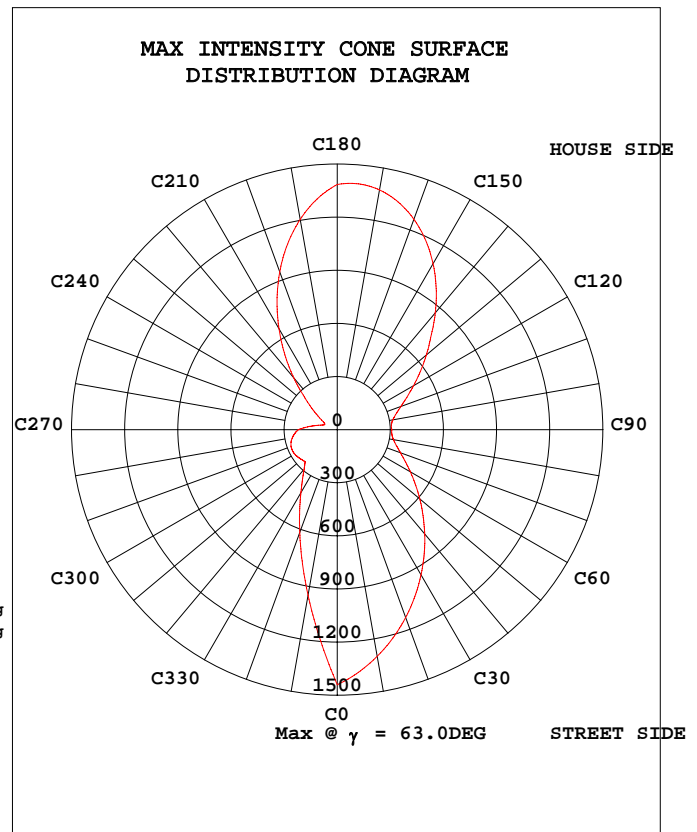
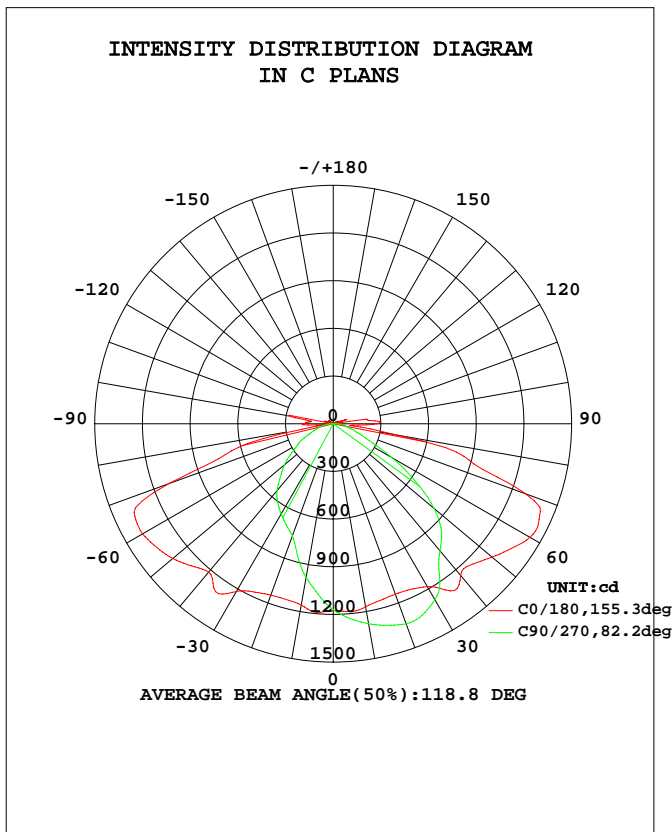


