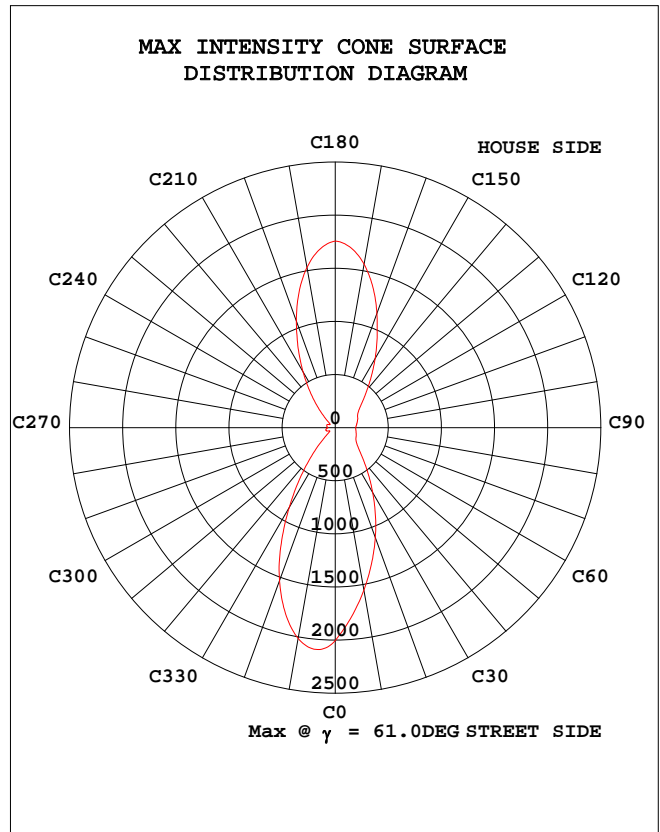
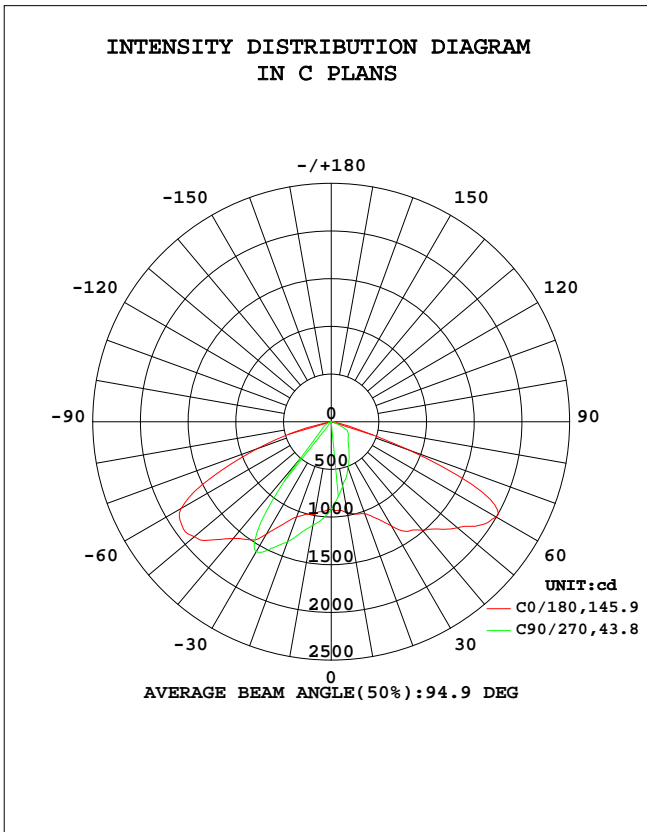


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:26.61V I:0.9450A P:25.15W PF:1.000 Freq:0Hz Lamp Flux:3465.74x1 lm		
NAME: Integrated Solar Led Street Light	TYPE:	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: SHENZHEN LEADRAY OPTOELECTRONIC CO.,LTD.	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.82 lm/W			
MODEL	LRC25W	I _{max} (cd)	2003	η street_up(%)	0.1
NOMINAL POWER(W)	25	LOR(%)	100.0	η street_down(%)	53.2
RATED VOLTAGE(V)	26	TOTAL FLUX(lm)	3466	η house_up(%)	0.1
NOMINAL FLUX(lm)	3465.74	MAXIMUM @(C,γ)	0,61.0	η house_down(%)	46.7
LAMPS INSIDE	1	η up(%)	0.1	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	26	η down(%)	99.9	SLI	17.127

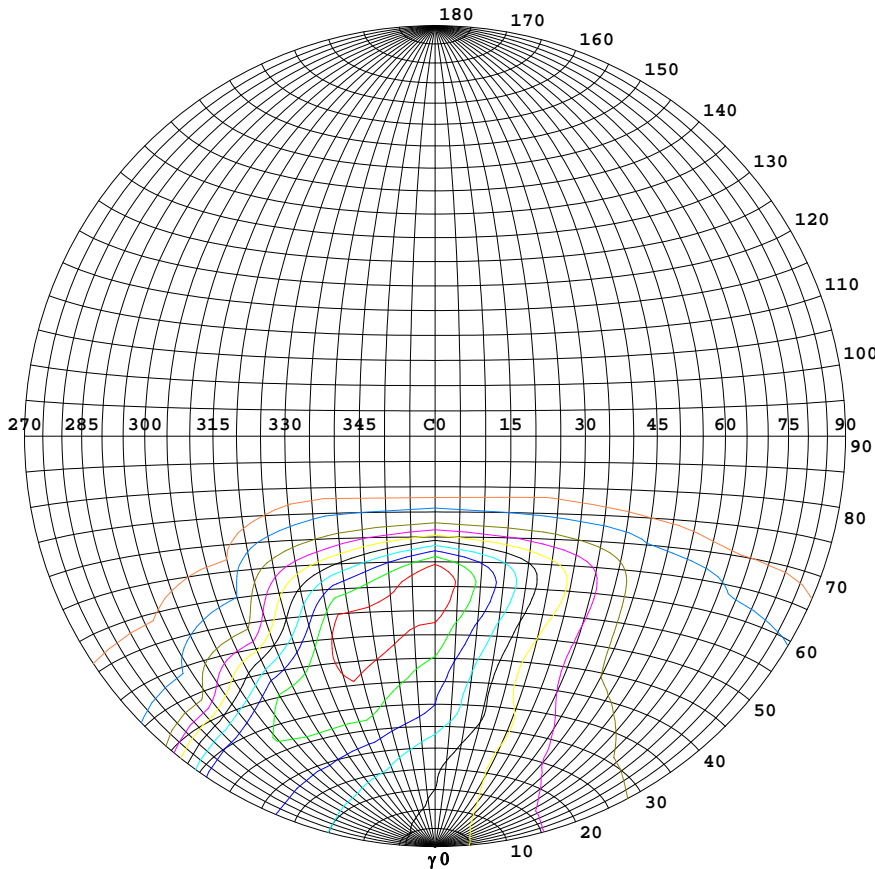


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2016-11-22

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=1.3361]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:26.61V I:0.9450A P:25.15W PF:1.000 Freq:0Hz Lamp Flux:3465.74x1 lm		
NAME: Integrated Solar Led Street Light	TYPE:	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: SHENZHEN LEADRAY OPTOELECTRONIC CO.,LTD.	SUR.:	Shielding Angle:N/A



Classification:

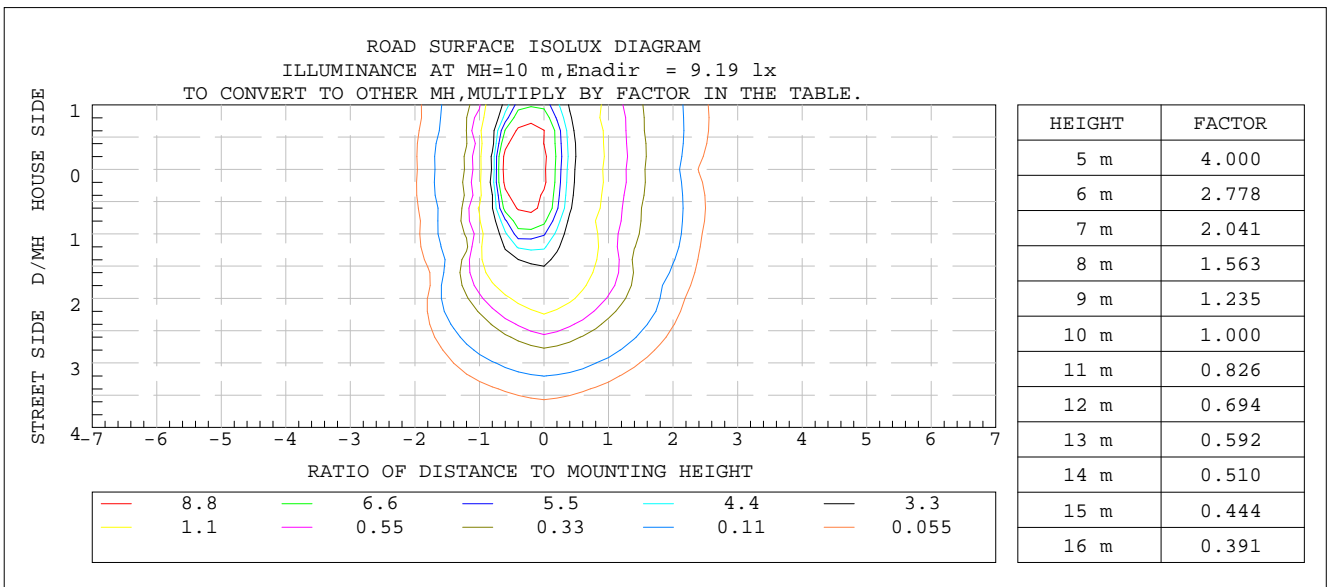
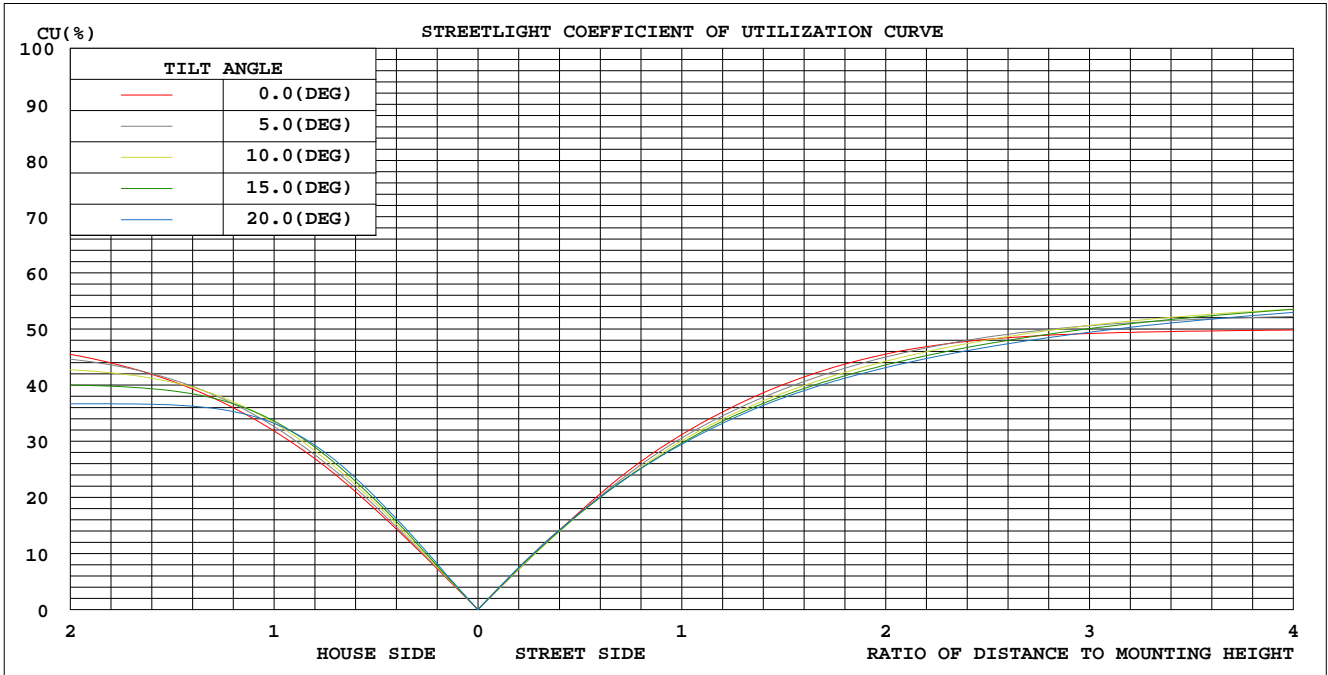
IES:Type III - Short
 CIE:Broad - Intermediate
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:17.25cd/klm
 Max.At90:0.9638cd/klm
 Max.80-90:17.25cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2003
90%	1803
80%	1603
70%	1402
60%	1202
50%	1002
40%	801
30%	601
20%	401
10%	200
5%	100

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2016-11-22

gamma Range: 0 - 180DEG
 gamma Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.3361]
 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: 2016-11-22

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=1.3361]
 Remarks:

ZONAL FLUX DIAGRAM

Test:U:26.61V I:0.9450A P:25.15W PF:1.000 Freq:0Hz Lamp Flux:3465.74x1 lm		
NAME: Integrated Solar Led Street Light	TYPE:	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: SHENZHEN LEADRAY OPTOELECTRONIC CO.,LTD.	SUR.:	Shielding Angle:N/A

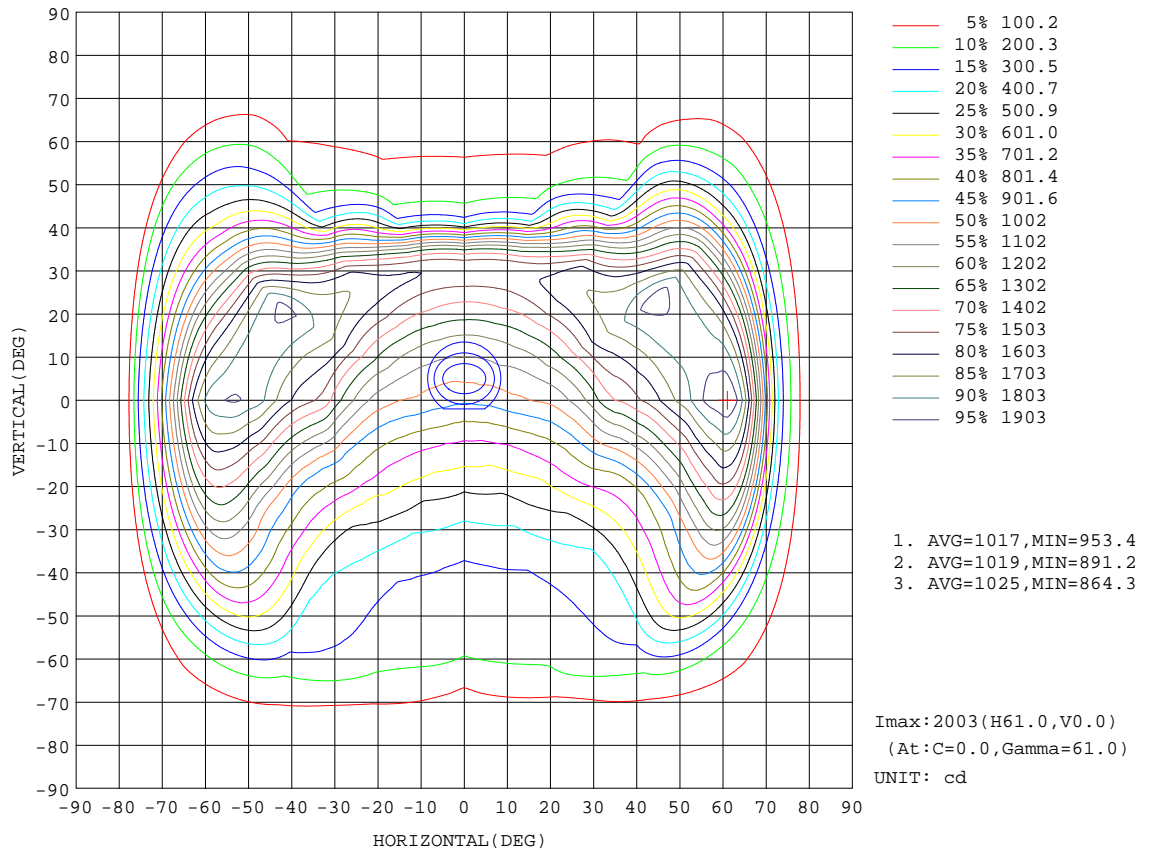
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum,lamp
10	973.8	759.1	687.5	782.7	983.1	1071	1102	1077	0- 10	88.04	88.04	2.54,2.54
20	1027	646.8	512.6	682.8	1063	1301	1339	1275	10- 20	269.3	357.3	10.3,10.3
30	1260	555.7	374.4	601.8	1359	1605	1573	1577	20- 30	484.0	841.3	24.3,24.3
40	1485	441.0	280.3	484.1	1600	1537	517.8	1625	30- 40	679.9	1521	43.9,43.9
50	1731	370.5	234.9	415.4	1875	500.6	136.0	747.8	40- 50	668.7	2190	63.2,63.2
60	1997	339.9	197.5	381.3	1817	160.8	76.71	202.3	50- 60	640.7	2831	81.7,81.7
70	866.1	207.0	68.91	222.6	824.0	84.39	28.17	76.38	60- 70	485.9	3316	95.7,95.7
80	41.81	48.02	38.63	57.69	27.61	20.30	0.1355	12.16	70- 80	136.6	3453	99.6,99.6
90	0.0716	0.0689	0.0015	0.0026	0.8227	0.0682	3.340	0.2039	80- 90	7.833	3461	99.9,99.9
100	0	0	0	0	1.791	0.2046	0.0677	0.2733	90-100	0.2465	3461	99.9,99.9
110	0.5476	0.9542	0	0.1359	2.605	0.2046	0.0677	0.3398	100-110	0.4015	3462	99.9,99.9
120	0.7541	2.316	1.150	1.019	2.259	0.2046	0.0677	0.3398	110-120	0.6884	3462	99.9,99.9
130	0.7541	3.067	1.969	1.969	0.8227	0.2727	0.0677	0.3398	120-130	0.9730	3463	99.9,99.9
140	0.7541	3.137	0.7450	2.174	0.7541	0.3409	0.0677	0.4095	130-140	0.8664	3464	100,100
150	0.7541	3.000	1.084	1.971	0.6170	0.4781	0.2709	0.6116	140-150	0.7195	3465	100,100
160	0.6856	2.318	1.084	1.904	0.6170	0.7500	0.5421	0.6116	150-160	0.5470	3465	100,100
170	0.6170	1.842	1.151	1.564	0.6170	0.8182	0.7432	0.8834	160-170	0.3154	3466	100,100
180	0.6170	1.296	1.016	1.428	0.6170	0.8864	1.356	1.223	170-180	0.1031	3466	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2016-11-22

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=1.3361]
 Remarks:

ISOCANDELA DIAGRAM

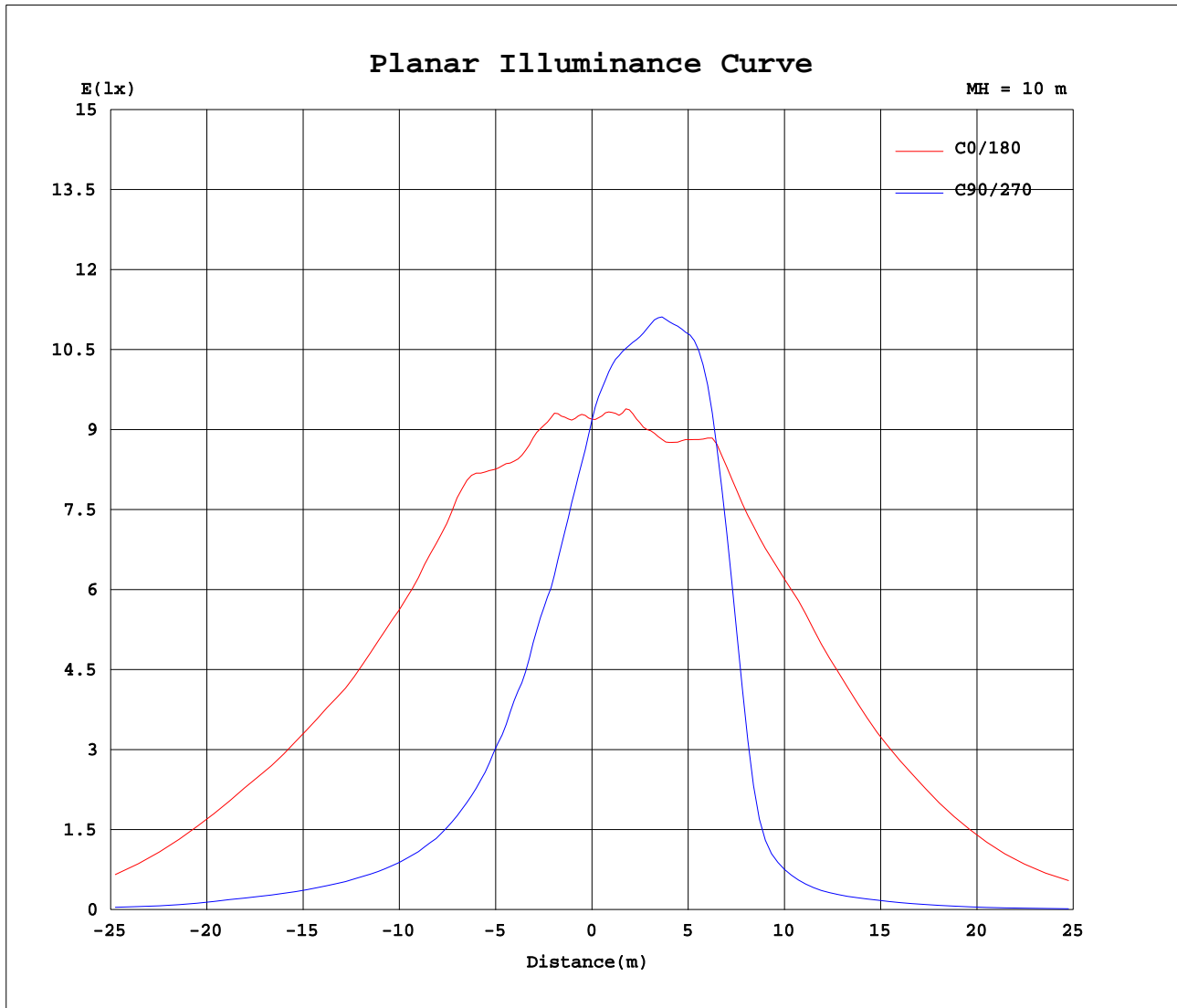
Test:U:26.61V I:0.9450A P:25.15W PF:1.000 Freq:0Hz Lamp Flux:3465.74x1 lm		
NAME: Integrated Solar Led Street Light	TYPE:	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: SHENZHEN LEADRAY OPTOELECTRONIC CO.,LTD.	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2016-11-22

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=1.3361]
 Remarks:

Planar Illuminance Curve



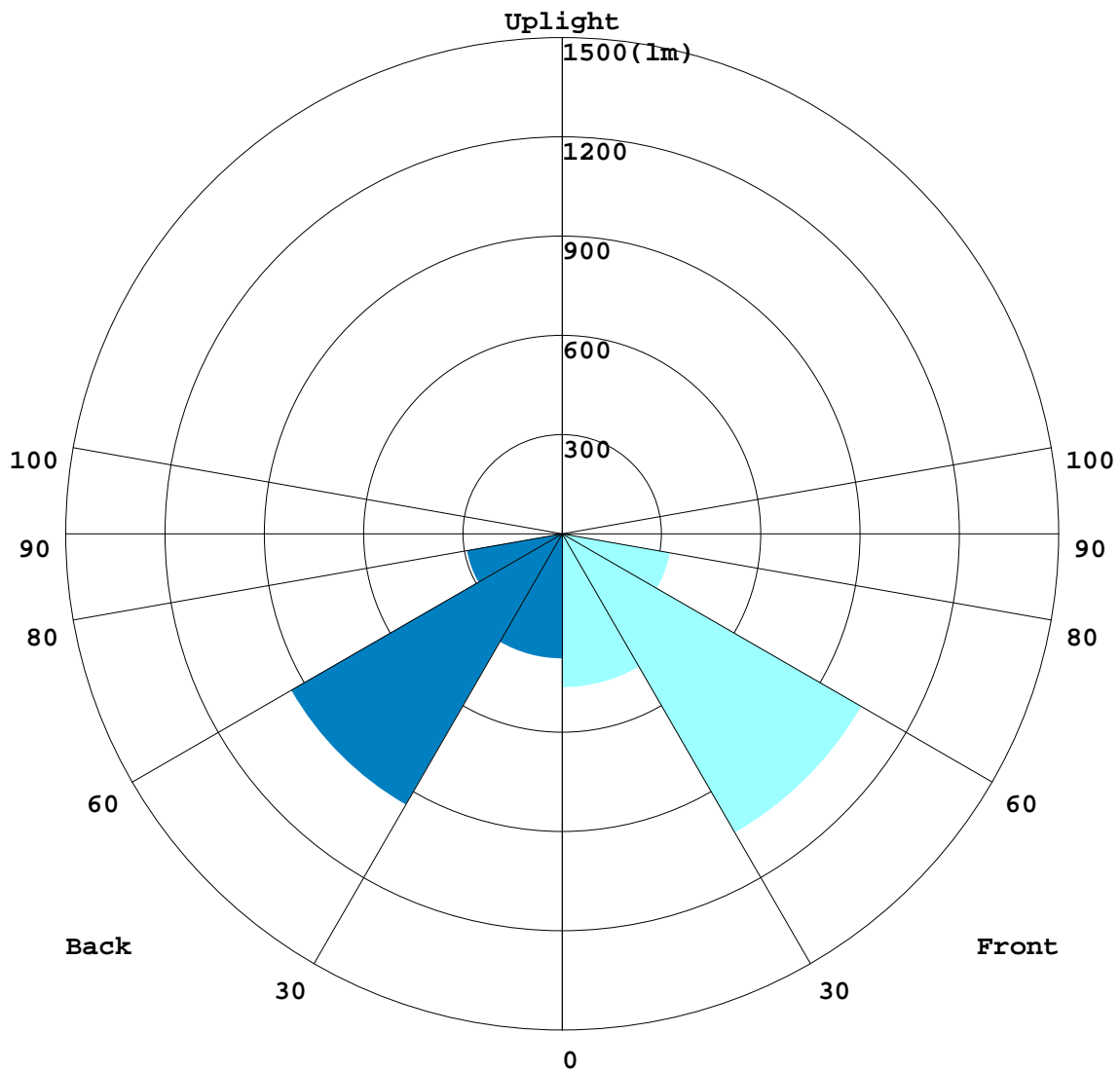
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2016-11-22

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=1.3361]
Remarks:

LCS REPORT

Test:U:26.61V I:0.9450A P:25.15W PF:1.000 Freq:0Hz Lamp Flux:3465.74x1 lm		
NAME: Integrated Solar Led Street Light	TYPE:	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: SHENZHEN LEADRAY OPTOELECTRONIC 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:Seth
 Test Date:2016-11-22

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=1.3361]
 Remarks:

BUG REPORT

Test:U:26.61V I:0.9450A P:25.15W PF:1.000 Freq:0Hz Lamp Flux:3465.74x1 lm		
NAME: Integrated Solar Led Street Light	TYPE:	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: SHENZHEN LEADRAY OPTOELECTRONIC CO.,LTD.	SUR.:	Shielding Angle:N/A

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	464.27	13.4
FM - Front-Medium(30-60)	1043.4	30.1
FH - Front-High(60-80)	330.48	9.5
FVH - Front-Very High(80-90)	4.5564	0.1
Total Forward Light	1845.5	53.3

BL - Back-Low(0-30)	377.06	10.9
BM - Back-Medium(30-60)	945.81	27.3
BH - Back-High(60-80)	292	8.4
BVH - Back-Very High(80-90)	3.2767	0.1
Total Back Light	1620.2	46.7

UL - Uplight-Low(90-100)	0.24647	0.0
UH - Uplight-High(100-180)	4.6142	0.1
Total Up Light	4.8607	0.1

BUG(Back,Up,Glare) Rating	B1-U1-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1618.2	2.0796	1620.2
Street Side	1842.7	2.781	1845.5

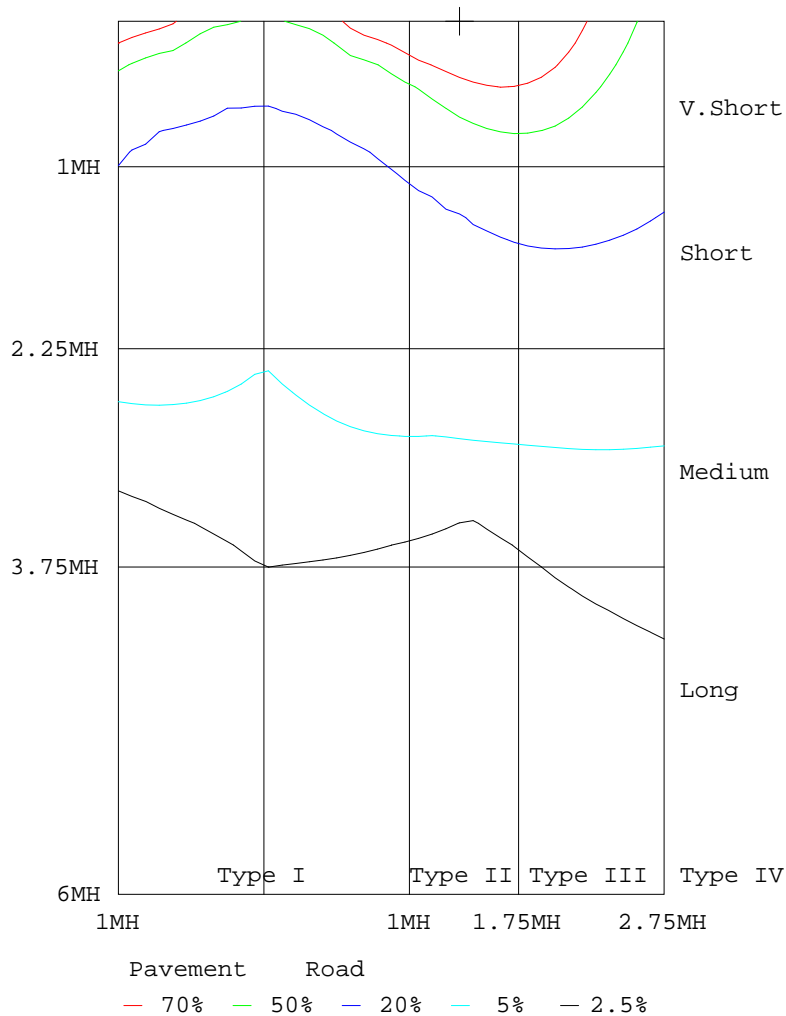
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:Seth
Test Date:2016-11-22

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=1.3361]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:26.61V I:0.9450A P:25.15W PF:1.000 Freq:0Hz Lamp Flux:3465.74x1 lm		
NAME: Integrated Solar Led Street Light	TYPE:	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: SHENZHEN LEADRAY OPTOELECTRONIC 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:Seth
 Test Date:2016-11-22

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=1.3361]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:26.61V I:0.9450A P:25.15W PF:1.000 Freq:0Hz Lamp Flux:3465.74x1 lm		
NAME: Integrated Solar Led Street Light	TYPE:	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: SHENZHEN LEADRAY OPTOELECTRONIC CO.,LTD.	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	920	919	920	919	918	918	919	920	920	919	920	919	918	918	919	920			
5	931	882	839	810	796	816	852	896	944	969	993	1006	1020	1010	1002	969			
10	974	856	759	701	687	717	783	873	983	1030	1071	1094	1102	1095	1077	1029			
15	1001	834	695	617	607	638	718	853	1004	1107	1167	1200	1200	1191	1162	1088			
20	1027	815	647	545	513	573	683	844	1063	1225	1301	1344	1339	1328	1275	1187			
25	1118	819	601	474	440	501	647	862	1181	1383	1469	1463	1462	1449	1424	1323			
30	1260	845	556	412	374	437	602	898	1359	1587	1605	1600	1573	1569	1577	1514			
35	1405	831	498	357	320	377	542	915	1511	1737	1689	1437	1286	1446	1684	1672			
40	1485	796	441	313	280	328	484	912	1600	1846	1537	801	518	897	1625	1782			
45	1591	807	397	278	251	297	442	947	1753	1930	1077	271	213	314	1273	1903			
50	1731	856	371	254	235	275	415	995	1875	1826	501	159	136	180	748	1950			
55	1894	931	355	236	218	257	404	1058	1908	1472	247	113	107	122	342	1797			
60	1997	994	340	219	198	236	381	1049	1817	1027	161	87.6	76.7	91.3	202	1472			
65	1748	922	302	191	125	198	326	889	1388	660	121	56.5	46.1	57.8	133	952			
70	866	511	207	106	68.9	136	223	541	824	410	84.4	32.9	28.2	32.0	76.4	442			
75	241	180	101	38.9	48.2	46.7	119	220	345	198	51.2	19.9	15.8	20.6	38.6	182			
80	41.8	53.9	48.0	28.3	38.6	28.4	57.7	59.8	27.6	39.8	20.3	0.14	0.14	0.07	12.2	54.7			
85	0.41	0.55	1.04	16.0	20.7	15.2	0.77	0.48	1.03	0.41	0.07	0.07	0.40	0.14	0.20	0.34			
90	0.07	0.14	0.07	0.00	0.00	0.00	0.00	0.14	0.82	0.41	0.07	2.16	3.34	0.20	0.20	0.34			
95	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.41	0.14	0.14	0.61	0.14	0.20	0.34			
100	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	1.79	0.68	0.20	0.14	0.07	0.14	0.27	0.54			
105	0.07	1.02	0.07	0.07	0.00	0.00	0.07	0.14	2.61	0.61	0.20	0.14	0.07	0.14	0.34	0.61			
110	0.55	1.43	0.95	0.00	0.00	0.00	0.14	0.41	2.61	0.61	0.20	0.14	0.07	0.14	0.34	0.61			
115	0.75	1.70	1.57	0.88	0.40	0.00	0.48	0.74	2.54	0.61	0.20	0.14	0.07	0.14	0.34	0.61			
120	0.75	1.77	2.32	1.42	1.15	0.47	1.02	0.75	2.26	0.61	0.20	0.14	0.07	0.14	0.34	0.61			
125	0.75	1.77	2.73	2.59	2.44	1.49	1.36	1.09	1.37	0.61	0.20	0.14	0.07	0.14	0.34	0.61			
130	0.75	1.77	3.07	2.66	1.97	2.10	1.97	1.09	0.82	0.61	0.27	0.14	0.07	0.14	0.34	0.61			
135	0.75	1.77	3.14	2.66	0.88	2.10	2.11	1.09	0.75	0.61	0.27	0.14	0.07	0.14	0.34	0.61			
140	0.75	1.70	3.14	3.20	0.75	2.24	2.17	1.09	0.75	0.61	0.34	0.20	0.07	0.20	0.41	0.61			
145	0.75	1.50	3.14	3.21	0.81	2.24	1.97	1.15	0.62	0.61	0.41	0.27	0.14	0.20	0.48	0.61			
150	0.75	1.43	3.00	3.21	1.08	2.24	1.97	1.15	0.62	0.61	0.48	0.41	0.27	0.34	0.61	0.68			
155	0.69	1.43	2.66	3.00	1.08	2.24	1.97	1.15	0.62	0.61	0.62	0.55	0.41	0.41	0.61	0.81			
160	0.69	1.23	2.32	2.73	1.08	2.24	1.90	1.22	0.62	0.61	0.75	0.61	0.54	0.47	0.61	0.82			
165	0.62	1.09	2.05	2.32	1.15	2.10	1.77	1.22	0.62	0.61	0.75	0.61	0.61	0.61	0.68	0.88			
170	0.62	1.09	1.84	1.91	1.15	1.76	1.56	1.15	0.62	0.61	0.82	0.75	0.74	0.68	0.88	0.95			
175	0.62	1.09	1.43	1.77	1.15	1.42	1.56	1.15	0.62	0.61	0.82	1.09	0.88	0.81	1.22	1.22			
180	0.62	0.82	1.30	1.37	1.02	1.22	1.43	1.15	0.62	0.61	0.89	1.30	1.36	1.09	1.22	1.42			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2016-11-22

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=1.3361]
 Remarks: