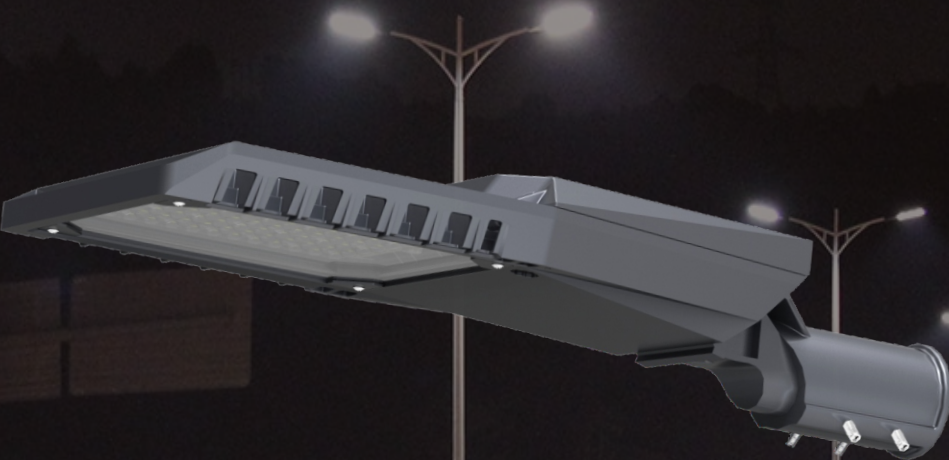


*Unilumin*

**STREET LIGHT  
SERIES  
TUNA**



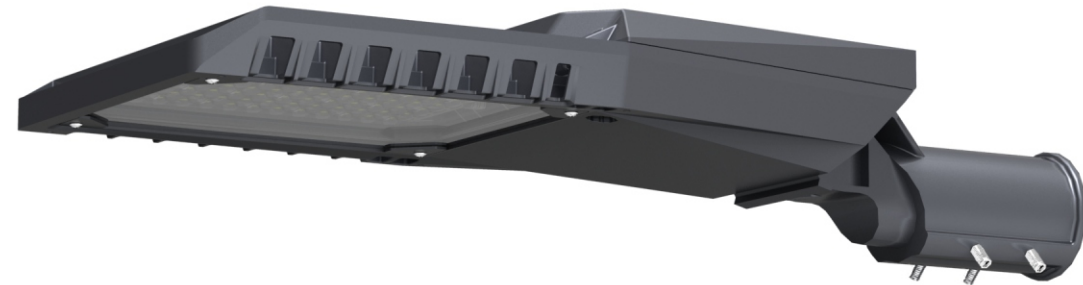
**Unilumin**

Stock Code: 300232

Together, for a brighter future

**TOGETHER,  
FOR A BRIGHTER FUTURE**

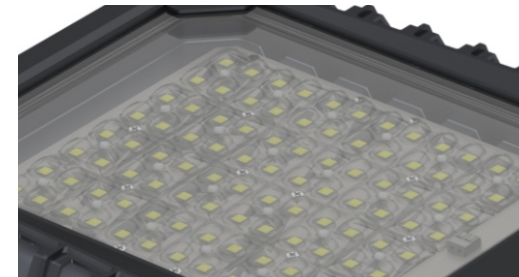




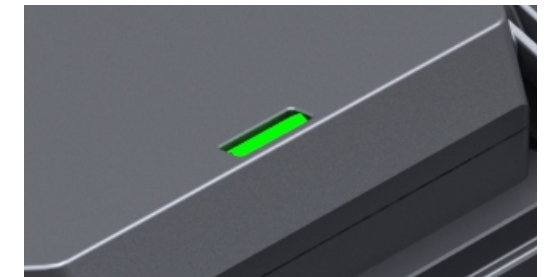
# TUNA SERIES

Tuna is a highly efficient LED street luminaire thanks to the excellent optical system. Designed for large-scale public lighting projects, Tuna is the ideal luminaire for municipalities. With its high efficiency and low initial cost, Tuna enables a fast payback and significant savings in terms of energy consumption. Available with different optics and lumen packages, Tuna is flexible in outdoor lighting applications.

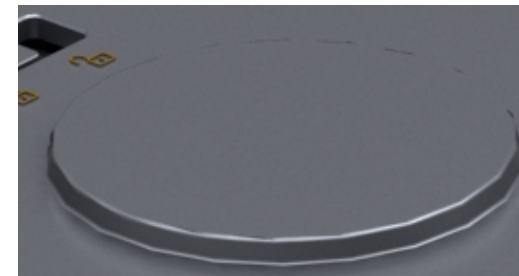
## Details



Precise optics and highly efficient LED



Bubble level



NEMA Interface

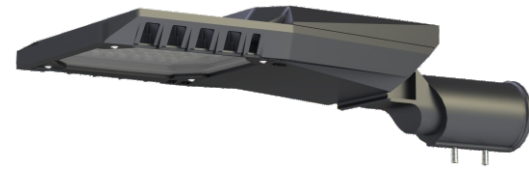


Tool-free access

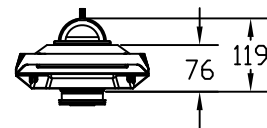
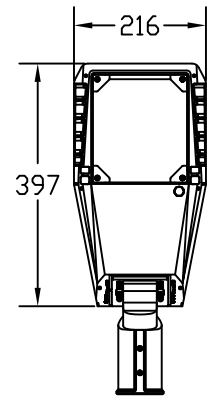
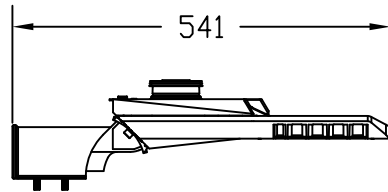
## FEATURES & BENEFITS

- Five product sizes offer lumen packages from 3100 to 31000lm
- Cost effective with high luminaire efficacy up to 155lm/w enabling fast payback
- Die-casting aluminum housing, robust and durable
- Quick tool-free latch access to the driver compartment for easy maintenance
- Future-proof and smart ready with NEMA interface alternative
- Excellent thermal management design ensures better performance
- Compatible with both post top and side entry installations
- -20° to +15° tilt steps for easy and quick on-site optical compartment adjustment
- Mounting interface  $\Phi 42\text{mm}$ ,  $\Phi 60\text{mm}$  and  $\Phi 76\text{mm}$  optional
- Built-in bubble level for easy installation
- Precise and multiple highly-yield optical lens cater to extensive applications

Micro



UNI-STB9-1(20-40W)



Basic

LED: Osram / Lumileds  
 Driver: Inventronics / MOSO  
 Insulation Class: Class I / Class II (optional)  
 Protection Grade: IP66 / IK08  
 Nominal CCT: 3000 / 4000 / 5000 / 5700 / 6500K  
 Pole Diameter: Ø60mm / Ø42mm , Ø76mm (optional)

Environment

Operating Temperature: -40°C~ 45°C  
 Operating Humidity: 10% ~ 90%RH  
 Storage Temperature: -40°C~ 55°C

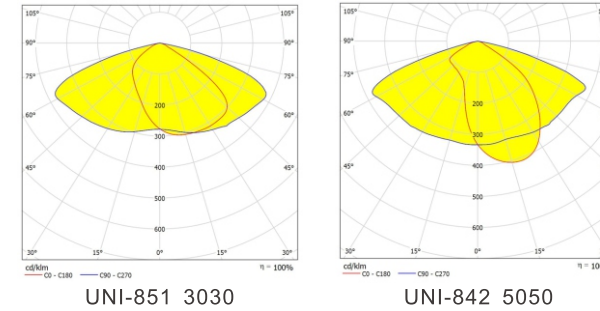
Electronics

Input Voltage: AC220~240V / 100~240V / 100-277V  
 Frequency: 50 / 60Hz  
 Power Factor: 0.92  
 Surge Protection: 10KV / 20KV  
 Control Options: Photocontrol (NEMA)  
 / Timmer Control / 0~10V Dimming  
 / DALI Control / NEMA 3 / 5 / 7-pin  
 / Solar Compatible (optional)

Structure

Max Projected Area: 0.09m<sup>2</sup>  
 Housing Material: Die Casting Aluminum  
 Luminaire Dimension: 541×216×119mm  
 Packing Dimension: 540×315×205mm  
 Net Weight: 3.5±0.2Kg  
 Gross Weight: 4.5±0.2Kg

Main Parameters



3030 Light Source

Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25°C		3000K Ra70@Ta=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
20	24	UNI-851	125 lm/W	2500 lm	117 lm/W	2340 lm
30	32	UNI-851	125 lm/W	3750 lm	117 lm/W	3510 lm
40	40	UNI-851	125 lm/W	5000 lm	117 lm/W	4680 lm

5050 Light Source

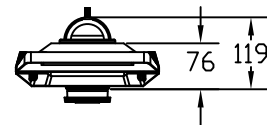
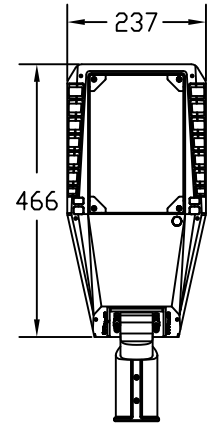
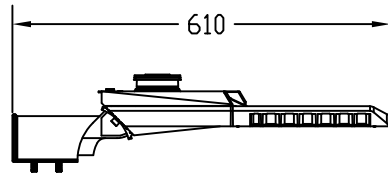
Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25°C		3000K Ra70@Ta=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
20	24	UNI-842	155 lm/W	3100 lm	145 lm/W	2900 lm
30	36	UNI-842	155 lm/W	4650 lm	145 lm/W	4350 lm
40	46	UNI-842	155 lm/W	6200 lm	145 lm/W	5800 lm

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

Mini



UNI-STB9-2(50-75W)



Basic

LED: Osram / Lumileds  
 Driver: Inventronics / MOSO  
 Insulation Class: Class I / Class II (optional)  
 Protection Grade: IP66 / IK08  
 Nominal CCT: 3000 / 4000 / 5000 / 5700 / 6500K  
 Pole Diameter: Ø60mm / Ø42mm, Ø76mm (optional)

Environment

Operating Temperature: -40°C~ 45°C  
 Operating Humidity: 10% ~ 90%RH  
 Storage Temperature: -40°C~ 55°C

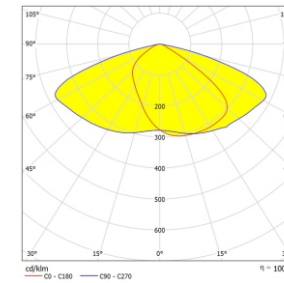
Electronics

Input Voltage: AC220~240V / 100~240V / 100-277V  
 Frequency: 50 / 60Hz  
 Power Factor: 0.92  
 Surge Protection: 10KV / 20KV  
 Control Options: Photocontrol (NEMA)  
 / Timmer Control / 0~10V Dimming  
 / DALI Control / NEMA 3 / 5 / 7-pin  
 / Solar Compatible (optional)

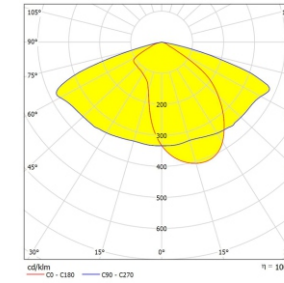
Structure

Max Projected Area: 0.11m<sup>2</sup>  
 Housing Material: Die Casting Aluminum  
 Luminaire Dimension: 610×237×119mm  
 Packing Dimension: 540×345×205mm  
 Net Weight: 4.0±0.2Kg  
 Gross Weight: 5.0±0.2Kg

Main Parameters



UNI-851 3030



UNI-842 5050

3030 Light Source

Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25°C		3000K Ra70@Ta=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
50	48	UNI-851	125 lm/W	6250 lm	117 lm/W	5850 lm
60	64	UNI-851	125 lm/W	7500 lm	117 lm/W	7020 lm
75	80	UNI-851	125 lm/W	9375 lm	117 lm/W	8775 lm

5050 Light Source

Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25°C		3000K Ra70@Ta=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
50	54	UNI-842	155 lm/W	7750 lm	145 lm/W	7250 lm
60	54	UNI-842	155 lm/W	9300 lm	145 lm/W	8700 lm
75	60	UNI-842	155 lm/W	11625 lm	145 lm/W	10875 lm

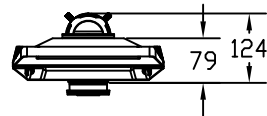
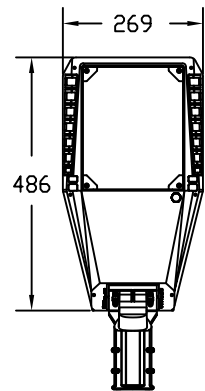
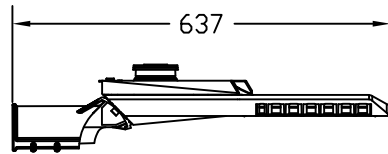
The luminaire efficacies are the typical values, ±7% tolerance is reserved.



# Mini-plus



UNI-STB9-3(90-120W)



## Basic

LED: Osram / Lumileds  
 Driver: Inventronics / MOSO  
 Insulation Class: Class I / Class II (optional)  
 Protection Grade: IP66 / IK08  
 Nominal CCT: 3000 / 4000 / 5000 / 5700 / 6500K  
 Pole Diameter: Ø60mm / Ø42mm, Ø76mm (optional)

## Environment

Operating Temperature: -40°C~ 45°C  
 Operating Humidity: 10% ~ 90%RH  
 Storage Temperature: -40°C~ 55°C

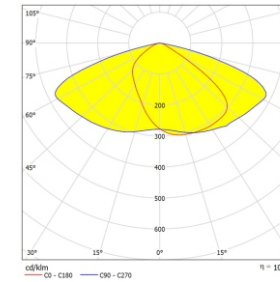
## Electronics

Input Voltage: AC220~240V / 100~240V / 100-277V  
 Frequency: 50 / 60Hz  
 Power Factor: 0.95  
 Surge Protection: 10KV / 20KV  
 Control Options: Photocontrol (NEMA)  
 / Timmer Control / 0~10V Dimming  
 / DALI Control / NEMA 3 / 5 / 7-pin  
 / Solar Compatible (optional)

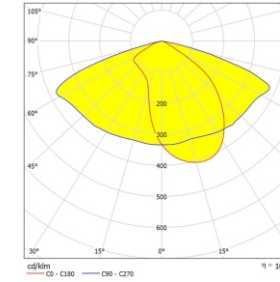
## Structure

Max Projected Area: 0.13m<sup>2</sup>  
 Housing Material: Die Casting Aluminum  
 Luminaire Dimension: 637×269×124mm  
 Packing Dimension: 565×345×215mm  
 Net Weight: 6.0±0.2Kg  
 Gross Weight: 7.5±0.2Kg

# Main Parameters



UNI-851 3030



UNI-842 5050

## 3030 Light Source

Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25°C		3000K Ra70@Ta=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
90	96	UNI-851	125 lm/W	11250 lm	117 lm/W	10530 lm
100	96	UNI-851	125 lm/W	12500 lm	117 lm/W	11700 lm
120	120	UNI-851	125 lm/W	15000 lm	117 lm/W	14040 lm

## 5050 Light Source

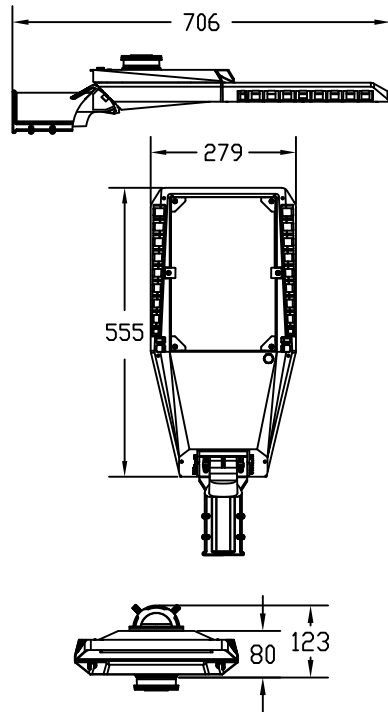
Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25°C		3000K Ra70@Ta=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
90	60	UNI-842	155 lm/W	13950 lm	145 lm/W	13050 lm
100	60	UNI-842	155 lm/W	15500 lm	145 lm/W	14500 lm
120	72	UNI-842	155 lm/W	18600 lm	145 lm/W	17400 lm

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

Midi



UNI-STB9-4(150W)



Basic

LED: Osram / Lumileds  
 Driver: Inventronics / MOSO  
 Insulation Class: Class I / Class II (optional)  
 Protection Grade: IP66 / IK08  
 Nominal CCT: 3000 / 4000 / 5000 / 5700 / 6500K  
 Pole Diameter: Ø60mm / Ø42mm , Ø76mm (optional)

Environment

Operating Temperature: -40°C~ 45°C  
 Operating Humidity: 10% ~ 90%RH  
 Storage Temperature: -40°C~ 55°C

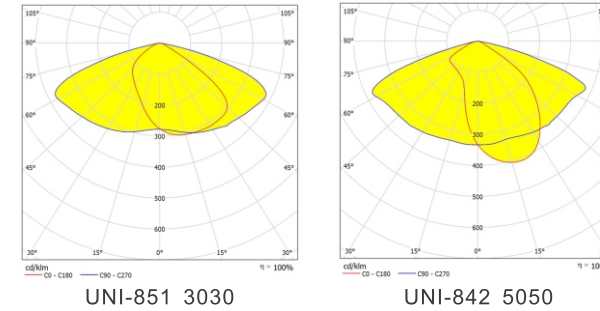
Electronics

Input Voltage: AC220~240V / 100~240V / 100-277V  
 Frequency: 50 / 60Hz  
 Power Factor: 0.95  
 Surge Protection: 10KV / 20KV  
 Control Options: Photocontrol (NEMA)  
 / Timmer Control / 0~10V Dimming  
 / DALI Control / NEMA 3 / 5 / 7-pin  
 / Solar Compatible (optional)

Structure

Max Projected Area: 0.15m<sup>2</sup>  
 Housing Material: Die Casting Aluminum  
 Luminaire Dimension: 706×279×123mm  
 Packing Dimension: 645×360×215mm  
 Net Weight: 6.5±0.2Kg  
 Gross Weight: 8.0±0.2Kg

Main Parameters



3030 Light Source

Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25°C		3000K Ra70@Ta=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
150	160	UNI-851	125 lm/W	18750 lm	117 lm/W	17550 lm

5050 Light Source

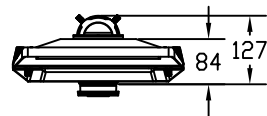
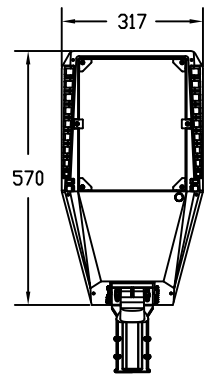
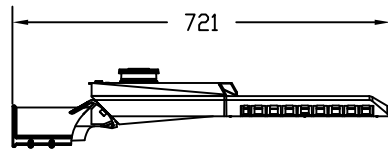
Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25°C		3000K Ra70@Ta=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
150	90	UNI-842	155 lm/W	23250 lm	145 lm/W	21750 lm

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

# Maxi



UNI-STB9-5(180-200W)



## Basic

LED: Osram / Lumileds  
 Driver: Inventronics / MOSO  
 Insulation Class: Class I / Class II (optional)  
 Protection Grade: IP66 / IK08  
 Nominal CCT: 3000 / 4000 / 5000 / 5700 / 6500K  
 Pole Diameter: Ø60mm / Ø42mm, Ø76mm (optional)

## Environment

Operating Temperature: -40°C~ 45°C  
 Operating Humidity: 10% ~ 90%RH  
 Storage Temperature: -40°C~ 55°C

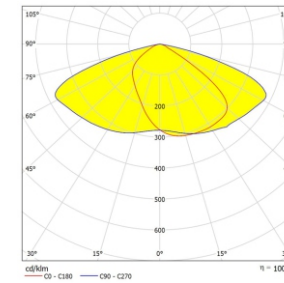
## Electronics

Input Voltage: AC220~240V / 100~240V / 100-277V  
 Frequency: 50 / 60Hz  
 Power Factor: 0.95  
 Surge Protection: 10KV / 20KV  
 Control Options: Photocontrol (NEMA)  
 / Timmer Control / 0~10V Dimming  
 / DALI Control / NEMA 3 / 5 / 7-pin  
 / Solar Compatible (optional)

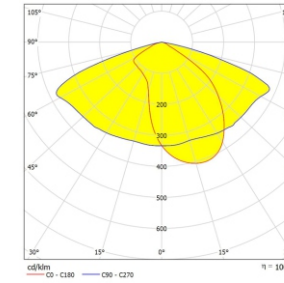
## Structure

Max Projected Area: 0.18m<sup>2</sup>  
 Housing Material: Die Casting Aluminum  
 Luminaire Dimension: 721×317×127mm  
 Packing Dimension: 675×415×215mm  
 Net Weight: 7.5±0.2Kg  
 Gross Weight: 9.5±0.2Kg

# Main Parameters



UNI-851 3030



UNI-842 5050

## 3030 Light Source

Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25°C		3000K Ra70@Ta=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
180	192	UNI-851	125 lm/W	22500 lm	117 lm/W	21060 lm
200	192	UNI-851	125 lm/W	25000 lm	117 lm/W	23400 lm

## 5050 Light Source

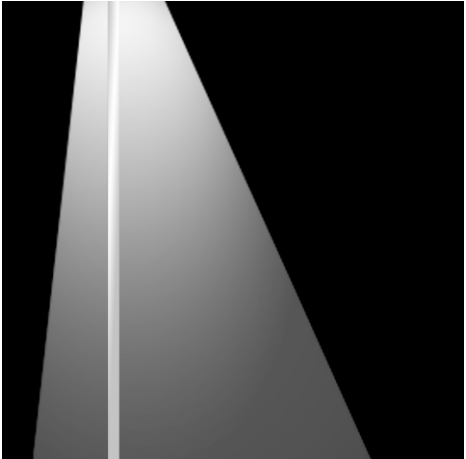
Power (W)	LED QTY (pcs)	Light Distribution	4000K Ra70@Ta=25°C		3000K Ra70@Ta=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
180	100	UNI-842	155 lm/W	27900 lm	145 lm/W	26100 lm
200	112	UNI-842	155 lm/W	31000 lm	145 lm/W	29000 lm

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

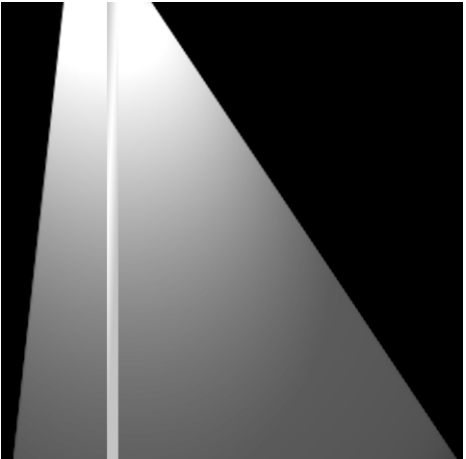


# Light Distributions

With 6 optical distributions for ultimate flexibility and precise lighting control



Type II  
Typical applications:  
Narrow roads and footpaths



Type III  
Typical applications:  
Wide roads

# Spigot

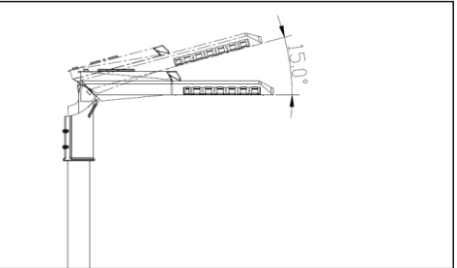
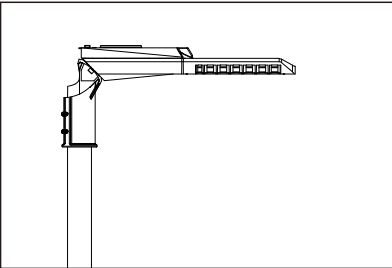
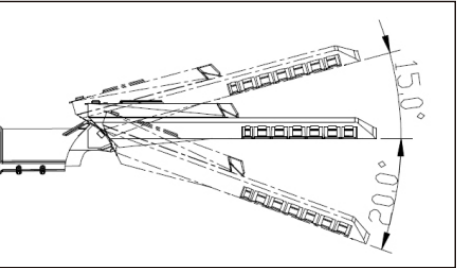
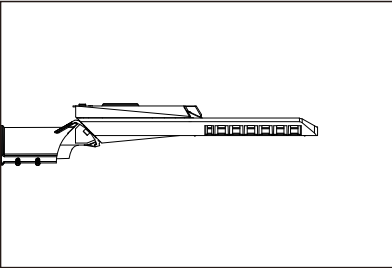


Micro~Mini



Mini Plus~Maxi

- Dual-purpose spigots for side entry and post top installation -20° to +15° maximum tilt steps in 5-degree
- Constructed from robust die-casting aluminum
- Stainless steel hardware
- 42 / 60 / 76 mm diameter options cater for existing or newly fabricated light poles



## Controller



NEMA Control

### Features

- With PWM and 0-10V dimming interfaces
- With the data acquisition of parameters like current, voltage, power and power factor
- With reporting the analysis of power consumption and energy saving
- With monitoring and detecting the status of LED luminaire
- Automatic faulty reporting function
- With surge protection function
- 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

**Unilumin**