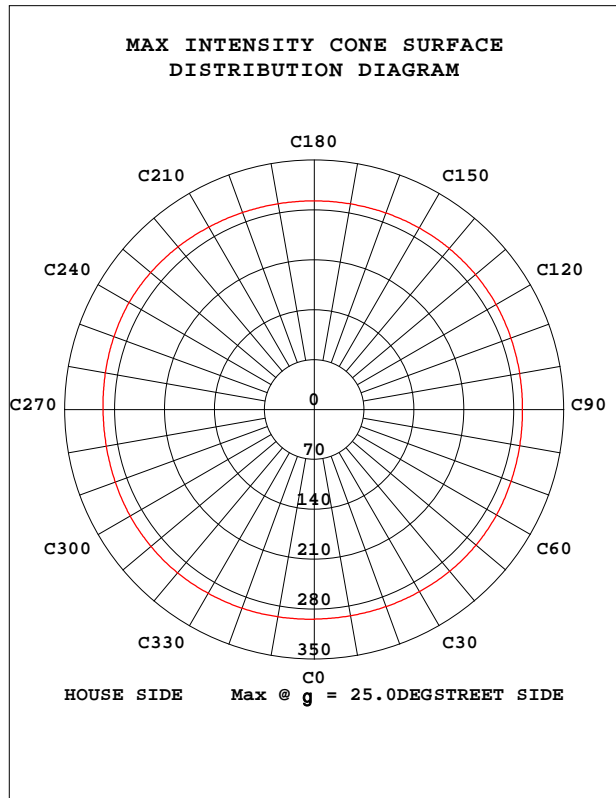
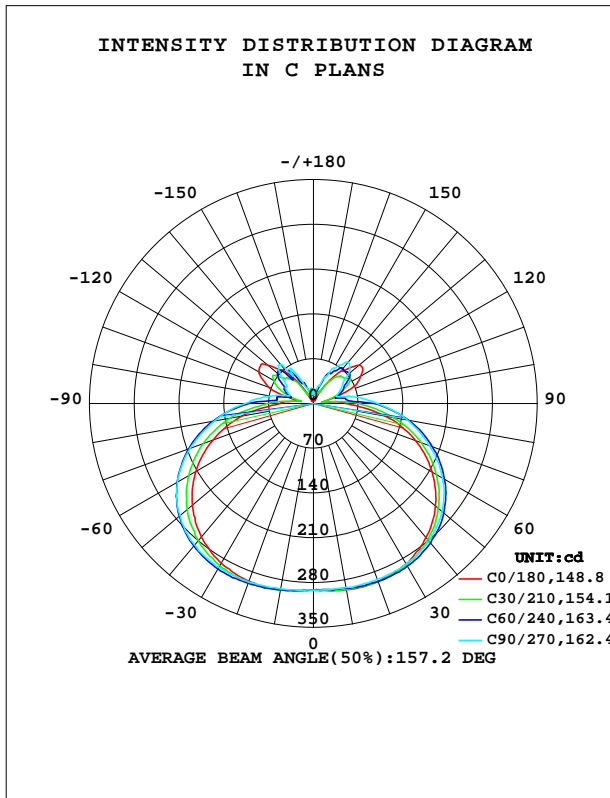


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.03V I:0.2044A P:24.230W PF:0.9875 Freq:60.00Hz Lamp Flux:1691.08x1 lm		
NAME: ASD-LWS12-14D24AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.79 lm/W			
MODEL	ASD-LWS12-14D24AC-WH(5000K)	I _{max} (cd)	300.2	h street_up(%)	9.7
NOMINAL POWER(W)	10	LOR(%)	100.0	h street_down(%)	39.8
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1691	h house_up(%)	9.6
NOMINAL FLUX(lm)	1691.08	MAXIMUM @(C,g)	240,25.0	h house_down(%)	40.9
LAMPS INSIDE	1	h up(%)	19.3	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)		h down(%)	80.7	SLI	17.443

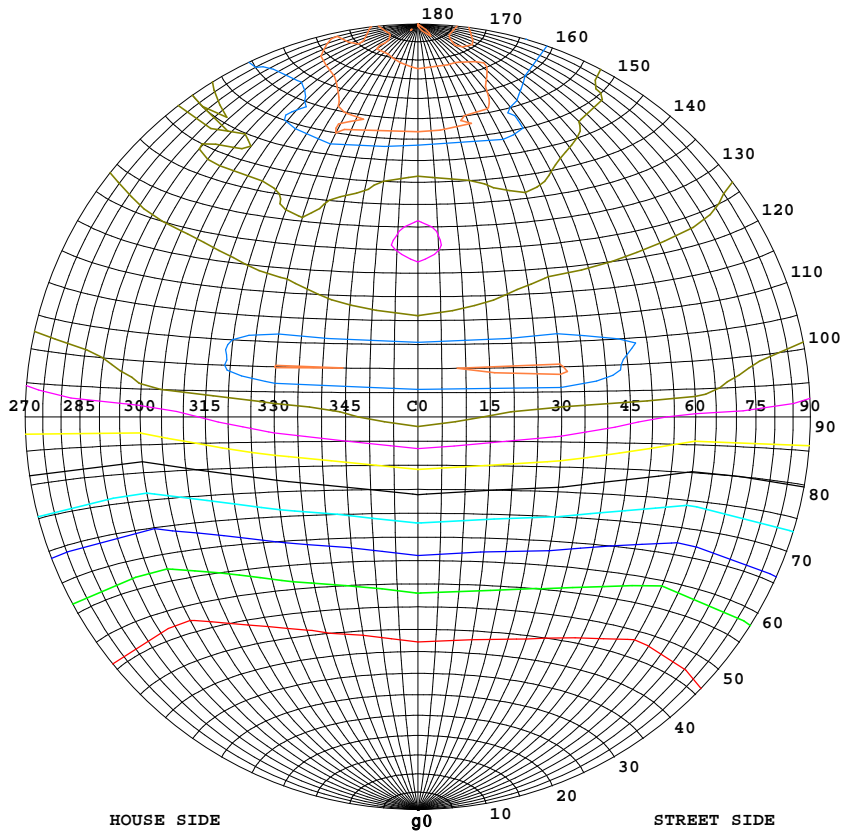


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-08-22

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=1.0575]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.03V I:0.2044A P:24.230W PF:0.9875 Freq:60.00Hz Lamp Flux:1691.08x1 lm		
NAME: ASD-LWS12-14D24AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:



Classification:

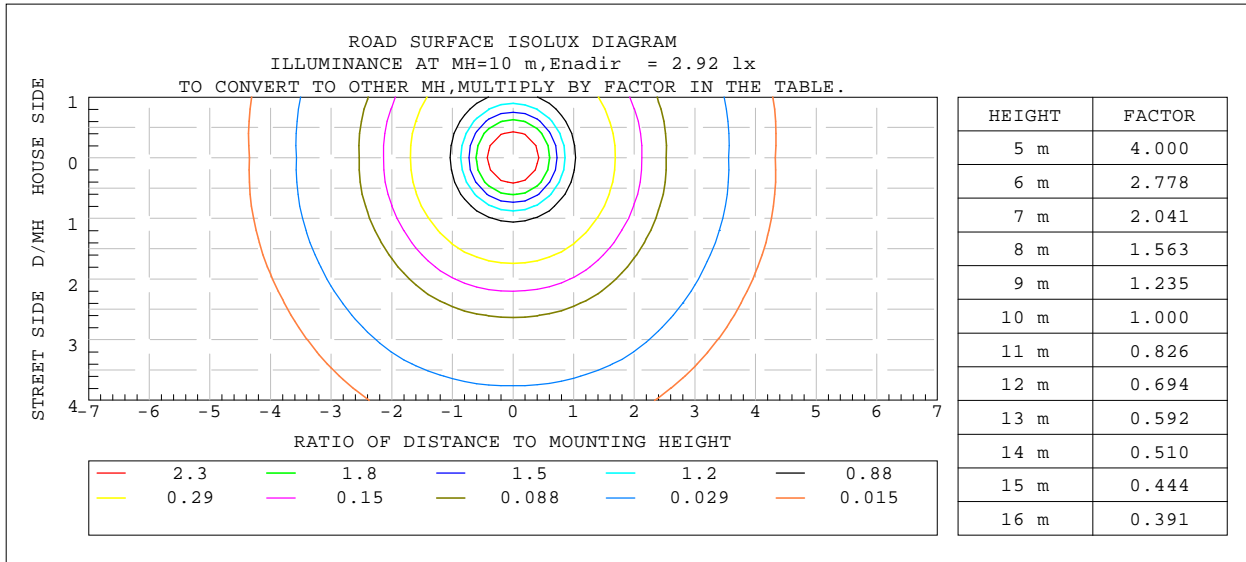
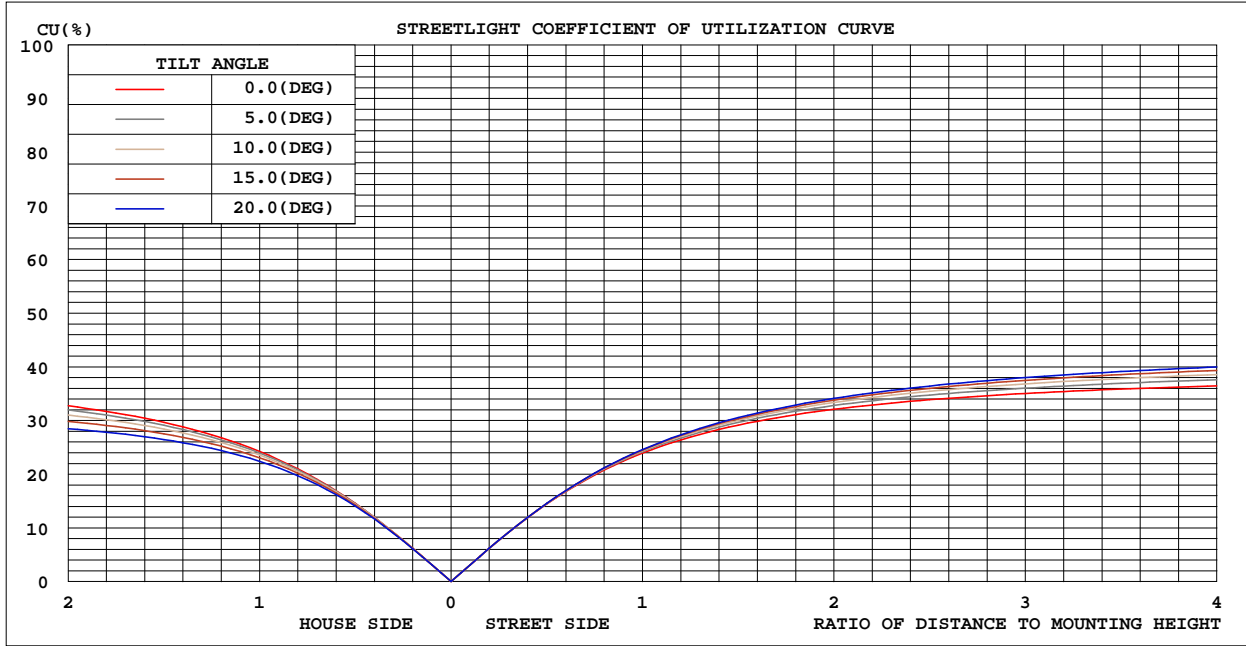
IES:Type VS - Very Short
 CIE:Average - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:94.87cd/klm
 Max.At90:63.25cd/klm
 Max.80-90:94.87cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	300
90%	270
80%	240
70%	210
60%	180
50%	150
40%	120
30%	90
20%	60
10%	30
5%	15

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=1.0575]
 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=1.0575]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.03V I:0.2044A P:24.230W PF:0.9875 Freq:60.00Hz Lamp Flux:1691.08x1 lm		
NAME: ASD-LWS12-14D24AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

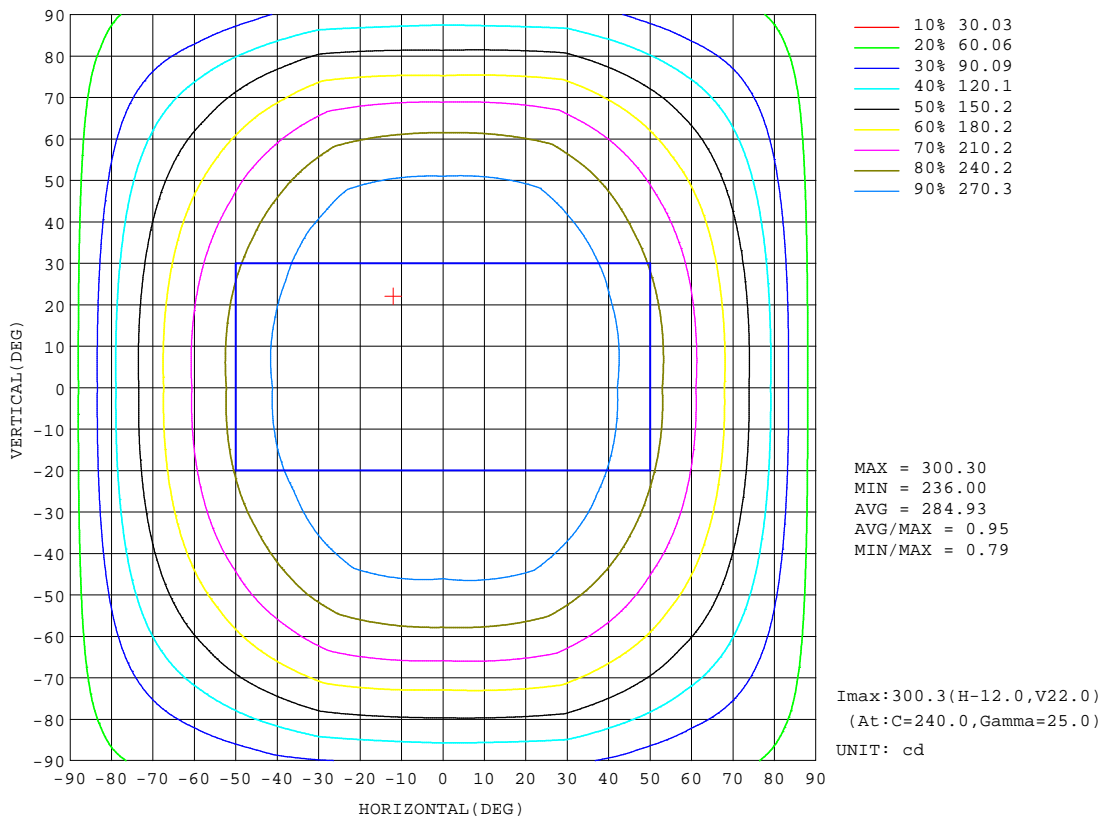
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	295.2	294.4	292.0	294.4	296.0	296.0	294.1	295.4	0- 10	28.03	28.03	1.66,1.66
20	296.1	295.7	292.5	295.4	295.4	298.1	297.0	298.1	10- 20	83.92	112.0	6.62,6.62
30	289.8	292.3	289.8	291.7	288.2	295.8	295.9	296.6	20- 30	136.6	248.6	14.7,14.7
40	273.8	281.4	280.9	279.8	272.3	285.4	288.8	287.2	30- 40	180.9	429.5	25.4,25.4
50	249.0	260.2	262.6	259.0	247.1	265.8	272.8	267.9	40- 50	210.9	640.4	37.9,37.9
60	214.3	229.3	233.2	228.1	212.3	235.6	245.5	238.7	50- 60	221.2	861.7	51,51
70	170.1	188.8	193.1	187.5	167.0	195.5	205.4	198.4	60- 70	209.1	1071	63.3,63.3
80	113.9	138.9	148.9	137.6	113.8	145.6	156.8	147.9	70- 80	174.7	1246	73.7,73.7
90	50.79	83.31	99.94	79.47	51.86	86.43	107.0	88.54	80- 90	120.0	1366	80.7,80.7
100	15.30	31.72	63.47	34.82	26.36	39.40	68.76	35.18	90-100	61.29	1427	84.4,84.4
110	54.94	42.42	39.56	43.29	74.27	45.94	39.22	42.68	100-110	40.59	1467	86.8,86.8
120	85.20	60.33	51.20	65.80	98.23	62.07	51.08	58.52	110-120	56.11	1524	90.1,90.1
130	93.58	67.95	71.88	72.54	93.79	68.09	64.98	66.16	120-130	63.48	1587	93.8,93.8
140	66.33	62.75	84.37	64.86	59.46	48.15	79.76	48.61	130-140	53.46	1640	97,97
150	24.30	36.75	64.18	39.46	3.730	28.12	53.02	25.68	140-150	31.64	1672	98.9,98.9
160	6.977	20.87	32.93	20.86	7.413	15.22	21.17	16.30	150-160	12.42	1685	99.6,99.6
170	17.87	16.44	20.48	23.17	19.69	21.62	16.74	14.52	160-170	4.820	1689	99.9,99.9
180	14.21	17.85	23.44	18.43	14.25	17.88	23.37	18.45	170-180	1.736	1691	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=1.0575]
 Remarks:

ISOCANDELA DIAGRAM

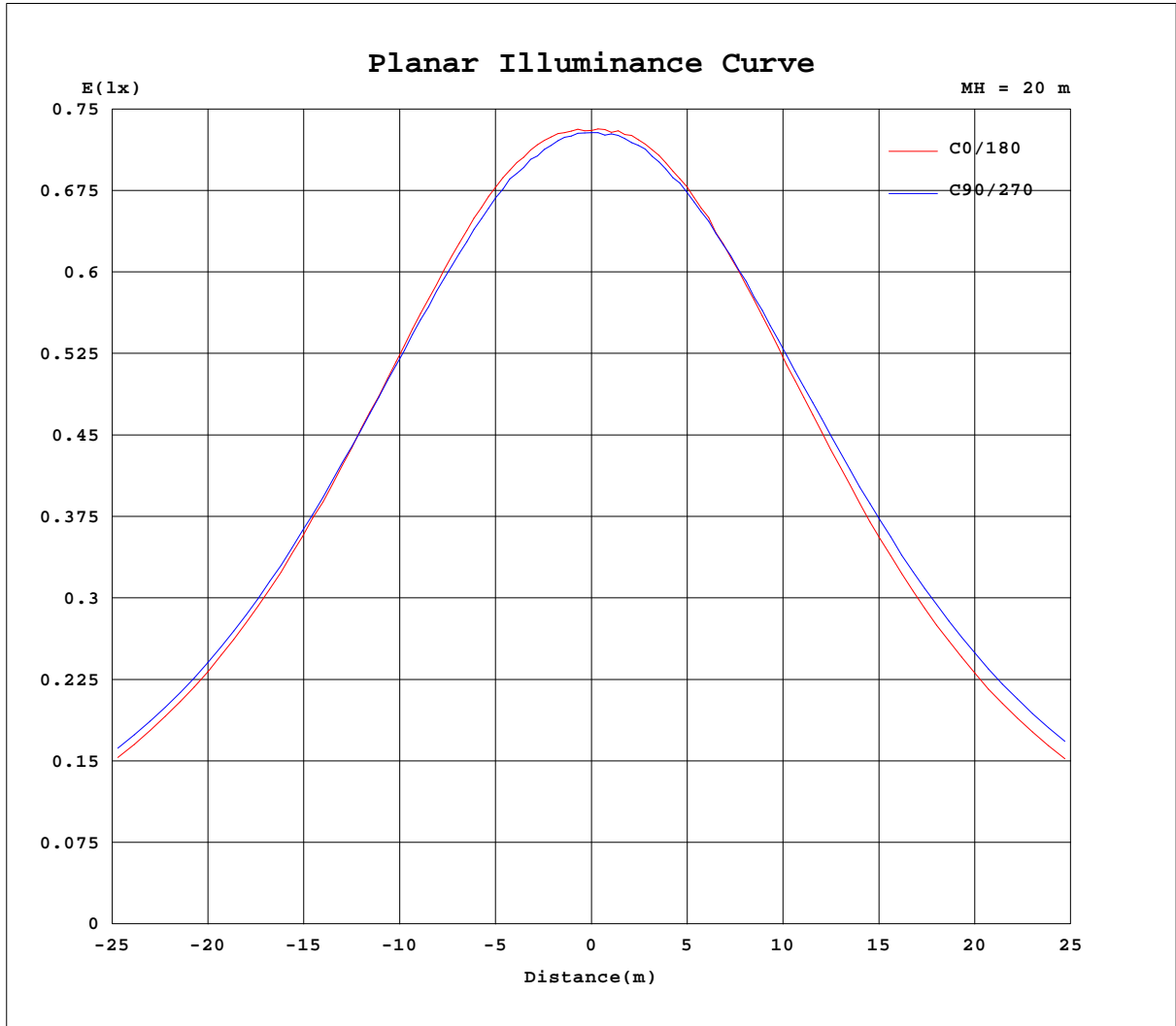
Test:U:120.03V I:0.2044A P:24.230W PF:0.9875 Freq:60.00Hz Lamp Flux:1691.08x1 lm		
NAME: ASD-LWS12-14D24AC-WH(5000K)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:



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=1.0575]
 Remarks:

Planar Illuminance Curve



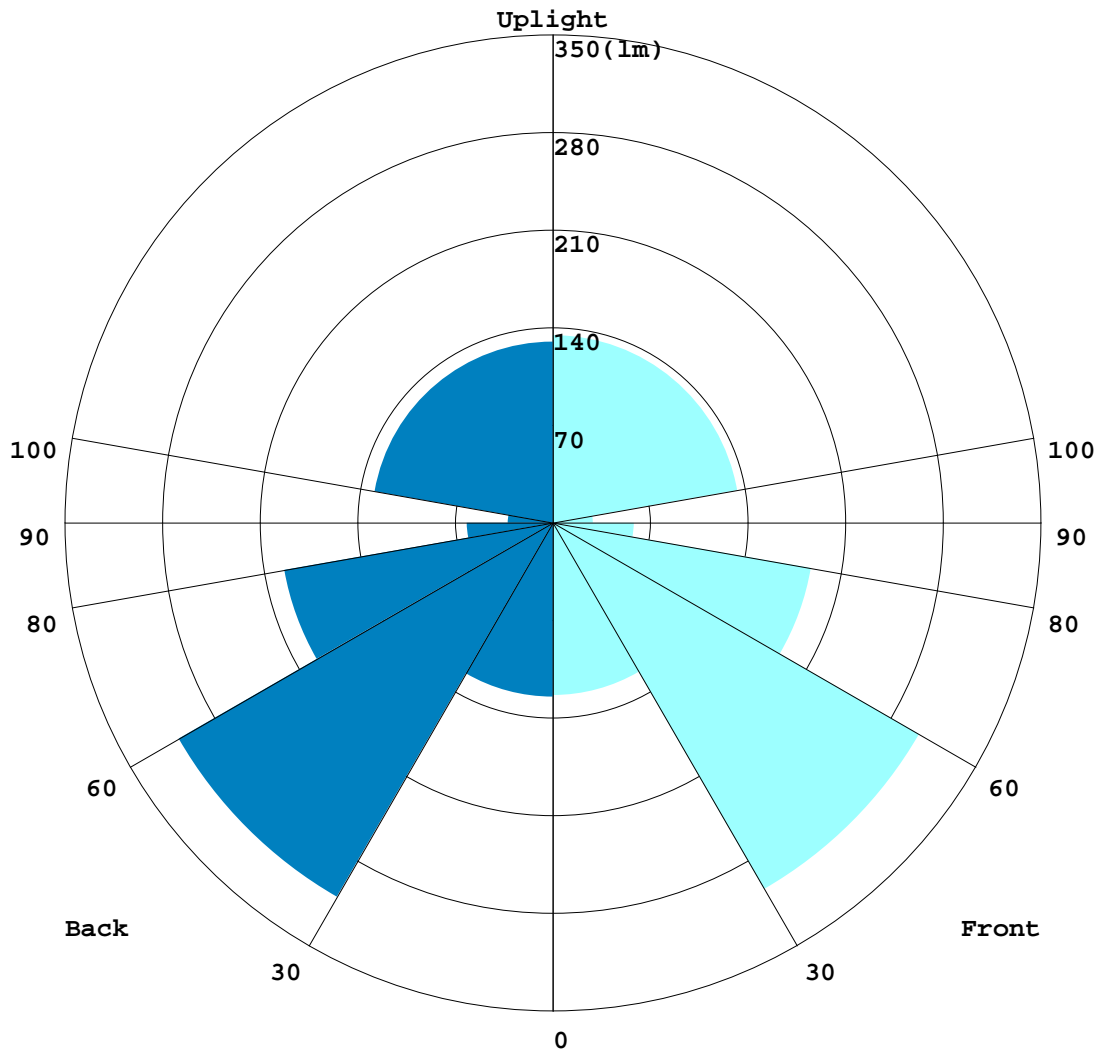
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-08-22

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=1.0575]
 Remarks:

LCS REPORT

Test:U:120.03V I:0.2044A P:24.230W PF:0.9875 Freq:60.00Hz Lamp Flux:1691.08x1 lm		
NAME: ASD-LWS12-14D24AC-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=1.0575]
 Remarks:

BUG REPORT

Test:U:120.03V I:0.2044A P:24.230W PF:0.9875 Freq:60.00Hz Lamp Flux:1691.08x1 lm		
NAME: ASD-LWS12-14D24AC-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)	123.81	7.3
FM - Front-Medium(30-60)	303.35	17.9
FH - Front-High(60-80)	188.24	11.1
FVH - Front-Very High(80-90)	58.375	3.5
Total Forward Light	837.05	49.5

BL - Back-Low(0-30)	124.75	7.4
BM - Back-Medium(30-60)	309.76	18.3
BH - Back-High(60-80)	195.61	11.6
BVH - Back-Very High(80-90)	61.641	3.6
Total Back Light	854.03	50.5

UL - Uplight-Low(90-100)	61.285	3.6
UH - Uplight-High(100-180)	264.27	15.6
Total Up Light	325.55	19.3

BUG(Back,Up,Glare) Rating	B1-U3-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	691.76	162.27	854.03
Street Side	673.77	163.28	837.05

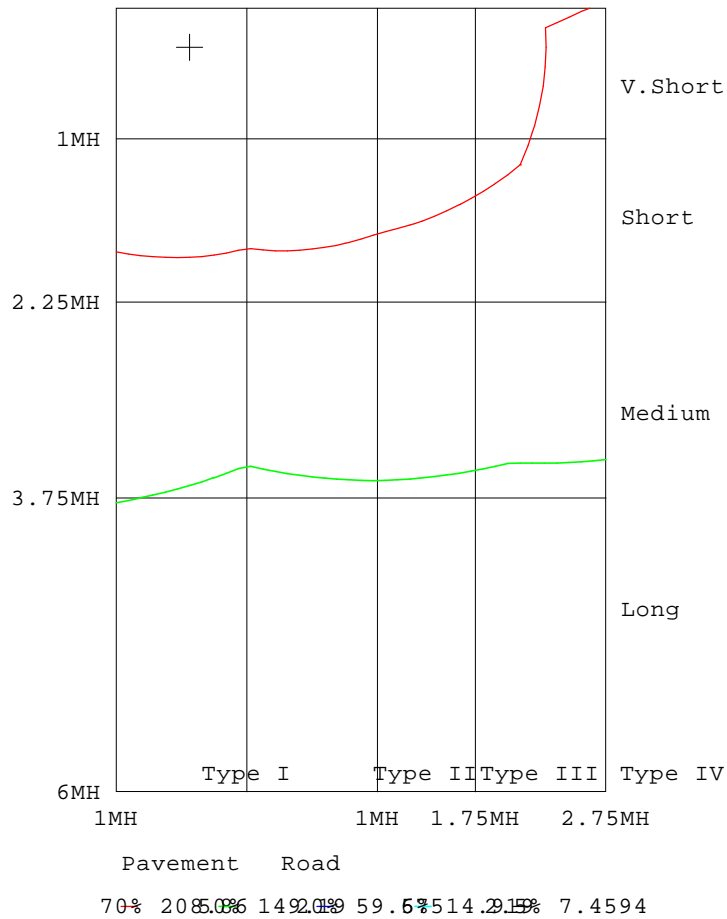
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-08-22

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=1.0575]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.03V I:0.2044A P:24.230W PF:0.9875 Freq:60.00Hz Lamp Flux:1691.08x1 lm		
NAME: ASD-LWS12-14D24AC-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=1.0575]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.03V I:0.2044A P:24.230W PF:0.9875 Freq:60.00Hz Lamp Flux:1691.08x1 lm		
NAME: ASD-LWS12-14D24AC-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	292	292	292	292	292	292	292	292	292	292	292	292						
5	294	293	292	292	292	294	294	294	293	293	292	294						
10	295	295	293	292	293	295	296	296	296	294	294	297						
15	297	296	296	293	295	297	296	297	298	295	297	298						
20	296	295	296	293	295	296	295	298	299	297	298	298						
25	294	295	295	292	295	294	293	296	300	296	298	298						
30	290	291	294	290	292	291	288	293	299	296	298	295						
35	282	286	290	286	288	285	281	288	295	293	296	290						
40	274	278	285	281	283	277	272	280	291	289	292	283						
45	262	269	276	273	275	267	261	270	284	283	284	273						
50	249	254	266	263	264	254	247	258	274	273	275	261						
55	233	240	253	249	251	238	231	243	261	261	262	246						
60	214	222	236	233	235	221	212	225	246	246	248	229						
65	193	202	218	214	216	201	191	206	228	227	230	209						
70	170	180	198	193	196	179	167	183	208	205	209	188						
75	144	155	176	171	174	154	142	159	185	182	186	162						
80	114	127	151	149	148	127	114	132	159	157	160	135						
85	78.7	97.0	124	125	120	97.1	78.6	99.6	131	133	133	102						
90	50.8	71.1	95.5	99.9	88.6	70.3	51.9	71.8	101	107	104	73.5						
95	34.5	36.5	54.6	80.9	56.7	37.7	38.7	44.3	59.0	88.1	63.0	43.4						
100	15.3	14.2	49.3	63.5	51.5	18.0	26.4	20.4	58.4	68.8	55.5	14.8						
105	27.9	25.2	35.8	42.2	35.8	32.4	47.0	33.2	38.4	49.8	39.6	25.2						
110	54.9	40.3	44.5	39.6	42.8	43.8	74.3	48.7	43.2	39.2	43.0	42.3						
115	76.0	51.4	51.5	45.2	49.6	63.1	87.0	61.9	50.1	45.4	50.7	54.6						
120	85.2	64.1	56.5	51.2	55.3	76.3	98.2	71.5	52.6	51.1	53.0	64.1						
125	94.2	69.5	67.6	57.2	68.8	80.5	102	77.1	65.3	52.6	61.9	70.7						
130	93.6	62.4	73.5	71.9	77.5	67.5	93.8	62.5	73.6	65.0	70.6	61.7						
135	77.8	61.3	70.8	80.1	78.0	64.2	74.7	55.9	73.0	76.6	71.1	55.9						
140	66.3	53.7	71.8	84.4	75.1	54.6	59.5	47.1	49.2	79.8	49.7	47.5						
145	44.7	41.6	63.9	73.5	67.4	29.9	37.6	23.1	60.3	60.3	59.5	37.9						
150	24.3	19.7	53.8	64.2	52.9	25.9	3.73	19.6	36.6	53.0	36.3	15.1						
155	6.33	19.7	51.1	46.8	48.0	17.7	3.94	12.0	36.1	28.4	37.7	14.0						
160	6.98	11.6	30.1	32.9	28.6	13.1	7.41	10.1	20.3	21.2	23.1	9.52						
165	11.6	10.6	18.2	28.0	21.6	19.1	15.9	16.9	14.6	18.2	12.2	10.2						
170	17.9	17.0	15.8	20.5	20.8	25.6	19.7	23.8	19.4	16.7	14.7	14.3						
175	19.9	16.2	15.6	16.6	20.6	21.0	15.0	20.8	19.9	16.1	14.6	17.0						
180	14.2	15.1	20.6	23.4	20.7	16.2	14.3	15.1	20.6	23.4	20.7	16.2						

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=1.0575]
 Remarks: