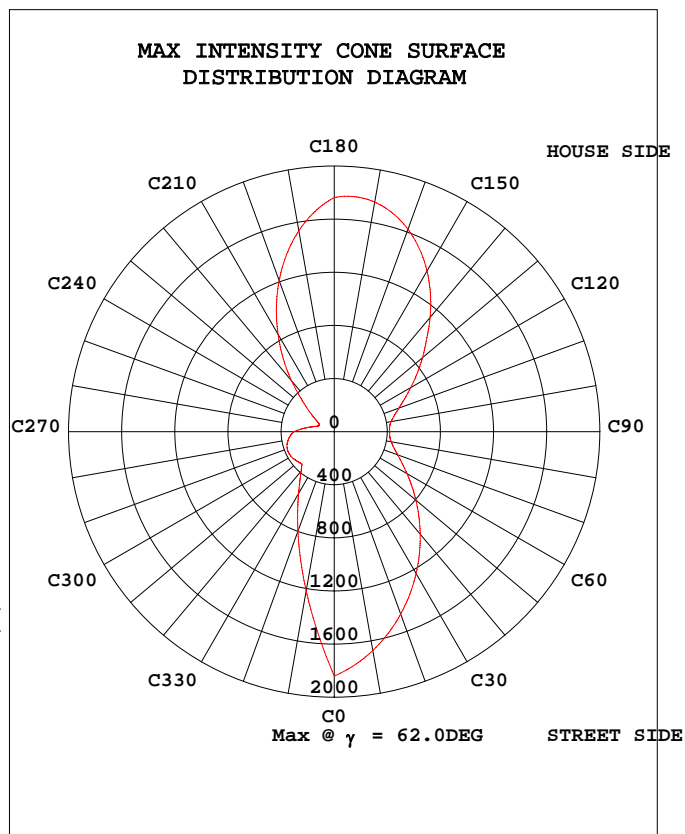
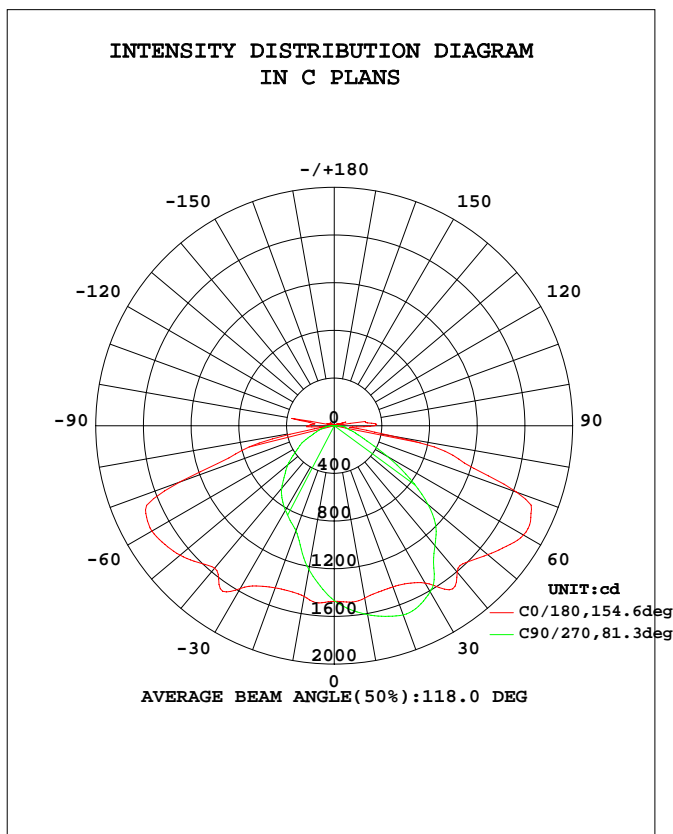


## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.9V I:0.1914A P:40.00W PF:0.9504 Lamp Flux:5201x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.05 lm/W			
MODEL	DLG-LED-045-40W	Imax(cd)	1840	$\eta$ street_up(%)	1.3
NOMINAL POWER(W)	40	LOR(%)	100.0	$\eta$ street_down(%)	57.6
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	5201	$\eta$ house_up(%)	1.1
NOMINAL FLUX(lm)	5201	MAXIMUM @ (C, $\gamma$ )	0,62.0	$\eta$ house_down(%)	39.9
LAMPS INSIDE	1	$\eta$ up(%)	2.4	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	$\eta$ down(%)	97.6	SLI	19.476



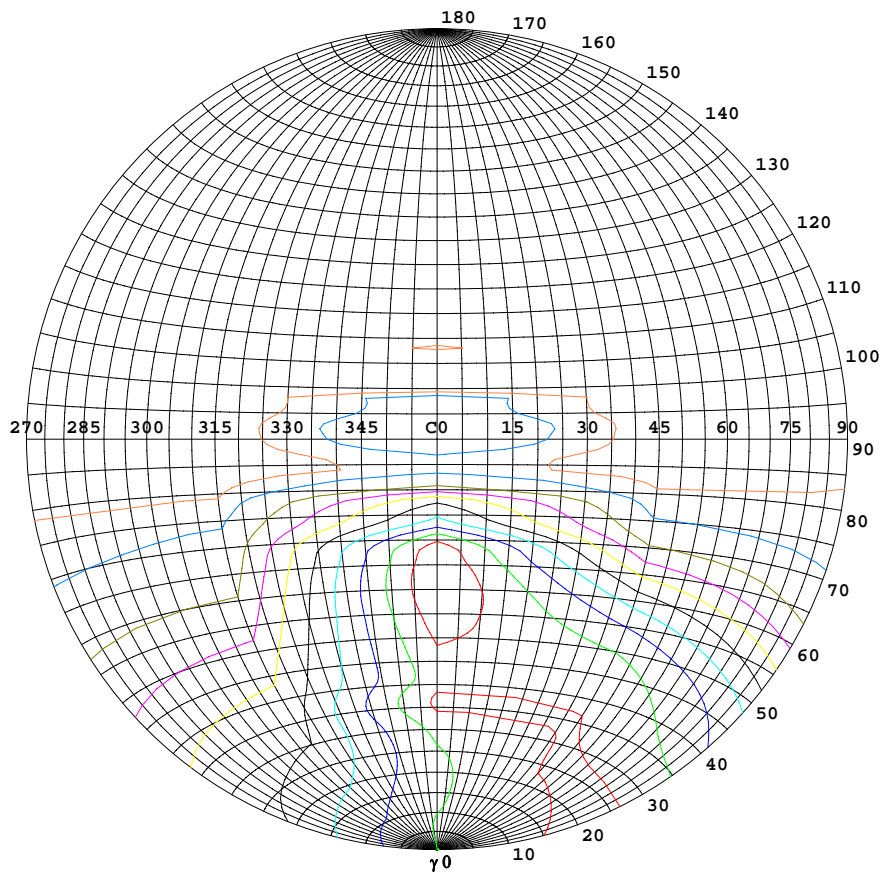
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:GLY  
Test Date:12 October 2019

$\gamma$  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:219.9V I:0.1914A P:40.00W PF:0.9504 Lamp Flux:5201x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



Classification:

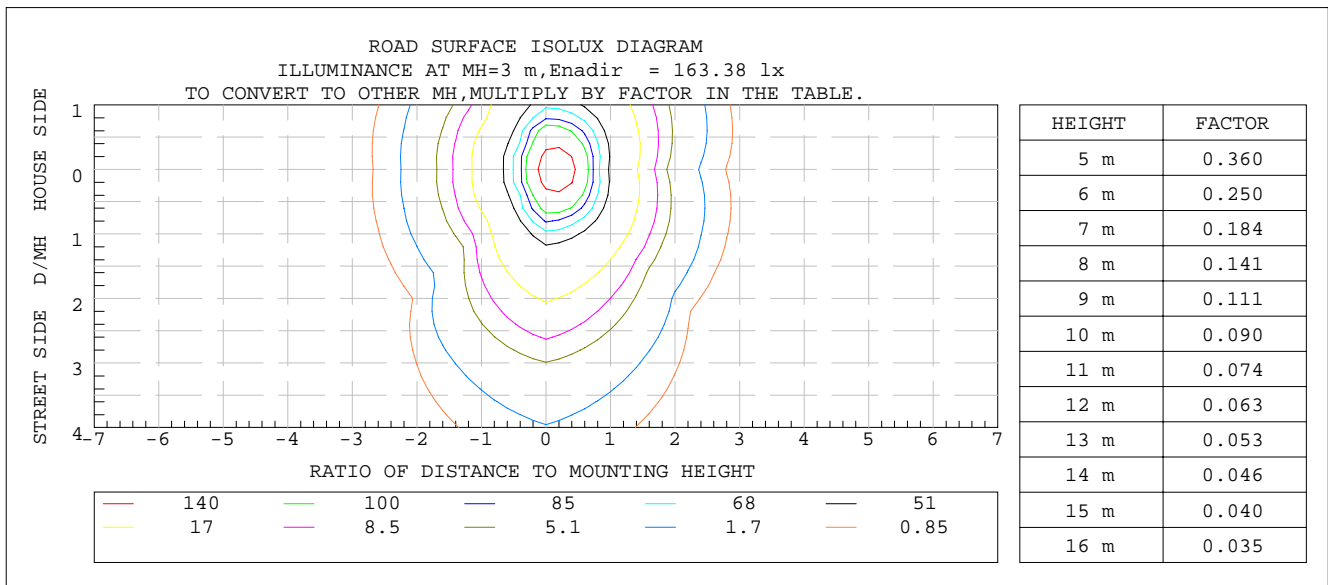
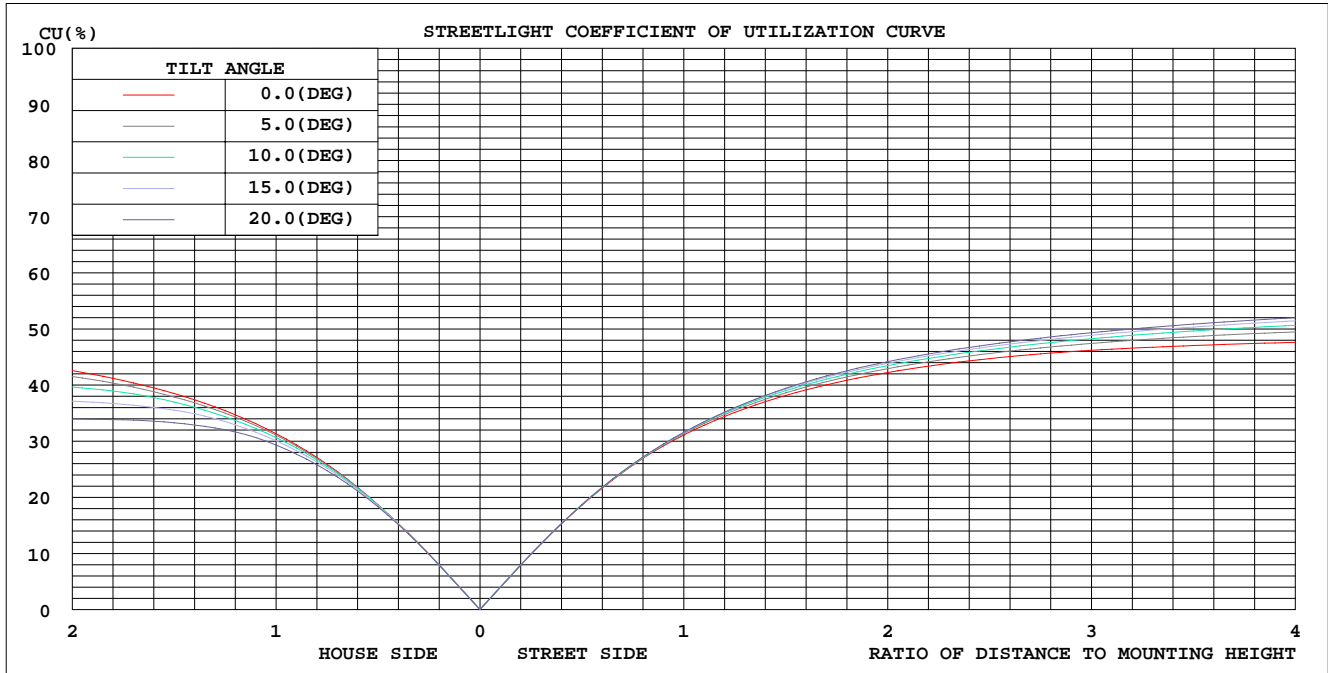
IES:Type IV - Short  
 CIE:Broad - Intermediate  
 IES:None cut-off  
 CIE:Non-cut-off  
 Max.At80:90.56cd/klm  
 Max.At90:64.32cd/klm  
 Max.80-90:90.56cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I <sub>max</sub> =100%	1840
90%	1656
80%	1472
70%	1288
60%	1104
50%	920
40%	736
30%	552
20%	368
10%	184
5%	92

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:0.1914A P:40.00W PF:0.9504 Lamp Flux:5201x1 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	1468	1593	1609	1586	1454	1308	1226	1301	0- 10	139.3	139.3	2.68,2.68
20	1439	1639	1689	1613	1447	1092	938.7	1090	10- 20	396.7	536.0	10.3,10.3
30	1524	1666	1610	1648	1577	939.4	820.1	922.9	20- 30	623.7	1160	22.3,22.3
40	1605	1632	1314	1657	1560	810.5	686.6	788.4	30- 40	825.6	1985	38.2,38.2
50	1682	1466	1027	1518	1689	613.3	508.4	599.4	40- 50	928.8	2914	56,56
60	1833	1024	515.1	1099	1767	392.2	333.6	382.7	50- 60	926.8	3841	73.8,73.8
70	1627	391.1	199.6	437.9	1373	230.1	170.9	224.5	60- 70	761.9	4603	88.5,88.5
80	471.0	102.0	97.42	95.80	227.9	77.79	81.00	82.33	70- 80	379.0	4982	95.8,95.8
90	334.5	26.10	13.34	25.81	217.7	21.65	11.56	24.70	80- 90	92.32	5074	97.6,97.6
100	4.954	2.014	14.33	1.644	361.5	3.052	9.942	2.857	90-100	77.91	5152	99.1,99.1
110	69.23	12.56	1.348	9.051	44.74	9.711	1.252	8.913	100-110	17.11	5169	99.4,99.4
120	39.20	6.832	1.641	7.966	41.26	5.900	1.961	6.895	110-120	14.24	5183	99.7,99.7
130	14.32	2.567	1.704	4.944	18.52	3.121	2.190	2.975	120-130	9.622	5193	99.8,99.8
140	3.482	2.093	1.732	2.862	8.542	2.631	2.522	3.707	130-140	3.823	5197	99.9,99.9
150	2.859	2.249	1.750	2.275	2.521	2.538	2.464	2.756	140-150	2.060	5199	100,100
160	3.150	3.259	1.858	2.813	2.980	2.979	2.310	2.910	150-160	1.200	5200	100,100
170	3.672	2.578	2.041	2.378	2.933	2.333	2.247	2.473	160-170	0.8276	5201	100,100
180	2.218	2.207	2.138	2.150	2.190	2.207	2.172	2.190	170-180	0.2276	5201	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:219.9V I:0.1914A P:40.00W PF:0.9504 Lamp Flux:5201x1 lm		
NAME: LED GARDEN LIGHTING	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

2440.1 lm

%lum = 46.9%

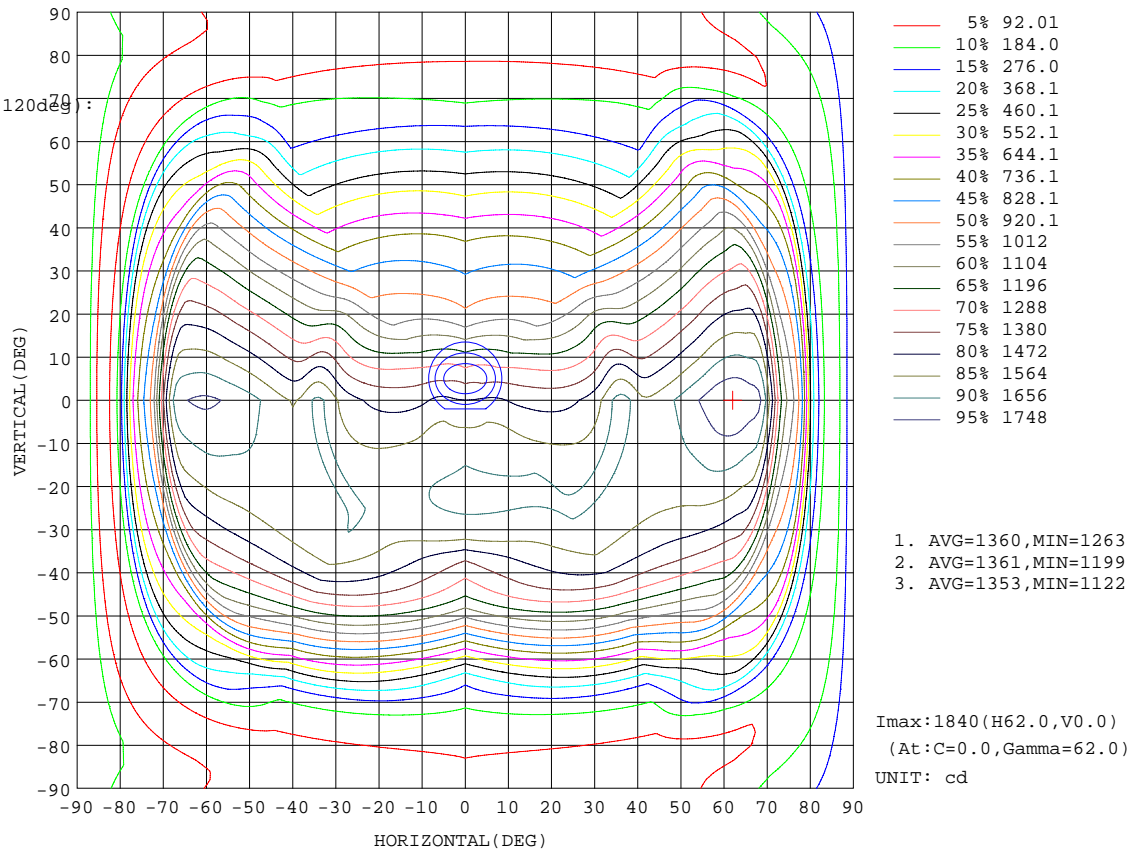
%lamp = 46.9%

Conical surface Flux(120deg):

3840.9 lm

%lum = 73.8%

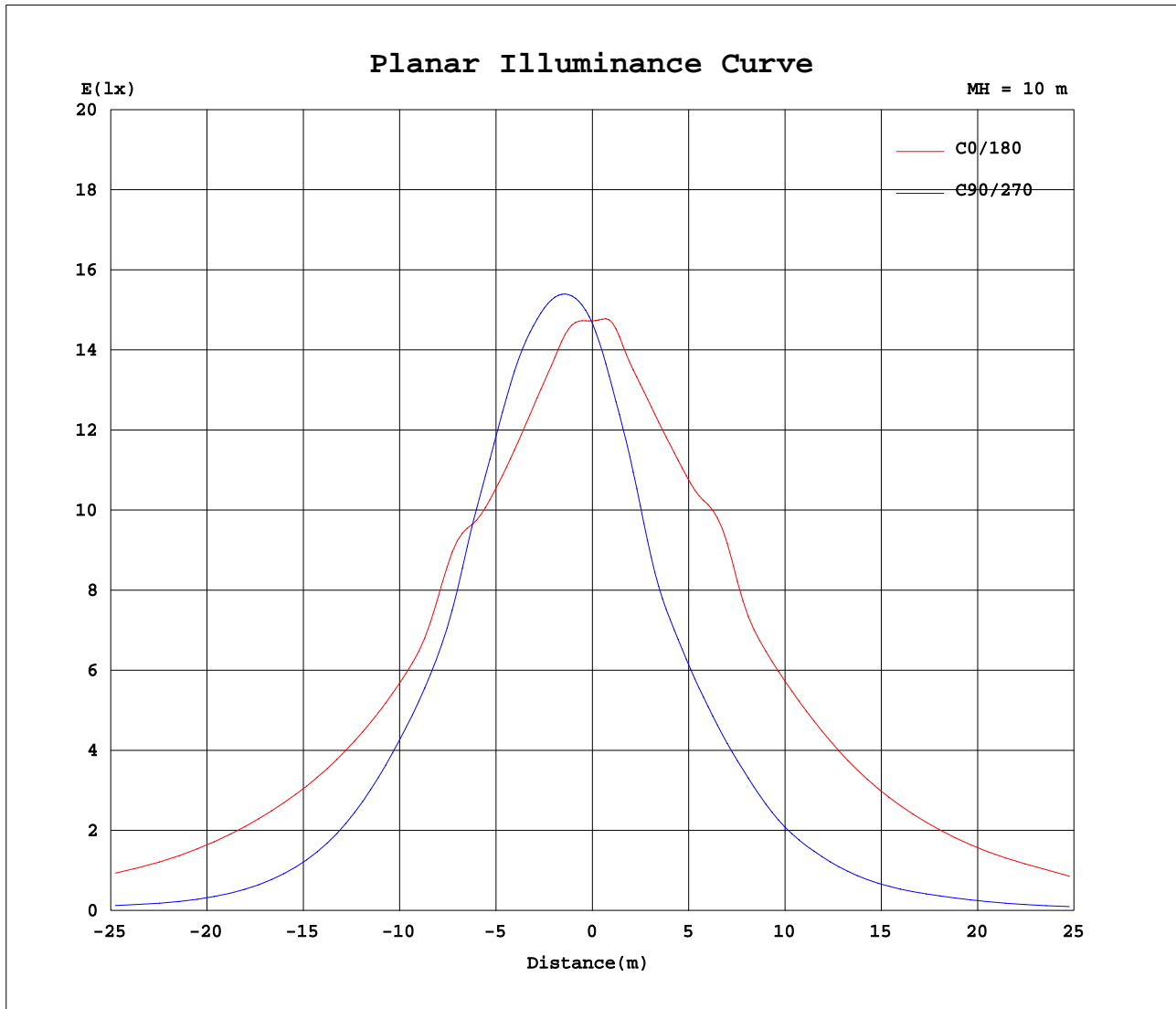
%lamp = 73.8%



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

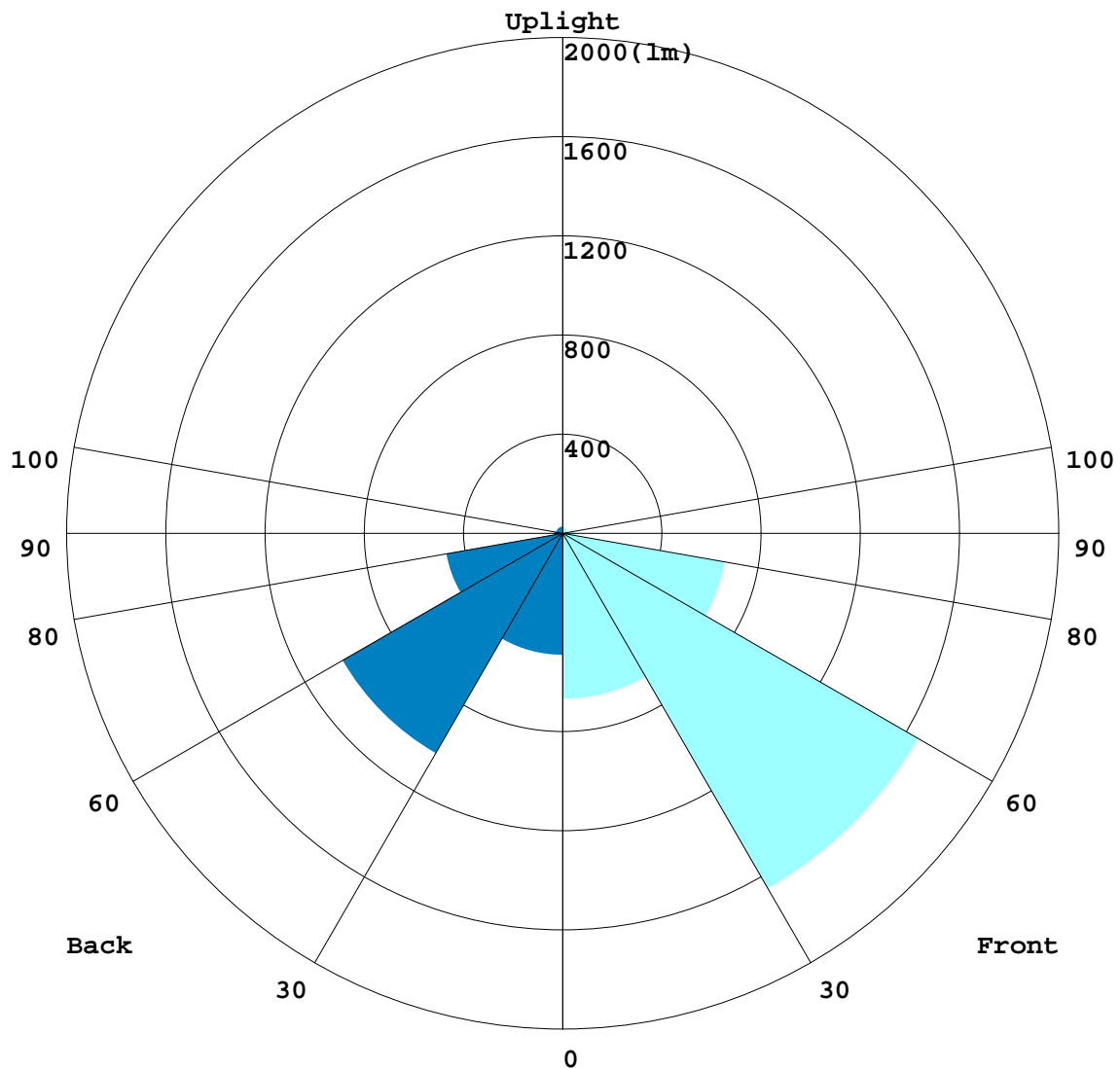


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: GLY  
 Test Date: 12 October 2019

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:0.1914A P:40.00W PF:0.9504 Lamp Flux:5201x1 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:0.1914A P:40.00W PF:0.9504 Lamp Flux:5201x1 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)	668.95	12.9
FM - Front-Medium(30-60)	1656.1	31.8
FH - Front-High(60-80)	664.9	12.8
FVH - Front-Very High(80-90)	55.395	1.1
Total Forward Light	3112	59.8

BL - Back-Low(0-30)	490.8	9.4
BM - Back-Medium(30-60)	1025.1	19.7
BH - Back-High(60-80)	476.08	9.2
BVH - Back-Very High(80-90)	36.924	0.7
Total Back Light	2089.3	40.2

UL - Uplight-Low(90-100)	77.907	1.5
UH - Uplight-High(100-180)	49.109	0.9
Total Up Light	127.02	2.4

BUG(Back,Up,Glare) Rating	B2-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3045.3	66.641	3112
Street Side	2028.9	60.375	2089.3

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:0.1914A P:40.00W PF:0.9504 Lamp Flux:5201x1 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	45	90	135	180	225	270	315										
0	1473	1468	1467	1462	1473	1468	1467	1462										
5	1486	1536	1547	1539	1492	1400	1350	1388										
10	1468	1593	1609	1586	1454	1308	1226	1301										
15	1444	1614	1655	1588	1438	1204	1073	1202										
20	1439	1639	1689	1613	1447	1092	939	1090										
25	1460	1663	1672	1633	1485	994	877	986										
30	1524	1666	1610	1648	1577	939	820	923										
35	1681	1662	1457	1659	1668	883	759	861										
40	1605	1632	1314	1657	1560	811	687	788										
45	1607	1574	1207	1610	1621	718	590	700										
50	1682	1466	1027	1518	1689	613	508	599										
55	1763	1282	777	1345	1735	503	410	490										
60	1833	1024	515	1099	1767	392	334	383										
65	1819	707	304	792	1744	298	243	293										
70	1627	391	200	438	1373	230	171	225										
75	1082	196	135	186	801	159	122	160										
80	471	102	97.4	95.8	228	77.8	81.0	82.3										
85	139	43.8	76.0	40.5	69.3	31.5	43.8	33.3										
90	335	26.1	13.3	25.8	218	21.7	11.6	24.7										
95	280	12.4	19.5	18.0	172	11.2	12.6	11.7										
100	4.95	2.01	14.3	1.64	362	3.05	9.94	2.86										
105	5.78	4.29	0.88	8.69	5.72	3.84	4.12	5.21										
110	69.2	12.6	1.35	9.05	44.7	9.71	1.25	8.91										
115	37.8	7.17	2.52	8.51	30.1	6.53	2.14	7.11										
120	39.2	6.83	1.64	7.97	41.3	5.90	1.96	6.89										
125	23.7	5.50	1.66	6.36	40.0	3.32	2.13	6.67										
130	14.3	2.57	1.70	4.94	18.5	3.12	2.19	2.98										
135	12.2	2.84	1.54	3.62	11.0	2.91	2.18	3.98										
140	3.48	2.09	1.73	2.86	8.54	2.63	2.52	3.71										
145	6.75	2.42	1.84	2.29	4.86	2.62	2.70	2.75										
150	2.86	2.25	1.75	2.28	2.52	2.54	2.46	2.76										
155	3.19	2.34	1.75	2.51	2.71	2.82	2.32	2.82										
160	3.15	3.26	1.86	2.81	2.98	2.98	2.31	2.91										
165	3.10	3.41	1.97	3.03	3.17	2.76	2.29	3.47										
170	3.67	2.58	2.04	2.38	2.93	2.33	2.25	2.47										
175	2.80	2.25	2.09	2.27	2.56	2.29	2.20	2.28										
180	2.22	2.21	2.14	2.15	2.19	2.21	2.17	2.19										

C Range: 0 - 360DEC

C Interval: 45.0DEC

Test Speed: HIGH

Temperature:25.3DEC

Operators:GLY

Test Date:12 October 2019

γ Range: 0 - 180DEC

γ Interval: 1.0DEC

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293

Humidity:65.0%

Test Distance:9.390m [K=1.0000]

Remarks: