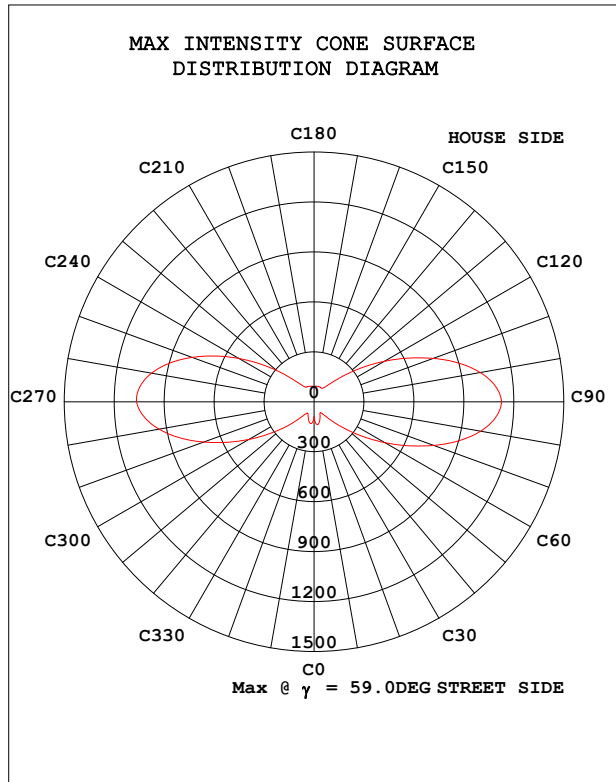
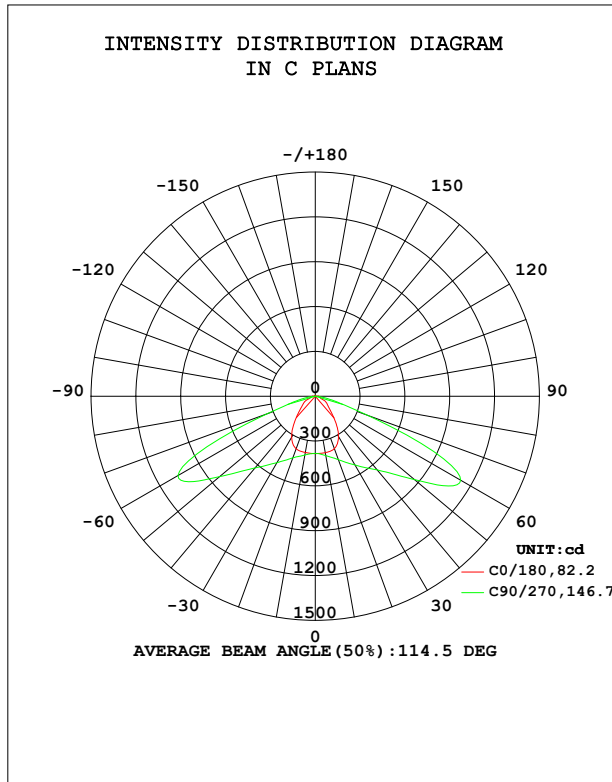


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:9.414V I:1.610A P:15.15W PF:1.000 Freq:0Hz Lamp Flux:900.17x1 lm		
NAME: Integrated solar street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 111.83 lm/W			
MODEL	IN-115	Imax (cd)	1127	η street_up (%)	0.1
NOMINAL POWER (W)	15	LOR (%)	188.2	η street_down (%)	115.1
RATED VOLTAGE (V)	9.5	TOTAL FLUX (lm)	1694	η house_up (%)	0.0
NOMINAL FLUX (lm)	900.17	MAXIMUM @ (C, γ)	90,59.0	η house_down (%)	73.0
LAMPS INSIDE	1	η up (%)	0.1	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	9.5	η down (%)	188.1	SLI	15.382

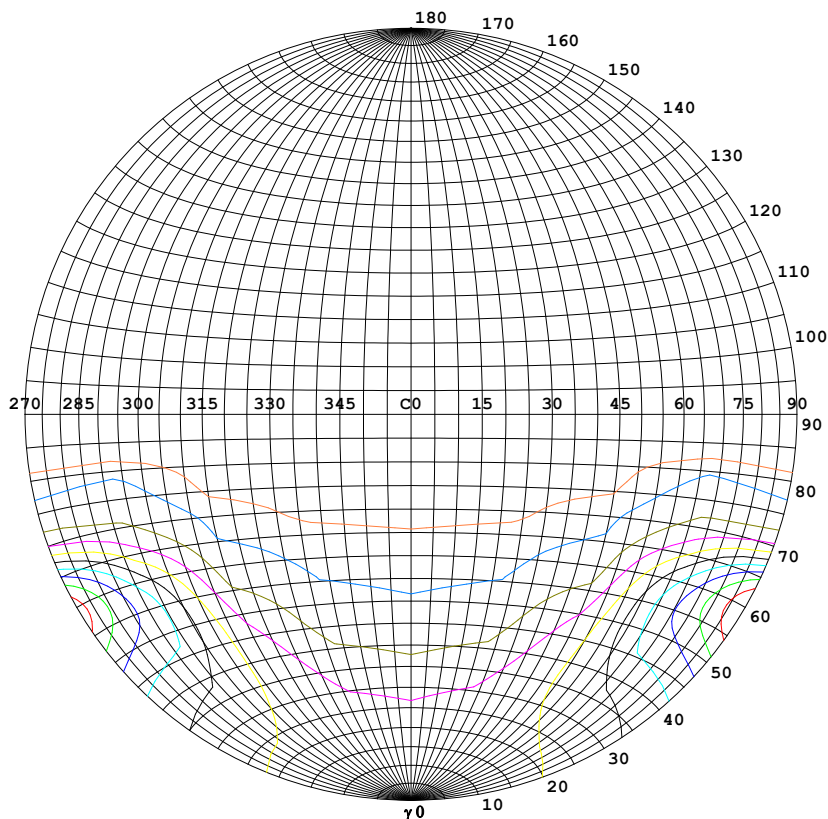


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Seth
 Test Date: 2017-05-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.4966]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:9.414V I:1.610A P:15.15W PF:1.000 Freq:0Hz Lamp Flux:900.17x1 lm		
NAME: Integrated solar street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A



Classification:

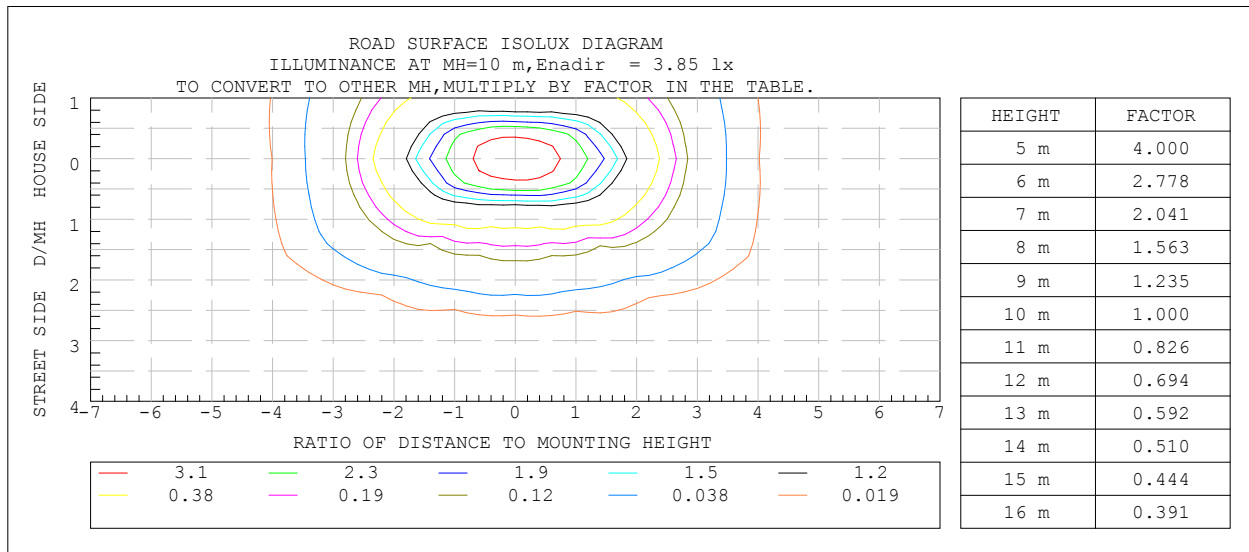
IES:Type I - Very Short
 CIE:Narrow - Short
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:133.1cd/klm
 Max.At90:23.11cd/klm
 Max.80-90:133.1cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1127
— 90%	1014
— 80%	901
— 70%	789
— 60%	676
— 50%	563
— 40%	451
— 30%	338
— 20%	225
— 10%	113
— 5%	56

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Seth
 Test Date: 2017-05-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.4966]
 Remarks:

ZONAL FLUX DIAGRAM

Test:U:9.414V I:1.610A P:15.15W PF:1.000 Freq:0Hz Lamp Flux:900.17x1 lm		
NAME: Integrated solar street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

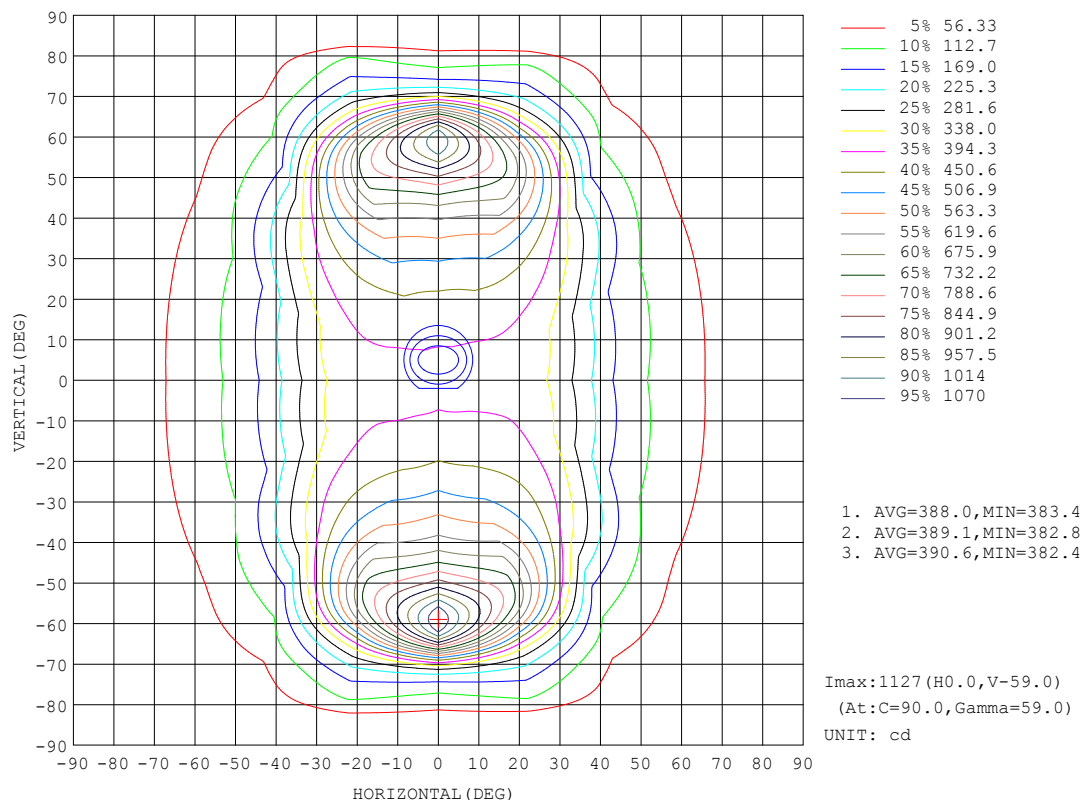
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	383.5	392.9	403.3	388.6	381.9	393.0	399.4	389.6	0- 10	36.98	36.98	2.18,4.11
20	373.4	414.3	451.6	405.1	374.5	411.1	438.8	405.2	10- 20	113.7	150.7	8.89,16.7
30	311.5	433.1	531.1	418.0	316.9	428.8	512.8	416.7	20- 30	192.8	343.5	20.3,38.2
40	199.5	421.3	643.7	409.5	208.7	422.8	626.0	399.2	30- 40	263.4	606.8	35.8,67.4
50	119.8	335.6	867.9	326.3	128.0	352.5	836.8	314.1	40- 50	324.2	931.0	55,103
60	86.72	170.4	1124	170.5	88.69	190.7	1061	163.0	50- 60	369.1	1300	76.7,144
70	37.98	92.77	367.4	94.56	39.70	100.6	335.4	88.88	60- 70	267.4	1567	92.5,174
80	29.23	35.76	72.48	36.53	31.17	35.13	71.97	32.57	70- 80	99.15	1667	98.4,185
90	2.685	0.4423	1.994	0.9522	20.81	0.4164	1.017	0	80- 90	26.73	1693	99.9,188
100	4.272	0	0	0	6.504	0	0.8516	0	90-100	0.4290	1694	100,188
110	0	0	0	0	0	0	0.8495	0.0025	100-110	0.2073	1694	100,188
120	0	0	0	0	0	0	0.6796	0.0851	110-120	0.0806	1694	100,188
130	0	0	0.1699	0	0	0	0.5073	0.0851	120-130	0.0734	1694	100,188
140	0	0	0.1699	0	0	0	0.1699	0.0851	130-140	0.0503	1694	100,188
150	0	0	0.1699	0	0	0	0.1699	0.0851	140-150	0.0429	1694	100,188
160	0	0	0.1699	0	0	0	0.1699	0.0851	150-160	0.0322	1694	100,188
170	0	0	0.1699	0	0	0	0.1699	0.0851	160-170	0.0192	1694	100,188
180	0	0.0852	0.1699	0.1701	0	0	0.1699	0.0851	170-180	0.0072	1694	100,188
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

ISOCANDELA DIAGRAM

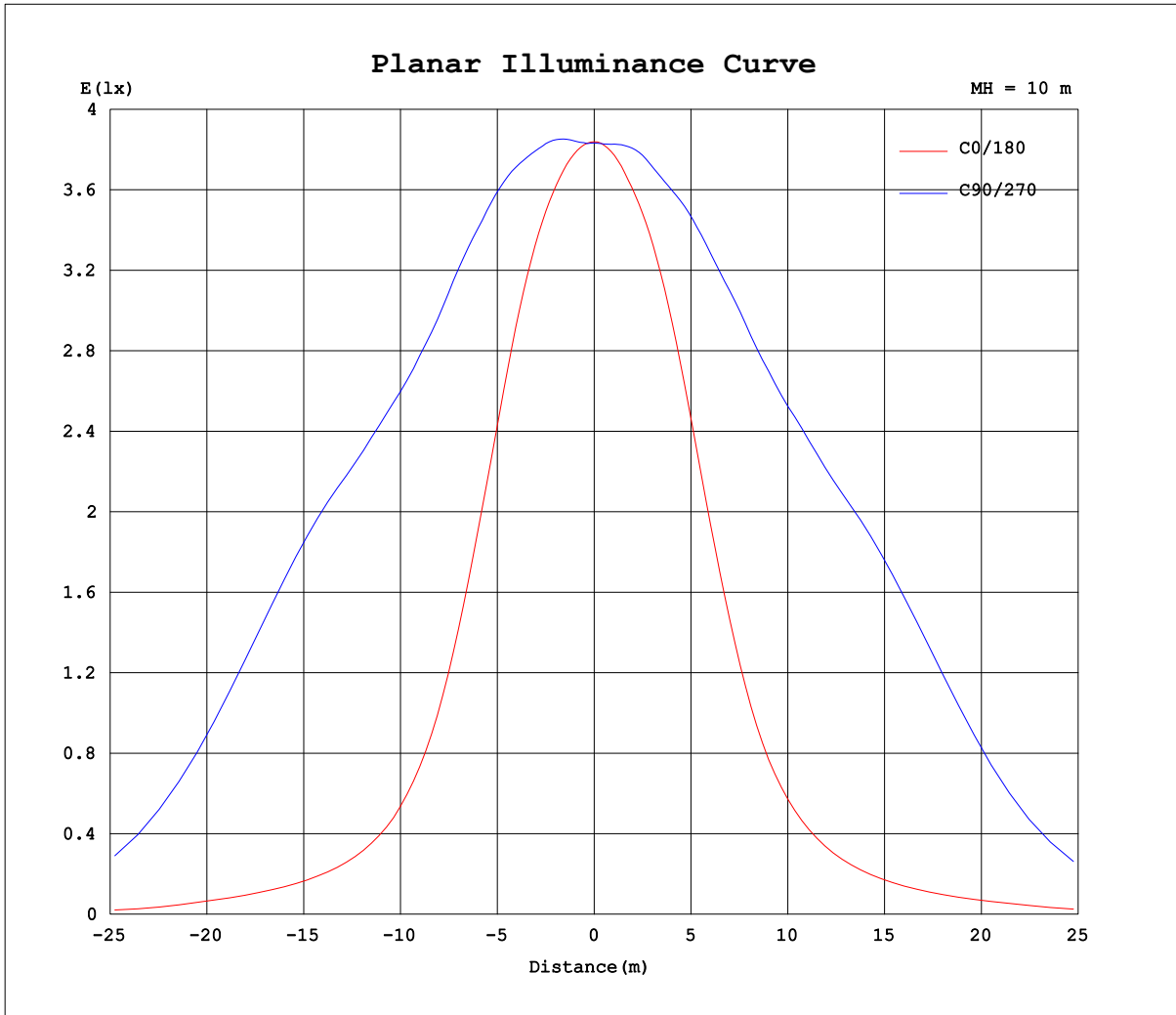
Test:U:9.414V I:1.610A P:15.15W PF:1.000 Freq:0Hz Lamp Flux:900.17x1 lm		
NAME: Integrated solar street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

Planar Illuminance Curve



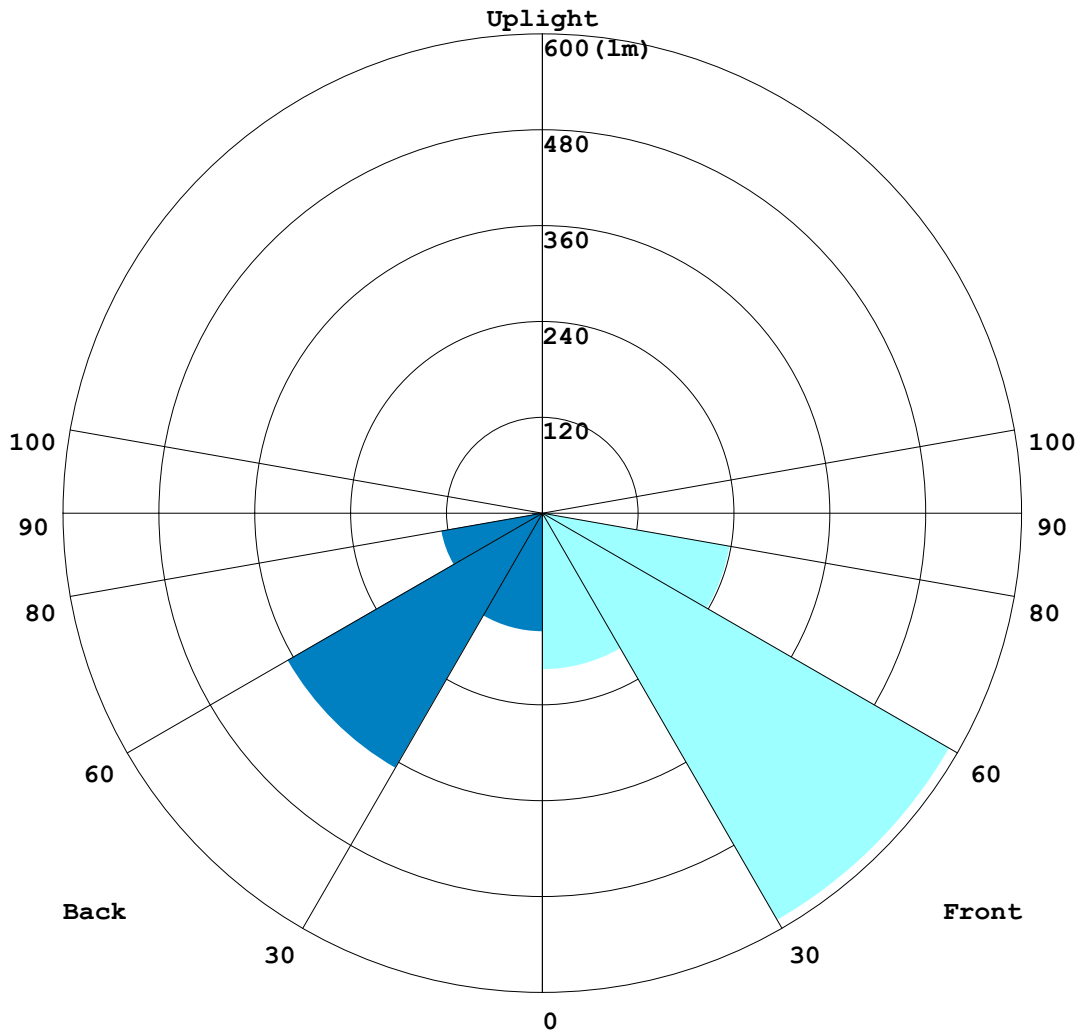
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2017-05-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.4966]
Remarks:

LCS REPORT

Test:U:9.414V I:1.610A P:15.15W PF:1.000 Freq:0Hz Lamp Flux:900.17x1 lm		
NAME: Integrated solar street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

BUG REPORT

Test:U:9.414V I:1.610A P:15.15W PF:1.000 Freq:0Hz Lamp Flux:900.17x1 lm		
NAME: Integrated solar street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	195.46	11.5
FM - Front-Medium(30-60)	588.33	34.7
FH - Front-High(60-80)	238.3	14.1
FVH - Front-Very High(80-90)	13.94	0.8
Total Forward Light	1036.5	61.2

BL - Back-Low(0-30)	148	8.7
BM - Back-Medium(30-60)	368.34	21.7
BH - Back-High(60-80)	128.2	7.6
BVH - Back-Very High(80-90)	12.791	0.8
Total Back Light	657.76	38.8

UL - Uplight-Low(90-100)	0.42902	0.0
UH - Uplight-High(100-180)	0.51323	0.0
Total Up Light	0.94225	0.1

BUG(Back,Up,Glare) Rating	B1-U1-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	657.33	0.42679	657.76
Street Side	1036	0.51547	1036.5

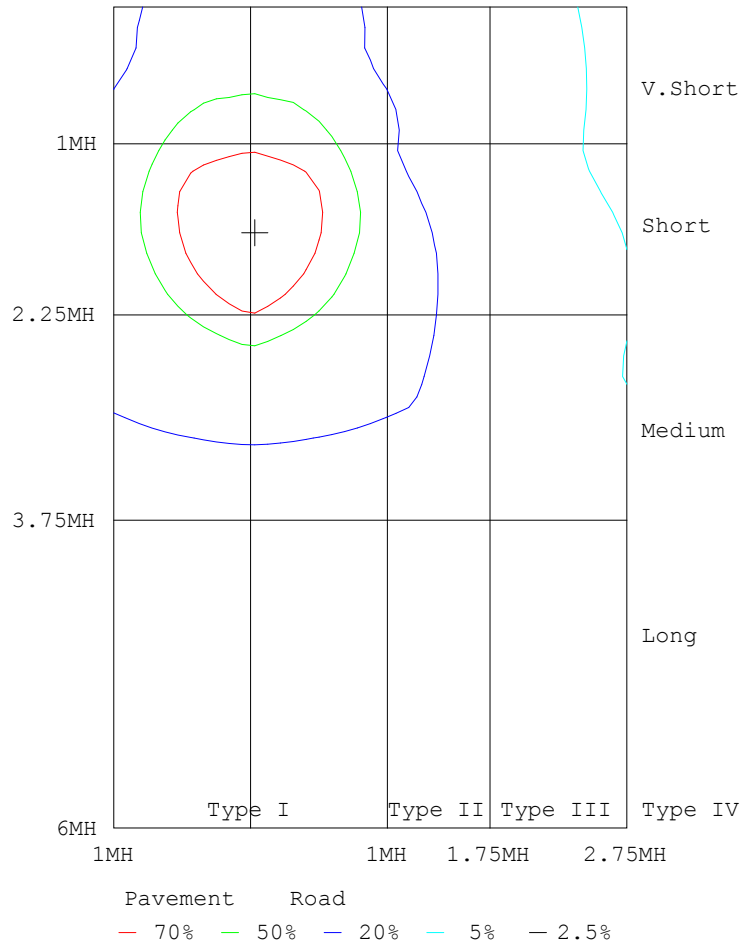
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:9.414V I:1.610A P:15.15W PF:1.000 Freq:0Hz Lamp Flux:900.17x1 lm		
NAME: Integrated solar street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:9.414V I:1.610A P:15.15W PF:1.000 Freq:0Hz Lamp Flux:900.17x1 lm		
NAME: Integrated solar street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	384	385	384	383	383	382	383	383	384	385	384	383	383	382	383	383			
5	384	385	386	387	388	385	383	383	383	385	386	387	387	387	385	383			
10	383	386	393	398	403	397	389	383	382	386	393	400	399	397	390	384			
15	382	388	403	415	424	412	396	384	381	389	401	417	416	412	397	384			
20	373	388	414	436	452	431	405	382	374	388	411	438	439	430	405	380			
25	350	375	425	464	489	459	412	368	354	377	421	467	473	459	411	366			
30	312	345	433	498	531	494	418	339	317	351	429	501	513	493	417	336			
35	258	301	434	538	584	535	420	296	266	309	430	542	564	532	414	293			
40	200	245	421	593	644	587	409	241	209	256	423	596	626	583	399	238			
45	152	185	390	665	735	657	380	185	162	198	400	667	714	649	367	181			
50	120	141	336	728	868	720	326	144	128	152	353	737	837	704	314	139			
55	101	115	252	752	1043	744	246	117	105	121	275	764	996	710	237	114			
60	86.7	92.5	170	666	1124	664	170	93.6	88.7	96.3	191	689	1061	609	163	90.9			
65	62.8	75.7	123	455	874	458	122	78.7	72.1	79.8	134	479	799	406	117	73.6			
70	38.0	44.2	92.8	268	367	273	94.6	48.2	39.7	51.0	101	284	335	242	88.9	41.6			
75	36.1	38.2	53.7	171	155	174	56.6	38.1	35.6	38.8	57.7	182	151	159	49.8	34.2			
80	29.2	31.5	35.8	102	72.5	106	36.5	32.6	31.2	33.2	35.1	120	72.0	89.6	32.6	30.1			
85	23.4	24.1	13.8	28.4	17.3	30.0	18.7	24.4	24.9	26.1	20.7	35.7	13.9	23.7	13.3	22.2			
90	2.69	1.33	0.44	1.15	1.99	1.55	0.95	5.73	20.8	8.51	0.42	1.35	1.02	0.25	0.00	1.18			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.26	0.09	0.00	0.00			
100	4.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.26	0.85	0.17	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.85	0.17	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.85	0.17	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.85	0.17	0.09	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.68	0.17	0.09	0.00			
125	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.34	0.76	0.17	0.09	0.00			
130	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.51	0.17	0.09	0.08			
135	0.00	0.00	0.00	0.09	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.17	0.09	0.17			
140	0.00	0.00	0.00	0.09	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.17	0.09	0.17			
145	0.00	0.00	0.00	0.09	0.17	0.09	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.17	0.09	0.17			
150	0.00	0.00	0.00	0.09	0.17	0.09	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.17	0.09	0.17			
155	0.00	0.00	0.00	0.09	0.17	0.09	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.17	0.09	0.17			
160	0.00	0.00	0.00	0.09	0.17	0.09	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.17	0.09	0.17			
165	0.00	0.00	0.00	0.09	0.17	0.09	0.00	0.00	0.00	0.00	0.00	0.25	0.17	0.17	0.09	0.17			
170	0.00	0.00	0.00	0.09	0.17	0.09	0.00	0.00	0.00	0.00	0.00	0.09	0.17	0.17	0.09	0.17			
175	0.00	0.00	0.00	0.09	0.17	0.09	0.17	0.00	0.00	0.00	0.00	0.09	0.17	0.17	0.09	0.17			
180	0.00	0.00	0.09	0.17	0.17	0.09	0.17	0.17	0.00	0.00	0.00	0.09	0.17	0.17	0.09	0.17			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks: