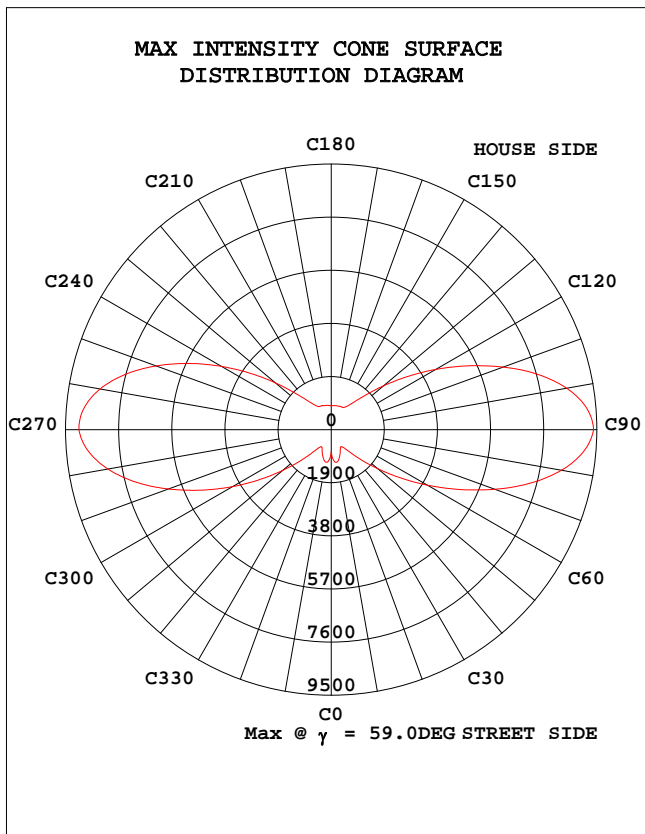
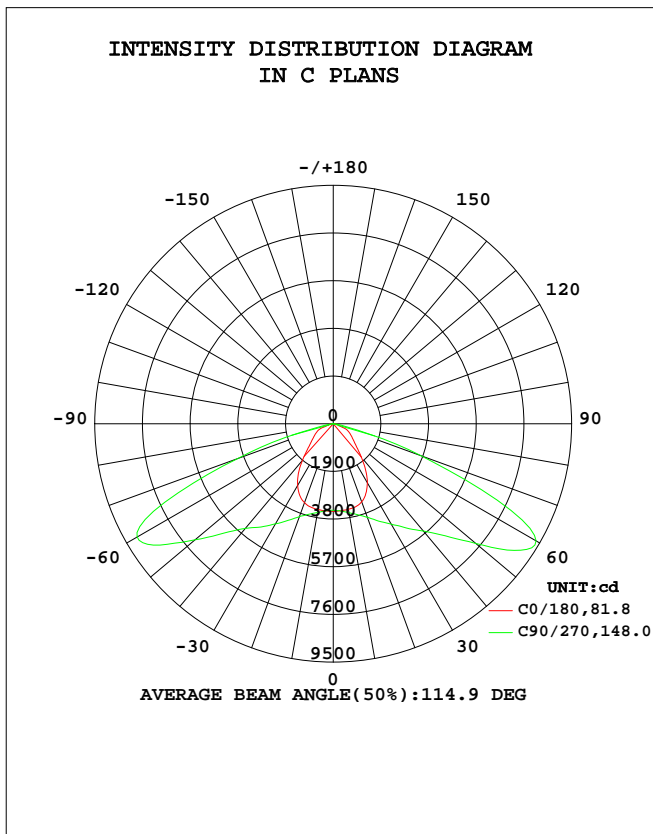


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:9.863V I:12.39A P:122.2W PF:1.000 Freq:0Hz Lamp Flux:14927.5x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.12 lm/W			
MODEL	IN-2120	I _{max} (cd)	9379	η street_up(%)	0.1
NOMINAL POWER(W)	120	LOR(%)	100.0	η street_down(%)	60.5
RATED VOLTAGE(V)	10	TOTAL FLUX(lm)	14927	η house_up(%)	0.1
NOMINAL FLUX(lm)	14927.5	MAXIMUM @(C,γ)	90,59.0	η house_down(%)	39.3
LAMPS INSIDE	1	η up(%)	0.2	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	10	η down(%)	99.8	SLI	17.965

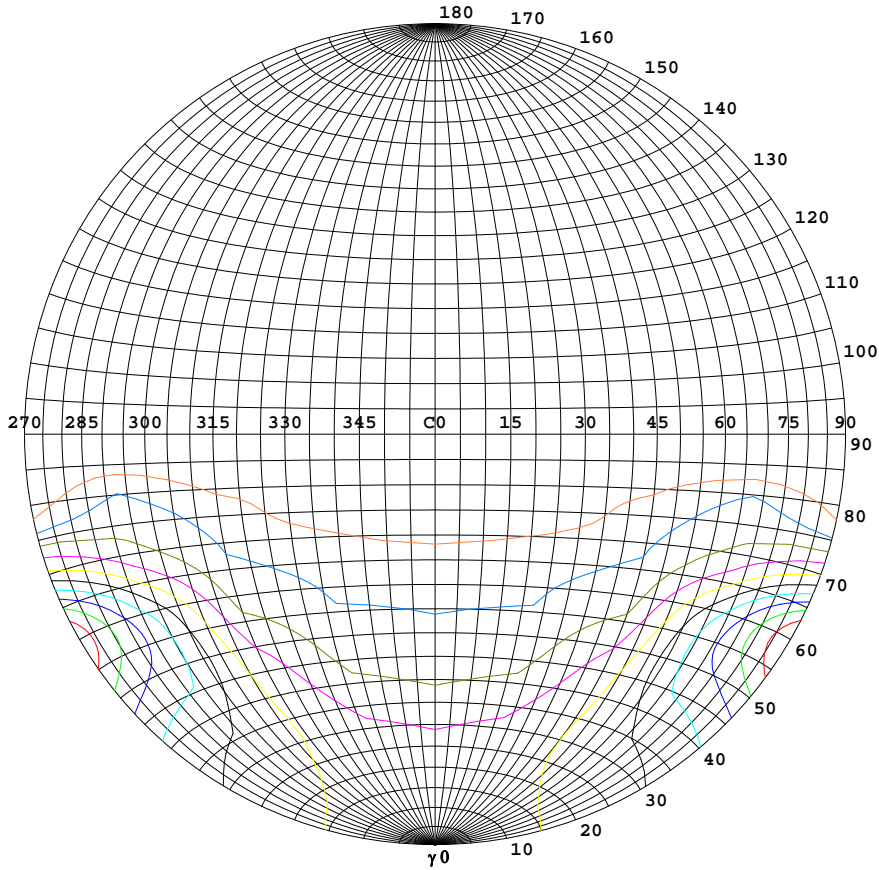


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:9.863V I:12.39A P:122.2W PF:1.000 Freq:0Hz Lamp Flux:14927.5x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A



Classification:

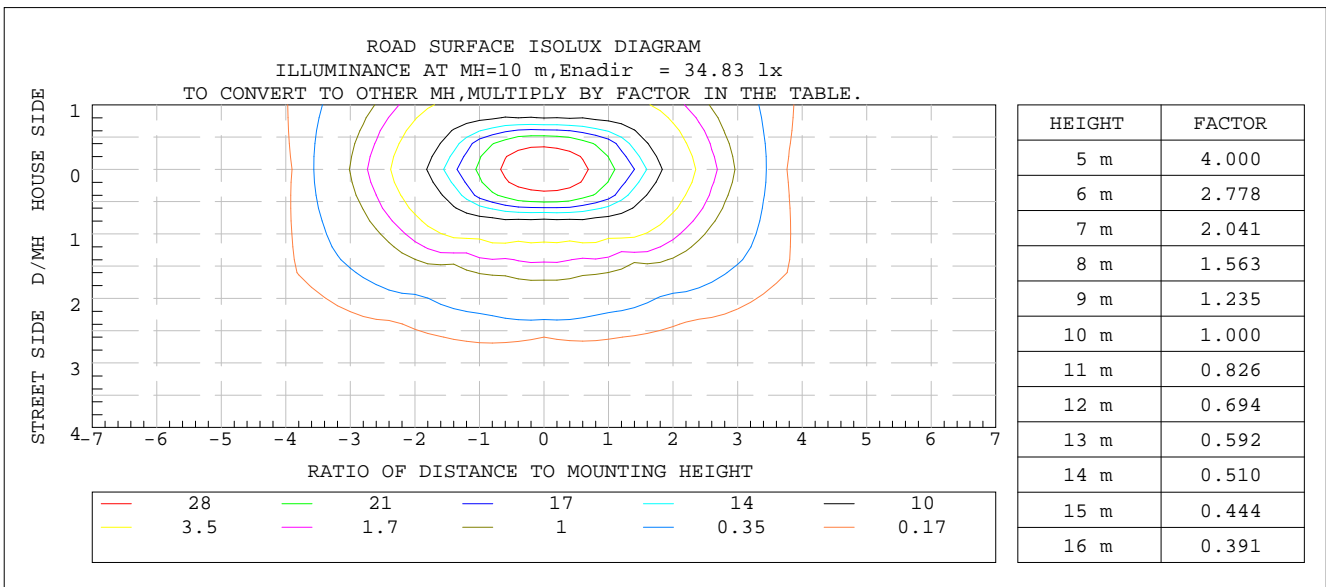
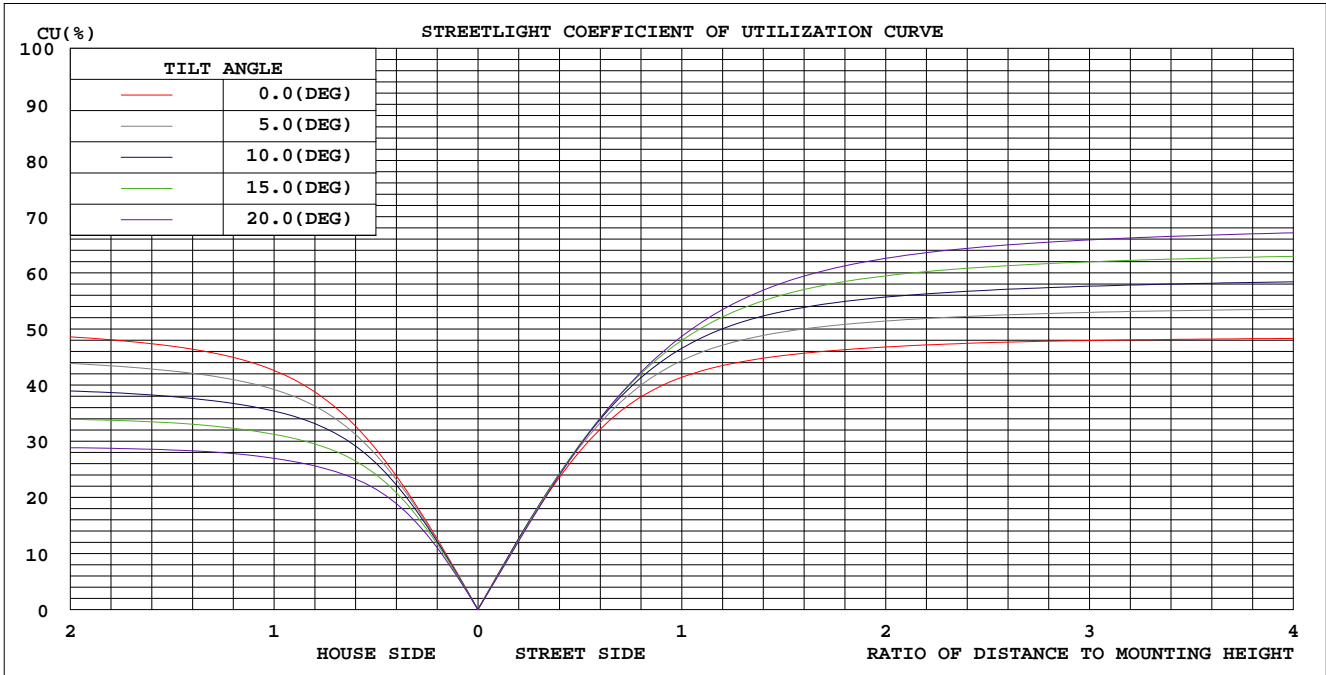
IES:Type I - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:72.06cd/klm
 Max.At90:2.644cd/klm
 Max.80-90:72.06cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	9379
— 90%	8441
— 80%	7503
— 70%	6565
— 60%	5627
— 50%	4689
— 40%	3752
— 30%	2814
— 20%	1876
— 10%	938
— 5%	469

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-20

gamma Range: 0 - 180DEG
 gamma Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Seth
 Test Date: 2017-05-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.4966]
 Remarks:

ZONAL FLUX DIAGRAM

Test:U:9.863V I:12.39A P:122.2W PF:1.000 Freq:0Hz Lamp Flux:14927.5x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

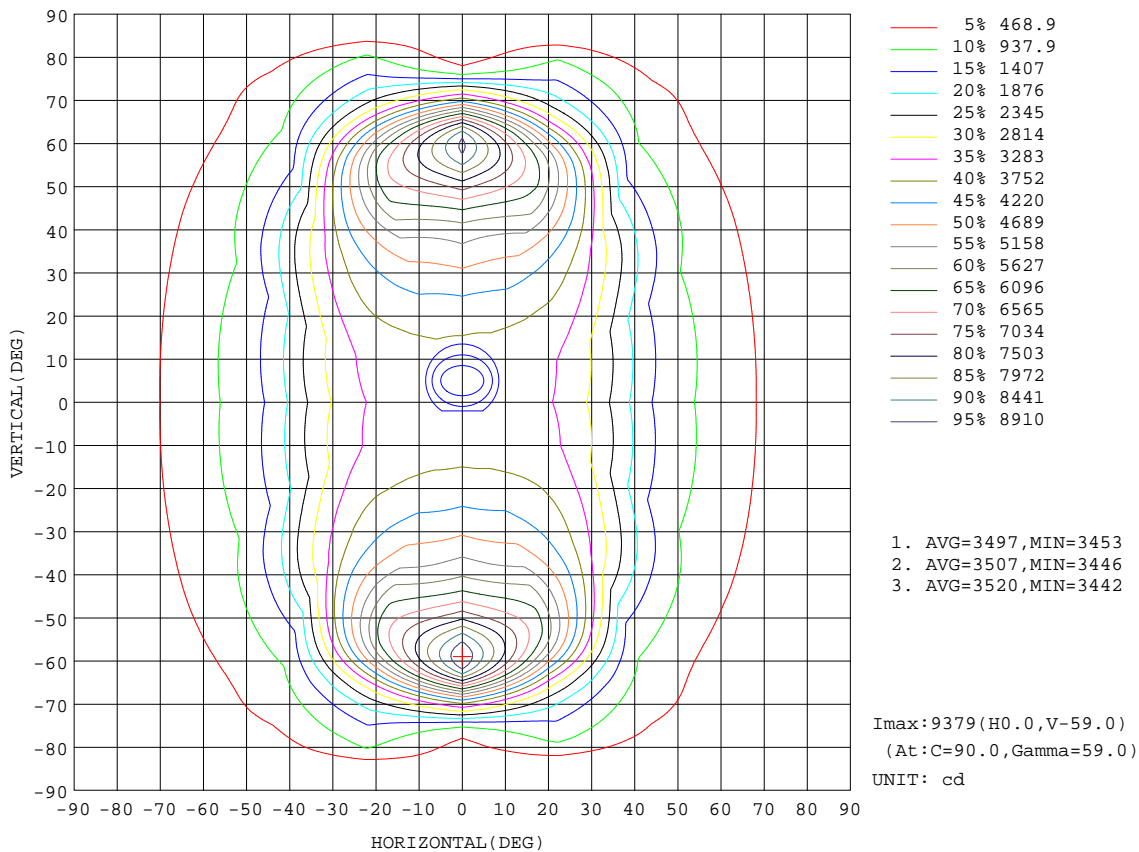
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	3462	3535	3600	3517	3470	3544	3589	3506	0- 10	333.8	333.8	2.24,2.24
20	3315	3657	3968	3621	3350	3684	3940	3603	10- 20	1018	1352	9.05,9.05
30	2720	3745	4621	3739	2838	3824	4607	3687	20- 30	1708	3060	20.5,20.5
40	1749	3536	5583	3625	1922	3714	5446	3514	30- 40	2313	5373	36,36
50	1076	2763	7419	2982	1159	3105	7196	2780	40- 50	2813	8185	54.8,54.8
60	765.0	1439	9331	1643	825.4	1740	9025	1496	50- 60	3171	11357	76.1,76.1
70	266.0	817.7	3671	883.0	480.9	954.5	4048	844.8	60- 70	2395	13752	92.1,92.1
80	155.3	407.0	306.6	406.5	174.4	505.2	246.0	400.3	70- 80	917.8	14669	98.3,98.3
90	3.194	6.640	8.063	8.014	16.98	15.93	9.580	4.943	80- 90	222.3	14892	99.8,99.8
100	0.5944	0.5100	2.560	0.5099	1.526	3.060	11.09	2.807	90-100	3.206	14895	99.8,99.8
110	1.101	1.445	6.252	1.697	2.455	4.768	18.17	4.761	100-110	4.568	14900	99.8,99.8
120	1.101	2.889	11.63	2.889	3.216	6.883	17.83	6.883	110-120	5.610	14905	99.9,99.9
130	1.355	3.228	13.55	3.562	4.237	6.453	16.36	6.883	120-130	6.172	14911	99.9,99.9
140	2.794	4.335	12.28	5.176	6.184	5.610	11.05	6.883	130-140	5.503	14917	99.9,99.9
150	4.488	5.690	12.34	6.203	7.792	6.801	9.336	7.907	140-150	4.594	14921	100,100
160	5.331	5.610	7.545	6.374	8.469	7.140	7.287	7.478	150-160	3.336	14925	100,100
170	6.593	7.222	8.309	7.215	8.469	7.140	7.544	8.243	160-170	1.949	14927	100,100
180	8.553	8.246	9.344	8.411	8.553	7.140	8.144	8.158	170-180	0.7509	14927	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

ISOCANDELA DIAGRAM

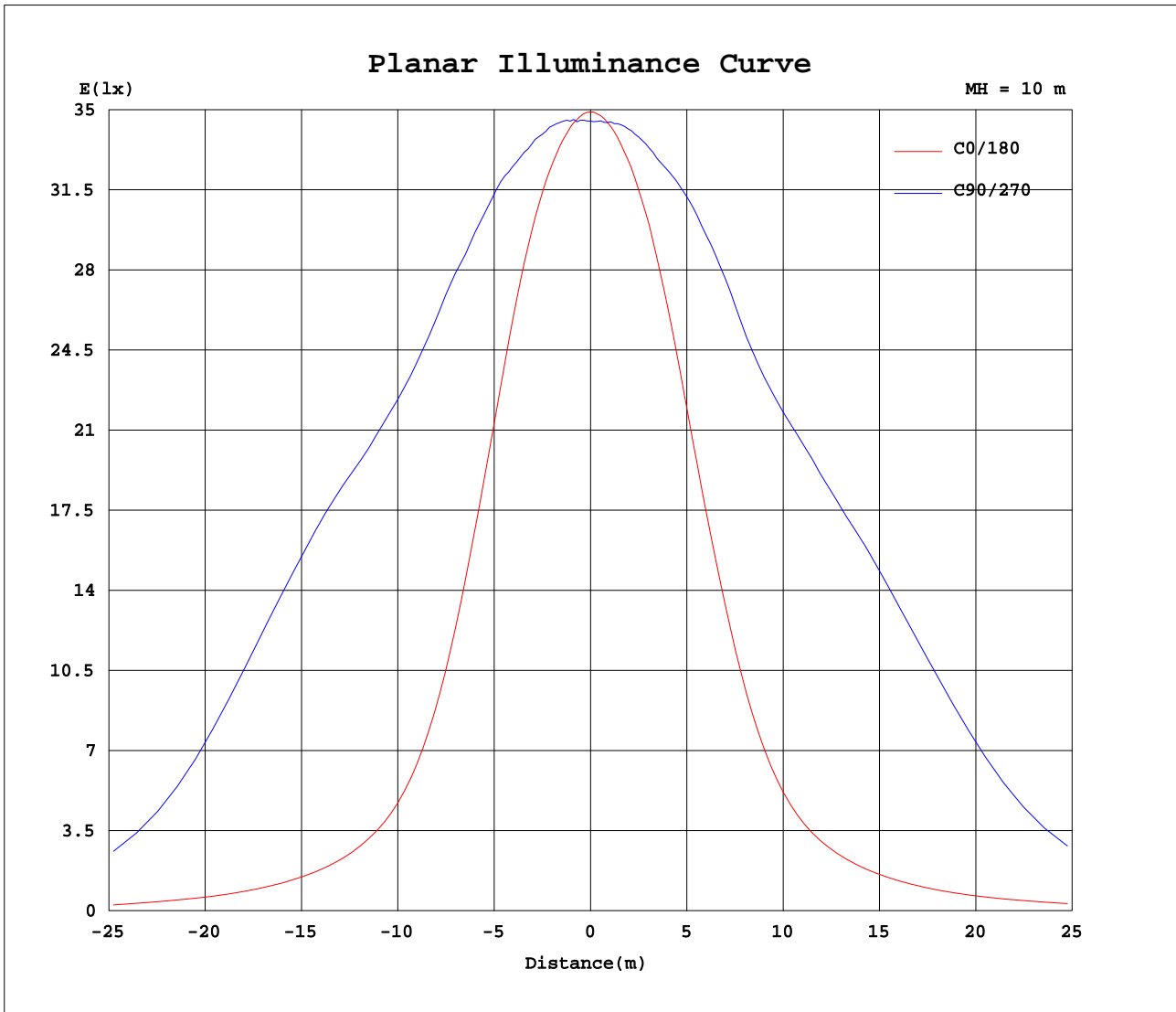
Test:U:9.863V I:12.39A P:122.2W PF:1.000 Freq:0Hz Lamp Flux:14927.5x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

Planar Illuminance Curve



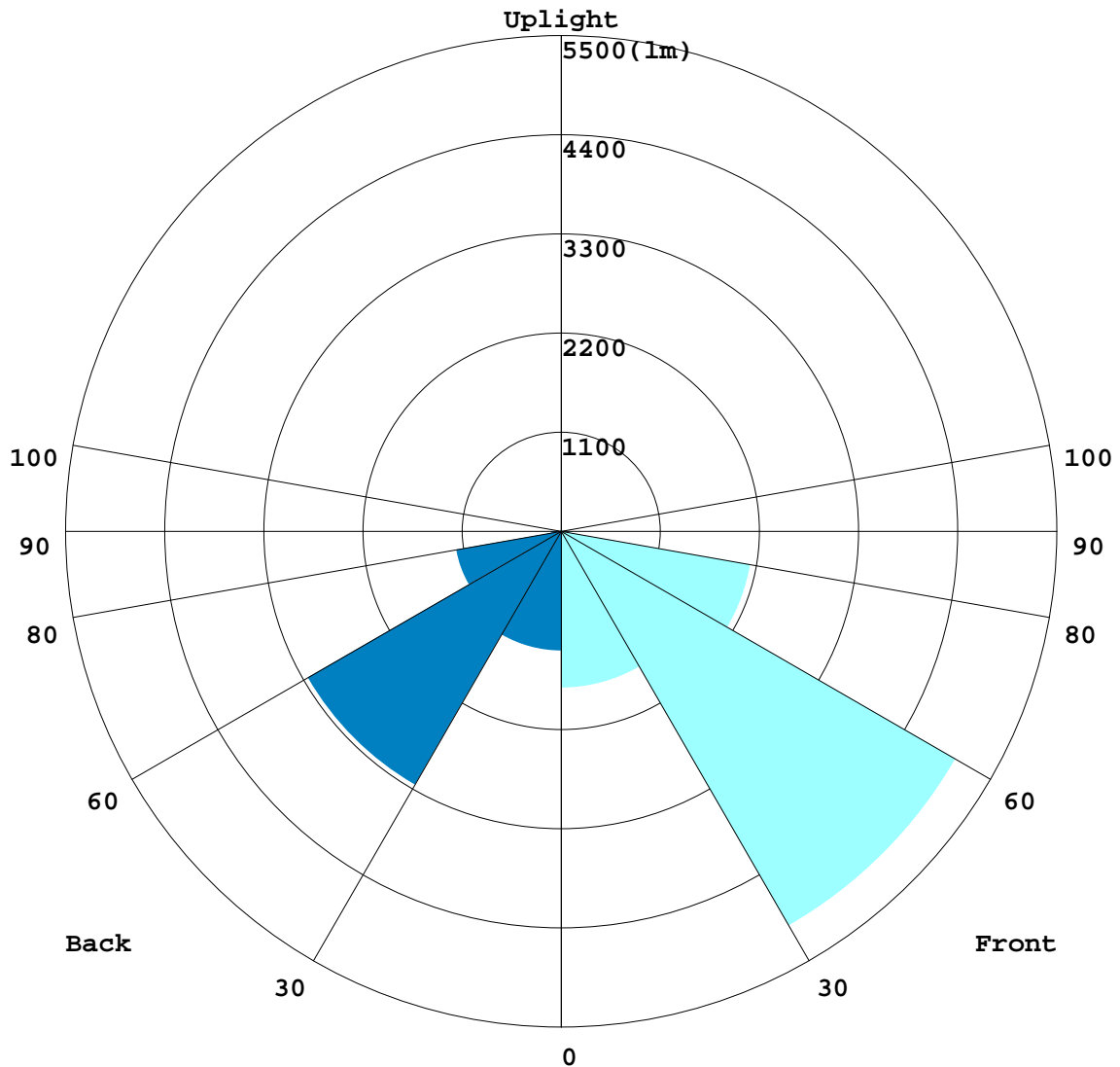
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2017-05-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.4966]
Remarks:

LCS REPORT

Test:U:9.863V I:12.39A P:122.2W PF:1.000 Freq:0Hz Lamp Flux:14927.5x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

BUG REPORT

Test:U:9.863V I:12.39A P:122.2W PF:1.000 Freq:0Hz Lamp Flux:14927.5x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1735.8	11.6
FM - Front-Medium(30-60)	5050.6	33.8
FH - Front-High(60-80)	2130.5	14.3
FVH - Front-Very High(80-90)	108.69	0.7
Total Forward Light	9046.8	60.6

BL - Back-Low(0-30)	1324.1	8.9
BM - Back-Medium(30-60)	3246.1	21.7
BH - Back-High(60-80)	1182.4	7.9
BVH - Back-Very High(80-90)	113.63	0.8
Total Back Light	5880.6	39.4

UL - Uplight-Low(90-100)	3.2059	0.0
UH - Uplight-High(100-180)	32.483	0.2
Total Up Light	35.689	0.2

BUG(Back,Up,Glare) Rating	B3-U2-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5866.2	14.384	5880.6
Street Side	9025.5	21.305	9046.8

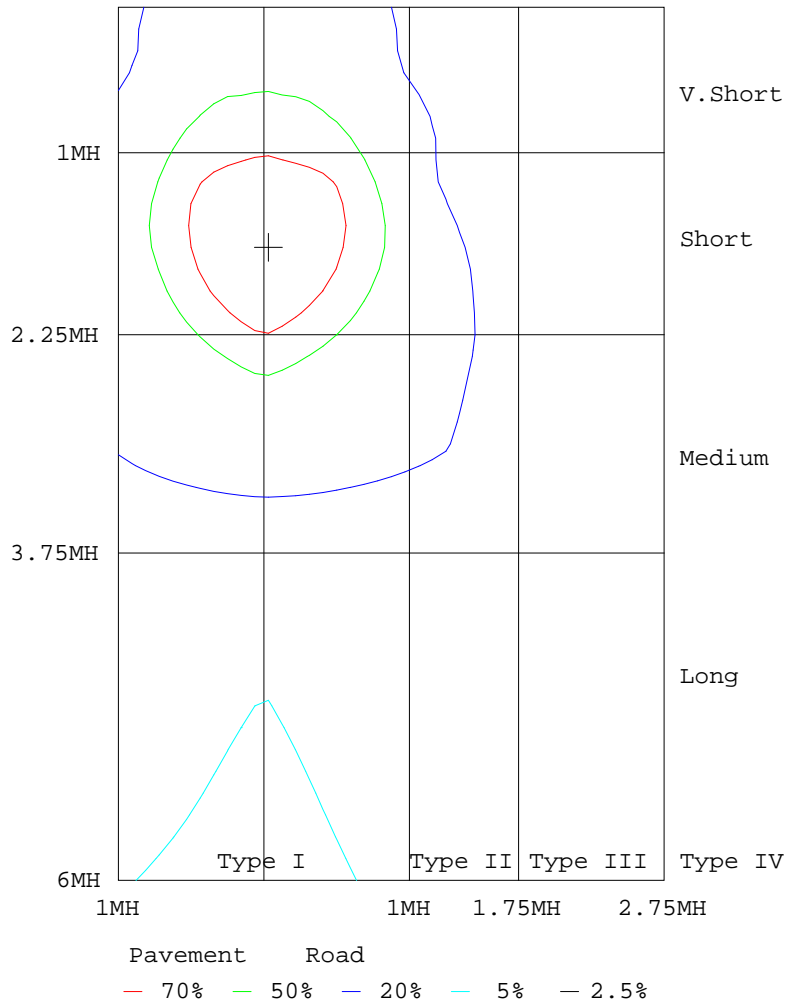
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:9.863V I:12.39A P:122.2W PF:1.000 Freq:0Hz Lamp Flux:14927.5x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:9.863V I:12.39A P:122.2W PF:1.000 Freq:0Hz Lamp Flux:14927.5x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	3491	3483	3478	3463	3451	3460	3461	3453	3491	3483	3478	3463	3451	3460	3461	3453			
5	3483	3478	3492	3501	3497	3490	3477	3455	3485	3485	3490	3499	3483	3485	3468	3446			
10	3462	3477	3535	3596	3600	3582	3517	3453	3470	3486	3544	3590	3589	3569	3506	3443			
15	3426	3466	3600	3706	3753	3702	3567	3446	3442	3484	3612	3732	3736	3684	3550	3432			
20	3315	3424	3657	3879	3968	3861	3621	3407	3350	3463	3684	3903	3940	3846	3603	3379			
25	3075	3273	3716	4122	4278	4087	3670	3290	3158	3353	3753	4127	4249	4072	3640	3238			
30	2720	2990	3745	4379	4621	4355	3739	3071	2838	3120	3824	4407	4607	4321	3687	2977			
35	2252	2594	3702	4695	5072	4672	3730	2703	2424	2772	3816	4709	5023	4609	3658	2582			
40	1749	2094	3536	5119	5583	5091	3625	2245	1922	2309	3714	5132	5446	5012	3514	2101			
45	1334	1609	3254	5660	6319	5684	3404	1761	1468	1812	3509	5685	6163	5539	3243	1619			
50	1076	1242	2763	6084	7419	6197	2982	1360	1159	1391	3105	6194	7196	5977	2780	1263			
55	903	1000	2072	6162	8798	6390	2341	1084	970	1109	2467	6437	8429	6051	2125	1021			
60	765	825	1439	5388	9331	5748	1643	870	825	899	1740	5964	9025	5446	1496	832			
65	628	686	1050	3634	7208	4038	1163	730	692	760	1239	4392	7404	3826	1088	689			
70	266	500	818	2187	3671	2430	883	590	481	620	955	2642	4048	2313	845	538			
75	204	266	613	1427	1032	1534	646	331	204	325	708	1704	1392	1517	629	278			
80	155	223	407	900	307	1034	406	240	174	249	505	1076	246	960	400	226			
85	94.3	161	136	232	79.5	259	149	195	128	198	172	260	78.7	218	128	170			
90	3.19	13.8	6.64	11.8	8.06	9.43	8.01	27.1	17.0	39.5	15.9	19.9	9.58	10.7	4.94	9.65			
95	0.59	0.59	0.68	1.45	2.56	1.90	0.51	0.51	1.19	1.61	2.55	6.14	7.89	5.61	2.13	1.54			
100	0.59	1.27	0.51	1.45	2.56	1.61	0.51	1.94	1.53	2.15	3.06	7.34	11.1	6.97	2.81	2.65			
105	1.10	1.19	1.01	2.64	4.28	2.80	0.59	1.19	2.03	2.29	3.49	9.37	15.7	9.26	3.66	2.22			
110	1.10	1.19	1.45	4.17	6.25	4.75	1.70	1.11	2.45	2.46	4.77	12.6	18.2	12.4	4.76	2.56			
115	1.10	1.19	1.78	5.36	8.56	5.86	1.78	1.11	2.71	3.14	5.70	12.4	18.1	12.6	5.70	2.99			
120	1.10	1.19	2.89	6.90	11.6	6.88	2.89	1.11	3.22	3.65	6.88	11.7	17.8	12.8	6.88	3.58			
125	1.10	1.27	2.81	8.77	14.2	9.16	3.06	1.45	3.30	4.07	6.80	13.6	17.8	13.8	6.88	4.09			
130	1.35	1.61	3.23	9.88	13.5	9.18	3.56	1.53	4.24	5.01	6.45	12.5	16.4	12.7	6.88	4.78			
135	1.86	2.12	4.25	10.4	13.3	9.43	4.42	2.46	5.42	5.77	5.70	11.4	12.9	11.6	6.88	5.54			
140	2.79	2.97	4.34	9.81	12.3	9.69	5.18	3.32	6.18	6.53	5.61	10.3	11.1	9.26	6.88	6.39			
145	3.98	3.56	5.18	9.54	11.9	10.8	5.44	4.01	7.11	7.21	5.87	9.28	10.0	9.43	7.05	7.16			
150	4.49	4.41	5.69	9.63	12.3	10.8	6.20	4.35	7.79	7.47	6.80	7.75	9.34	8.50	7.91	7.16			
155	4.82	4.50	5.61	8.78	9.69	8.93	6.80	4.69	8.47	7.89	7.14	7.67	7.37	7.98	7.65	7.16			
160	5.33	4.58	5.61	6.82	7.54	7.14	6.37	4.77	8.47	8.31	7.14	7.67	7.29	7.15	7.48	7.24			
165	5.25	4.58	5.61	6.22	6.52	6.29	6.20	5.11	8.47	8.40	7.14	7.67	7.29	7.99	7.65	7.41			
170	6.59	5.51	7.22	7.92	8.31	6.88	7.21	5.54	8.47	8.57	7.14	8.18	7.54	8.24	8.24	7.67			
175	8.46	7.12	8.16	8.18	9.42	7.81	8.16	6.05	8.55	8.57	7.14	8.27	8.14	9.26	8.24	8.01			
180	8.55	7.13	8.25	8.09	9.34	8.16	8.41	6.22	8.55	8.57	7.14	8.27	8.14	9.26	8.16	8.27			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Seth
 Test Date:2017-05-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4966]
 Remarks: