

Data Sheet

LL01CR-AU45135L46

CREE 
► LED Solution Provider



Features & Typical Applications

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

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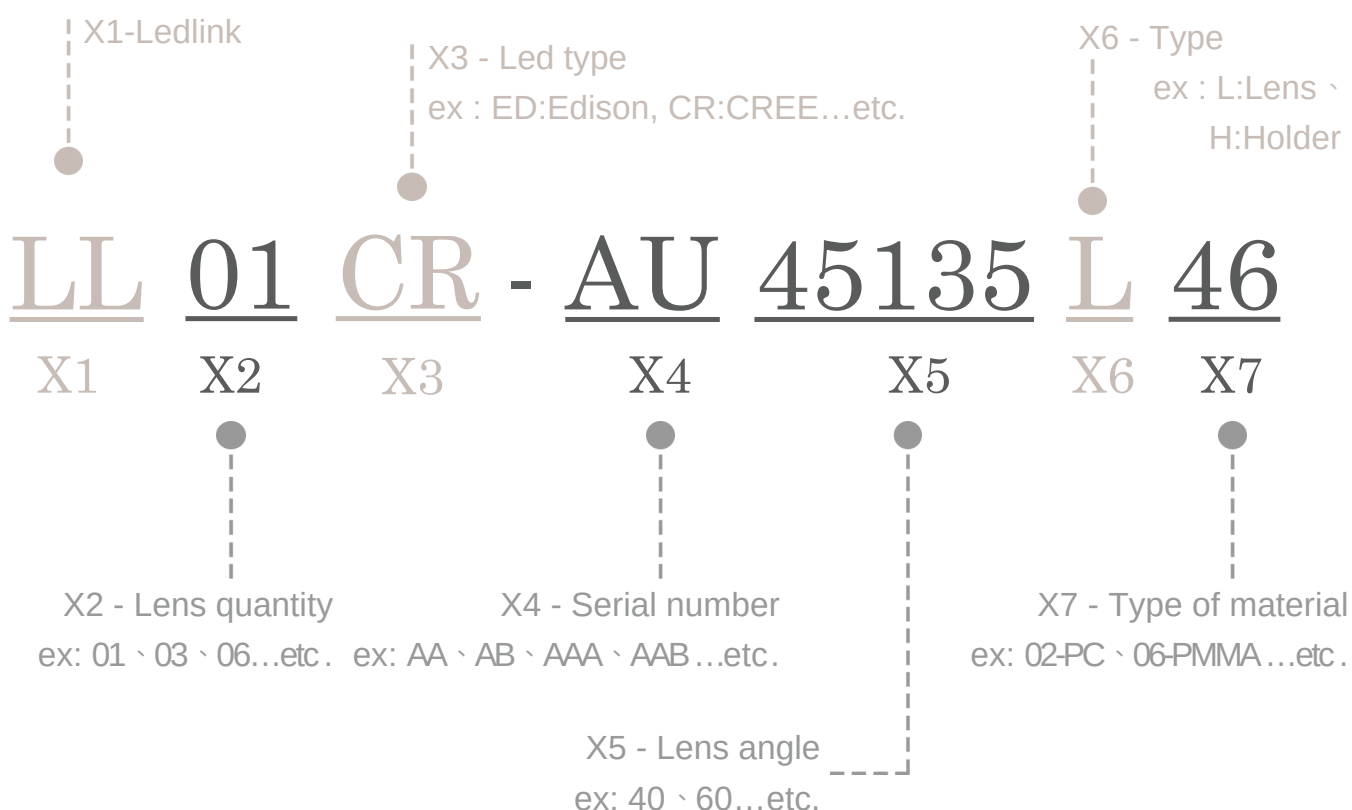
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General Information

- 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



LL01CR-AU45135L46

Optical Specifications



► LED Solution Provider

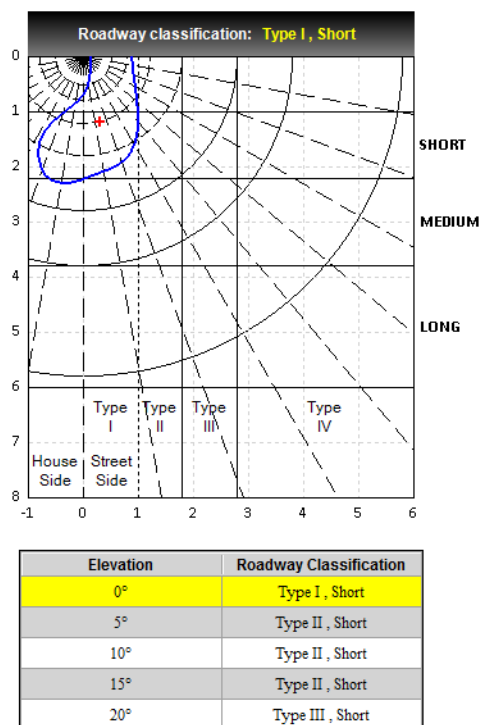
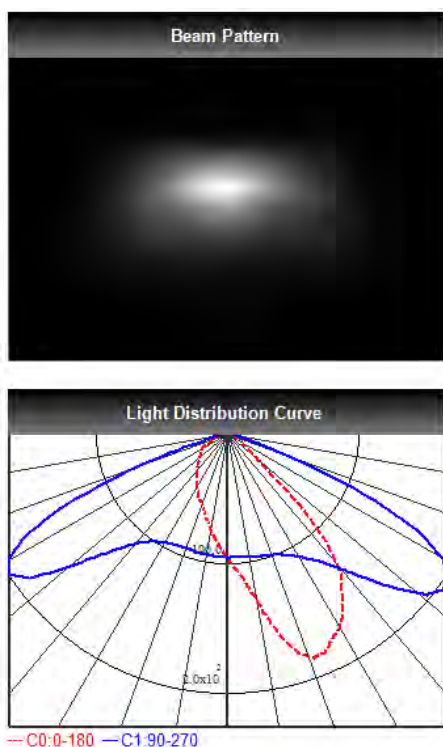


MHB

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

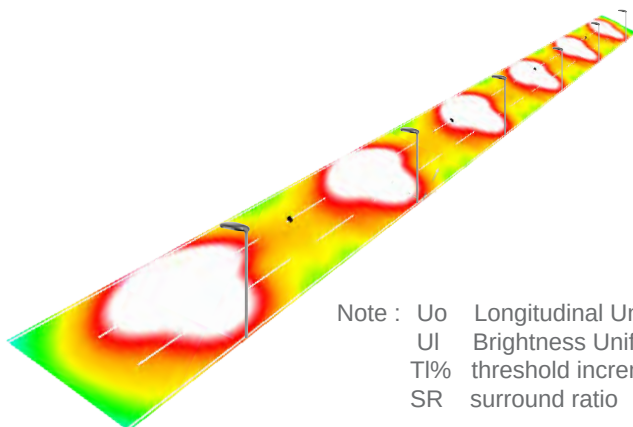
IES File: [Download](#)

@elevation 0°



DIALux Simulation Result

Analyzed file: [Download](#)



Note : U_o Longitudinal Uniformity
U_i Brightness Uniformity
TI% threshold increment
SR surround ratio

Recommend configuration condition

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

Result

E _{min} / E _{max}	=	0.38
E _{min} / E _{avg}	=	0.64
U _i	=	0.33
U _o	=	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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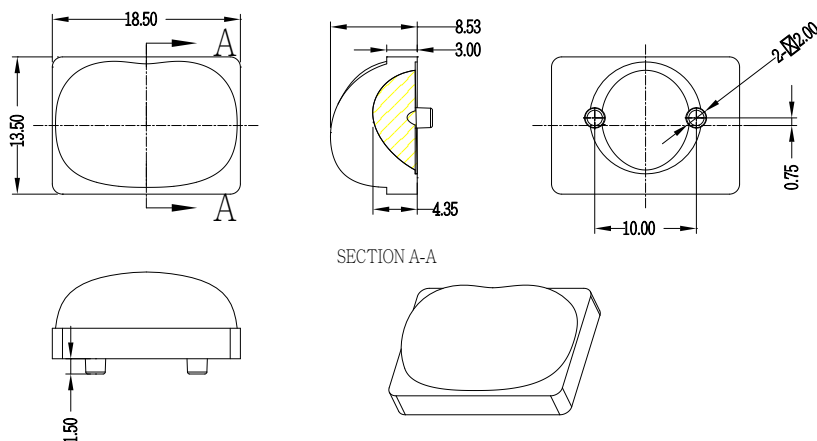
Mechanical Specification

