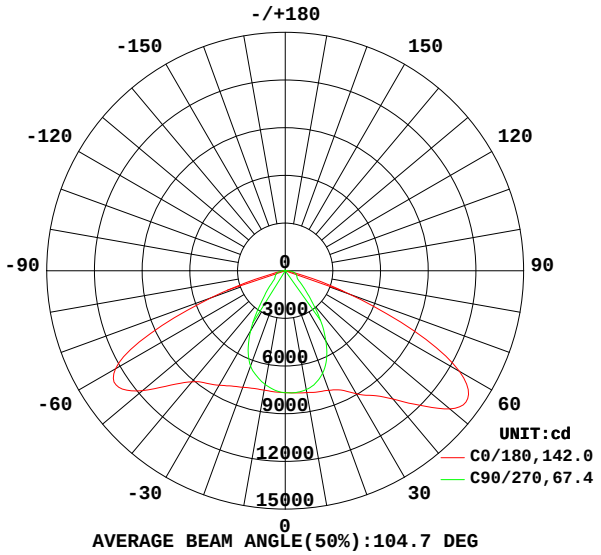
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:0V I:0A P:100.0W PF:0 Freq:0Hz Lamp Flux:17070x1 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

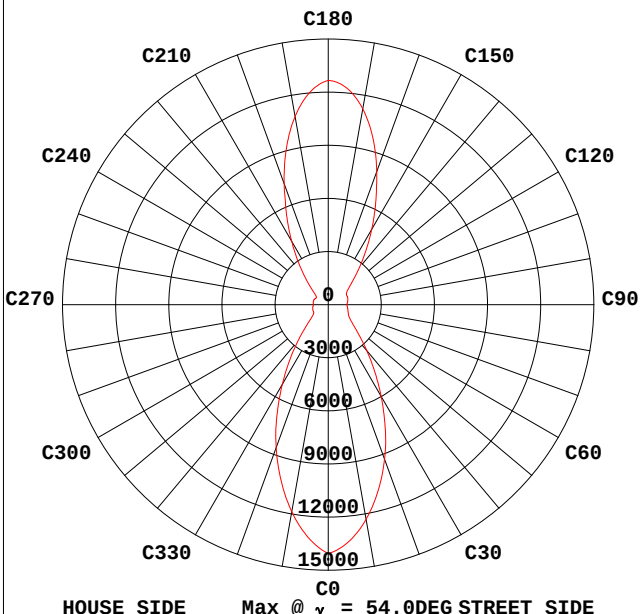
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 170.7 lm/W	
MODEL	JKC-ZC-100W	Imax(cd)	11385	η street_up(%)	0.2
NOMINAL POWER(W)	100	LOR(%)	100.0	η street_down(%)	52.4
RATED VOLTAGE(V)	36	TOTAL FLUX(lm)	17070	η house_up(%)	0.2
NOMINAL FLUX(lm)	17070	MAXIMUM @(C,γ)	0,54.0	η house_down(%)	47.2
LAMPS INSIDE	1	η up(%)	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



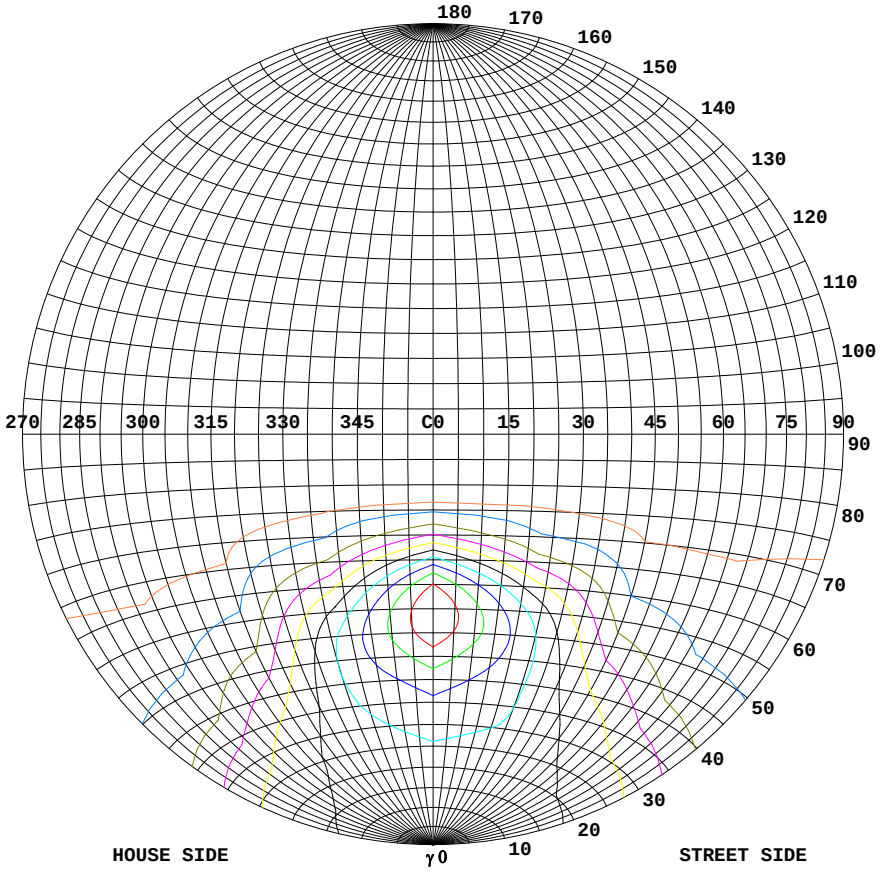
HOUSE SIDE Max @ γ = 54.0DEG STREET SIDE

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:100.0W PF:0 Freq:0Hz Lamp Flux:17070x1 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:

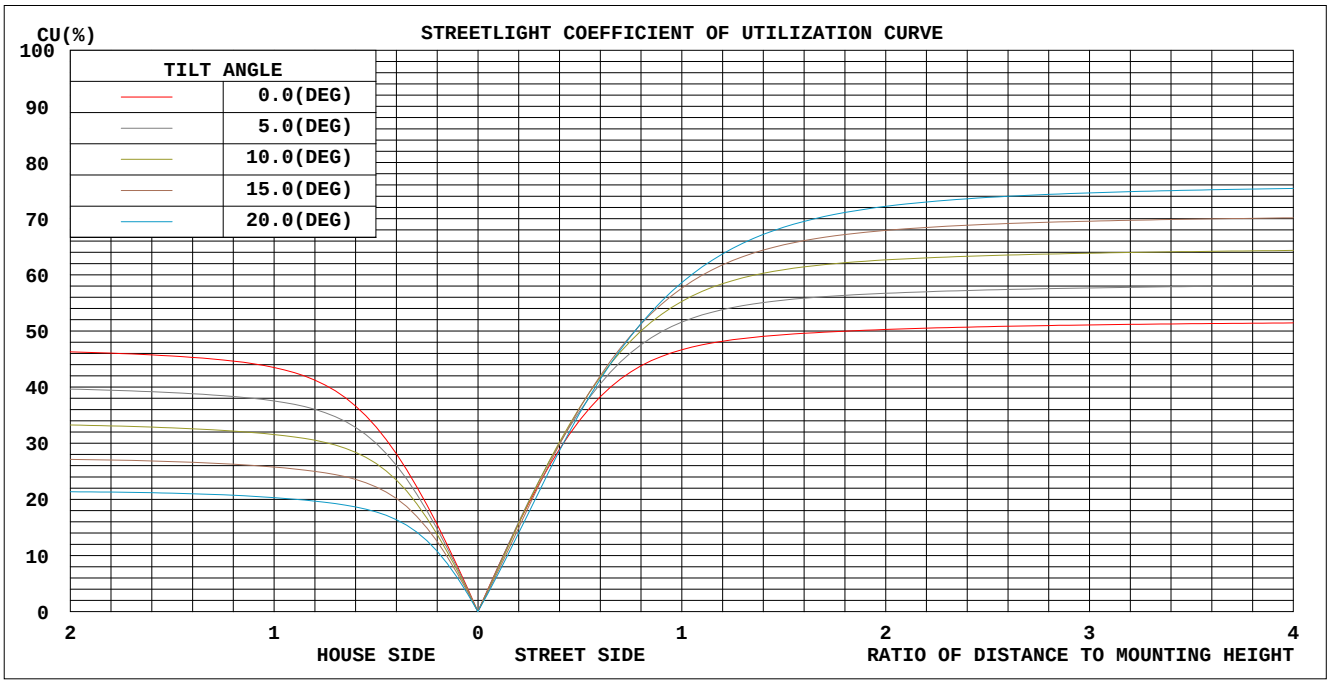
IES:Type I - Short
CIE:Narrow - Short
IES:Cut-off
CIE:Full cut-off
Max.At80:21.39cd/klm
Max.At90:2.721cd/klm
Max.80-90:21.39cd/klm

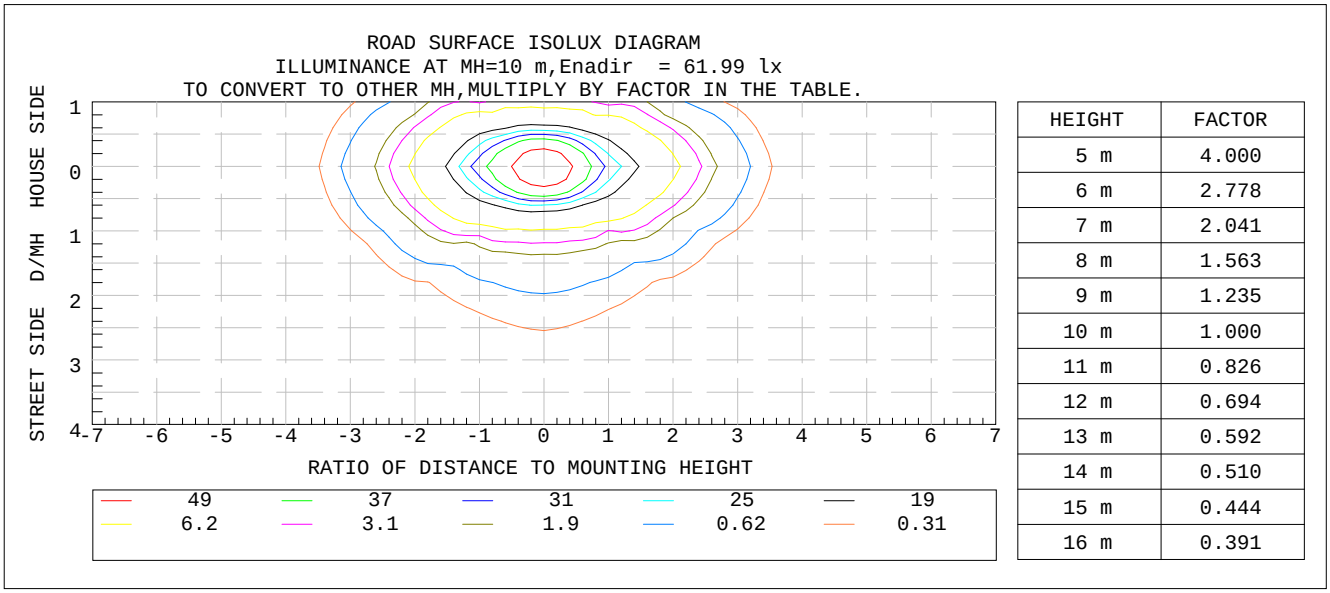
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	11385
90%	10246
80%	9108
70%	7969
60%	6831
50%	5692
40%	4554
30%	3415
20%	2277
10%	1138
5%	569

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:100.0W PF:0 Freq:0Hz Lamp Flux:17070x1 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

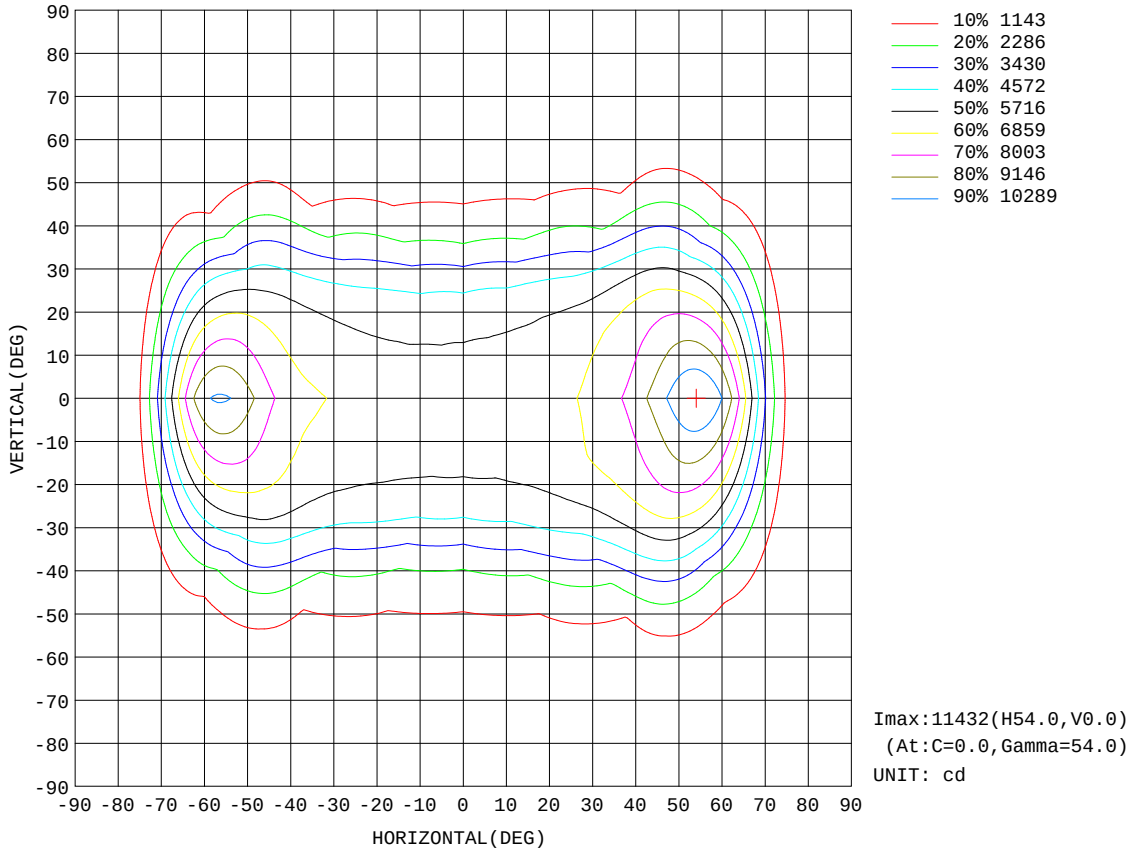
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	630.6	622.7	615.2	619.7	618.1	599.1	589.1	609.3	0- 10	589.4	589.4	3.45,3.45
20	648.7	607.2	555.8	600.5	632.3	561.3	517.3	586.4	10- 20	1703	2292	13.4,13.4
30	723.7	570.6	415.1	548.5	673.4	501.4	353.5	545.2	20- 30	2615	4908	28.7,28.7
40	854	468.2	222.6	425.1	739.0	370.4	163.4	412.8	30- 40	3131	8038	47.1,47.1
50	1096	283.3	110.4	232.3	951	174.1	79.31	210.2	40- 50	3270	11308	66.2,66.2
60	1025	113.2	70.32	100.9	999	67.83	59.96	87.0	50- 60	3060	14369	84.1,84.1
70	348.7	57.43	60.96	52.25	400.0	41.40	48.27	47.29	60- 70	1879	16247	95.1,95.1
80	28.19	33.26	45.11	30.25	33.88	20.50	28.88	23.07	70- 80	601.6	16849	98.7,98.7
90	0.3558	2.106	6.143	1.004	0.919	0.1264	0.1764	0.1217	80- 90	148.6	16998	99.5,99.5
100	0.3435	0.1705	0.2983	0.1452	0.4978	0.2349	0.2441	0.2069	90-100	2.795	17000	99.5,99.5
110	0.821	0.3843	2.321	0.3886	1.285	0.6332	1.177	0.4934	100-110	5.170	17005	99.6,99.6
120	1.251	0.7633	3.993	0.7655	1.802	1.337	1.835	0.955	110-120	10.85	17016	99.6,99.6
130	1.771	1.297	2.627	1.302	1.832	1.943	3.255	1.450	120-130	14.72	17031	99.7,99.7
140	1.972	1.774	2.833	1.770	1.669	2.193	4.052	1.758	130-140	16.18	17047	99.8,99.8
150	1.942	2.382	2.113	2.269	1.663	2.184	2.951	1.807	140-150	13.83	17061	99.9,99.9
160	1.857	2.112	2.058	1.929	1.725	1.966	2.212	2.032	150-160	9.85	17071	100,100
170	1.921	2.158	2.437	1.866	1.767	1.847	2.584	2.129	160-170	5.719	17076	100,100
180	2.050	2.252	2.541	1.856	2.014	2.106	2.565	2.147	170-180	2.004	17079	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

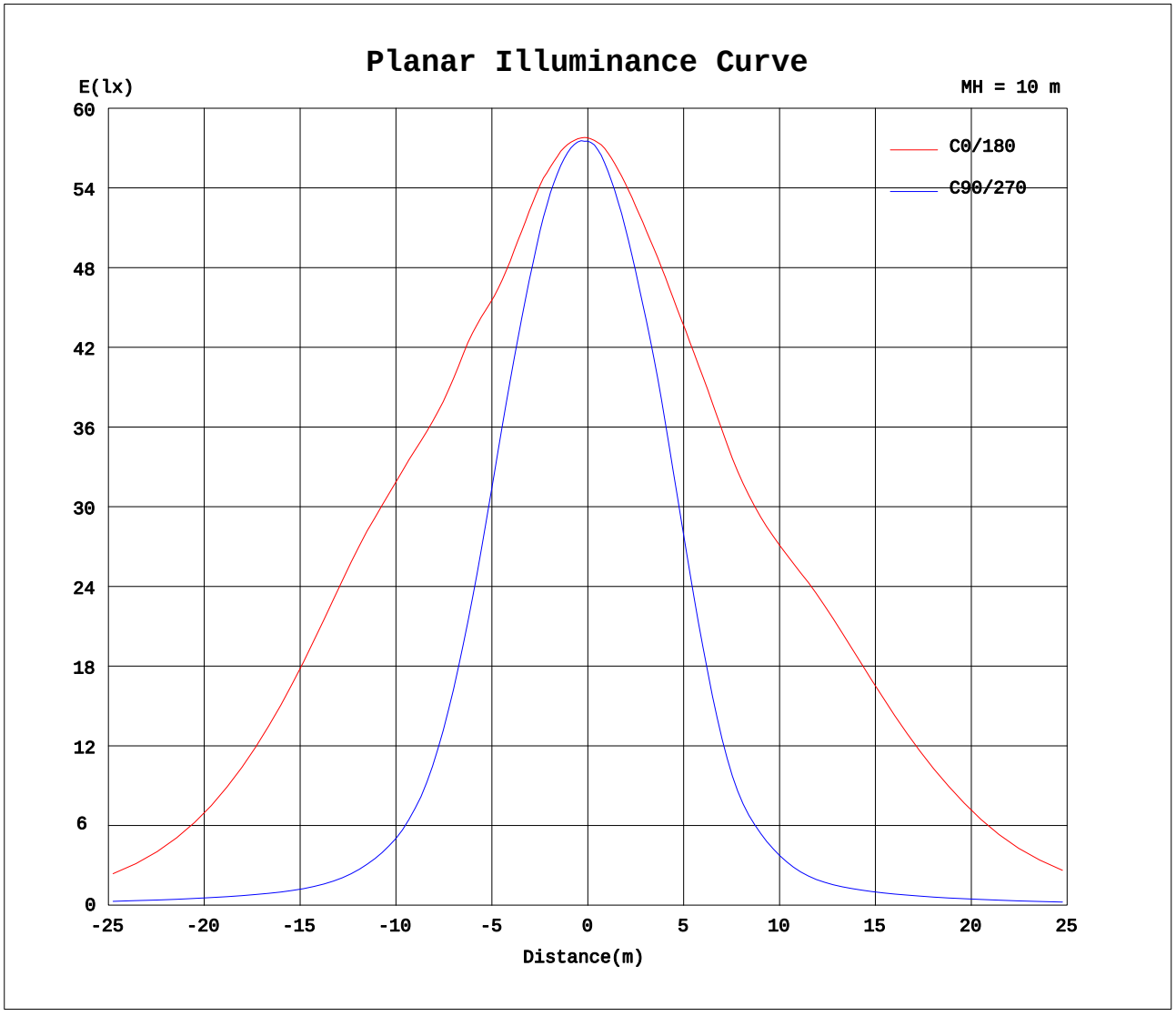
Test:U:0V I:0A P:100.0W PF:0 Freq:0Hz Lamp Flux:17070x1 lm		
NAME: Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Beatles Energy Technology Co.,Ltd.	SUR.:	Shielding Angle:N/A



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



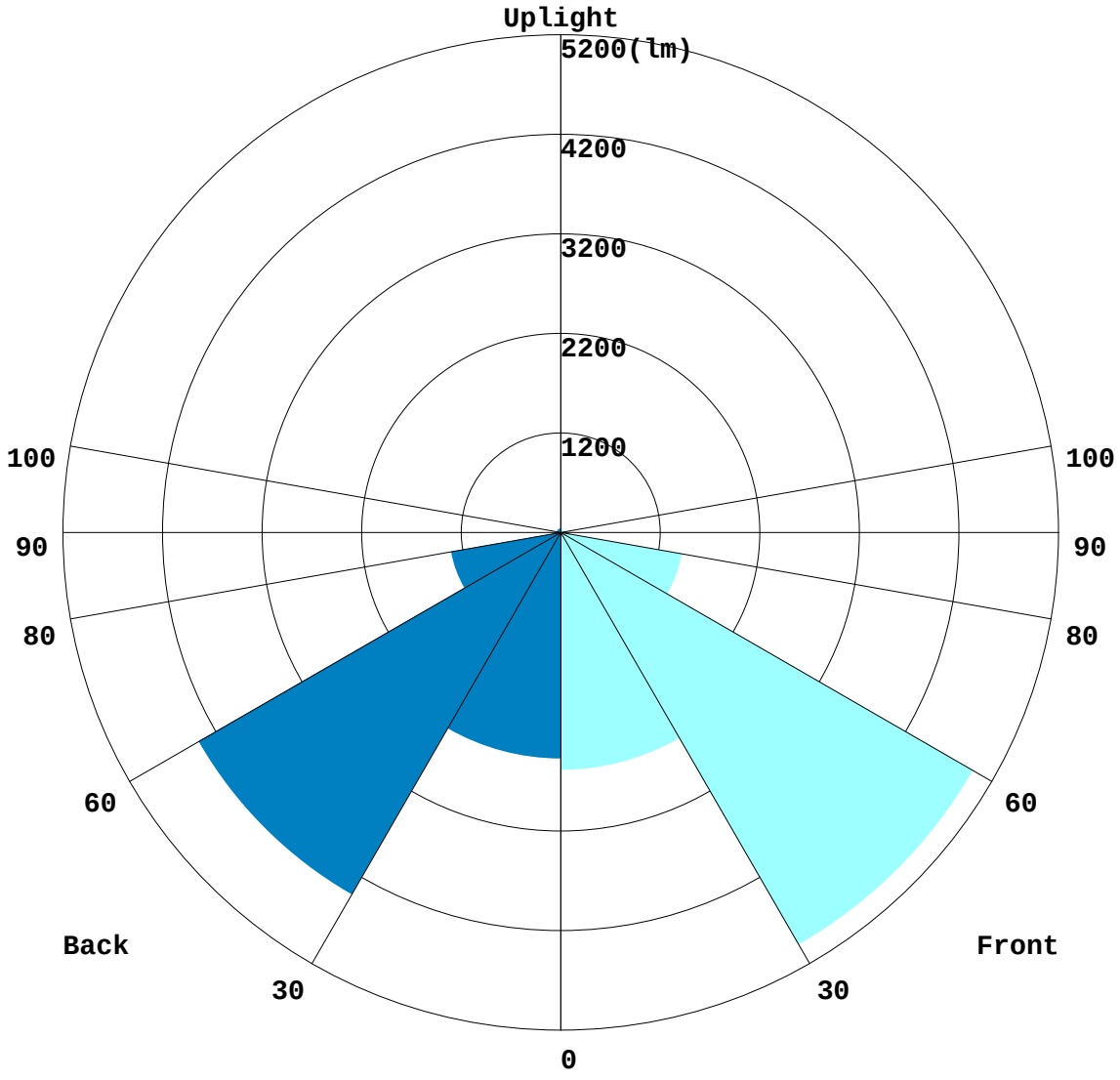
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

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:100.0W PF:0 Freq:0Hz Lamp Flux:17070x1 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:100.0W PF:0 Freq:0Hz Lamp Flux:17070x1 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)	2514.6	14.7
FM - Front-Medium(30-60)	5036.5	29.5
FH - Front-High(60-80)	1302.7	7.6
FVH - Front-Very High(80-90)	90.7	0.5
Total Forward Light	8983.7	52.6
BL - Back-Low(0-30)	2393.2	14.0
BM - Back-Medium(30-60)	4424.2	25.9
BH - Back-High(60-80)	1177.7	6.9
BVH - Back-Very High(80-90)	57.9	0.3
Total Back Light	8095.2	47.4
UL - Uplight-Low(90-100)	2.8	0.0
UH - Uplight-High(100-180)	78.3	0.5
Total Up Light	81.1	0.5

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

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	8053.1	42.1	8095.2
Street Side	8944.8	39	8983.8

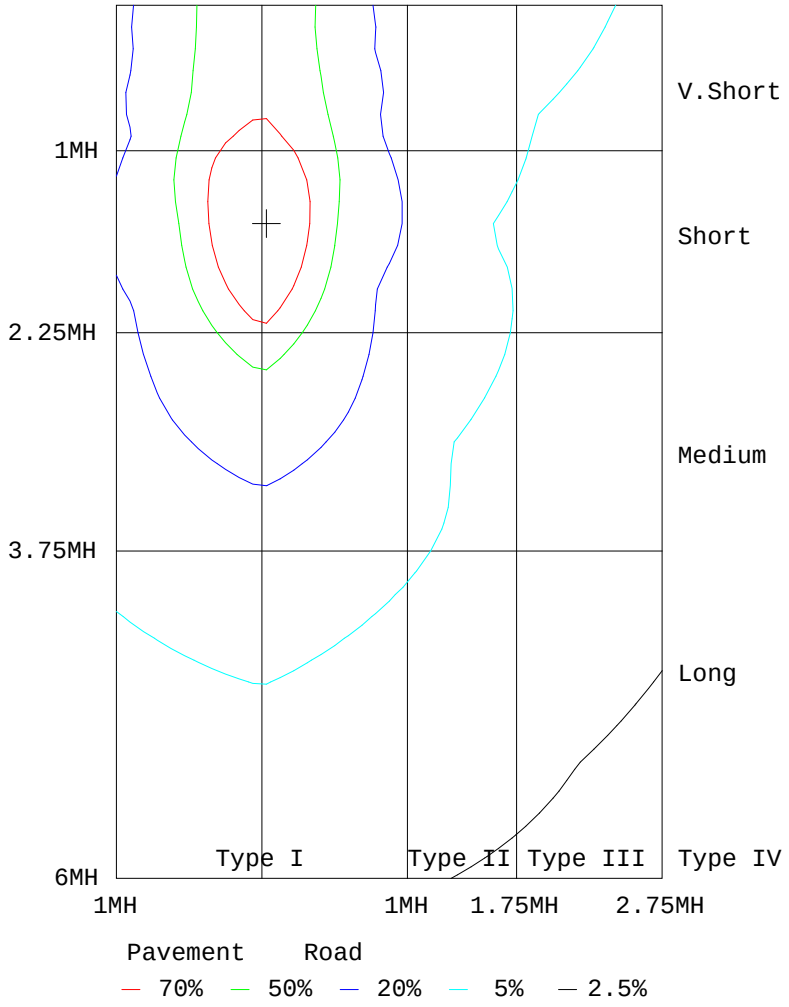
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-12-02

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:100.0W PF:0 Freq:0Hz Lamp Flux:17070x1 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:100.0W PF:0 Freq:0Hz Lamp Flux:17070x1 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 (DEG) \ 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	621	621	621	621	621	621	621	621	621	621	621	621	621	621	621	621			
5	625	625	624	624	623	623	621	621	620	618	615	612	611	613	618	620			
10	630	629	623	618	616	617	620	622	618	613	599	590	589	596	609	624			
15	640	633	617	601	594	600	615	625	621	605	580	561	557	573	599	622			
20	649	638	608	571	556	569	600	629	633	601	561	526	518	544	586	623			
25	671	650	590	529	498	521	581	635	649	601	537	471	448	492	573	634			
30	724	677	571	465	415	449	548	643	673	606	501	394	353	415	545	660			
35	776	701	532	384	319	359	500	649	700	612	447	297	246	314	491	685			
40	854	719	468	288	223	261	425	656	739	614	370	199	164	211	413	714			
45	970	739	386	199	154	178	333	661	825	605	272	133	114	145	313	731			
50	1096	735	284	134	110	126	232	638	951	573	174	88	79.3	100	210	704			
55	1136	666	186	93	81	90	151	554	1035	492	106	65.9	65.3	71.4	137	601			
60	1025	507	113	72.1	70.3	69.7	101	408	999	340	67.8	56.5	59.9	59.5	87	433			
65	724	289	74.4	62.5	65.4	59.9	68.0	238	759	175	52.0	49.2	55.2	51.5	60.4	245			
70	348	126	57.4	55.2	61.0	52.4	52.2	109	400	76.0	41.4	40.3	48.3	43.1	47.3	111			
75	96	60.9	45.5	44.5	52.7	42.2	41.2	53.7	111	42.7	31.6	29.3	42.2	32.1	36.1	54.7			
80	28.2	36.1	33.3	30.4	45.1	29.0	30.2	30.9	33.9	24.9	20.5	19.6	28.9	21.3	23.1	31.0			
85	8.6	16.6	16.9	16.6	26.6	15.9	14.5	12.8	7.82	8.4	7.57	10.6	13.2	11.3	8.4	11.3			
90	0.36	1.17	2.11	4.54	6.14	3.25	1.00	0.40	0.92	0.15	0.13	0.15	0.18	0.14	0.12	0.16			
95	0.24	0.18	0.15	0.15	0.16	0.15	0.14	0.17	0.23	0.19	0.15	0.17	0.18	0.15	0.14	0.17			
100	0.34	0.16	0.17	0.18	0.30	0.15	0.15	0.19	0.49	0.36	0.23	0.25	0.24	0.22	0.21	0.31			
105	0.58	0.28	0.23	0.25	1.48	0.25	0.23	0.28	0.88	0.68	0.39	0.42	0.52	0.36	0.33	0.55			
110	0.82	0.45	0.38	0.49	2.32	0.48	0.39	0.47	1.29	1.02	0.63	0.70	1.17	0.58	0.49	0.83			
115	1.01	0.64	0.57	0.75	3.93	0.76	0.58	0.68	1.63	1.37	0.96	1.05	1.39	0.82	0.70	1.09			
120	1.25	0.86	0.76	0.96	3.99	1.02	0.77	0.89	1.81	1.65	1.34	1.53	1.83	1.15	0.96	1.32			
125	1.56	1.26	1.01	1.44	3.09	1.57	1.01	1.32	1.83	1.85	1.54	1.82	2.66	1.48	1.11	1.46			
130	1.77	1.89	1.30	1.93	2.62	1.95	1.30	1.87	1.83	2.07	1.94	2.57	3.26	1.80	1.45	1.73			
135	1.82	2.11	1.55	1.87	1.81	1.84	1.57	2.07	1.75	2.09	2.18	3.04	3.42	2.12	1.68	1.83			
140	1.97	2.24	1.77	2.07	2.84	1.98	1.77	2.24	1.67	2.11	2.20	3.09	4.05	2.25	1.76	1.85			
145	1.96	2.22	2.22	2.08	2.20	1.90	2.13	2.11	1.62	1.79	2.21	3.18	3.96	2.38	1.81	1.74			
150	1.94	2.17	2.38	2.07	2.11	1.81	2.27	2.03	1.66	1.77	2.19	2.82	2.95	2.39	1.81	1.73			
155	1.91	2.09	2.11	2.25	2.63	2.24	2.02	1.94	1.72	1.76	2.14	2.80	3.13	2.79	1.73	1.74			
160	1.85	1.85	2.11	2.03	2.06	1.90	1.93	1.72	1.73	1.75	1.97	2.61	2.21	2.17	2.03	1.68			
165	1.89	1.86	2.08	2.31	2.35	2.14	1.91	1.69	1.74	1.74	1.79	2.41	2.54	2.37	2.15	1.64			
170	1.92	2.05	2.15	2.37	2.44	2.15	1.86	1.74	1.77	1.76	1.85	2.20	2.58	2.24	2.13	1.69			
175	2.06	2.15	2.35	2.49	2.37	2.04	1.91	1.86	1.94	1.93	1.96	2.19	2.57	2.30	2.15	1.76			
180	2.05	2.12	2.25	2.57	2.54	2.15	1.85	1.79	2.02	2.04	2.11	2.28	2.57	2.54	2.15	1.84			

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: