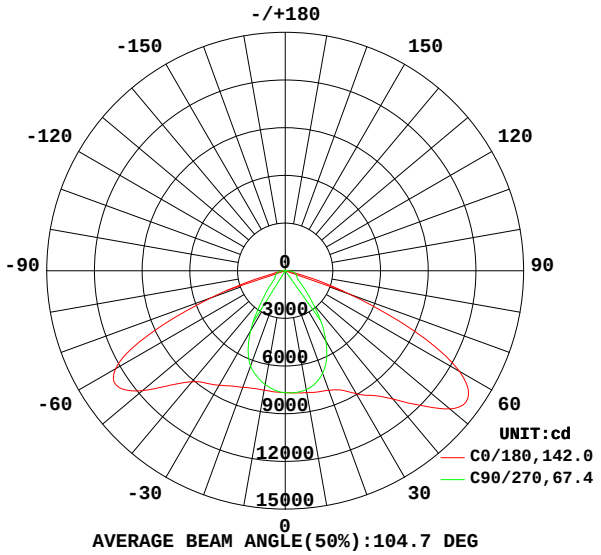
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:0V I:0A P:60.0W PF:0 Freq:0Hz Lamp Flux:10200x1 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

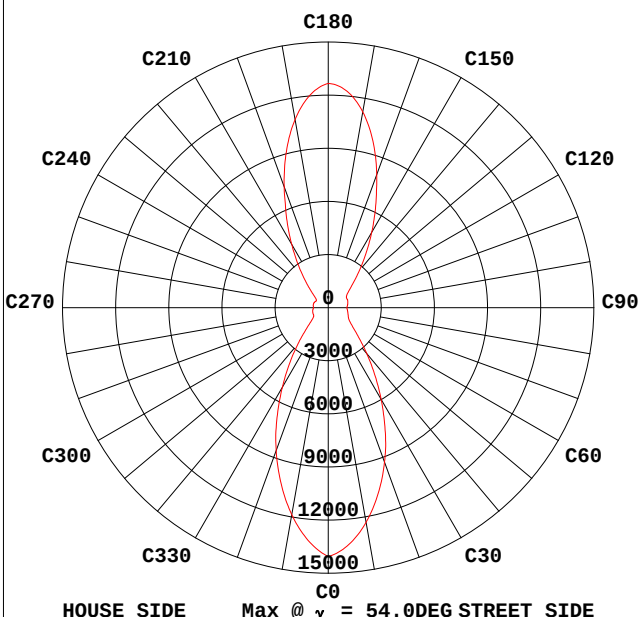
DATA OF LAMP		PHOTOMETRIC DATA Eff: 170lm/W			
MODEL	JKC-ZC-60W	Imax(cd)	6803	η street_up(%)	0.2
NOMINAL POWER(W)	60	LOR(%)	100.0	η street_down(%)	52.4
RATED VOLTAGE(V)	36	TOTAL FLUX(lm)	10200	η house_up(%)	0.2
NOMINAL FLUX(lm)	10200	MAXIMUM @(C,γ)	0,54.0	η house_down(%)	47.2
LAMPS INSIDE	1	η up(%)	0.5	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



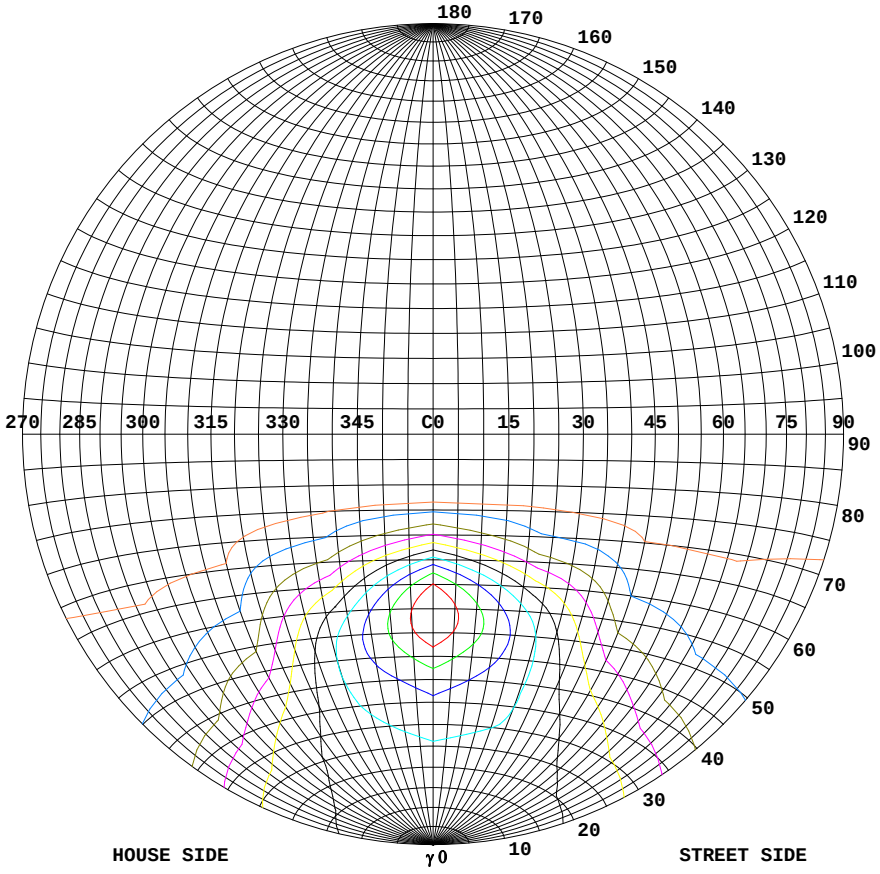
HOUSE SIDE Max @ γ = 54.0DEG STREET SIDE

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:60.0W PF:0 Freq:0Hz Lamp Flux:10200x1 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:

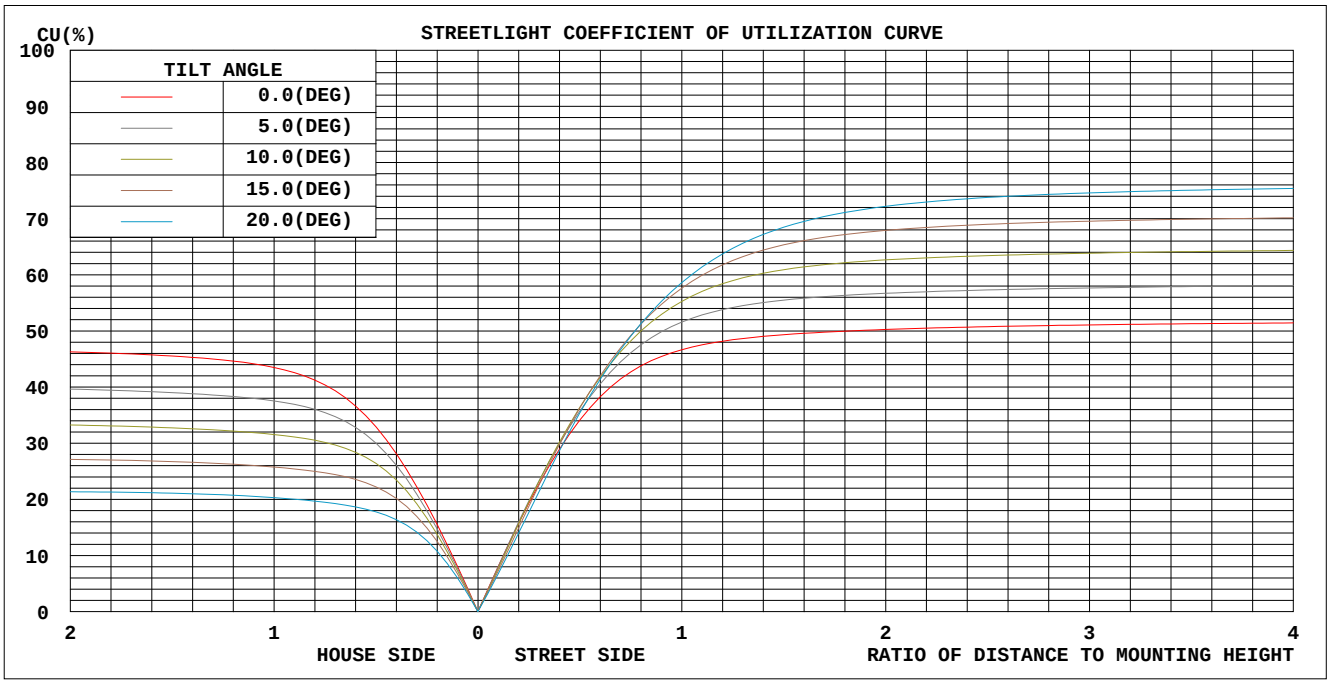
IES:Type I - Short
CIE:Narrow - Short
IES:Cut-off
CIE:Full cut-off
Max.At80:12.78cd/klm
Max.At90:1.626cd/klm
Max.80-90:12.78cd/klm

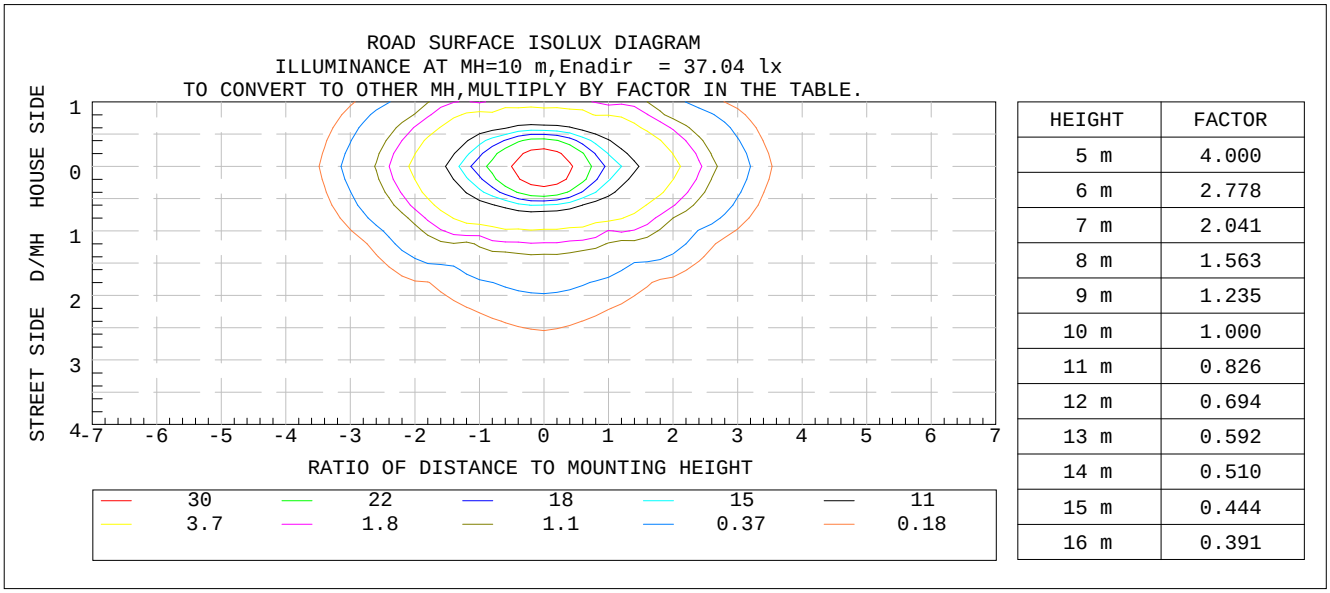
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6803
90%	6122
80%	5442
70%	4762
60%	4082
50%	3401
40%	2721
30%	2041
20%	1361
10%	680
5%	340

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:60.0W PF:0 Freq:0Hz Lamp Flux:10200x1 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

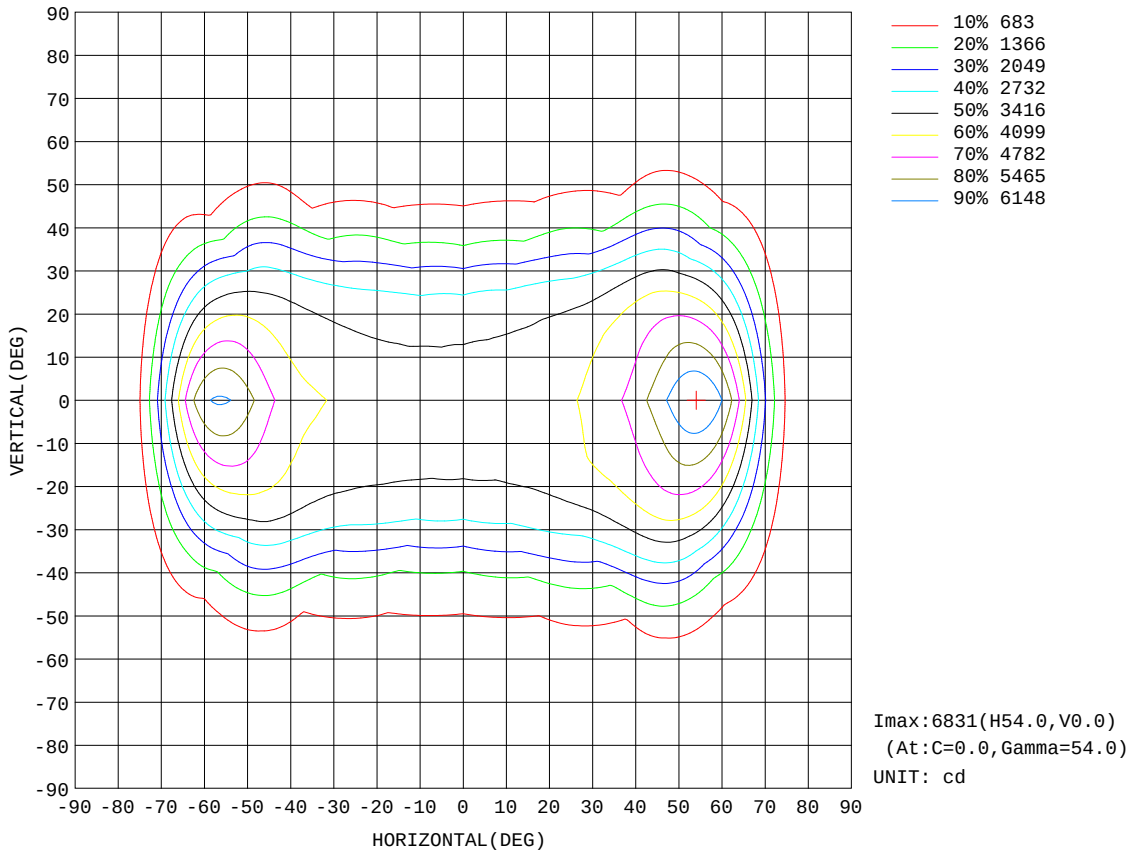
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	376.8	372.1	367.6	370.3	369.3	358.0	352.0	364.1	0- 10	352.2	352.2	3.45,3.45
20	387.6	362.8	332.1	358.8	377.8	335.4	309.1	350.4	10- 20	1017	1370	13.4,13.4
30	432.5	341.0	248.1	327.8	402.3	299.6	211.2	325.8	20- 30	1563	2933	28.7,28.7
40	510	279.8	133.0	254.0	441.6	221.3	97.6	246.6	30- 40	1871	4803	47.1,47.1
50	655	169.3	66.0	138.8	568	104.0	47.39	125.6	40- 50	1954	6757	66.2,66.2
60	612	67.6	42.02	60.3	597	40.53	35.83	52.0	50- 60	1829	8586	84.1,84.1
70	208.4	34.32	36.43	31.22	239.0	24.74	28.84	28.26	60- 70	1123	9708	95.1,95.1
80	16.84	19.87	26.95	18.07	20.25	12.25	17.26	13.78	70- 80	359.5	10068	98.7,98.7
90	0.2126	1.258	3.671	0.600	0.549	0.0756	0.1054	0.0727	80- 90	88.8	10157	99.5,99.5
100	0.2053	0.1019	0.1783	0.0868	0.2975	0.1404	0.1458	0.1236	90-100	1.670	10158	99.5,99.5
110	0.491	0.2297	1.387	0.2322	0.768	0.3783	0.703	0.2948	100-110	3.089	10161	99.6,99.6
120	0.748	0.4561	2.386	0.4574	1.077	0.799	1.096	0.571	110-120	6.49	10168	99.6,99.6
130	1.059	0.775	1.570	0.778	1.095	1.161	1.945	0.866	120-130	8.79	10177	99.7,99.7
140	1.178	1.060	1.693	1.058	0.998	1.310	2.421	1.050	130-140	9.67	10186	99.8,99.8
150	1.160	1.423	1.263	1.356	0.994	1.305	1.763	1.080	140-150	8.27	10194	99.9,99.9
160	1.109	1.262	1.230	1.152	1.031	1.175	1.322	1.214	150-160	5.89	10200	100,100
170	1.148	1.289	1.456	1.115	1.056	1.104	1.544	1.272	160-170	3.418	10204	100,100
180	1.225	1.346	1.518	1.109	1.203	1.258	1.533	1.283	170-180	1.197	10205	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

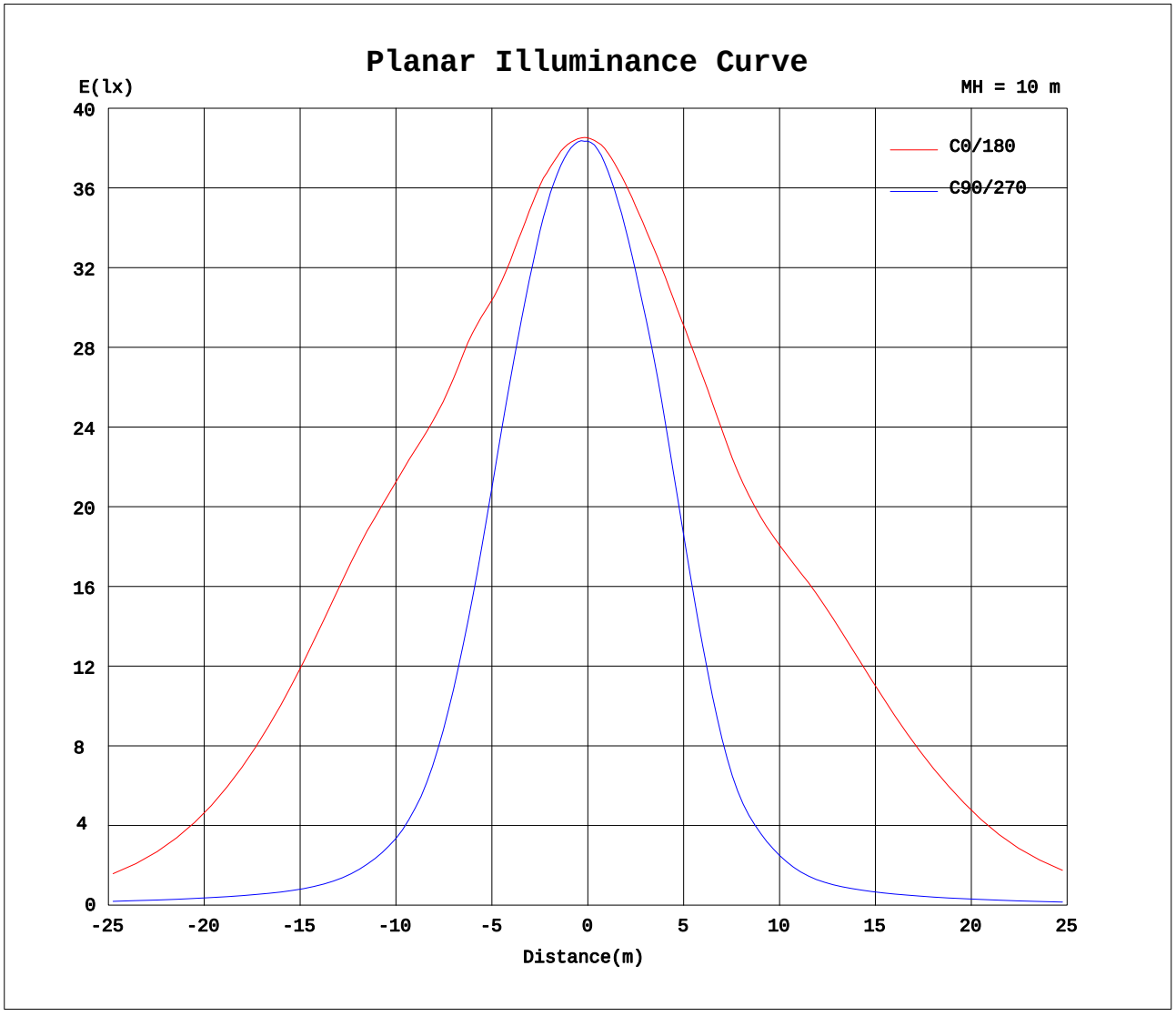
Test:U:0V I:0A P:60.0W PF:0 Freq:0Hz Lamp Flux:10200x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	SUR.:	Shielding Angle:N/A



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



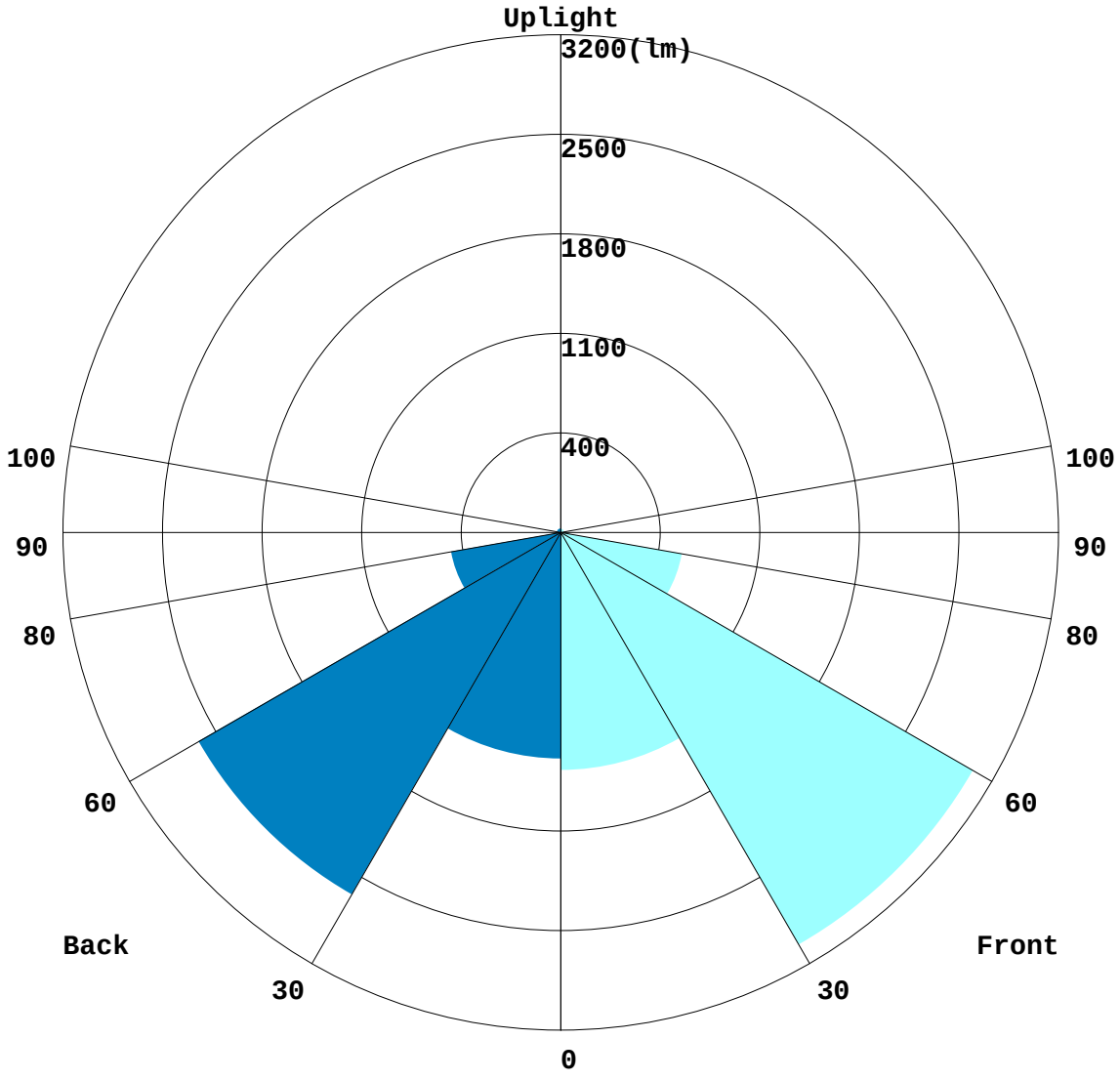
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

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:60.0W PF:0 Freq:0Hz Lamp Flux:10200x1 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:60.0W PF:0 Freq:0Hz Lamp Flux:10200x1 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)	1502.5	14.7
FM - Front-Medium(30-60)	3009.5	29.5
FH - Front-High(60-80)	778.4	7.6
FVH - Front-Very High(80-90)	54.2	0.5
Total Forward Light	5368.2	52.6
BL - Back-Low(0-30)	1430.5	14.0
BM - Back-Medium(30-60)	2643.6	25.9
BH - Back-High(60-80)	703.7	6.9
BVH - Back-Very High(80-90)	34.6	0.3
Total Back Light	4837.1	47.4
UL - Uplight-Low(90-100)	1.7	0.0
UH - Uplight-High(100-180)	46.8	0.5
Total Up Light	48.5	0.5

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

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4812	25.2	4837.2
Street Side	5344.8	23.3	5368.1

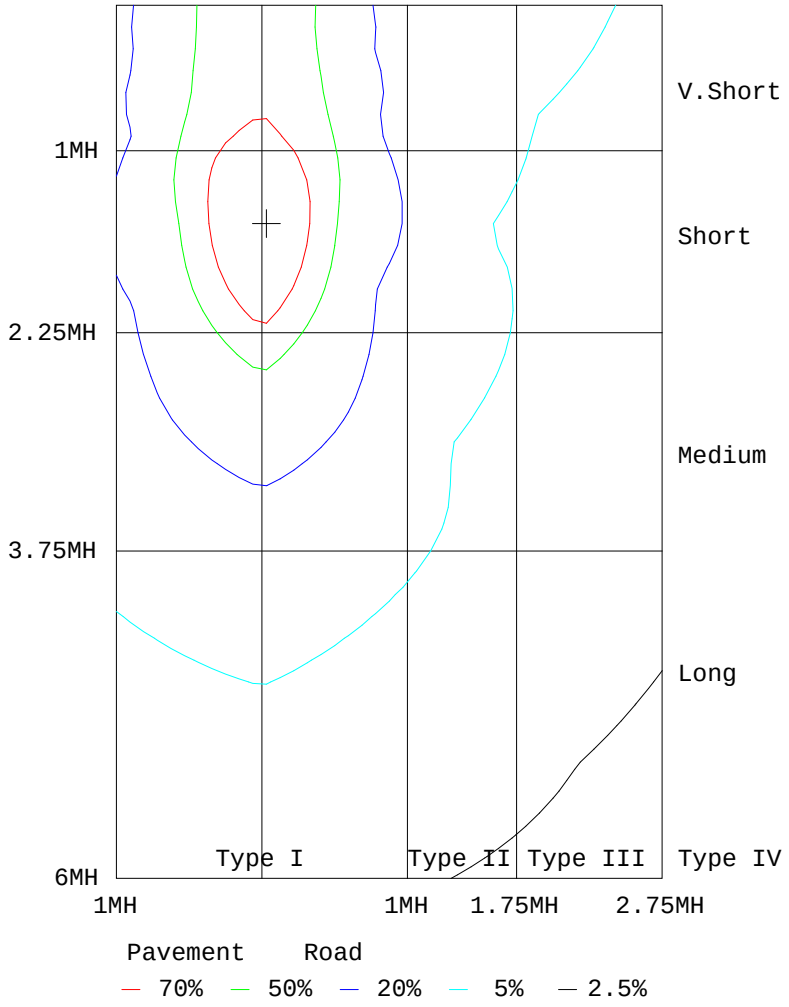
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

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:60.0W PF:0 Freq:0Hz Lamp Flux:10200x1 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:60.0W PF:0 Freq:0Hz Lamp Flux:10200x1 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

γ \ C (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	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371
5	374	373	373	373	372	372	371	371	370	369	367	365	365	366	369	371
10	377	376	372	369	368	369	370	372	369	366	358	352	352	356	364	373
15	382	378	369	359	355	359	367	373	371	362	347	335	333	343	358	372
20	388	381	363	341	332	340	359	376	378	359	335	314	309	325	350	372
25	401	388	353	316	298	311	347	379	388	359	321	282	268	294	343	379
30	433	405	341	278	248	268	328	384	402	362	300	235	211	248	326	394
35	464	419	318	229	191	214	299	388	418	365	267	178	147	188	293	409
40	510	430	280	172	133	156	254	392	441	367	221	119	98	126	247	426
45	579	441	230	119	92	106	199	395	493	362	163	79	68	87	187	437
50	655	439	169	80	66	76	139	381	568	343	104	53	47.4	60	125	421
55	679	398	111	56	48	54	91	331	619	294	63	39.4	39.0	42.7	82	359
60	612	303	68	43.1	42.0	41.6	61	244	597	203	40.5	33.8	35.8	35.5	52	258
65	433	173	44.4	37.4	39.1	35.8	40.7	142	454	105	31.1	29.4	33.0	30.8	36.1	147
70	208	75	34.3	33.0	36.4	31.3	31.2	65	239	45.4	24.7	24.1	28.8	25.7	28.3	66
75	58	36.4	27.2	26.6	31.5	25.2	24.6	32.1	66	25.5	18.9	17.5	25.2	19.2	21.6	32.7
80	16.8	21.6	19.9	18.2	27.0	17.3	18.1	18.4	20.2	14.9	12.2	11.7	17.3	12.7	13.8	18.5
85	5.1	9.9	10.1	9.9	15.9	9.5	8.7	7.6	4.68	5.0	4.52	6.3	7.9	6.8	5.0	6.7
90	0.21	0.70	1.26	2.71	3.67	1.94	0.60	0.24	0.55	0.09	0.08	0.09	0.11	0.08	0.07	0.10
95	0.15	0.11	0.09	0.09	0.10	0.09	0.08	0.10	0.14	0.11	0.09	0.10	0.11	0.09	0.08	0.10
100	0.20	0.10	0.10	0.11	0.18	0.09	0.09	0.11	0.30	0.22	0.14	0.15	0.15	0.13	0.13	0.18
105	0.35	0.17	0.14	0.15	0.89	0.15	0.14	0.16	0.53	0.41	0.23	0.25	0.31	0.22	0.20	0.33
110	0.49	0.27	0.23	0.29	1.38	0.29	0.23	0.28	0.77	0.61	0.38	0.42	0.70	0.34	0.30	0.50
115	0.61	0.38	0.34	0.45	2.35	0.45	0.34	0.41	0.97	0.82	0.58	0.63	0.83	0.49	0.42	0.65
120	0.75	0.51	0.45	0.58	2.39	0.61	0.46	0.53	1.08	0.99	0.80	0.91	1.09	0.69	0.57	0.79
125	0.93	0.76	0.61	0.86	1.84	0.94	0.61	0.79	1.09	1.10	0.92	1.09	1.59	0.89	0.66	0.87
130	1.06	1.13	0.77	1.15	1.57	1.17	0.78	1.12	1.09	1.24	1.16	1.53	1.95	1.07	0.87	1.04
135	1.09	1.26	0.92	1.12	1.08	1.10	0.94	1.24	1.05	1.25	1.30	1.82	2.04	1.27	1.00	1.09
140	1.18	1.34	1.06	1.24	1.69	1.19	1.06	1.34	1.00	1.26	1.31	1.84	2.42	1.35	1.05	1.10
145	1.17	1.33	1.33	1.24	1.32	1.13	1.27	1.26	0.97	1.07	1.32	1.90	2.37	1.42	1.08	1.04
150	1.16	1.30	1.42	1.24	1.26	1.08	1.36	1.21	0.99	1.06	1.31	1.68	1.76	1.43	1.08	1.04
155	1.14	1.25	1.26	1.35	1.57	1.34	1.21	1.16	1.03	1.05	1.28	1.67	1.87	1.66	1.03	1.04
160	1.11	1.11	1.26	1.21	1.23	1.14	1.15	1.03	1.03	1.05	1.18	1.56	1.32	1.30	1.21	1.00
165	1.13	1.11	1.24	1.38	1.40	1.28	1.14	1.01	1.04	1.04	1.07	1.44	1.51	1.41	1.28	0.98
170	1.15	1.22	1.29	1.42	1.46	1.28	1.11	1.04	1.06	1.05	1.10	1.31	1.54	1.34	1.27	1.01
175	1.23	1.28	1.40	1.49	1.42	1.22	1.14	1.11	1.16	1.15	1.17	1.31	1.53	1.37	1.29	1.05
180	1.22	1.27	1.35	1.53	1.52	1.28	1.11	1.07	1.21	1.22	1.26	1.36	1.53	1.51	1.28	1.10

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: