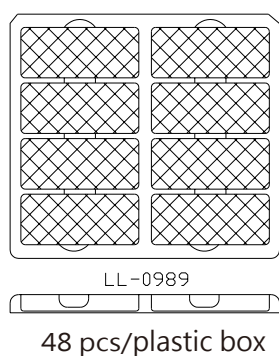
5. View assembly lens with MCPCB:



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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*2.15 cm	6.6g
outer box	10 plastic box/outer box	480 pcs	35*31*21 cm	



480 pcs/outer box



Note: