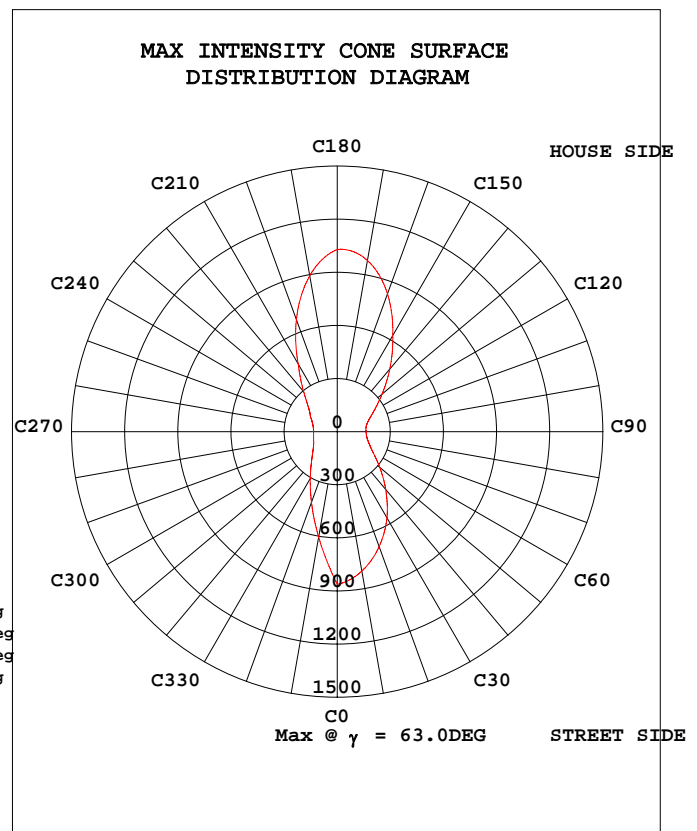
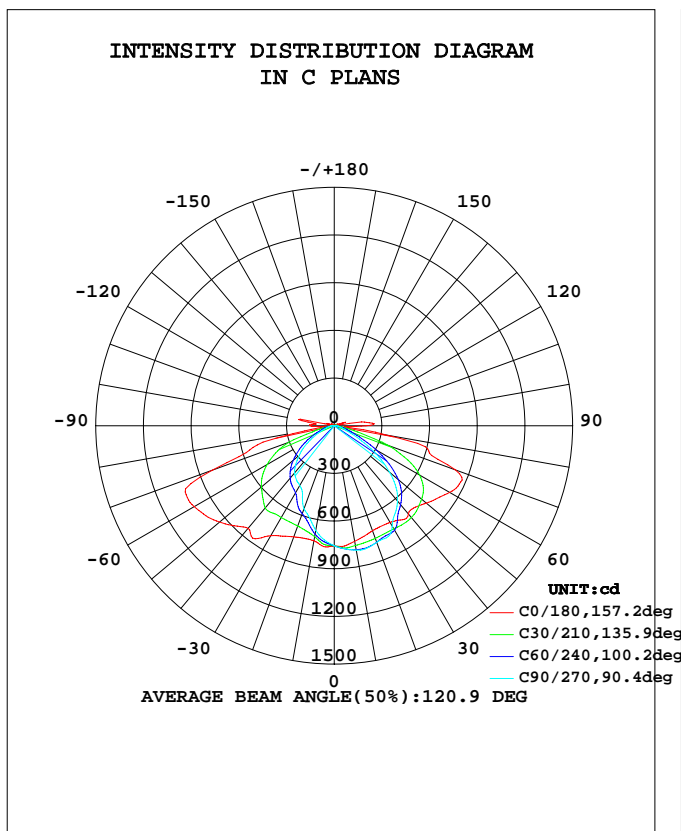


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.7V I:0.0768A P:16.06W PF:0.9514 Lamp Flux:2640x1 lm		
NAME: LED STREET LIGHT	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 160.28 lm/W			
MODEL	045-16W	Imax(cd)	1029	η street_up(%)	1.3
NOMINAL POWER(W)	16	LOR(%)	97.5	η street_down(%)	50.7
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2574	η house_up(%)	1.1
NOMINAL FLUX(lm)	2640	MAXIMUM @(C, γ)	180,63.0	η house_down(%)	44.4
LAMPS INSIDE	1	η up(%)	2.4	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	219.8	η down(%)	95.1	SLI	19.021



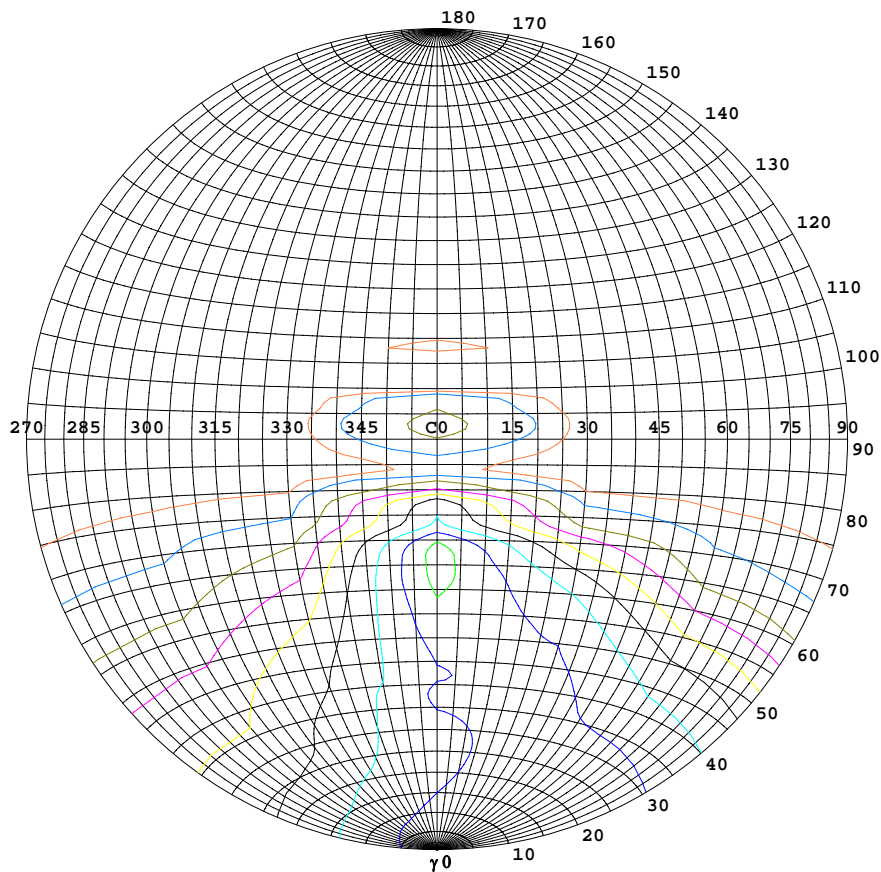
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GLY
Test Date:16 January 2021

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:219.7V I:0.0768A P:16.06W PF:0.9514 Lamp Flux:2640x1 lm		
NAME: LED STREET LIGHT	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



Classification:

