

Road Lighting

LED Road Lighting

LLF0016A



Providing light and safety to roads



LED Road Lighting **LLF0016A**



Features

Design that suits urban areas

Implemented optimal control of light distribution with the slim body that matches a variety of scenes.

High tolerance to UV

Tempered glass is used for the outer lens of the light-emitting part, and the optical lenses are made of acryl.

High tolerance to heat

Ambient temperature is 50°C at the highest.

Wide range of input voltage

Voltage for lighting can be in the range of AC90-305V; usable in regions with unstable voltage.

Wide variety of lenses

The most suitable lens can provide the road with a uniform light distribution.

Maintenance & upgrade

In addition to the power source part, we unitized the LED part so it can be exchanged or upgraded by unit.

Design Concept

The tolerance to lightning surge is as high as 20kV, which provides security in a long-term use under harsh conditions. The risk of bugs getting inside the product is very low, because it is designed with high airtightness (IP66) even on the parts other than the light source.

The product can meet a variety of demands because it can provide many combinations of its output range, which is 100-200W, and its four patterns of light distribution. Construction for this lighting fixture is simple because opening/closing of the cover does not require a tool.

Examples



Bangkok Expressway and Metro Public Company Limited, Thailand



Karawang International Industrial City (KIIC), Indonesia



Asia Industrial Estate, a suburb of Bangkok, Thailand

Product Image



Front



Side



Back



The light on

Specifications

Part No.

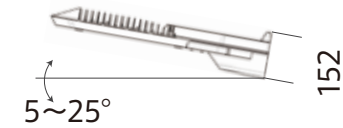
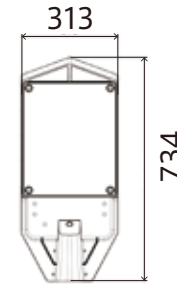
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Power Consumption (at 220V)	117W	134W	150W	159W	167W	202W
Fixture Luminous Flux	15,000lm	17,200lm	19,400lm	20,400lm	21,500lm	25,800lm
Luminous Efficiency	129lm/W	129lm/W	129lm/W	129lm/W	129lm/W	129lm/W
Class of the Lighting	ME3~ME6	ME2~ME6	ME1~ME6	ME1~ME6	ME1~ME6	ME1~ME6
Type of Road	general	general	general /expressway	general /expressway	general /expressway	expressway

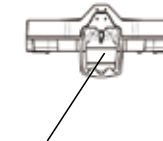
Material:	Body: aluminum die-cast, Outer lens: tempered glass
Color Temperature:	4000K
Water and Dust Resistance:	IP66
Life of LED' s Light Source:	60,000h (lumen maintenance factor 70%)
Shock Resistance:	IK08
Vibration Resistance:	2G
Wind Resistance:	60m/s
Input Voltage:	rated voltage AC 100~240V (AC 90~305V)
Lightning Surge Protection Pressure Resistance:	20 kV (Common mode)

External Dimension

unit: mm

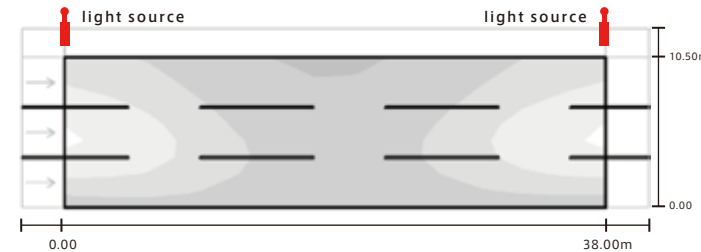


range of boom angle: 5-25°



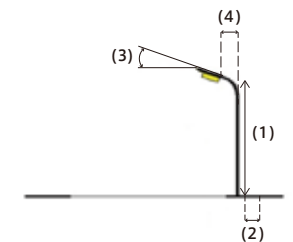
φ48 ~ φ60.5

Simulation of Light Distribution



Computational Condition

number of traffic lanes : 3
 fixture : LLF0016A/LEN2/72/E/IN/A
 installation height (1) : 12.3m
 overhang (2) : 0.417m
 inclination angle of the boom (3) : 5°
 boom length : 0m
 space between poles : 38m
 maintenance factor : 0.7



average illuminance :	22lux
uniformity ratio of illuminance 1 (overall)(min/ave) :	0.42
uniformity ratio of illuminance 2 (overall)(min/ave) :	0.23