

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P893408

Luminaire Tested: 4MB-3SL-FLTU-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-3SL-FLTU-UNV-L950
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 500
Light Source: -
Ballast/Driver: -

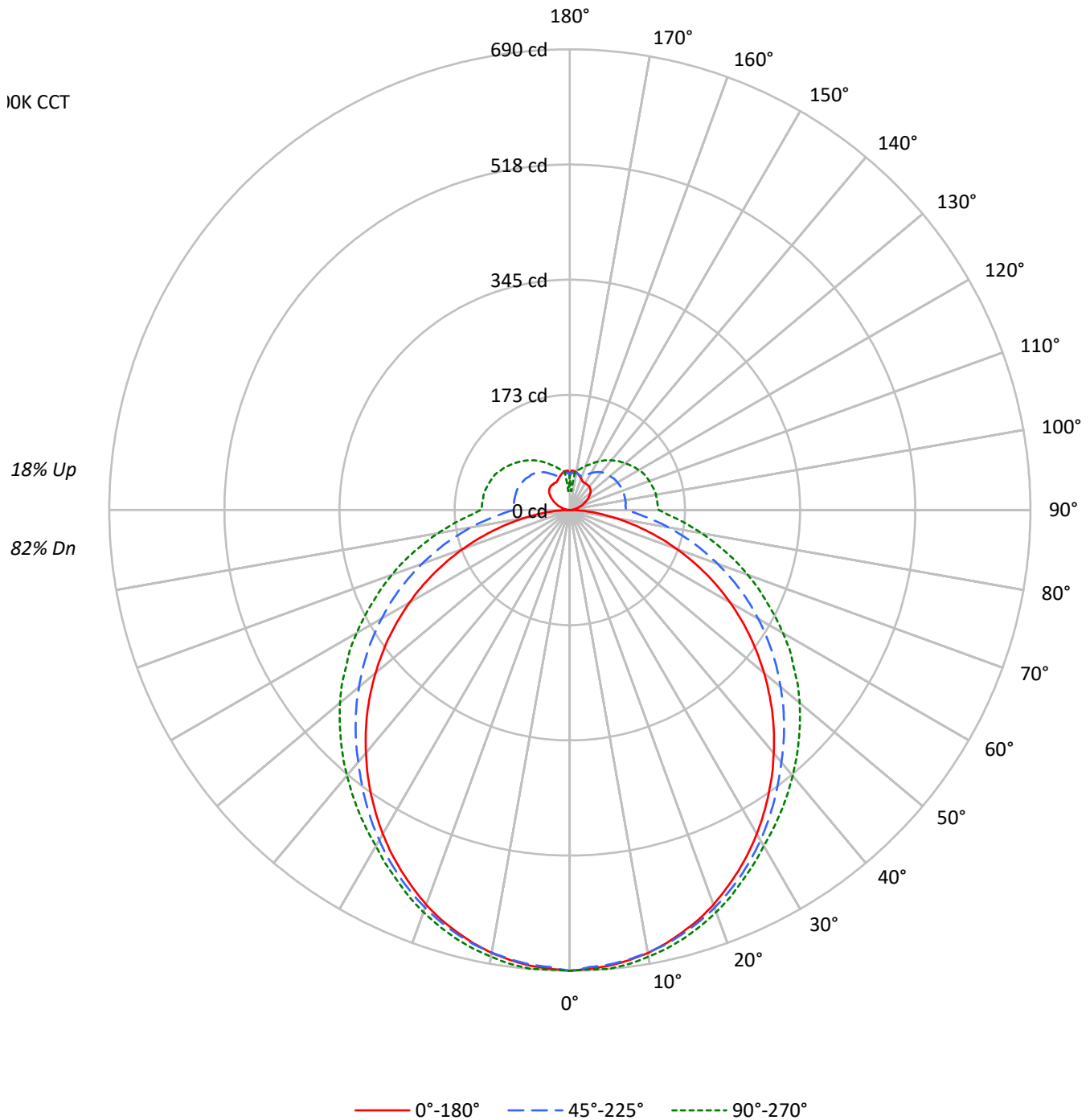
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2609.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893408
CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L950

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4910	4910	4910
5°	4871	4705	4699
10°	4823	4524	4476
15°	4752	4343	4263
20°	4673	4158	4046
25°	4574	3965	3827
30°	4468	3768	3627
35°	4351	3570	3462
40°	4228	3376	3304
45°	4104	3206	3155
50°	3959	3030	3009
55°	3804	2857	2846
60°	3618	2672	2692
65°	3397	2477	2517
70°	3106	2263	2355
75°	2711	2045	2179
80°	2189	1811	1999
85°	1512	1574	1834

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4104 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	2.5
10°-20°	186.1	7.1
20°-30°	279.7	10.7
30°-40°	335.8	12.9
40°-50°	353.1	13.5
50°-60°	331.8	12.7
60°-70°	275.9	10.6
70°-80°	196.9	7.5
80°-90°	117.2	4.5
90°-100°	84.8	3.3
100°-110°	83.7	3.2
110°-120°	78.6	3.0
120°-130°	69.7	2.7
130°-140°	57.7	2.2
140°-150°	43.2	1.7
150°-160°	28.4	1.1
160°-170°	16.1	0.6
170°-180°	5.1	0.2
0°-30°	531.1	20.4
0°-40°	866.9	33.2
0°-60°	1551.7	59.5
0°-90°	2141.6	82.1
90°-120°	247.1	9.5
90°-150°	417.7	16.0
90°-180°	467.0	17.9
0°-180°	2609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	685	693	683	685	690	65
15°	654	664	657	661	664	185
25°	597	608	605	611	612	275
35°	519	531	533	546	552	325
45°	429	441	454	477	485	331
55°	330	343	370	400	409	294
65°	224	243	281	316	325	222
75°	118	144	192	229	241	125
85°	30	65	113	151	163	32
90°	0	37	84	120	133	2
95°	3	39	84	119	132	4
105°	12	44	84	118	129	13
115°	23	47	84	113	124	23
125°	35	50	81	106	114	32
135°	44	53	77	96	103	33
145°	46	52	69	86	91	29
155°	47	52	59	72	77	22
165°	54	57	55	56	64	15
175°	59	59	56	47	28	6
180°	52	52	52	52	52	



TEST NUMBER: P893408
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1
2.5°	687.6	689.5	690.1	696.4	693.9	696.4	692.0	687.0	685.7	688.9	685.1
5°	685.1	687.0	687.6	693.9	691.4	693.3	689.5	684.5	683.2	687.0	683.2
7.5°	680.0	681.9	682.6	689.5	686.3	688.9	684.5	679.4	678.8	682.6	678.8
10°	673.7	675.6	676.3	682.6	680.0	682.6	678.1	673.1	672.5	676.9	673.1
12.5°	664.9	666.8	668.1	674.4	671.2	674.4	669.3	664.3	664.9	668.7	666.2
15°	654.2	656.7	657.4	663.7	661.1	664.3	659.2	654.2	655.5	659.2	656.7
17.5°	642.9	645.4	646.0	651.7	649.2	652.9	647.3	642.9	644.1	647.9	646.0
20°	629.0	631.5	632.8	638.4	635.9	639.7	634.0	630.3	631.5	635.9	634.0
22.5°	613.2	617.0	617.6	623.9	620.8	624.6	618.9	615.8	617.6	622.1	620.2
25°	596.8	600.6	601.3	607.6	605.0	608.2	602.5	599.4	601.9	606.3	605.0
27.5°	579.2	583.0	584.2	589.9	587.4	591.2	584.9	583.0	585.5	589.9	588.7
30°	560.3	564.1	564.7	570.4	568.5	572.3	566.6	564.1	567.9	572.3	571.0
32.5°	540.1	543.9	545.8	550.8	548.9	552.1	547.1	545.8	548.9	553.4	552.7
35°	519.3	523.1	525.0	530.7	528.2	531.3	526.3	525.0	530.0	533.2	533.2
37.5°	497.9	501.7	503.6	509.2	506.1	509.9	504.8	504.2	509.9	513.0	513.0
40°	475.2	479.6	481.5	486.6	484.0	487.2	482.8	483.4	488.4	492.2	492.9
42.5°	452.5	456.9	458.8	464.5	461.3	464.5	460.7	461.3	467.0	470.8	473.9
45°	429.2	433.0	434.9	441.2	437.4	441.2	437.4	438.7	444.3	450.0	453.8
47.5°	404.6	408.4	411.6	416.6	413.4	416.6	414.1	416.0	422.9	428.6	433.6
50°	380.0	383.8	387.0	391.4	388.2	392.6	389.5	392.0	400.8	406.5	412.2
52.5°	354.8	358.0	363.0	365.5	363.0	368.1	365.5	369.3	378.2	385.1	391.4
55°	329.6	332.8	337.8	339.7	337.2	342.9	341.0	346.0	355.5	363.0	370.0
57.5°	303.8	306.9	311.3	313.2	311.3	317.6	317.0	322.7	332.1	340.3	347.9
60°	277.3	280.5	284.2	286.1	286.1	292.4	292.4	299.4	309.5	317.0	325.8
62.5°	251.5	253.4	257.1	259.7	261.6	267.9	267.9	275.4	286.1	295.0	303.8
65°	224.4	226.3	229.4	232.6	235.7	242.6	243.3	251.5	262.2	271.0	281.1
67.5°	197.3	199.2	202.3	206.1	210.5	217.4	218.7	227.5	238.9	248.9	258.4
70°	170.8	171.4	175.2	180.3	185.3	192.2	194.1	203.6	215.5	225.6	235.7
72.5°	144.3	145.0	148.7	155.0	160.7	168.3	170.8	180.9	192.9	202.9	213.0
75°	117.9	118.5	123.5	131.1	137.4	144.3	147.5	158.2	170.2	180.9	192.2
77.5°	92.6	93.9	98.9	106.5	114.1	122.3	125.4	136.1	149.4	159.5	170.2
80°	69.3	70.6	76.3	84.5	92.6	100.2	104.0	114.7	128.6	138.7	150.6
82.5°	47.9	49.8	56.7	65.5	73.7	81.9	85.7	95.8	108.4	119.7	131.1
85°	29.6	32.1	39.1	48.5	57.4	64.9	68.7	79.4	91.4	102.1	112.8
87.5°	13.9	17.6	24.6	34.0	43.5	49.8	54.2	64.9	76.3	87.0	97.7
90°	0.0	5.7	12.6	22.1	31.5	37.2	42.2	52.3	63.7	73.7	83.8
92.5°	1.3	6.3	13.9	22.7	32.1	37.8	42.9	52.9	63.7	73.7	83.8
95°	3.2	6.9	14.5	23.9	33.4	39.1	43.5	53.6	64.3	74.4	83.8
97.5°	5.7	8.8	16.4	25.2	34.7	39.7	44.7	54.8	64.9	75.0	84.5
100°	7.6	10.1	17.6	26.5	35.9	41.0	46.0	55.5	65.5	75.6	84.5
102.5°	9.5	12.6	19.5	27.7	37.2	42.2	46.6	56.1	66.2	75.6	84.5
105°	12.0	14.5	20.8	29.6	38.4	43.5	47.9	57.4	66.8	76.3	84.5
107.5°	14.5	16.4	22.7	30.9	39.7	44.1	48.5	58.0	67.4	76.3	84.5
110°	17.6	18.9	24.6	32.1	40.3	45.4	49.8	58.6	67.4	76.3	84.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	20.8	20.8	26.5	33.4	41.6	46.0	50.4	59.2	68.1	76.3	84.5
115°	23.3	23.9	28.4	34.7	42.9	47.3	51.1	59.2	68.1	76.3	83.8
117.5°	26.5	26.5	30.9	35.9	43.5	47.9	52.3	59.9	68.1	75.6	83.2
120°	29.6	29.0	32.8	37.8	44.7	48.5	52.9	60.5	68.1	75.6	82.6
122.5°	32.8	31.5	34.0	39.1	45.4	49.8	52.9	60.5	68.1	75.0	81.9
125°	35.3	34.0	35.9	41.0	46.6	50.4	53.6	60.5	68.1	74.4	81.3
127.5°	37.8	36.6	38.4	42.2	47.3	50.4	54.2	60.5	68.1	73.7	80.0
130°	40.3	38.4	41.0	43.5	48.5	51.1	54.2	60.5	67.4	73.1	78.8
132.5°	42.2	40.3	42.9	44.7	49.2	51.7	54.8	60.5	66.8	72.5	78.2
135°	43.5	41.6	44.7	46.0	50.4	52.9	55.5	60.5	66.2	71.8	76.9
137.5°	44.7	42.2	46.0	47.3	51.1	53.6	55.5	59.9	65.5	70.6	75.6
140°	45.4	43.5	47.3	48.5	50.4	52.9	55.5	59.2	64.3	69.3	73.7
142.5°	46.0	43.5	47.9	49.2	50.4	52.3	54.8	58.0	63.0	67.4	71.8
145°	46.0	44.1	47.9	49.2	50.4	51.7	53.6	57.4	61.1	64.9	69.3
147.5°	46.0	44.7	48.5	49.8	51.1	51.1	52.3	56.1	59.2	63.0	66.8
150°	46.6	44.7	48.5	49.8	51.7	51.7	52.3	54.2	58.0	60.5	63.7
152.5°	46.0	45.4	47.9	50.4	51.7	52.3	52.3	52.9	56.1	58.6	61.1
155°	46.6	46.6	48.5	51.7	52.3	52.3	52.9	52.3	53.6	56.1	58.6
157.5°	47.9	49.2	49.2	52.3	53.6	53.6	54.2	53.6	52.9	53.6	56.1
160°	49.8	51.1	51.1	52.9	54.8	54.8	55.5	54.8	54.2	53.6	53.6
162.5°	51.7	52.9	52.9	53.6	55.5	56.1	56.7	56.1	55.5	54.2	53.6
165°	53.6	54.8	54.8	54.8	56.1	56.7	57.4	56.7	56.7	55.5	54.8
167.5°	55.5	56.7	56.7	56.1	56.7	57.4	58.0	57.4	57.4	56.7	55.5
170°	57.4	58.6	58.6	57.4	58.0	58.0	58.6	58.0	58.0	56.7	56.1
172.5°	58.6	59.9	59.2	58.6	58.6	58.6	58.6	58.0	57.4	56.1	56.1
175°	59.2	60.5	60.5	59.2	58.6	58.6	59.2	58.0	57.4	56.7	55.5
177.5°	59.2	60.5	60.5	59.2	59.2	58.6	59.2	58.6	58.6	57.4	56.1
180°	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1
2.5°	687.6	687.0	683.2	687.6	687.6	686.3	691.4	690.8	690.1	688.9
5°	685.1	684.5	680.7	685.1	685.1	684.5	689.5	690.1	690.8	689.5
7.5°	681.3	680.7	676.9	681.3	681.3	680.7	686.3	687.0	687.6	685.7
10°	675.6	675.0	671.2	675.6	676.3	675.6	680.0	680.7	681.9	679.4
12.5°	668.1	668.1	664.3	668.7	669.3	668.7	673.1	674.4	675.6	672.5
15°	658.6	659.2	656.1	660.5	661.1	661.1	665.5	666.2	668.1	663.7
17.5°	647.3	648.5	646.0	650.4	651.0	651.7	654.2	656.1	658.0	652.9
20°	635.3	635.9	634.0	637.8	639.1	638.4	641.6	644.1	646.0	641.0
22.5°	620.8	621.4	619.5	623.3	624.6	625.2	627.7	630.9	632.1	627.7
25°	604.4	606.9	605.7	609.5	610.7	610.7	613.2	616.4	618.3	612.0
27.5°	588.7	591.8	590.5	594.3	595.6	596.2	597.5	601.3	603.2	597.5
30°	571.0	574.8	574.2	577.9	579.2	578.6	581.1	584.9	587.4	581.1
32.5°	551.5	556.5	555.9	560.9	562.2	562.8	564.7	569.7	572.3	566.6
35°	532.6	538.2	538.9	544.5	546.4	547.1	549.6	554.6	557.1	551.5
37.5°	513.0	520.6	522.5	528.2	530.0	530.7	533.2	538.9	541.4	535.7
40°	494.1	502.9	505.5	510.5	512.4	514.3	516.2	521.8	525.0	519.3
42.5°	475.2	484.7	487.8	492.9	494.7	496.6	499.2	505.5	508.0	502.9
45°	455.7	465.8	469.5	474.6	477.1	479.0	481.5	487.2	490.3	485.3
47.5°	436.1	446.2	450.0	455.7	458.2	460.7	462.6	469.5	472.7	467.6
50°	415.3	426.7	431.1	436.1	439.9	441.8	444.3	450.6	453.8	449.4
52.5°	394.5	406.5	411.6	416.6	420.4	423.5	424.8	431.7	434.9	430.5
55°	373.1	385.1	390.8	396.4	400.2	404.0	405.3	412.2	415.3	409.0
57.5°	351.7	364.3	370.0	376.3	379.4	383.8	385.7	392.0	395.2	390.8
60°	330.3	342.2	349.2	354.8	359.2	363.0	364.3	371.2	374.4	368.7
62.5°	308.2	320.8	327.7	334.0	337.8	342.2	344.1	350.4	352.9	347.3
65°	285.5	298.1	305.7	311.3	316.4	320.2	321.4	328.4	330.9	325.2
67.5°	262.8	275.4	283.6	289.9	294.3	298.7	300.0	306.9	309.5	305.0
70°	240.8	253.4	261.6	269.1	272.3	276.7	278.6	284.9	287.4	283.6
72.5°	218.7	231.3	240.1	247.7	250.8	255.3	257.8	262.8	266.6	263.4
75°	197.3	209.9	218.7	226.3	229.4	233.8	236.3	241.4	243.9	241.4
77.5°	176.5	189.1	197.3	204.8	208.6	212.4	214.9	220.0	223.1	220.6
80°	156.3	168.9	177.1	184.0	187.8	191.6	194.1	199.8	202.3	200.4
82.5°	137.4	149.4	158.2	165.1	168.9	172.7	175.2	180.3	183.4	180.9
85°	120.4	132.4	140.5	147.5	150.6	154.4	156.9	162.0	164.5	163.2
87.5°	104.0	114.7	124.2	131.1	134.2	138.0	141.2	145.0	148.1	146.2
90°	91.4	100.8	109.7	116.6	120.4	124.2	127.9	131.7	134.2	133.0
92.5°	92.0	100.8	109.0	115.3	119.1	122.9	126.7	131.1	133.0	131.7
95°	92.0	100.8	109.0	115.3	119.1	122.9	126.7	131.1	133.0	131.7
97.5°	92.0	100.8	109.0	115.3	119.1	122.9	126.7	131.1	133.0	131.1
100°	92.0	100.8	109.0	115.3	119.1	122.3	126.1	130.5	132.4	131.1
102.5°	92.0	100.8	108.4	114.7	118.5	121.6	125.4	129.8	131.7	130.5
105°	92.0	100.2	108.4	114.1	117.9	121.0	124.8	128.6	130.5	129.2
107.5°	91.4	99.6	107.1	113.4	116.6	119.7	123.5	127.3	129.2	127.9
110°	91.4	98.9	106.5	112.2	115.3	118.5	122.3	126.1	127.9	126.7



TEST NUMBER: P893408
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	90.8	98.3	105.9	110.9	114.1	117.2	120.4	124.8	126.7	125.4
115°	90.1	97.7	104.6	109.7	112.8	115.3	119.1	123.5	124.8	124.2
117.5°	89.5	96.4	103.4	108.4	111.6	114.1	117.2	121.0	122.9	122.3
120°	88.9	95.2	102.1	106.5	109.7	112.2	114.7	118.5	120.4	119.1
122.5°	87.6	93.9	100.8	105.3	107.8	110.3	112.8	116.0	117.9	117.2
125°	86.3	92.6	98.9	103.4	105.9	107.8	110.3	113.4	114.7	114.1
127.5°	85.1	91.4	97.1	100.8	104.0	105.9	107.8	110.9	112.2	111.6
130°	83.8	89.5	95.2	98.9	101.5	103.4	105.3	108.4	109.0	109.0
132.5°	82.6	87.6	93.3	97.1	99.6	100.8	102.7	105.3	106.5	105.9
135°	81.3	85.7	91.4	94.5	96.4	98.3	100.2	102.7	103.4	103.4
137.5°	79.4	83.8	88.9	92.0	93.9	95.2	97.1	99.6	100.2	100.2
140°	77.5	81.9	86.3	88.9	91.4	92.6	93.9	96.4	97.1	97.1
142.5°	75.6	79.4	83.8	86.3	88.9	89.5	91.4	93.3	93.9	93.9
145°	73.1	77.5	81.3	83.8	85.7	86.3	88.2	90.1	90.1	90.8
147.5°	70.0	73.7	78.8	80.7	82.6	83.2	85.1	86.3	87.0	87.0
150°	66.8	70.6	75.0	78.2	80.0	80.7	81.3	83.2	83.2	83.8
152.5°	63.7	66.8	71.2	74.4	76.9	77.5	78.2	79.4	79.4	80.0
155°	60.5	63.0	66.8	70.0	72.5	73.7	75.0	76.3	76.3	76.9
157.5°	58.0	60.5	63.7	66.2	68.1	70.0	71.8	73.1	73.1	73.1
160°	54.8	56.7	59.9	61.8	64.3	65.5	68.7	70.0	70.0	70.6
162.5°	52.9	53.6	55.5	57.4	59.2	60.5	63.7	66.8	66.8	67.4
165°	53.6	52.9	53.6	54.2	55.5	56.1	58.0	62.4	63.7	64.3
167.5°	54.8	52.9	52.9	52.9	54.2	54.2	56.1	58.6	63.0	61.8
170°	54.8	52.9	51.7	51.7	52.3	51.7	52.9	54.8	57.4	59.9
172.5°	55.5	53.6	51.7	49.2	49.8	49.2	47.9	47.9	48.5	56.7
175°	54.8	53.6	51.1	47.9	47.3	45.4	41.6	38.4	36.6	28.4
177.5°	54.2	52.3	50.4	47.9	46.6	44.7	40.3	35.3	30.3	29.0
180°	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.21	14.53	13.83	15.16	15.89	15.76	17.08	16.38	17.72	18.44
	3H	14.62	15.82	15.25	16.46	17.22	18.19	19.39	18.82	20.03	20.79
	4H	15.05	16.18	15.69	16.84	17.61	19.33	20.47	19.98	21.12	21.89
	6H	15.28	16.34	15.94	17.00	17.79	20.47	21.53	21.13	22.19	22.98
	8H	15.33	16.34	16.00	17.02	17.81	21.03	22.04	21.70	22.73	23.51
	12H	15.34	16.30	16.01	16.99	17.80	21.61	22.58	22.29	23.26	24.08
4H	2H	14.10	15.24	14.75	15.89	16.66	16.11	17.25	16.76	17.90	18.67
	3H	15.73	16.69	16.39	17.38	18.17	18.74	19.71	19.41	20.40	21.19
	4H	16.28	17.17	16.96	17.86	18.68	20.03	20.92	20.71	21.62	22.43
	6H	16.62	17.40	17.32	18.12	18.95	21.34	22.12	22.04	22.84	23.67
	8H	16.70	17.43	17.40	18.15	18.99	22.00	22.73	22.71	23.45	24.29
	12H	16.73	17.39	17.45	18.13	18.98	22.70	23.37	23.43	24.11	24.96
8H	4H	16.93	17.66	17.63	18.38	19.22	20.19	20.92	20.89	21.64	22.48
	6H	17.43	18.05	18.17	18.81	19.65	21.64	22.26	22.37	23.02	23.86
	8H	17.59	18.14	18.33	18.91	19.76	22.42	22.98	23.17	23.74	24.60
	12H	17.68	18.17	18.43	18.93	19.84	23.28	23.78	24.03	24.53	25.45
12H	4H	17.09	17.76	17.82	18.50	19.35	20.18	20.84	20.90	21.58	22.43
	6H	17.69	18.25	18.44	19.01	19.87	21.66	22.22	22.40	22.98	23.83
	8H	17.93	18.42	18.67	19.17	20.09	22.49	22.98	23.24	23.74	24.65