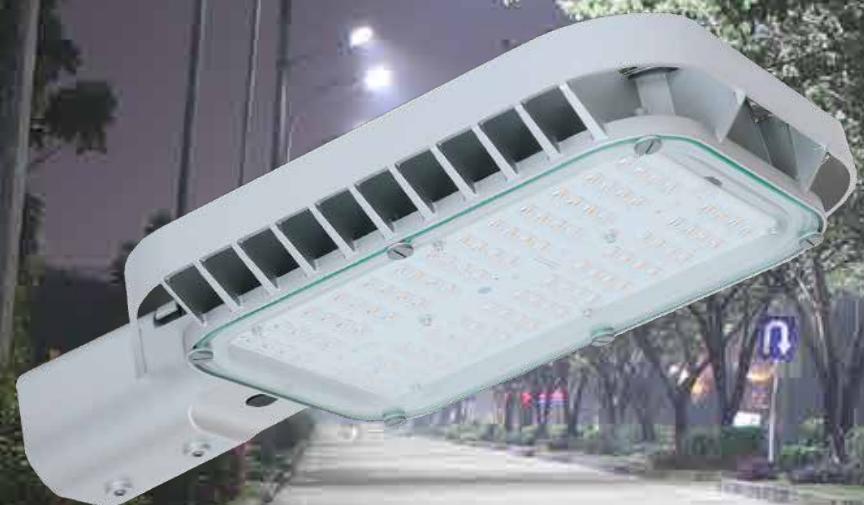


Road Lighting

LED Road Lighting

LLF0017A



Providing light and safety to roads



LED Road Lighting LLF0017A



Features

Design that suits urban areas

The radiation fin is placed around the light source part and is designed with slits to avoid accumulation of dust.

High tolerance to UV

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

High tolerance to heat

Ambient temperature is 55°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.

Maintenance & upgrade

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

High brightness & efficiency

Materialized 0.94cd/ m² with power consumption 90W, while the standard brightness value of EU roads is ≥ 0.75 .

Design Concept

We materialized this compact and lightweight body while having the power source built in the fixture. 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. Its wide light-distribution and high coefficient of utilization allow a minimized number of installation of fixture. 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



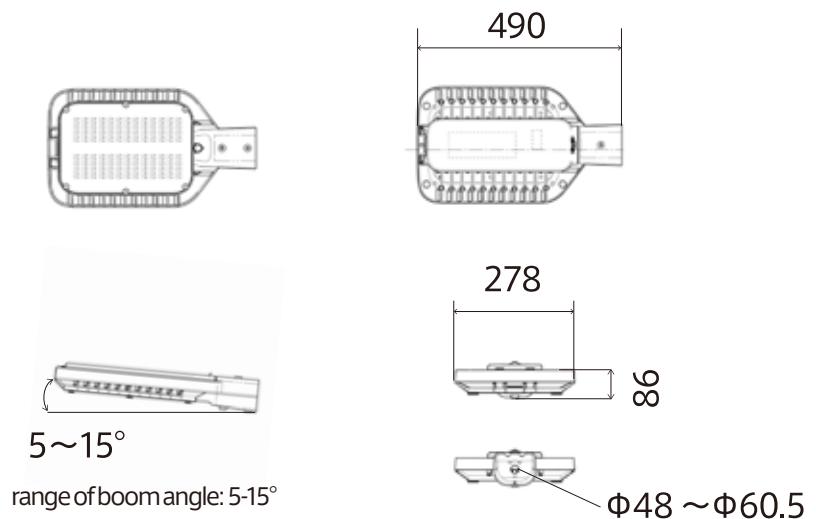
Front

Back

Side

External Dimension

unit: mm

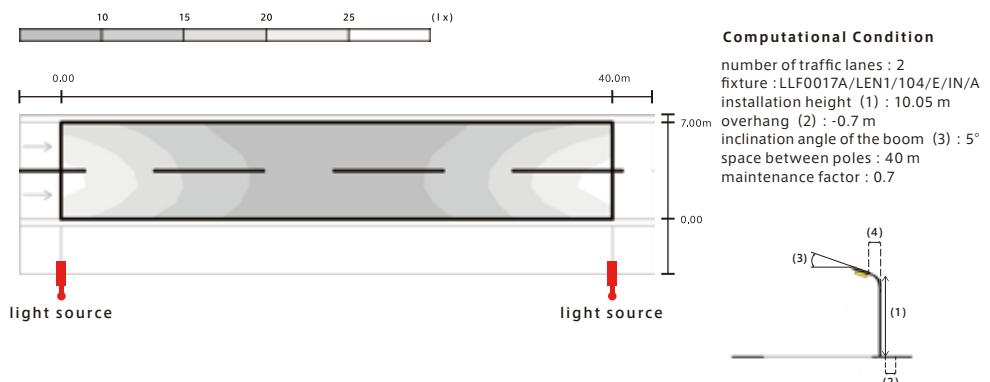


Specifications

Part No.	Power Consumption (at 220V)	42W	70W	90W
LLF0017A	Fixture Luminous Flux	5300lm	8400lm	11000lm
	Luminous Efficiency	126lm/W	120lm/W	122lm/W

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
Ambient Temperature:	-40 ~ +55 °C
Wind Resistance:	60m/s
Input Voltage:	rated voltage AC100 ~ 240V (AC90 ~ 305V) 42W type has rated voltage AC200-240V (AC160-305V)
Lightning Surge Protection Pressure Resistance:	10 kV (Common mode)
Weight:	5.0 kg
Height of Installation:	6 ~ 12m
Compatible Pole:	Φ60.5mm×100mm

Simulation of Light Distribution



uniformity ratio of illuminance (longitudinal) : 0.75

uniformity ratio of illuminance (overall)(min/ave) : 0.51

lighting classification : ME4a

average brightness : 0.95

relative threshold increase : 13

Computational Condition
number of traffic lanes : 2
fixture : LLF0017A/LEN1/104/E/IN/A
installation height (1) : 10.05 m
overhang (2) : -0.7 m
inclination angle of the boom (3) : 5°
space between poles : 40 m
maintenance factor : 0.7