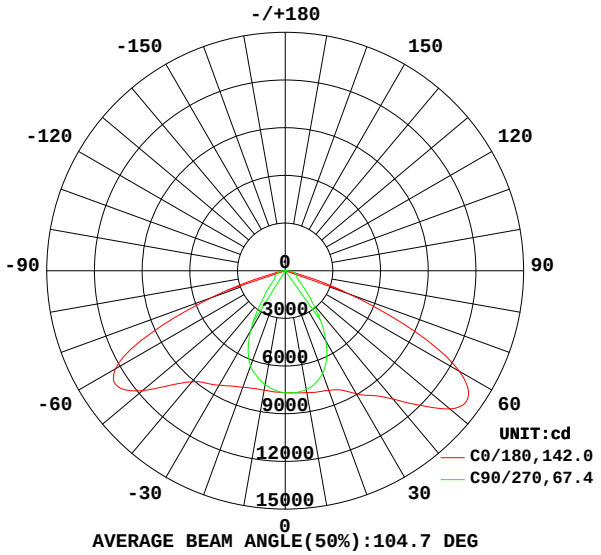
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:0V I:0A P:120.0W PF:0 Freq:0Hz Lamp Flux:20442x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	SUR.:	Shielding Angle:N/A

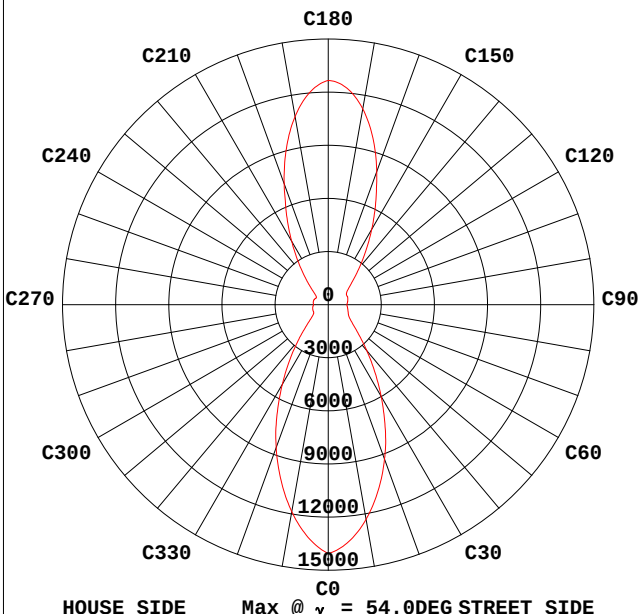
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 170.4 lm/W	
MODEL	JKC-ZC-120W	Imax(cd)	13634	η street_up(%)	0.2
NOMINAL POWER(W)	120	LOR(%)	100.0	η street_down(%)	52.4
RATED VOLTAGE(V)	36	TOTAL FLUX(lm)	20442	η house_up(%)	0.2
NOMINAL FLUX(lm)	20442	MAXIMUM @(C,γ)	0,54.0	η house_down(%)	47.2
LAMPS INSIDE	1	η up(%)	0.5	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	36	η down(%)	99.5	SLI	21.768

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):104.7 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



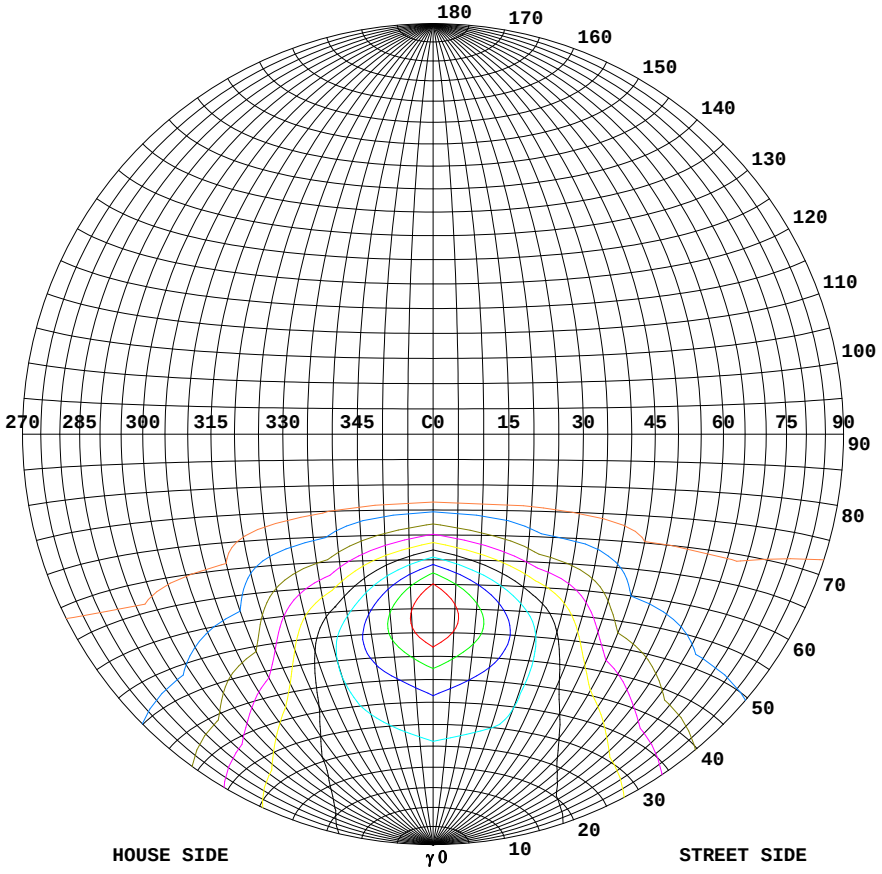
HOUSE SIDE Max @ γ = 54.0DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity:56.4%
Test Distance:26.000m [K=1.4046]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:0V I:0A P:120.0W PF:0 Freq:0Hz Lamp Flux:20442x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	SUR.:	Shielding Angle:N/A



Classification:

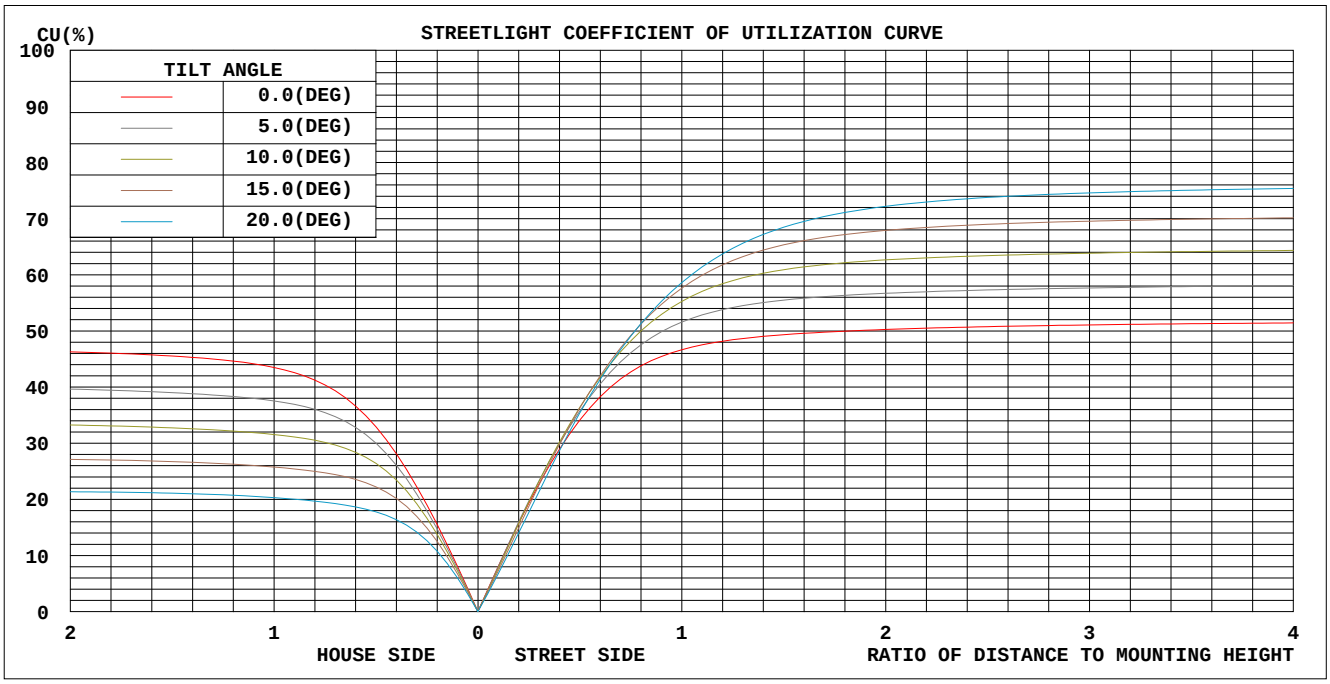
IES:Type I - Short
CIE:Narrow - Short
IES:Cut-off
CIE:Full cut-off
Max.At80:25.62cd/klm
Max.At90:3.259cd/klm
Max.80-90:25.62cd/klm

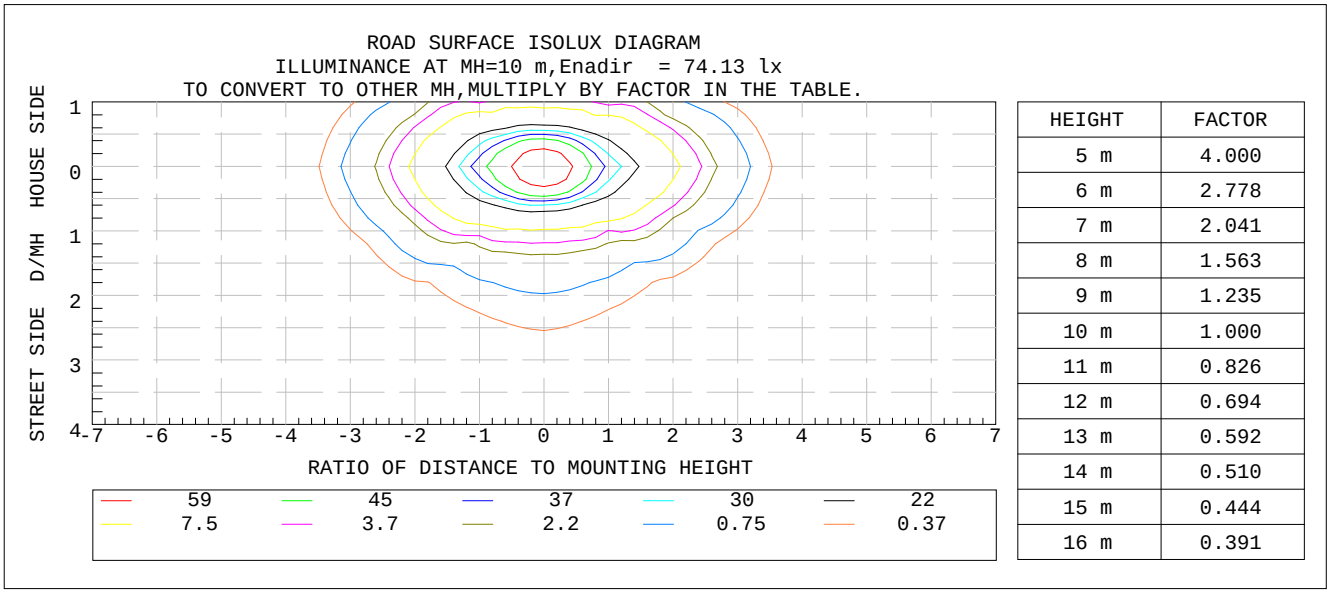
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	13633
90%	12270
80%	10907
70%	9543
60%	8180
50%	6816
40%	5453
30%	4090
20%	2727
10%	1363
5%	682

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity:56.4%
Test Distance:26.000m [K=1.4046]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity:56.4%
Test Distance:26.000m [K=1.4046]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:0V I:0A P:120.0W PF:0 Freq:0Hz Lamp Flux:20442x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	SUR.:	Shielding Angle:N/A

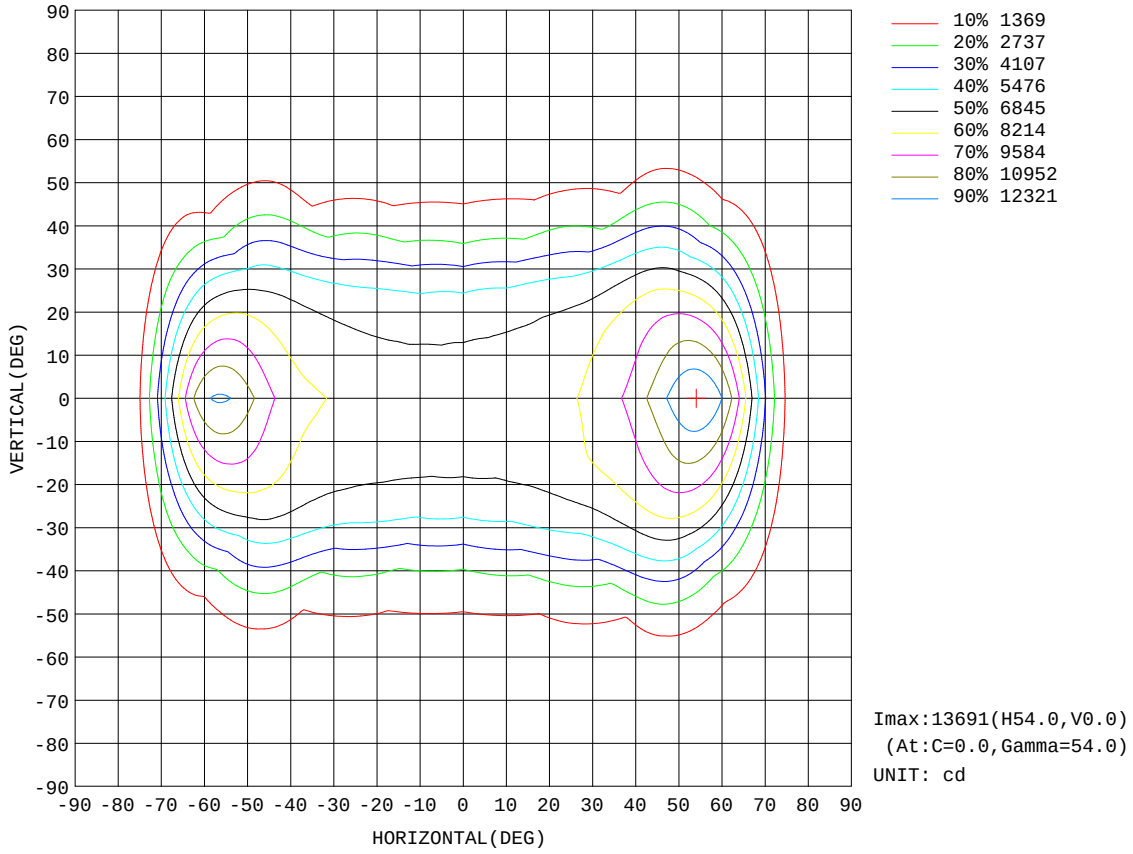
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	755.1	745.7	736.7	742.1	740.2	717.4	705.5	729.6	0- 10	705.8	705.8	3.45,3.45
20	776.9	727.1	665.6	719.2	757.2	672.2	619.5	702.2	10- 20	2039	2745	13.4,13.4
30	866.7	683.4	497.1	656.9	806.4	600.4	423.3	652.9	20- 30	3132	5877	28.7,28.7
40	1022	560.7	266.6	509.1	884.9	443.6	195.6	494.3	30- 40	3749	9626	47.1,47.1
50	1312	339.2	132.2	278.2	1139	208.5	94.97	251.7	40- 50	3916	13542	66.2,66.2
60	1227	135.5	84.22	120.9	1196	81.23	71.81	104.2	50- 60	3665	17207	84.1,84.1
70	417.6	68.77	73.00	62.57	479.0	49.58	57.80	56.63	60- 70	2250	19456	95.1,95.1
80	33.76	39.83	54.02	36.22	40.58	24.55	34.59	27.63	70- 80	720.4	20177	98.7,98.7
90	0.4260	2.522	7.356	1.203	1.101	0.1514	0.2113	0.1457	80- 90	177.9	20355	99.5,99.5
100	0.4114	0.2042	0.3573	0.1739	0.5962	0.2813	0.2923	0.2477	90-100	3.347	20358	99.5,99.5
110	0.984	0.4603	2.779	0.4654	1.538	0.7582	1.409	0.5908	100-110	6.192	20364	99.6,99.6
120	1.499	0.9140	4.782	0.9167	2.158	1.601	2.197	1.144	110-120	13.00	20378	99.6,99.6
130	2.121	1.553	3.146	1.559	2.194	2.327	3.898	1.736	120-130	17.62	20395	99.7,99.7
140	2.361	2.124	3.393	2.119	1.999	2.626	4.853	2.105	130-140	19.38	20415	99.8,99.8
150	2.325	2.853	2.531	2.717	1.991	2.615	3.534	2.164	140-150	16.57	20431	99.9,99.9
160	2.223	2.529	2.465	2.310	2.066	2.354	2.649	2.434	150-160	11.80	20443	100,100
170	2.301	2.584	2.919	2.235	2.116	2.212	3.094	2.550	160-170	6.849	20450	100,100
180	2.455	2.697	3.043	2.222	2.411	2.522	3.072	2.571	170-180	2.400	20452	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity:56.4%
Test Distance:26.000m [K=1.4046]
Remarks:

ISOCANDELA DIAGRAM

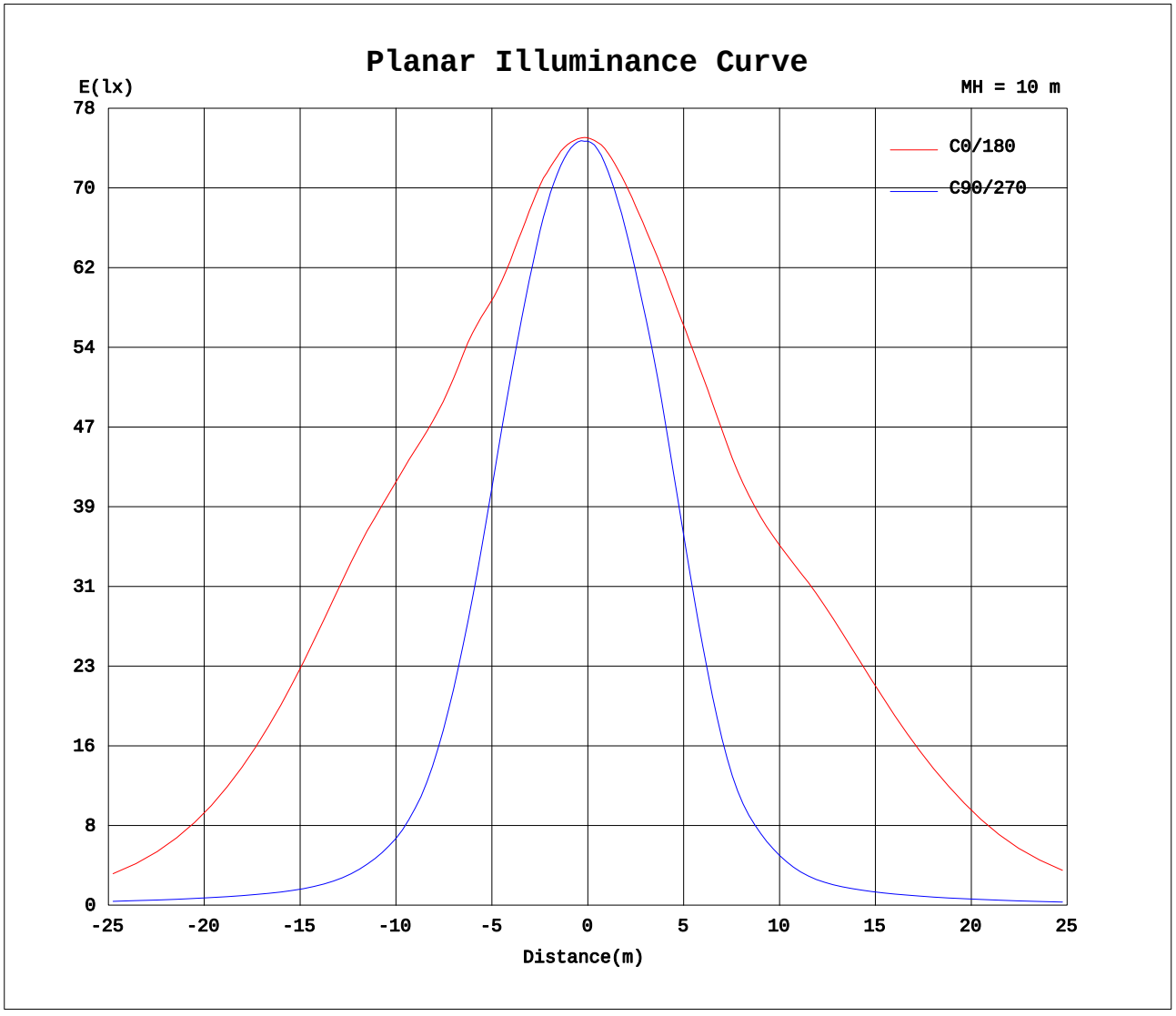
Test:U:0V I:0A P:120.0W PF:0 Freq:0Hz Lamp Flux:20442x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity:56.4%
Test Distance:26.000m [K=1.4046]
Remarks:

Planar Illuminance Curve



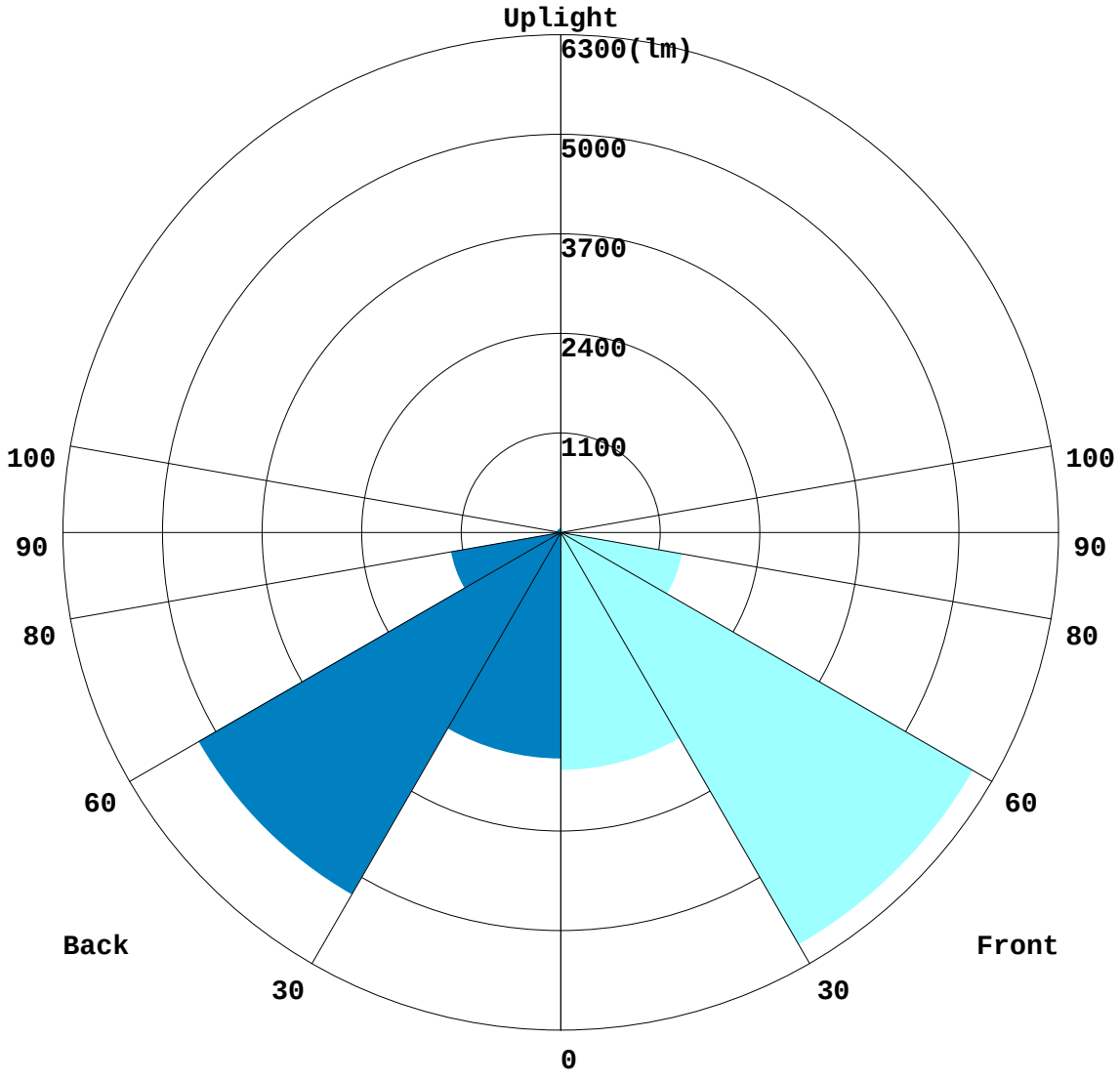
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity:56.4%
Test Distance:26.000m [K=1.4046]
Remarks:

LCS REPORT

Test:U:0V I:0A P:120.0W PF:0 Freq:0Hz Lamp Flux:20442x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	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:William
Test Date:2020-12-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity:56.4%
Test Distance:26.000m [K=1.4046]
Remarks:

BUG REPORT

Test:U:0V I:0A P:120.0W PF:0 Freq:0Hz Lamp Flux:20442x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	SUR.:	Shielding Angle:N/A

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	3011.3	14.7
FM - Front-Medium(30-60)	6031.4	29.5
FH - Front-High(60-80)	1560.1	7.6
FVH - Front-Very High(80-90)	108.6	0.5
Total Forward Light	10758	52.6
BL - Back-Low(0-30)	2866.1	14.0
BM - Back-Medium(30-60)	5298	25.9
BH - Back-High(60-80)	1410.3	6.9
BVH - Back-Very High(80-90)	69.412	0.3
Total Back Light	9694.1	47.4
UL - Uplight-Low(90-100)	3.321	0.0
UH - Uplight-High(100-180)	93.805	0.5
Total Up Light	97.216	0.5

BUG(Back,Up,Glare) Rating	B4-U3-G3

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	9643.8	50.53	9694
Street Side	10712	46.725	10758

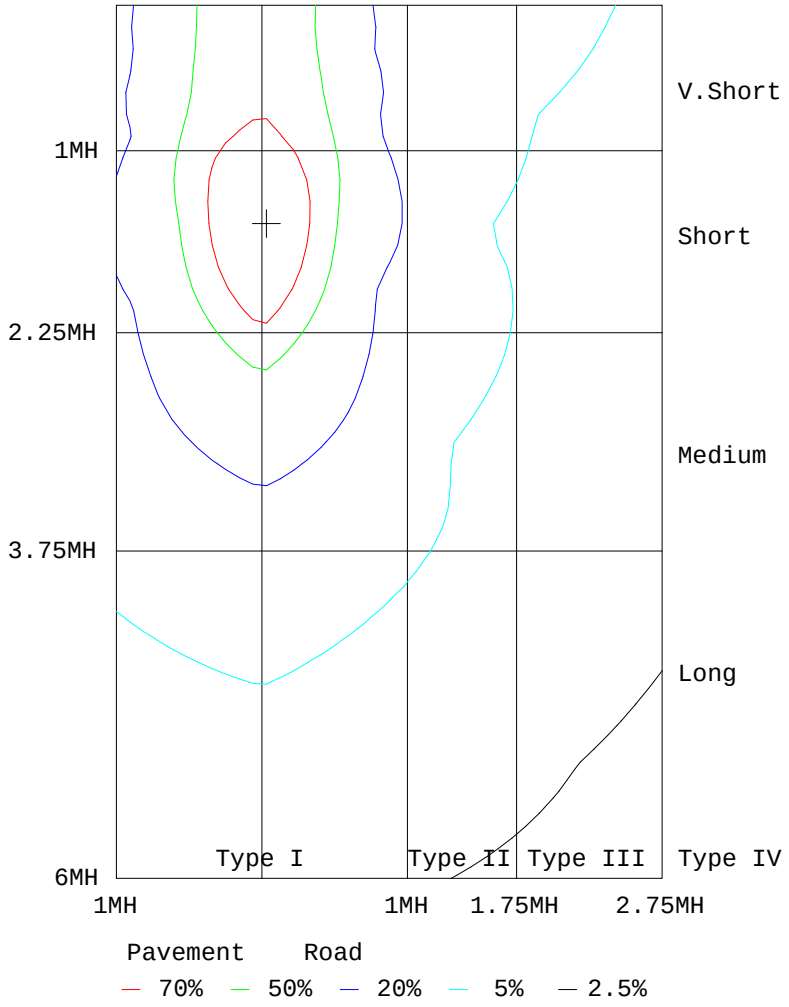
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity:56.4%
Test Distance:26.000m [K=1.4046]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:0V I:0A P:120.0W PF:0 Freq:0Hz Lamp Flux:20442x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	SUR.:	Shielding Angle:N/A

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity:56.4%
Test Distance:26.000m [K=1.4046]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:0V I:0A P:120.0W PF:0 Freq:0Hz Lamp Flux:20442x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	SUR.:	Shielding Angle:N/A

Table--1 UNIT: ×10cd

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	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744
5	749	748	747	747	746	746	744	744	742	740	736	732	731	734	740	743
10	755	754	746	740	737	739	742	745	740	734	718	706	705	714	729	747
15	766	758	739	720	711	719	736	748	744	725	695	672	667	687	717	745
20	777	764	728	684	665	682	719	754	758	720	672	630	620	652	702	746
25	804	778	707	633	597	624	695	760	777	720	643	565	536	590	687	760
30	867	811	684	557	497	537	657	770	806	726	600	471	423	497	653	791
35	929	839	637	460	382	430	598	777	838	732	535	356	295	376	588	821
40	1022	861	561	345	267	312	509	786	885	735	443	239	196	253	495	855
45	1161	885	462	239	184	213	399	792	987	725	326	159	137	174	374	876
50	1312	881	340	161	132	151	278	764	1139	687	209	106	95.0	119	251	843
55	1360	797	223	112	97	108	181	663	1240	589	127	79.0	78.2	85.6	164	720
60	1227	607	136	86.3	84.2	83.4	121	489	1196	407	81.2	67.7	71.8	71.2	104	518
65	867	346	89.0	74.9	78.3	71.7	81.5	285	909	210	62.3	58.9	66.1	61.7	72.4	294
70	417	150	68.8	66.2	73.0	62.8	62.6	131	479	91.0	49.6	48.3	57.8	51.6	56.6	133
75	115	72.9	54.5	53.3	63.1	50.5	49.4	64.3	133	51.1	37.8	35.1	50.5	38.4	43.3	65.5
80	33.8	43.3	39.9	36.4	54.0	34.7	36.2	37.0	40.5	29.9	24.5	23.5	34.6	25.5	27.6	37.2
85	10.3	19.9	20.3	19.9	31.9	19.0	17.4	15.3	9.37	10.1	9.06	12.7	15.8	13.6	10.1	13.5
90	0.43	1.40	2.52	5.43	7.35	3.89	1.20	0.48	1.10	0.17	0.16	0.18	0.21	0.16	0.15	0.19
95	0.29	0.21	0.17	0.17	0.19	0.18	0.16	0.20	0.28	0.22	0.18	0.20	0.21	0.18	0.16	0.20
100	0.41	0.19	0.20	0.21	0.36	0.18	0.17	0.22	0.59	0.44	0.28	0.30	0.29	0.26	0.25	0.37
105	0.70	0.34	0.28	0.30	1.78	0.30	0.28	0.33	1.06	0.81	0.47	0.50	0.62	0.44	0.40	0.66
110	0.98	0.54	0.46	0.58	2.77	0.57	0.47	0.56	1.54	1.22	0.76	0.83	1.41	0.69	0.59	1.00
115	1.21	0.77	0.68	0.89	4.70	0.91	0.69	0.81	1.95	1.64	1.15	1.26	1.66	0.98	0.84	1.31
120	1.49	1.03	0.91	1.15	4.78	1.22	0.92	1.07	2.16	1.98	1.60	1.83	2.19	1.38	1.14	1.58
125	1.87	1.51	1.21	1.73	3.70	1.88	1.21	1.58	2.19	2.21	1.84	2.18	3.18	1.78	1.33	1.75
130	2.12	2.26	1.55	2.31	3.14	2.34	1.56	2.24	2.19	2.48	2.33	3.07	3.90	2.15	1.74	2.08
135	2.18	2.53	1.85	2.24	2.17	2.20	1.88	2.48	2.10	2.50	2.61	3.64	4.09	2.54	2.01	2.19
140	2.36	2.68	2.12	2.48	3.40	2.38	2.11	2.68	2.00	2.52	2.63	3.70	4.85	2.70	2.10	2.21
145	2.35	2.66	2.66	2.49	2.64	2.27	2.55	2.52	1.94	2.14	2.65	3.80	4.74	2.85	2.16	2.09
150	2.33	2.60	2.85	2.48	2.53	2.16	2.72	2.43	1.99	2.11	2.62	3.38	3.53	2.86	2.16	2.08
155	2.29	2.50	2.53	2.70	3.15	2.68	2.42	2.33	2.06	2.10	2.56	3.36	3.75	3.34	2.07	2.09
160	2.22	2.22	2.53	2.43	2.46	2.28	2.31	2.06	2.07	2.10	2.36	3.12	2.65	2.60	2.43	2.01
165	2.26	2.23	2.49	2.76	2.81	2.56	2.29	2.03	2.09	2.09	2.14	2.89	3.04	2.83	2.57	1.97
170	2.30	2.45	2.58	2.84	2.92	2.57	2.23	2.09	2.11	2.10	2.21	2.63	3.09	2.69	2.55	2.03
175	2.46	2.57	2.81	2.99	2.84	2.44	2.29	2.23	2.33	2.31	2.35	2.62	3.07	2.75	2.58	2.10
180	2.45	2.54	2.70	3.07	3.05	2.57	2.22	2.14	2.42	2.44	2.52	2.74	3.07	3.04	2.57	2.20

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.362
Humidity:56.4%
Test Distance:26.000m [K=1.4046]
Remarks: