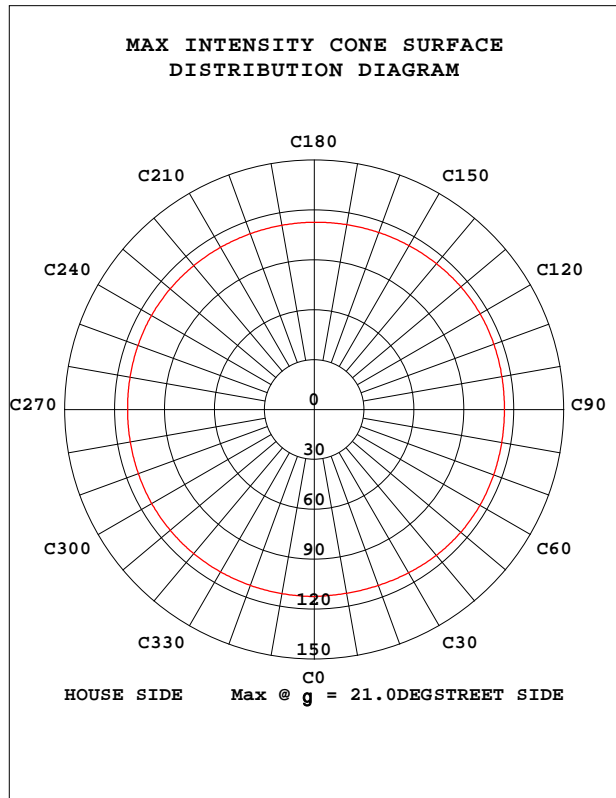
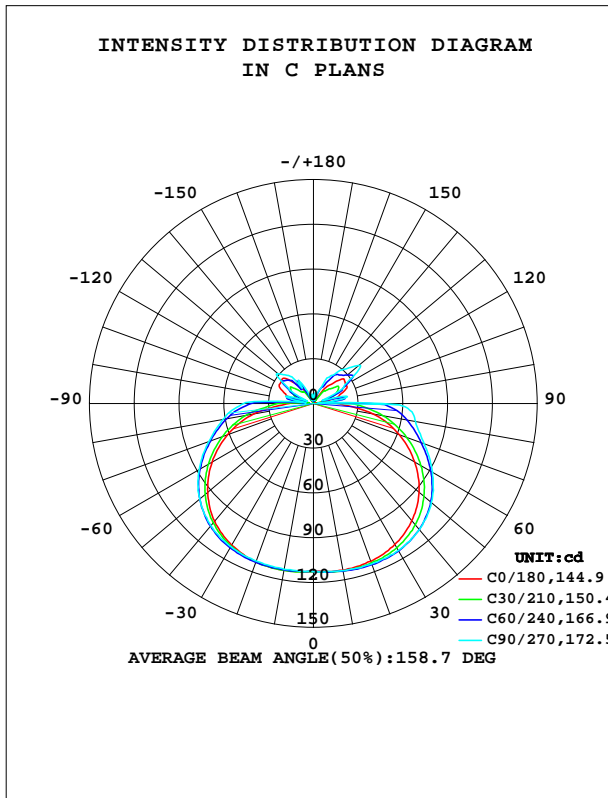


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.15V I:0.0791A P:9.2746W PF:0.9762 Freq:60.00Hz Lamp Flux:610.282x1 lm		
NAME: ASD-LWS12-8D10AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.80 lm/W			
MODEL	ASD-LWS12-8D10AC-WH(5000K)	I _{max} (cd)	115.2	h street_up(%)	8.2
NOMINAL POWER(W)	10	LOR(%)	100.0	h street_down(%)	42.9
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	610.3	h house_up(%)	7.2
NOMINAL FLUX(lm)	610.282	MAXIMUM @(C,g)	120,21.0	h house_down(%)	41.7
LAMPS INSIDE	1	h up(%)	15.4	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)		h down(%)	84.6	SLI	16.029

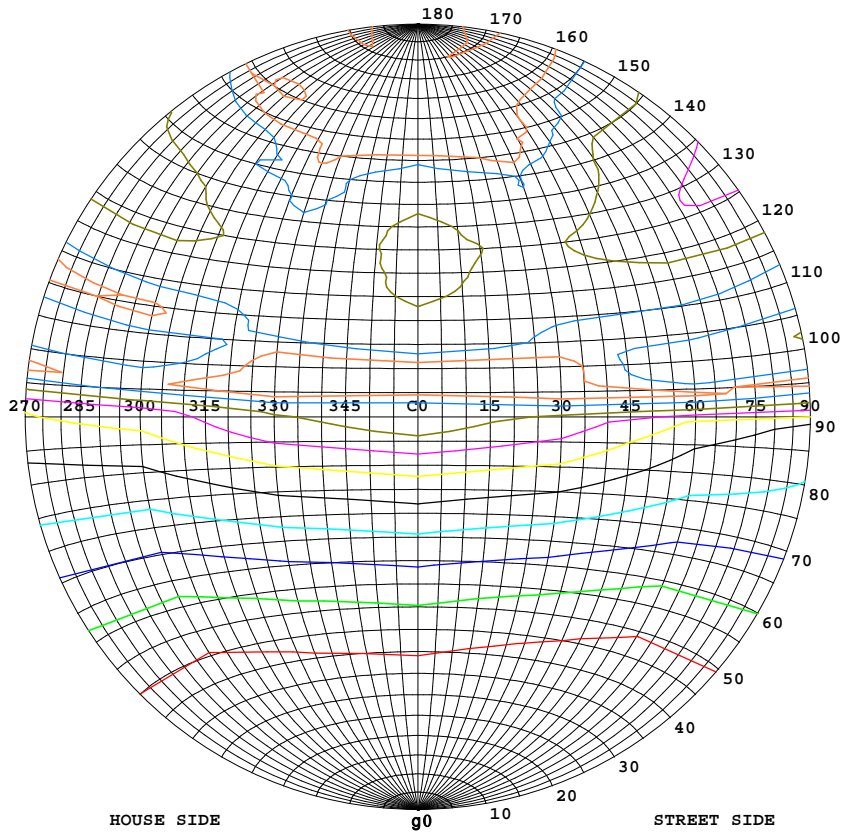


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-08-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.700m [K=1.1724]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.15V I:0.0791A P:9.2746W PF:0.9762 Freq:60.00Hz Lamp Flux:610.282x1 lm		
NAME: ASD-LWS12-8D10AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:



Classification:

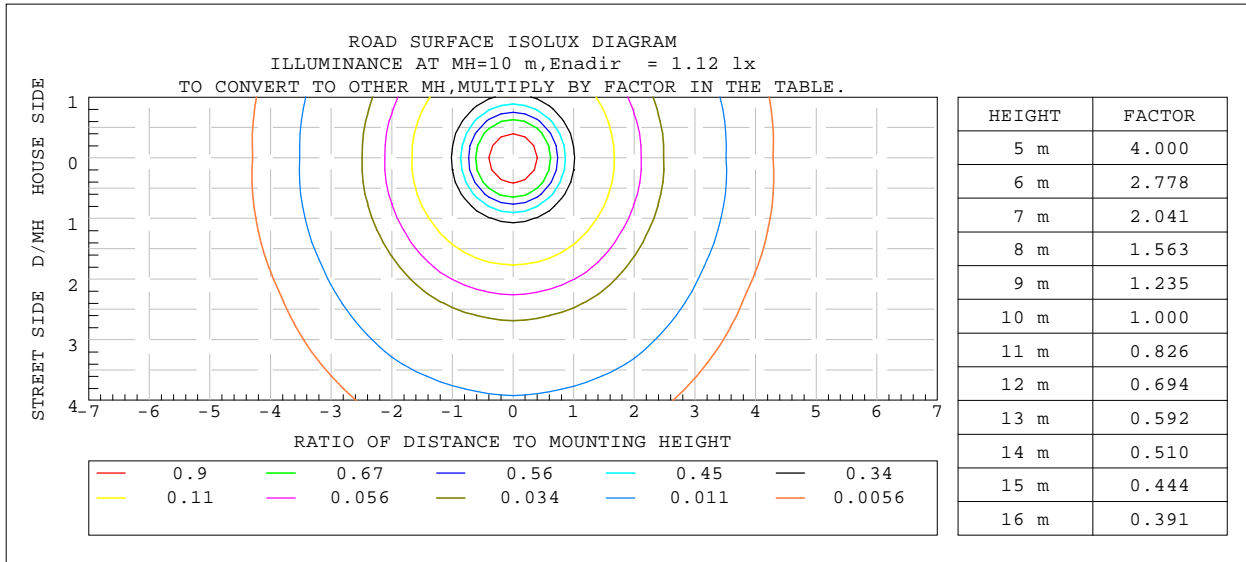
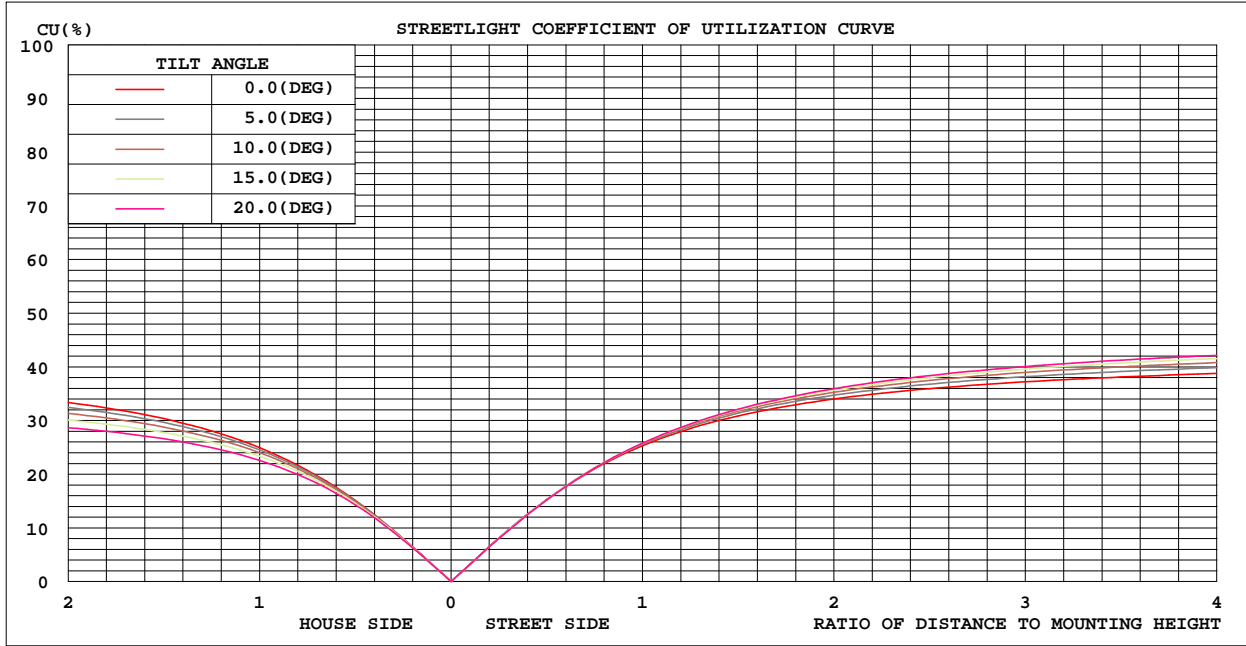
IES:Type IV - Very Short
 CIE:Average - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:113.7cd/klm
 Max.At90:76.65cd/klm
 Max.80-90:113.7cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	115
90%	104
80%	92
70%	81
60%	69
50%	58
40%	46
30%	35
20%	23
10%	12
5%	6

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-08-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.700m [K=1.1724]
 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: 2024-08-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity: 65.0%
Test Distance: 8.700m [K=1.1724]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.15V I:0.0791A P:9.2746W PF:0.9762 Freq:60.00Hz Lamp Flux:610.282x1 lm		
NAME: ASD-LWS12-8D10AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

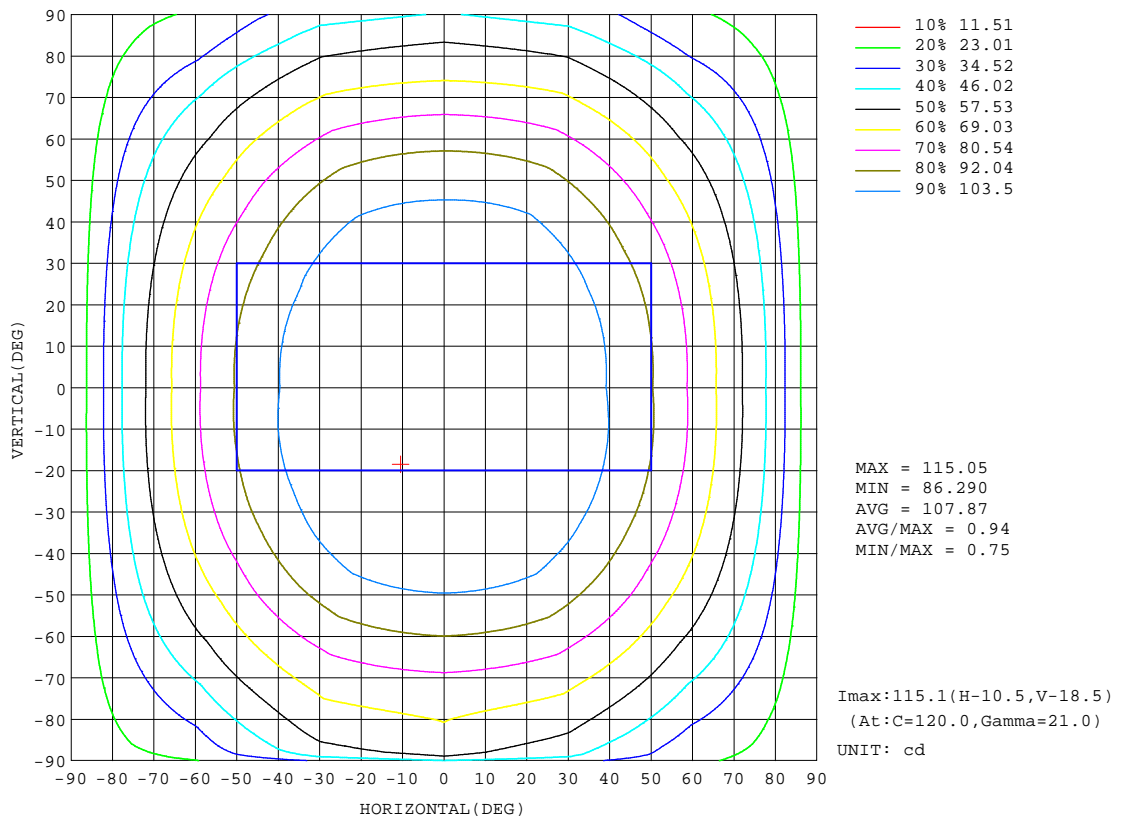
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	113.4	114.0	113.6	114.1	113.5	113.4	112.7	113.2	0- 10	10.81	10.81	1.77,1.77
20	112.5	114.3	114.4	114.5	113.0	113.2	112.2	112.9	10- 20	32.20	43.01	7.05,7.05
30	108.9	112.9	113.7	113.1	109.7	111.0	110.8	110.9	20- 30	52.15	95.16	15.6,15.6
40	102.5	108.3	110.4	108.3	103.0	105.9	106.9	106.1	30- 40	68.66	163.8	26.8,26.8
50	92.35	99.66	103.2	99.65	92.51	97.10	99.53	97.39	40- 50	79.40	243.2	39.9,39.9
60	78.30	86.99	92.05	86.99	78.32	84.55	88.41	85.05	50- 60	82.38	325.6	53.4,53.4
70	61.17	71.61	79.05	71.95	61.21	69.12	74.65	69.69	60- 70	77.18	402.8	66,66
80	40.83	55.41	69.42	56.47	40.63	52.58	61.42	52.89	70- 80	65.64	468.4	76.8,76.8
90	16.29	31.59	46.09	29.30	16.57	32.99	46.78	32.90	80- 90	48.05	516.5	84.6,84.6
100	3.585	12.13	21.54	13.39	4.343	9.463	9.940	9.088	90-100	14.23	530.7	87,87
110	20.13	12.03	6.388	12.44	20.61	9.415	6.272	9.597	100-110	12.68	543.4	89,89
120	25.38	22.64	23.78	22.94	26.16	18.46	18.32	17.76	110-120	16.96	560.3	91.8,91.8
130	25.87	22.89	39.89	23.59	26.57	19.62	31.24	18.56	120-130	21.96	582.3	95.4,95.4
140	15.92	18.46	29.42	18.44	16.19	11.34	23.76	10.98	130-140	16.11	598.4	98.1,98.1
150	1.285	7.438	20.29	7.471	1.100	3.990	14.44	3.634	140-150	8.072	606.5	99.4,99.4
160	2.839	1.784	4.756	1.782	2.850	2.050	3.782	2.227	150-160	2.325	608.8	99.8,99.8
170	5.091	5.949	6.845	6.157	6.153	5.326	5.864	5.364	160-170	0.9999	609.8	99.9,99.9
180	1.257	1.994	2.578	2.162	1.272	2.013	2.593	2.162	170-180	0.4614	610.3	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:2024-08-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.700m [K=1.1724]
 Remarks:

ISOCANDELA DIAGRAM

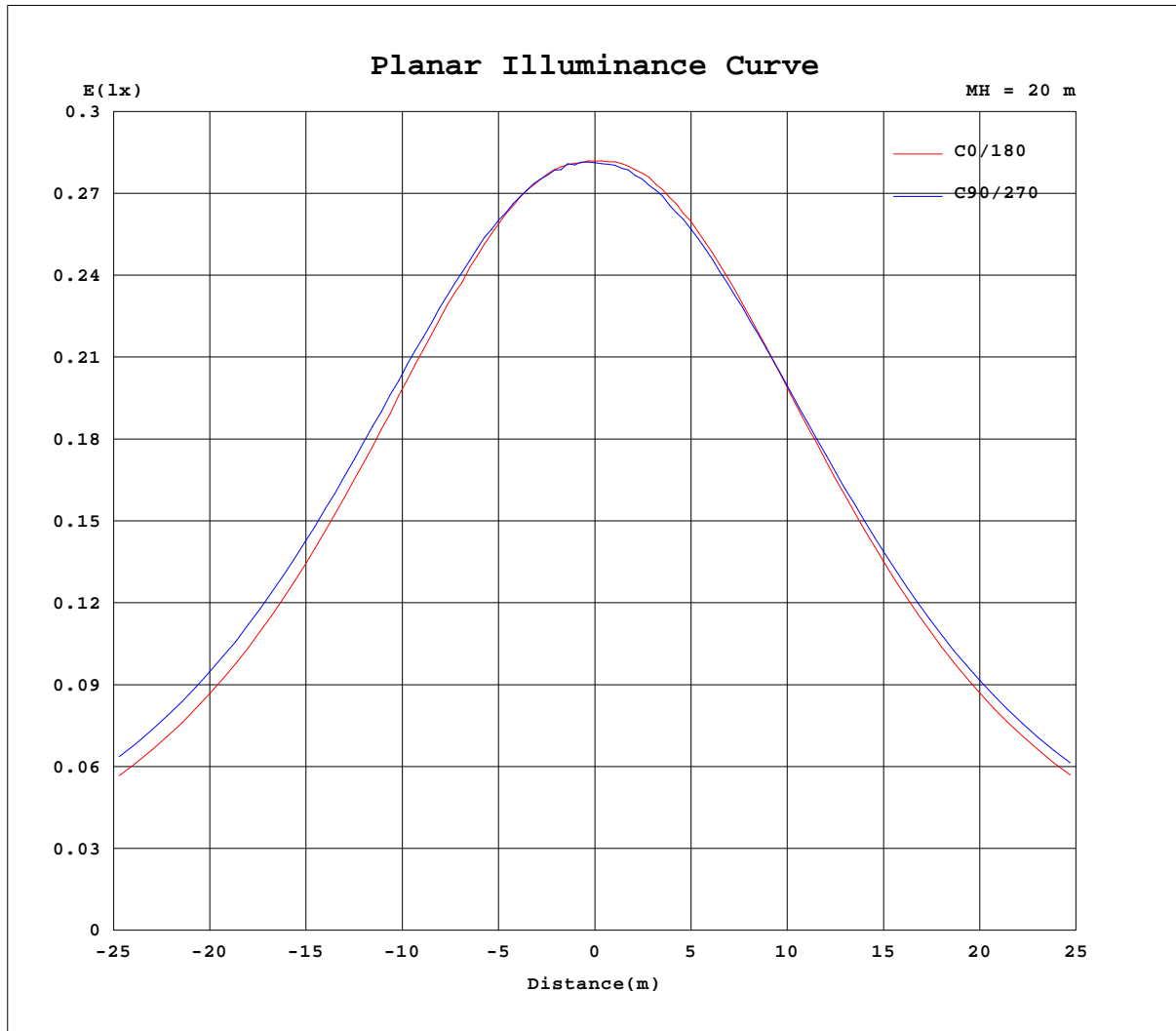
Test:U:120.15V I:0.0791A P:9.2746W PF:0.9762 Freq:60.00Hz Lamp Flux:610.282x1 lm		
NAME: ASD-LWS12-8D10AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-08-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.700m [K=1.1724]
 Remarks:

Planar Illuminance Curve



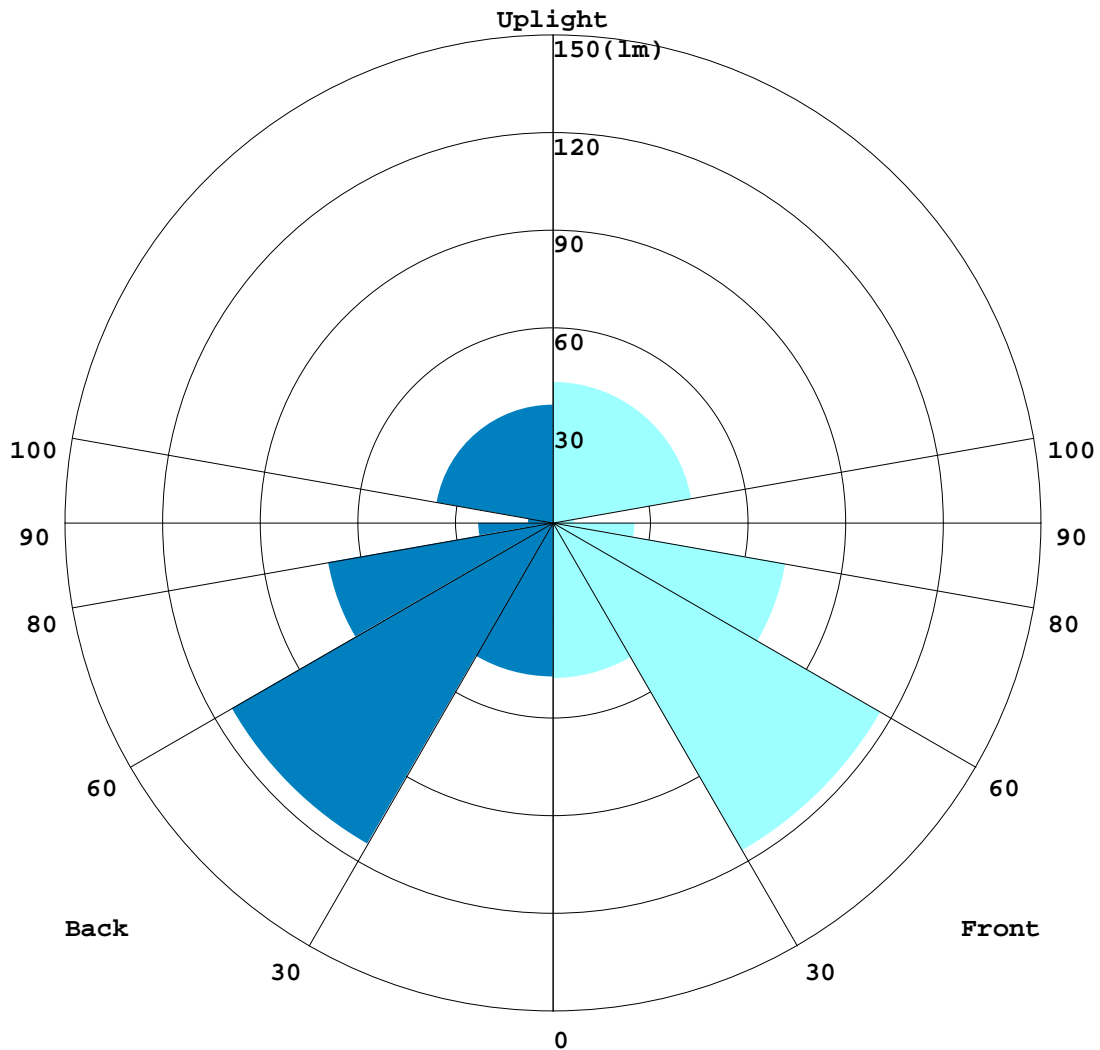
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-08-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.1724]
 Remarks:

LCS REPORT

Test:U:120.15V I:0.0791A P:9.2746W PF:0.9762 Freq:60.00Hz Lamp Flux:610.282x1 lm		
NAME: ASD-LWS12-8D10AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-08-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.700m [K=1.1724]
 Remarks:

BUG REPORT

Test:U:120.15V I:0.0791A P:9.2746W PF:0.9762 Freq:60.00Hz Lamp Flux:610.282x1 lm		
NAME: ASD-LWS12-8D10AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	47.83	7.8
FM - Front-Medium(30-60)	116.4	19.1
FH - Front-High(60-80)	72.702	11.9
FVH - Front-Very High(80-90)	25.155	4.1
Total Forward Light	311.95	51.1

BL - Back-Low(0-30)	47.331	7.8
BM - Back-Medium(30-60)	114.05	18.7
BH - Back-High(60-80)	70.122	11.5
BVH - Back-Very High(80-90)	22.894	3.8
Total Back Light	298.33	48.9

UL - Uplight-Low(90-100)	14.226	2.3
UH - Uplight-High(100-180)	79.575	13.0
Total Up Light	93.801	15.4

BUG(Back,Up,Glare) Rating	B0-U3-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	254.39	43.94	298.33
Street Side	262.09	49.861	311.95

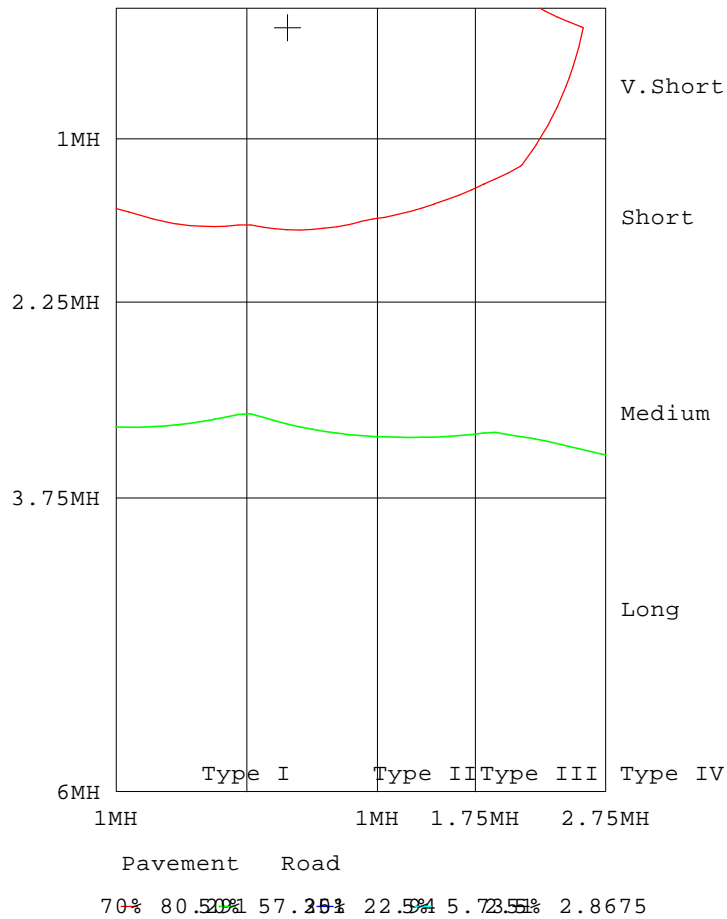
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-08-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.700m [K=1.1724]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.15V I:0.0791A P:9.2746W PF:0.9762 Freq:60.00Hz Lamp Flux:610.282x1 lm		
NAME: ASD-LWS12-8D10AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-08-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.700m [K=1.1724]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.15V I:0.0791A P:9.2746W PF:0.9762 Freq:60.00Hz Lamp Flux:610.282x1 lm		
NAME: ASD-LWS12-8D10AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	113	113	113	113	113	113	113	113	113	113	113	113						
5	113	113	113	113	114	114	113	113	113	113	113	113						
10	113	114	114	114	114	114	113	114	113	113	113	113						
15	113	114	115	114	115	114	113	114	113	113	113	113						
20	112	114	115	114	115	114	113	113	113	112	113	113						
25	111	113	115	114	115	113	112	112	113	112	113	112						
30	109	112	114	114	114	112	110	110	112	111	112	110						
35	106	109	113	113	113	109	107	108	110	109	110	108						
40	103	106	110	110	110	106	103	105	107	107	108	105						
45	98.1	102	107	107	107	102	98.4	100	104	104	104	100						
50	92.3	96.7	103	103	103	96.6	92.5	94.7	99.5	99.5	99.7	95.1						
55	85.7	90.4	97.1	98.1	97.3	90.3	85.9	88.4	94.1	94.4	94.6	88.7						
60	78.3	83.1	90.9	92.0	90.9	83.1	78.3	81.3	87.8	88.4	88.3	81.8						
65	70.2	75.1	84.0	85.6	84.1	75.2	70.1	73.4	80.9	81.8	81.3	73.9						
70	61.2	66.5	76.7	79.0	77.3	66.5	61.2	64.9	73.4	74.7	74.1	65.3						
75	51.7	57.4	70.1	73.3	71.2	57.6	51.6	56.0	66.3	67.8	66.8	56.3						
80	40.8	47.3	63.6	69.4	65.6	47.3	40.6	46.0	59.1	61.4	59.3	46.5						
85	26.1	36.1	56.3	66.3	59.5	36.5	26.3	32.8	51.2	55.2	51.3	33.9						
90	16.3	24.8	38.3	46.1	35.9	22.7	16.6	24.2	41.8	46.8	41.6	24.2						
95	4.16	2.89	7.11	2.92	10.2	6.49	9.23	6.74	7.64	15.6	8.90	3.51						
100	3.59	2.71	21.6	21.5	23.3	3.46	4.34	2.97	16.0	9.94	15.1	3.03						
105	16.5	10.1	8.75	15.1	8.75	10.8	17.0	10.2	13.1	19.4	13.9	9.89						
110	20.1	13.0	11.1	6.39	12.0	12.9	20.6	13.0	5.85	6.27	5.21	14.0						
115	24.6	17.0	21.2	17.3	21.6	18.2	24.7	15.3	14.7	8.14	14.2	14.5						
120	25.4	19.4	25.9	23.8	25.8	20.1	26.2	17.4	19.5	18.3	19.4	16.1						
125	25.8	20.5	32.7	33.9	33.6	20.9	26.4	19.0	26.0	25.9	27.0	16.8						
130	25.9	15.9	29.9	39.9	30.6	16.6	26.6	15.1	24.1	31.2	24.4	12.7						
135	20.4	12.8	27.1	34.1	27.5	13.8	21.6	11.1	21.9	27.4	22.2	9.58						
140	15.9	11.3	25.6	29.4	25.5	11.4	16.2	10.7	12.0	23.8	12.8	9.20						
145	9.37	3.74	21.2	23.5	22.0	4.06	11.5	3.68	17.4	14.0	16.0	4.92						
150	1.28	1.85	13.0	20.3	13.0	1.96	1.10	2.67	5.31	14.4	5.39	1.88						
155	0.73	2.13	10.5	11.3	9.56	2.64	0.88	2.51	6.63	2.83	6.92	2.73						
160	2.84	2.00	1.57	4.76	1.61	1.95	2.85	1.36	2.74	3.78	3.14	1.31						
165	4.46	3.62	2.70	5.37	2.57	3.47	5.36	3.20	2.20	4.81	2.70	3.13						
170	5.09	5.80	6.10	6.85	6.14	6.17	6.15	5.67	4.98	5.86	5.49	5.24						
175	2.46	3.74	4.46	4.77	5.13	4.32	3.55	4.01	4.60	4.47	4.31	4.03						
180	1.26	1.44	2.55	2.58	2.59	1.73	1.27	1.47	2.56	2.59	2.59	1.73						

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-08-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.700m [K=1.1724]
 Remarks: