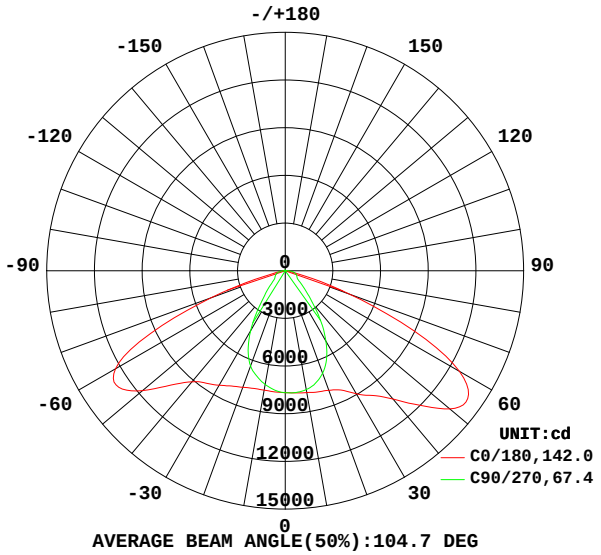
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:0V I:0A P:80.0W PF:0 Freq:0Hz Lamp Flux:13670x1 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

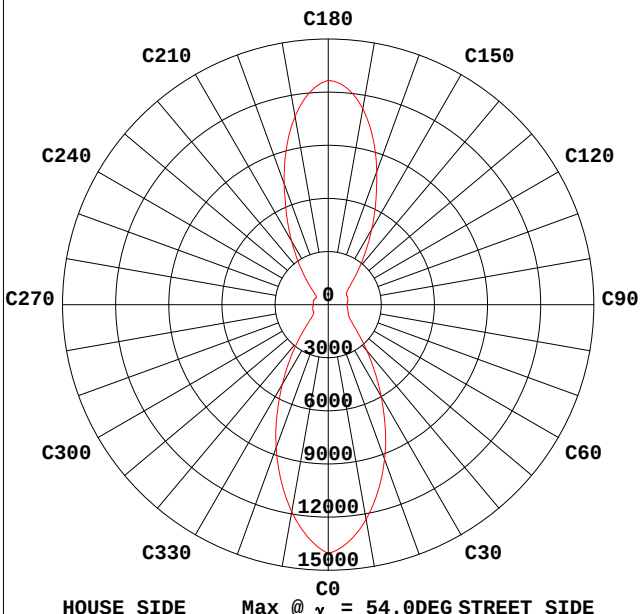
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 170.9 lm/W	
MODEL	JKC-ZC-80W	Imax(cd)	9136	η street_up(%)	0.2
NOMINAL POWER(W)	80	LOR(%)	100.0	η street_down(%)	52.4
RATED VOLTAGE(V)	36	TOTAL FLUX(lm)	13670	η house_up(%)	0.2
NOMINAL FLUX(lm)	13670	MAXIMUM @(C,γ)	0,54.0	η house_down(%)	47.2
LAMPS INSIDE	1	η up(%)	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



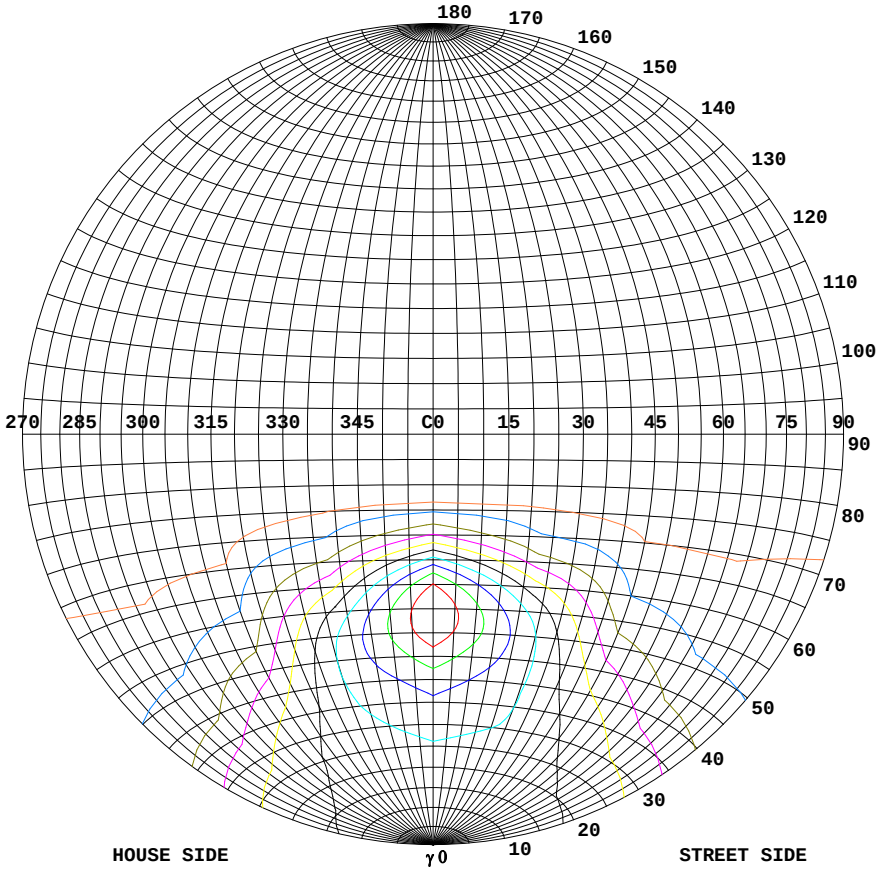
HOUSE SIDE Max @ γ = 54.0DEG STREET SIDE

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:80.0W PF:0 Freq:0Hz Lamp Flux:13670x1 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:

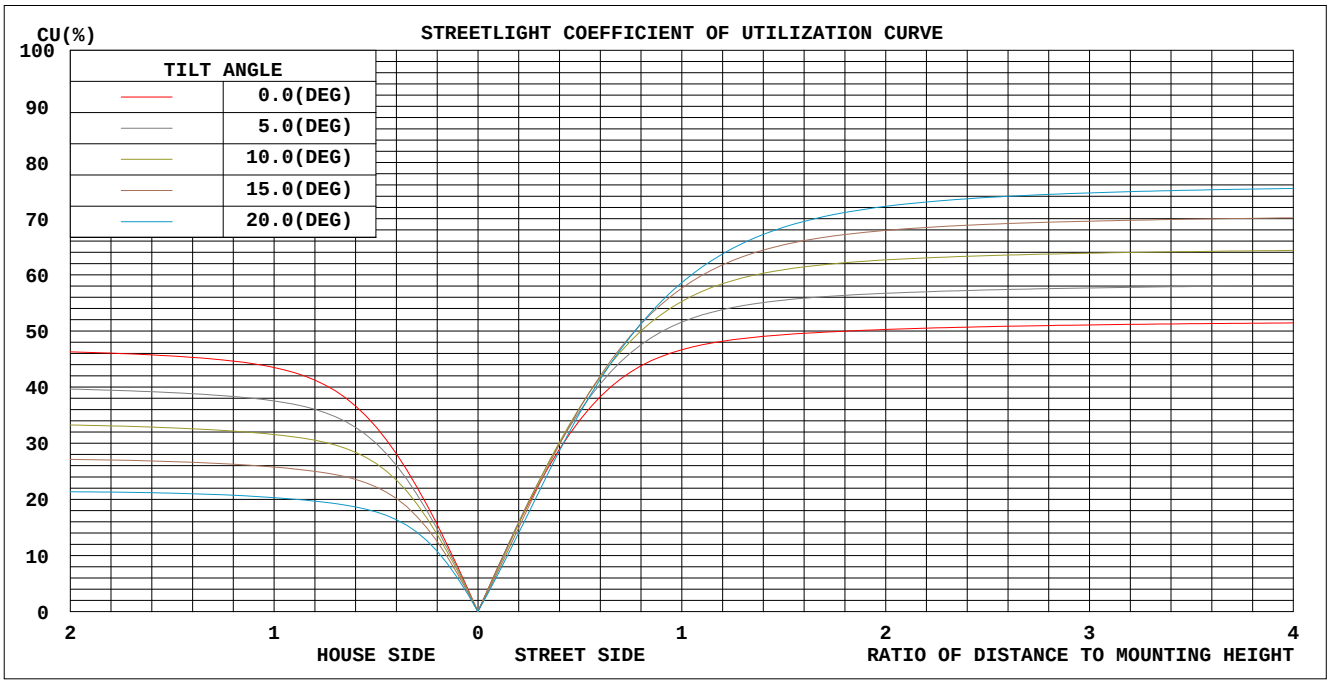
IES:Type I - Short
CIE:Narrow - Short
IES:Cut-off
CIE:Full cut-off
Max.At80:17.17cd/klm
Max.At90:2.184cd/klm
Max.80-90:17.17cd/klm

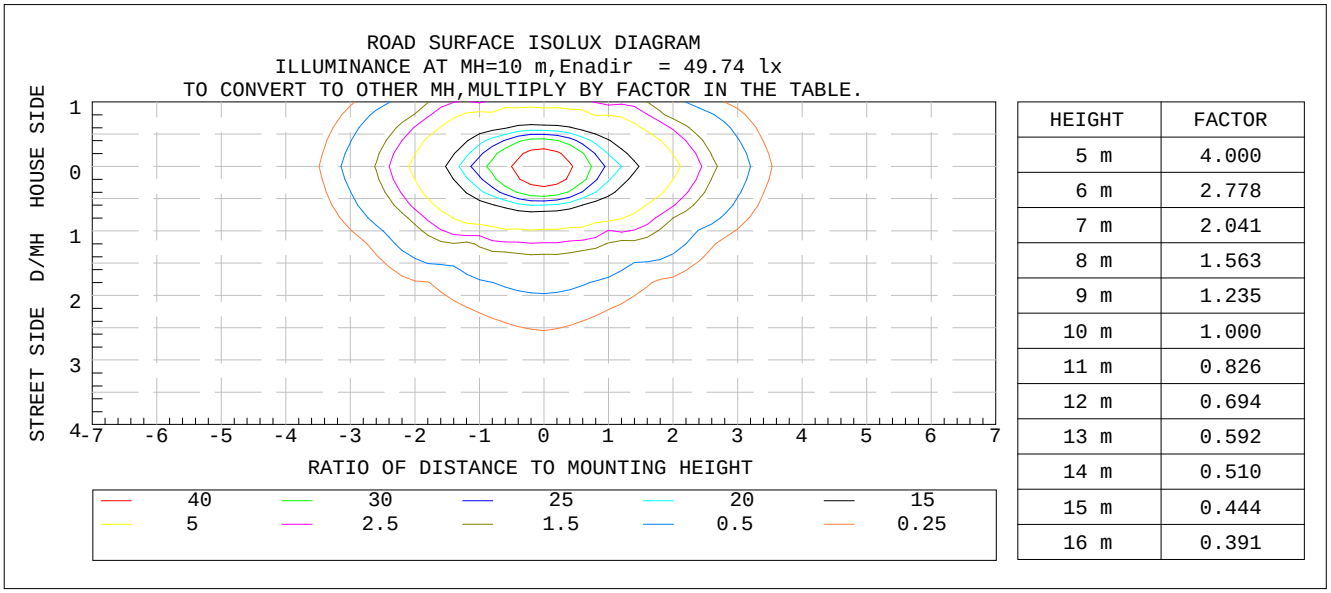
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	9136
90%	8222
80%	7309
70%	6395
60%	5481
50%	4568
40%	3654
30%	2740
20%	1827
10%	913
5%	457

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:80.0W PF:0 Freq:0Hz Lamp Flux:13670x1 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

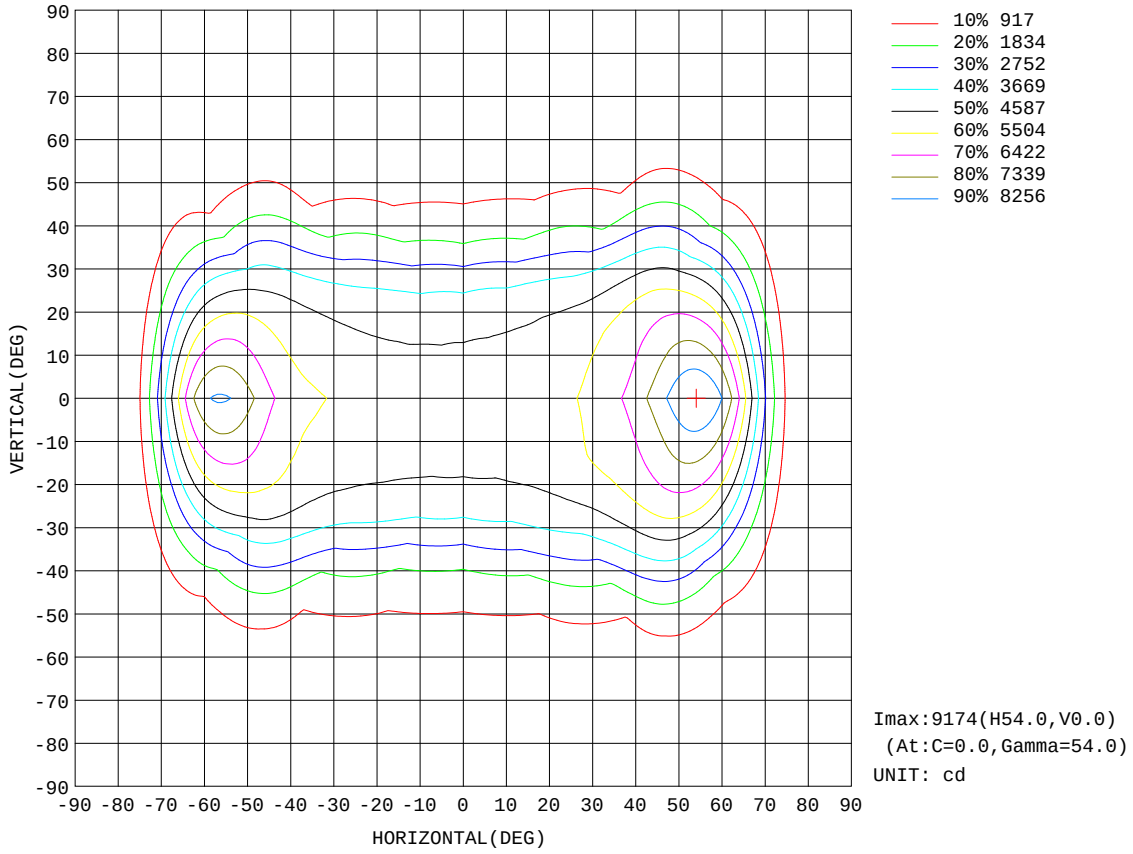
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	506.0	499.7	493.7	497.3	496.0	480.7	472.7	488.9	0- 10	472.9	472.9	3.45,3.45
20	520.6	487.2	446.0	481.9	507.4	450.5	415.2	470.5	10- 20	1366	1840	13.4,13.4
30	580.8	457.9	333.1	440.2	540.3	402.4	283.7	437.5	20- 30	2099	3938	28.7,28.7
40	685	375.7	178.6	341.1	593.0	297.2	131.1	331.2	30- 40	2512	6451	47.1,47.1
50	879	227.3	88.6	186.4	763	139.7	63.64	168.7	40- 50	2624	9075	66.2,66.2
60	822	90.8	56.43	81.0	801	54.43	48.12	69.8	50- 60	2456	11530	84.1,84.1
70	279.8	46.09	48.92	41.93	321.0	33.22	38.73	37.95	60- 70	1508	13038	95.1,95.1
80	22.62	26.69	36.20	24.27	27.19	16.45	23.18	18.51	70- 80	482.8	13521	98.7,98.7
90	0.2855	1.690	4.930	0.806	0.738	0.1015	0.1416	0.0976	80- 90	119.2	13640	99.5,99.5
100	0.2757	0.1368	0.2394	0.1165	0.3995	0.1885	0.1958	0.1660	90-100	2.243	13642	99.5,99.5
110	0.659	0.3084	1.862	0.3119	1.031	0.5081	0.944	0.3959	100-110	4.149	13646	99.6,99.6
120	1.004	0.6125	3.205	0.6143	1.446	1.073	1.472	0.766	110-120	8.71	13655	99.6,99.6
130	1.422	1.041	2.108	1.045	1.470	1.559	2.612	1.164	120-130	11.81	13667	99.7,99.7
140	1.582	1.424	2.274	1.420	1.340	1.760	3.252	1.411	130-140	12.99	13680	99.8,99.8
150	1.558	1.912	1.696	1.821	1.334	1.752	2.368	1.450	140-150	11.10	13691	99.9,99.9
160	1.490	1.695	1.652	1.548	1.385	1.578	1.775	1.631	150-160	7.90	13699	100,100
170	1.542	1.732	1.956	1.498	1.418	1.482	2.074	1.709	160-170	4.590	13703	100,100
180	1.645	1.807	2.039	1.489	1.616	1.690	2.059	1.723	170-180	1.608	13705	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

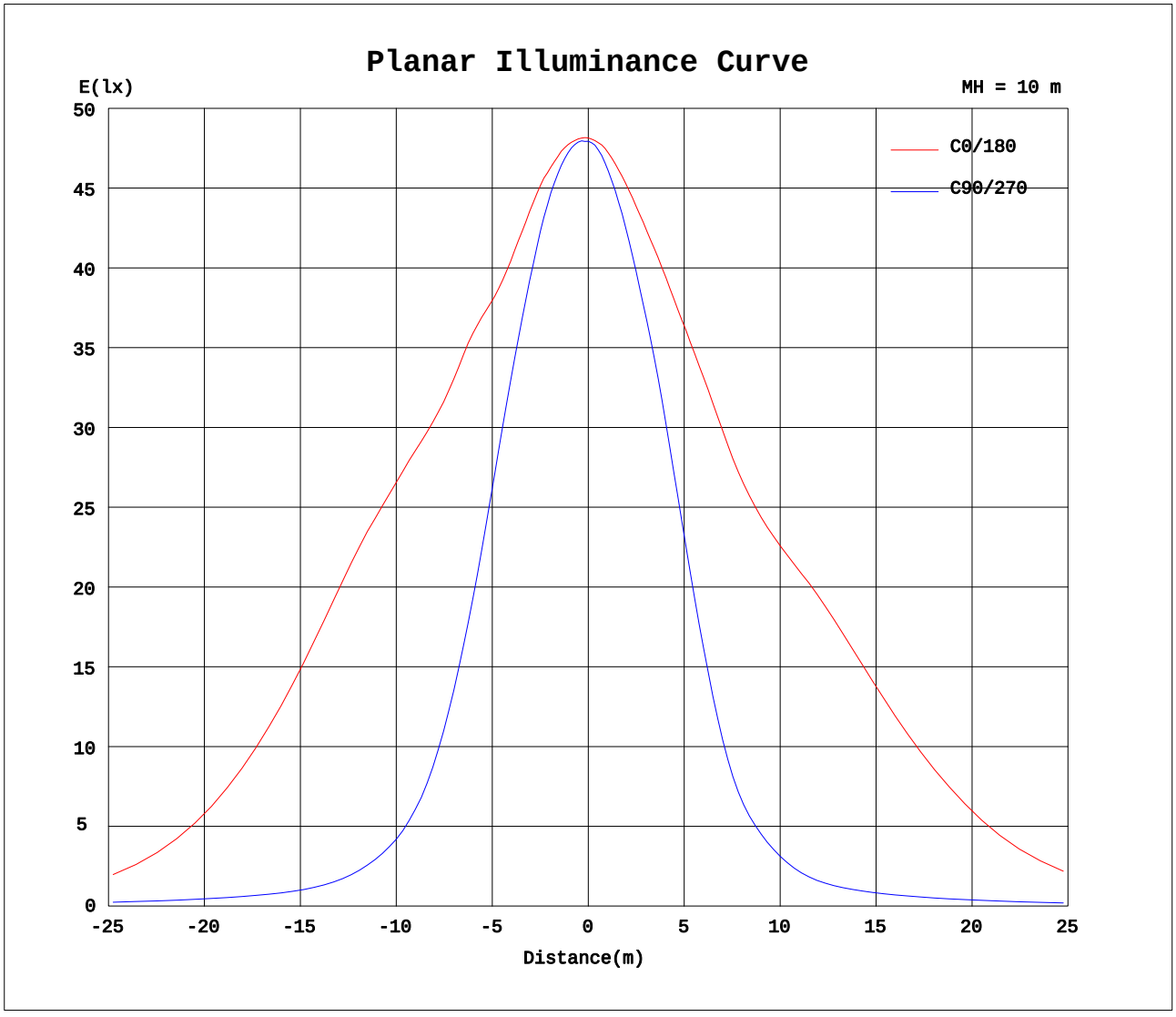
Test:U:0V I:0A P:80.0W PF:0 Freq:0Hz Lamp Flux:13670x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	SUR.:	Shielding Angle:N/A



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



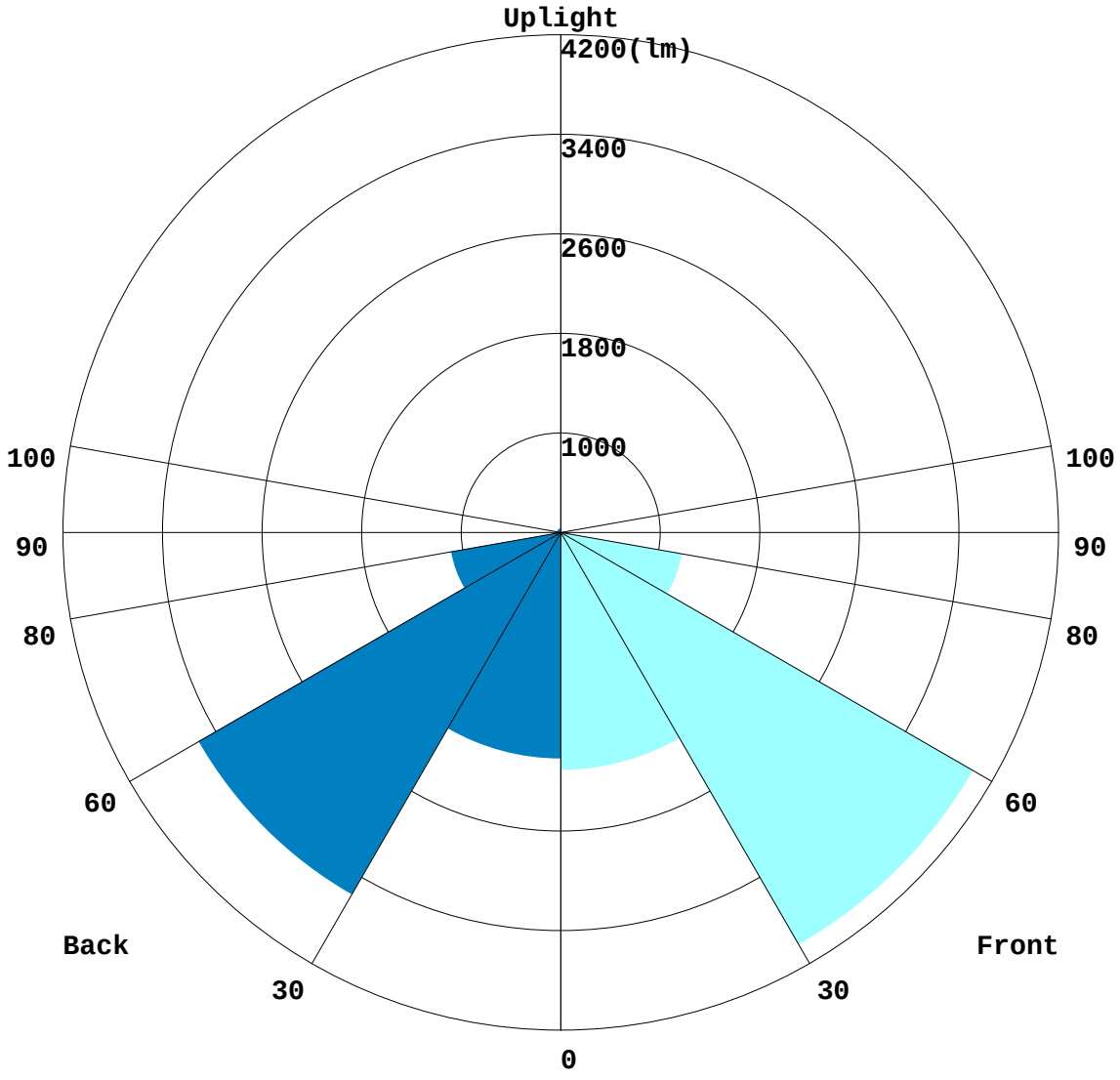
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

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:80.0W PF:0 Freq:0Hz Lamp Flux:13670x1 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:80.0W PF:0 Freq:0Hz Lamp Flux:13670x1 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)	2017.9	14.7
FM - Front-Medium(30-60)	4041.6	29.5
FH - Front-High(60-80)	1045.4	7.6
FVH - Front-Very High(80-90)	72.7	0.5
Total Forward Light	7209.2	52.6
BL - Back-Low(0-30)	1920.5	14.0
BM - Back-Medium(30-60)	3550.3	25.9
BH - Back-High(60-80)	945.1	6.9
BVH - Back-Very High(80-90)	46.5	0.3
Total Back Light	6496.2	47.4
UL - Uplight-Low(90-100)	2.2	0.0
UH - Uplight-High(100-180)	62.9	0.5
Total Up Light	65.1	0.5

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

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6462.4	33.8	6496.2
Street Side	7178.0	31.3	7209.3

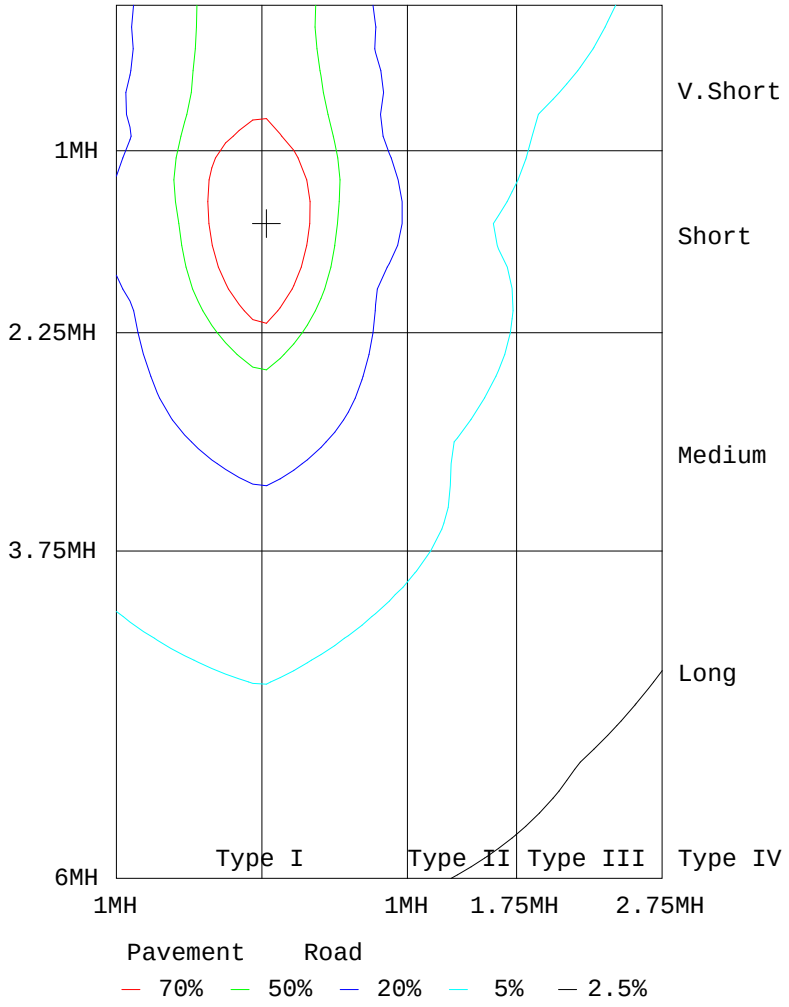
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

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:80.0W PF:0 Freq:0Hz Lamp Flux:13670x1 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:80.0W PF:0 Freq:0Hz Lamp Flux:13670x1 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	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499
5	502	501	501	501	500	500	499	499	497	496	493	491	490	492	496	498
10	506	505	500	496	494	495	497	499	496	492	481	473	473	478	489	501
15	514	508	495	482	476	482	493	501	499	486	465	450	447	460	480	499
20	521	512	488	458	446	457	482	505	508	482	450	422	415	437	471	500
25	539	521	474	424	400	418	466	510	521	482	431	378	359	395	460	509
30	581	543	458	373	333	360	440	516	540	486	402	316	283	333	437	530
35	623	562	427	308	256	288	401	521	562	491	359	239	198	252	394	550
40	685	577	376	231	179	209	341	527	593	493	297	160	131	170	332	573
45	778	593	309	160	124	143	267	530	662	486	218	107	92	116	251	587
50	879	590	228	108	88	101	187	512	763	460	140	71	63.6	80	168	565
55	911	534	150	75	65	72	122	445	831	395	85	52.9	52.4	57.3	110	482
60	822	407	91	57.9	56.4	55.9	81	328	801	273	54.4	45.4	48.1	47.7	70	347
65	581	232	59.7	50.2	52.5	48.0	54.6	191	609	140	41.7	39.5	44.3	41.3	48.5	197
70	280	101	46.1	44.3	48.9	42.1	41.9	88	321	61.0	33.2	32.4	38.7	34.6	38.0	89
75	77	48.9	36.5	35.7	42.3	33.9	33.1	43.1	89	34.3	25.4	23.5	33.9	25.7	29.0	43.9
80	22.6	29.0	26.7	24.4	36.2	23.3	24.2	24.8	27.2	20.0	16.4	15.7	23.2	17.1	18.5	24.9
85	6.9	13.3	13.6	13.3	21.4	12.7	11.6	10.3	6.28	6.8	6.07	8.5	10.6	9.1	6.8	9.0
90	0.29	0.94	1.69	3.64	4.93	2.61	0.81	0.32	0.73	0.12	0.10	0.12	0.14	0.11	0.10	0.13
95	0.20	0.14	0.12	0.12	0.13	0.12	0.11	0.14	0.19	0.15	0.12	0.14	0.14	0.12	0.11	0.14
100	0.27	0.13	0.14	0.14	0.24	0.12	0.12	0.15	0.40	0.29	0.19	0.20	0.20	0.18	0.17	0.25
105	0.47	0.23	0.19	0.20	1.19	0.20	0.19	0.22	0.71	0.55	0.31	0.34	0.42	0.29	0.27	0.44
110	0.66	0.36	0.31	0.39	1.86	0.38	0.31	0.38	1.03	0.82	0.51	0.56	0.94	0.46	0.40	0.67
115	0.81	0.51	0.46	0.60	3.15	0.61	0.46	0.55	1.31	1.10	0.77	0.85	1.11	0.66	0.57	0.88
120	1.00	0.69	0.61	0.77	3.20	0.82	0.62	0.72	1.45	1.33	1.07	1.23	1.47	0.92	0.77	1.06
125	1.25	1.01	0.81	1.16	2.48	1.26	0.81	1.06	1.47	1.48	1.24	1.46	2.13	1.19	0.89	1.17
130	1.42	1.51	1.04	1.55	2.11	1.57	1.05	1.50	1.47	1.66	1.56	2.06	2.61	1.44	1.16	1.39
135	1.46	1.70	1.24	1.50	1.46	1.48	1.26	1.66	1.40	1.68	1.75	2.44	2.74	1.70	1.35	1.47
140	1.58	1.79	1.42	1.66	2.28	1.59	1.42	1.79	1.34	1.69	1.76	2.48	3.25	1.81	1.41	1.48
145	1.57	1.78	1.78	1.67	1.77	1.52	1.71	1.69	1.30	1.44	1.77	2.55	3.18	1.91	1.45	1.40
150	1.56	1.74	1.91	1.66	1.70	1.45	1.82	1.63	1.33	1.42	1.76	2.26	2.37	1.92	1.45	1.39
155	1.53	1.68	1.70	1.81	2.11	1.79	1.62	1.56	1.38	1.41	1.72	2.25	2.52	2.24	1.38	1.40
160	1.49	1.49	1.70	1.63	1.65	1.53	1.55	1.38	1.38	1.40	1.58	2.09	1.77	1.74	1.63	1.35
165	1.51	1.50	1.67	1.85	1.89	1.72	1.53	1.36	1.40	1.40	1.44	1.94	2.03	1.90	1.72	1.32
170	1.54	1.64	1.73	1.90	1.96	1.72	1.50	1.40	1.42	1.41	1.48	1.76	2.07	1.80	1.71	1.36
175	1.65	1.72	1.89	2.00	1.90	1.64	1.53	1.50	1.56	1.55	1.57	1.76	2.06	1.85	1.73	1.41
180	1.64	1.70	1.81	2.06	2.04	1.72	1.49	1.44	1.62	1.64	1.69	1.83	2.06	2.03	1.72	1.48

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: