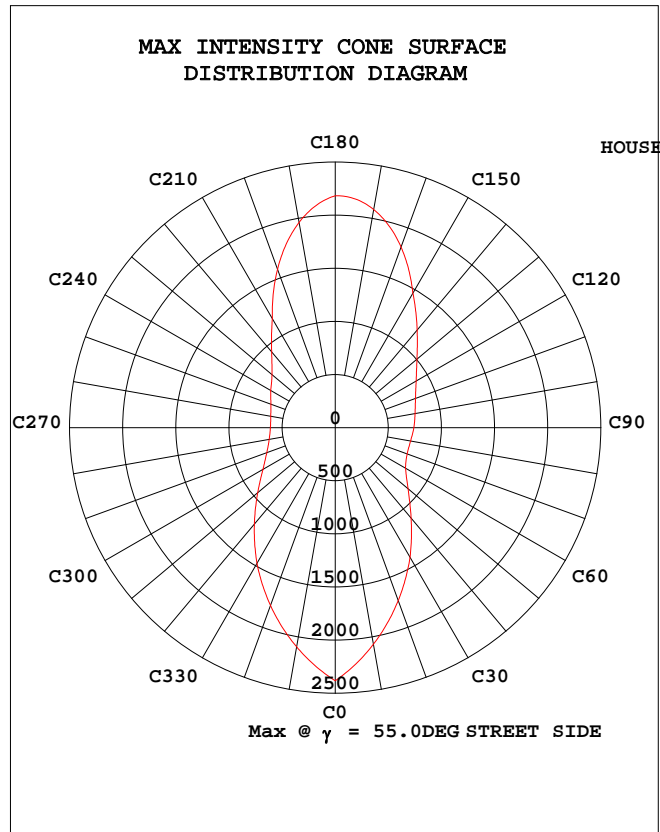
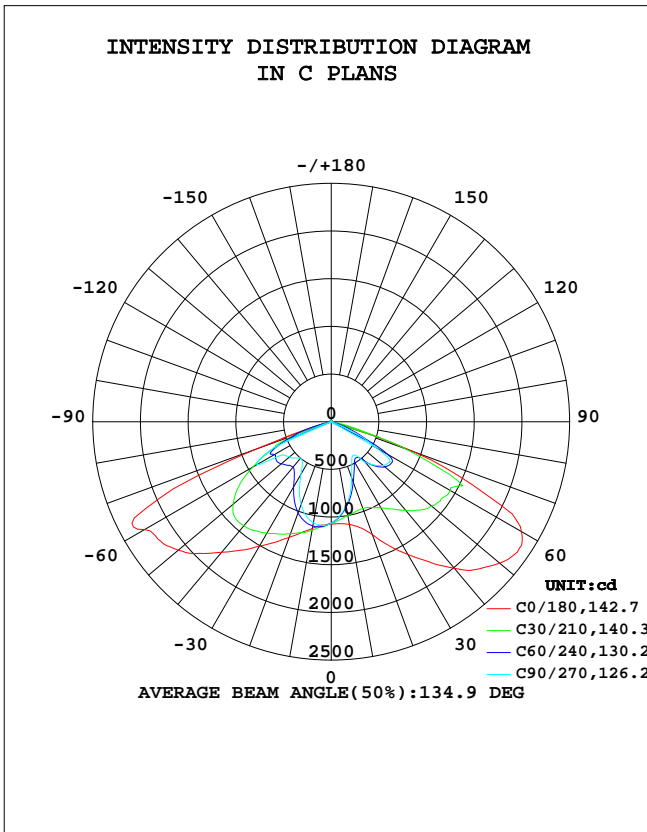


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:229.5V I:0.2224A P:47.11W PF:0.9230 Lamp Flux:4607.01x1 lm		
NAME: 01ST-SW-50W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 97.79 lm/W			
MODEL		I <sub>max</sub> (cd)	2382	η street_up(%)	0.8
NOMINAL POWER(W)	50	LOR(%)	100.0	η street_down(%)	54.4
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4607	η house_up(%)	0.6
NOMINAL FLUX(lm)	4607.01	MAXIMUM @(C,γ )	0,55.0	η house_down(%)	44.2
LAMPS INSIDE	1	η up(%)	1.4	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	230	η down(%)	98.6	SLI	15.261

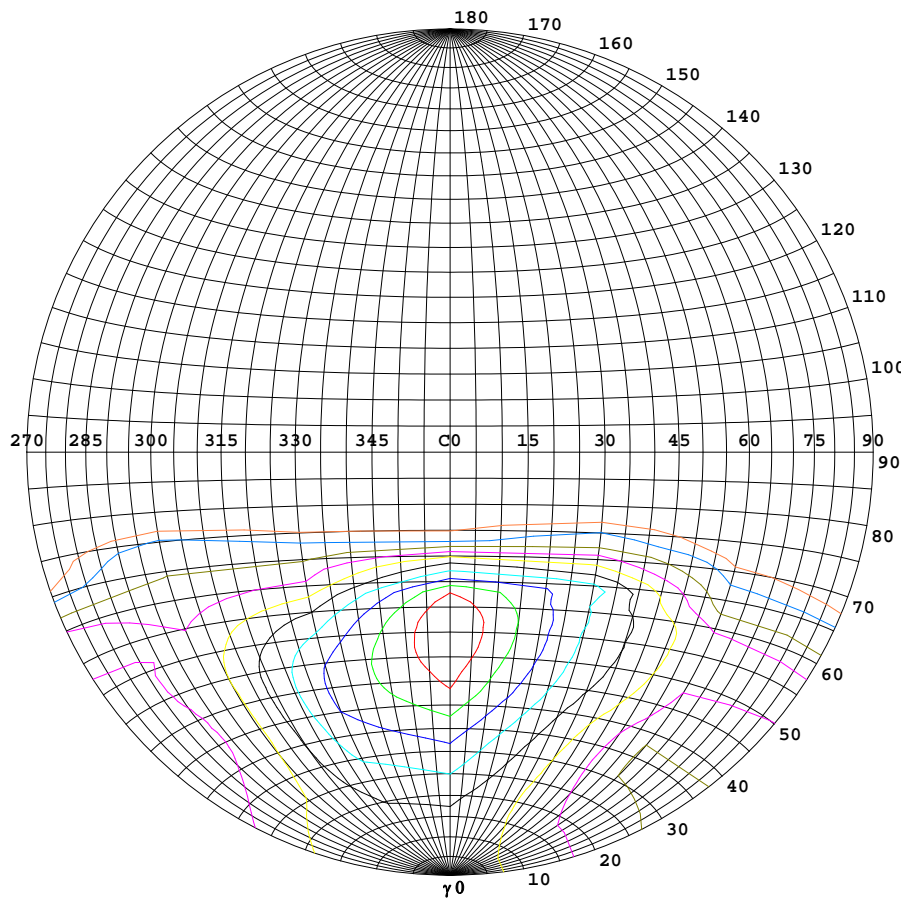


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 July 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [K=1.0000]  
 Remarks:

Note: SLI:Specific Luminaire Index

**STREETLIGHT ISOCANDELA DIAGRAM**



**Classification:**

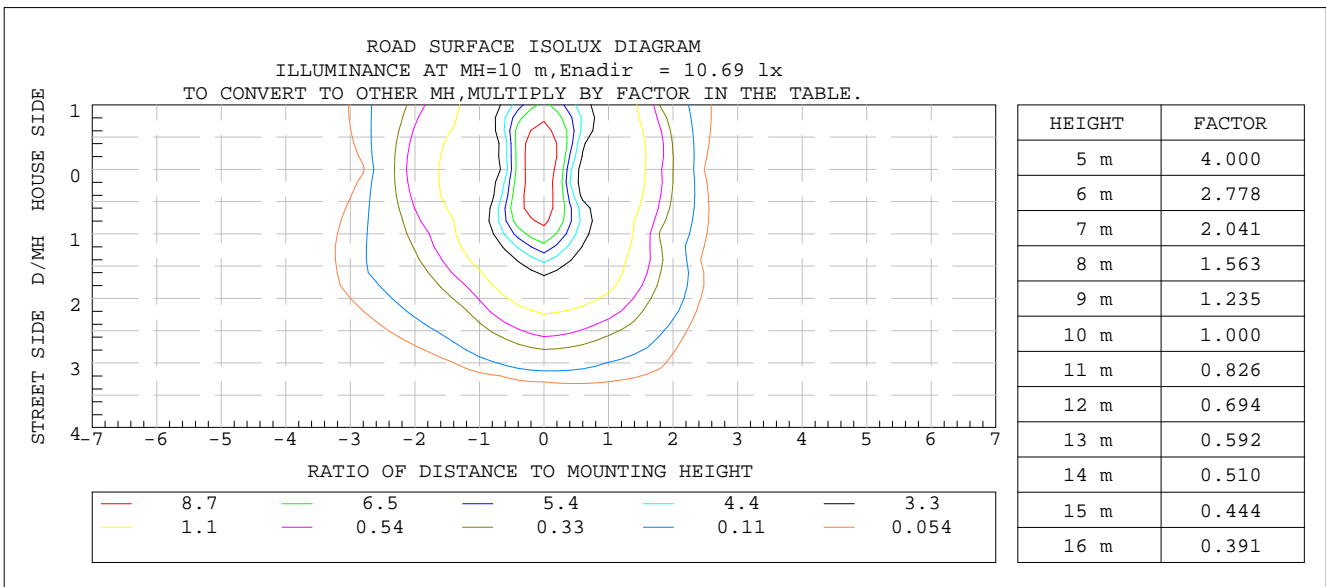
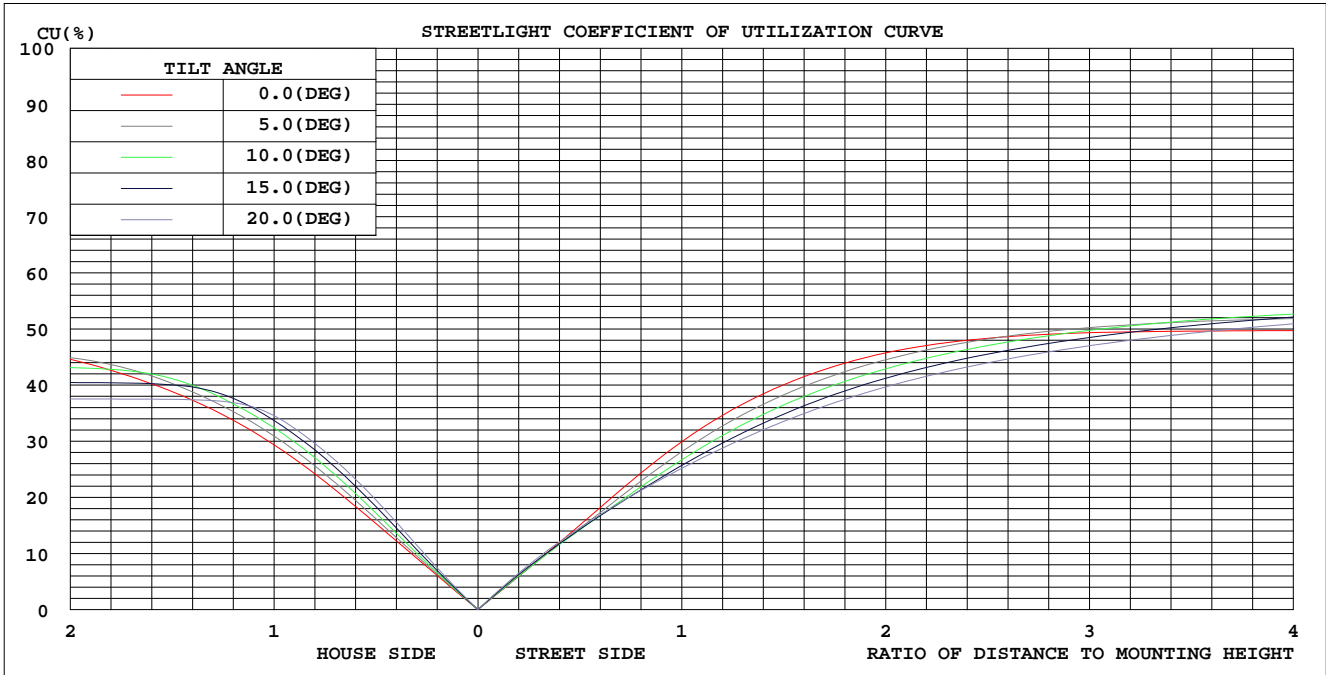
IES:Type III - Short  
 CIE:Broad - Short  
 IES:Cut-off  
 CIE:Full cut-off  
 Max.At80:5.519cd/klm  
 Max.At90:4.846cd/klm  
 Max.80-90:6.605cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2382
90%	2144
80%	1906
70%	1668
60%	1429
50%	1191
40%	953
30%	715
20%	476
10%	238
5%	119

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 July 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [K=1.0000]  
 Remarks:

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 30 July 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
Humidity: 65.0%  
Test Distance: 7.640m [K=1.0000]  
Remarks:

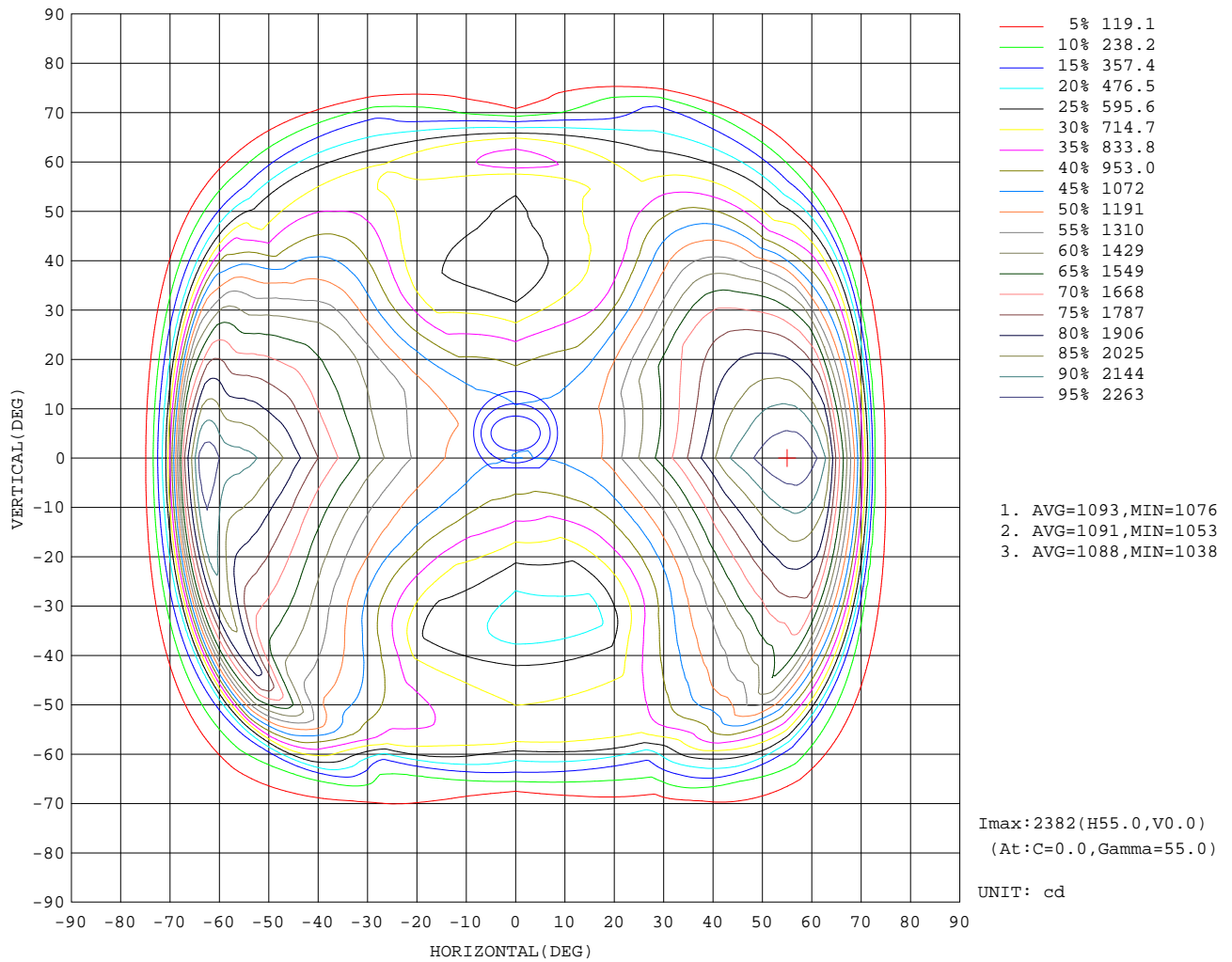
## ZONAL FLUX DIAGRAM

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1093	953.9	898.6	1004	1134	1132	1077	1093	0- 10	100.8	100.8	2.19,2.19
20	1258	821.7	629.1	945.2	1290	1134	922.6	1114	10- 20	291.4	392.2	8.51,8.51
30	1607	766.1	435.2	890.2	1506	1071	635.6	1171	20- 30	463.4	855.7	18.6,18.6
40	2006	871.0	552.5	926.8	1787	1023	497.9	1225	30- 40	644.7	1500	32.6,32.6
50	2307	1055	713.3	1133	2094	1015	571.0	1233	40- 50	896.4	2397	52,52
60	2302	1064	542.1	1154	2262	820.5	900.4	946.0	50- 60	1083	3480	75.5,75.5
70	927.4	483.3	47.40	415.5	842.0	403.9	149.9	448.6	60- 70	896.0	4376	95,95
80	25.42	15.90	3.937	14.00	19.35	10.86	6.497	17.59	70- 80	157.2	4533	98.4,98.4
90	12.70	11.13	1.229	4.489	22.33	6.379	1.772	7.904	80- 90	9.841	4543	98.6,98.6
100	12.55	5.383	2.824	4.507	11.13	5.536	2.667	6.315	90-100	7.674	4551	98.8,98.8
110	12.64	6.363	4.627	7.280	13.31	8.483	4.740	8.972	100-110	7.139	4558	98.9,98.9
120	15.41	9.008	6.285	10.33	16.65	10.71	6.552	11.41	110-120	9.357	4567	99.1,99.1
130	16.70	11.03	7.581	12.09	18.14	11.72	8.013	13.26	120-130	10.34	4577	99.4,99.4
140	17.11	12.53	9.288	12.91	18.05	12.58	9.151	14.31	130-140	9.839	4587	99.6,99.6
150	15.72	13.46	10.92	13.28	16.44	12.61	10.62	14.03	140-150	8.371	4596	99.8,99.8
160	14.63	13.94	12.34	13.45	15.05	12.50	11.75	13.69	150-160	6.196	4602	99.9,99.9
170	14.06	14.00	13.44	13.66	14.28	13.06	12.92	13.68	160-170	3.821	4606	100,100
180	14.15	13.95	13.95	13.95	14.19	13.95	13.94	13.96	170-180	1.313	4607	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:30 July 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.640m [K=1.0000]  
Remarks:

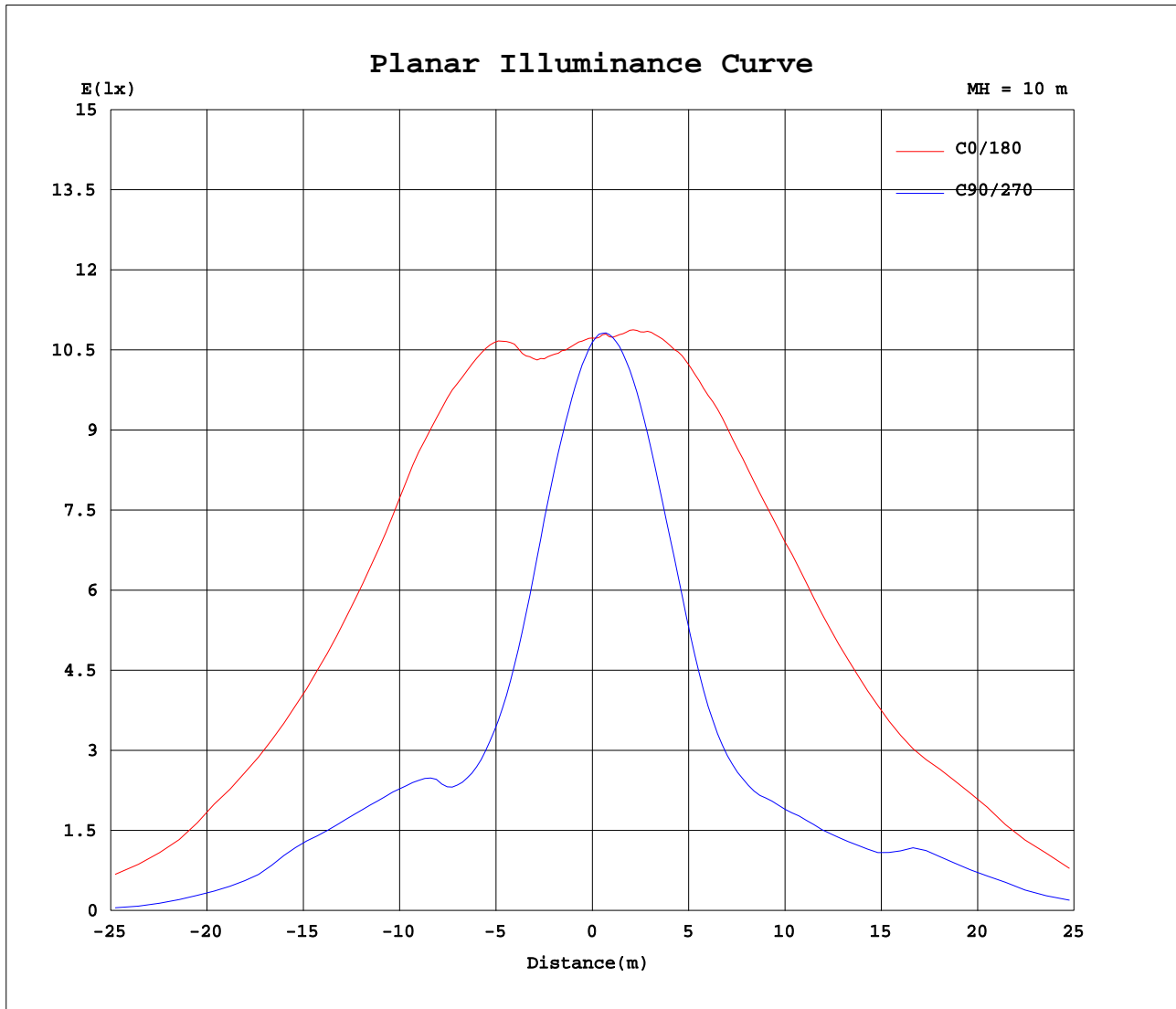
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 30 July 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



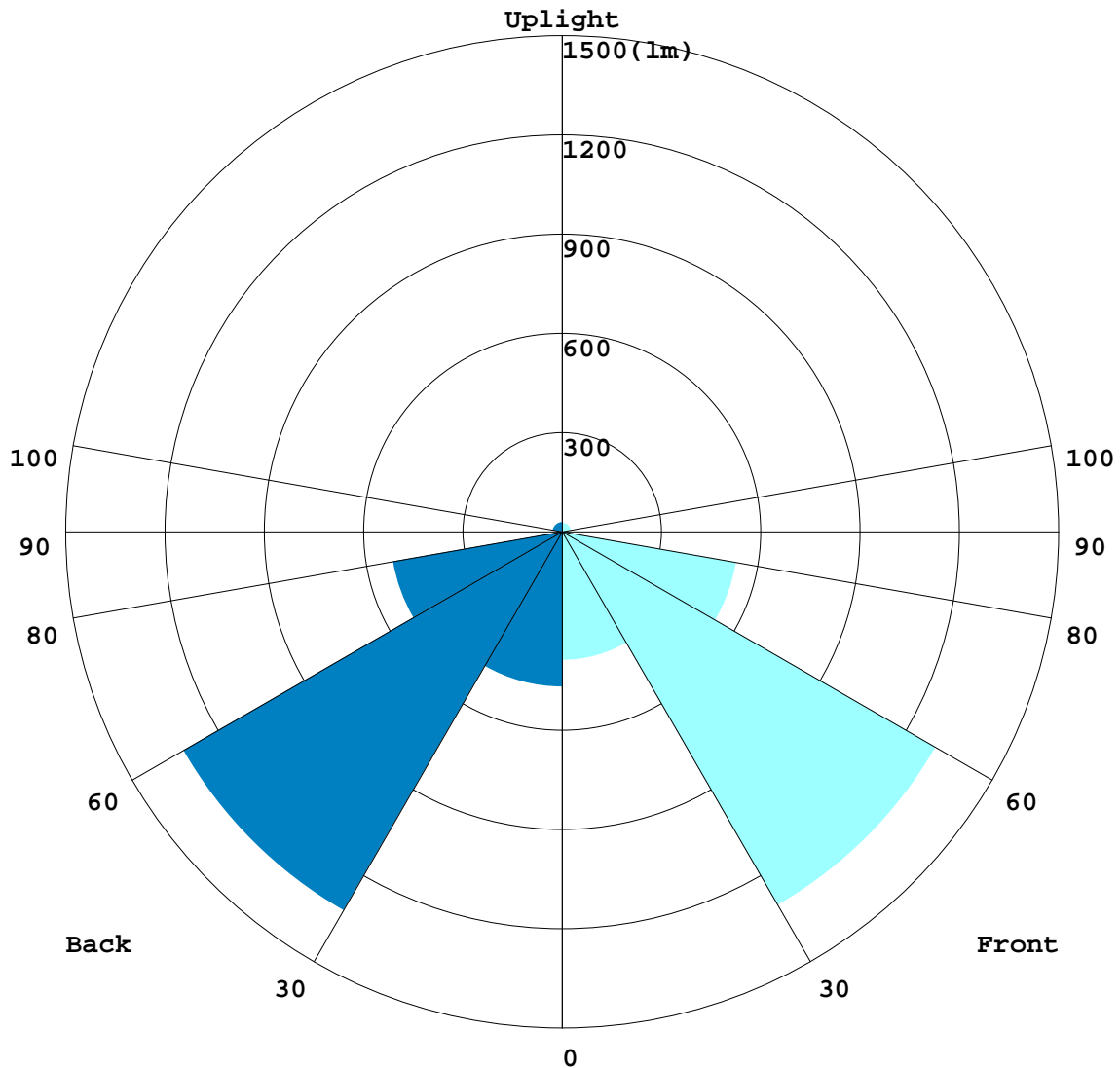
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 30 July 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks:

LCS REPORT

Test:U:229.5V I:0.2224A P:47.11W PF:0.9230 Lamp Flux:4607.01x1 lm		
NAME: 01ST-SW-50W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:30 July 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [K=1.0000]  
 Remarks:

## BUG REPORT

Test:U:229.5V I:0.2224A P:47.11W PF:0.9230 Lamp Flux:4607.01x1 lm		
NAME: 01ST-SW-50W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

## IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	387.69	8.4
FM - Front-Medium(30-60)	1302.6	28.3
FH - Front-High(60-80)	534.11	11.6
FVH - Front-Very High(80-90)	4.9824	0.1
Total Forward Light	2260.3	49.1

BL - Back-Low(0-30)	467.98	10.2
BM - Back-Medium(30-60)	1321.7	28.7
BH - Back-High(60-80)	519.07	11.3
BVH - Back-Very High(80-90)	4.8585	0.1
Total Back Light	2346.7	50.9

UL - Uplight-Low(90-100)	7.6744	0.2
UH - Uplight-High(100-180)	56.377	1.2
Total Up Light	64.051	1.4

BUG(Back,Up,Glare) Rating	B2-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2313.6	33.156	2346.7
Street Side	2229.4	30.895	2260.3

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:30 July 2019

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.640m [K=1.0000]  
Remarks:





LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1072	1068	1065	1064	1063	1063	1072	1068	1065	1064	1063	1063							
5	1074	1032	1000	995	1022	1052	1087	1109	1102	1091	1087	1080							
10	1093	999	909	899	951	1057	1134	1153	1111	1077	1087	1099							
15	1147	978	799	773	883	1073	1203	1205	1082	1022	1067	1133							
20	1258	968	676	629	797	1094	1290	1250	1018	923	1029	1200							
25	1433	994	570	509	706	1114	1396	1298	915	791	961	1316							
30	1607	1044	488	435	630	1150	1506	1349	792	636	889	1453							
35	1796	1116	460	428	575	1197	1645	1393	677	528	823	1573							
40	2006	1214	528	552	589	1264	1787	1425	622	498	782	1668							
45	2185	1311	659	645	728	1339	1952	1425	646	537	782	1710							
50	2307	1376	734	713	843	1423	2094	1343	688	571	809	1656							
55	2382	1409	765	741	880	1462	2183	1185	703	611	786	1474							
60	2302	1445	684	542	798	1510	2262	950	691	900	708	1184							
65	1761	1464	339	273	300	1775	2132	684	650	704	612	777							
70	927	816	150	47.4	183	648	842	409	399	150	450	447							
75	113	241	20.0	4.57	31.8	155	116	114	146	15.5	261	123							
80	25.4	25.2	6.59	3.94	10.6	17.4	19.4	8.12	13.6	6.50	22.0	13.2							
85	15.7	10.8	4.14	2.18	7.78	5.91	15.3	9.24	3.39	2.51	4.33	13.1							
90	12.7	18.9	3.37	1.23	3.58	5.40	22.3	10.3	2.42	1.77	3.85	12.0							
95	14.5	13.9	3.14	1.98	3.03	5.40	15.8	8.42	2.66	1.78	3.91	10.7							
100	12.5	7.71	3.06	2.82	3.31	5.70	11.1	7.62	3.45	2.67	4.26	8.37							
105	10.7	6.22	3.80	3.74	4.30	6.93	10.8	9.53	4.60	3.72	5.40	9.50							
110	12.6	7.93	4.79	4.63	5.45	9.11	13.3	11.2	5.72	4.74	6.69	11.3							
115	14.3	9.63	5.82	5.48	6.65	11.1	15.4	12.5	6.75	5.67	7.96	12.5							
120	15.4	11.2	6.80	6.28	7.79	12.9	16.7	13.8	7.67	6.55	9.18	13.7							
125	16.3	12.5	7.71	7.03	8.83	13.9	17.6	14.6	8.43	7.40	10.3	14.6							
130	16.7	13.5	8.51	7.58	9.88	14.3	18.1	14.5	8.96	8.01	11.3	15.3							
135	17.0	14.3	9.32	8.24	10.8	14.3	18.3	14.7	9.43	8.46	11.8	16.0							
140	17.1	14.7	10.3	9.29	11.5	14.3	18.0	15.0	10.1	9.15	12.2	16.5							
145	16.4	14.9	11.2	10.2	11.9	14.4	17.3	14.5	10.8	9.93	12.5	16.0							
150	15.7	15.0	11.9	10.9	12.3	14.3	16.4	14.0	11.2	10.6	12.8	15.3							
155	15.1	15.0	12.5	11.7	12.6	14.2	15.6	13.6	11.4	11.2	12.9	14.8							
160	14.6	14.8	13.1	12.3	12.8	14.1	15.1	13.3	11.7	11.8	13.0	14.4							
165	14.3	14.6	13.5	12.9	13.1	13.9	14.6	13.2	12.1	12.3	13.2	14.1							
170	14.1	14.3	13.7	13.4	13.4	13.9	14.3	13.3	12.8	12.9	13.5	13.9							
175	14.1	14.1	13.9	13.8	13.8	13.9	14.1	13.6	13.5	13.5	13.7	13.9							
180	14.2	14.0	13.9	13.9	13.9	14.0	14.2	14.0	14.0	13.9	13.9	14.0							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 30 July 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks: