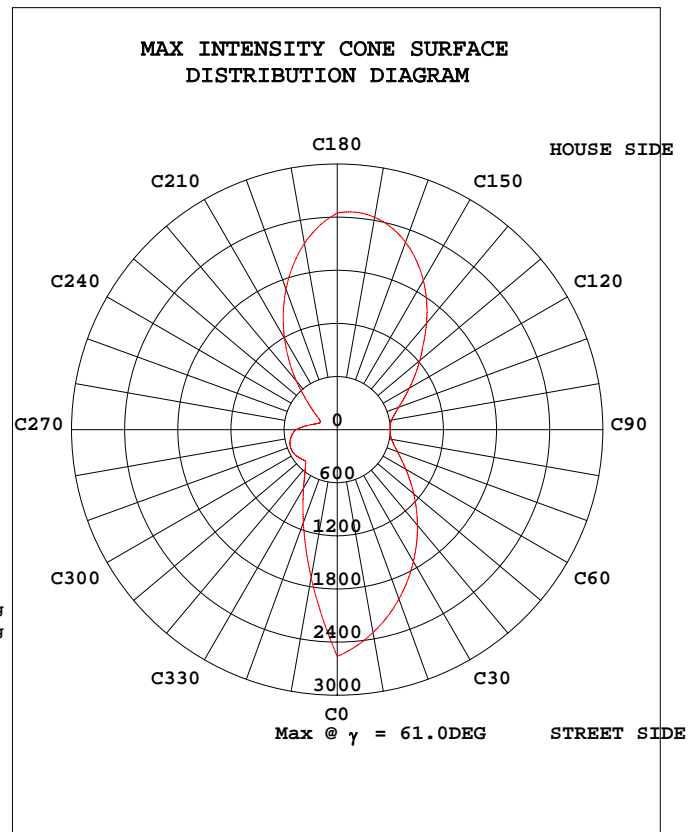
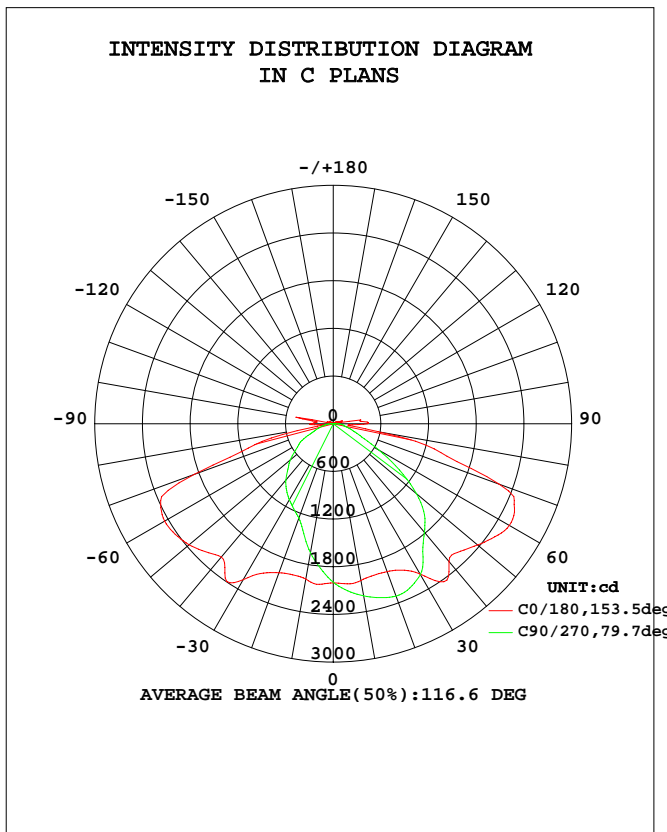


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.8V I:0.2830A P:59.43W PF:0.9554 Lamp Flux:7114x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.71 lm/W			
MODEL	DLG-LED-045-60W	Imax(cd)	2561	$\eta$ street_up(%)	1.3
NOMINAL POWER(W)	60	LOR(%)	100.0	$\eta$ street_down(%)	57.6
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	7114	$\eta$ house_up(%)	1.1
NOMINAL FLUX(lm)	7114	MAXIMUM @(C, $\gamma$ )	0,61.0	$\eta$ house_down(%)	40.0
LAMPS INSIDE	1	$\eta$ up(%)	2.4	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	$\eta$ down(%)	97.6	SLI	19.740



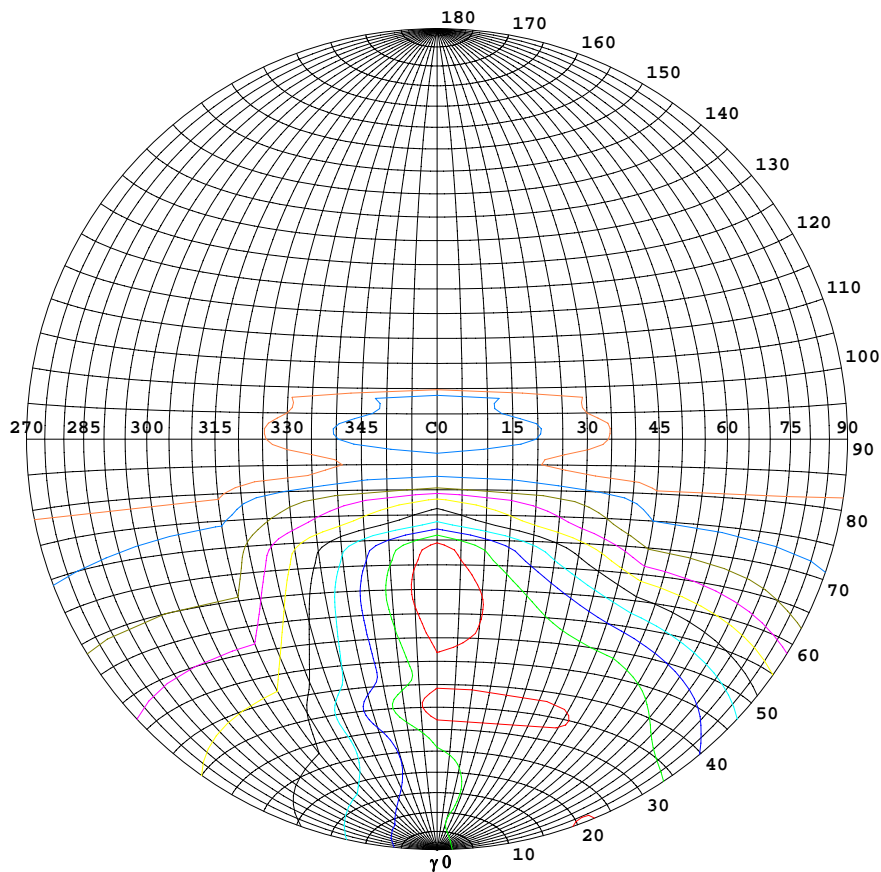
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:GLY  
Test Date:12 October 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:219.8V I:0.2830A P:59.43W PF:0.9554 Lamp Flux:7114x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



Classification:

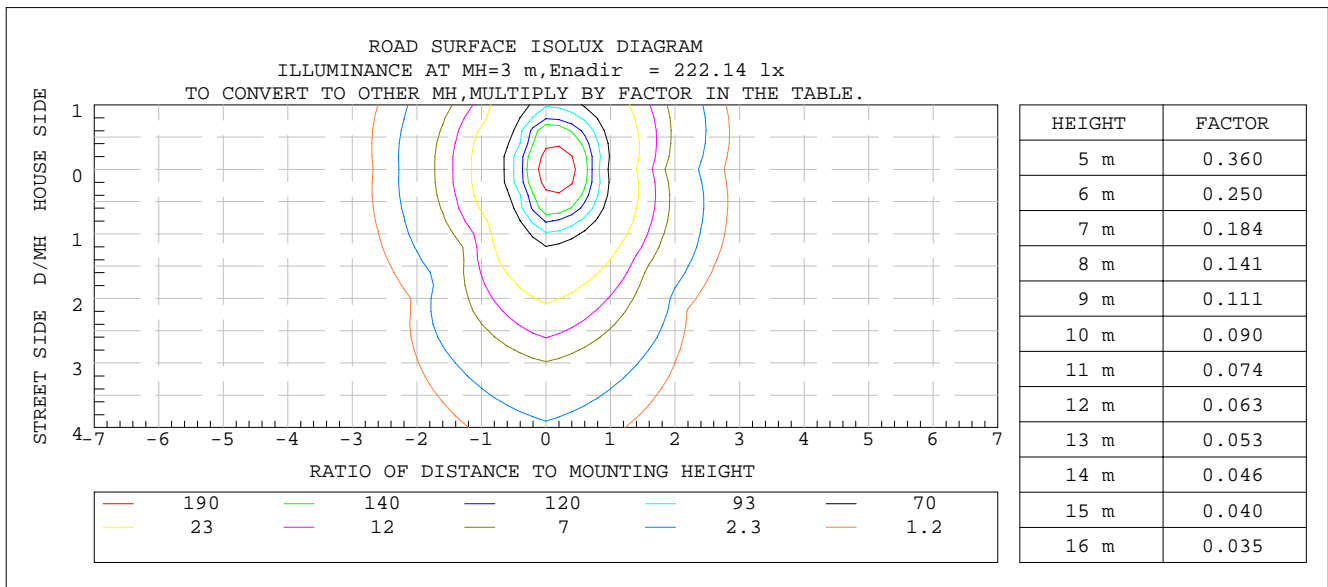
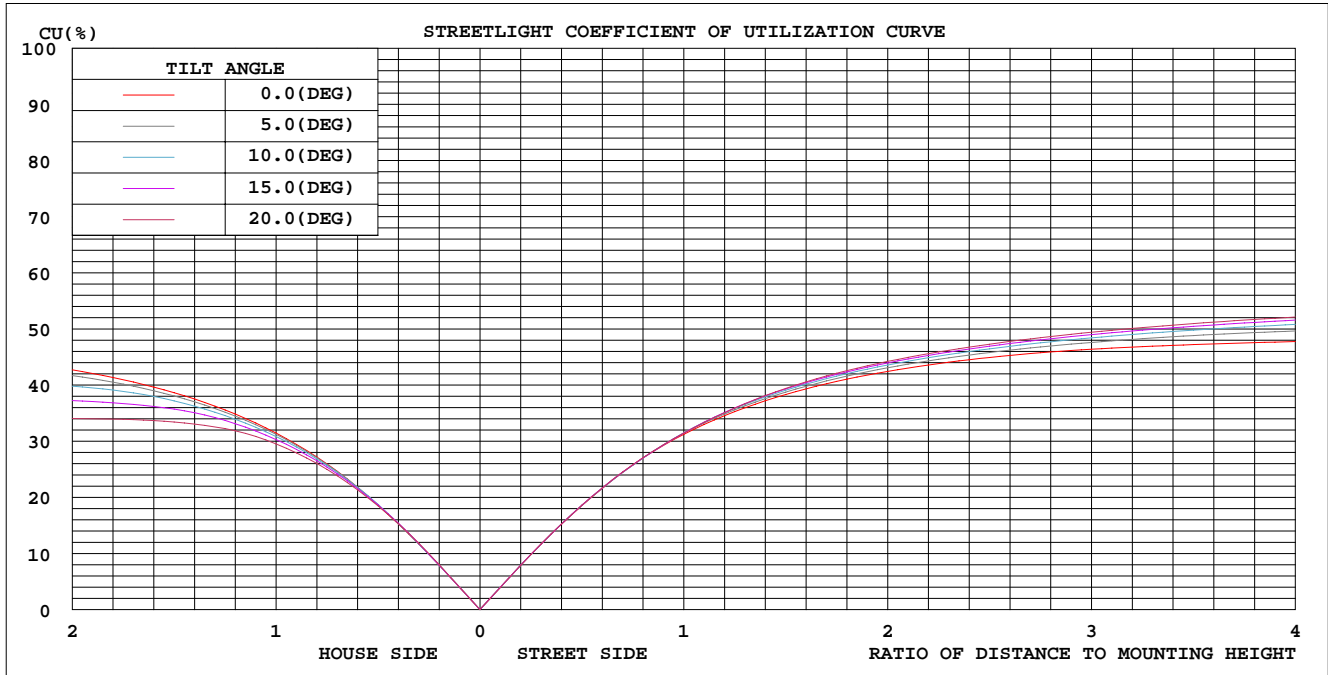
IES:Type IV - Short  
 CIE:Broad - Intermediate  
 IES:None cut-off  
 CIE:Non-cut-off  
 Max.At80:80.29cd/klm  
 Max.At90:60.13cd/klm  
 Max.80-90:80.29cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I <sub>max</sub> =100%	2561
90%	2305
80%	2049
70%	1793
60%	1537
50%	1281
40%	1024
30%	768
20%	512
10%	256
5%	128

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:219.8V I:0.2830A P:59.43W PF:0.9554 Lamp Flux:7114x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	2004	2179	2199	2172	1985	1772	1651	1761	0- 10	189.5	189.5	2.66,2.66
20	1982	2255	2309	2218	1995	1467	1265	1465	10- 20	540.7	730.2	10.3,10.3
30	2182	2297	2194	2276	2266	1270	1106	1248	20- 30	857.2	1587	22.3,22.3
40	2267	2263	1785	2304	2190	1093	927.7	1066	30- 40	1145	2732	38.4,38.4
50	2372	1991	1365	2071	2369	828.5	704.7	811.1	40- 50	1281	4013	56.4,56.4
60	2559	1347	662.9	1457	2450	541.6	488.5	529.5	50- 60	1270	5283	74.3,74.3
70	2222	495.1	271.9	547.3	1862	337.9	241.1	327.0	60- 70	1037	6321	88.9,88.8
80	571.2	136.1	131.9	128.1	274.4	107.1	113.9	113.6	70- 80	500.5	6821	95.9,95.9
90	427.8	35.30	18.30	34.72	275.5	29.09	15.90	33.62	80- 90	119.9	6941	97.6,97.6
100	104.7	2.797	20.25	2.269	478.0	5.737	13.84	4.188	90-100	100.4	7042	99,99
110	86.61	17.04	2.012	11.24	60.71	12.57	2.261	14.01	100-110	23.53	7065	99.3,99.3
120	54.69	9.793	2.590	10.19	54.27	8.959	4.119	11.94	110-120	19.30	7084	99.6,99.6
130	22.43	4.453	2.872	7.020	25.07	6.848	5.392	6.909	120-130	14.15	7099	99.8,99.8
140	7.096	3.883	3.076	3.542	13.69	6.198	6.147	7.896	130-140	6.556	7105	99.9,99.9
150	6.256	4.278	3.373	4.107	5.820	6.152	5.643	6.523	140-150	4.012	7109	99.9,99.9
160	6.129	5.567	3.550	4.448	5.726	6.654	5.489	6.432	150-160	2.502	7112	100,100
170	6.403	4.928	3.824	4.048	5.750	5.564	4.939	5.900	160-170	1.597	7113	100,100
180	4.945	5.100	4.585	4.854	4.900	5.037	4.597	4.779	170-180	0.4757	7114	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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:219.8V I:0.2830A P:59.43W PF:0.9554 Lamp Flux:7114x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

3360.4 lm

%lum = 47.2%

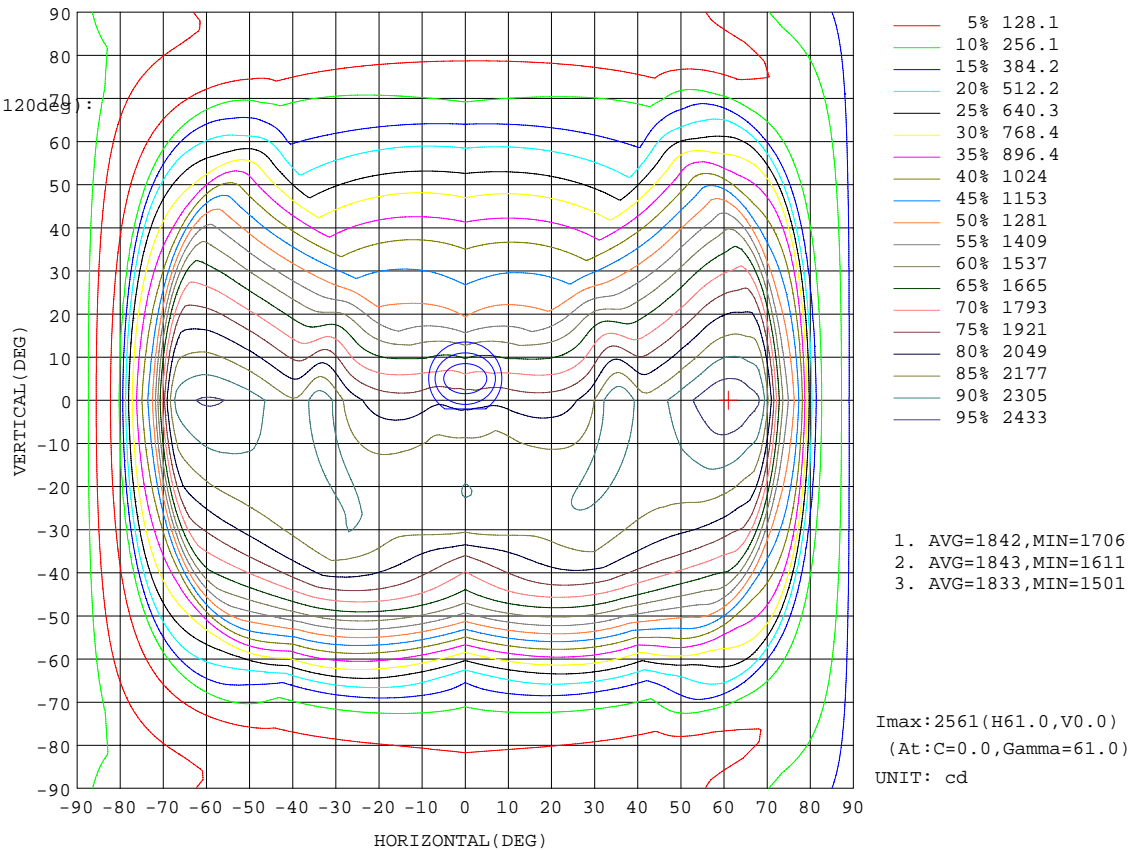
%lamp = 47.2%

Conical surface Flux(120deg):

5283.5 lm

%lum = 74.3%

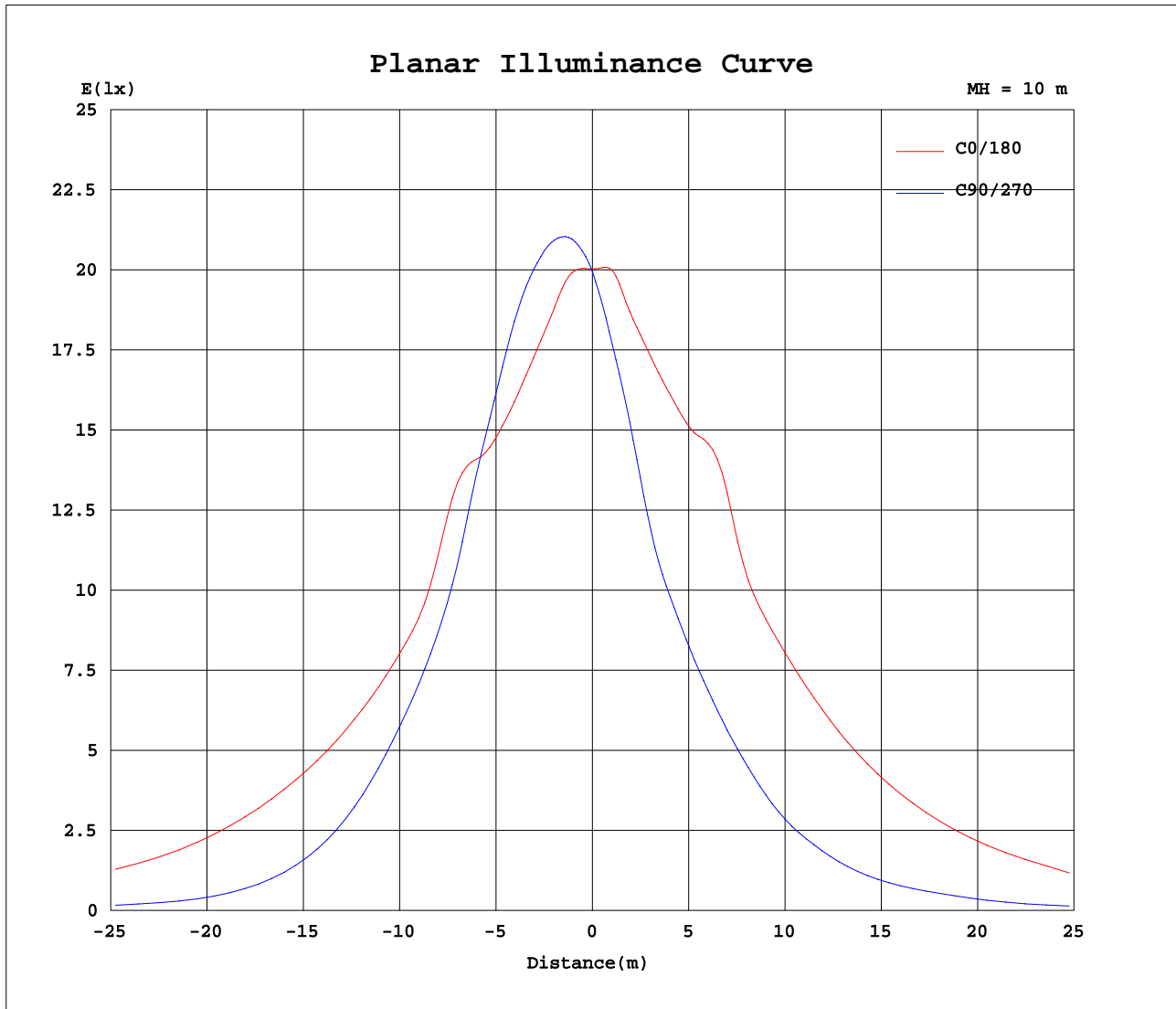
%lamp = 74.3%



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:

### Planar Illuminance Curve

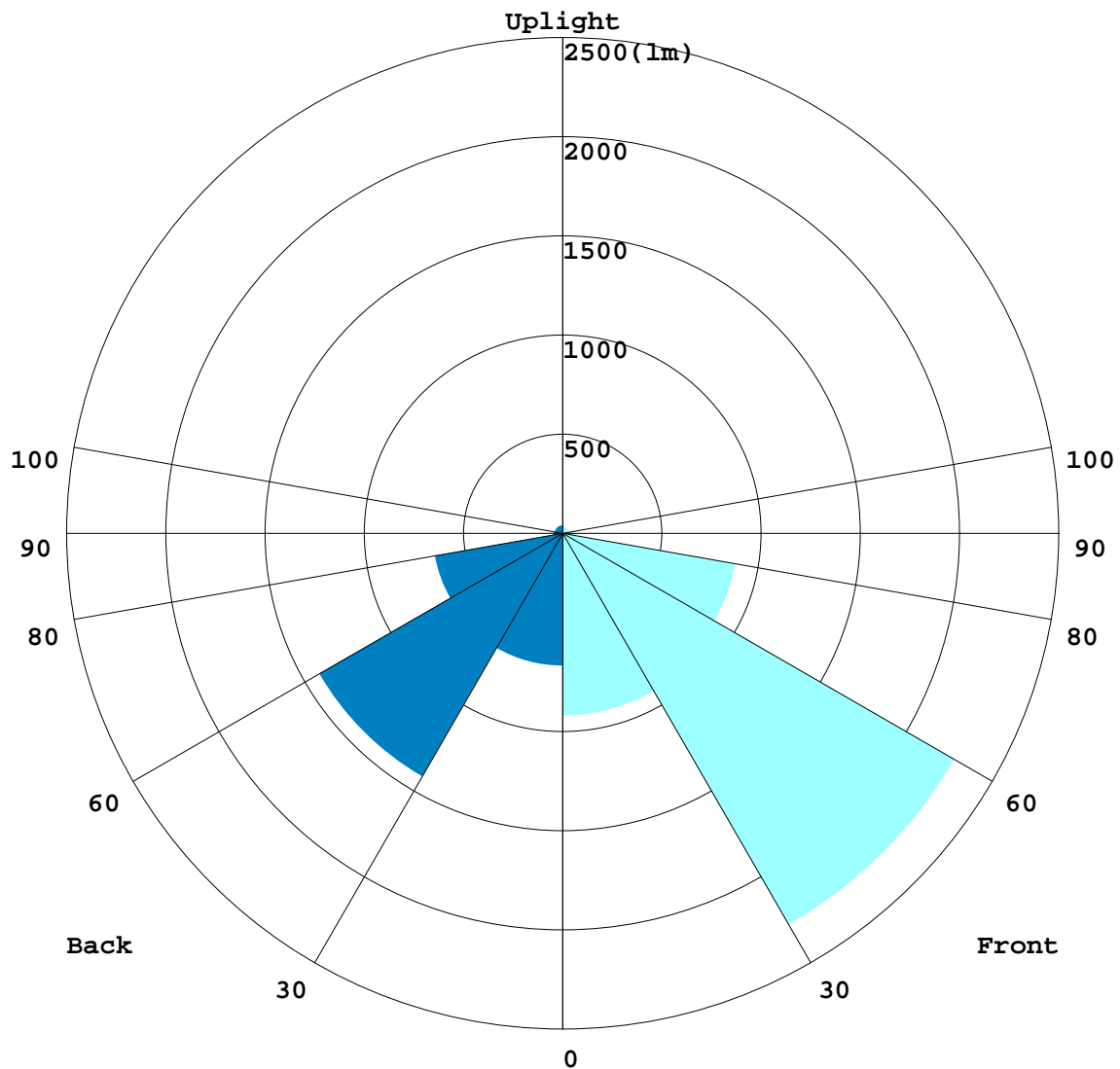


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: GLY  
 Test Date: 12 October 2019

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:219.8V I:0.2830A P:59.43W PF:0.9554 Lamp Flux:7114x1 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:219.8V I:0.2830A P:59.43W PF:0.9554 Lamp Flux:7114x1 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)	919.46	12.9
FM - Front-Medium(30-60)	2280.2	32.1
FH - Front-High(60-80)	883.57	12.4
FVH - Front-Very High(80-90)	71.454	1.0
Total Forward Light	4244.5	59.7

BL - Back-Low(0-30)	667.93	9.4
BM - Back-Medium(30-60)	1415.9	19.9
BH - Back-High(60-80)	654.19	9.2
BVH - Back-Very High(80-90)	48.467	0.7
Total Back Light	2869.1	40.3

UL - Uplight-Low(90-100)	100.37	1.4
UH - Uplight-High(100-180)	72.132	1.0
Total Up Light	172.5	2.4

BUG(Back,Up,Glare) Rating	B2-U4-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4154.7	89.843	4244.5
Street Side	2786.5	82.657	2869.1

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:219.8V I:0.2830A P:59.43W PF:0.9554 Lamp Flux:7114x1 lm									
NAME: LED GARDEN LIGHTING					TYPE:LED			WEIGHT:5	
SPEC.:					DIM.:			SERIAL No.:1	
MFR.:					SUR.:			Shielding Angle:	

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	2003	1996	1995	1988	2003	1996	1995	1988										
5	2022	2093	2111	2096	2029	1894	1828	1882										
10	2004	2179	2199	2172	1985	1772	1651	1761										
15	1974	2215	2265	2181	1969	1621	1434	1620										
20	1982	2255	2309	2218	1995	1467	1265	1465										
25	2033	2290	2280	2249	2074	1344	1180	1333										
30	2182	2297	2194	2276	2266	1270	1106	1248										
35	2428	2296	1965	2306	2372	1193	1024	1164										
40	2267	2263	1785	2304	2190	1093	928	1066										
45	2269	2173	1625	2227	2276	968	807	946										
50	2372	1991	1365	2071	2369	829	705	811										
55	2481	1718	1018	1810	2427	684	580	667										
60	2559	1347	663	1457	2450	542	489	530										
65	2516	909	397	1025	2397	424	351	413										
70	2222	495	272	547	1862	338	241	327										
75	1401	255	186	246	1022	228	172	228										
80	571	136	132	128	274	107	114	114										
85	187	59.3	102	55.0	86.5	43.1	60.9	45.8										
90	428	35.3	18.3	34.7	275	29.1	15.9	33.6										
95	352	16.3	26.2	24.5	215	10.7	17.2	16.1										
100	105	2.80	20.3	2.27	478	5.74	13.8	4.19										
105	8.01	5.89	1.39	11.5	9.36	6.18	6.22	8.28										
110	86.6	17.0	2.01	11.2	60.7	12.6	2.26	14.0										
115	51.8	10.0	3.81	10.2	35.3	9.07	3.70	11.9										
120	54.7	9.79	2.59	10.2	54.3	8.96	4.12	11.9										
125	35.1	8.33	2.75	8.49	53.1	8.02	4.91	11.7										
130	22.4	4.45	2.87	7.02	25.1	6.85	5.39	6.91										
135	18.8	4.88	2.80	5.50	16.4	6.30	5.55	8.10										
140	7.10	3.88	3.08	3.54	13.7	6.20	6.15	7.90										
145	11.7	4.48	3.40	4.04	9.39	6.12	6.41	6.48										
150	6.26	4.28	3.37	4.11	5.82	6.15	5.64	6.52										
155	6.47	4.44	3.45	4.56	5.71	6.40	5.44	6.32										
160	6.13	5.57	3.55	4.45	5.73	6.65	5.49	6.43										
165	5.74	5.76	3.63	4.62	6.39	6.31	5.32	6.97										
170	6.40	4.93	3.82	4.05	5.75	5.56	4.94	5.90										
175	5.50	4.68	4.19	4.40	5.28	5.48	4.84	5.34										
180	4.95	5.10	4.59	4.85	4.90	5.04	4.60	4.78										

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: