Unilumin

TOGETHER, FOR A BRIGHTER FUTURE

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Unilumin

LED STREET LIGHT

MANTA



UNILUMIN GROUP CO ., LTD



GOLD AWARD 2022

Manta Series
The Winner of DFA Gold Award 2022

- Smart-Ready
- Future-Proof
- Tool-free Maintenance
- Circular Economy Initiative



Manta Series

Manta is a highly efficient LED street light, dark sky friendly and developed with enhanced innovative detachable solution for easy maintenance. With 4 product sizes ranging from 20-240W, Manta meet the needs for various applications, such as highway, urban road & street, residential street and even in harsh environments.

Features & Benefits

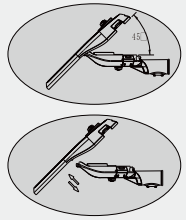
1. Die-casting aluminum housing, special oxidation and excellent thermal performance, corrosion resistance, anti-aging, and longer life span
2. Easy maintenance with tool-free replacement of optical compartment and electrical module
3. -20° to +15° tilt steps for easy and quick on-site optical compartment adjustment
4. Pleasing and proven product design for a better city image
5. Compatible with both post top and side entry installations
6. Future-proof and smart-ready with NEMA and Zhaga controls
7. Φ42, 60, 76mm spigots are optional
8. Bubble level for easier installation

Application

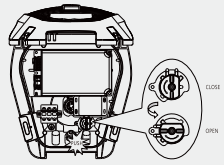
Urban & Residential Street | Pedestrian Path | Park & Square | Rural Road | Bridge

Enhanced tool-free replacement



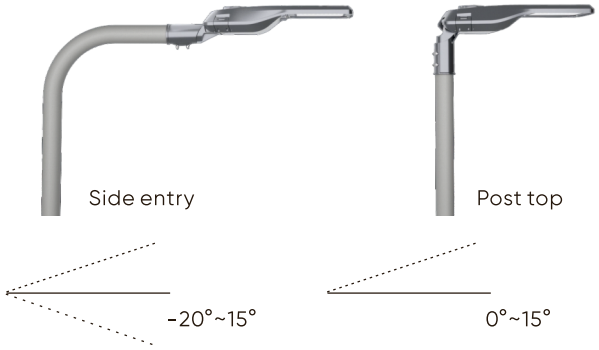


Optical compartment



Electrical module

Flexible installation and angle adjustment



Top-class lighting performance

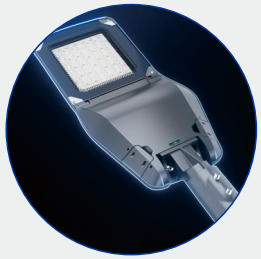
Various precise light distribution optics and top brand LEDs optional





Bubble level

Ensure ease of installation more user-friendly

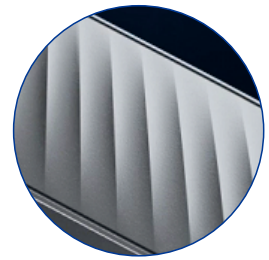


Reliable with high protection

Die-casting aluminum alloy 10/20kV surge protection

Integrated heat sink

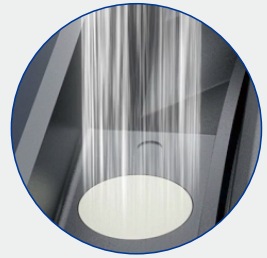
Integrated heat sink enhances thermal and system performance



Future-proof & smart-ready

Compatible with NEMA and Zhaga interfaces

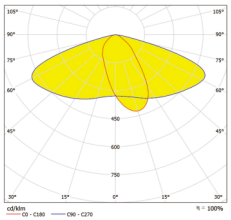




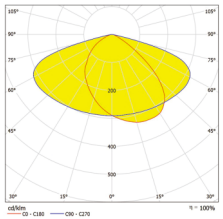
Breathing valve

Avoid fogging and condensation inside

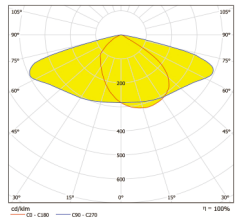
Light Distributions



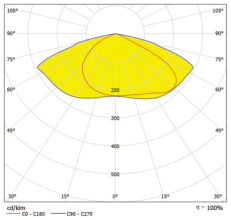
Type Ⅰ(UNI-691)



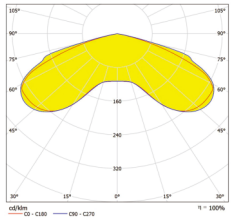
Type Ⅱ(UNI-540)



Type Ⅱ(UNI-618)



Type Ⅲ(UNI-712)



Type V(UNI-685)

3030 Light Source

Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25℃		3000K Ra70@Ta=25℃	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
20	32	UNI-540	130 lm/W	2600 lm	120 lm/W	2400 lm
30	32			3900 lm		3600 lm
40	48			5200 lm		4800 lm
50	48			6500 lm		6000 lm
60	64			7800 lm		7200 lm
90	96			11700 lm		10800 lm
120	120			15600 lm		14400 lm
150	160			19500 lm		18000 lm
180	192			23400 lm		21600 lm
200	192			26000 lm		24000 lm
240	240			31200 lm		28800 lm

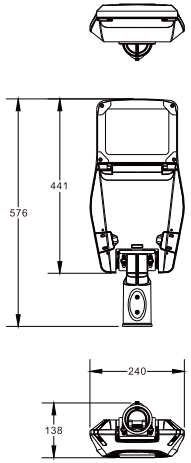
5050 Light Source

Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25℃		3000K Ra70@Ta=25℃	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
20	18	UNI-618	150 lm/W	3000 lm	140 lm/W	2800 lm
30	24			4500 lm		4200 lm
40	24			6000 lm		5600 lm
50	30			7500 lm		7000 lm
60	30			9000 lm		8400 lm
90	42			13500 lm		12600 lm
120	54			18000 lm		16800 lm
150	64			22500 lm		21000 lm
180	84			27000 lm		25200 lm
200	84			30000 lm		28000 lm
240	108			36000 lm		33600 lm

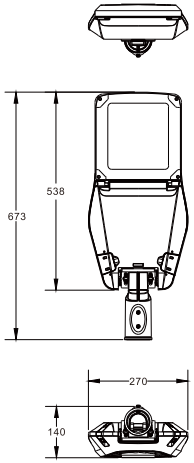
Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25℃		3000K Ra70@Ta=25℃	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
20	24	UNI-618	160 lm/W	3200 lm	150 lm/W	3000 lm
30	36			4800 lm		4500 lm
40	46			6400 lm		6000 lm
50	54			8000 lm		7500 lm
60	54			9600 lm		9000 lm
90	60			14400 lm		13500 lm
120	72			19200 lm		18000 lm
150	90			24000 lm		22500 lm
180	100			28800 lm		27000 lm
200	112			32000 lm		30000 lm
240	126			38400 lm		36000 lm

The luminaire efficacies are the typical values, ±7% tolerance is reserved.

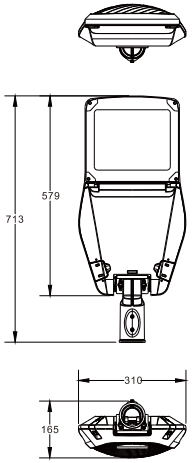
Dimensions



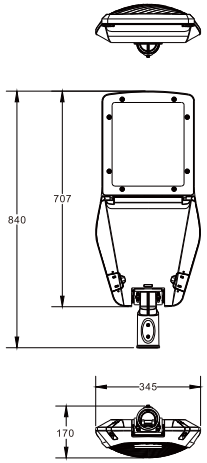
UNI-STC3-1(20-60W)



UNI-STC3-2(40-60W)
UNI-STC3-3(90W)



UNI-STC3-4(120-150W)



UNI-STC3-5(180-240W)

Parameters



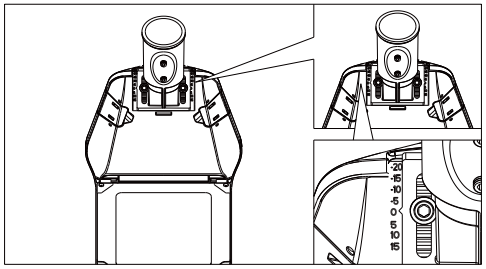
Product Model	Micro UNI-STC3-1	Mini UNI-STC3-2/3	Midi UNI-STC3-4	Maxi UNI-STC3-5
Input Voltage	AC100-277V 50/60Hz			
Rated Power	20-60W	60-90W	120-150W	180-240W
Luminous Efficacy	130-160lm/W			
Luminous Flux	2600-9600lm	7800-14400lm	15600-24000lm	23400-38400lm
CCT	2200K/2700K/3000K/4000K/5000K/5700K			
CRI	70			
Materials	Die-casting aluminum +tempered glass			
IP / IK	IP66/IK08			
Luminaire Dimension(mm)	576×240×138	673×270×140	713×310×165	840×345×170
Packing Dimension(mm)	525×345×215	655×345×215	695×385×215	830×420×210
Net Weight(kg)	4.0±0.5	5.0/5.5±0.5	7.0±0.5	9.0/9.2±0.5
Gross Weight(kg)	5.0±0.5	6.5/7.0±0.5	9.0±0.5	11.0/11.2±0.5

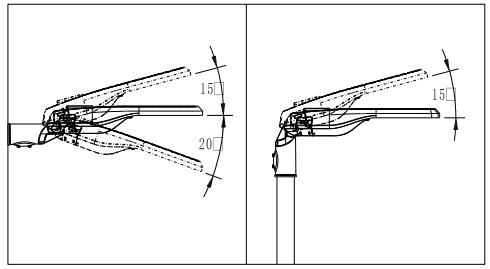
Note: The tolerance of Luminous Flux is ±7%

Adapter



- Dual-purpose spigots for side entry and post top installation -20°to + 15° maximum tilt steps in 5°
- Constructed from robust die-casting aluminum
- Stainless steel bolts
- 42 / 60 / 76 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





