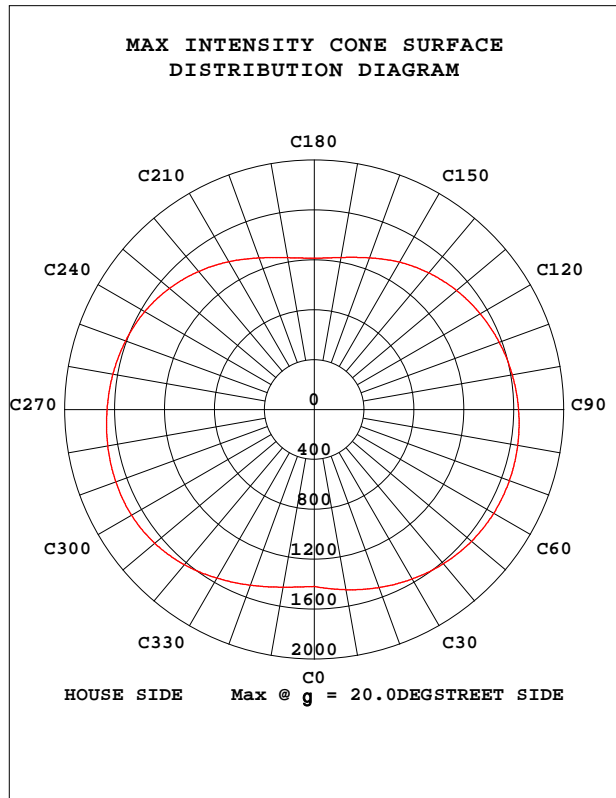
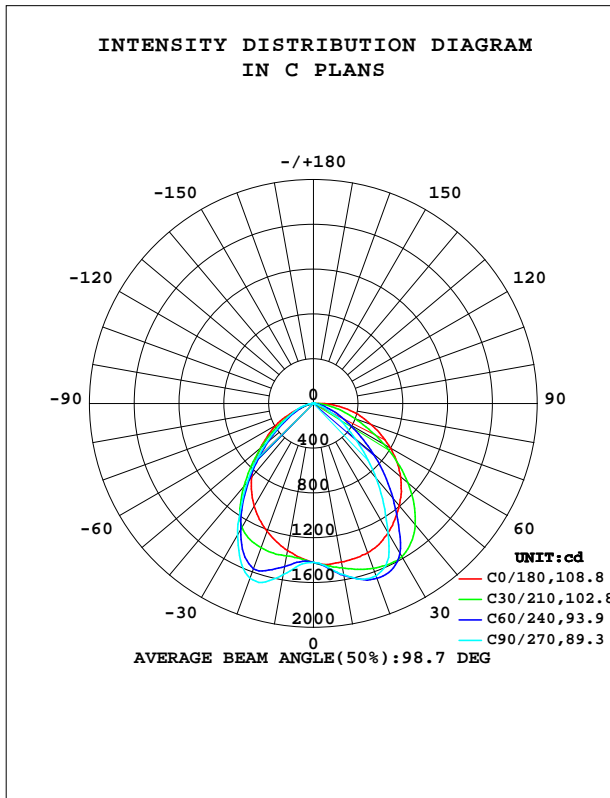


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.09V I:0.2410A P:28.400W PF:0.9830 Freq:60.00Hz Lamp Flux:3698.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.21 lm/W			
MSDEELA-MV-30DAV-BK(3500K)		Imax(cd)	1693	h street_up(%)	0.3
NOMINAL POWER(W)	30	LOR(%)	100.0	h street_down(%)	50.9
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	3698	h house_up(%)	0.3
NOMINAL FLUX(lm)	3698.06	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	19.022

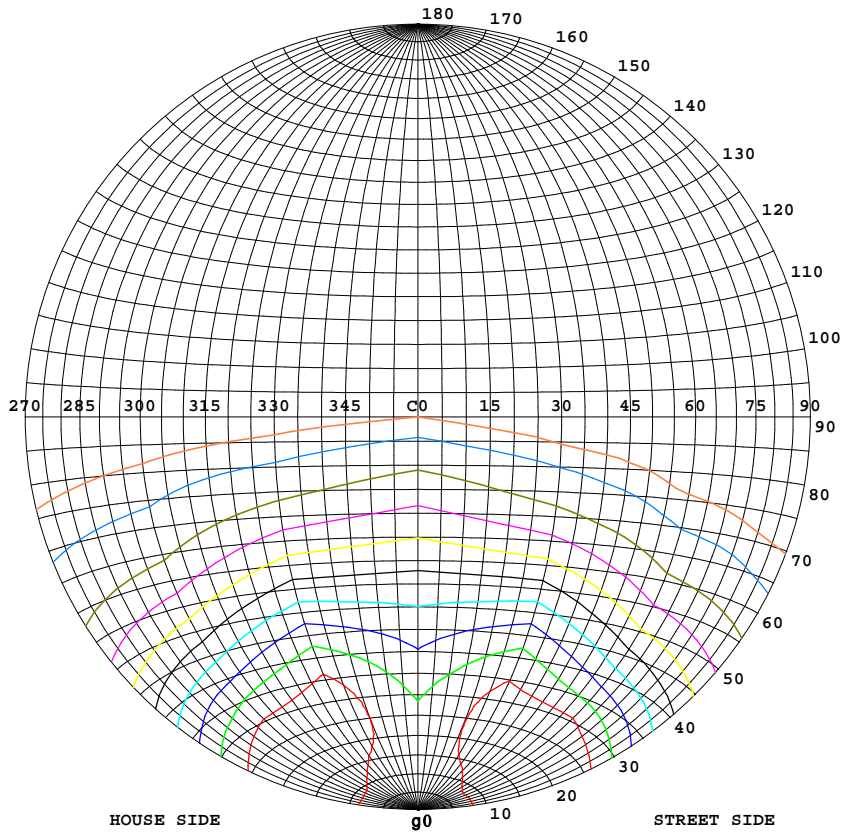


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-09-12

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=0.9943]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.09V I:0.2410A P:28.400W PF:0.9830 Freq:60.00Hz Lamp Flux:3698.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:



Classification:

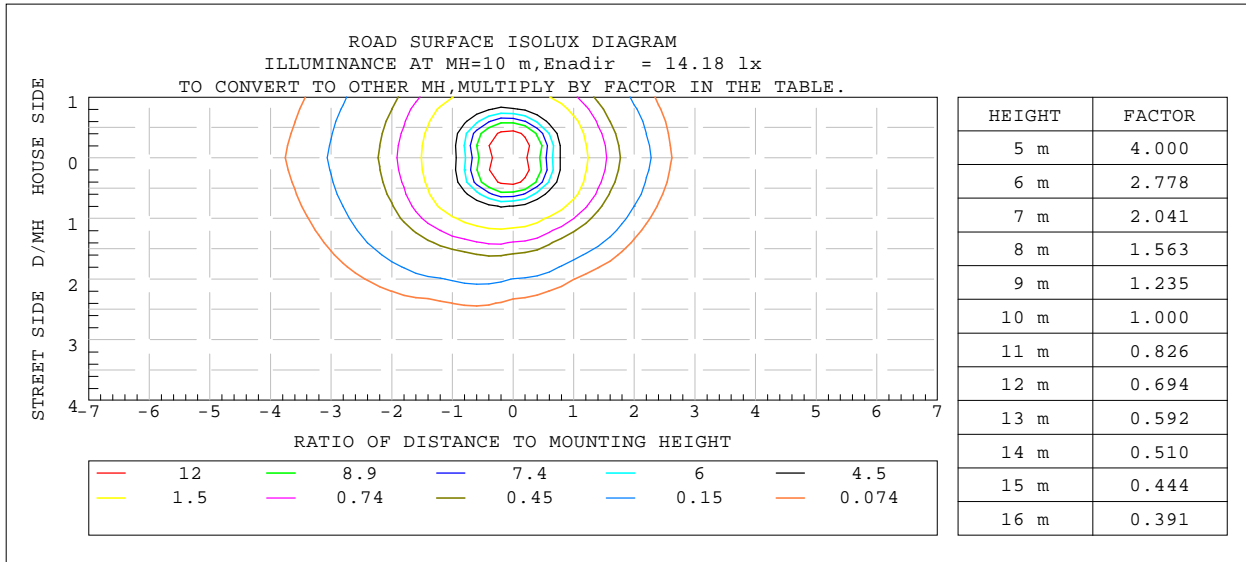
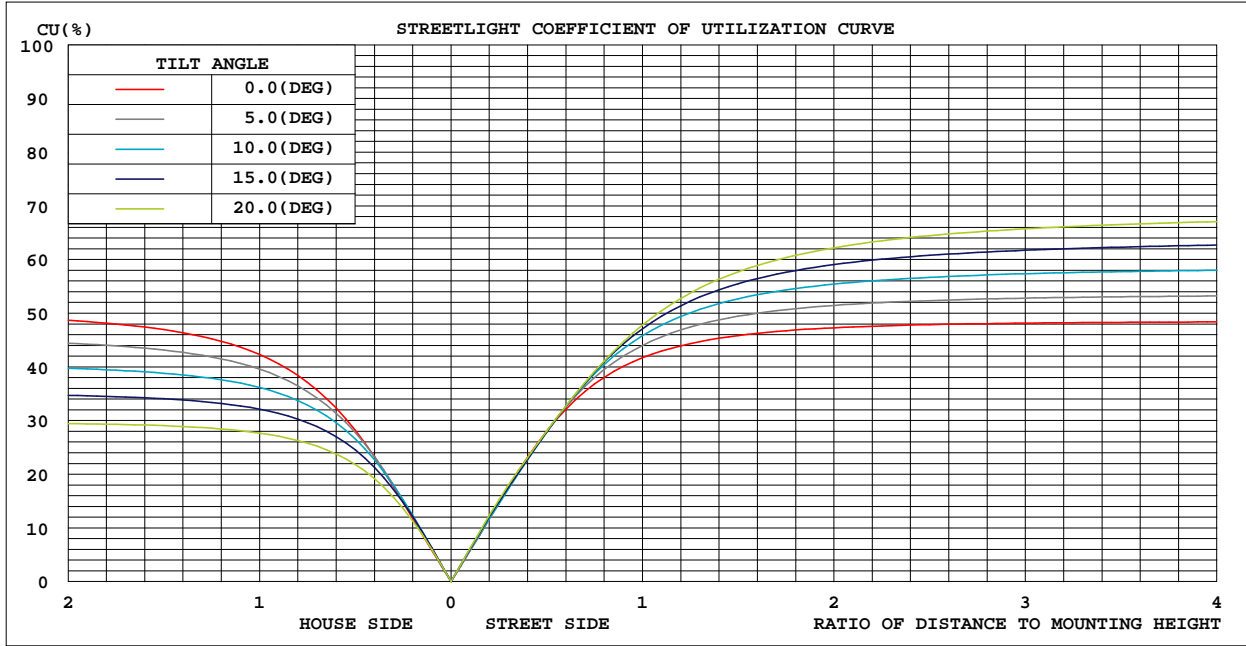
IES:Type I - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:84.09cd/klm
 Max.At90:22.87cd/klm
 Max.80-90:84.09cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1693
90%	1524
80%	1354
70%	1185
60%	1016
50%	847
40%	677
30%	508
20%	339
10%	169
5%	85

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=0.9943]
 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=0.9943]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.09V I:0.2410A P:28.400W PF:0.9830 Freq:60.00Hz Lamp Flux:3698.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:

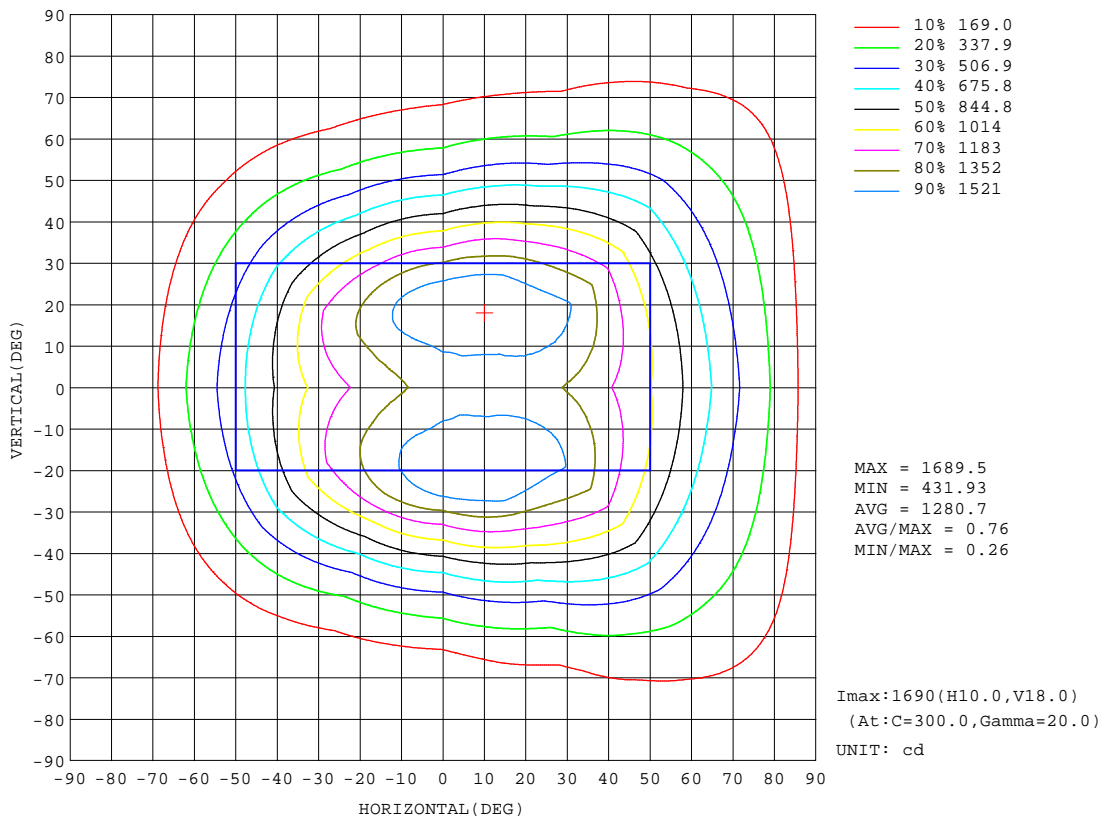
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1438	1524	1550	1445	1334	1431	1551	1509	0- 10	138.3	138.3	3.74,3.74
20	1418	1615	1637	1451	1213	1471	1661	1626	10- 20	428.1	566.4	15.3,15.3
30	1333	1564	1335	1282	1059	1290	1360	1568	20- 30	677.0	1243	33.6,33.6
40	1191	1261	875.5	902.4	858.9	929.6	921.3	1296	30- 40	761.8	2005	54.2,54.2
50	1016	899.3	486.9	535.4	617.0	568.1	550.0	932.8	40- 50	678.0	2683	72.6,72.6
60	793.0	548.7	251.2	255.2	388.9	287.4	292.5	591.2	50- 60	501.4	3185	86.1,86.1
70	545.3	279.7	76.68	71.68	143.3	120.8	149.1	324.1	60- 70	305.9	3491	94.4,94.4
80	311.0	104.7	0.4557	1.331	6.398	24.44	53.56	144.1	70- 80	144.1	3635	98.3,98.3
90	84.59	6.811	0.2108	0.5192	0.8476	0.7754	4.083	25.48	80- 90	44.01	3679	99.5,99.5
100	1.378	0.3710	0.4851	1.167	1.715	1.039	0.3372	0.2952	90-100	3.286	3682	99.6,99.6
110	1.056	0.9076	1.028	2.105	2.715	1.934	0.8585	0.7536	100-110	1.130	3683	99.6,99.6
120	1.840	1.689	1.877	3.162	3.740	2.981	1.759	1.597	110-120	1.846	3685	99.6,99.6
130	2.760	2.697	2.984	4.131	4.619	3.990	3.023	2.622	120-130	2.548	3687	99.7,99.7
140	3.633	3.707	4.159	4.848	5.207	4.765	4.262	3.660	130-140	2.950	3690	99.8,99.8
150	4.459	4.542	4.964	5.381	5.602	5.313	5.053	4.493	140-150	2.905	3693	99.9,99.9
160	5.222	5.176	5.502	5.845	6.101	5.942	5.585	5.173	150-160	2.431	3696	99.9,99.9
170	5.921	6.054	6.340	6.511	6.595	6.652	6.328	6.056	160-170	1.668	3697	100,100
180	6.685	6.912	7.019	6.896	6.685	6.957	7.009	6.917	170-180	0.6280	3698	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=0.9943]
 Remarks:

ISOCANDELA DIAGRAM

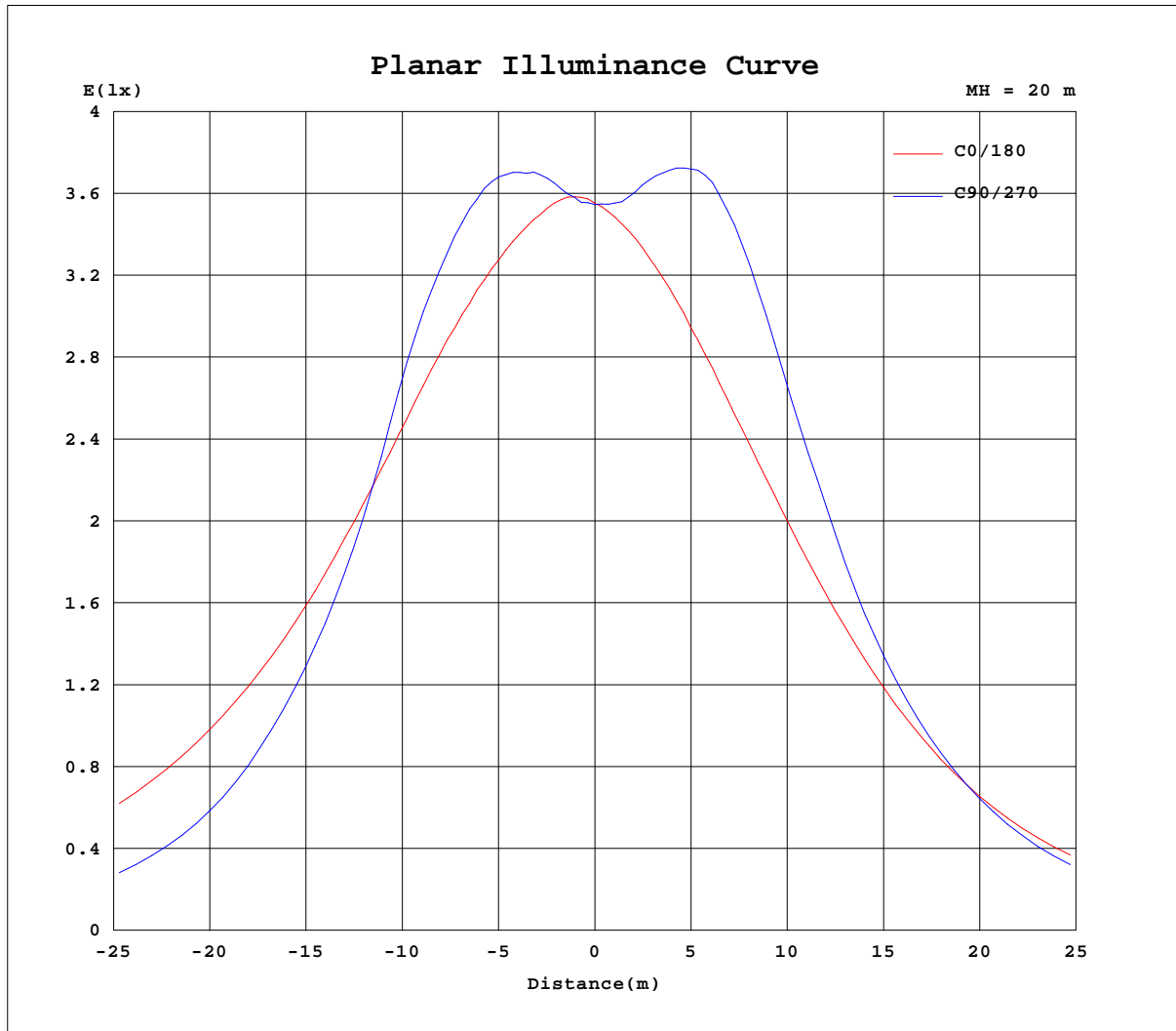
Test:U:120.09V I:0.2410A P:28.400W PF:0.9830 Freq:60.00Hz Lamp Flux:3698.06x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTNG CORP	SUR.: 0.1*0.05	Shielding Angle:



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=0.9943]
 Remarks:

Planar Illuminance Curve



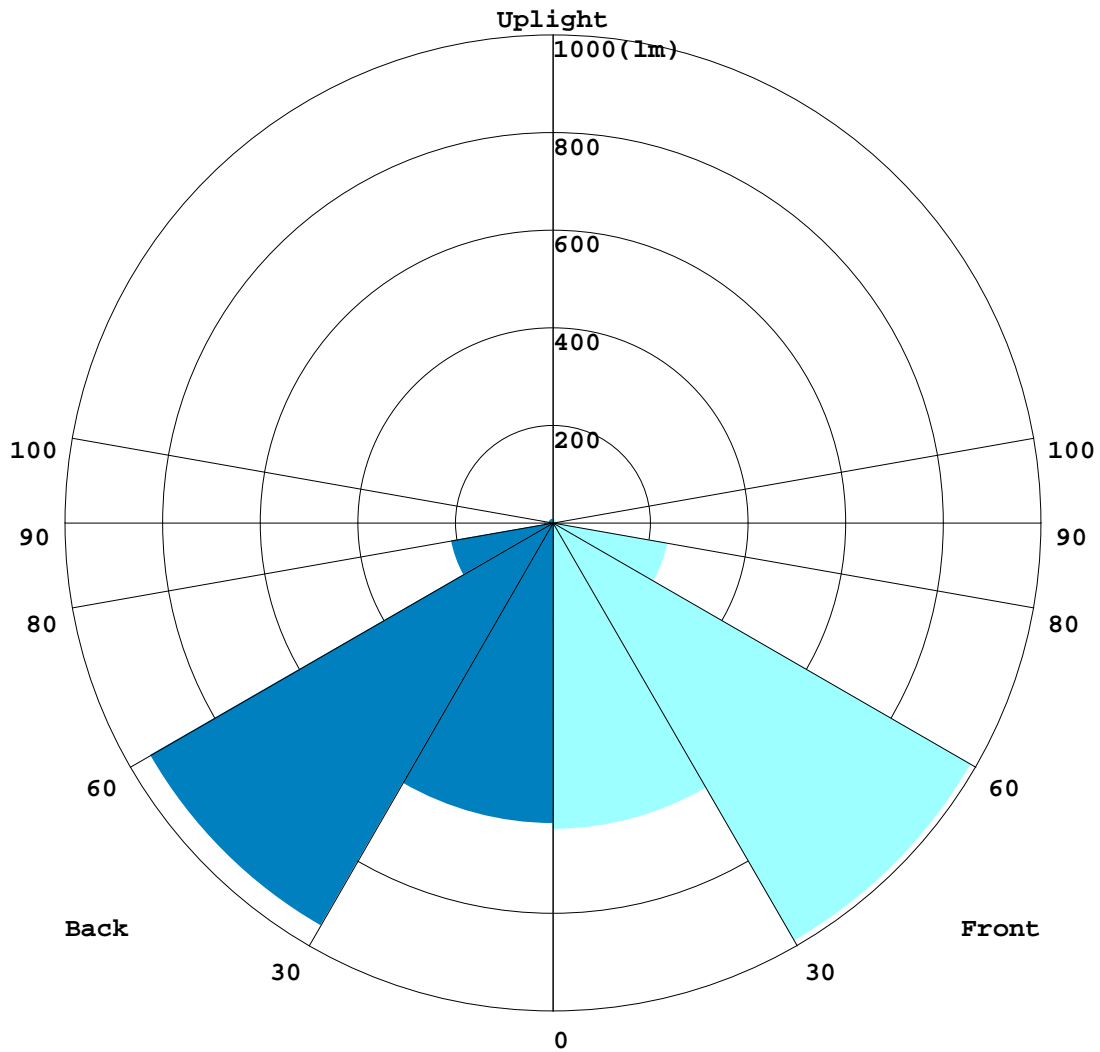
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-09-12

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=0.9943]
 Remarks:

LCS REPORT

Test:U:120.09V I:0.2410A P:28.400W PF:0.9830 Freq:60.00Hz Lamp Flux:3698.06x1 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=0.9943]
 Remarks:

BUG REPORT

Test:U:120.09V I:0.2410A P:28.400W PF:0.9830 Freq:60.00Hz Lamp Flux:3698.06x1 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)	627.85	17.0
FM - Front-Medium(30-60)	988.68	26.7
FH - Front-High(60-80)	238.53	6.5
FVH - Front-Very High(80-90)	25.775	0.7
Total Forward Light	1890.7	51.1

BL - Back-Low(0-30)	615.58	16.6
BM - Back-Medium(30-60)	952.5	25.8
BH - Back-High(60-80)	211.51	5.7
BVH - Back-Very High(80-90)	18.237	0.5
Total Back Light	1807.3	48.9

UL - Uplight-Low(90-100)	3.2856	0.1
UH - Uplight-High(100-180)	16.107	0.4
Total Up Light	19.393	0.5

BUG(Back,Up,Glare) Rating	B2-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1797.8	9.495	1807.3
Street Side	1880.8	9.8977	1890.7

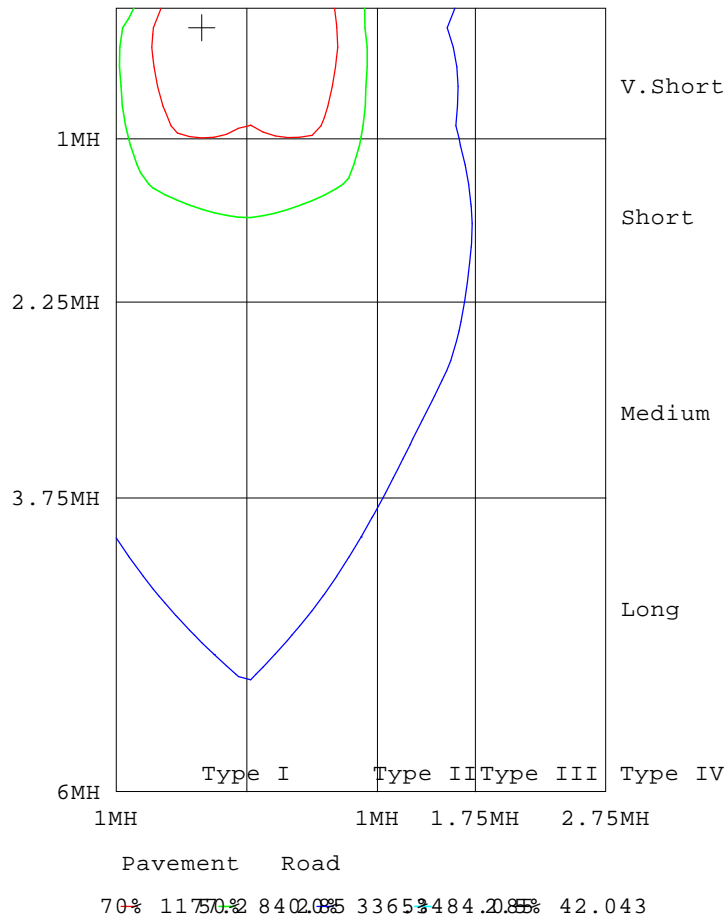
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-09-12

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=0.9943]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.09V I:0.2410A P:28.400W PF:0.9830 Freq:60.00Hz Lamp Flux:3698.06x1 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=0.9943]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.09V I:0.2410A P:28.400W PF:0.9830 Freq:60.00Hz Lamp Flux:3698.06x1 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	1419	1419	1419	1419	1419	1419	1419	1419	1419	1419	1419	1419						
5	1443	1457	1474	1467	1441	1396	1382	1391	1420	1451	1456	1446						
10	1438	1490	1557	1550	1494	1396	1334	1383	1479	1551	1546	1472						
15	1433	1534	1625	1625	1538	1391	1279	1383	1540	1649	1631	1516						
20	1418	1568	1662	1637	1536	1366	1213	1370	1571	1661	1693	1560						
25	1388	1586	1644	1561	1469	1323	1143	1340	1478	1544	1661	1592						
30	1333	1582	1546	1335	1314	1250	1059	1278	1303	1360	1542	1594						
35	1269	1518	1325	1094	1064	1125	966	1146	1110	1130	1367	1548						
40	1191	1415	1107	875	845	960	859	965	894	921	1159	1433						
45	1111	1272	900	664	644	782	741	784	699	730	957	1275						
50	1016	1102	697	487	464	607	617	612	524	550	767	1098						
55	912	917	519	352	321	441	496	454	376	404	594	917						
60	793	725	373	251	213	297	389	315	259	292	437	746						
65	671	548	261	140	118	182	258	203	178	211	314	580						
70	545	395	164	76.7	56.1	87.2	143	122	120	149	222	426						
75	434	270	98.3	28.3	12.7	26.6	56.8	58.6	72.7	96.8	154	297						
80	311	167	42.0	0.46	0.53	2.13	6.40	15.5	33.3	53.6	101	187						
85	186	78.8	1.98	0.16	0.30	0.70	1.15	1.83	7.87	21.7	52.2	104						
90	84.6	13.4	0.20	0.21	0.36	0.68	0.85	0.67	0.88	4.08	14.4	36.5						
95	0.49	0.23	0.24	0.31	0.57	1.03	1.24	0.97	0.54	0.38	0.81	0.38						
100	1.38	0.36	0.38	0.49	0.86	1.47	1.72	1.38	0.70	0.34	0.24	0.35						
105	0.75	0.60	0.62	0.72	1.24	1.94	2.19	1.86	1.05	0.63	0.42	0.55						
110	1.06	0.89	0.92	1.03	1.71	2.50	2.71	2.39	1.48	0.86	0.68	0.83						
115	1.44	1.22	1.30	1.43	2.23	3.01	3.27	2.92	1.97	1.28	1.04	1.22						
120	1.84	1.63	1.75	1.88	2.83	3.49	3.74	3.41	2.55	1.76	1.50	1.69						
125	2.32	2.08	2.29	2.41	3.42	3.94	4.22	3.89	3.16	2.34	2.02	2.16						
130	2.76	2.55	2.84	2.98	3.96	4.30	4.62	4.27	3.71	3.02	2.57	2.67						
135	3.19	2.98	3.45	3.58	4.48	4.58	4.94	4.55	4.25	3.65	3.14	3.13						
140	3.63	3.40	4.02	4.16	4.88	4.81	5.21	4.84	4.69	4.26	3.76	3.56						
145	4.04	3.82	4.47	4.63	5.17	5.09	5.43	5.15	4.98	4.77	4.22	4.00						
150	4.46	4.24	4.85	4.96	5.36	5.40	5.60	5.42	5.21	5.05	4.61	4.38						
155	4.91	4.66	5.16	5.25	5.47	5.67	5.86	5.78	5.52	5.37	4.97	4.78						
160	5.22	4.96	5.39	5.50	5.71	5.98	6.10	6.14	5.75	5.59	5.24	5.11						
165	5.55	5.42	5.74	5.85	6.07	6.23	6.49	6.49	6.13	5.93	5.66	5.62						
170	5.92	5.87	6.24	6.34	6.52	6.51	6.60	6.71	6.59	6.33	6.12	5.99						
175	6.35	6.38	6.81	6.83	6.87	6.75	6.68	6.99	6.97	6.83	6.66	6.51						
180	6.68	6.79	7.04	7.02	7.01	6.78	6.68	6.89	7.02	7.01	6.97	6.86						

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=0.9943]
 Remarks: