



**PRODUCT FEATURES**

1. Pluggable technology, free on-site maintenance tools.
2. Low cellular cooling technology and high thermal conductivity, the whole structure of the cooling chip, efficiency heat conduction and heat dissipation performance.
3. Low single star LED light damage does not affect the other light source current.
4. Intelligent constant current drive technology, output stability, break through the life of power, can be automatically adjusted light.
5. Optical compartment IP68 and IK10 protection, the highest level of protection against water and impacts.
6. Constant Light Output (CLO), uniform distribution of light over time.
7. Free series, full power solutions.

**PRODUCT ICONS FEATURE**



**General Information**

Product Range: Street lighting  
 Product Family: Classic urban  
 Product Model: VA  
 Series Reference: EIC/MAC  
 Warranty: 5 years  
 Lifespan @ Ta=25°C: L70 - L80 F10 100.000 h  
 Lifespan @ Ta=40°C: L70 - L80 F10 60.000 h

**Electric Specifications**

Voltage (V): 80-265V AC  
 Frequency (Hz): 50-60 Hz  
 Power Factor (PF): >0.95  
 Power Efficiency (PE %): >90%  
 Flicker (%): 0%  
 Total Harmonic Distortion (THD %): <20%  
 Protection Class: II

**Light Specifications**

System Luminous Efficacy (lm/W): 120-130 lm/W ±10%  
 Color Render Index (CRI >Ra): 80  
 Controlled Color Temperature ( CCT °K): 2200K-6000K  
 Color Consistency (SDCM): <5  
 Unified Glare Rating (UGR): <12  
 Beam Angle (Degrees): Different options regarding lens type  
 Upper Light Output Ratio (ULOR %): 0%

**Protection Specifications**

Optical Compartment Tightness (IP): IP66  
 Auxiliary Compartment Tightness (IP): IP66  
 Impact Resistance (IK): IK08  
 Surge Protection: Basic: 4kV/Extended: 10kV

**PCB**

PCB Type: MC PCB  
 PCB Material: Aluminium  
 Thermal Vias: Yes  
 Led Bypass Protection: Yes  
 Overheating Protection: NTC Thermistor

**LED**

Brand: PHILIPS  
 Type: SMD  
 Model: S050  
 Min. Luminous Efficacy (lm/W): 150 lm/W

**Driver**

Brand: Inventronics  
 Series Type: EUC180, Other series optional  
 Internal or External: External  
 Isolated or Not: Isolated  
 IP: IP67  
 Lifespan @ Ta=40°C: 100.000 h  
 Surge Protection: 4 kV, 10kV  
 Overload and Short Circuit Protection: Yes  
 Thermal Foldback Control: Optional

**HeatSink**

Thermal Interface Material (TIM): Yes  
 Body Material: Aluminium  
 Fin Material: Aluminium  
 Extra Cooling System: The whole structure of radiation

**APPLICATION**

- Parks
- Lighting of avenues
- Streets
- Roundabouts
- Squares

**Application Conditions**

T1 Temperature (T1 °C): <80°C @ Ta=25°C  
 T2 Temperature (T2 °C): <60°C @ Ta=25°C  
 Storage Temperature (T3): <40°C +85°C  
 Operating Temperature (T4): <40°C +50°C  
 Operating Humidity (RH%) : 5-95%RH

**Control And Communication**

Constant Light Output (CLO): Optional  
 Scheduling Dimming System: 8 levels steps, Optional  
 Dimming Function: 0-10V/PWM, DALI (optional)  
 Other Sensors Options: Photoelectric, Movement, Other  
 Wireless Communications Compatibility: Yes

**Installation And Maintenance**

Type: Top fitting  
 Fitting To Existing Pole: Yes  
 System: Fitting to existing pole  
 Vertical Angle Adjustment: No  
 Mounting Height: 4-6M  
 Horizontal Angle Adjustment: No  
 Replaceable Light Source: Yes  
 Replaceable Driver: Yes  
 Replaceable Lens: Yes  
 Replaceable Cover: Yes  
 Heating Opening System: Stainless steel screws  
 Wire Connectors System: Waterproof quick Threaded fastener

**Housing**

Body Material: Sheet steel  
 Finishing: Steel  
 Color:RAL, Black  
 Cover Material: PC,Lensa  
 Cover Type: Clear  
 Locking System: Stainless steel screws

**Optical**

Lens Material: PC

**Wire Connection**

Cable Material: 3\*1,0mm-rubber with cold-pressed terminal  
 Connectors System: Waterproof threaded quick connector  
 Waterproof Connectors: Yes

**Matters Need Attention**

- Matters need attention: 1. Before use, should carefully read the instructions, to avoid accidents and damages.  
 2. Please wear gloves to avoid injury before installation work.  
 3. Lighting installation and wiring work must be carried out in the absence of power.  
 4. Power line joints must do insulation, waterproofing treatment.  
 5. Do not look directly at the light emitting LED lighting in close distance, ensure not hurt the eyes.

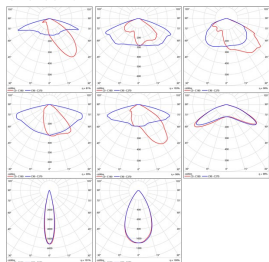
PRODUCT PARAMETERS

Reference	Typical Power	W	Current (mA)	System Efficiency (lm/W)	Equivalent Power (W)				System requirements (20°C Ta=25°C)		Mounting (mm)	Height (m)
					IP 10000h	IP 30000h	IP 50000h	IP 100000h	1.2m	1.5m		
E20VAC	20W	1.2	80mA	130 lm/W ±20%	3475	2834	2735	2627	180 F10 100.000h	+62°C	7xØ40mm	6
	30W		104mA	125 lm/W ±20%	3870	3769	3645	3492	180 F10 100.000h	+68°C		
	40W		138mA	120 lm/W ±20%	4370	4062	3950	3737	180 F10 100.000h	+70°C		
	20W	1.6	78mA	128lm/W ±20%	3256	2660	2542	2434	180 F10 100.000h	+62°C		
	30W		104mA	125 lm/W ±20%	4740	3586	3263	3155	180 F10 100.000h	+68°C		
	40W		138mA	123lm/W ±20%	5790	4128	3986	3845	180 F10 100.000h	+68°C		
	20W	2.4	80mA	120 lm/W ±20%	4490	3268	3470	3673	180 F10 100.000h	+62°C		
	30W		104mA	127lm/W ±20%	5545	4433	4640	4838	180 F10 100.000h	+62°C		
	40W		138mA	125 lm/W ±20%	7140	5798	5990	6182	180 F10 100.000h	+68°C		
	20W	3.2	78mA	128lm/W ±20%	7112	5786	6079	6374	180 F10 100.000h	+62°C		
	30W		104mA	125 lm/W ±20%	8530	6835	7090	7345	180 F10 100.000h	+68°C		
	40W		138mA	123lm/W ±20%	11028	9207	9726	10245	180 F10 100.000h	+70°C		

PRODUCT CONFIGURATOR

Light	Power	Color CCT	Voltage	Beam	Control	Accessories
E20VAC	10W	AMZ2	120	LM1	0-8KV	<b>ESP201</b> Photoelectric control sensor MTC50A/TC2  <b>PW-1000VACV</b> External surge protection device 10kV MTC50A/TC2  <b>PW-50K</b> External surge protection device 50kV MTC50A/TC2
	20W	230Vx	230V-230V	LM2	Stimming 0-12W	
	30W	AMZ	240	LM2	CLR Constant Light Output	
	40W	1700K	200V-240V	LM3	CTLEB0 0-5A/0-120V/Min/Timer	
	60W	CV	300	LM3	CTLEB0 0-5A/0-120V/Min/Timer	
	80W	6000K	270V-300V	LM4	CTLEB0-SUB 0-120V/Min/Timer	
	90W	WV	0V/0	LM4	CTLEB0-SUB 0-120V/Min/Timer	
	90W	2030K	240V-230V	LM5	BALI Digital Addressable Lighting Interface	
	90W	FW	300-305V	LM5	0MERSL3 Control of lighting and effects of the stage	
	90W	WW	2030K	LM6	EC No control	
			LM7	PFM Focus Width Modulation		
			LM8	TRM Tune Regulation System		
			LM9	TWAC Trade for Alternating Current		

LIGHT DISTRIBUTION IMAGE



ACCESSORIES



OPTIONAL

- Custom Light Output (CLR)
- Stimming dimming system (Stim)
- External Surge protection device 10kV
- Color: Grey/Black

PRODUCT DIMENSIONS



MOUNTING INSTRUCTIONS



Step1: Open the upper cover.

Step2. Adjust the width of the supporting plate which carries the module and the driver.  
 Step3. Fix the power line and put the supporting plate on the square set.  
 Step4. Tighten up the supporting plate on the square set with 4 butterfly screws.  
 Step5. Connect the power line. The earth wire should be grounded.



1. Adjusting the lamp direction before locking screws.  
 2. Pilot screws must be locked, to prevent loss or rotation.  
 3. The base wires should be insulated to prevent short circuits.  
 4. Ground line must be grounded to prevent leakage accidents.

#### PACKING SPECIFICATIONS

Model	Qty/Tray	Length (mm)	Width (mm)	Height (mm)	Stack Height (mm)
ENRNLCD09W2	3	445	445	820	7
ENRNLCD09W2	3	445	445	820	7
ENRNLCD09W2	3	445	445	820	7
ENRNLCD09W5	3	445	445	820	7
ENRNLCD09W6	3	445	445	820	7
ENRNLCD09W6	3	445	445	820	7
ENRNLCD09W4	3	445	445	820	7
ENRNLCD09W4	3	445	445	820	7
ENRNLCD09W4	3	445	445	820	7
ENRNLCD09W2	3	445	445	820	7
ENRNLCD09W2	3	445	445	820	7
ENRNLCD09W2	3	445	445	820	7

#### MATTERS NEED ATTENTION



1. Before use, should carefully read the instructions, to avoid accidents and damage.
2. Please wear gloves to avoid injury before installation work.
3. Lighting installation, and wiring work must be carried out in the absence of power.
4. Power line joints must do insulation, waterproofing treatment.
5. Do not look directly at the light emitting LED lighting in close distance, ensure not hurt the eyes.