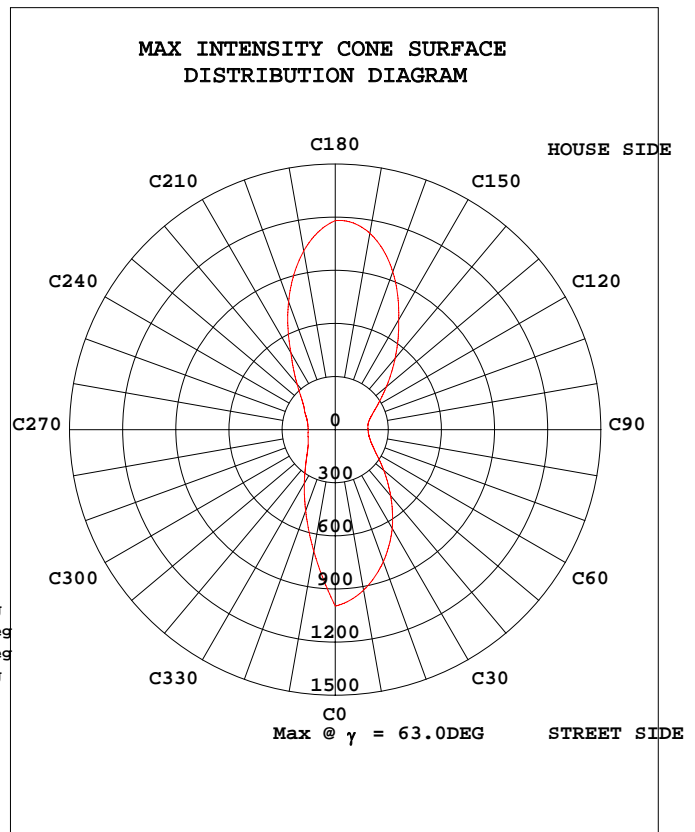
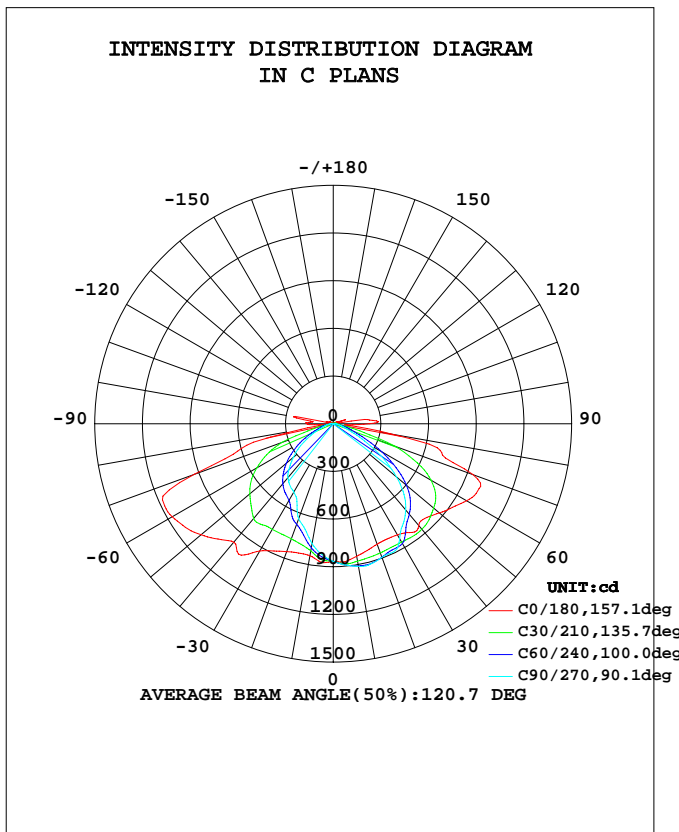


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.7V I:0.0873A P:18.47W PF:0.9626 Lamp Flux:3000x1 lm		
NAME: LED STREET LIGHT	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 159.71 lm/W			
MODEL	045-18W	Imax(cd)	1181	η street_up(%)	1.3
NOMINAL POWER(W)	18	LOR(%)	98.3	η street_down(%)	51.2
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2950	η house_up(%)	1.1
NOMINAL FLUX(lm)	3000	MAXIMUM @(C, γ)	180,63.0	η house_down(%)	44.7
LAMPS INSIDE	1	η up(%)	2.4	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	219.8	η down(%)	95.9	SLI	19.216



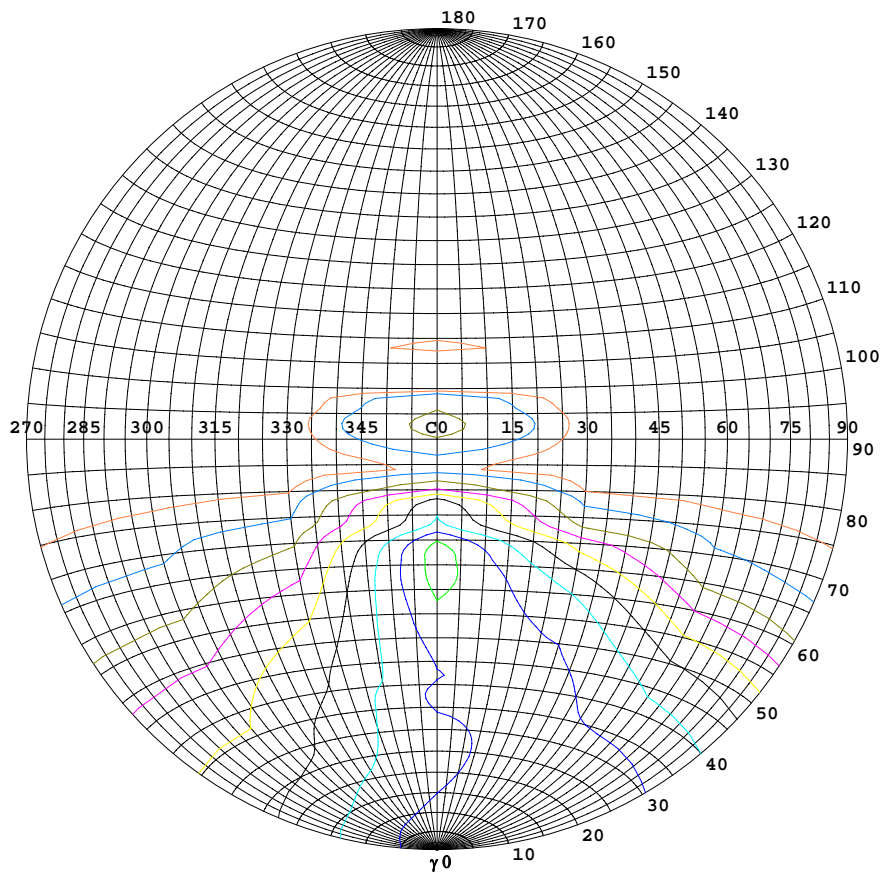
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GLY
Test Date:16 January 2021

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:0.0873A P:18.47W PF:0.9626 Lamp Flux:3000x1 lm		
NAME: LED STREET LIGHT	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



Classification:

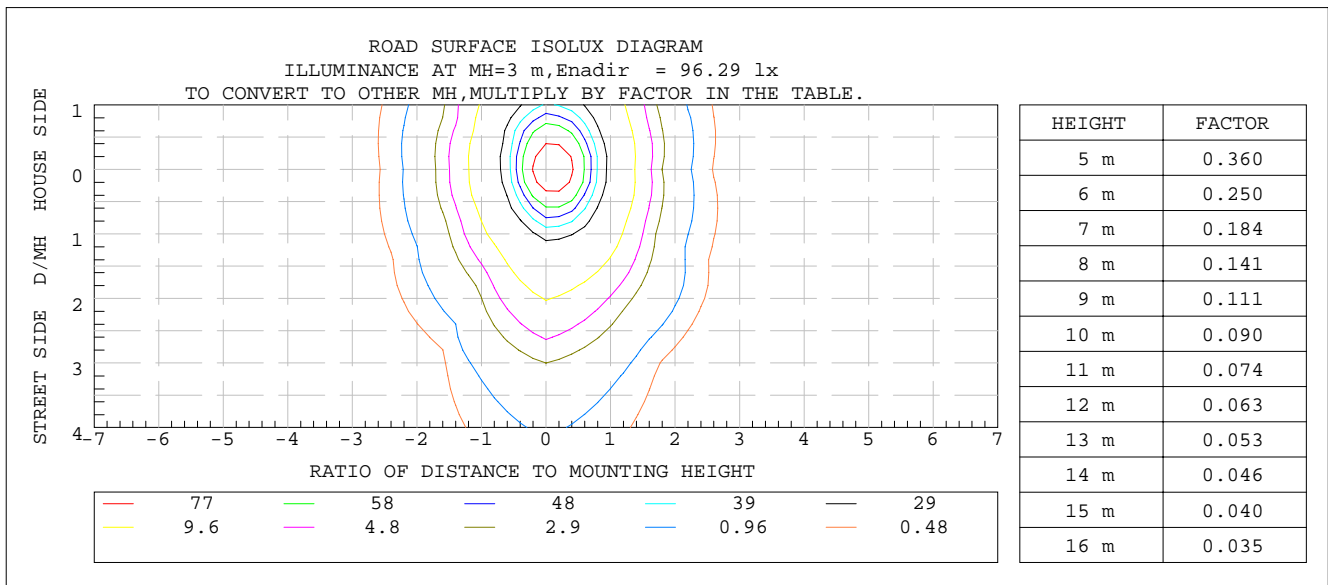
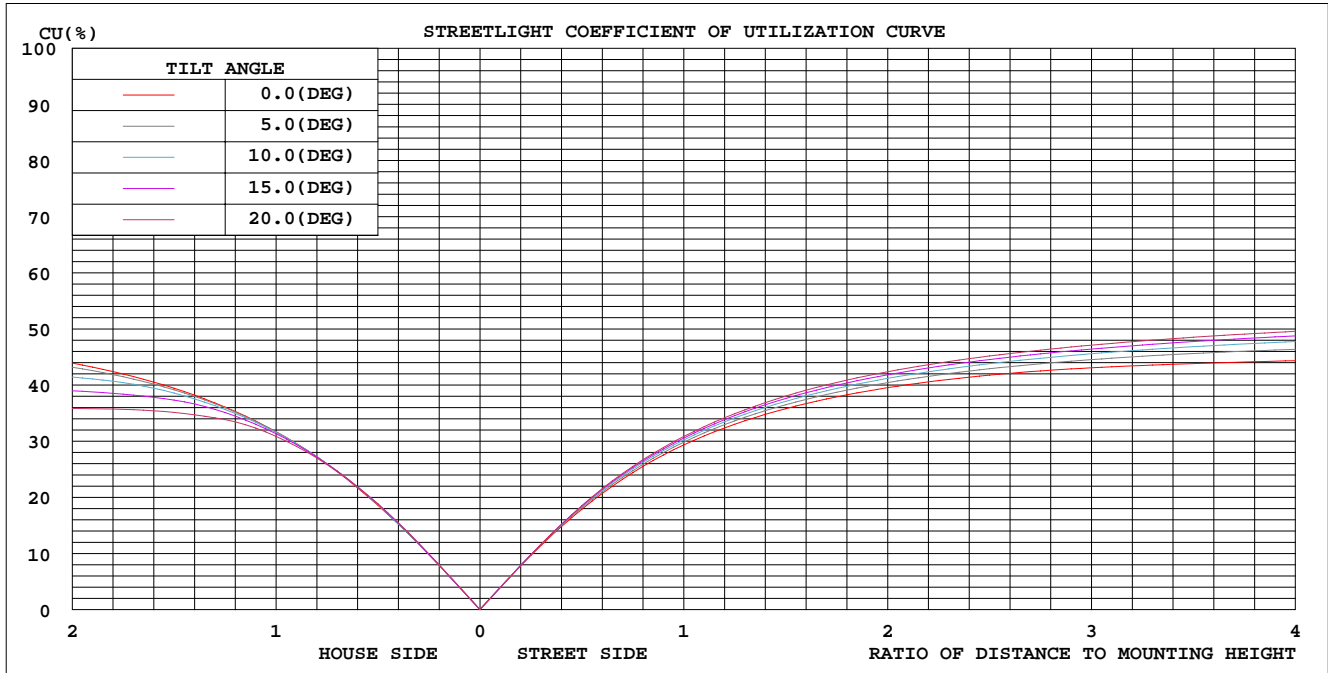
IES:Type V - Short
 CIE:Narrow - Intermediate
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:122.5cd/klm
 Max.At90:75.62cd/klm
 Max.80-90:122.5cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	1181
90%	1063
80%	944
70%	826
60%	708
50%	590
40%	472
30%	354
20%	236
10%	118
5%	59

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:0.0873A P:18.47W PF:0.9626 Lamp Flux:3000x1 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	846.8	893.4	911.6	893.0	844.1	803.1	765.8	799.8	0- 10	82.03	82.03	2.78,2.73
20	806.8	879.6	894.7	892.4	856.2	722.4	636.7	686.9	10- 20	231.5	313.6	10.6,10.5
30	807.8	865.0	836.4	916.2	924.7	662.7	497.0	585.3	20- 30	359.4	673.0	22.8,22.4
40	837.3	805.9	708.7	879.5	972.8	636.1	443.8	523.6	30- 40	467.3	1140	38.7,38
50	872.9	713.4	518.9	783.0	1087	534.7	326.8	434.4	40- 50	530.5	1671	56.6,55.7
60	968.6	531.5	249.6	580.4	1170	398.9	191.8	305.8	50- 60	524.6	2195	74.4,73.2
70	934.6	274.9	84.20	284.8	928.8	227.9	81.57	165.5	60- 70	428.5	2624	89,87.5
80	367.5	50.31	36.48	42.76	207.2	51.61	37.93	50.12	70- 80	208.0	2832	96,94.4
90	226.9	17.68	6.925	14.61	160.8	13.98	5.602	13.61	80- 90	45.68	2878	97.6,95.9
100	3.524	3.578	5.842	7.008	254.4	6.021	5.486	2.286	90-100	44.98	2923	99.1,97.4
110	52.10	5.809	0.5721	4.853	30.99	4.744	0.6341	4.540	100-110	10.79	2933	99.4,97.8
120	20.86	2.242	0.7890	4.756	25.83	4.254	0.9946	3.588	110-120	7.457	2941	99.7,98
130	6.022	1.611	0.8978	2.666	7.446	2.261	1.178	2.290	120-130	4.235	2945	99.8,98.2
140	4.241	1.657	1.252	1.527	3.584	1.654	1.498	1.875	130-140	1.971	2947	99.9,98.2
150	3.459	1.635	1.246	1.512	2.847	1.801	1.601	1.807	140-150	1.319	2948	100,98.3
160	1.658	1.944	1.178	1.644	2.018	1.869	1.498	2.038	150-160	0.8077	2949	100,98.3
170	1.945	1.672	1.304	1.489	1.783	1.642	1.481	1.662	160-170	0.4971	2950	100,98.3
180	1.446	1.475	1.464	1.441	1.452	1.478	1.464	1.458	170-180	0.1478	2950	100,98.3
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:0.0873A P:18.47W PF:0.9626 Lamp Flux:3000x1 lm		
NAME: LED STREET LIGHT	TYPE:LED	WEIGHT:5
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

1401.3 lm

%lum = 47.5%

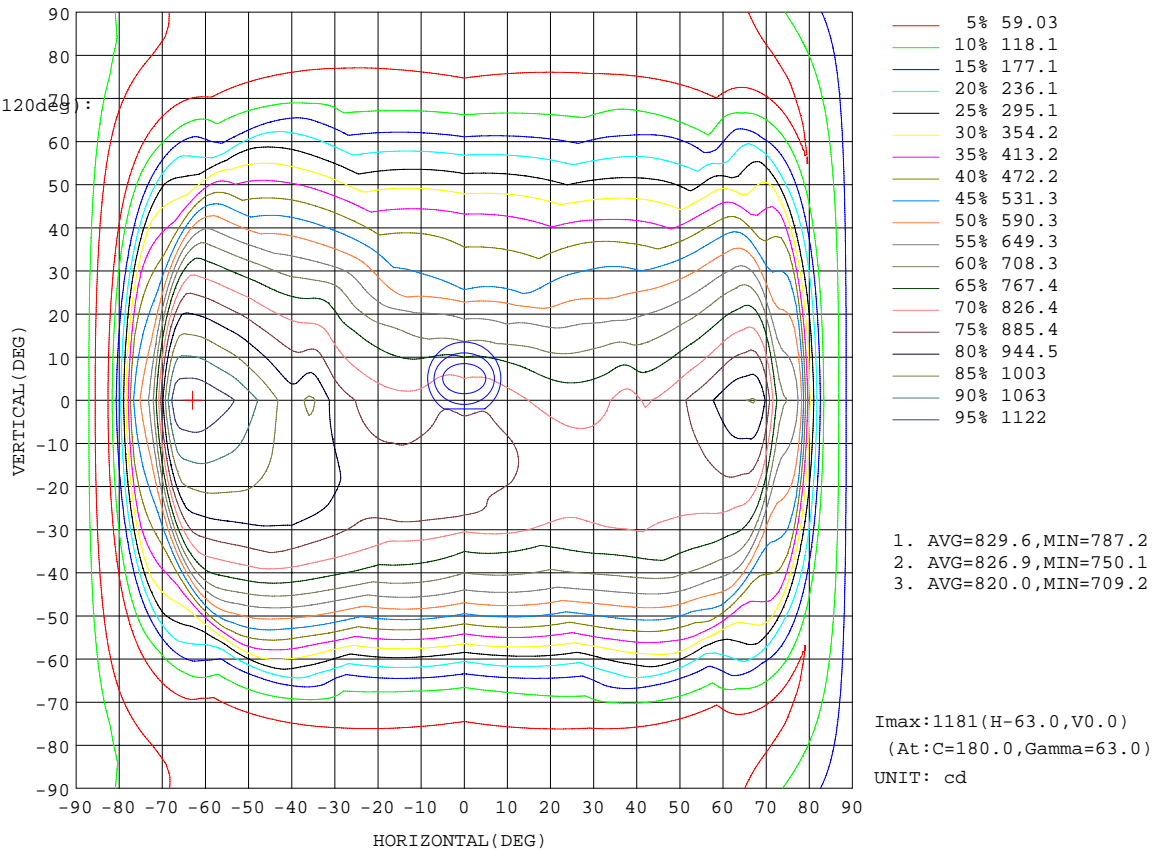
%lamp = 46.7%

Conical surface Flux(120deg):

2195.5 lm

%lum = 74.4%

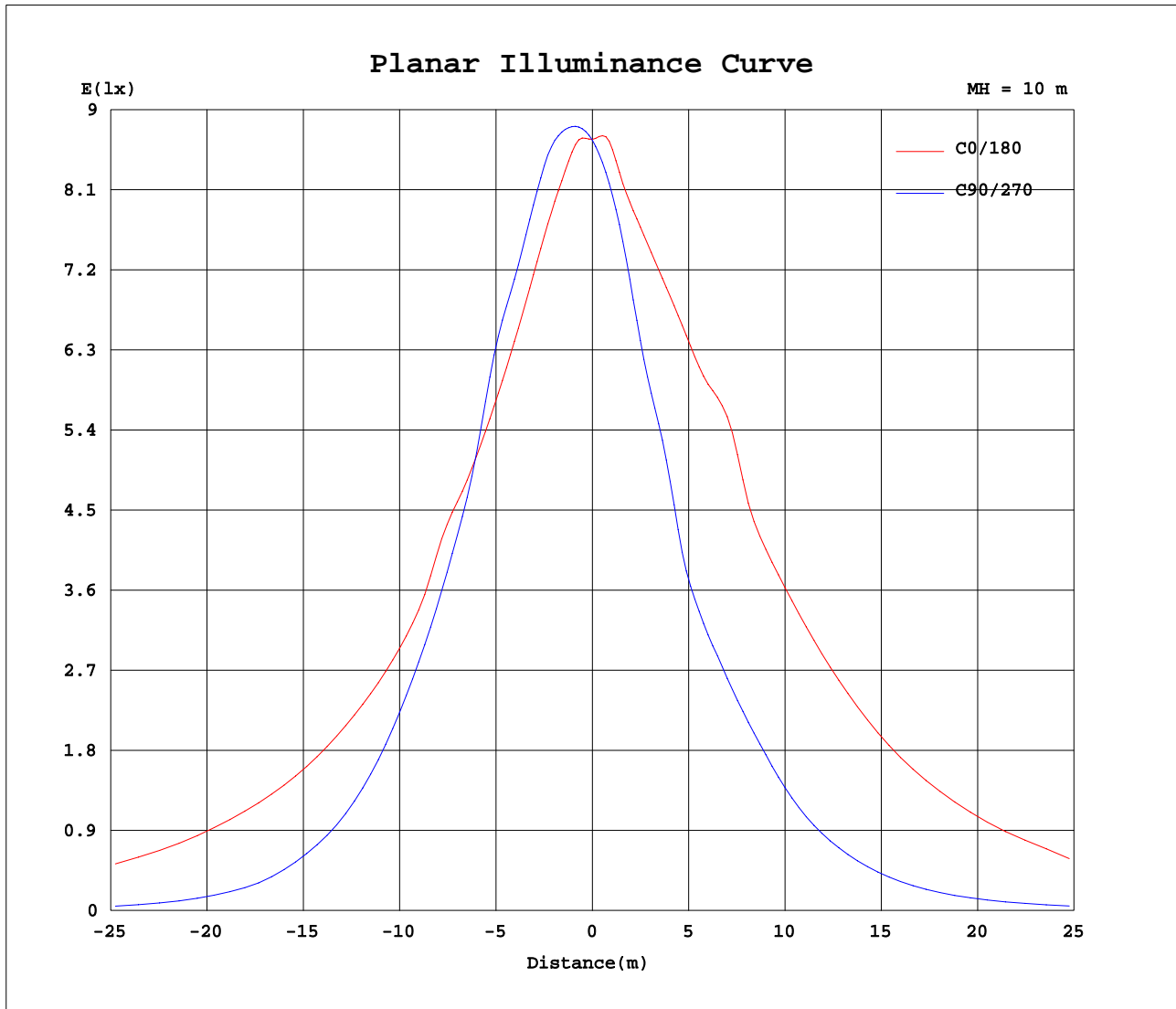
%lamp = 73.2%



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

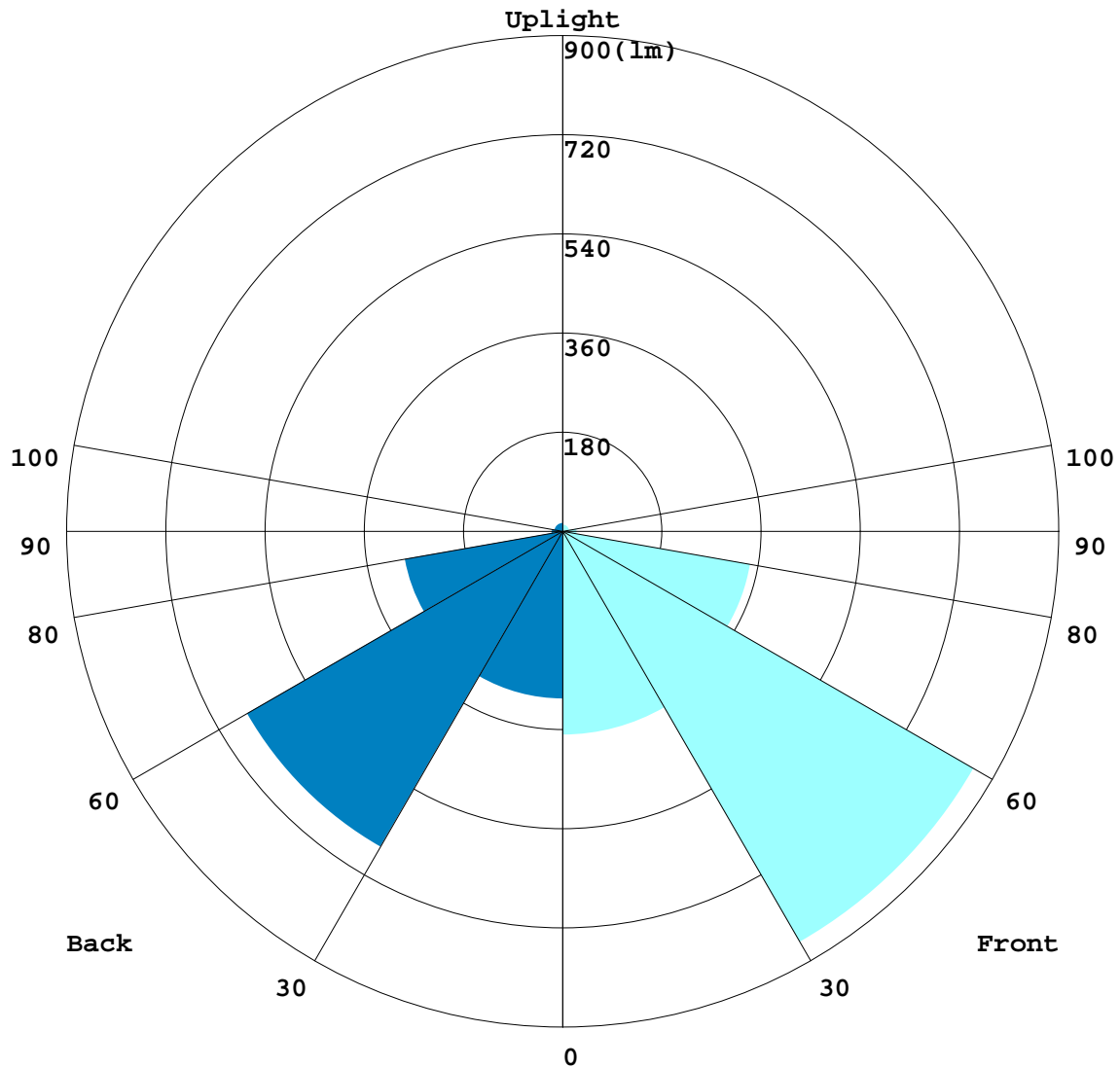


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: GLY
 Test Date: 16 January 2021

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:0.0873A P:18.47W PF:0.9626 Lamp Flux:3000x1 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:0.0873A P:18.47W PF:0.9626 Lamp Flux:3000x1 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)	369.23	12.5
FM - Front-Medium(30-60)	860.92	29.2
FH - Front-High(60-80)	345.72	11.7
FVH - Front-Very High(80-90)	25.467	0.9
Total Forward Light	1639.1	55.6

BL - Back-Low(0-30)	303.75	10.3
BM - Back-Medium(30-60)	661.55	22.4
BH - Back-High(60-80)	290.86	9.9
BVH - Back-Very High(80-90)	20.209	0.7
Total Back Light	1310.8	44.4

UL - Uplight-Low(90-100)	44.984	1.5
UH - Uplight-High(100-180)	27.228	0.9
Total Up Light	72.212	2.4

BUG(Back,Up,Glare) Rating	B1-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1601.3	37.749	1639.1
Street Side	1276.4	34.464	1310.8

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:0.0873A P:18.47W PF:0.9626 Lamp Flux:3000x1 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	867	867	866	866	866	865	867	867	866	866	866	865						
5	871	886	892	891	894	888	875	858	840	827	835	852						
10	847	878	909	912	912	874	844	813	794	766	786	813						
15	826	871	911	914	908	877	842	785	724	687	709	771						
20	807	865	894	895	898	887	856	771	674	637	650	724						
25	800	859	877	892	903	905	884	767	624	541	589	686						
30	808	860	870	836	902	930	925	768	558	497	508	662						
35	836	867	798	768	842	950	1010	777	529	475	480	632						
40	837	867	744	709	793	966	973	779	493	444	450	597						
45	834	853	687	630	728	957	1026	731	445	391	406	569						
50	873	825	602	519	633	933	1087	685	385	327	347	522						
55	917	787	483	393	509	883	1136	632	314	262	281	466						
60	969	711	352	250	370	791	1170	555	243	192	215	397						
65	1003	585	218	144	221	657	1178	462	173	130	154	316						
70	935	419	131	84.2	120	450	929	343	112	81.6	105	226						
75	707	174	82.0	56.2	79.9	146	596	142	80.8	57.6	76.0	115						
80	368	59.3	41.3	36.5	40.4	45.2	207	56.3	46.9	37.9	44.4	55.9						
85	79.6	24.5	16.5	19.0	15.5	17.9	43.6	18.1	18.5	22.1	19.1	19.7						
90	227	25.3	10.1	6.92	8.87	20.3	161	19.4	8.51	5.60	9.00	18.2						
95	251	22.5	6.98	10.1	7.04	20.2	133	20.0	5.33	6.32	5.20	14.8						
100	3.52	1.13	6.02	5.84	6.46	7.56	254	8.76	3.29	5.49	3.56	1.01						
105	2.42	14.3	1.43	2.70	0.97	16.8	2.92	5.39	1.35	0.48	1.02	8.02						
110	52.1	9.61	2.01	0.57	1.83	7.88	31.0	8.01	1.48	0.63	2.26	6.82						
115	24.4	9.03	1.67	0.72	1.12	8.56	23.5	6.66	1.15	1.20	1.62	5.58						
120	20.9	3.58	0.91	0.79	1.07	8.44	25.8	7.38	1.13	0.99	1.56	5.62						
125	12.6	5.18	1.17	0.86	1.07	4.38	21.2	4.28	1.29	1.10	1.70	3.44						
130	6.02	1.84	1.38	0.90	1.57	3.77	7.45	3.20	1.33	1.18	1.93	2.65						
135	3.91	4.16	1.65	1.04	1.55	3.04	5.52	2.74	1.54	1.37	1.93	3.61						
140	4.24	1.62	1.69	1.25	1.58	1.48	3.58	1.70	1.61	1.50	1.94	1.81						
145	1.90	3.30	1.58	1.33	1.60	2.77	1.81	2.31	1.70	1.60	1.94	3.16						
150	3.46	1.74	1.53	1.25	1.52	1.51	2.85	1.84	1.77	1.60	1.80	1.81						
155	1.93	1.41	1.66	1.28	1.61	1.52	1.89	1.65	1.86	1.55	1.97	1.66						
160	1.66	2.16	1.73	1.18	1.59	1.70	2.02	1.98	1.76	1.50	1.94	2.14						
165	2.26	2.09	1.46	1.22	1.37	1.64	1.92	1.93	1.62	1.48	1.68	2.09						
170	1.94	1.92	1.42	1.30	1.38	1.60	1.78	1.69	1.59	1.48	1.57	1.76						
175	1.67	1.58	1.46	1.37	1.42	1.41	1.58	1.57	1.57	1.48	1.50	1.54						
180	1.45	1.48	1.48	1.46	1.42	1.46	1.45	1.48	1.48	1.46	1.45	1.47						

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: