

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: P893445

Luminaire Tested: 4MB-3SL-RND-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-3SL-RND-UNV-L930
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

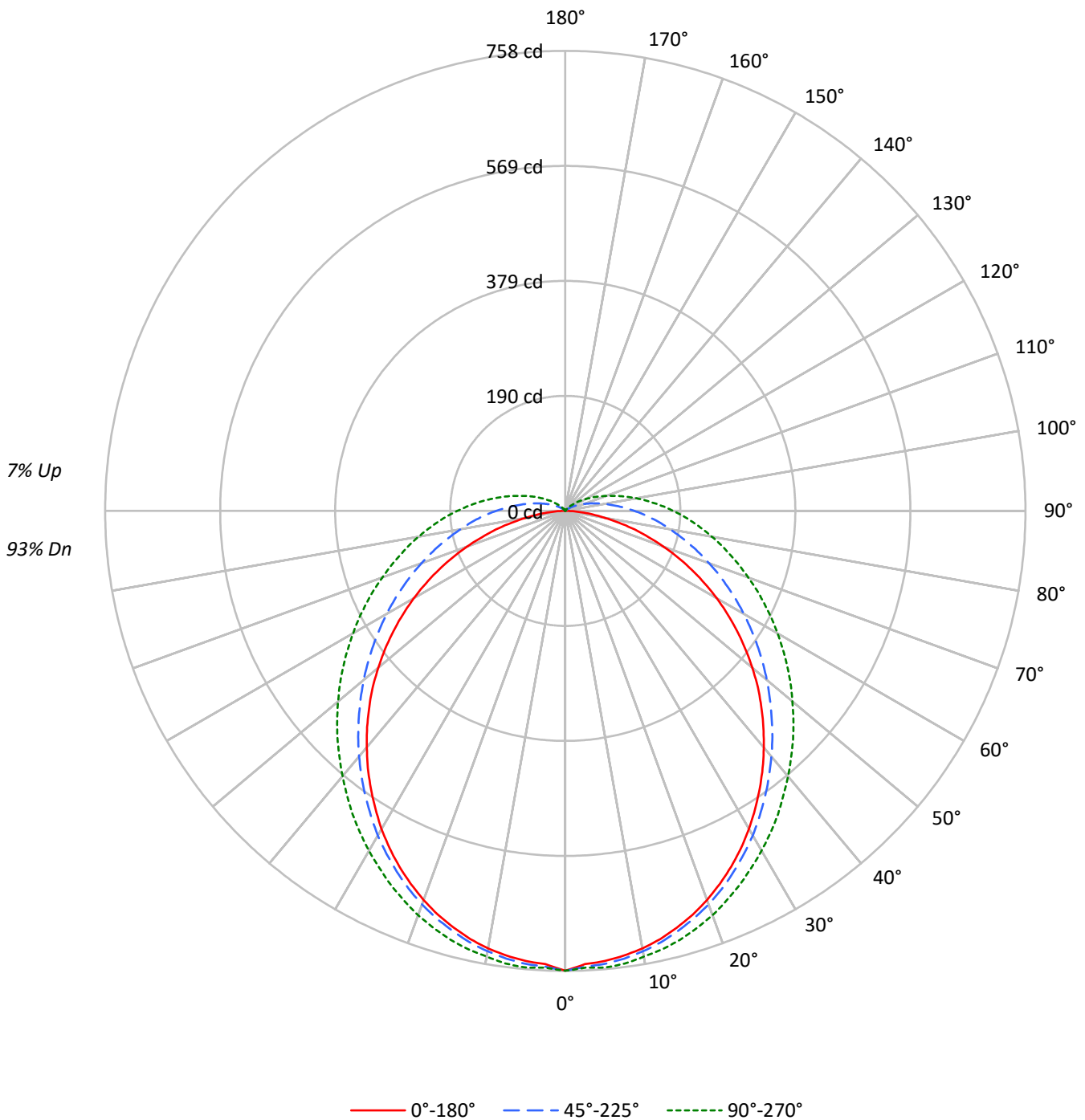
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2508.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: 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

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	43
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24	24	24	24	23
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5390	5390	5390
5°	5318	5352	5394
10°	5289	5324	5388
15°	5236	5279	5388
20°	5166	5224	5368
25°	5077	5152	5338
30°	4973	5075	5313
35°	4850	4984	5304
40°	4724	4906	5303
45°	4593	4838	5339
50°	4449	4796	5407
55°	4287	4787	5537
60°	4100	4834	5745
65°	3872	4960	6088
70°	3588	5240	6671
75°	3244	5833	7741
80°	2745	7191	10055
85°	2229	11715	17225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 31710 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	2.9
10°-20°	204.1	8.1
20°-30°	305.7	12.2
30°-40°	364.5	14.5
40°-50°	378.0	15.1
50°-60°	350.7	14.0
60°-70°	292.6	11.7
70°-80°	218.1	8.7
80°-90°	145.2	5.8
90°-100°	88.4	3.5
100°-110°	49.4	2.0
110°-120°	24.7	1.0
120°-130°	10.3	0.4
130°-140°	3.2	0.1
140°-150°	0.8	0.0
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	581.5	23.2
0°-40°	945.9	37.7
0°-60°	1674.6	66.8
0°-90°	2330.5	92.9
90°-120°	162.4	6.5
90°-150°	176.8	7.1
90°-180°	178.0	7.1
0°-180°	2508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	745	762	749	754	755	71
15°	711	729	717	730	732	200
25°	647	664	656	675	680	298
35°	558	573	574	602	611	349
45°	456	468	481	519	531	352
55°	346	358	386	431	446	309
65°	230	248	295	344	362	228
75°	118	151	212	264	282	125
85°	27	75	144	193	211	31
90°	1	49	114	161	178	2
95°	0	30	88	132	147	0
105°	0	10	48	81	94	0
115°	1	2	22	46	54	1
125°	1	1	9	22	27	1
135°	1	1	2	8	10	0
145°	1	1	1	2	2	0
155°	1	1	1	1	1	1
165°	1	1	1	1	1	0
175°	1	1	1	1	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6
2.5°	747.5	748.7	759.4	758.8	757.0	764.1	765.9	760.0	750.5	760.0	751.7
5°	744.6	745.7	756.4	755.8	754.0	761.8	762.3	757.0	747.5	757.0	749.3
7.5°	739.2	740.4	751.1	750.5	749.3	757.0	756.4	752.3	742.2	752.3	744.0
10°	732.1	732.7	744.0	742.8	742.2	749.9	748.1	744.6	734.5	744.6	736.9
12.5°	722.6	723.2	734.5	733.3	733.3	740.4	738.0	735.1	725.0	734.5	728.0
15°	710.8	711.4	722.0	721.4	721.4	729.1	725.6	723.2	713.7	723.8	716.7
17.5°	697.7	697.1	708.4	707.2	708.4	715.5	710.8	709.6	700.7	710.2	704.2
20°	682.3	682.3	692.4	691.8	693.6	700.1	694.2	694.8	685.9	695.9	690.0
22.5°	665.1	664.5	674.6	674.6	676.4	682.9	676.4	678.2	669.3	678.8	674.0
25°	646.7	645.6	655.6	655.6	658.6	663.9	656.8	659.2	650.9	660.4	656.2
27.5°	626.6	624.8	634.9	635.5	637.9	643.2	635.5	639.0	631.3	640.2	637.3
30°	605.3	603.5	613.6	614.1	617.1	621.3	613.6	618.3	611.2	620.1	617.7
32.5°	582.1	580.9	590.4	591.6	594.6	597.5	590.4	595.2	589.2	598.1	595.8
35°	558.4	557.2	566.1	567.9	570.9	573.2	565.5	572.1	566.7	575.0	573.8
37.5°	534.1	532.3	541.8	543.0	546.6	547.7	540.6	548.3	543.6	551.9	551.3
40°	508.6	506.8	516.3	517.5	521.1	521.1	515.1	523.4	519.9	527.6	528.2
42.5°	483.1	481.4	489.7	492.0	495.0	495.0	489.1	498.0	495.6	503.3	505.1
45°	456.5	454.7	462.4	464.8	468.3	468.3	462.4	472.5	470.7	478.4	480.8
47.5°	430.4	428.0	435.1	437.5	441.0	440.5	435.7	445.8	445.2	452.9	457.1
50°	401.9	400.1	407.3	409.6	413.8	412.6	409.0	419.7	419.7	427.4	433.3
52.5°	374.1	372.3	379.4	381.8	385.3	385.3	381.8	393.0	394.8	402.5	409.6
55°	345.6	343.2	350.3	352.7	356.9	357.5	354.5	365.8	369.3	378.2	385.9
57.5°	317.1	316.0	321.9	324.3	329.6	329.6	327.8	339.7	344.4	353.9	362.8
60°	288.1	286.9	292.3	295.2	301.1	302.3	301.1	313.6	320.1	329.6	339.7
62.5°	259.1	257.9	263.2	267.4	273.9	275.1	275.7	288.7	295.8	305.9	317.1
65°	230.0	228.8	234.2	238.9	246.6	248.4	250.2	263.8	272.1	282.8	294.6
67.5°	201.0	200.4	205.7	211.6	219.9	222.3	225.3	239.5	249.0	260.2	273.3
70°	172.5	171.9	177.2	184.4	194.4	197.4	201.0	215.2	227.0	238.9	251.9
72.5°	144.1	144.6	150.6	158.9	170.1	173.1	177.8	192.7	205.7	218.2	231.8
75°	118.0	118.0	124.5	134.0	146.4	150.6	155.9	171.3	185.0	198.0	212.2
77.5°	91.3	91.3	99.0	110.9	124.5	128.6	135.2	151.2	166.0	179.0	193.3
80°	67.0	68.2	77.1	88.9	103.1	108.5	116.2	132.2	148.2	161.2	175.5
82.5°	45.6	47.4	56.9	70.5	84.8	90.1	97.8	115.0	131.0	144.6	159.5
85°	27.3	30.2	40.3	53.9	68.8	74.7	83.0	99.0	115.0	128.6	143.5
87.5°	12.4	16.6	27.3	40.9	55.1	61.7	68.8	84.2	100.2	113.8	129.2
90°	1.2	7.1	17.8	29.6	43.3	49.2	56.3	71.1	86.5	99.0	113.8
92.5°	0.0	3.0	10.7	21.3	33.2	39.1	45.6	59.9	73.5	86.0	100.2
95°	0.0	1.2	5.9	14.8	24.9	30.2	36.2	49.2	62.8	74.7	87.7
97.5°	0.0	0.6	3.6	10.1	18.4	23.1	28.5	40.3	52.8	64.0	75.9
100°	0.0	0.6	1.8	6.5	13.6	17.2	22.5	32.6	43.9	53.9	65.8
102.5°	0.0	0.0	1.2	4.1	10.1	13.0	17.2	26.1	36.2	45.6	56.3
105°	0.0	0.0	0.6	3.0	7.1	9.5	13.0	20.7	29.6	37.9	48.0
107.5°	0.0	0.0	0.6	1.8	4.7	7.1	10.1	16.0	23.7	31.4	40.3
110°	0.6	0.6	0.6	1.2	3.6	5.3	7.1	12.4	19.6	26.1	33.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.6	0.6	0.6	0.6	2.4	3.6	5.3	9.5	15.4	20.7	27.9
115°	0.6	0.6	0.6	0.6	1.8	2.4	3.6	7.1	11.9	16.6	22.5
117.5°	0.6	0.6	0.6	0.6	1.2	1.8	2.4	5.3	8.9	13.0	18.4
120°	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.6	7.1	10.1	14.8
122.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	3.0	5.3	7.7	11.3
125°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.6	5.9	8.9
127.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	2.4	4.1	6.5
130°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.0	4.7
132.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	2.4	3.6
135°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	2.4
137.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8
140°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
142.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
145°	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
147.5°	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
150°	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
152.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
155°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6
167.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6
170°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
172.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6
175°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
177.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6
2.5°	754.0	755.8	757.6	752.9	755.8	761.2	762.9	755.8	758.2	753.5
5°	751.7	752.9	755.2	749.3	753.5	758.2	761.2	755.2	758.8	755.2
7.5°	746.9	748.1	751.1	745.2	750.5	754.6	758.2	752.3	755.8	752.3
10°	739.8	741.6	745.7	738.6	745.2	748.7	752.3	745.7	749.3	745.7
12.5°	730.9	733.9	737.4	730.9	737.4	740.4	745.2	738.6	742.8	739.8
15°	720.3	723.2	728.0	721.4	729.7	732.1	736.9	730.3	734.5	731.5
17.5°	707.8	711.4	717.3	709.6	719.1	720.8	725.6	719.7	723.8	720.8
20°	693.6	697.1	703.1	695.9	705.4	706.6	712.0	706.6	710.8	709.0
22.5°	677.0	681.1	687.1	680.5	690.6	690.6	697.1	691.8	696.5	694.8
25°	659.8	664.5	671.1	663.9	674.6	674.6	681.7	676.4	681.1	679.9
27.5°	641.4	646.7	654.5	647.3	658.0	657.4	664.5	659.8	665.1	663.3
30°	621.8	627.8	635.5	629.6	640.8	639.6	646.7	642.6	647.3	646.7
32.5°	600.5	607.0	616.5	610.0	621.3	620.1	629.0	624.2	630.1	629.0
35°	579.2	586.3	595.8	589.8	602.3	600.5	609.4	605.3	611.2	610.6
37.5°	557.2	564.9	574.4	569.7	581.5	579.8	589.2	585.7	592.2	590.4
40°	534.7	542.4	552.5	548.3	560.8	558.4	568.5	565.5	572.1	570.9
42.5°	512.2	520.5	530.6	528.2	540.0	537.7	547.7	545.4	551.9	550.7
45°	489.1	498.0	508.6	506.3	518.7	516.3	526.4	524.6	531.2	530.6
47.5°	465.9	475.4	486.1	484.9	496.8	494.4	505.1	503.3	509.8	509.8
50°	442.2	452.9	463.6	463.0	474.8	472.5	481.9	481.9	489.1	488.5
52.5°	418.5	429.8	441.0	441.0	452.9	450.5	461.2	460.6	467.7	467.7
55°	396.0	406.1	417.3	419.7	431.0	427.4	438.7	439.9	445.8	446.4
57.5°	373.5	384.1	395.4	398.4	409.0	406.7	417.3	418.5	424.4	425.0
60°	350.9	361.0	372.3	376.4	387.1	384.7	395.4	396.6	403.1	403.7
62.5°	328.4	338.5	350.9	355.1	365.2	363.4	374.7	375.8	381.8	383.0
65°	306.5	317.1	329.0	334.9	344.4	342.0	353.3	354.5	361.0	361.6
67.5°	285.1	295.8	307.7	314.2	323.1	321.9	332.6	334.9	340.3	341.5
70°	264.4	275.1	287.5	294.0	302.9	302.3	312.4	314.2	320.1	320.7
72.5°	244.2	254.9	267.4	275.1	282.8	282.2	292.3	294.6	300.6	301.1
75°	224.7	235.9	247.8	256.1	263.8	263.2	273.3	275.7	281.0	281.6
77.5°	206.3	217.6	230.0	238.3	244.8	245.4	254.3	256.7	262.0	263.8
80°	189.1	199.8	211.6	220.5	226.5	227.6	235.9	238.9	243.0	245.4
82.5°	172.5	183.2	195.0	203.3	209.3	210.4	218.2	221.7	225.9	227.6
85°	156.5	167.2	178.4	187.3	192.7	193.3	201.0	204.5	208.1	211.0
87.5°	141.1	151.8	162.4	171.9	176.7	177.8	185.0	188.5	191.5	194.4
90°	125.7	136.3	147.0	155.9	160.6	161.2	168.9	172.5	175.5	177.8
92.5°	111.4	122.1	132.8	141.7	145.8	147.0	153.5	157.7	160.1	162.4
95°	97.8	108.5	118.0	127.5	131.6	133.4	139.3	142.9	145.8	147.0
97.5°	86.0	95.4	104.3	113.8	117.4	119.2	125.1	129.2	131.6	132.8
100°	74.7	83.6	91.9	100.8	104.3	106.1	111.4	115.0	117.4	119.2
102.5°	64.6	72.9	80.6	88.9	92.5	93.7	98.4	102.0	104.3	106.1
105°	55.7	63.4	70.5	78.2	81.2	83.0	87.1	90.1	92.5	93.7
107.5°	47.4	55.1	61.1	68.2	71.1	72.3	76.5	80.0	81.8	82.4
110°	40.3	46.8	52.8	58.7	62.2	63.4	67.0	70.0	71.7	72.3



TEST NUMBER: P893445

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	33.8	39.7	45.1	50.4	53.4	54.5	58.1	61.1	62.2	62.8
115°	27.9	33.8	37.9	43.3	45.6	46.8	49.8	52.8	53.4	54.5
117.5°	22.5	27.9	32.0	36.2	38.5	39.7	42.1	44.5	45.6	46.2
120°	18.4	22.5	26.1	30.2	32.0	33.2	35.6	37.9	38.5	39.1
122.5°	14.8	18.4	21.3	24.9	26.7	27.9	29.6	31.4	32.0	32.6
125°	11.3	14.8	17.2	20.2	21.9	22.5	24.3	26.1	26.7	27.3
127.5°	8.9	11.3	13.6	16.0	17.2	17.8	19.6	20.7	21.3	21.9
130°	6.5	8.3	10.1	12.4	13.6	14.2	15.4	16.6	17.2	17.2
132.5°	4.7	6.5	7.7	9.5	10.1	10.7	11.9	13.0	13.0	13.6
135°	3.0	4.1	5.3	6.5	7.7	7.7	8.9	9.5	10.1	10.1
137.5°	2.4	3.0	3.6	4.7	5.3	5.9	5.9	7.1	7.1	7.1
140°	1.8	2.4	2.4	3.0	3.6	4.1	4.1	4.7	4.7	4.7
142.5°	1.2	1.8	1.8	2.4	2.4	3.0	3.0	3.0	3.6	3.6
145°	1.2	1.2	1.2	1.8	1.8	1.8	1.8	2.4	2.4	2.4
147.5°	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8
150°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
152.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
167.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
170°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
172.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
175°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
177.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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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	16.14	17.68	16.61	18.13	18.62	17.71	19.25	18.18	19.71	20.19
	3H	17.82	19.22	18.30	19.69	20.21	20.34	21.74	20.82	22.21	22.73
	4H	18.42	19.75	18.92	20.23	20.77	21.65	22.98	22.15	23.46	24.00
	6H	18.81	20.05	19.33	20.55	21.11	23.05	24.29	23.57	24.79	25.35
	8H	18.93	20.12	19.46	20.64	21.20	23.80	24.99	24.33	25.51	26.07
	12H	19.01	20.15	19.54	20.66	21.25	24.65	25.79	25.19	26.31	26.90
4H	2H	17.07	18.40	17.57	18.88	19.42	18.26	19.59	18.77	20.08	20.62
	3H	19.05	20.18	19.56	20.71	21.27	21.18	22.32	21.70	22.84	23.41
	4H	19.82	20.86	20.36	21.40	22.00	22.70	23.74	23.24	24.28	24.88
	6H	20.40	21.32	20.96	21.89	22.50	24.35	25.27	24.90	25.83	26.44
	8H	20.59	21.45	21.15	22.02	22.64	25.23	26.09	25.79	26.66	27.28
	12H	20.71	21.50	21.29	22.09	22.72	26.23	27.02	26.81	27.61	28.24
8H	4H	20.70	21.57	21.26	22.13	22.75	23.06	23.93	23.63	24.50	25.12
	6H	21.58	22.32	22.18	22.93	23.55	24.97	25.70	25.56	26.31	26.94
	8H	21.93	22.60	22.54	23.21	23.85	26.05	26.71	26.65	27.33	27.97
	12H	22.20	22.80	22.81	23.40	24.11	27.31	27.91	27.92	28.51	29.22
12H	4H	20.98	21.77	21.56	22.36	22.99	23.11	23.89	23.69	24.49	25.11
	6H	22.03	22.70	22.64	23.32	23.96	25.08	25.74	25.68	26.36	27.00
	8H	22.55	23.15	23.16	23.75	24.46	26.27	26.87	26.88	27.47	28.18