

SL02-Series



KEY ADVANTAGES

- Maximize energy savings and lower maintenance costs
- A new generation of self-developed multi-angle T2/T3/T4 lenses, offering high-efficiency lighting, comfort and safety
- 4 sizes to provide the most accurate solution for numerous road and urban applications
- Tool-free access with a clear, perceptible click upon closing
- Die-cast aluminum heat sink with smooth surface design to ensure high-quality heat dissipation and automatic cleaning function
- Optional NEMA or ZHAGA socket function, realize energy saving needs
- Wide range of operating temperatures

TYPES OF APPLICATION

- URBAN & RESIDENTIAL STREETS
- BRIDGES
- BIKE & PEDESTRIAN PATHS
- RAILWAY STATIONS & METROS
- CAR PARKS
- SQUARES & PEDESTRIAN AREAS
- ROADS & MOTORWAYS



BRIDGES



URBAN & RESIDENTIAL STREETS



BIKE & PEDESTRIAN PATHS



RAILWAY STATIONS & METROS



CAR PARKS



SQUARES & PEDESTRIAN AREAS



ROADS & MOTORWAYS



GENERAL INFORMATION

Driver included	Yes
CE mark	Yes
RoHS compliant	Yes
Safety features	Open circuit protection Short circuit protection Overvoltage protection
Testing standard	LM-79-19 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	Diecasting aluminium
Optic	Polycarbonate
Protector	Glass
Housing finish	Electrostatic polyester powder coating
Standard colour(s)	RAL 7040
Tightness level	IP 66
Impact resistance	IK 08
Vibration test	Yes
Mounting holes	H:6-8M $\Phi=60\text{MM}$ H:10-12M $\Phi=60\text{MM}$

OPERATING CONDITIONS

Operating temperature range (Ta)	-35°C to + 50°C
Operating Humidity	10-90%RH
Mounting Option	Vertical pole mounted
Warranty	5 years

PERFORMANCE

Power	20W/30W/40W/50W/60W/70W/80W/90W/ 100W/110W/120W/130W/140W/150W/160W/ 170W/180W/190W/200W/210W/220W/230W/ 240W
Efficacy	130-170lm/W
Power Efficiency	≥85%
Start Time	≤0.2S

ELECTRICAL INFORMATION

Electrical class	Class I
Nominal voltage	120-277V 50/60Hz
Power factor (at full load)	0.95@120VAC
Surge protection options (kV)	10KV-Line-Line / 10KV-Line-Earth
Electromagnetic compatibility (EMC)	EN 55015:2019/A11:2020, EN 61000-3-2:2019, EN 61000-3-3:2013, EN 61547:2009, EN 62493:2015
Control protocol(s)	1-10V, Photocell (optional)
Socket	Zhaga (optional) NEMA 3/5/7-pin (optional)
Total Harmonic Distortion(THD)	IEC 61000-3-2 Class C <20%
Driver Type	Constant current(CC)
For fixed Class 1 luminaires, overvoltage protective devices which comply with IEC 61643-11 shall be disconnected from the circuit.	
withstand voltage	1.5KV 60S 10mA

OPTICAL INFORMATION

LED Type	SMD3030
Beam Angle	T2 / T3 / T4
Recommended installation height	6m to 12m
Color Tolerance	Ra70 ≤7 Ra80 ≤5
LED colour temperature	3000-6500K
Colour rendering index (CRI)	CRI>70 standard CRI>80 optional
Upward Light Output Ratio (ULOR)	0%

LIFETIME OF THE LEDS @ TA 25°C

All configurations	
L70B50	>100,000h
L80B20	>50,000h
L90B10	>30,000h
Switching Cycles	>100,000 times

SL02-SERIES | CHARACTERISTICS & PACKAGING

ECO VERSION

POWER	LUMENS	EFFICACY
20W	2,400LM	120LM/W(Ra70)
	2,200LM	110LM/W(Ra80)
30W	3,600LM	120LM/W(Ra70)
	3,300LM	110LM/W(Ra80)
40W	4,800LM	120LM/W(Ra70)
	4,400LM	110LM/W(Ra80)
50W	6,000LM	120LM/W(Ra70)
	5,500LM	110LM/W(Ra80)
60W	8,700LM	145LM/W(Ra70)
	7,500LM	125LM/W(Ra80)
70W	10,150LM	145LM/W(Ra70)
	8,750LM	125LM/W(Ra80)
80W	11,600LM	145LM/W(Ra70)
	10,000LM	125LM/W(Ra80)
90W	13,050LM	145LM/W(Ra70)
	11,250LM	125LM/W(Ra80)
100W	15,000LM	150LM/W(Ra70)
	13,000LM	130LM/W(Ra80)
110W	16,500LM	150LM/W(Ra70)
	14,300LM	130LM/W(Ra80)
120W	18,000LM	150LM/W(Ra70)
	15,600LM	130LM/W(Ra80)
130W	19,500LM	150LM/W(Ra70)
	16,900LM	130LM/W(Ra80)
140W	21,000LM	150LM/W(Ra70)
	18,200LM	130LM/W(Ra80)
150W	22,500LM	150LM/W(Ra70)
	19,500LM	130LM/W(Ra80)
160W	24,000LM	150LM/W(Ra70)
	20,800LM	130LM/W(Ra80)
170W	25,500LM	150LM/W(Ra70)
	22,100LM	130LM/W(Ra80)
180W	27,000LM	150LM/W(Ra70)
	23,400LM	130LM/W(Ra80)
190W	28,500LM	150LM/W(Ra70)
	24,700LM	130LM/W(Ra80)
200W	30,000LM	150LM/W(Ra70)
	26,000LM	130LM/W(Ra80)
210W	30,450LM	145LM/W(Ra70)
	26,250LM	125LM/W(Ra80)
220W	31,900LM	145LM/W(Ra70)
	27,500LM	125LM/W(Ra80)
230W	33,350LM	145LM/W(Ra70)
	28,750LM	125LM/W(Ra80)
240W	34,800LM	145LM/W(Ra70)
	30,000LM	125LM/W(Ra80)

PREMIUM VERSION

POWER	LUMENS	EFFICACY
20W	2,800LM	140LM/W(Ra70)
	2,500LM	125LM/W(Ra80)
30W	4,200LM	140LM/W(Ra70)
	3,750LM	125LM/W(Ra80)
40W	5,600LM	140LM/W(Ra70)
	5,000LM	125LM/W(Ra80)
50W	7,000LM	140LM/W(Ra70)
	6,250LM	125LM/W(Ra80)
60W	9,900LM	165LM/W(Ra70)
	9,000LM	150LM/W(Ra80)
70W	11,550LM	165LM/W(Ra70)
	10,500LM	150LM/W(Ra80)
80W	13,200LM	165LM/W(Ra70)
	12,000LM	150LM/W(Ra80)
90W	14,850LM	165LM/W(Ra70)
	13,500LM	150LM/W(Ra80)
100W	17,000LM	170LM/W(Ra70)
	15,000LM	150LM/W(Ra80)
110W	18,700LM	170LM/W(Ra70)
	16,500LM	150LM/W(Ra80)
120W	20,400LM	170LM/W(Ra70)
	18,000LM	150LM/W(Ra80)
130W	22,100LM	170LM/W(Ra70)
	19,500LM	150LM/W(Ra80)
140W	23,800LM	170LM/W(Ra70)
	21,000LM	150LM/W(Ra80)
150W	25,500LM	170LM/W(Ra70)
	22,500LM	150LM/W(Ra80)
160W	27,200LM	170LM/W(Ra70)
	24,000LM	150LM/W(Ra80)
170W	28,900LM	170LM/W(Ra70)
	25,500LM	150LM/W(Ra80)
180W	30,600LM	170LM/W(Ra70)
	27,000LM	150LM/W(Ra80)
190W	32,300LM	170LM/W(Ra70)
	28,500LM	150LM/W(Ra80)
200W	34,000LM	170LM/W(Ra70)
	30,000LM	150LM/W(Ra80)
210W	34,650LM	165LM/W(Ra70)
	30,450LM	145LM/W(Ra80)
220W	36,300LM	165LM/W(Ra70)
	31,900LM	145LM/W(Ra80)
230W	37,950LM	165LM/W(Ra70)
	33,350LM	145LM/W(Ra80)
240W	39,600LM	165LM/W(Ra70)
	34,800LM	145LM/W(Ra80)

SL02-SERIES CHARACTERISTICS & PACKAGING

①

The Performance Data is tested base on 230VAC, TYPE II and 4000K for all versions

②

Power Consumption Tolerance $\pm 5\%$ (Apply to all versions)

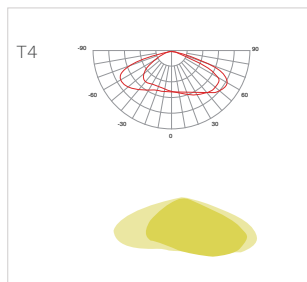
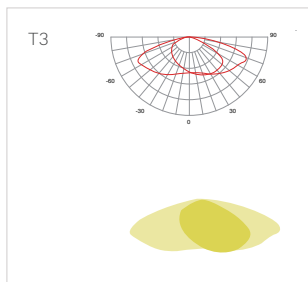
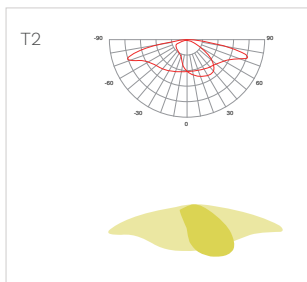
③

Lumen Efficiency Tolerance $\pm 5\%$ (Apply to all versions)

PACKAGING

POWER	PACKAGE SIZE	QTY/CTN	CBM	NET WEIGHT	GROSS WEIGHT
20W	L520*W250*H125mm	1PCS/CTN	0.019	2.5kg	3.0kg
30W	L520*W250*H125mm	1PCS/CTN	0.019	2.5kg	3.0kg
40W	L520*W250*H125mm	1PCS/CTN	0.019	2.5kg	3.0kg
50W	L595*W250*H125mm	1PCS/CTN	0.021	3.0kg	3.5kg
60W	L595*W250*H125mm	1PCS/CTN	0.021	3.0kg	3.5kg
70W	L595*W250*H125mm	1PCS/CTN	0.021	3.0kg	3.5kg
80W	L650*W290*H125mm	1PCS/CTN	0.028	3.5kg	4.0kg
90W	L650*W290*H125mm	1PCS/CTN	0.028	3.5kg	4.0kg
100W	L650*W290*H125mm	1PCS/CTN	0.028	3.5kg	4.0kg
110W	L650*W290*H125mm	1PCS/CTN	0.028	3.5kg	4.0kg
120W	L650*W290*H125mm	1PCS/CTN	0.028	3.5kg	4.0kg
130W	L715*W290*H125mm	1PCS/CTN	0.032	4.0kg	4.5kg
140W	L715*W290*H125mm	1PCS/CTN	0.032	4.0kg	4.5kg
150W	L715*W290*H125mm	1PCS/CTN	0.032	4.0kg	4.5kg
160W	L785*W350*H150mm	1PCS/CTN	0.036	5.0kg	5.5kg
170W	L785*W350*H150mm	1PCS/CTN	0.036	5.0kg	5.5kg
180W	L785*W350*H150mm	1PCS/CTN	0.036	5.0kg	5.5kg
190W	L785*W350*H150mm	1PCS/CTN	0.036	5.0kg	5.5kg
200W	L785*W350*H150mm	1PCS/CTN	0.036	5.0kg	5.5kg
210W	L785*W350*H150mm	1PCS/CTN	0.036	5.0kg	5.5kg
220W	L785*W350*H150mm	1PCS/CTN	0.036	5.0kg	5.5kg
230W	L785*W350*H150mm	1PCS/CTN	0.036	5.0kg	5.5kg
240W	L785*W350*H150mm	1PCS/CTN	0.036	5.0kg	5.5kg

LIGHT DISTRIBUTIONS



VH-E



SPD

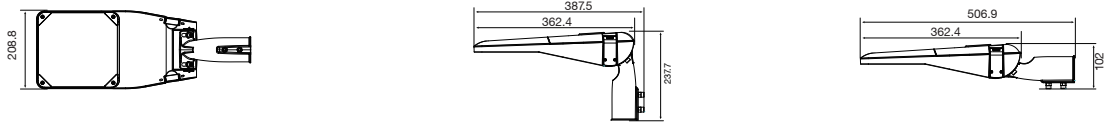


Cut-off switch

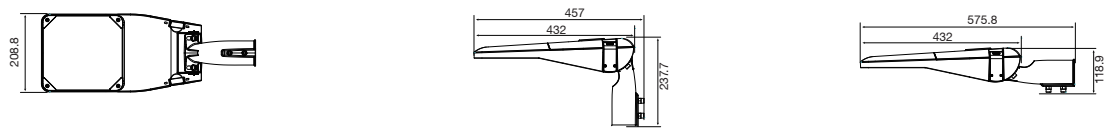


Connecting the cable requires an IP65 Tightness level

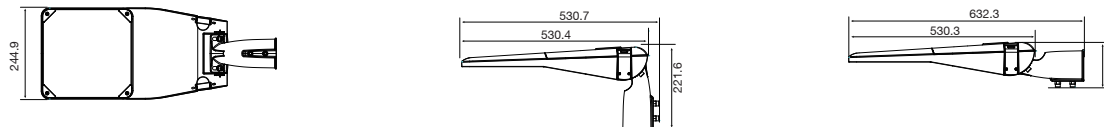
20W/30W/40W



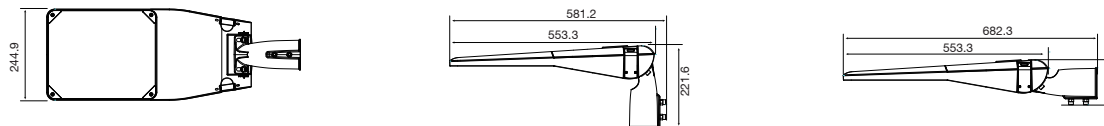
50W/60W/70W



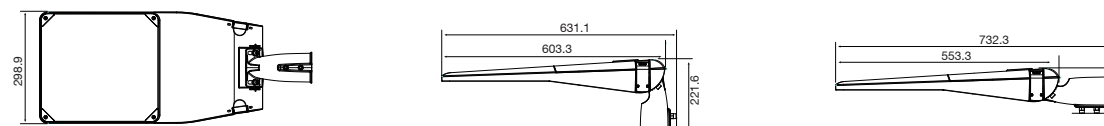
80W/90W/100W/110W/120W



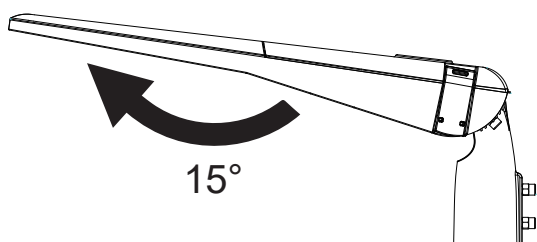
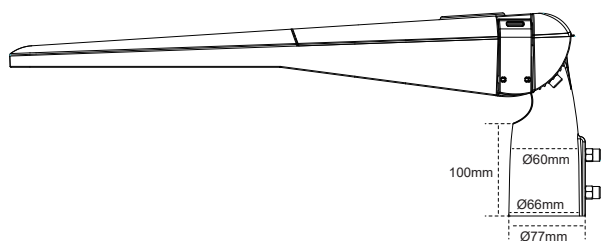
130W/140W/150W



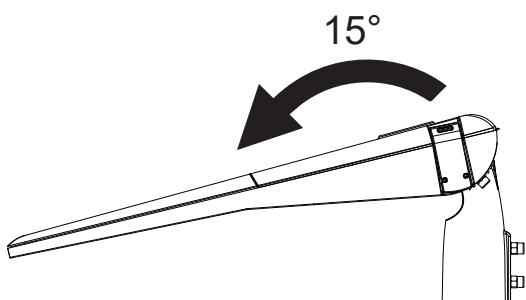
160W/170W/180W/190W/200W/210W/220W/230W/240W



Unit:mm



"Rotate it up 15 degrees!"



"Rotate it down 15 degrees!"

