

# Data Sheet

LL01CR-AU45135L46

**CREE**   
▶ LED Solution Provider



## ■ Features & Typical Applications

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

## ■ Table of Contents

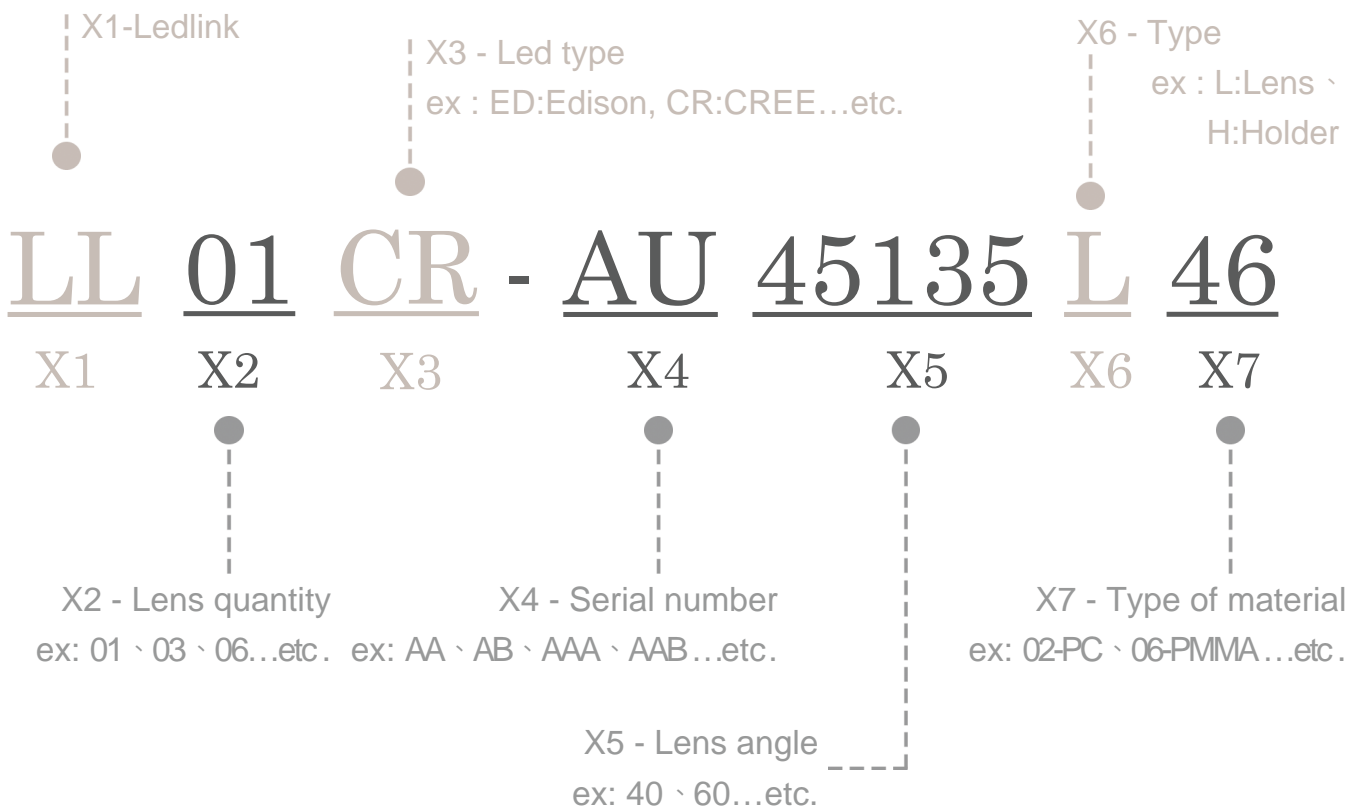
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# LL01CR-AU45135L46

## General Information

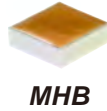
- Lens Material : PCL 1225Z
- Operating Temperature range -40°C~+110°C(upper limit +120°C)
- Storage Temperature range -40°C~+110°C(upper limit +120°C)
  - \* Average transmittance in visible spectrum 400nm~700nm>90%
- Usage and Maintenance:
  1. If necessary, clean lenses with mild soap, water and soft 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

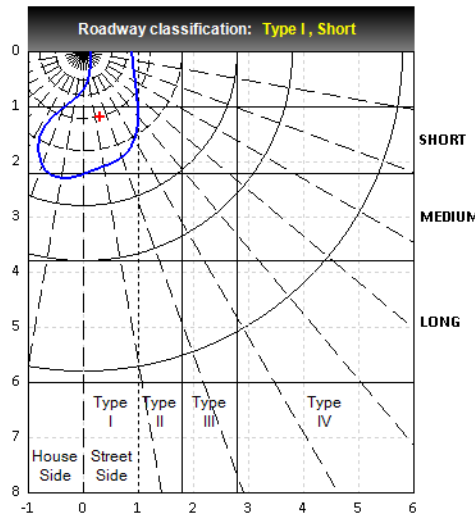
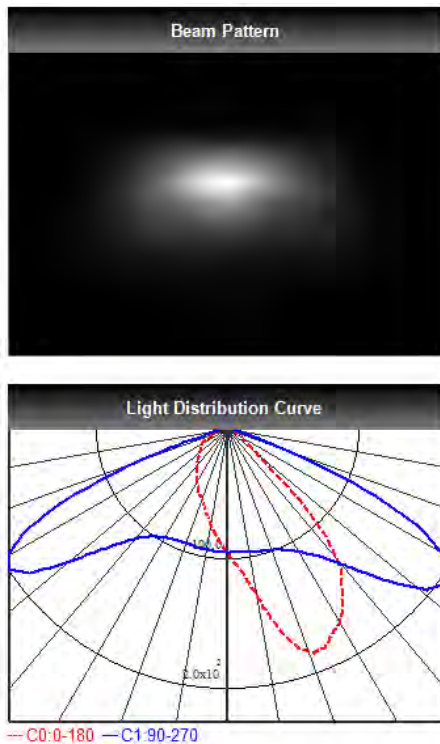
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Note: (1) All the results of analysis are based on 10 degrees of elevation.  
(2) Tolerance:  $\pm 10\%$ .  
(3) Led Luminous Flux(lm): 457 ( $\pm 5\%$ ).

IES File: [Download](#)

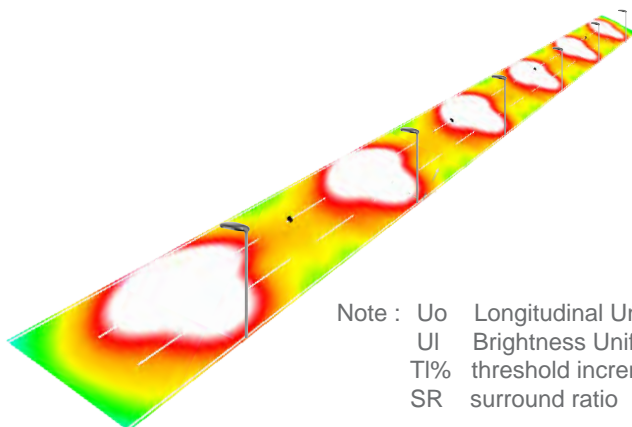
@elevation 0°



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

## 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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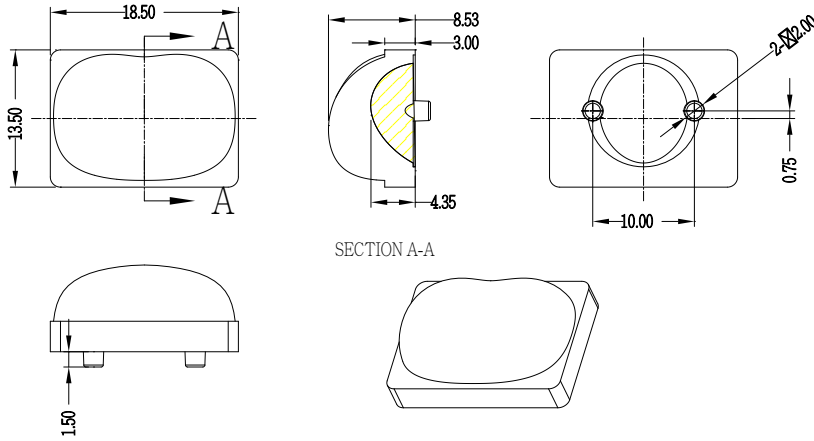
## Mechanical Specification

### 1. Fixing method

Glue     
  Screw     
  Tape     
  Fixing-ring     
  Frame

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

### 2. Lens dimension

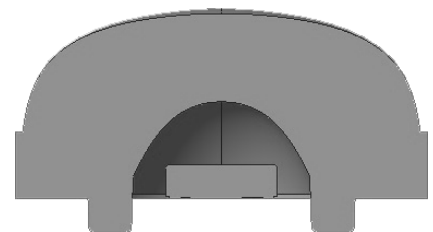


### 3. Assembly instruction



### 4. Assembly dimension

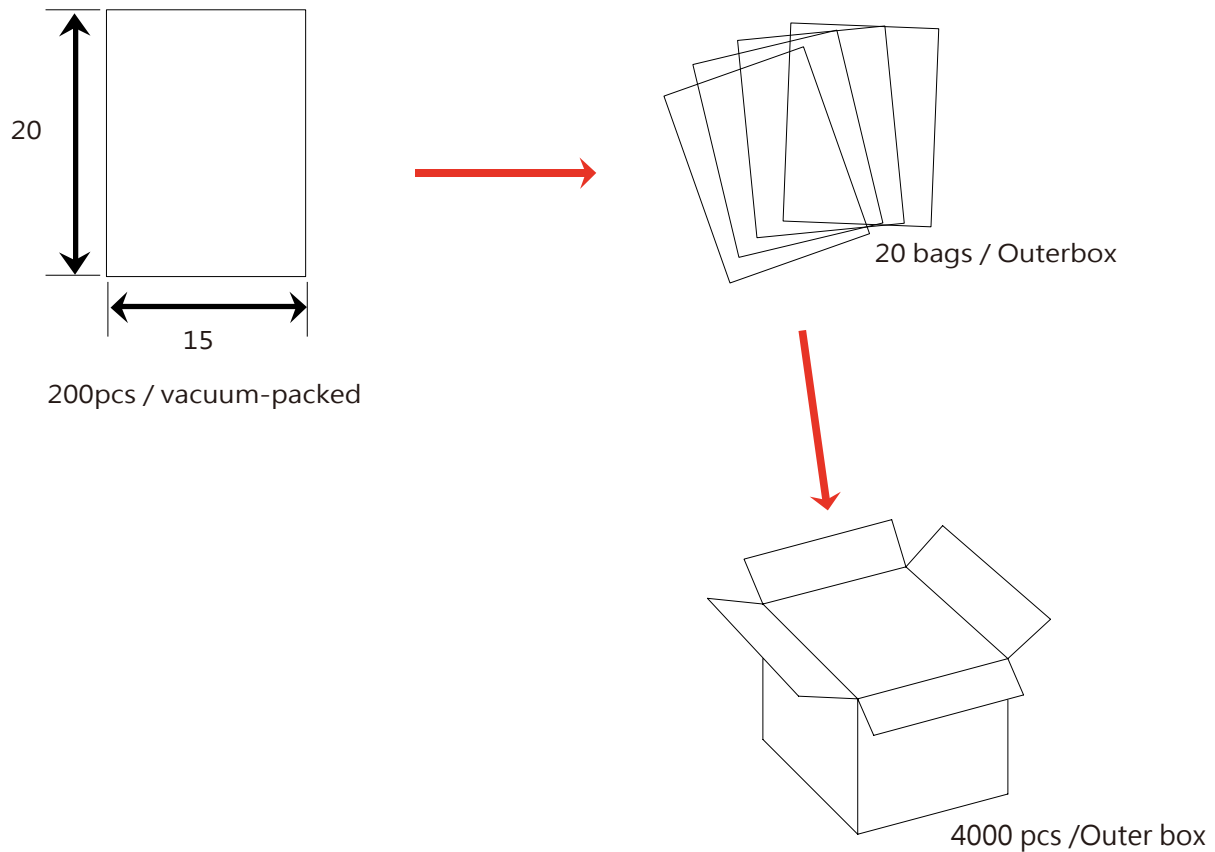
### 5. View assembly lens with MCPCB:



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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:**