Unilumin

LED
STREET LIGHT

MAKO
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Unilumin

TOGETHER, FOR A BRIGHTER FUTURE

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UNILUMIN GROUP CO ., LTD

About Unilumin

Established in 2004, is a world-class LED lighting and display solution provider. As a key business of Unilumin Group, Unilumin Lighting has established a firm foothold in the LED lighting industry and has been a trusted global partner offering comprehensive lighting solutions and exceptional customer service. Our relentless dedication to R&D and customer satisfaction has positioned Unilumin as a top LED lighting brand, known for our worldwide presence and core competitive edges.

Why Choose Unilumin

18 Years of Outdoor Lighting Expertise

ISO/IEC 17025 Accredited LAB & Precise Automatic Production

Flexible Customization Services

Recognized by Clients in Over **80** Countries

CE CB ⌇ RoHS

Mako Series

Mako brings reliable, high-quality lighting that keeps streets safe and vibrant. Its wide power range and flexible voltage make it easy to deploy across different road types, while bright, energy-efficient LEDs reduce electricity costs. The durable aluminum and tempered glass housing ensures long-term performance with minimal maintenance, and tool-free access plus adjustable angles make installation quick and hassle-free. Built to withstand harsh weather, Mako supports smart control for precise lighting management, helping cities save time, energy, and maintenance costs.

Features & Benefits

1. Die-cast aluminum alloy housing with tempered glass
2. Tool-free up-opening cover design enables quick and easy maintenance
3. Ip66 waterproof and IK08 impact resistant
4. ±15° horizontal and vertical angle adjustment in 5° steps
5. Supports NEMA and ZHAGA interfaces for smart control
6. Compatible with Φ60mm pole diameter
7. Equipped with a breather to balance pressure and prevent siphon-induced water ingress
8. Compatible with standard Zhaga LED modules

Application

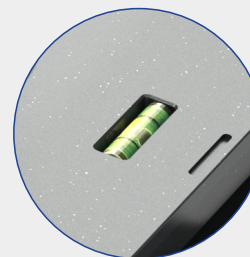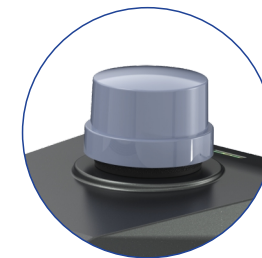|				
Urban & Residential Street	Pedestrian Path	Park & Square	Rural Road	Bridge

Tool-Free Top Cover Design

Simplifying maintenance and saving time

Smart-ready & Future-proof

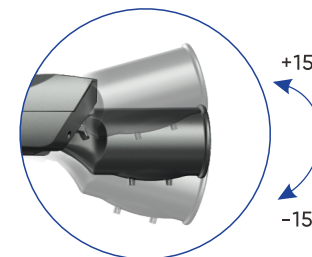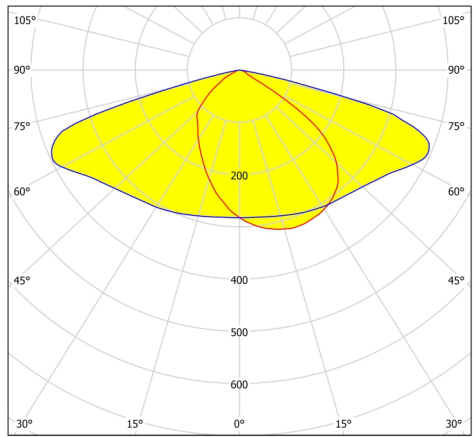NEMA and ZHAGA interfaces are optional

Built-in Level

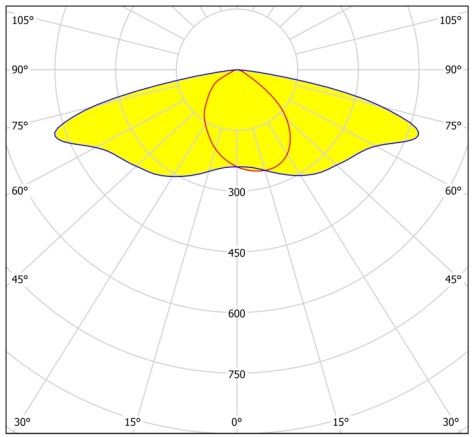Enables quick and accurate installation

Flexible Mounting Angle Adjustment

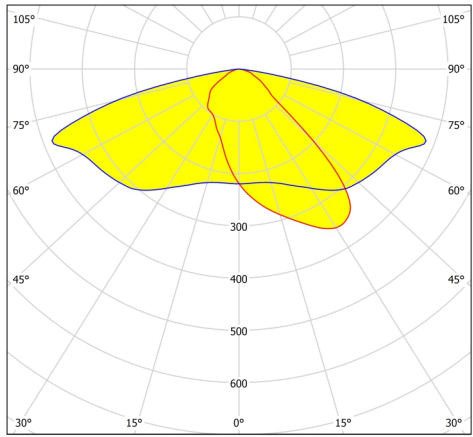Achieve the ideal installation angle
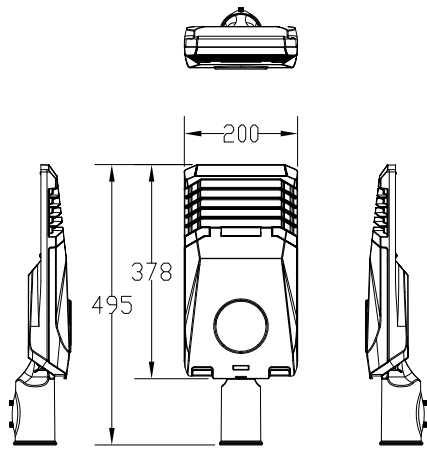to suit your needs

+15°
-15°

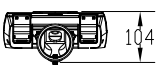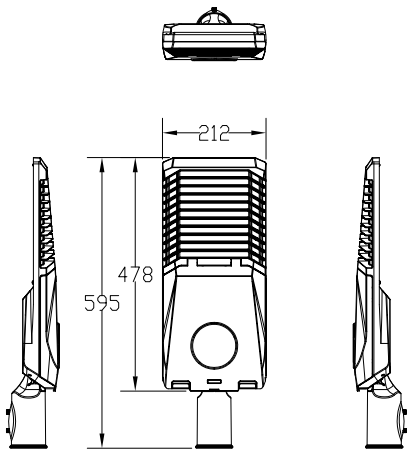## Typical Light Distributions
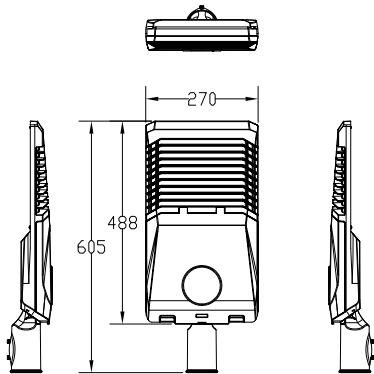

Type II-618

Type II-710

Type III-830

Dimensions

200

378

495

104

UNI-STF7-1

212

478

595

104

UNI-STF7-2

270

488

605

104

UNI-STF7-3

280

615

732

104

UNI-STF7-4

cd/klm   C0 - C180   C90 - C270   η = 100%
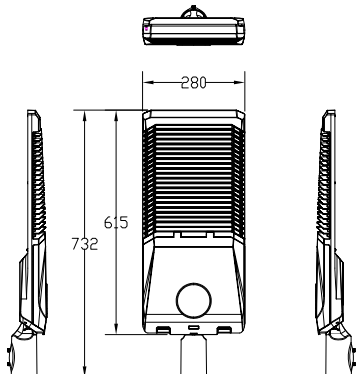
Parameters

Product Model	UNI-STF7-1-40	UNI-STF7-1-60	UNI-STF7-2-90	UNI-STF7-2-100
Input Voltage	AC100-277V 50/60Hz			
Power (W)	40	60	90	100
Power Factor	≥0.92	≥0.95	≥0.95	≥0.95
Luminous Flux (lm)	7200	10800	16200	18000
Luminous Efficacy	180lm/W			
LED	Domestic/5050			
Driver	Philips/Moso/Inventronics/Sosen			
CCT	3000K/4000K/5000K/5700K/6500K			
CRI	> 70			
Working Temp.	- 40 °C ~ 45 °C (50 °C optional)			
Working Humidity	10 % ~ 90 % RH			
Housing Materials	Die-casting aluminum+ Whole PC lens+ Adjustable angle adaptor			
IP/IK Grade	IP66/IK08			
Life Span (Hrs)	100,000			
Max Projected Area (㎡)	0.09	0.09	0.11	0.11
Product Dimension (mm)	495×200×104	495×200×104	595×212×104	595×212×104
Net Weight(kg)	3.3±0.5	3.3±0.5	3.8±0.5	3.8±0.5

Product Model	UNI-STF7-3-120	UNI-STF7-3-150	UNI-STF7-4-180	UNI-STF7-4-200	UNI-STF7-4-240
Input Voltage	AC100-277V 50/60Hz				
Power (W)	120	150	180	200	240
Power Factor	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95
Luminous Flux (lm)	21600	27000	32400	36000	43200
Luminous Efficacy	180lm/W				
LED	Domestic/5050				
Driver	Philips/Moso/Inventronics/Sosen				
CCT	3000K/4000K/5000K/5700K/6500K				
CRI	> 70				
Working Temp.	- 40 °C ~ 45 °C (50 °C optional)				
Working Humidity	10 % ~ 90 % RH				
Housing Materials	Die-casting aluminum+ Whole PC lens+ Adjustable angle adaptor				
IP/IK Grade	IP66/IK08				
Life Span (Hrs)	100,000				
Max Projected Area (㎡)	0.14	0.14	0.16	0.16	0.16
Product Dimension (mm)	605×270×104	605×270×104	667×270×104	667×270×104	667×270×104
Net Weight(kg)	4.7±0.5	4.7±0.5	6.5±0.5	6.5±0.5	6.5±0.5

Note: The tolerance of Luminous Flux is ±7%

Adapter

- Dual-purpose spigots for side entry and post top installation -15°to + 15° maximum tilt steps in 5°
- Constructed from robust die-casting aluminum
- Stainless steel bolts
- 60 mm diameter options cater for existing or newly fabricated light poles
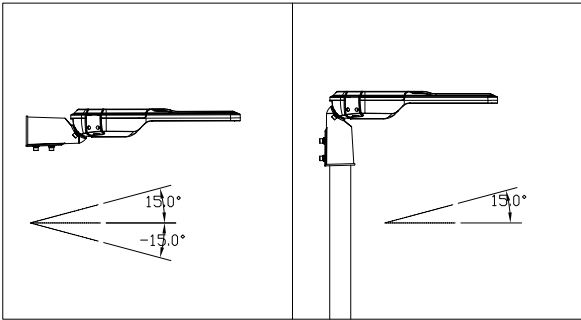
Controller

NEMA Control

ZHAGA Control

Features

- With PWM and 0-10V dimming interfaces
- Acquiring data like current, voltage, power and power factor
- Analyzing and reporting of power consumption and energy saving
- Monitoring and detecting the status of LED luminaire
- Automatic faulty reporting function
- With surge protection
- IP65 rated

Communication Interface	Communication Method	Communication Distance	Dimming Signal
NEMA	LoRa / ZigBee NB / 4G LTE	LoRa: 1000M; ZigBee: 200M NB: ∞; 4G LTE: ∞	PWM 0-10v
ZHAGA	NB / 4G LTE	NB: ∞; 4G LTE: ∞	DALI 0-10v