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.9V I:0.1506A P:30.44W PF:0.9196 Lamp Flux:4132x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 135.75 lm/W			
MODEL	DLG-LED-045-30W	Imax(cd)	1441	η street_up(%)	1.4
NOMINAL POWER(W)	30	LOR(%)	100.0	η street_down(%)	57.6
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	4132	η house_up(%)	1.2
NOMINAL FLUX(lm)	4132	MAXIMUM @(C, γ)	0,63.0	η house_down(%)	39.9
LAMPS INSIDE	1	η up(%)	2.6	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	97.4	SLI	19.251



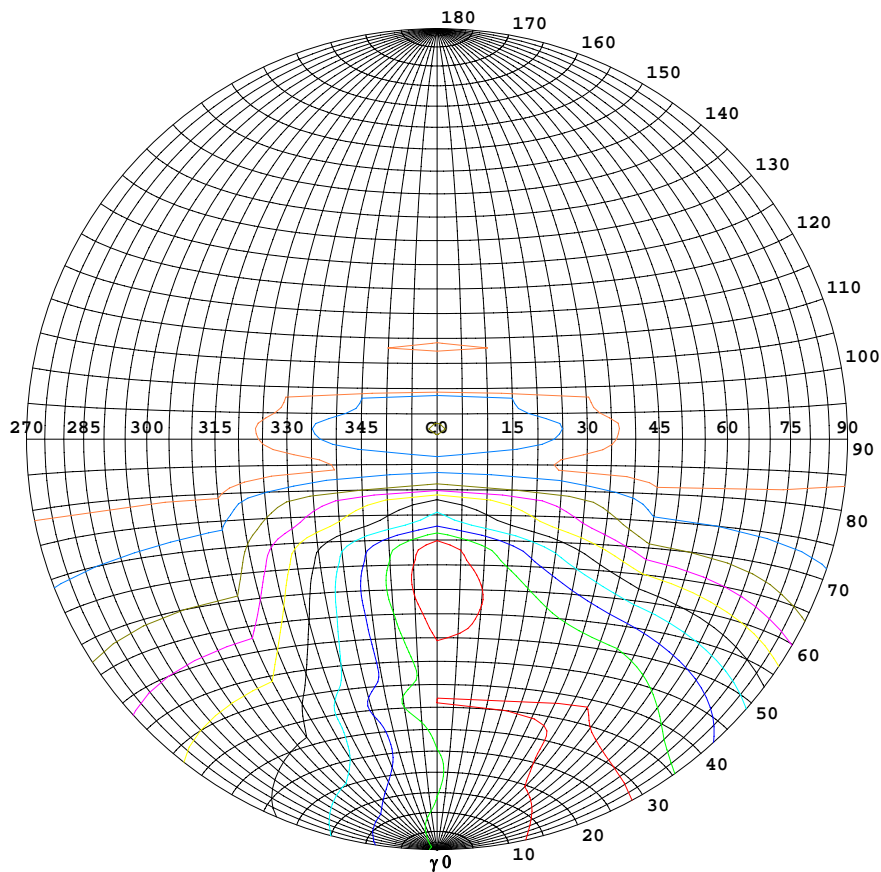
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GLY
Test Date:12 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:9.390m [K=1.0000]
Remarks:

Note: SLI:Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:219.9V I:0.1506A P:30.44W PF:0.9196 Lamp Flux:4132x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



Classification:

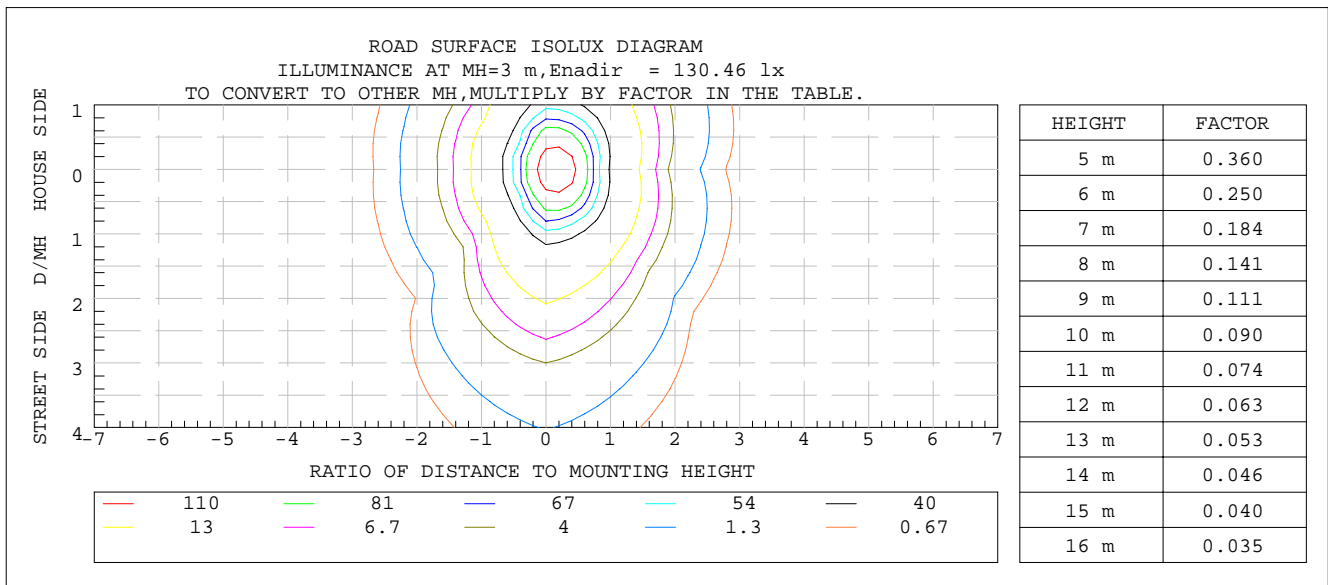
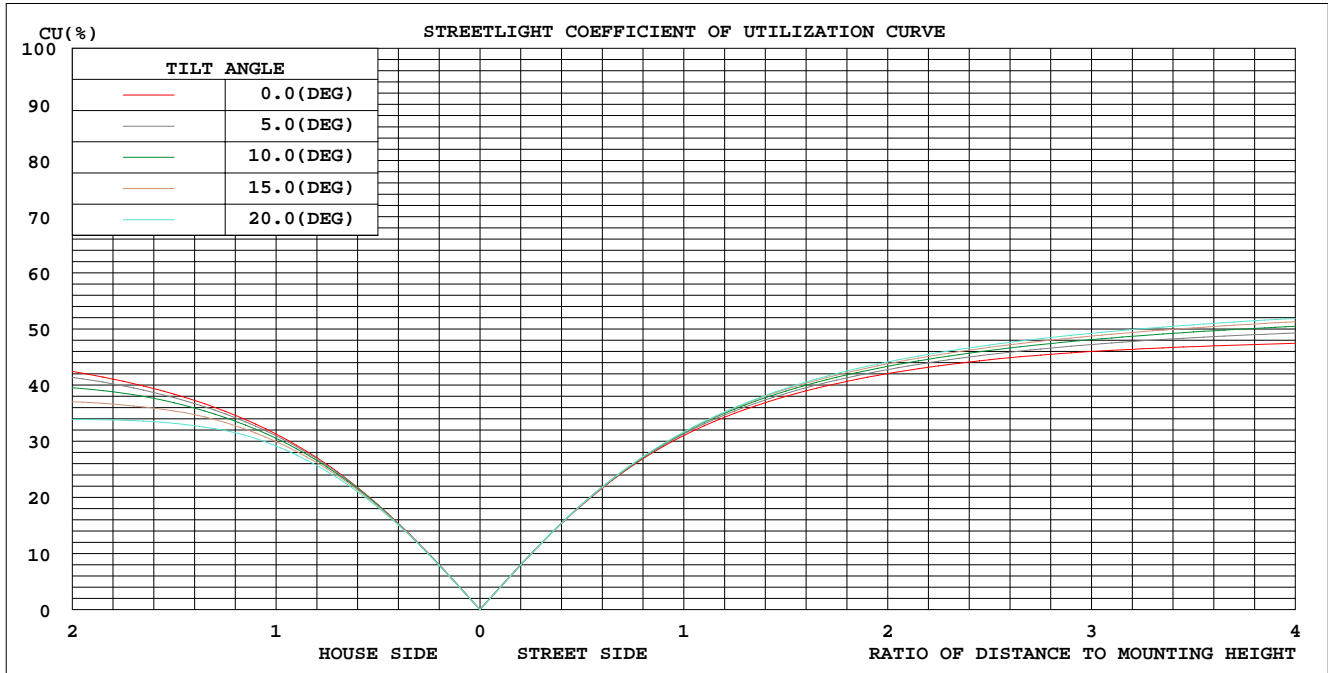
IES:Type IV - Short
 CIE:Broad - Intermediate
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:96.92cd/klm
 Max.At90:66.90cd/klm
 Max.80-90:96.92cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	1441
90%	1297
80%	1153
70%	1008
60%	864
50%	720
40%	576
30%	432
20%	288
10%	144
5%	72

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:GLY
 Test Date:12 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
 Humidity:65.0%
 Test Distance:9.390m [K=1.0000]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: GLY
Test Date: 12 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity: 65.0%
Test Distance: 9.390m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:219.9V I:0.1506A P:30.44W PF:0.9196 Lamp Flux:4132x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	\$lum,lamp
10	1170	1267	1278	1256	1159	1047	982.3	1038	0- 10	111.1	111.1	2.69,2.69
20	1142	1298	1340	1276	1148	880.2	751.8	873.8	10- 20	315.9	427.0	10.3,10.3
30	1184	1317	1279	1300	1218	752.4	656.7	736.3	20- 30	494.3	921.2	22.3,22.3
40	1247	1285	1045	1301	1219	650.7	550.2	629.7	30- 40	649.9	1571	38,38
50	1305	1165	827.0	1204	1318	492.6	400.9	478.4	40- 50	732.4	2304	55.7,55.7
60	1429	830.9	424.2	886.8	1385	312.1	254.9	302.6	50- 60	733.4	3037	73.5,73.5
70	1287	322.1	157.7	366.9	1097	173.4	133.1	170.5	60- 70	606.0	3643	88.2,88.2
80	400.5	82.28	77.87	77.24	198.5	61.73	63.30	64.91	70- 80	307.4	3950	95.6,95.6
90	276.4	20.95	10.53	20.71	183.6	17.25	9.227	19.73	80- 90	76.03	4026	97.4,97.4
100	4.778	1.651	11.14	1.307	291.2	2.777	7.924	2.272	90-100	64.24	4091	99,99
110	59.51	10.04	1.086	7.350	37.53	7.524	1.075	7.109	100-110	15.80	4106	99.4,99.4
120	31.93	5.521	1.337	6.504	33.62	4.744	1.687	5.494	110-120	11.70	4118	99.7,99.7
130	11.66	2.070	1.384	3.968	14.79	2.381	1.990	2.362	120-130	7.767	4126	99.8,99.9
140	2.820	1.750	1.389	2.298	7.053	2.194	2.044	2.962	130-140	3.100	4129	99.9,99.9
150	2.319	1.848	1.443	1.784	2.024	2.058	2.012	2.201	140-150	1.676	4131	100,100
160	2.561	2.689	1.480	2.230	2.401	2.367	1.881	2.321	150-160	0.9716	4132	100,100
170	2.975	2.098	1.646	1.927	2.344	1.927	1.811	2.167	160-170	0.6674	4132	100,100
180	1.795	1.784	1.749	1.755	1.767	1.778	1.755	1.767	170-180	0.1856	4132	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GLY
Test Date:12 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:9.390m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:219.9V I:0.1506A P:30.44W PF:0.9196 Lamp Flux:4132x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

1929.6 lm

%lum = 46.7%

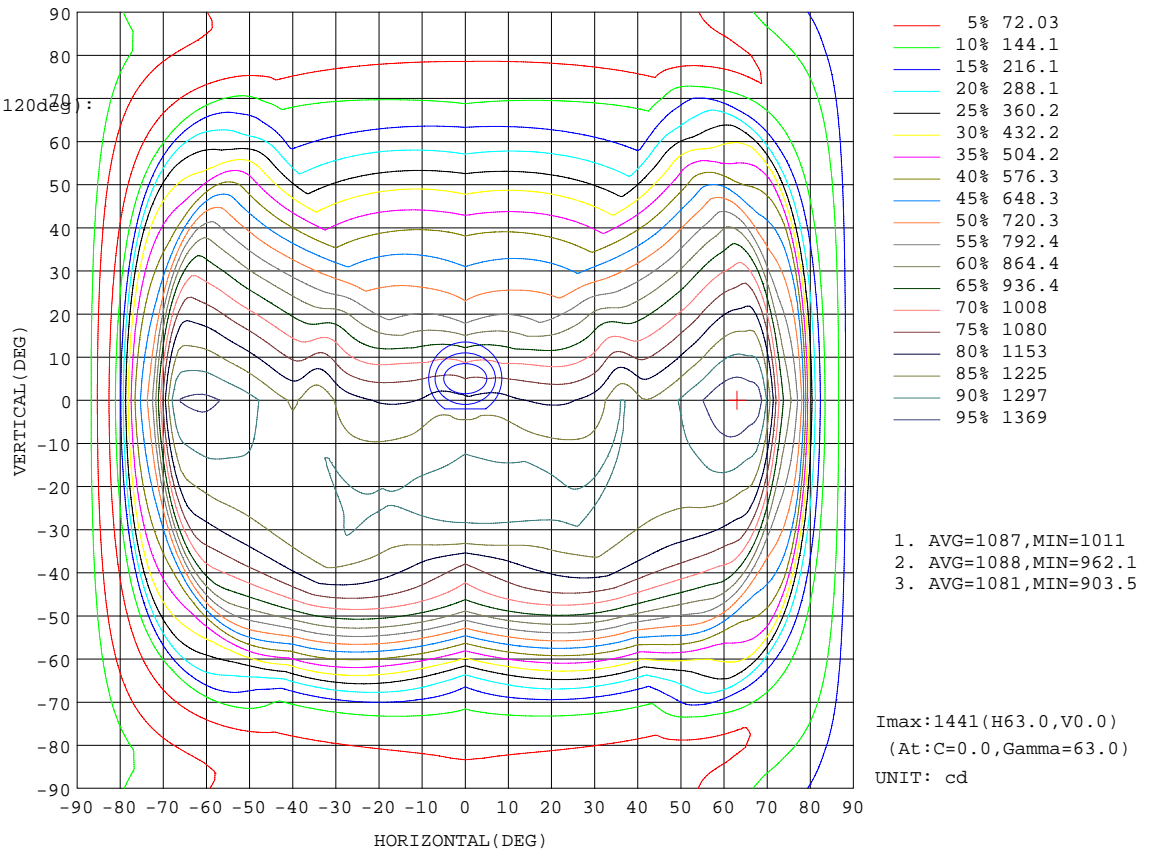
%lamp = 46.7%

Conical surface Flux(120deg):

3036.9 lm

%lum = 73.5%

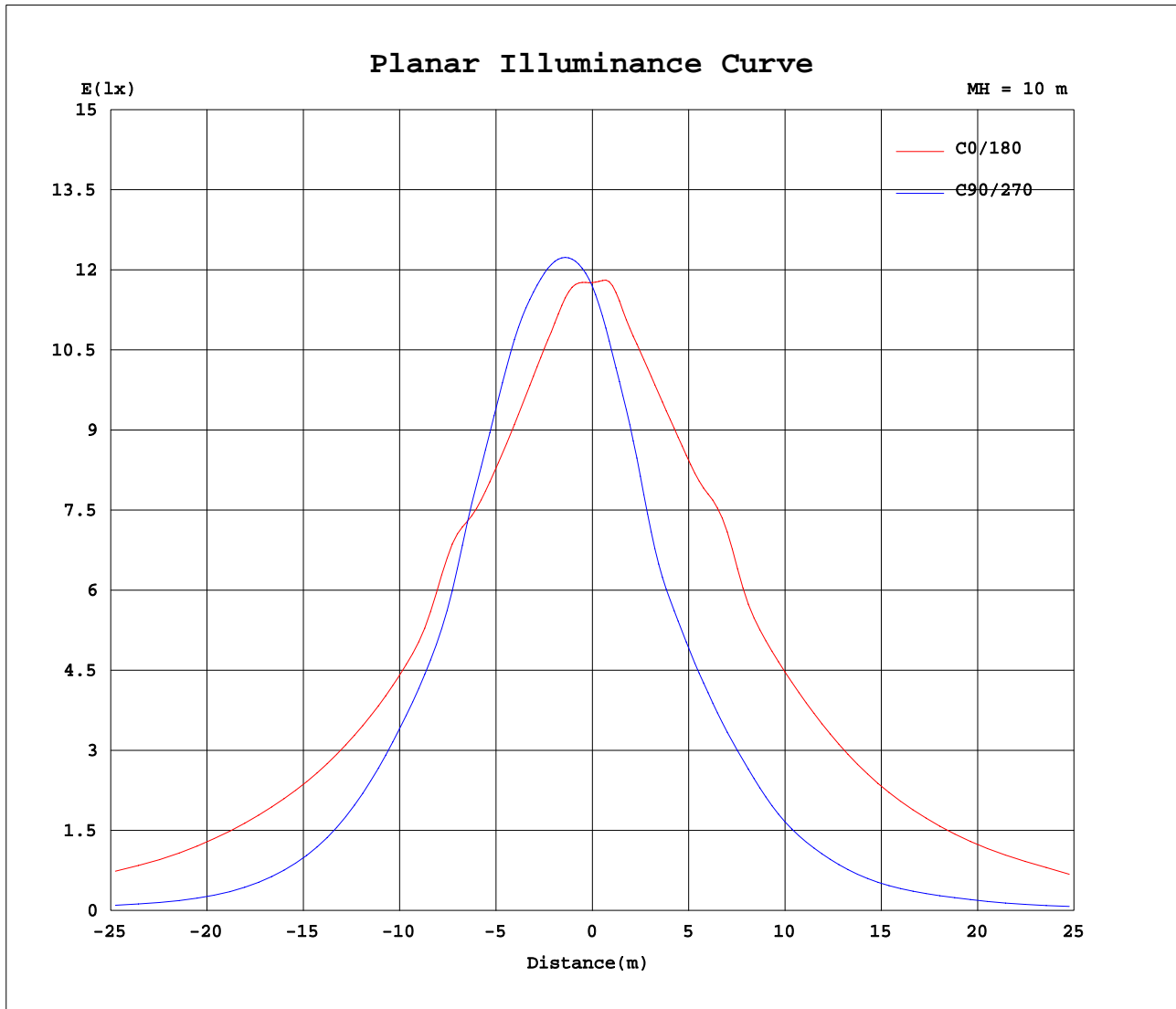
%lamp = 73.5%



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GLY
Test Date:12 October 2019

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:9.390m [K=1.0000]
Remarks:

Planar Illuminance Curve

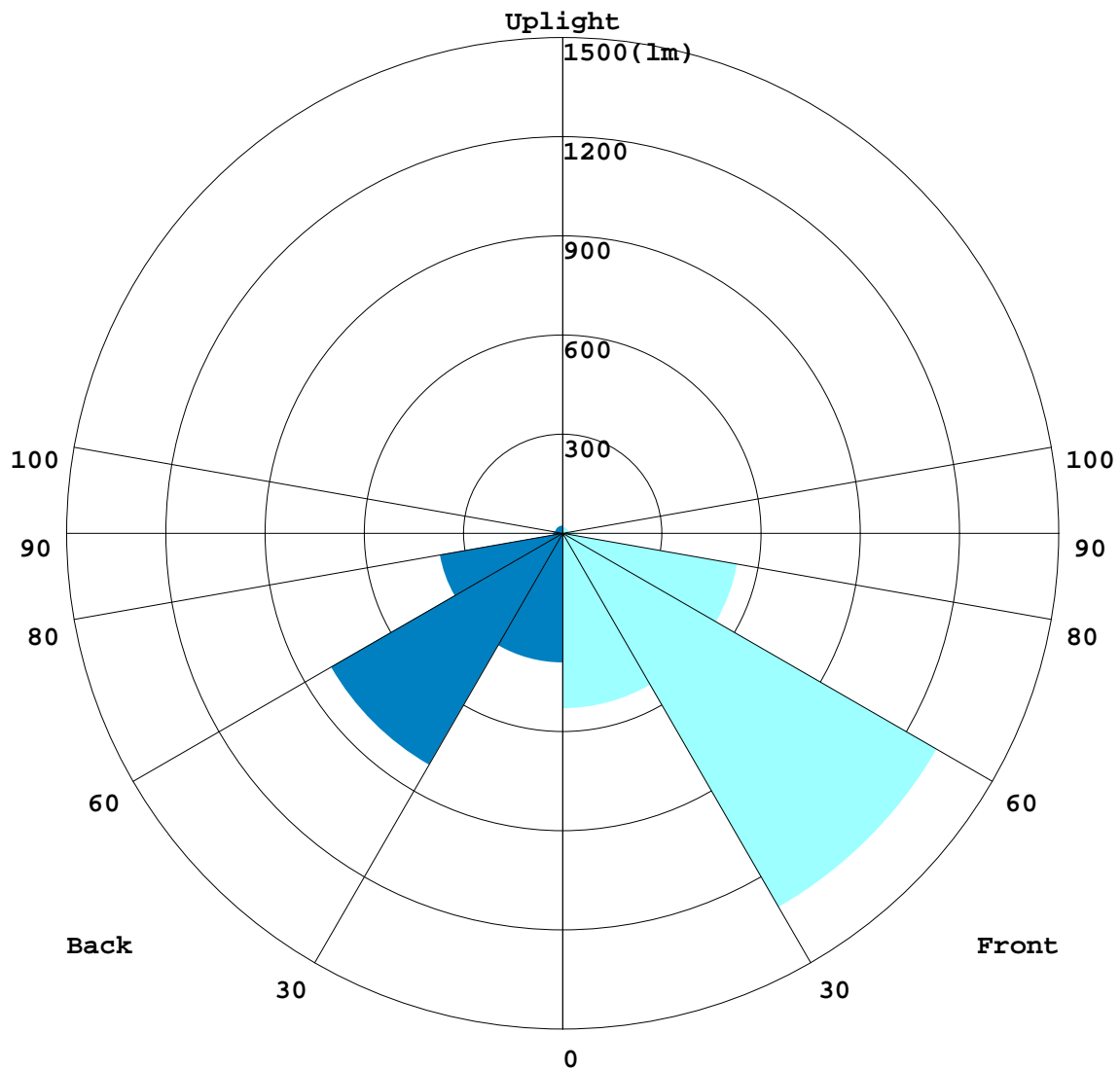


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: GLY
 Test Date: 12 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.293
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks:

LCS REPORT

Test:U:219.9V I:0.1506A P:30.44W PF:0.9196 Lamp Flux:4132x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:GLY
 Test Date:12 October 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
 Humidity:65.0%
 Test Distance:9.390m [K=1.0000]
 Remarks:

BUG REPORT

Test:U:219.9V I:0.1506A P:30.44W PF:0.9196 Lamp Flux:4132x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	529.83	12.8
FM - Front-Medium(30-60)	1306.6	31.6
FH - Front-High(60-80)	536.11	13.0
FVH - Front-Very High(80-90)	45.668	1.1
Total Forward Light	2473.2	59.8

BL - Back-Low(0-30)	391.42	9.5
BM - Back-Medium(30-60)	809.07	19.6
BH - Back-High(60-80)	377.28	9.1
BVH - Back-Very High(80-90)	30.366	0.7
Total Back Light	1659.3	40.2

UL - Uplight-Low(90-100)	64.238	1.6
UH - Uplight-High(100-180)	41.864	1.0
Total Up Light	106.1	2.6

BUG(Back,Up,Glare) Rating	B1-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2418.2	54.979	2473.2
Street Side	1608.1	51.123	1659.3

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GLY
Test Date:12 October 2019

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:9.390m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.9V I:0.1506A P:30.44W PF:0.9196 Lamp Flux:4132x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEC)	0	45	90	135	180	225	270	315										
γ (DEC)																		
0	1176	1172	1169	1164	1176	1172	1169	1164										
5	1186	1224	1230	1225	1192	1121	1079	1107										
10	1170	1267	1278	1256	1159	1047	982	1038										
15	1150	1279	1313	1257	1145	967	864	961										
20	1142	1298	1340	1276	1148	880	752	874										
25	1151	1315	1328	1290	1169	797	702	788										
30	1184	1317	1279	1300	1218	752	657	736										
35	1284	1311	1166	1305	1290	708	608	687										
40	1247	1285	1045	1301	1219	651	550	630										
45	1247	1238	964	1267	1264	577	470	560										
50	1305	1165	827	1204	1318	493	401	478										
55	1368	1029	632	1075	1356	403	318	391										
60	1429	831	424	887	1385	312	255	303										
65	1429	582	250	648	1377	234	188	229										
70	1287	322	158	367	1097	173	133	170										
75	886	161	107	152	665	123	95.1	124										
80	400	82.3	77.9	77.2	199	61.7	63.3	64.9										
85	112	34.9	61.0	32.6	58.5	25.2	34.7	26.4										
90	276	21.0	10.5	20.7	184	17.3	9.23	19.7										
95	235	10.0	15.6	14.4	147	6.17	10.2	9.32										
100	4.78	1.65	11.1	1.31	291	2.78	7.92	2.27										
105	4.91	3.47	0.69	6.96	4.66	3.09	3.23	4.14										
110	59.5	10.0	1.09	7.35	37.5	7.52	1.08	7.11										
115	31.2	5.81	2.00	7.00	25.2	4.90	1.83	5.74										
120	31.9	5.52	1.34	6.50	33.6	4.74	1.69	5.49										
125	18.9	4.35	1.34	5.14	32.0	2.58	1.92	5.31										
130	11.7	2.07	1.38	3.97	14.8	2.38	1.99	2.36										
135	9.89	2.29	1.25	2.91	9.00	2.30	1.93	3.14										
140	2.82	1.75	1.39	2.30	7.05	2.19	2.04	2.96										
145	5.45	2.03	1.48	1.86	4.29	2.12	2.16	2.20										
150	2.32	1.85	1.44	1.78	2.02	2.06	2.01	2.20										
155	2.56	1.93	1.45	2.02	2.13	2.21	1.93	2.25										
160	2.56	2.69	1.48	2.23	2.40	2.37	1.88	2.32										
165	2.48	2.80	1.58	2.45	2.54	2.26	1.84	2.83										
170	2.98	2.10	1.65	1.93	2.34	1.93	1.81	2.17										
175	2.24	1.81	1.68	1.83	2.05	1.90	1.77	1.94										
180	1.80	1.78	1.75	1.76	1.77	1.78	1.76	1.77										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:GLY

Test Date:12 October 2019

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293

Humidity:65.0%

Test Distance:9.390m [K=1.0000]

Remarks: