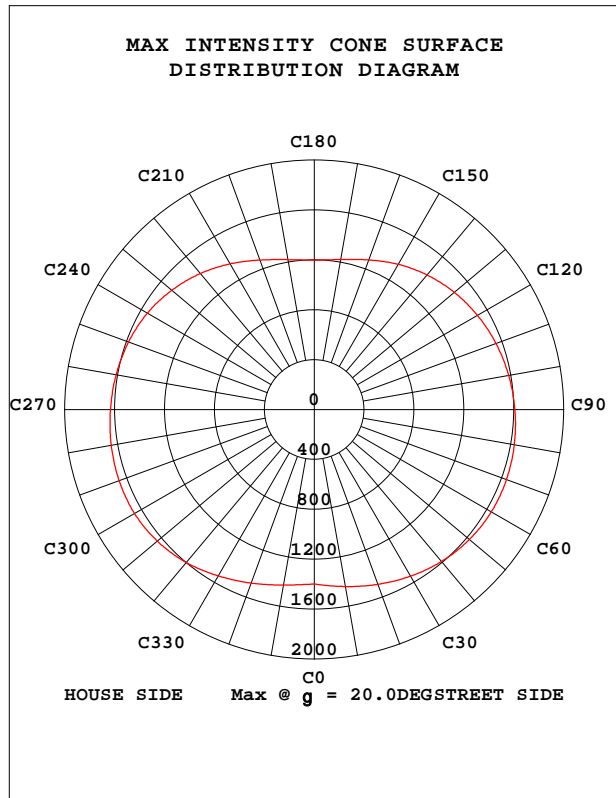
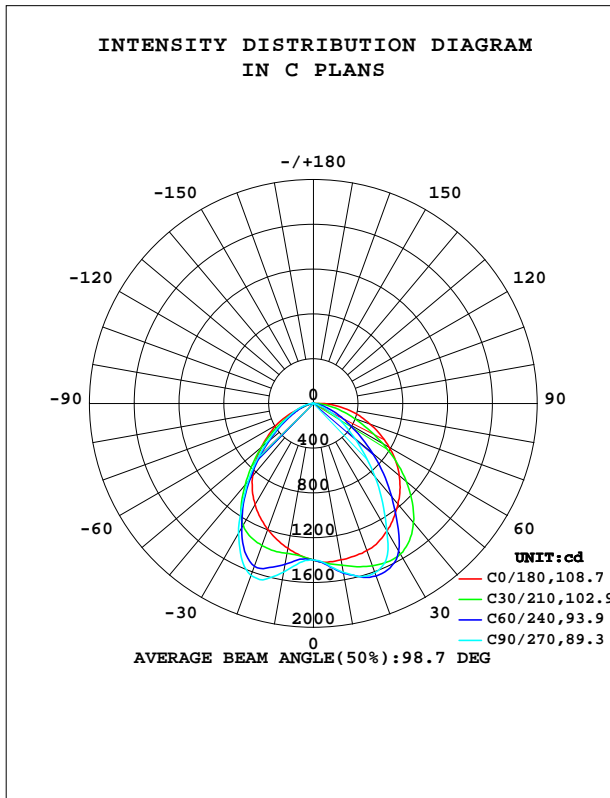


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:120.06V I:0.2520A P:29.770W PF:0.9830 Freq:60.00Hz Lamp Flux:3600x1 lm		
NAME:ASD-FLA-MV-30DAV-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: 122.37 lm/W			
MSDEELA-MV-30DAV-BK(3000K)		Imax(cd)	1665	h street_up(%)	0.3
NOMINAL POWER(W)	30	LOR(%)	100.0	h street_down(%)	50.8
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	3600	h house_up(%)	0.3
NOMINAL FLUX(lm)	3600	MAXIMUM @(C,g )	300,20.0	h house_down(%)	48.6
LAMPS INSIDE	1	h up(%)	0.5	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	120.0	h down(%)	99.5	SLI	19.001

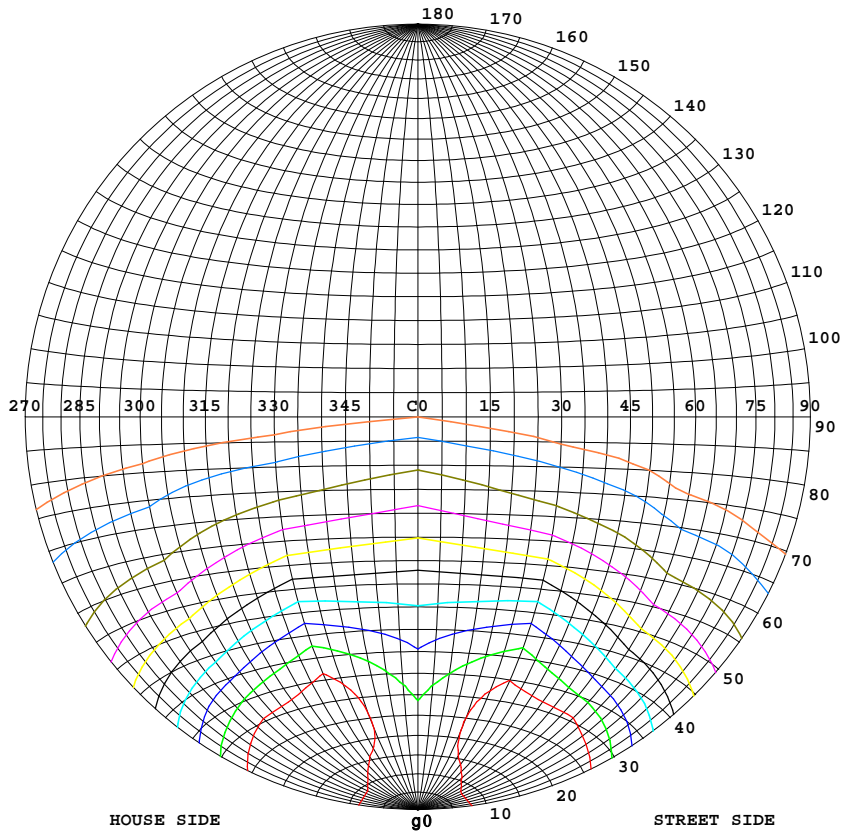


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-09-12

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=0.9885]  
 Remarks:

**STREETLIGHT ISOCANDELA DIAGRAM**

Test:U:120.06V I:0.2520A P:29.770W PF:0.9830 Freq:60.00Hz Lamp Flux:3600x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:



**Classification:**

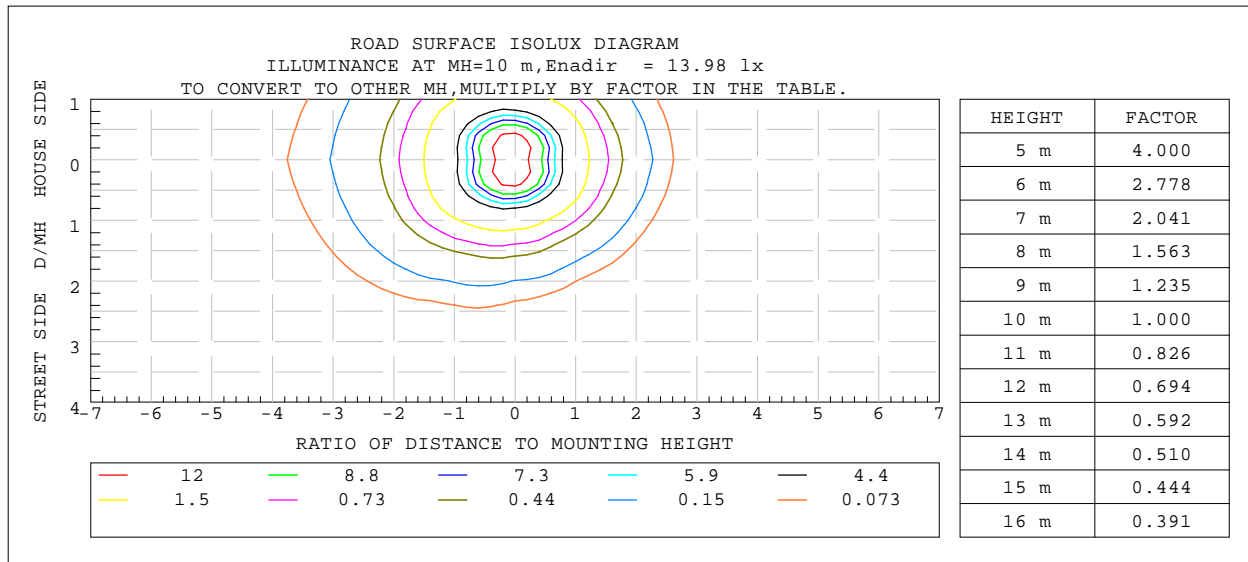
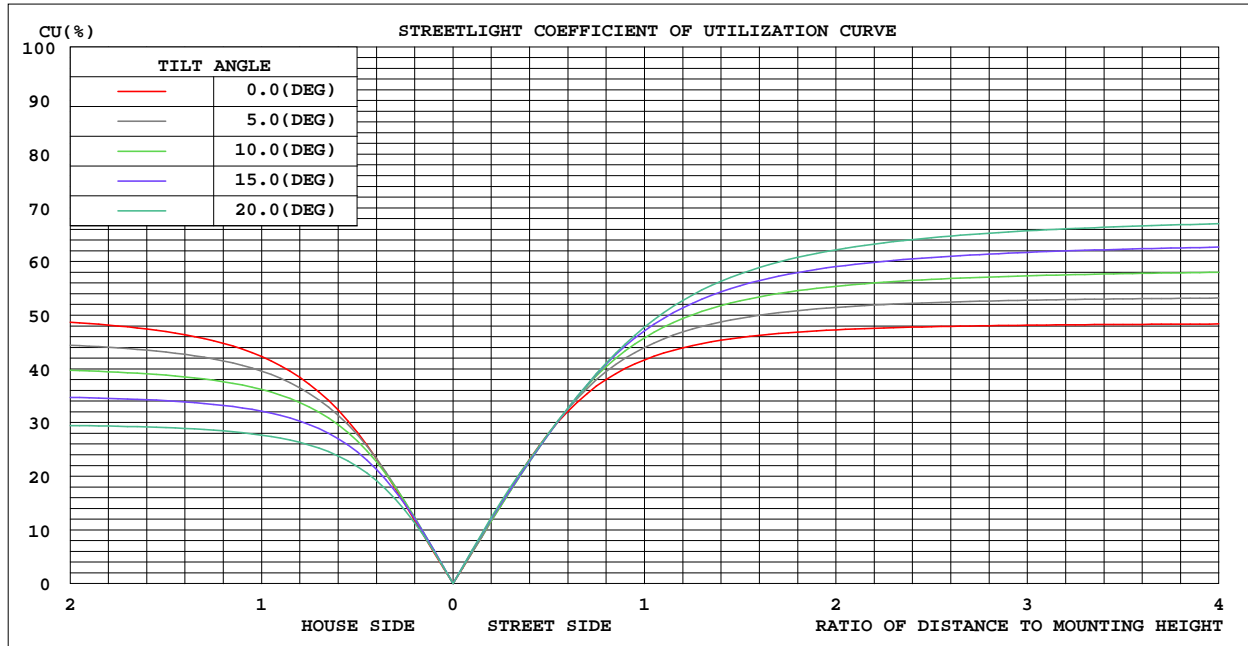
IES:Type I - Very Short  
 CIE:Narrow - Short  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:84.15cd/klm  
 Max.At90:22.84cd/klm  
 Max.80-90:84.15cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1665
90%	1498
80%	1332
70%	1165
60%	999
50%	832
40%	666
30%	499
20%	333
10%	166
5%	83

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-09-12

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=0.9885]  
 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: 2022-09-12

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=0.9885]  
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.06V I:0.2520A P:29.770W PF:0.9830 Freq:60.00Hz Lamp Flux:3600x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:

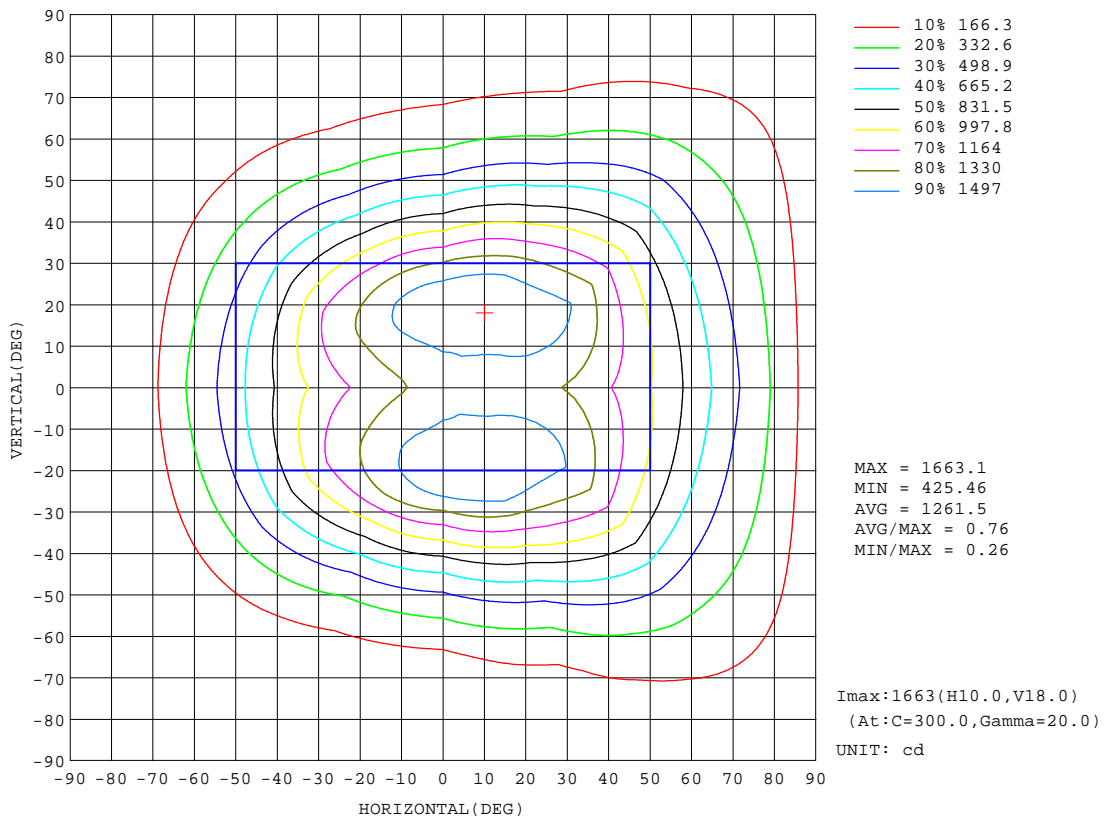
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1418	1503	1529	1424	1313	1408	1528	1485	0- 10	136.2	136.2	3.74,3.74
20	1398	1591	1608	1429	1198	1448	1634	1602	10- 20	421.6	557.8	15.3,15.3
30	1315	1539	1311	1262	1046	1270	1338	1545	20- 30	666.9	1225	33.6,33.6
40	1175	1240	861.1	889.3	847.2	916.5	907.5	1277	30- 40	750.4	1975	54.2,54.2
50	1002	885.3	479.3	528.0	608.4	559.9	541.7	918.9	40- 50	667.8	2643	72.6,72.6
60	781.4	540.3	247.2	250.9	383.8	283.3	288.2	582.2	50- 60	493.9	3137	86.1,86.1
70	537.5	275.1	75.34	70.61	141.2	119.0	146.7	319.3	60- 70	301.2	3438	94.4,94.4
80	306.5	103.1	0.4554	1.256	6.314	24.18	52.82	142.0	70- 80	141.9	3580	98.3,98.3
90	83.21	6.602	0.2188	0.4117	0.8644	0.8392	4.044	25.15	80- 90	43.34	3623	99.5,99.5
100	1.368	0.3484	0.5261	0.9925	1.723	1.160	0.3956	0.3387	90-100	3.328	3627	99.6,99.6
110	1.050	0.8555	1.099	1.821	2.686	2.080	0.9885	0.8258	100-110	1.130	3628	99.6,99.6
120	1.867	1.628	1.984	2.842	3.757	3.147	1.977	1.657	110-120	1.846	3630	99.6,99.6
130	2.751	2.572	3.161	3.761	4.678	4.187	3.362	2.683	120-130	2.554	3632	99.7,99.7
140	3.620	3.567	4.395	4.519	5.323	4.918	4.580	3.696	130-140	2.957	3635	99.8,99.8
150	4.411	4.395	5.165	5.140	5.749	5.370	5.310	4.527	140-150	2.908	3638	99.9,99.9
160	5.238	5.183	5.742	5.814	6.197	5.953	5.684	5.160	150-160	2.434	3641	99.9,99.9
170	5.935	6.062	6.477	6.535	6.504	6.632	6.330	6.067	160-170	1.673	3642	100,100
180	6.670	6.824	7.293	6.840	6.602	6.915	7.028	6.874	170-180	0.6286	3643	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:2022-09-12

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=0.9885]  
 Remarks:

ISOCANDELA DIAGRAM

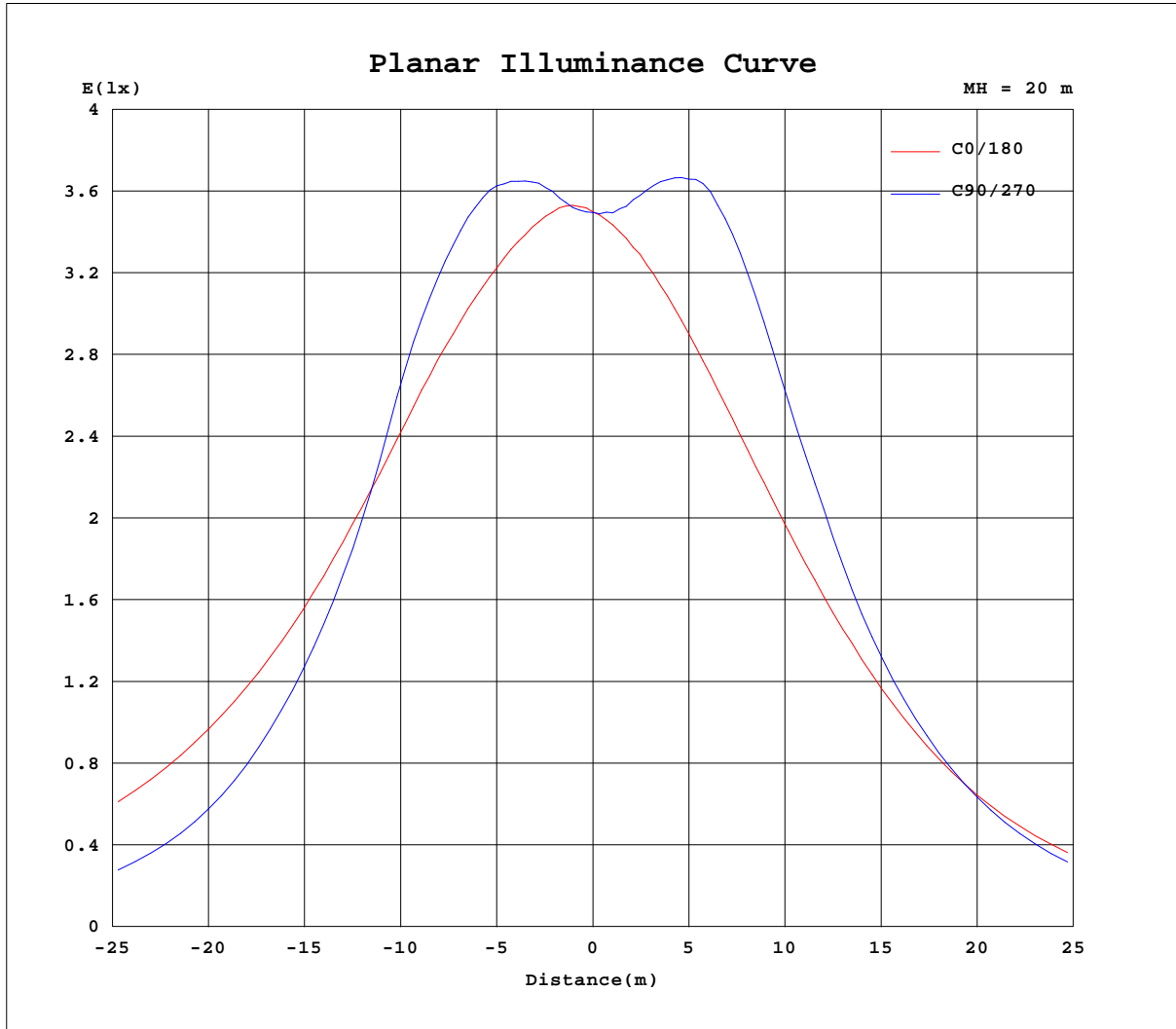
Test:U:120.06V I:0.2520A P:29.770W PF:0.9830 Freq:60.00Hz Lamp Flux:3600x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-09-12

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=0.9885]  
 Remarks:

Planar Illuminance Curve



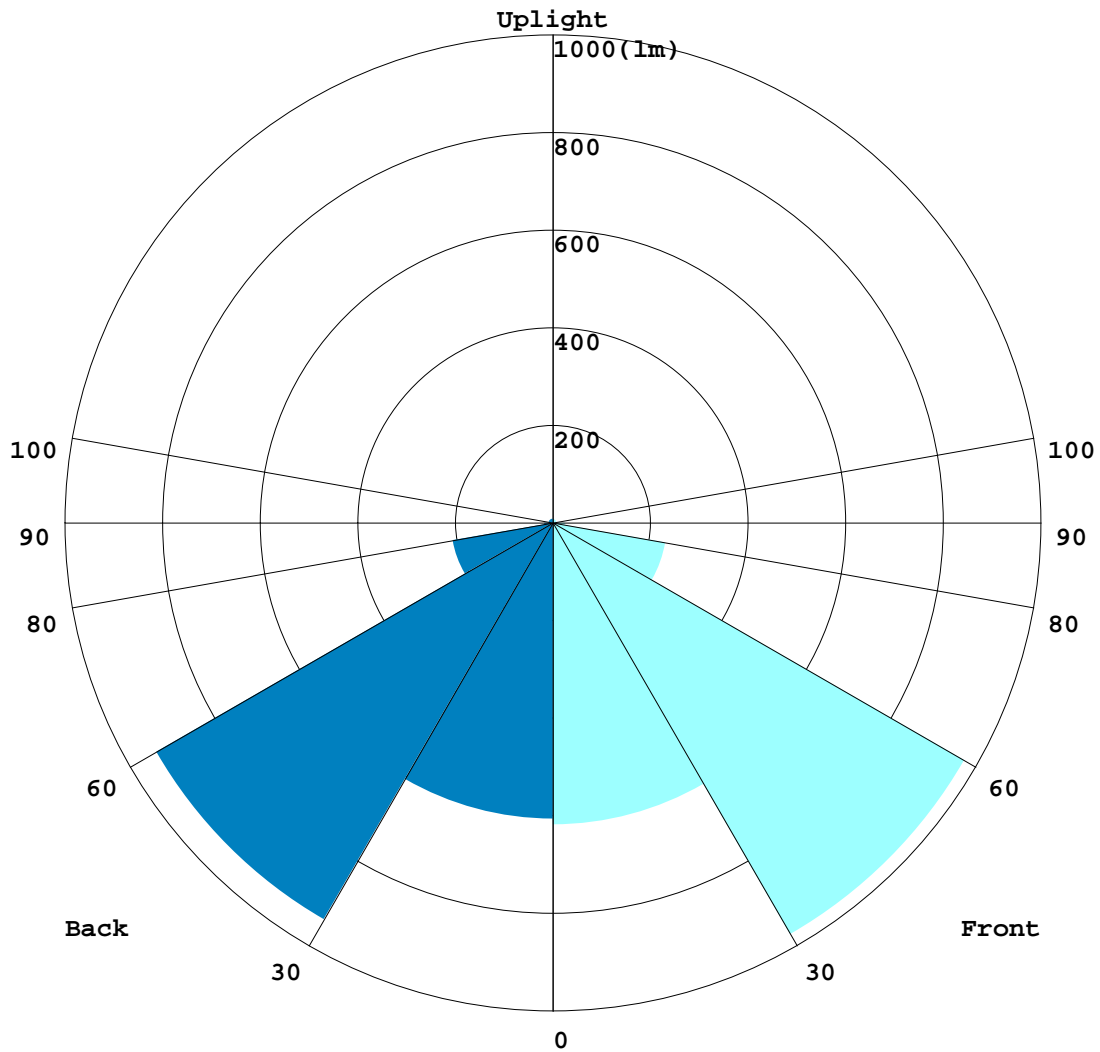
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-09-12

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=0.9885]  
 Remarks:

LCS REPORT

Test:U:120.06V I:0.2520A P:29.770W PF:0.9830 Freq:60.00Hz Lamp Flux:3600x1 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:2022-09-12

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=0.9885]  
 Remarks:

## BUG REPORT

Test:U:120.06V I:0.2520A P:29.770W PF:0.9830 Freq:60.00Hz Lamp Flux:3600x1 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)	618.39	17.0
FM - Front-Medium(30-60)	973.64	26.7
FH - Front-High(60-80)	234.79	6.4
FVH - Front-Very High(80-90)	25.342	0.7
Total Forward Light	1861.9	51.1

BL - Back-Low(0-30)	606.33	16.6
BM - Back-Medium(30-60)	938.5	25.8
BH - Back-High(60-80)	208.39	5.7
BVH - Back-Very High(80-90)	17.993	0.5
Total Back Light	1781	48.9

UL - Uplight-Low(90-100)	3.3276	0.1
UH - Uplight-High(100-180)	16.129	0.4
Total Up Light	19.457	0.5

BUG(Back,Up,Glare) Rating	B2-U2-G1
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1771.2	9.7683	1781
Street Side	1852.2	9.6885	1861.9

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-09-12

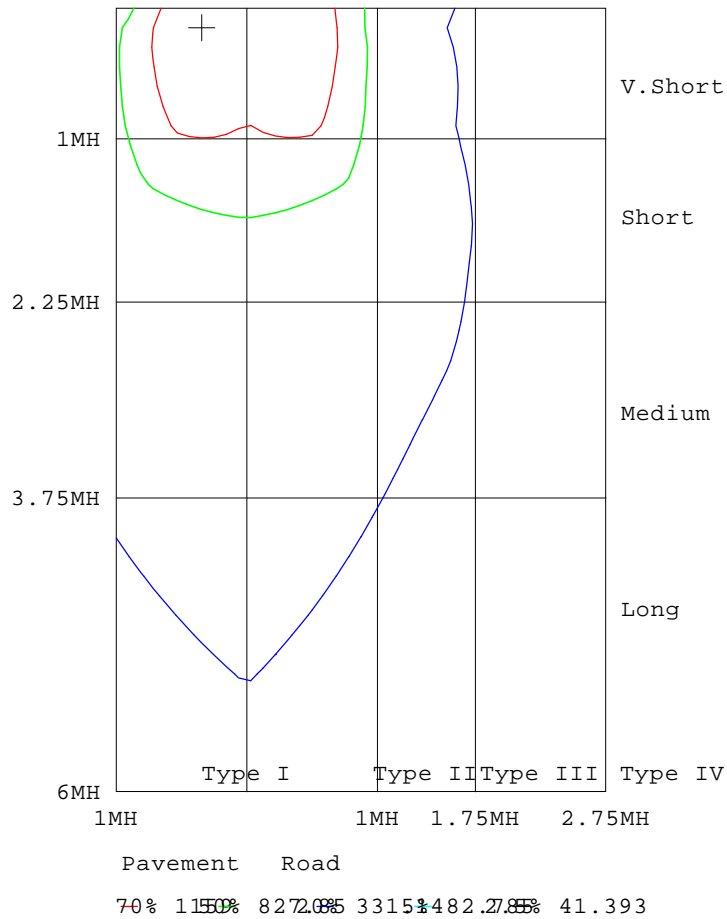
g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:8.700m [K=0.9885]  
Remarks:



ROAD ISOCANDELA REPORT

Test:U:120.06V I:0.2520A P:29.770W PF:0.9830 Freq:60.00Hz Lamp Flux:3600x1 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:2022-09-12

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=0.9885]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.06V I:0.2520A P:29.770W PF:0.9830 Freq:60.00Hz Lamp Flux:3600x1 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	1399	1399	1399	1399	1399	1399	1399	1399	1399	1399	1399	1399						
5	1423	1432	1450	1444	1417	1378	1362	1368	1396	1427	1434	1428						
10	1418	1468	1538	1529	1472	1375	1313	1360	1457	1528	1522	1448						
15	1412	1509	1601	1600	1512	1373	1260	1363	1517	1624	1607	1494						
20	1398	1542	1639	1608	1511	1346	1198	1350	1546	1634	1665	1539						
25	1367	1561	1621	1539	1447	1304	1125	1320	1457	1522	1638	1567						
30	1315	1554	1524	1311	1293	1231	1046	1257	1283	1338	1518	1573						
35	1249	1495	1307	1078	1047	1109	952	1129	1094	1114	1347	1524						
40	1175	1391	1090	861	832	947	847	950	883	907	1141	1413						
45	1094	1252	888	653	635	771	729	772	688	719	942	1256						
50	1002	1084	687	479	457	599	608	603	517	542	755	1082						
55	899	901	511	346	316	434	489	447	370	398	586	904						
60	781	713	368	247	210	292	384	311	256	288	430	734						
65	662	539	257	137	116	179	255	199	176	208	309	572						
70	538	389	161	75.3	55.2	86.0	141	120	118	147	219	420						
75	428	265	96.8	27.8	12.4	26.2	55.8	57.7	71.6	95.4	152	293						
80	307	165	41.3	0.46	0.48	2.03	6.31	15.4	32.9	52.8	99.2	185						
85	183	77.2	1.92	0.15	0.23	0.61	1.15	1.88	7.80	21.4	51.4	102						
90	83.2	13.0	0.16	0.22	0.27	0.56	0.86	0.77	0.91	4.04	14.3	36.0						
95	0.51	1.30	0.17	0.33	0.43	0.88	1.25	1.12	0.53	0.41	0.81	0.42						
100	1.37	0.40	0.30	0.53	0.69	1.29	1.72	1.55	0.77	0.40	0.28	0.40						
105	0.74	0.64	0.50	0.78	1.03	1.74	2.19	2.06	1.13	0.73	0.47	0.61						
110	1.05	0.96	0.75	1.10	1.43	2.21	2.69	2.59	1.57	0.99	0.75	0.91						
115	1.44	1.33	1.09	1.52	1.90	2.73	3.25	3.15	2.09	1.44	1.12	1.31						
120	1.87	1.74	1.51	1.98	2.44	3.24	3.76	3.63	2.66	1.98	1.57	1.74						
125	2.31	2.17	1.99	2.53	2.99	3.69	4.27	4.12	3.27	2.65	2.12	2.19						
130	2.75	2.64	2.51	3.16	3.49	4.03	4.68	4.50	3.88	3.36	2.69	2.67						
135	3.18	3.08	3.01	3.79	3.96	4.38	5.03	4.81	4.36	4.01	3.29	3.12						
140	3.62	3.52	3.62	4.39	4.36	4.68	5.32	5.04	4.79	4.58	3.83	3.56						
145	3.99	3.96	4.13	4.91	4.70	4.96	5.54	5.30	5.04	5.03	4.31	4.00						
150	4.41	4.38	4.41	5.16	5.01	5.27	5.75	5.52	5.22	5.31	4.68	4.38						
155	4.89	4.78	4.81	5.42	5.26	5.66	6.00	5.85	5.56	5.57	4.95	4.74						
160	5.24	5.18	5.19	5.74	5.59	6.04	6.20	6.14	5.77	5.68	5.23	5.09						
165	5.59	5.58	5.62	5.97	6.02	6.35	6.43	6.50	6.12	5.95	5.61	5.53						
170	5.94	5.95	6.17	6.48	6.41	6.66	6.50	6.71	6.55	6.33	6.18	5.95						
175	6.43	6.47	6.72	6.92	6.85	6.88	6.59	6.94	6.93	6.76	6.76	6.41						
180	6.67	6.82	6.83	7.29	6.86	6.82	6.60	6.87	6.96	7.03	6.97	6.78						

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-09-12

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=0.9885]  
 Remarks: