

LED SOLAR STREET LIGHT (ALL IN ONE)

Model No. ISSL-DLX-020C

SUNPOWER CREE



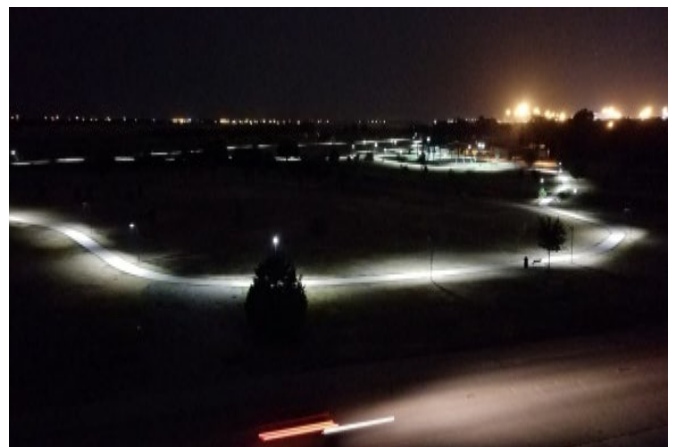
FEATURES & ADVANTAGES

- ✓ **2,800 LM** max lamp lumen high brightness
- ✓ **100,000+ Hours** long LED lifespan, with professional heat dissipation design
- ✓ **25 Years** long product lifespan
- ✓ **3,000+ Cycles** life LiFePO4 batteries with inbuilt Micro-BMS technologies
- ✓ **22.5% Efficiency** SUNPOWER solar cells
- ✓ **99.9%** MPPT solar charge efficiency
- ✓ **IP68** rated controller vs. IP66 rated electrical compartment
- ✓ **7+ Days** cloudy/rainy days autonomy
- ✓ **IES Type 1~5** with professional optical designs available to match different project requirements
- ✓ **Flexible & Customized Working Modes** with timer and motion sensor by programming
- ✓ **IoT Control** and online remote monitoring as optional via ZigBee or LoRaWAN



APPLICATIONS

- ✓ Expressway lighting
- ✓ Street lighting
- ✓ Roadway lighting
- ✓ Public Areas lighting (squares, theme parks, park lots....)



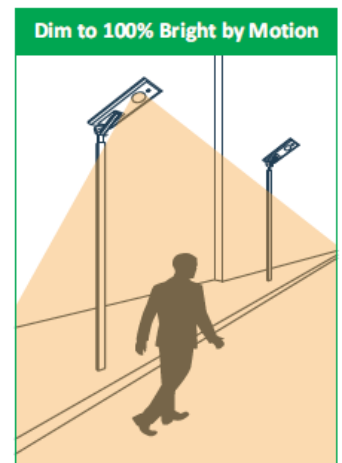
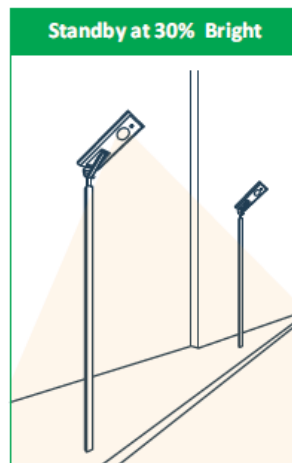
TECHNICAL SPECIFICATIONS

LED Light Source	Rated Power	20W (30LEDsx2 modules)
	LED Brand	CREE 3030/3535/5050 (LED Lumen: 195lm/W)
	Lumens (LM)	2400-2800lm
	Life-span	100,000 hours
	Color Temp. (CCT)	5000K (2700~6500K Full range available)
	CRI	>70
	Viewing Angle	140° (Customized Angles & IES Types Available)
Solar Panel	Power	18V/40Wp (SUNPOWER Cell Mono PV)
	Life-span	25 years
Batteries	Capacity/Type	12.8V/21AH (268.80WH) / LiFePO4 Lithium
	Life-span	8+ years (3000 circles @60% DoD)
Controller	Type	MPPT / IP68/IoT Online Monitoring as Optional
	Sensor	Microwave Radar (PIR & Timing as optional)
Full Charge Time	By Solar	7 hours (STC: 1000W/m ² , 25°C)
Discharge Time	Dim Mode	>100hours (autonomy>5 cloudy/rainy days)
	Bright Mode	>20hours
Working Temp.	-30°C~+80°C	
Mounting Height/Brackets	4~5 m/ Available Brackets: Post Top/ Arm/ Arm Tube/ Pole Clamps	
Space Between Lights	20~25m	
Materials	Aluminium Alloy	
Certificate	CE / ROHS / IP66/ IK08/ TÜV-SUD ISO9001/ ISO14001	
Warranty	5 years	

PERFORMANCE

Power (%)	Lamp Lumens (lm)
100%	2,800
60%	1,680
50%	1,400
30%	8,40
20%	5,60

Dim with Radar Motion Sensor



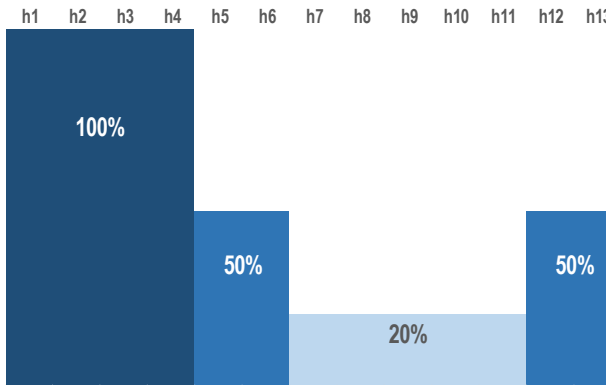
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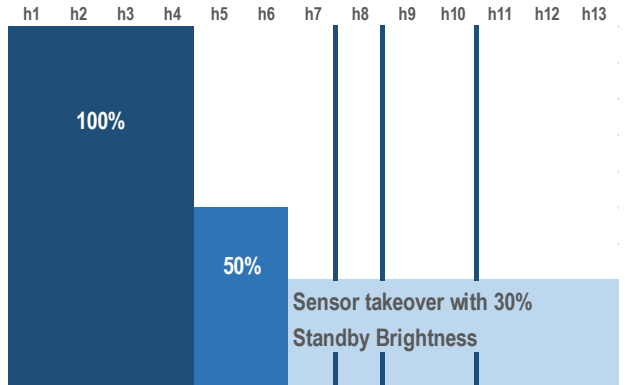
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Dim with Timer



Dim with Timer+ Motion Sensor



More customized control and working modes for maximum 5 sections available by programming upon customer and project requirements.

DIMENSIONS

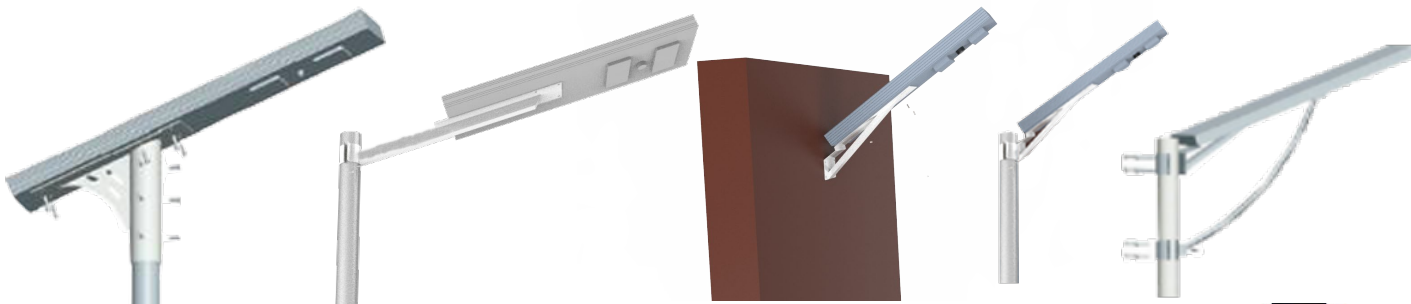
Items	L (mm)	W (mm)	H (mm)	N.W. (kgs)
Light Body	840	292	55	6.70

PACKING INFORMATION

Items	Package	L (mm)	W (mm)	H (mm)	CBM	G.W. (kgs)
Light Body	2pcs per Carton	875	350	175	0.053	14.70
Mounting Brackets	2pcs per Carton	380	320	230	0.028	9.10
PCS/40'HQ Container:	1600 pcs	PCS/20' Container		650 pcs		

ACCESSORIES

Clamp bracket for Wall or Pole, Arm/ Tube Brackets for Pole Mounting Available.





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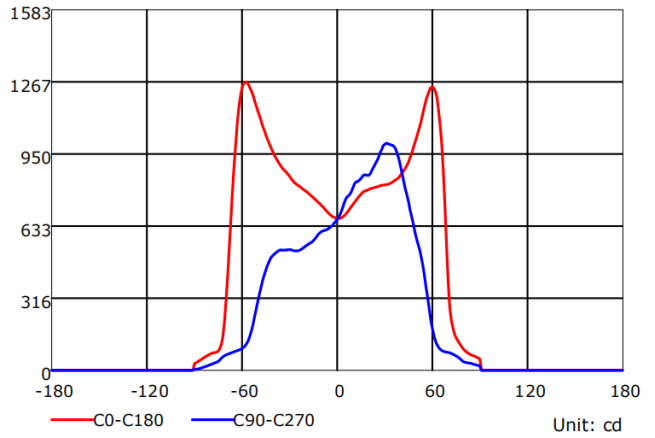
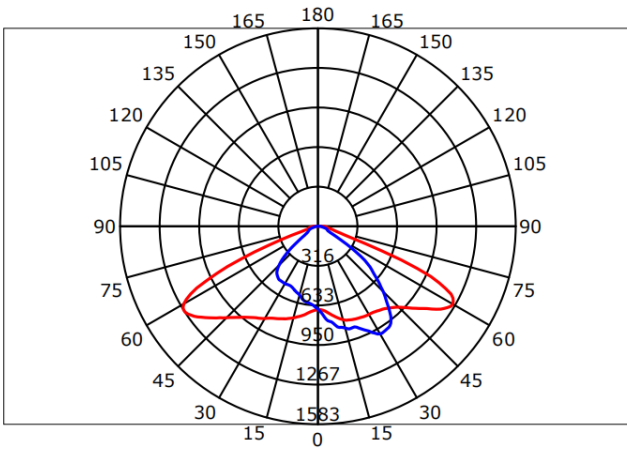
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DISTRIBUTIONS & IES TYPE

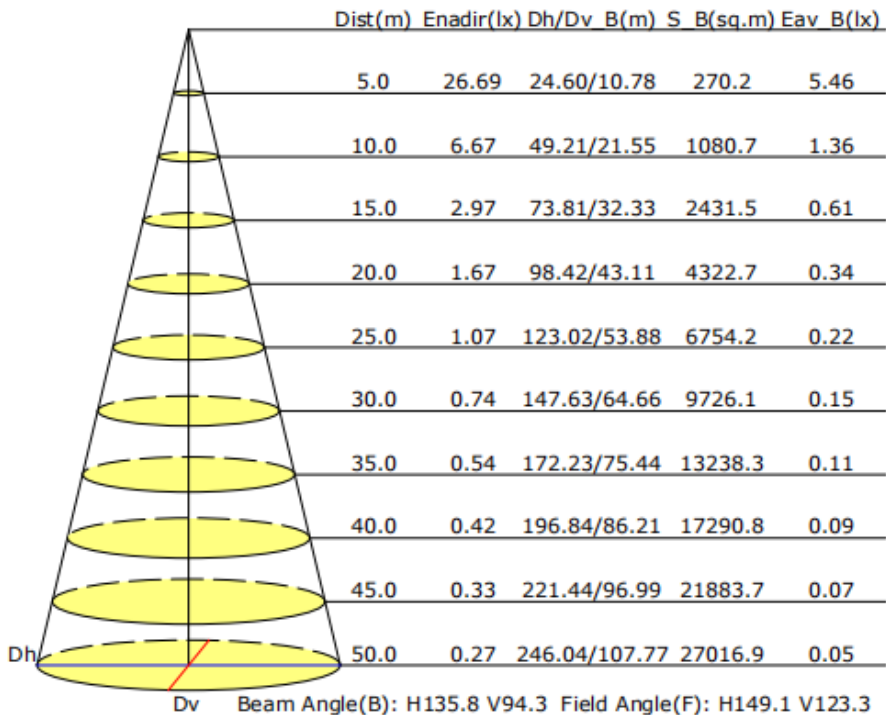
IES Type II as regular distribution, customized IES Types available upon requirements

Luminous Intensity Distribution Curve



Illuminance at a Distance

Illuminance at a Distance





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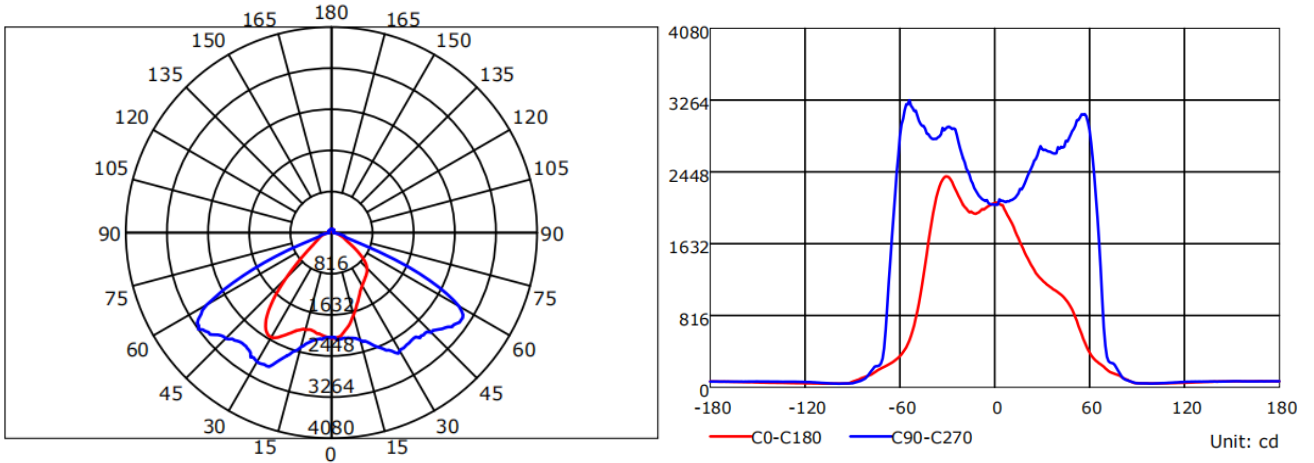


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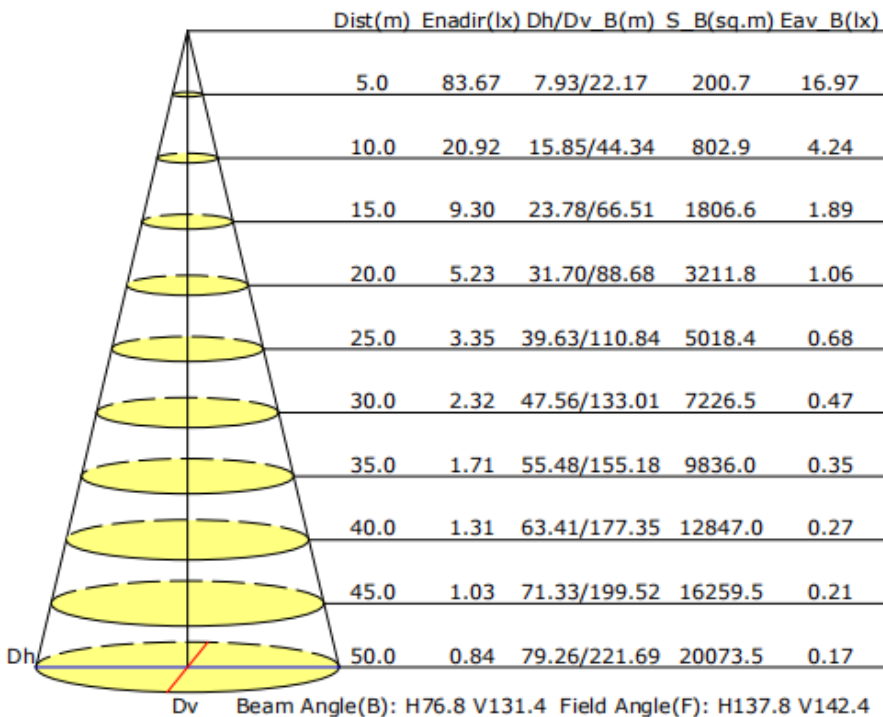
IES Type III

Luminous Intensity Distribution Curve



Illuminance at a Distance

Illuminance at a Distance





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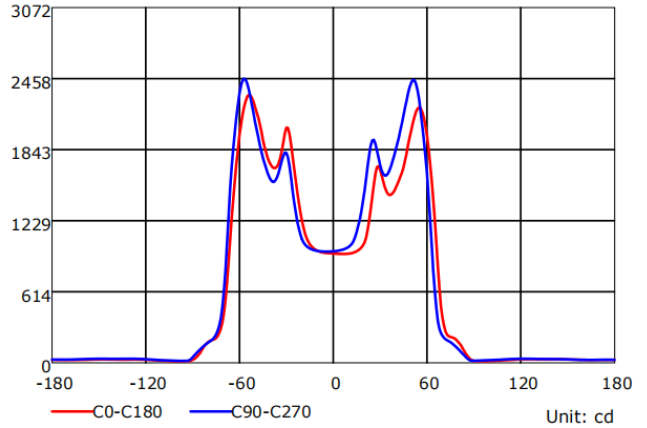
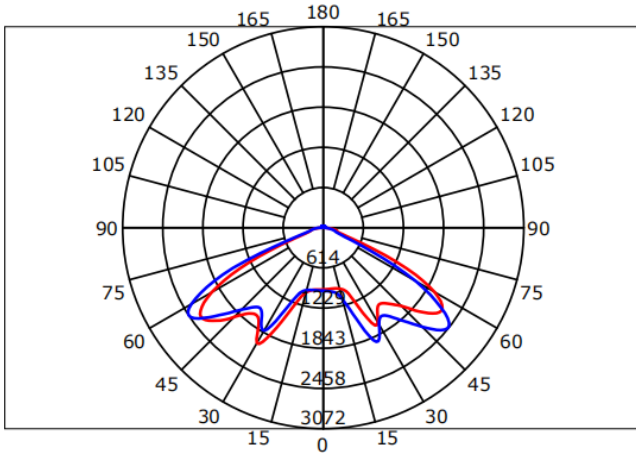


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DISTRIBUTIONS & IES TYPE

IES Type IV

Luminous Intensity Distribution Curve



Illuminance at a Distance

Illuminance at a Distance

Dist(m)	Enadir(lx)	Dh/Dv	B(m)	S	B(sq.m)	Eav	B(lx)
5.0	37.83	21.90/21.09	370.4	9.86			
10.0	9.46	43.81/42.17	1481.7	2.46			
15.0	4.20	65.71/63.26	3333.9	1.10			
20.0	2.36	87.61/84.34	5926.9	0.62			
25.0	1.51	109.51/105.43	9260.8	0.39			
30.0	1.05	131.42/126.51	13335.6	0.27			
35.0	0.77	153.32/147.60	18151.2	0.20			
40.0	0.59	175.22/168.68	23707.7	0.15			
45.0	0.47	197.13/189.77	30005.0	0.12			
50.0	0.38	219.03/210.85	37043.3	0.10			

Dv Beam Angle(B): H130.9 V129.3 Field Angle(F): H147.8 V144.4

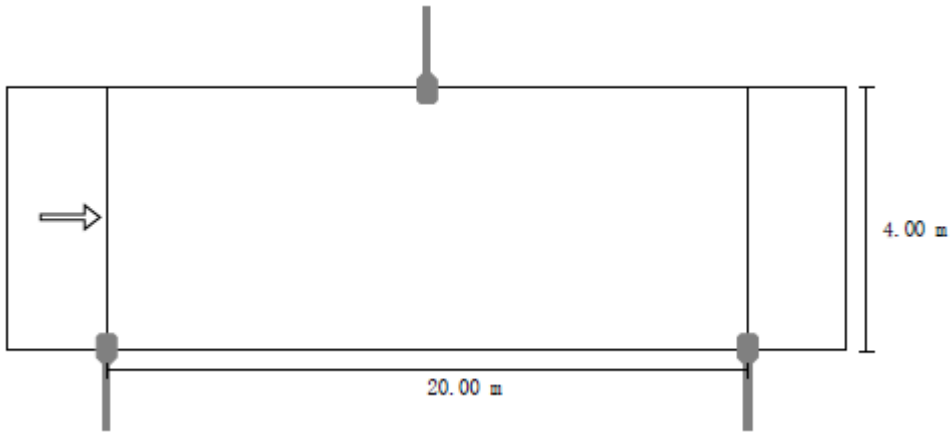


DIALUX SIMULATION REPORT

Street Profile: (Tarmac: R3, q0: 0.070)

Pole Height :5m ; Road Width: 4m; Pole Distance :20m; Lanes: 1;

Luminaire Arrangements



Valuation Field Roadway / Isolines (E)

