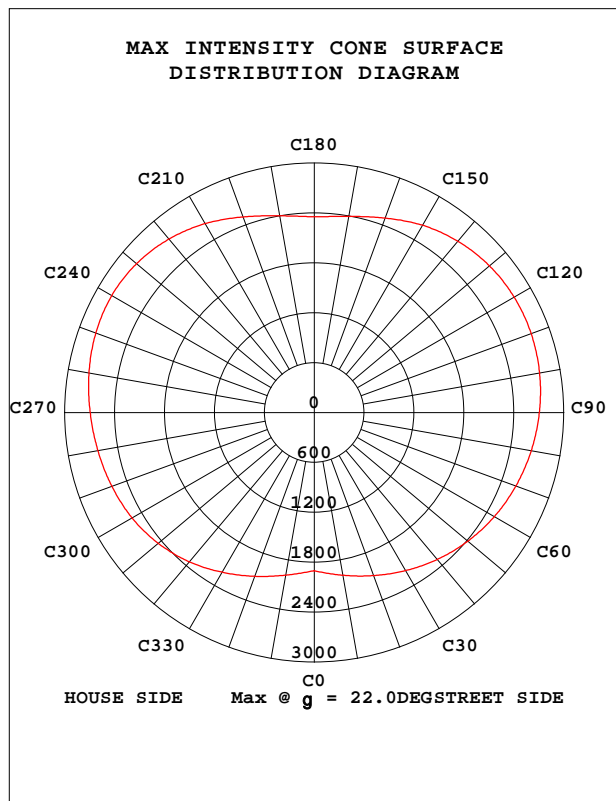
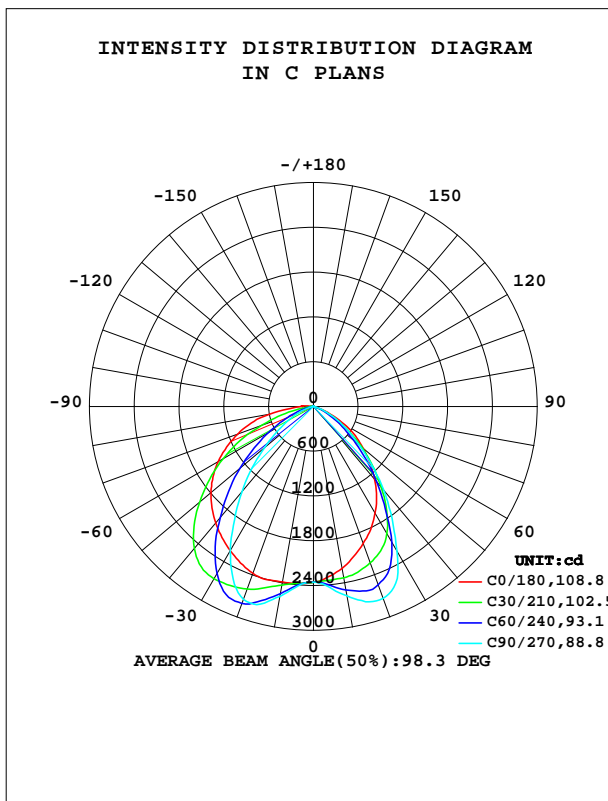


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.16V I:0.4160A P:49.600W PF:0.9920 Freq:60.00Hz Lamp Flux:6050x1 lm		
NAME: ASD-FLA-MV-50DAV-BK(3000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.39 lm/W			
MSDEELA-MV-50DAV-BK(3000K)		Imax(cd)	2814	h street_up(%)	0.3
NOMINAL POWER(W)	50	LOR(%)	100.0	h street_down(%)	46.0
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	6050	h house_up(%)	0.5
NOMINAL FLUX(lm)	6050	MAXIMUM @(C,g)	240,22.0	h house_down(%)	53.2
LAMPS INSIDE	1	h up(%)	0.7	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	120.0	h down(%)	99.3	SLI	13.466

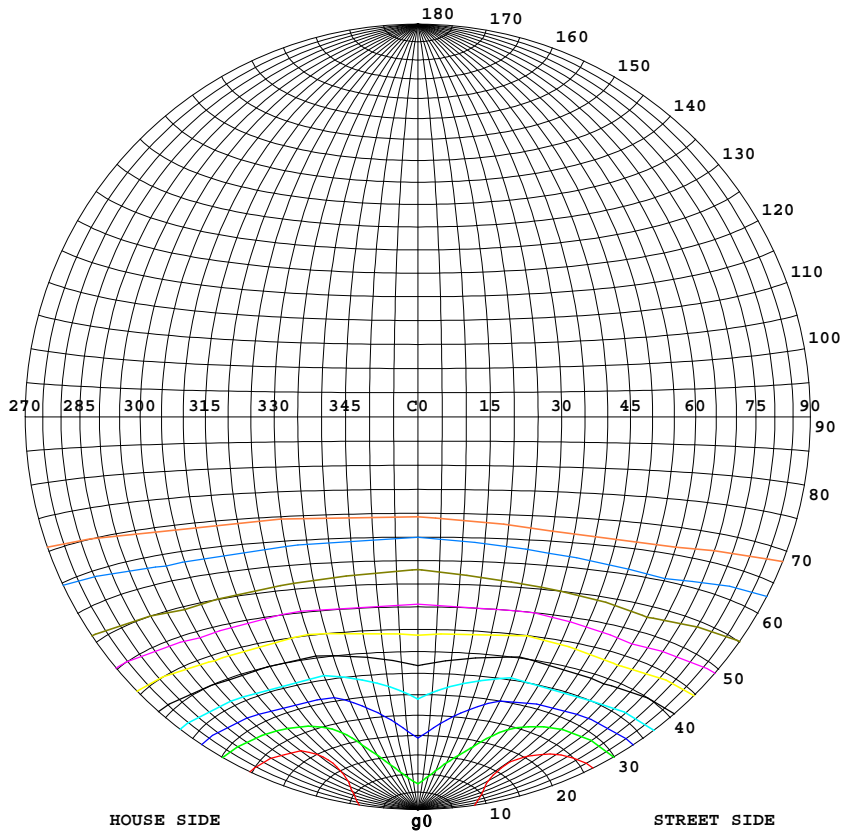


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-9-13

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1379]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.16V I:0.4160A P:49.600W PF:0.9920 Freq:60.00Hz Lamp Flux:6050x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:



Classification:

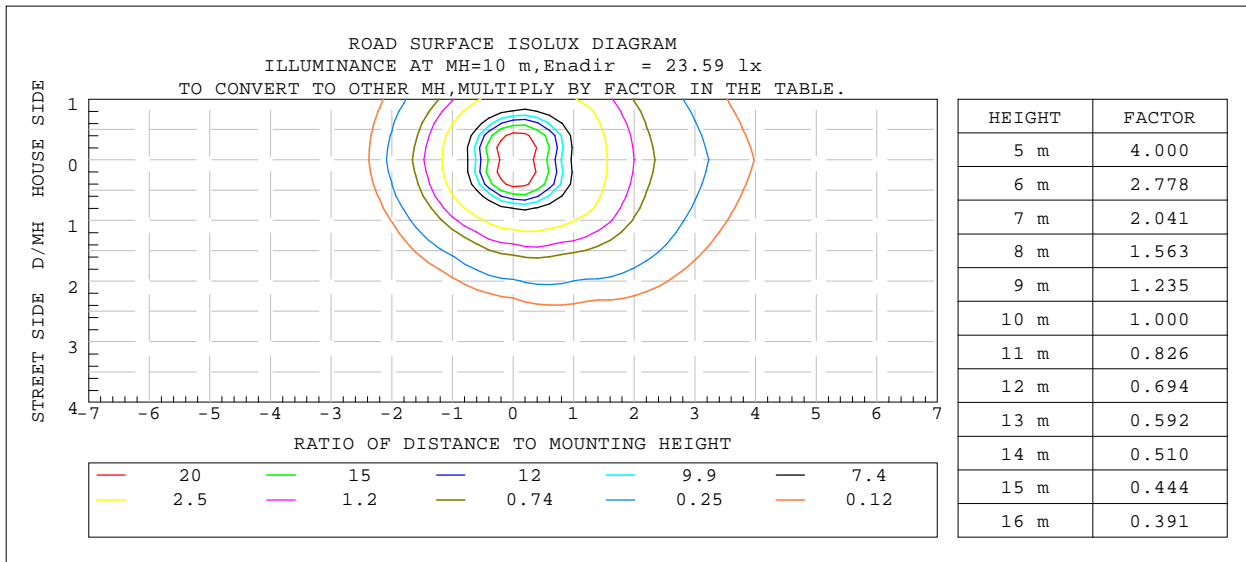
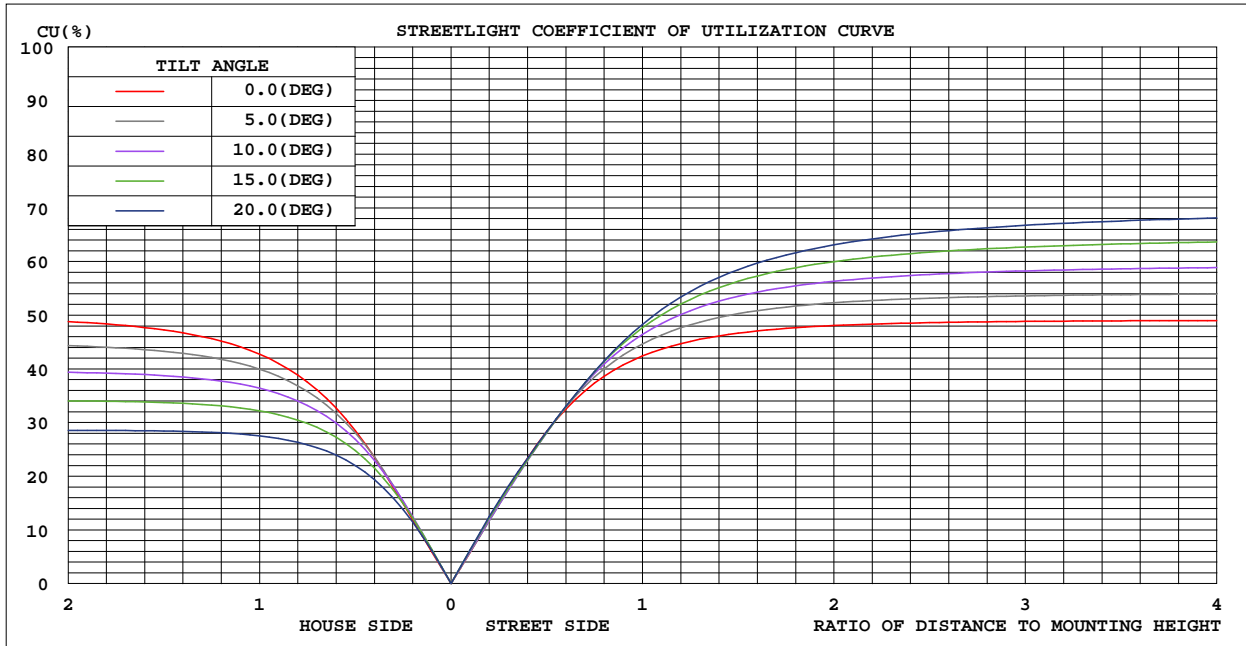
IES:Type I - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:99.41cd/klm
 Max.At90:24.02cd/klm
 Max.80-90:99.41cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2814
90%	2533
80%	2251
70%	1970
60%	1689
50%	1407
40%	1126
30%	844
20%	563
10%	281
5%	141

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-9-13

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1379]
 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: 2022-9-13

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.700m [K=1.1379]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.16V I:0.4160A P:49.600W PF:0.9920 Freq:60.00Hz Lamp Flux:6050x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:

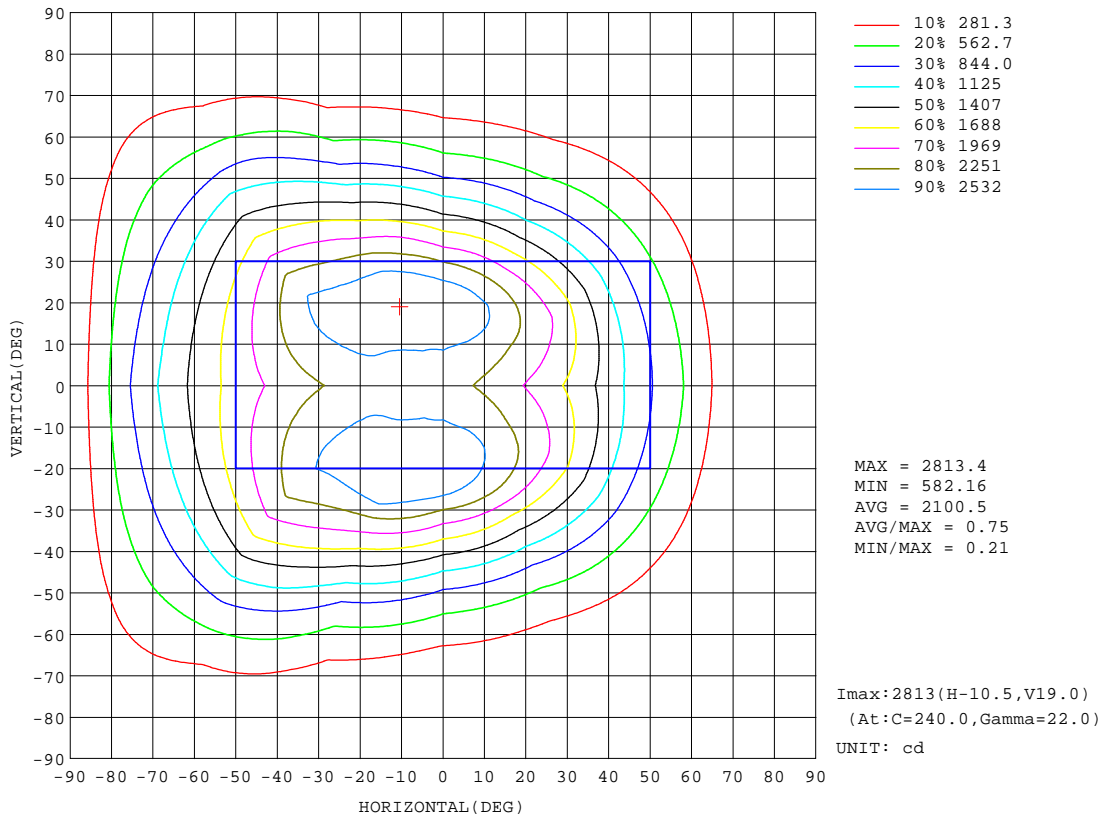
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	2202	2411	2575	2501	2388	2486	2581	2406	0- 10	229.4	229.4	3.81,3.81
20	1953	2385	2734	2681	2378	2706	2749	2416	10- 20	709.5	938.9	15.6,15.6
30	1653	2036	2244	2627	2230	2627	2235	2044	20- 30	1114	2053	34.1,34.1
40	1277	1370	1468	2183	2038	2212	1493	1409	30- 40	1246	3299	54.8,54.8
50	867.3	769.6	800.7	1631	1792	1637	855.2	817.0	40- 50	1110	4409	73.2,73.2
60	480.1	334.4	387.8	1027	1473	1044	416.7	384.0	50- 60	823.5	5233	86.9,86.9
70	119.8	72.84	107.9	503.3	1078	505.0	152.6	126.9	60- 70	492.5	5725	95.1,95.1
80	5.971	2.234	2.775	123.2	598.6	132.3	18.59	7.643	70- 80	205.6	5931	98.5,98.5
90	1.747	0.9827	0.2213	7.067	144.6	24.37	1.594	1.082	80- 90	46.59	5978	99.3,99.3
100	3.327	1.727	0.6343	2.134	23.50	7.680	0.5444	1.680	90-100	15.88	5994	99.5,99.5
110	5.130	3.020	1.764	1.850	2.363	3.537	2.891	3.250	100-110	3.131	5997	99.6,99.6
120	6.836	4.674	2.971	2.887	3.469	2.589	3.087	4.410	110-120	3.289	6000	99.6,99.7
130	8.107	6.491	5.004	4.498	5.065	4.068	4.448	6.087	120-130	4.082	6004	99.7,99.7
140	8.868	7.797	7.049	6.151	6.791	5.813	6.556	7.452	130-140	4.802	6009	99.8,99.8
150	9.406	8.828	7.971	7.272	6.742	7.012	7.557	8.619	140-150	4.713	6014	99.9,99.9
160	9.793	9.540	8.577	9.046	8.179	8.985	8.425	9.421	150-160	3.856	6017	99.9,99.9
170	10.19	10.34	9.597	9.705	10.53	9.452	9.492	10.16	160-170	2.700	6020	100,100
180	10.64	10.48	10.68	10.97	10.39	10.58	10.26	10.44	170-180	0.9944	6021	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:2022-9-13

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1379]
 Remarks:

ISOCANDELA DIAGRAM

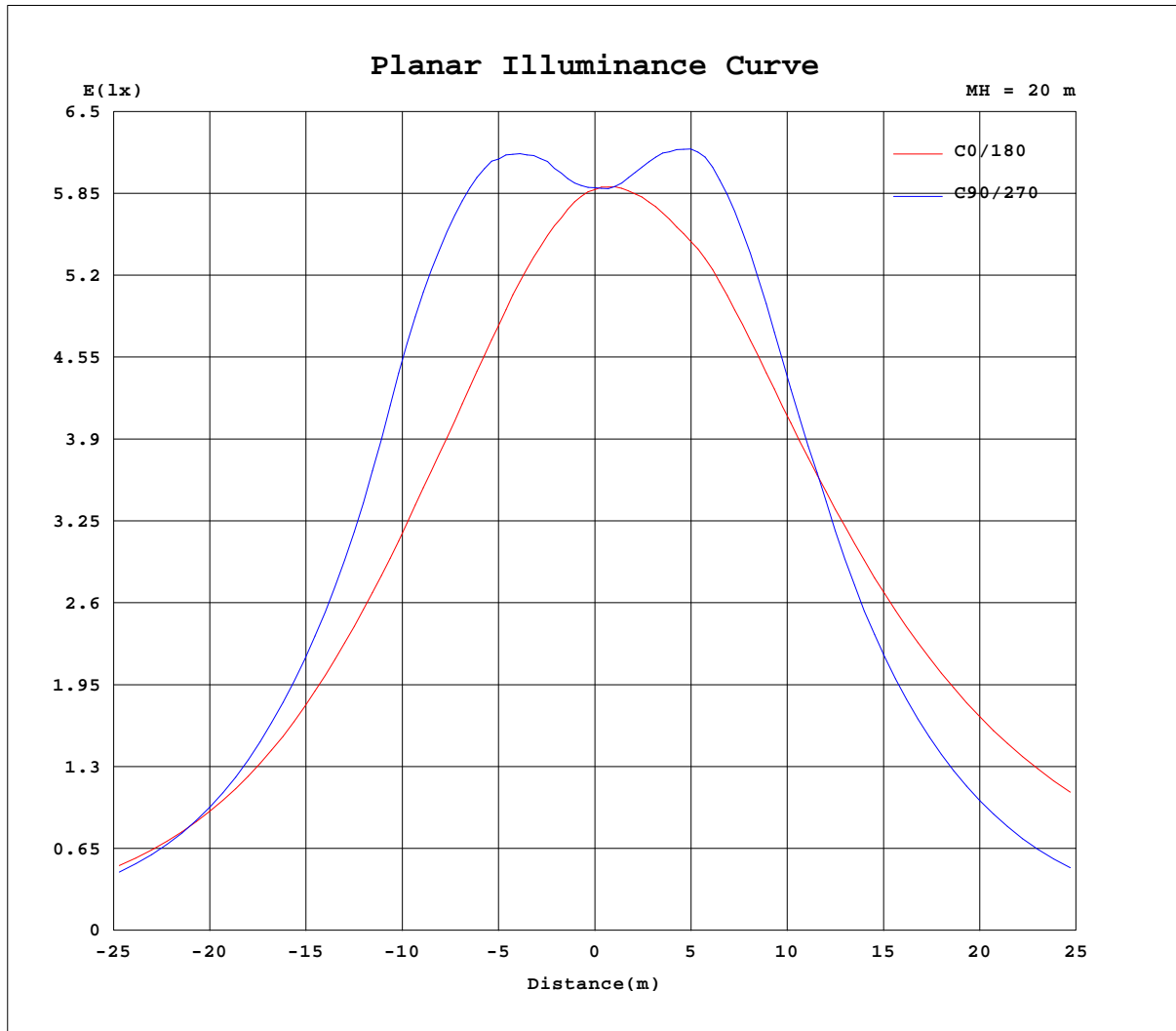
Test:U:120.16V I:0.4160A P:49.600W PF:0.9920 Freq:60.00Hz Lamp Flux:6050x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-9-13

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.1379]
 Remarks:

Planar Illuminance Curve



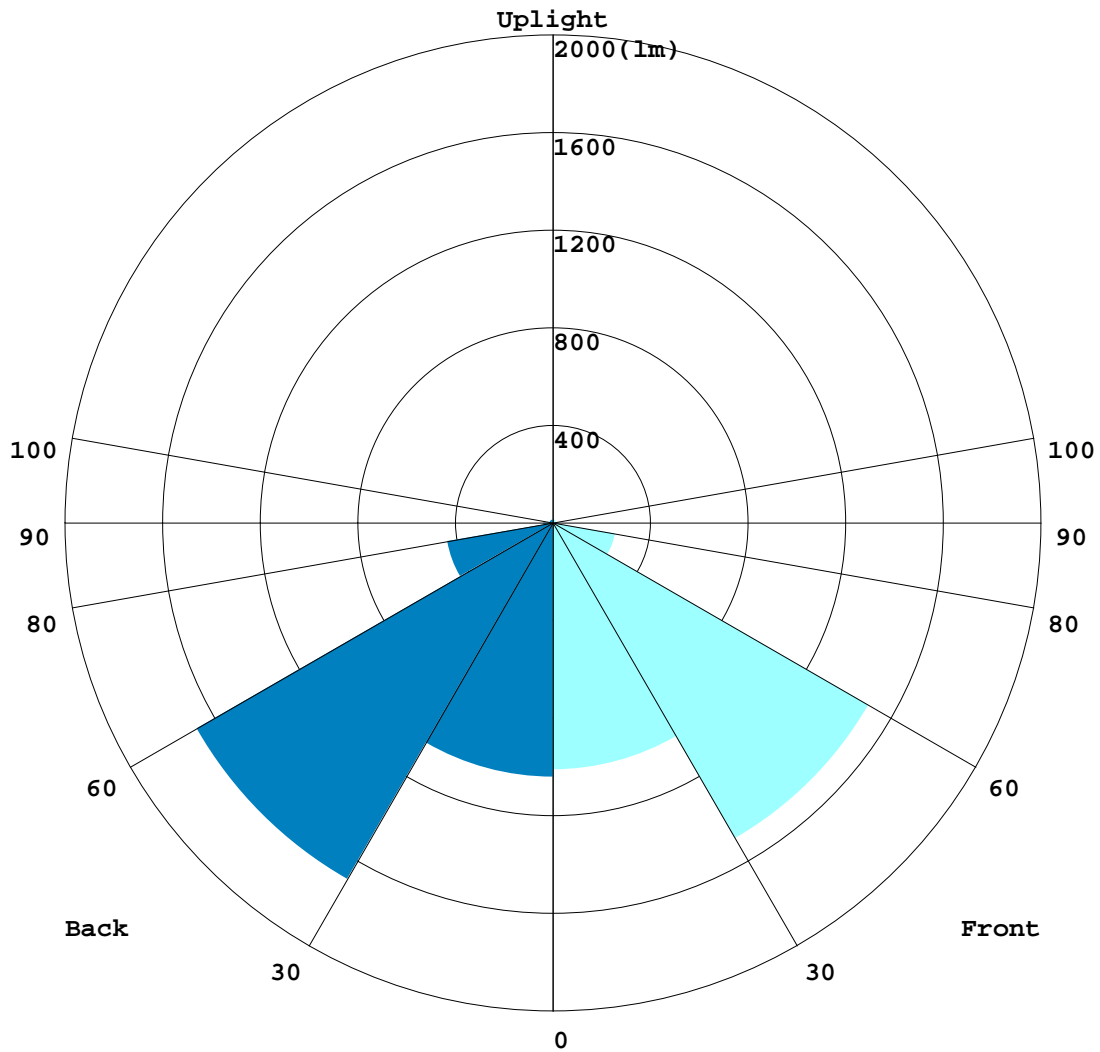
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-9-13

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.1379]
 Remarks:

LCS REPORT

Test:U:120.16V I:0.4160A P:49.600W PF:0.9920 Freq:60.00Hz Lamp Flux:6050x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-9-13

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1379]
 Remarks:

BUG REPORT

Test:U:120.16V I:0.4160A P:49.600W PF:0.9920 Freq:60.00Hz Lamp Flux:6050x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1011.7	16.8
FM - Front-Medium(30-60)	1493.9	24.8
FH - Front-High(60-80)	259.28	4.3
FVH - Front-Very High(80-90)	7.3808	0.1
Total Forward Light	2788	46.3

BL - Back-Low(0-30)	1041.4	17.3
BM - Back-Medium(30-60)	1685.9	28.0
BH - Back-High(60-80)	438.87	7.3
BVH - Back-Very High(80-90)	39.212	0.7
Total Back Light	3233.1	53.7

UL - Uplight-Low(90-100)	15.882	0.3
UH - Uplight-High(100-180)	27.566	0.5
Total Up Light	43.448	0.7

BUG(Back,Up,Glare) Rating	B3-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3205.4	27.663	3233.1
Street Side	2772.2	15.785	2788

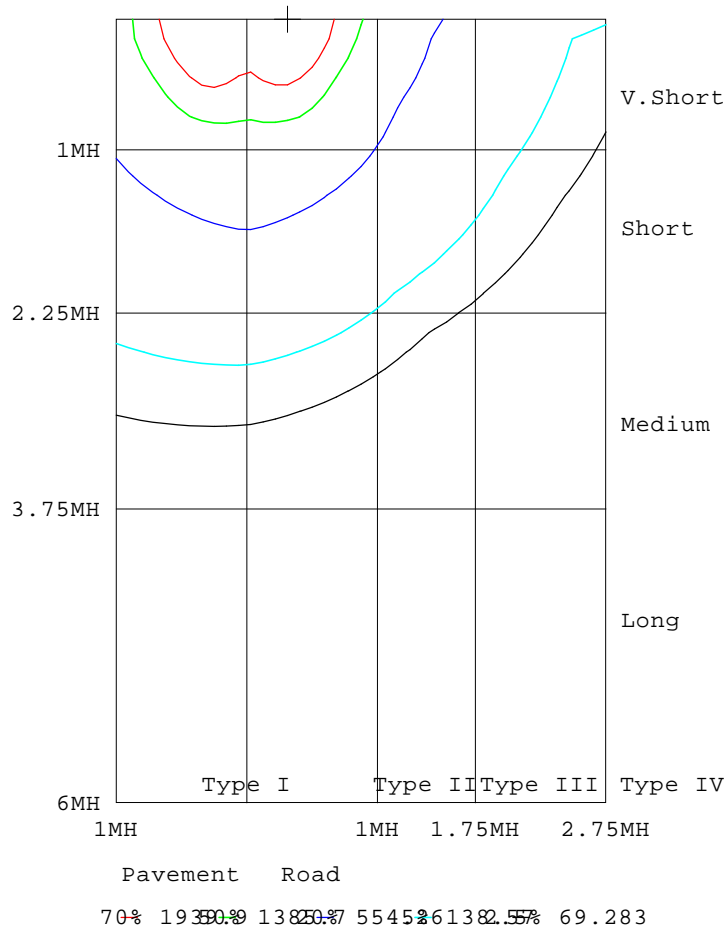
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-9-13

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.700m [K=1.1379]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.16V I:0.4160A P:49.600W PF:0.9920 Freq:60.00Hz Lamp Flux:6050x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-9-13

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1379]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.16V I:0.4160A P:49.600W PF:0.9920 Freq:60.00Hz Lamp Flux:6050x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2356	2356	2356	2356	2356	2356	2356	2356	2356	2356	2356	2356						
5	2291	2337	2398	2430	2422	2391	2379	2384	2398	2415	2376	2330						
10	2202	2329	2494	2575	2555	2446	2388	2429	2542	2581	2488	2325						
15	2085	2299	2560	2708	2678	2531	2405	2512	2691	2739	2579	2301						
20	1953	2228	2541	2734	2764	2597	2378	2604	2809	2749	2585	2246						
25	1816	2135	2404	2614	2769	2610	2313	2644	2777	2548	2399	2159						
30	1653	1968	2105	2244	2647	2606	2230	2666	2588	2235	2080	2009						
35	1476	1713	1687	1838	2305	2560	2142	2621	2296	1843	1746	1747						
40	1277	1418	1323	1468	1924	2442	2038	2483	1942	1493	1381	1438						
45	1074	1120	989	1106	1577	2267	1923	2265	1610	1167	1055	1139						
50	867	839	700	801	1238	2026	1792	1991	1284	855	773	862						
55	687	580	474	565	903	1736	1644	1697	969	609	539	615						
60	480	368	301	388	640	1414	1473	1400	688	417	358	410						
65	279	204	166	212	422	1070	1283	1092	457	271	229	251						
70	120	72.3	73.3	108	251	756	1078	734	276	153	124	129						
75	22.2	10.7	6.63	36.4	118	459	866	443	138	64.3	48.0	38.5						
80	5.97	2.63	1.84	2.77	43.9	203	599	205	59.7	18.6	10.5	4.74						
85	4.43	1.21	0.68	0.87	6.34	37.4	309	32.2	17.6	5.04	2.85	1.34						
90	1.75	1.38	0.59	0.22	0.67	13.5	145	37.7	11.1	1.59	0.80	1.37						
95	2.53	1.62	0.69	0.54	1.51	12.1	124	37.9	6.08	0.54	0.69	1.64						
100	3.33	2.36	1.09	0.63	1.36	2.91	23.5	13.0	2.38	0.54	0.98	2.38						
105	4.16	3.06	1.69	1.97	2.52	1.70	3.25	3.22	5.61	1.73	2.02	2.78						
110	5.13	3.73	2.31	1.76	1.73	1.97	2.36	2.43	4.64	2.89	2.97	3.53						
115	5.97	4.91	3.11	2.20	2.05	2.36	2.88	2.52	2.35	3.34	3.03	4.70						
120	6.84	5.38	3.97	2.97	2.86	2.92	3.47	2.81	2.36	3.09	3.59	5.23						
125	7.56	6.11	5.10	3.94	3.70	3.63	4.20	3.39	3.12	3.41	4.54	5.93						
130	8.11	6.79	6.19	5.00	4.63	4.37	5.06	4.18	3.96	4.45	5.64	6.54						
135	8.60	7.30	7.17	6.04	5.48	5.20	5.92	5.06	4.83	5.52	6.67	7.03						
140	8.87	7.77	7.83	7.05	6.28	6.03	6.79	5.91	5.71	6.56	7.26	7.64						
145	9.13	8.08	8.11	7.72	6.82	6.43	7.57	6.37	6.39	7.18	7.64	7.95						
150	9.41	9.31	8.34	7.97	7.62	6.92	6.74	6.80	7.22	7.56	8.06	9.18						
155	9.60	8.85	8.82	8.29	8.25	7.50	7.46	7.39	7.94	8.13	8.63	8.90						
160	9.79	9.66	9.42	8.58	8.95	9.14	8.18	9.27	8.70	8.42	9.29	9.55						
165	10.0	10.1	9.32	8.95	9.08	9.77	10.3	10.1	8.73	8.93	9.75	9.98						
170	10.2	10.6	10.1	9.60	9.71	9.70	10.5	9.50	9.40	9.49	10.1	10.3						
175	12.5	12.0	11.3	10.2	10.5	10.6	9.93	10.3	10.3	10.1	11.1	11.5						
180	10.6	10.5	10.4	10.7	10.9	11.0	10.4	10.5	10.6	10.3	10.5	10.4						

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-9-13

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1379]
 Remarks: