

LED SOLAR STREET LIGHT (ALL IN ONE)

Model No. ISSL-DLX-120C

SUNPOWER CREE



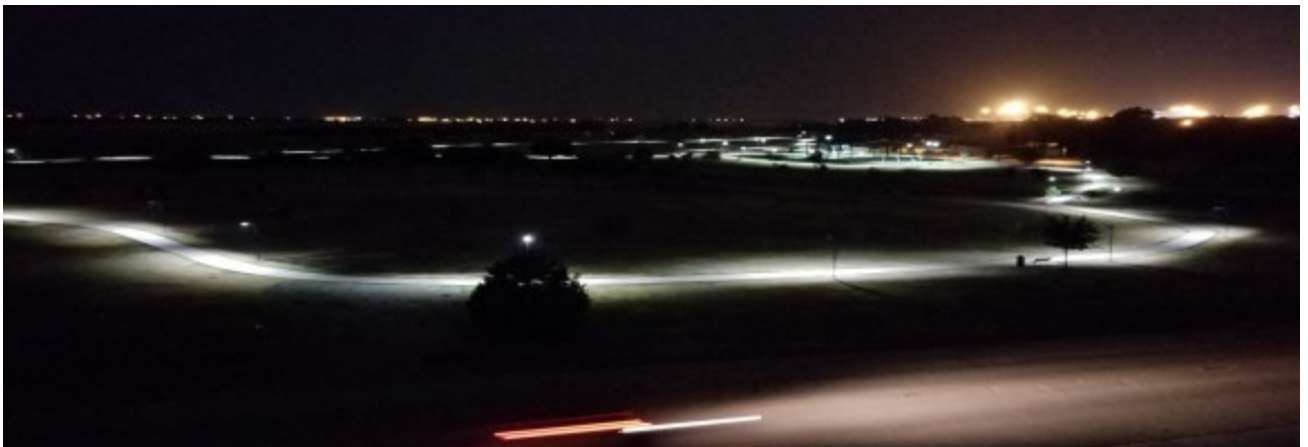
FEATURES & ADVANTAGES

- ✓ **16,800 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

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



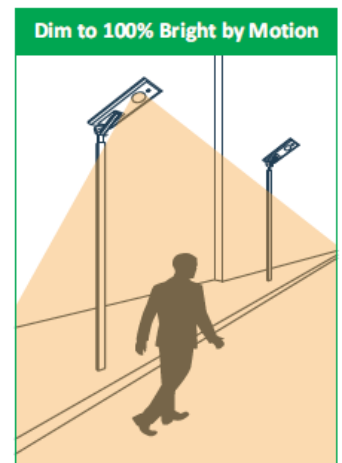
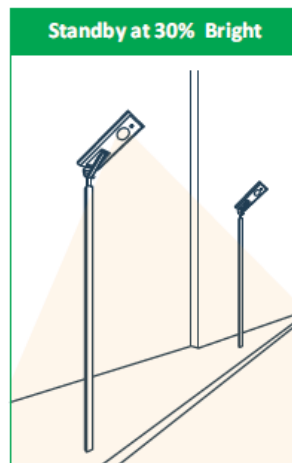
TECHNICAL SPECIFICATIONS

LED Light Source	Rated Power	120W (36LEDs x 4 modules)
	LED Brand	CREE 3030/3535/5050 (LED Lumen: 195lm/W)
	Lumens (LM)	14400-16800lm
	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	36V/160Wp (SUNPOWER Cell Mono PV)
	Life-span	25 years
Batteries	Capacity/Type	25.6V/45AH (1152WH) / 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	>70hours (autonomy>5 cloudy/rainy days)
	Bright Mode	>14hours
Working Temp.	-30°C~+80°C	
Mounting Height/Brackets	10~12 m/ Available Brackets: Post Top Bracket	
Space Between Lights	35~40m	
Materials	Aluminium Alloy	
Certificate	CE / ROHS / IP66/ IK08/ TÜV-SUD ISO9001/ ISO14001	
Warranty	5 years	

PERFORMANCE

Power (%)	Lamp Lumens (lm)
100%	16,800
60%	10,080
50%	8,400
30%	5,040
20%	3,360

Dim with Radar Motion Sensor



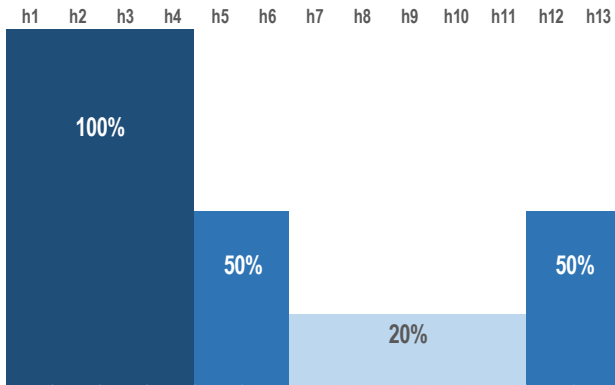
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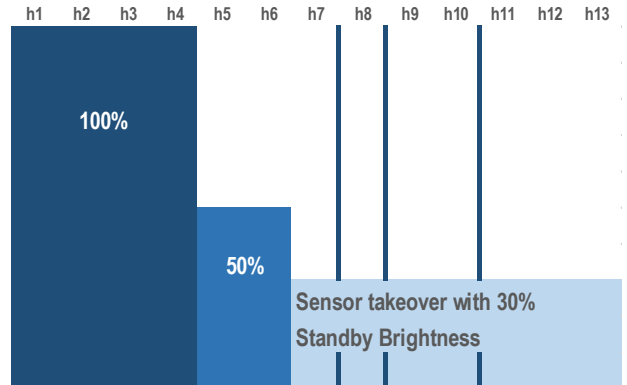
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Dim with Timer



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	1610	550	55	27.70

PACKING INFORMATION

Items	Package	L (mm)	W (mm)	H (mm)	CBM	G.W. (kgs)
Light Body	1pcs per Carton	1650	600	110	0.109	31.30
Mounting Brackets	4pcs per Carton	960	540	385	0.200	34.90
PCS/40'HQ Container:	400 pcs	PCS/20' Container		170 pcs		

FINISHED COLOR



ACCESSORIES

With Customize Angles
Tube Brackets for Pole Mounting Available





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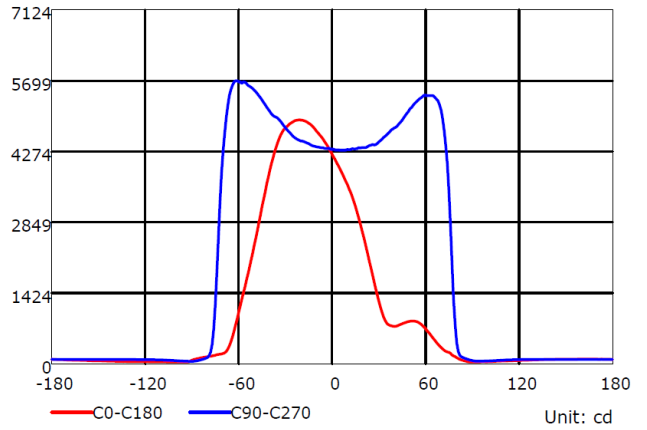
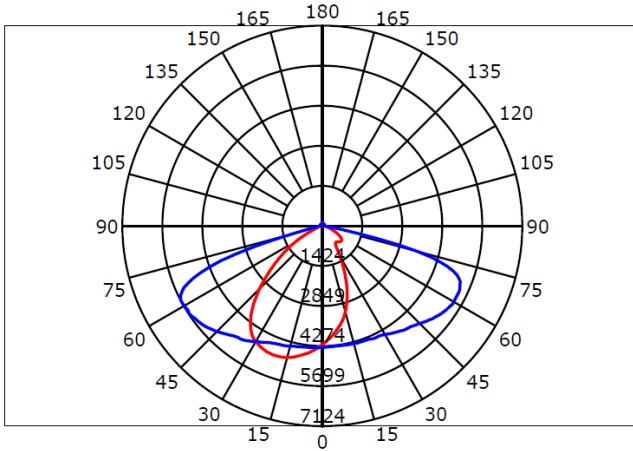
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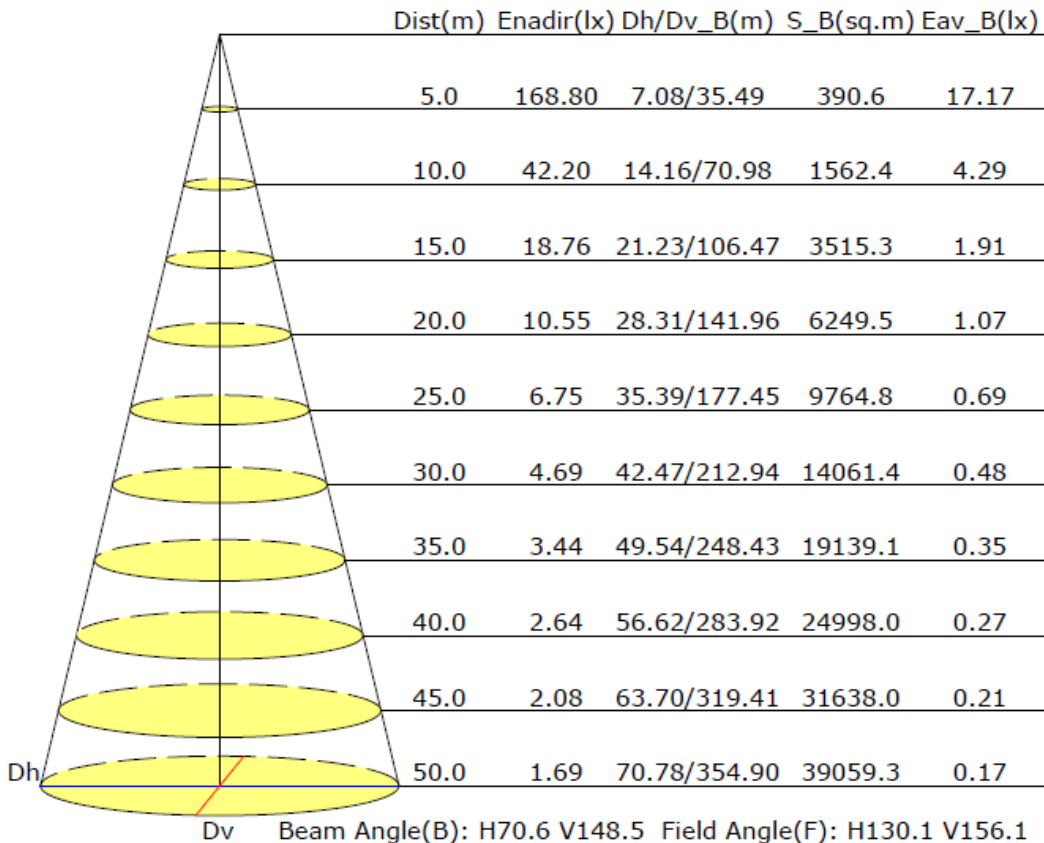
DISTRIBUTIONS & IES TYPE

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

Luminous Intensity Distribution Curve



Illuminance at a Distance





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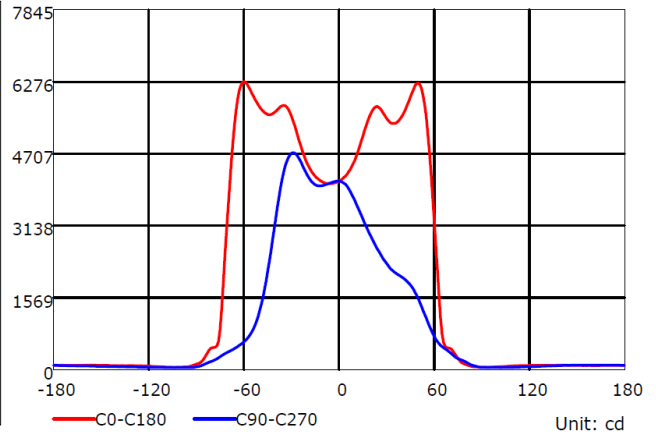
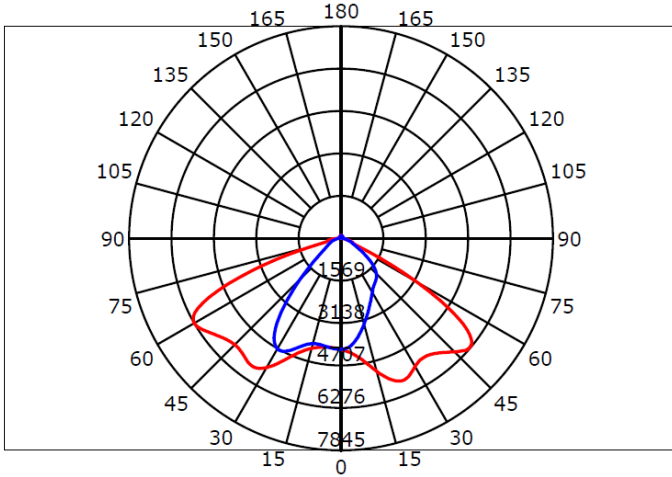


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DISTRIBUTIONS & IES TYPE

IES Type III

Luminous Intensity Distribution Curve



Illuminance at a Distance

Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	164.44	21.95/7.39	205.1	31.48
10.0	41.11	43.89/14.79	820.6	7.87
15.0	18.27	65.84/22.18	1846.2	3.50
20.0	10.28	87.79/29.58	3282.2	1.97
25.0	6.58	109.73/36.97	5128.5	1.26
30.0	4.57	131.68/44.37	7385.0	0.87
35.0	3.36	153.63/51.76	10051.8	0.64
40.0	2.57	175.57/59.16	13128.9	0.49
45.0	2.03	197.52/66.55	16616.2	0.39
50.0	1.64	219.47/73.95	20513.9	0.31

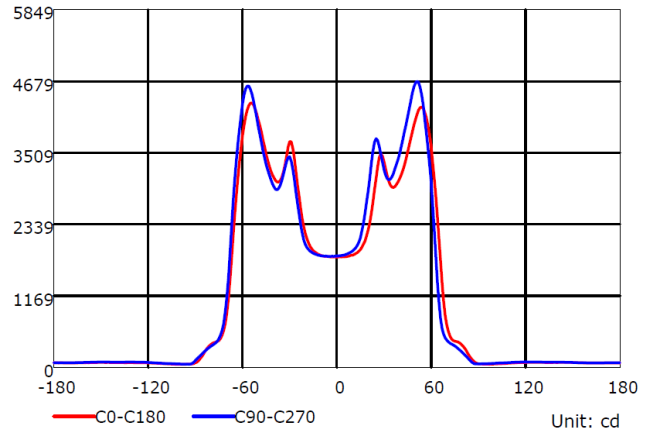
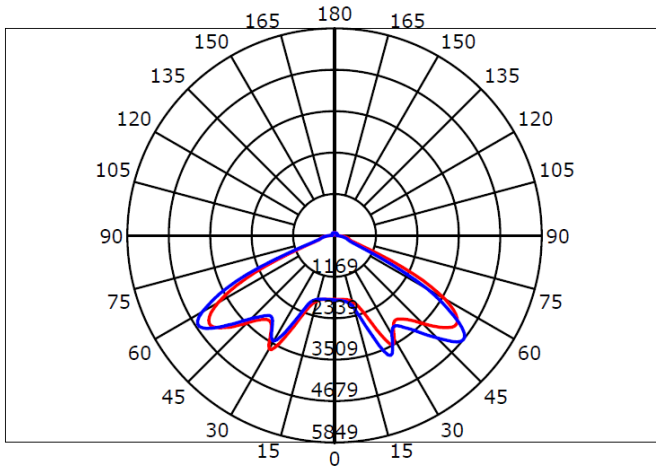
Dv Beam Angle(B): H131.0 V73.0 Field Angle(F): H141.8 V131.7



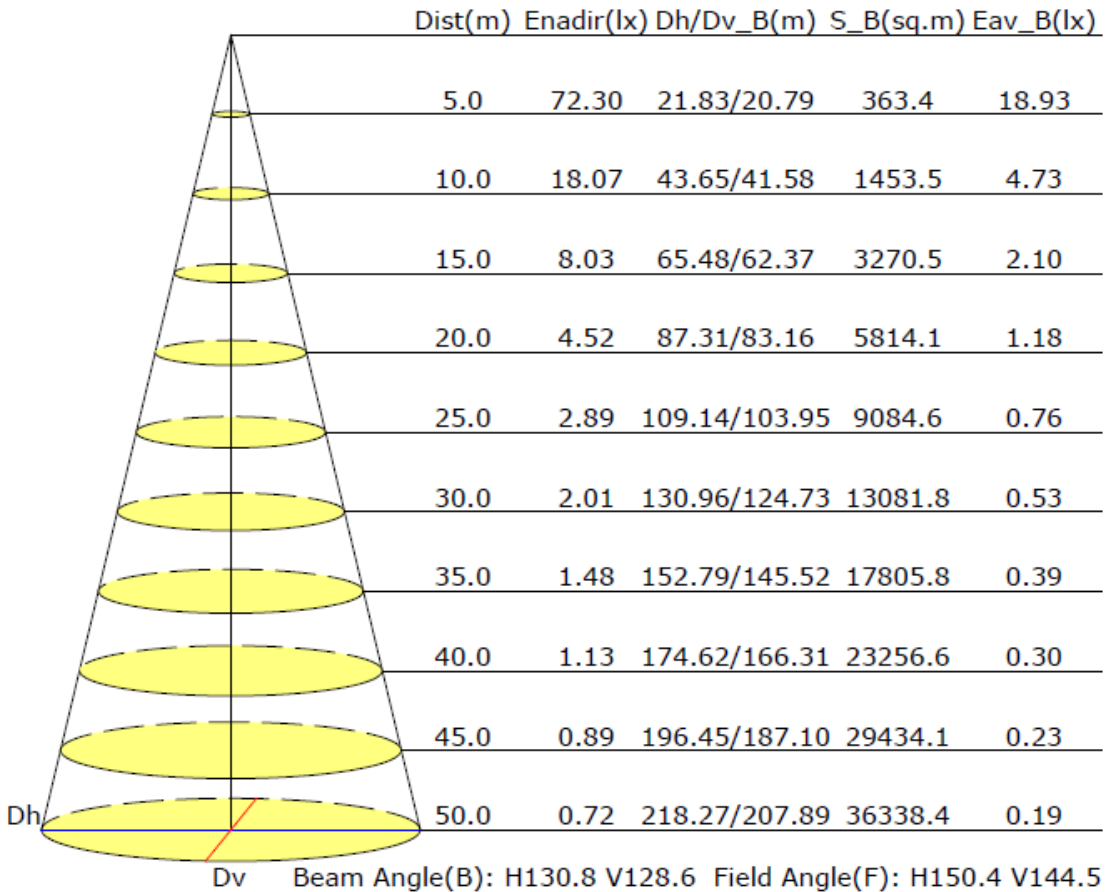
DISTRIBUTIONS & IES TYPE

IES Type IV

Luminous Intensity Distribution Curve



Illuminance at a Distance

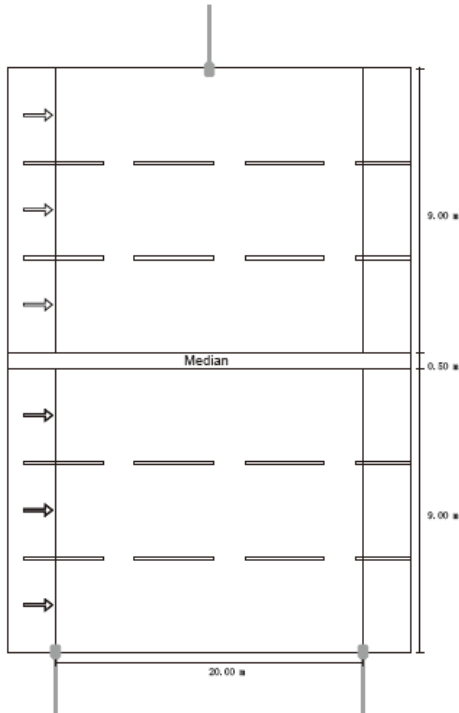


DIALUX SIMULATION REPORT

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

Pole Height :12m ; Road Width: 18.5m; Pole Distance :20m; Lanes: 6;

Luminaire Arrangements



Valuation Field Roadway / Isolines (E)