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

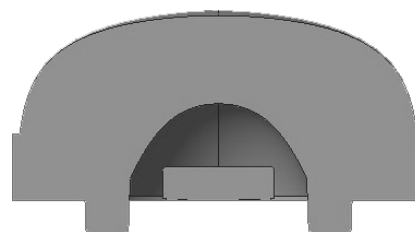


3. Assembly instruction



4. Assembly dimension

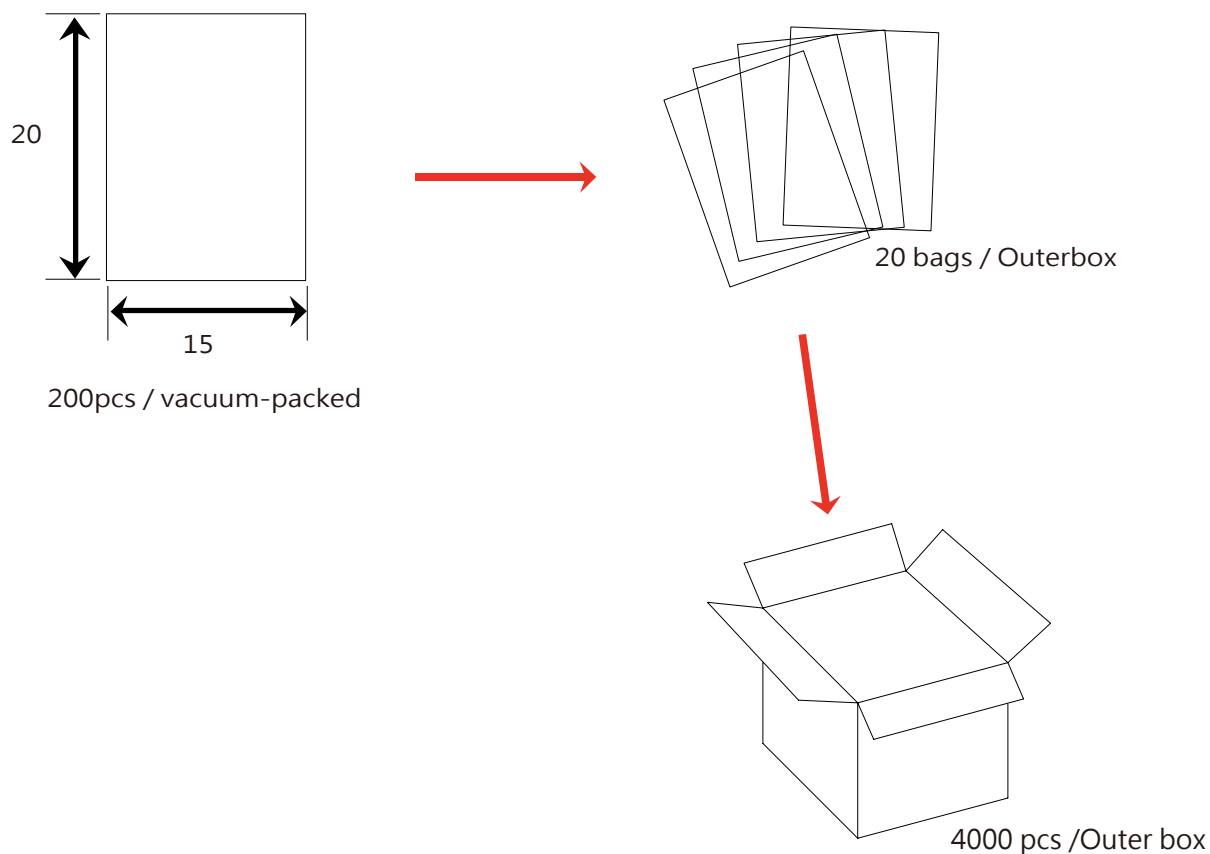
5. View assembly lens with MCPCB:



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Package Specifications

Item	Quantity	Total	Size(L*W*H)	G.W
Inside the bag	100 pcs/vacuum-packed	200 pcs	20*15 cm	1.6 g
Outer box	20 plastic bags/box	4000 pcs	40*37*21 cm	



Note: