

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: P893393

Luminaire Tested: 4MB-3SL-FLT-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-3SL-FLT-UNV-L830
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

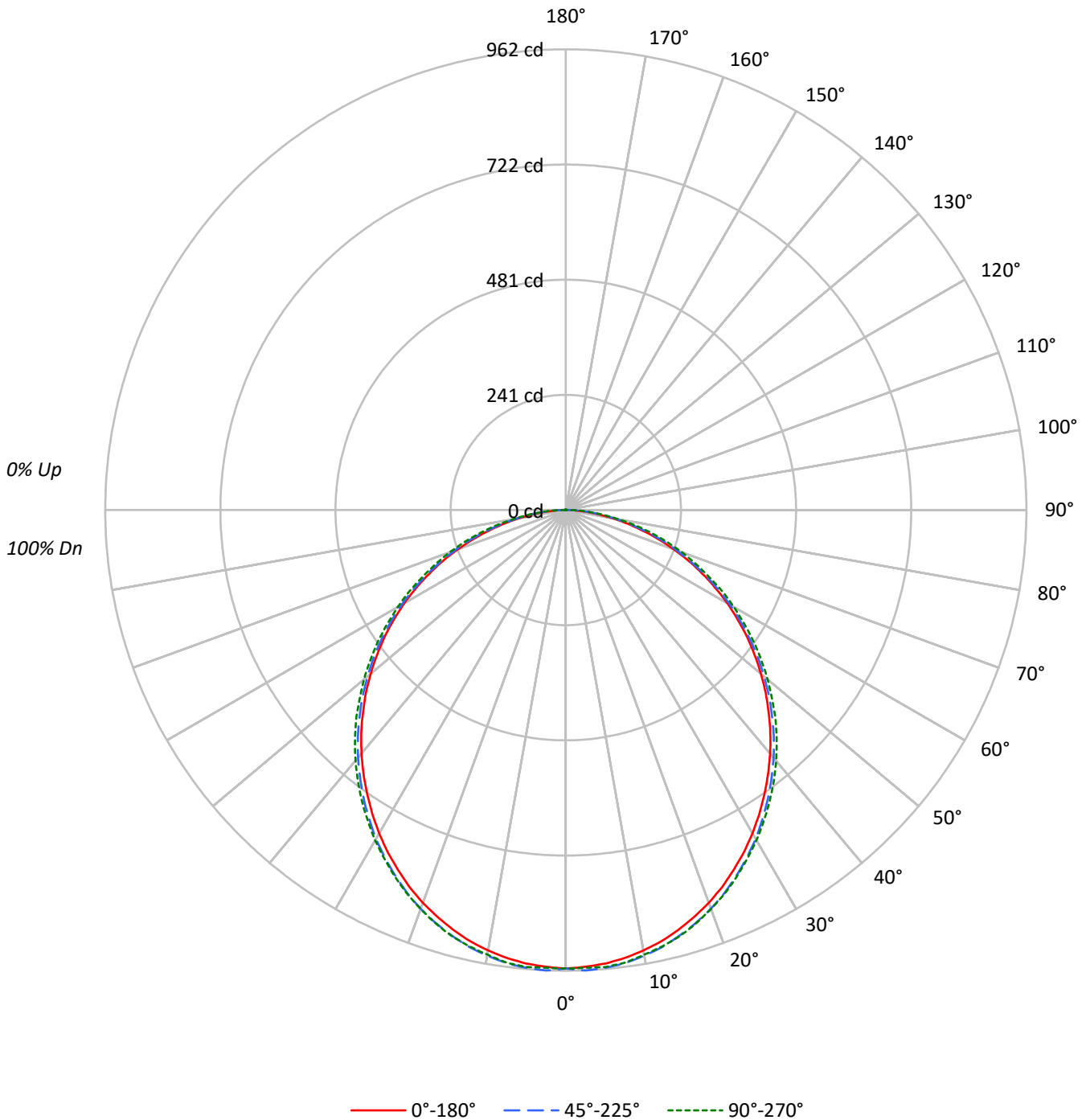
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2658.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
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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CATALOG NUMBER: 4MB-3SL-FLT-UNV-L830

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	86	86	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6813	6813	6813
5°	6789	6854	6839
10°	6746	6827	6812
15°	6686	6774	6785
20°	6608	6708	6714
25°	6510	6615	6631
30°	6404	6513	6542
35°	6283	6393	6447
40°	6165	6269	6347
45°	6030	6129	6235
50°	5889	5982	6091
55°	5730	5817	5939
60°	5545	5635	5766
65°	5298	5404	5547
70°	4986	5132	5367
75°	4585	4778	5088
80°	4048	4364	4597
85°	3494	4008	4294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.4
10°-20°	258.1	9.7
20°-30°	386.7	14.6
30°-40°	460.2	17.3
40°-50°	472.2	17.8
50°-60°	423.0	15.9
60°-70°	321.4	12.1
70°-80°	186.8	7.0
80°-90°	56.1	2.1
90°-100°	1.3	0.1
100°-110°	0.2	0.0
110°-120°	0.0	0.0
120°-130°	0.1	0.0
130°-140°	0.3	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	735.4	27.7
0°-40°	1195.5	45.0
0°-60°	2090.7	78.7
0°-90°	2655.0	99.9
90°-120°	1.6	0.1
90°-150°	2.4	0.1
90°-180°	3.0	0.1
0°-180°	2658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	950	967	960	955	958	90
15°	908	925	920	918	921	256
25°	829	848	843	841	845	382
35°	723	741	736	738	742	453
45°	599	614	609	614	620	462
55°	462	473	469	475	479	413
65°	315	322	321	327	330	311
75°	167	173	174	180	185	177
85°	43	46	49	53	53	47
90°	1	3	3	5	4	3
95°	0	1	1	1	2	0
105°	0	0	0	1	1	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	1	0	0	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P893393
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5
2.5°	954.7	953.3	954.7	954.0	961.0	969.4	968.0	961.7	954.7	956.8	962.4
5°	950.5	949.8	951.9	950.5	957.5	966.6	963.8	958.2	951.9	954.0	959.6
7.5°	943.5	943.5	946.3	944.9	951.2	960.3	957.5	952.6	946.3	948.4	954.0
10°	933.7	934.4	937.9	935.8	941.4	951.2	948.4	943.5	937.9	939.3	944.9
12.5°	922.5	922.5	926.7	924.6	930.2	939.3	935.8	932.3	926.7	928.1	934.4
15°	907.7	908.4	913.4	911.3	916.2	925.3	921.8	919.0	914.1	914.8	919.7
17.5°	890.9	893.0	897.9	895.8	900.7	909.8	905.6	902.8	898.6	899.3	904.2
20°	872.7	874.8	879.7	878.3	881.8	890.9	886.7	885.3	881.1	881.8	886.0
22.5°	852.4	854.5	860.1	858.7	862.2	871.3	866.4	865.7	861.5	862.2	865.7
25°	829.2	832.0	838.4	836.9	839.8	848.2	844.0	842.6	839.8	839.8	842.6
27.5°	805.4	808.2	815.2	813.1	815.2	824.3	819.4	818.7	815.9	815.9	818.7
30°	779.5	782.3	790.0	787.9	790.0	797.7	792.8	793.5	790.7	790.7	792.8
32.5°	752.1	754.2	762.6	761.2	762.6	770.4	765.5	766.2	763.3	764.0	764.7
35°	723.4	725.5	734.6	733.2	733.9	740.9	737.4	737.4	735.3	734.6	736.0
37.5°	694.0	696.1	707.3	703.8	703.8	710.8	708.0	708.0	705.9	705.2	705.9
40°	663.8	665.2	677.1	673.6	672.9	679.2	677.1	677.1	675.7	674.3	675.0
42.5°	632.3	634.4	646.3	643.5	640.7	647.7	645.6	646.3	644.2	642.8	642.8
45°	599.3	601.4	613.3	611.9	607.7	614.0	611.9	613.3	610.5	609.1	609.1
47.5°	566.4	569.2	580.4	578.3	574.1	580.4	578.3	579.7	576.9	575.5	575.5
50°	532.0	534.8	546.8	543.2	539.0	545.3	543.9	544.6	542.5	541.1	540.4
52.5°	497.0	500.5	511.7	507.5	504.0	509.6	508.9	509.6	506.8	506.1	505.4
55°	461.9	465.4	476.0	471.0	468.2	473.1	471.7	473.1	470.3	469.6	468.9
57.5°	425.5	429.0	438.8	433.9	431.8	436.0	435.3	436.0	433.9	433.2	432.5
60°	389.7	392.5	401.7	396.7	394.6	398.8	397.4	399.5	396.7	396.7	396.0
62.5°	351.9	355.4	364.5	358.9	357.5	361.0	359.6	361.7	360.3	358.9	358.2
65°	314.7	316.8	325.2	320.3	318.2	322.4	321.7	323.1	321.0	321.7	321.0
67.5°	277.6	279.0	287.4	281.8	280.4	284.6	285.3	284.6	283.2	283.9	283.2
70°	239.7	241.1	248.1	243.2	242.5	246.0	247.4	246.7	245.3	246.0	246.7
72.5°	203.3	204.0	210.3	206.1	205.4	209.6	209.6	209.6	209.6	209.6	211.0
75°	166.8	167.5	173.1	169.6	168.9	173.1	173.1	173.1	173.1	174.5	173.8
77.5°	131.8	131.1	136.7	134.6	133.2	137.4	137.4	138.1	139.5	140.9	138.8
80°	98.8	98.1	102.3	99.5	99.5	103.7	103.0	103.7	105.1	105.8	106.5
82.5°	69.4	68.0	71.5	70.8	70.1	73.6	74.3	73.6	75.7	76.4	76.4
85°	42.8	42.8	44.9	43.5	43.5	46.3	46.3	47.0	48.4	49.1	49.1
87.5°	20.3	19.6	21.7	21.0	20.3	22.4	22.4	23.1	23.8	24.5	23.8
90°	0.7	0.7	1.4	1.4	1.4	2.8	2.8	2.8	3.5	3.5	2.8
92.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4
95°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.7
132.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
135°	0.0	0.7	0.7	0.7	0.7	0.0	0.7	0.0	0.0	0.0	0.7
137.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
140°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
142.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
145°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
150°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
167.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7
170°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7
172.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	1.4	1.4
177.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5
2.5°	954.0	949.1	947.0	948.4	958.2	948.4	958.9	962.4	949.8	956.8
5°	951.2	946.3	943.5	944.9	954.7	945.6	956.8	961.0	950.5	957.5
7.5°	945.6	940.0	938.6	940.7	949.1	941.4	952.6	956.8	946.3	953.3
10°	937.2	932.3	930.9	933.0	940.7	933.0	942.8	946.3	936.5	942.8
12.5°	926.7	921.8	920.4	923.2	930.2	923.2	933.0	936.5	926.7	933.0
15°	913.4	908.4	907.7	912.0	918.3	912.0	921.8	924.6	914.8	921.1
17.5°	897.2	892.3	893.0	897.9	902.8	897.2	906.3	909.1	900.0	904.9
20°	879.7	874.1	875.5	879.7	883.9	878.3	887.4	890.2	881.8	886.7
22.5°	859.4	853.8	855.2	860.1	862.9	858.0	866.4	869.2	862.2	867.1
25°	836.9	832.0	834.1	839.1	841.2	836.9	844.7	846.8	840.5	844.7
27.5°	814.5	808.9	811.7	816.6	818.0	813.8	821.5	822.9	816.6	820.8
30°	789.3	783.7	787.2	792.8	792.8	790.0	796.3	797.7	792.8	796.3
32.5°	761.2	757.0	761.2	766.2	765.5	763.3	769.7	771.1	766.9	769.7
35°	733.2	729.7	733.9	738.8	738.1	736.0	742.3	743.0	739.5	742.3
37.5°	704.5	701.7	705.9	710.1	708.7	707.3	712.9	712.9	710.8	713.6
40°	675.0	672.2	675.7	680.6	677.8	677.8	681.3	682.7	680.6	683.4
42.5°	644.2	641.4	645.6	649.8	647.0	646.3	650.5	651.2	649.8	651.9
45°	611.9	609.1	613.3	616.8	614.0	614.0	617.5	617.5	616.8	619.7
47.5°	579.0	576.9	580.4	583.9	581.1	583.2	583.2	583.2	584.6	583.9
50°	545.3	543.2	546.0	550.3	546.8	547.5	548.9	548.9	549.6	550.3
52.5°	510.3	507.5	510.3	515.2	510.3	512.4	513.1	513.8	515.9	514.5
55°	475.3	472.4	475.3	479.5	474.6	477.4	477.4	478.1	480.2	478.8
57.5°	438.8	436.0	440.2	443.0	438.1	440.9	440.9	442.3	443.7	441.6
60°	402.4	400.2	401.7	406.6	401.7	404.5	404.5	404.5	407.3	405.2
62.5°	365.2	363.8	365.2	369.4	364.5	367.3	366.6	367.3	370.1	369.4
65°	327.3	325.9	327.3	331.6	326.6	329.5	329.5	330.2	332.3	329.5
67.5°	290.2	288.1	290.2	293.7	289.5	291.6	291.6	291.6	295.1	293.7
70°	252.3	250.9	252.3	255.9	252.3	253.7	253.7	253.7	257.3	258.0
72.5°	215.2	215.2	216.6	219.4	216.6	219.4	217.3	215.9	220.8	221.5
75°	178.7	179.4	180.1	183.0	180.1	183.0	181.5	180.1	184.4	185.1
77.5°	145.1	145.1	145.8	147.9	145.8	147.9	146.5	146.5	149.3	148.6
80°	110.8	110.8	111.5	113.6	111.5	113.6	112.2	112.2	115.0	112.2
82.5°	80.6	80.6	80.6	82.7	81.3	82.7	82.0	80.6	84.1	81.3
85°	51.9	52.6	52.6	53.3	52.6	53.3	53.3	52.6	54.7	52.6
87.5°	26.6	26.6	26.6	27.3	26.6	26.6	27.3	26.6	28.0	27.3
90°	4.9	4.2	4.2	5.6	4.9	4.9	5.6	4.2	4.9	4.2
92.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8
95°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
97.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
100°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
102.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
105°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.7	0.7
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7



TEST NUMBER: P893393
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.7	0.7	0.7	0.7	0.0	0.7	0.0	0.0	0.0	0.0
140°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
142.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
145°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
150°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
167.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
170°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
172.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
175°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
177.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



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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	18.17	19.81	18.54	20.13	20.44	18.31	19.95	18.68	20.26	20.58
	3H	20.00	21.48	20.38	21.81	22.17	20.14	21.62	20.52	21.95	22.31
	4H	20.66	22.05	21.06	22.40	22.78	20.85	22.24	21.25	22.59	22.97
	6H	21.11	22.40	21.52	22.77	23.16	21.41	22.70	21.82	23.07	23.46
	8H	21.25	22.49	21.68	22.88	23.28	21.60	22.84	22.03	23.23	23.63
	12H	21.35	22.53	21.78	22.91	23.35	21.74	22.93	22.17	23.31	23.74
4H	2H	18.81	20.20	19.21	20.55	20.93	18.92	20.31	19.31	20.66	21.04
	3H	20.85	22.02	21.26	22.42	22.82	20.98	22.15	21.39	22.55	22.96
	4H	21.64	22.70	22.07	23.12	23.56	21.83	22.89	22.26	23.30	23.74
	6H	22.22	23.15	22.67	23.59	24.05	22.52	23.45	22.97	23.89	24.35
	8H	22.41	23.28	22.87	23.72	24.19	22.76	23.63	23.23	24.08	24.55
	12H	22.55	23.33	23.03	23.81	24.28	22.96	23.74	23.44	24.22	24.69
8H	4H	21.97	22.84	22.43	23.28	23.75	22.14	23.01	22.60	23.45	23.92
	6H	22.67	23.40	23.17	23.89	24.36	22.96	23.69	23.46	24.18	24.65
	8H	22.94	23.59	23.45	24.09	24.58	23.29	23.94	23.80	24.45	24.94
	12H	23.15	23.73	23.66	24.22	24.78	23.58	24.15	24.08	24.64	25.21
12H	4H	22.01	22.80	22.50	23.27	23.74	22.17	22.95	22.65	23.43	23.90
	6H	22.74	23.39	23.25	23.90	24.39	23.02	23.67	23.53	24.18	24.67
	8H	23.07	23.64	23.58	24.14	24.70	23.41	23.99	23.92	24.48	25.04