



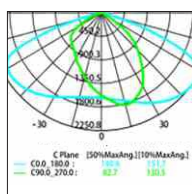
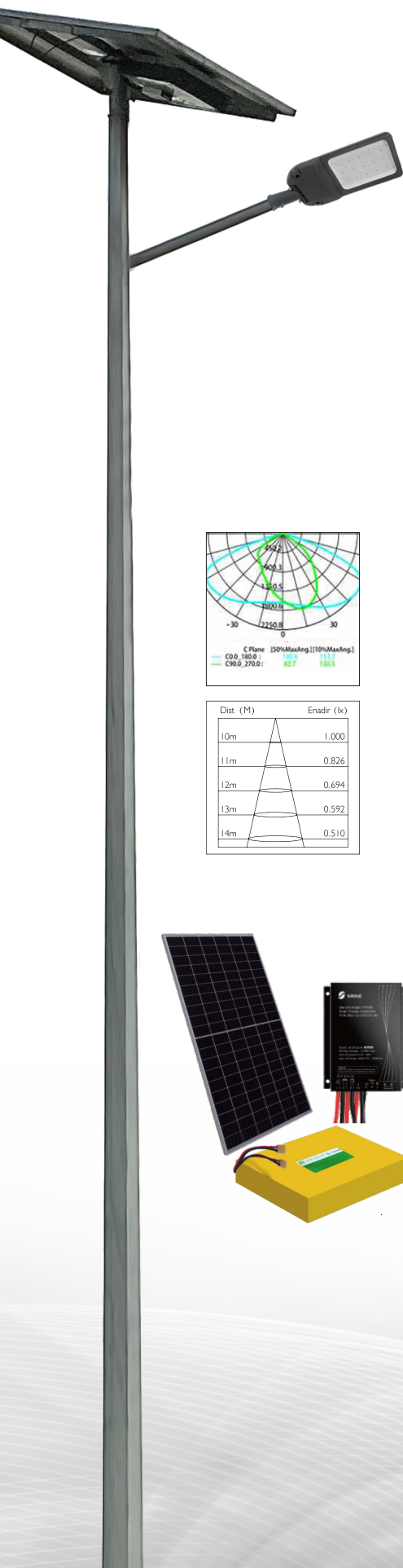
Integron^{Butterfly}

SOLAR LED STREET LIGHT



LM-79
LM-80
LM-82





Dist. (M)	Enadir. (°)
10m	1.000
11m	0.826
12m	0.694
13m	0.592
14m	0.510



Technical Specifications

Electrical Characteristics

Wattage Package	60W – 80W	80W – 100W	100W – 120W	120W – 150W
Charge Controller	Intelligent Solar Charge Controller			
Charge Controller TYPE	PWM / MPPT / PWM Hybrid / MPPT Hybrid			
Voltage Range	Light 36V / 48V Battery 12V / 24V and PV 17-48V / 34-48V			

Light Technical Characteristics

Lumen Package	>8,600 Lm	>12,200 Lm	>16,800 Lm	>19,600 Lm
	Other lumen packages also available ranging from 4,550 Lm to 42390Lm			
System Efficacy	140-150 Lm/W			
Light Source	Lumileds 3030 2D			
LED Efficiency	Upto >200 Lm/w			
LED Drive Current	Less than 50% of the rated max forward current of the LED			
Color Rendering Index	Minimum 70			
Beam Angle	Standard Beam Angle 90x150 Degree Type II M (other Type(s) also available)			
Color Temperature	CW -5700K/ NW -4000K/ W W -3000K ±500K			
Lifetime	50,000 hours (70% lumen maintenance @ Ta = 35°C)			

Battery Technical Characteristics

Battery Capacity	>576 Wh	>768 Wh	>1075 Wh	>1228 Wh
Battery Type	Lithium Iron Phosphate (LiFePO4)			
Charge Cycles / Life	>4000 Charge Cycles (up to 5000) / Upto 13 Years			

Solar Technical Characteristics

Solar PV Wattage	>150W	>200W	>250W	>300W
Solar PV Type	Polycrystalline / Monocrystalline / Mono PERC (as per client requirement)			
Solar PV Life	> 10 years			

Environmental Characteristics

Light Installation	*48-60mm pole, side entry	
Light Mounting Height	Up to 6-10m	Up to 8-12m
Working temperature	Light -40°C to 55°C	
	Battery 0° C to 45°C	
	Solar Panel -40°C to 85°C	
Relative humidity	Up to 95%RH	

Mechanical Parameters

Light Housing material	High pressure die-cast aluminum			
Buttery Console material	Aluminum Alloy			
Gasket material	Heat resistant silicone rubber			
Light Front Cover	Tempered Glass			
Finishing	Corrosion resistant powder coating			

General Information

System Life	Upto 100,000 working hours			
Applications	Expressways, Highways, Major Roads, Secondary Roads, Industrial Roads & Residential Roads.			

Unique Features

Future Proof Design	Upgradable to solar or any other future technology			
Programmability	The light can be programmed to work on multiple dimming stages to save energy in off-peak hours for an extra-long battery backup			
IOT	Provision of IOT connectivity (optional)			

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LED LIGHTS
The Future of Lighting