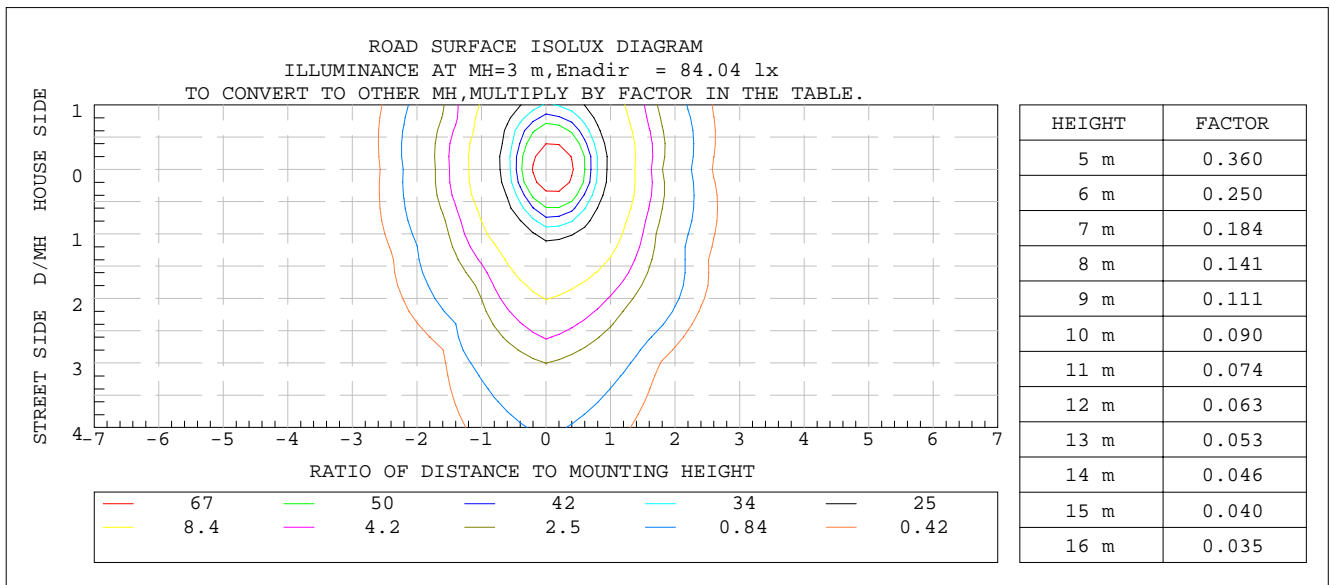
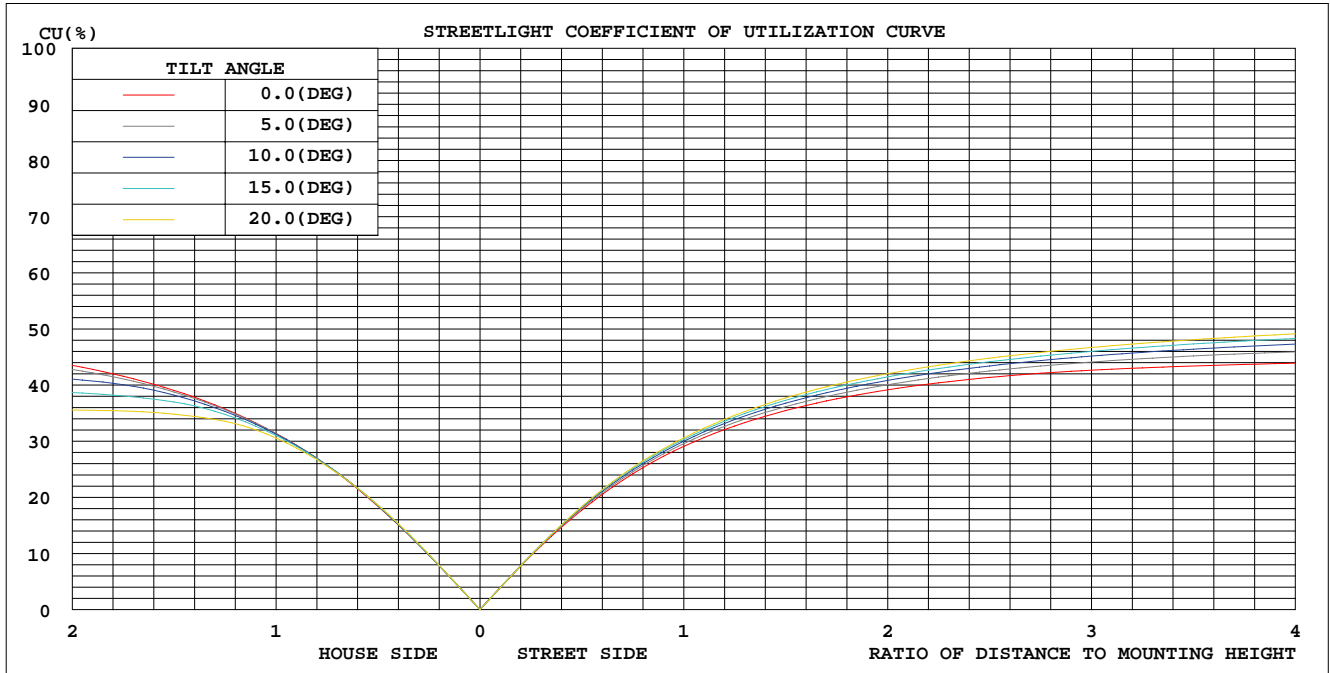
IES:Type V - Short
 CIE:Narrow - Intermediate
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:121.9cd/klm
 Max.At90:75.62cd/klm
 Max.80-90:121.9cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	1029
90%	926
80%	823
70%	720
60%	618
50%	515
40%	412
30%	309
20%	206
10%	103
5%	51

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:GLY
 Test Date:16 January 2021

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: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: GLY
Test Date: 16 January 2021

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:219.7V I:0.0768A P:16.06W PF:0.9514 Lamp Flux:2640x1 lm		
NAME: LED STREET LIGHT	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	Φ lum,lamp
10	738.5	778.8	794.8	778.0	735.8	701.1	669.0	697.6	0- 10	71.54	71.54	2.78,2.71
20	703.8	767.3	780.6	777.5	744.2	630.5	556.7	599.5	10- 20	201.9	273.5	10.6,10.4
30	703.0	754.4	730.9	798.1	798.8	577.5	434.0	510.5	20- 30	313.3	586.8	22.8,22.2
40	726.4	702.1	618.9	765.5	843.3	554.0	387.9	456.3	30- 40	406.6	993.4	38.6,37.6
50	757.3	621.9	454.5	682.9	942.6	467.0	286.1	378.8	40- 50	462.1	1456	56.6,55.1
60	838.4	464.5	218.9	508.0	1018	350.5	166.9	267.1	50- 60	457.5	1913	74.3,72.5
70	810.2	236.4	73.29	250.6	815.4	201.6	70.88	144.4	60- 70	374.3	2287	88.9,86.6
80	321.7	43.83	31.76	37.52	188.6	46.27	32.93	43.72	70- 80	182.7	2470	96,93.6
90	199.6	15.69	6.035	12.90	143.2	12.31	4.880	11.94	80- 90	39.84	2510	97.5,95.1
100	2.501	3.154	5.082	6.021	229.0	5.497	4.917	2.024	90-100	39.79	2550	99.1,96.6
110	46.01	5.109	0.5204	4.166	31.14	4.046	0.5760	3.978	100-110	9.726	2559	99.4,96.9
120	18.35	2.099	0.6975	3.411	20.37	3.558	0.8406	3.139	110-120	6.470	2566	99.7,97.2
130	5.295	1.432	0.8350	2.258	6.203	1.990	1.029	2.012	120-130	3.580	2569	99.8,97.3
140	3.673	1.482	1.132	1.335	3.217	1.463	1.378	1.672	130-140	1.747	2571	99.9,97.4
150	3.036	1.449	1.098	1.338	2.385	1.582	1.447	1.581	140-150	1.153	2572	100,97.4
160	1.458	1.744	1.029	1.458	1.786	1.649	1.321	1.818	150-160	0.7125	2573	100,97.5
170	1.711	1.472	1.143	1.309	1.578	1.455	1.292	1.472	160-170	0.4391	2574	100,97.5
180	1.263	1.289	1.292	1.263	1.269	1.298	1.281	1.281	170-180	0.1297	2574	100,97.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GLY
Test Date:16 January 2021

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:219.7V I:0.0768A P:16.06W PF:0.9514 Lamp Flux:2640x1 lm		
NAME: LED STREET LIGHT	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

1220.7 lm

%lum = 47.4%

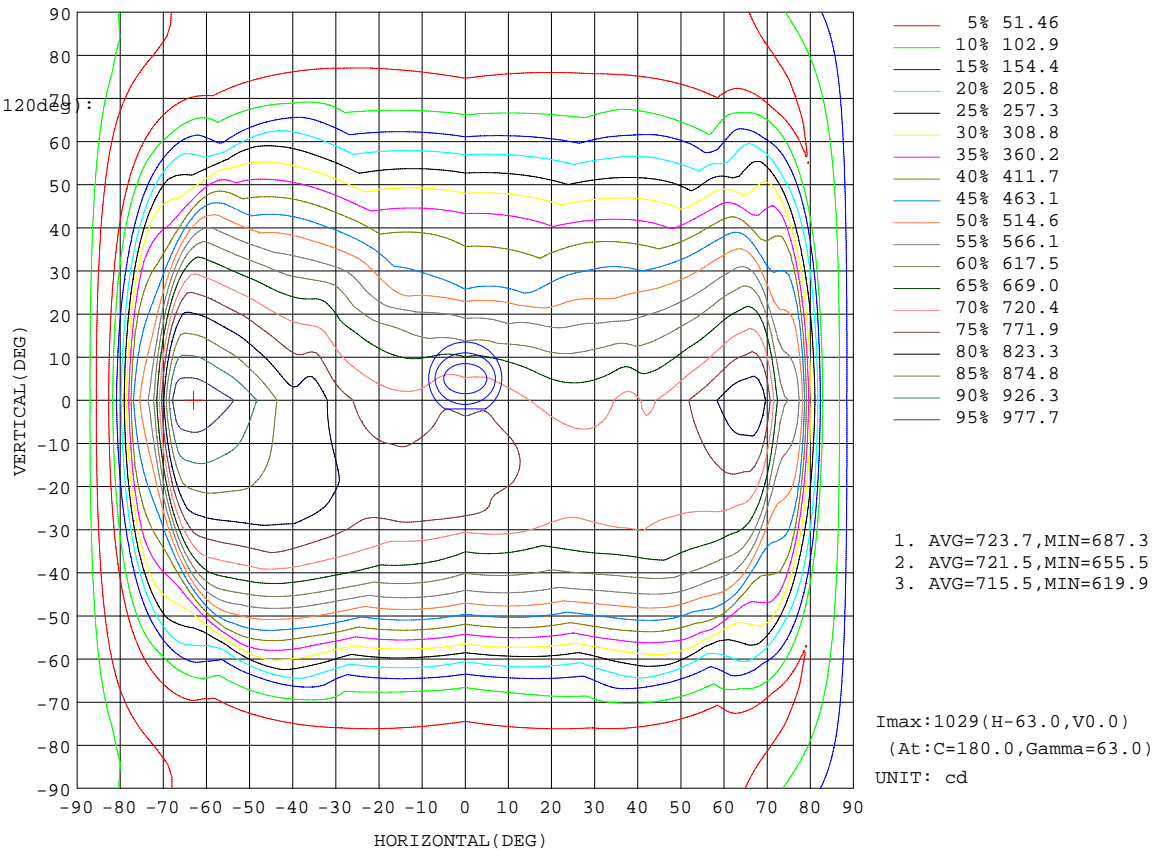
%lamp = 46.2%

Conical surface Flux(120deg):

1913.1 lm

%lum = 74.3%

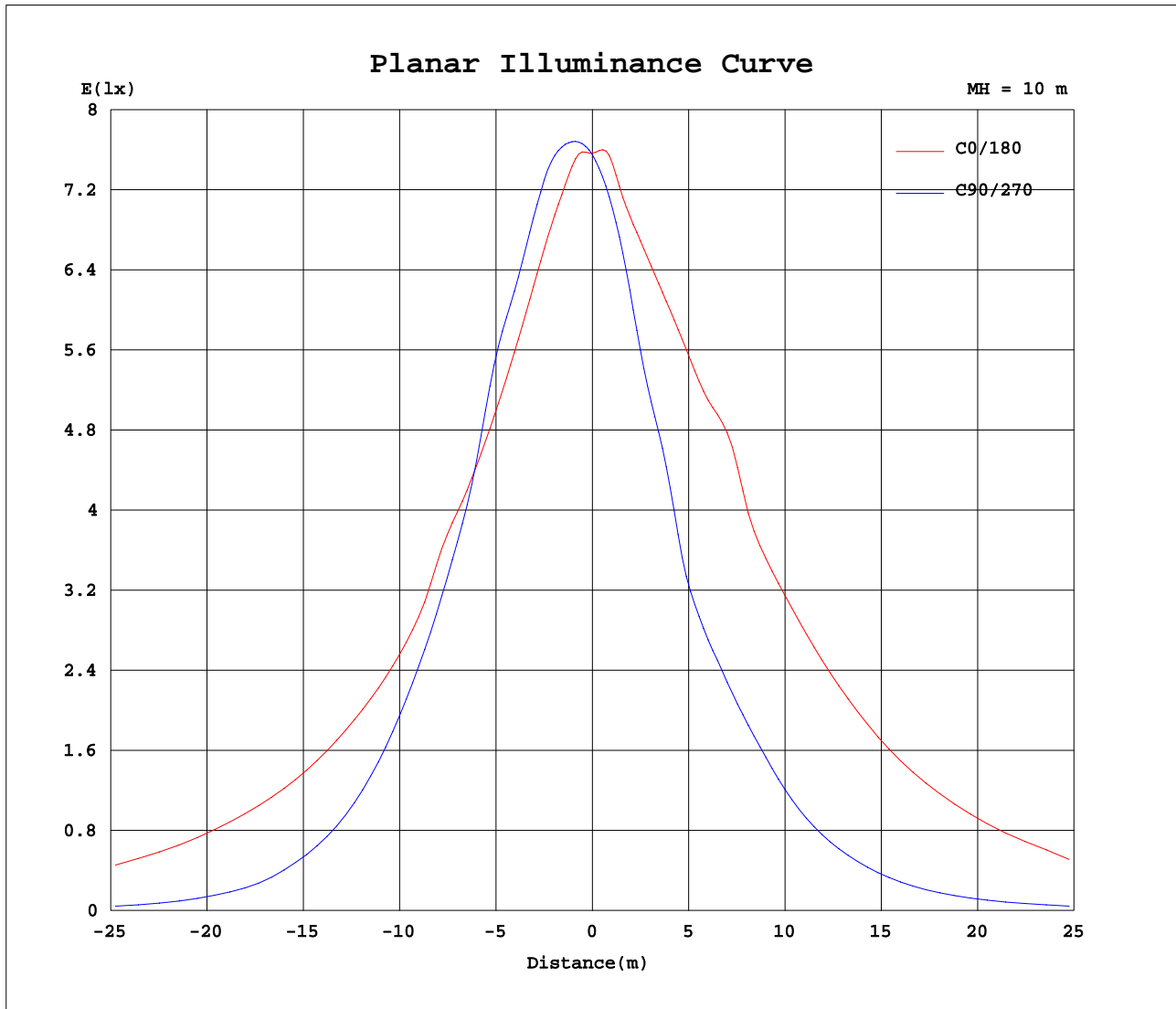
%lamp = 72.5%



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GLY
Test Date:16 January 2021

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

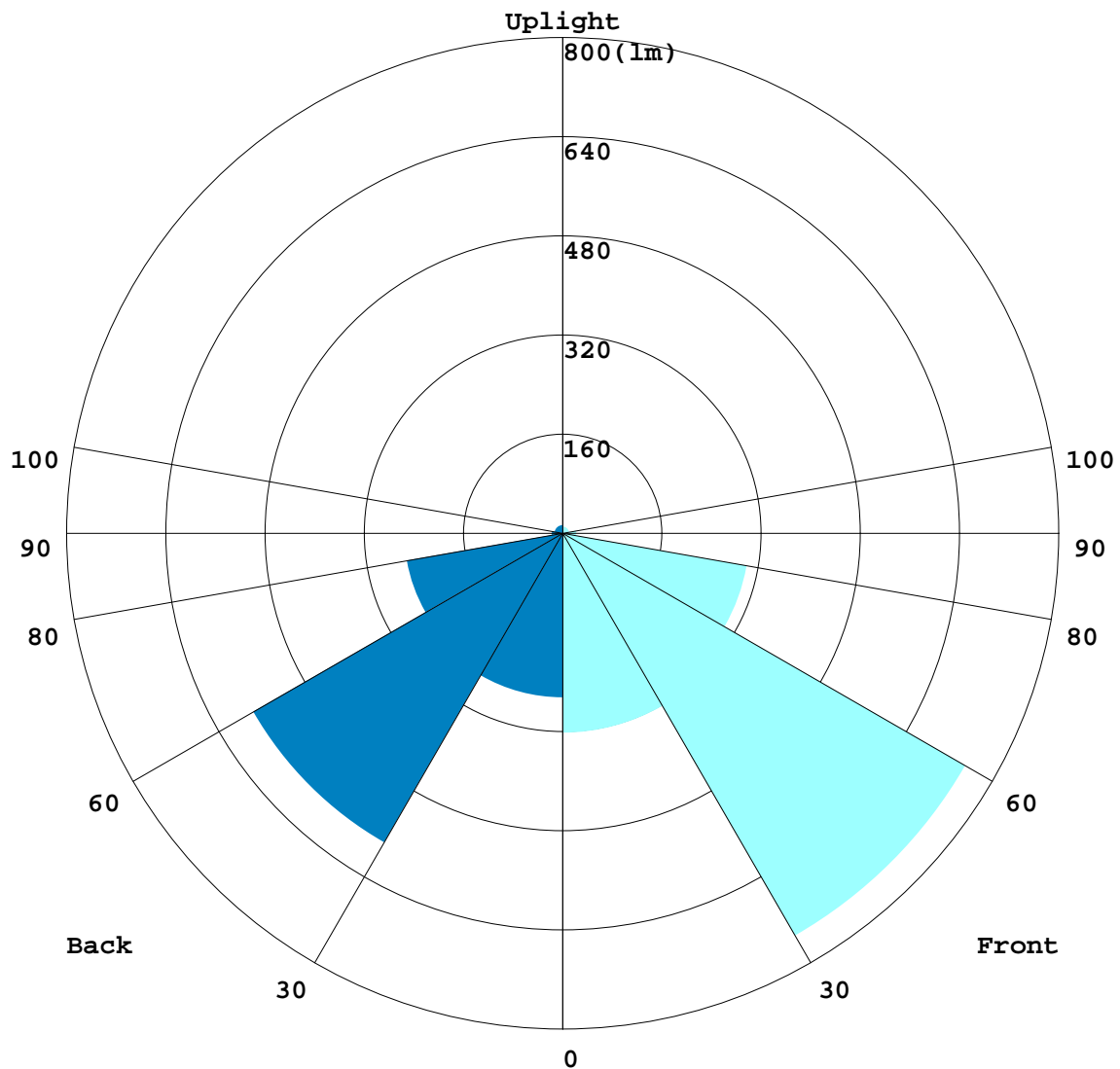


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: GLY
 Test Date: 16 January 2021

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:219.7V I:0.0768A P:16.06W PF:0.9514 Lamp Flux:2640x1 lm		
NAME: LED STREET LIGHT	TYPE:LED	WEIGHT:5
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:GLY
 Test Date:16 January 2021

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:219.7V I:0.0768A P:16.06W PF:0.9514 Lamp Flux:2640x1 lm		
NAME: LED STREET LIGHT	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)	321.9	12.5
FM - Front-Medium(30-60)	750.09	29.1
FH - Front-High(60-80)	301.71	11.7
FVH - Front-Very High(80-90)	21.935	0.9
Total Forward Light	1428.9	55.5

BL - Back-Low(0-30)	264.93	10.3
BM - Back-Medium(30-60)	576.18	22.4
BH - Back-High(60-80)	255.28	9.9
BVH - Back-Very High(80-90)	17.907	0.7
Total Back Light	1144.8	44.5

UL - Uplight-Low(90-100)	39.795	1.5
UH - Uplight-High(100-180)	23.957	0.9
Total Up Light	63.752	2.5

BUG(Back,Up,Glare) Rating	B1-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1395.6	33.226	1428.9
Street Side	1114.3	30.526	1144.8

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GLY
Test Date:16 January 2021

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:219.7V I:0.0768A P:16.06W PF:0.9514 Lamp Flux:2640x1 lm		
NAME: LED STREET LIGHT	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	757	756	756	755	755	754	757	756	756	755	755	754							
5	759	772	778	777	780	774	763	749	733	721	728	742							
10	738	766	792	795	795	762	736	709	693	669	686	709							
15	720	760	795	797	791	764	733	685	633	601	619	672							
20	704	755	780	781	782	772	744	672	589	557	568	631							
25	698	749	765	778	787	788	767	667	547	474	515	598							
30	703	750	759	731	787	809	799	667	488	434	444	577							
35	725	756	697	670	734	826	868	672	462	415	419	551							
40	726	755	650	619	692	839	843	676	432	388	393	520							
45	724	742	600	551	636	832	890	637	390	342	355	496							
50	757	718	526	455	554	812	943	598	336	286	302	455							
55	795	685	423	343	446	770	987	553	276	230	246	407							
60	838	620	309	219	325	691	1018	487	214	167	188	347							
65	868	511	191	127	195	576	1028	407	153	114	135	276							
70	810	359	114	73.3	105	396	815	305	98.4	70.9	91.3	197							
75	616	154	71.1	48.8	69.7	130	529	127	70.1	50.0	65.8	101							
80	322	51.9	35.7	31.8	35.3	39.8	189	51.3	41.2	32.9	38.5	48.9							
85	70.0	21.5	14.2	16.5	13.6	15.7	38.5	16.0	16.3	19.2	16.5	17.2							
90	200	22.6	8.82	6.04	7.77	18.0	143	17.1	7.48	4.88	7.89	16.0							
95	222	19.3	6.09	8.83	6.15	17.8	119	17.7	4.65	5.47	4.58	12.7							
100	2.50	1.05	5.26	5.08	5.63	6.41	229	8.10	2.90	4.92	3.16	0.89							
105	2.27	13.4	1.28	2.30	0.86	15.1	2.13	4.36	1.02	0.44	0.84	7.16							
110	46.0	8.47	1.75	0.52	1.38	6.96	31.1	7.14	0.95	0.58	1.96	5.99							
115	21.4	7.93	1.51	0.65	1.03	7.52	20.0	5.78	0.95	1.03	1.42	4.86							
120	18.3	3.35	0.85	0.70	0.99	5.83	20.4	6.08	1.04	0.84	1.37	4.91							
125	11.0	4.53	1.10	0.77	0.96	5.36	17.8	3.42	1.12	0.97	1.49	3.00							
130	5.30	1.66	1.21	0.83	1.37	3.14	6.20	2.83	1.16	1.03	1.68	2.34							
135	3.43	3.67	1.46	0.94	1.33	2.72	4.87	2.36	1.36	1.21	1.68	3.17							
140	3.67	1.49	1.48	1.13	1.38	1.29	3.22	1.50	1.43	1.38	1.76	1.58							
145	1.73	2.92	1.40	1.19	1.41	2.12	1.59	2.04	1.49	1.49	1.73	2.75							
150	3.04	1.52	1.38	1.10	1.34	1.33	2.39	1.61	1.56	1.45	1.59	1.57							
155	1.69	1.21	1.49	1.12	1.43	1.36	1.67	1.46	1.64	1.39	1.76	1.48							
160	1.46	1.93	1.56	1.03	1.38	1.54	1.79	1.73	1.57	1.32	1.71	1.92							
165	2.01	1.84	1.30	1.06	1.19	1.48	1.69	1.72	1.41	1.29	1.46	1.88							
170	1.71	1.69	1.25	1.14	1.21	1.41	1.58	1.51	1.40	1.29	1.39	1.55							
175	1.47	1.37	1.29	1.21	1.24	1.23	1.39	1.38	1.39	1.29	1.31	1.35							
180	1.26	1.29	1.29	1.29	1.24	1.29	1.27	1.29	1.30	1.28	1.27	1.29							

C Range: 0 - 360DEG

C Interval: 30.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:GLY

Test Date:16 January 2021

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: