

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: P893394

Luminaire Tested: 4MB-3SL-FLT-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893394
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-L835
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

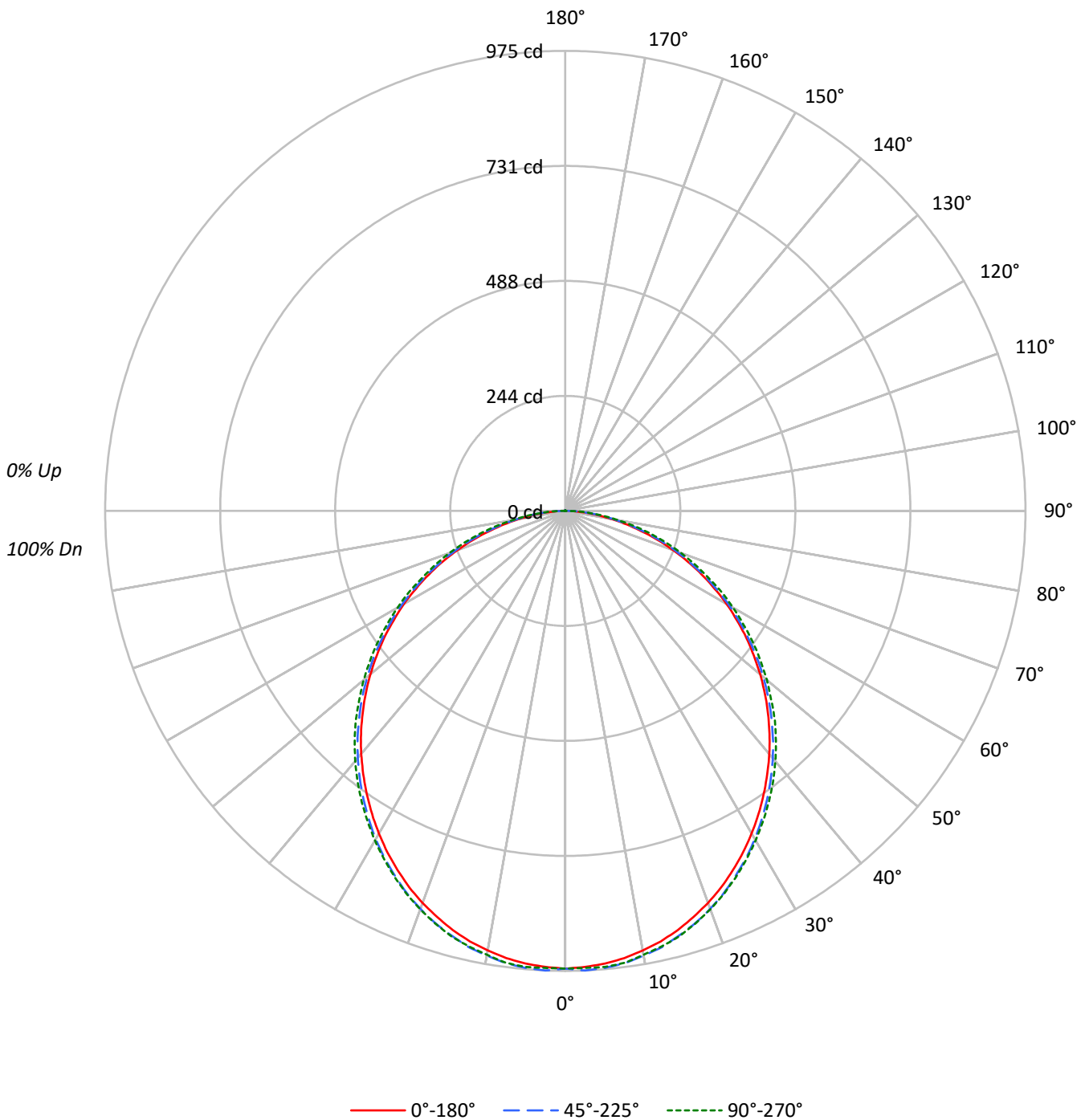
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2693.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

TEST NUMBER: P893394
CATALOG NUMBER: 4MB-3SL-FLT-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P893394

CATALOG NUMBER: 4MB-3SL-FLT-UNV-L835

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	6902	6902	6902
5°	6878	6944	6929
10°	6835	6916	6901
15°	6774	6864	6874
20°	6695	6797	6802
25°	6596	6702	6718
30°	6488	6599	6628
35°	6366	6477	6533
40°	6247	6352	6431
45°	6110	6210	6317
50°	5966	6061	6171
55°	5805	5893	6017
60°	5619	5710	5841
65°	5369	5477	5620
70°	5053	5201	5438
75°	4646	4841	5154
80°	4101	4421	4655
85°	3535	4057	4351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6317 cd/sqm



TEST NUMBER: P893394
 CATALOG NUMBER: 4MB-3SL-FLT-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	3.4
10°-20°	261.5	9.7
20°-30°	391.8	14.6
30°-40°	466.2	17.3
40°-50°	478.4	17.8
50°-60°	428.6	15.9
60°-70°	325.6	12.1
70°-80°	189.3	7.0
80°-90°	56.8	2.1
90°-100°	1.3	0.0
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°	745.0	27.7
0°-40°	1211.3	45.0
0°-60°	2118.2	78.7
0°-90°	2689.9	99.9
90°-120°	1.6	0.1
90°-150°	2.4	0.1
90°-180°	3.0	0.1
0°-180°	2693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	963	979	972	967	970	91
15°	920	938	932	930	933	259
25°	840	859	854	852	856	387
35°	733	751	746	748	752	459
45°	607	622	617	622	628	469
55°	468	479	475	481	485	418
65°	319	327	325	331	334	316
75°	169	175	176	182	188	179
85°	43	47	50	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: P893394

CATALOG NUMBER: 4MB-3SL-FLT-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	967.3	965.9	967.3	966.6	973.7	982.2	980.8	974.4	967.3	969.4	975.1
5°	963.0	962.3	964.4	963.0	970.1	979.4	976.5	970.8	964.4	966.6	972.3
7.5°	955.9	955.9	958.8	957.3	963.7	973.0	970.1	965.2	958.8	960.9	966.6
10°	946.0	946.7	950.2	948.1	953.8	963.7	960.9	955.9	950.2	951.7	957.3
12.5°	934.6	934.6	938.9	936.7	942.4	951.7	948.1	944.6	938.9	940.3	946.7
15°	919.7	920.4	925.4	923.2	928.2	937.5	933.9	931.1	926.1	926.8	931.8
17.5°	902.7	904.8	909.8	907.6	912.6	921.8	917.6	914.7	910.5	911.2	916.1
20°	884.2	886.3	891.3	889.9	893.4	902.7	898.4	897.0	892.7	893.4	897.7
22.5°	863.6	865.7	871.4	870.0	873.5	882.8	877.8	877.1	872.8	873.5	877.1
25°	840.2	843.0	849.4	848.0	850.8	859.3	855.1	853.7	850.8	850.8	853.7
27.5°	816.0	818.9	826.0	823.8	826.0	835.2	830.2	829.5	826.7	826.7	829.5
30°	789.7	792.6	800.4	798.3	800.4	808.2	803.2	803.9	801.1	801.1	803.2
32.5°	762.0	764.2	772.7	771.3	772.7	780.5	775.5	776.2	773.4	774.1	774.8
35°	732.9	735.0	744.3	742.9	743.6	750.7	747.1	747.1	745.0	744.3	745.7
37.5°	703.1	705.2	716.6	713.0	713.0	720.1	717.3	717.3	715.2	714.5	715.2
40°	672.6	674.0	686.0	682.5	681.8	688.2	686.0	686.0	684.6	683.2	683.9
42.5°	640.6	642.7	654.8	652.0	649.1	656.2	654.1	654.8	652.7	651.2	651.2
45°	607.2	609.3	621.4	620.0	615.7	622.1	620.0	621.4	618.6	617.2	617.2
47.5°	573.8	576.7	588.0	585.9	581.6	588.0	585.9	587.3	584.5	583.1	583.1
50°	539.0	541.9	553.9	550.4	546.1	552.5	551.1	551.8	549.7	548.3	547.6
52.5°	503.5	507.1	518.4	514.2	510.6	516.3	515.6	516.3	513.5	512.8	512.0
55°	468.0	471.6	482.2	477.2	474.4	479.4	478.0	479.4	476.5	475.8	475.1
57.5°	431.1	434.6	444.6	439.6	437.5	441.7	441.0	441.7	439.6	438.9	438.2
60°	394.9	397.7	406.9	402.0	399.8	404.1	402.7	404.8	402.0	402.0	401.3
62.5°	356.5	360.1	369.3	363.6	362.2	365.7	364.3	366.5	365.0	363.6	362.9
65°	318.9	321.0	329.5	324.6	322.4	326.7	326.0	327.4	325.3	326.0	325.3
67.5°	281.2	282.7	291.2	285.5	284.1	288.3	289.0	288.3	286.9	287.6	286.9
70°	242.9	244.3	251.4	246.4	245.7	249.3	250.7	250.0	248.6	249.3	250.0
72.5°	206.0	206.7	213.1	208.8	208.1	212.3	212.3	212.3	212.3	212.3	213.8
75°	169.0	169.7	175.4	171.9	171.2	175.4	175.4	175.4	175.4	176.8	176.1
77.5°	133.5	132.8	138.5	136.4	134.9	139.2	139.2	139.9	141.3	142.7	140.6
80°	100.1	99.4	103.7	100.8	100.8	105.1	104.4	105.1	106.5	107.2	107.9
82.5°	70.3	68.9	72.4	71.7	71.0	74.6	75.3	74.6	76.7	77.4	77.4
85°	43.3	43.3	45.5	44.0	44.0	46.9	46.9	47.6	49.0	49.7	49.7
87.5°	20.6	19.9	22.0	21.3	20.6	22.7	22.7	23.4	24.1	24.9	24.1
90°	0.7	0.7	1.4	1.4	1.4	2.8	2.8	2.8	3.6	3.6	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



TEST NUMBER: P893394
 CATALOG NUMBER: 4MB-3SL-FLT-UNV-L835

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



TEST NUMBER: P893394
 CATALOG NUMBER: 4MB-3SL-FLT-UNV-L835

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	966.6	961.6	959.5	960.9	970.8	960.9	971.5	975.1	962.3	969.4
5°	963.7	958.8	955.9	957.3	967.3	958.0	969.4	973.7	963.0	970.1
7.5°	958.0	952.4	950.9	953.1	961.6	953.8	965.2	969.4	958.8	965.9
10°	949.5	944.6	943.1	945.3	953.1	945.3	955.2	958.8	948.8	955.2
12.5°	938.9	933.9	932.5	935.3	942.4	935.3	945.3	948.8	938.9	945.3
15°	925.4	920.4	919.7	924.0	930.4	924.0	933.9	936.7	926.8	933.2
17.5°	909.0	904.1	904.8	909.8	914.7	909.0	918.3	921.1	911.9	916.9
20°	891.3	885.6	887.0	891.3	895.6	889.9	899.1	901.9	893.4	898.4
22.5°	870.7	865.0	866.4	871.4	874.2	869.3	877.8	880.6	873.5	878.5
25°	848.0	843.0	845.1	850.1	852.2	848.0	855.8	857.9	851.5	855.8
27.5°	825.2	819.6	822.4	827.4	828.8	824.5	832.3	833.8	827.4	831.6
30°	799.7	794.0	797.5	803.2	803.2	800.4	806.8	808.2	803.2	806.8
32.5°	771.3	767.0	771.3	776.2	775.5	773.4	779.8	781.2	776.9	779.8
35°	742.9	739.3	743.6	748.5	747.8	745.7	752.1	752.8	749.3	752.1
37.5°	713.7	710.9	715.2	719.4	718.0	716.6	722.3	722.3	720.1	723.0
40°	683.9	681.1	684.6	689.6	686.8	686.8	690.3	691.7	689.6	692.4
42.5°	652.7	649.8	654.1	658.3	655.5	654.8	659.1	659.8	658.3	660.5
45°	620.0	617.2	621.4	625.0	622.1	622.1	625.7	625.7	625.0	627.8
47.5°	586.6	584.5	588.0	591.6	588.7	590.9	590.9	590.9	592.3	591.6
50°	552.5	550.4	553.2	557.5	553.9	554.7	556.1	556.1	556.8	557.5
52.5°	517.0	514.2	517.0	522.0	517.0	519.2	519.9	520.6	522.7	521.3
55°	481.5	478.7	481.5	485.8	480.8	483.6	483.6	484.4	486.5	485.1
57.5°	444.6	441.7	446.0	448.8	443.9	446.7	446.7	448.1	449.6	447.4
60°	407.7	405.5	406.9	411.9	406.9	409.8	409.8	409.8	412.6	410.5
62.5°	370.0	368.6	370.0	374.3	369.3	372.1	371.4	372.1	375.0	374.3
65°	331.7	330.2	331.7	335.9	330.9	333.8	333.8	334.5	336.6	333.8
67.5°	294.0	291.9	294.0	297.6	293.3	295.4	295.4	295.4	299.0	297.6
70°	255.7	254.2	255.7	259.2	255.7	257.1	257.1	257.1	260.6	261.4
72.5°	218.0	218.0	219.4	222.3	219.4	222.3	220.2	218.7	223.7	224.4
75°	181.1	181.8	182.5	185.4	182.5	185.4	183.9	182.5	186.8	187.5
77.5°	147.0	147.0	147.7	149.9	147.7	149.9	148.4	148.4	151.3	150.6
80°	112.2	112.2	112.9	115.1	112.9	115.1	113.6	113.6	116.5	113.6
82.5°	81.7	81.7	81.7	83.8	82.4	83.8	83.1	81.7	85.2	82.4
85°	52.6	53.3	53.3	54.0	53.3	54.0	54.0	53.3	55.4	53.3
87.5°	27.0	27.0	27.0	27.7	27.0	27.0	27.7	27.0	28.4	27.7
90°	5.0	4.3	4.3	5.7	5.0	5.0	5.7	4.3	5.0	4.3
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: P893394
 CATALOG NUMBER: 4MB-3SL-FLT-UNV-L835

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



TEST NUMBER: P893394
 CATALOG NUMBER: 4MB-3SL-FLT-UNV-L835

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	18.22	19.86	18.59	20.17	20.49	18.35	19.99	18.72	20.31	20.62
	3H	20.04	21.52	20.42	21.85	22.21	20.19	21.67	20.57	22.00	22.36
	4H	20.70	22.10	21.10	22.45	22.83	20.89	22.29	21.29	22.64	23.02
	6H	21.16	22.45	21.57	22.82	23.21	21.45	22.75	21.86	23.11	23.51
	8H	21.29	22.53	21.72	22.92	23.32	21.65	22.88	22.07	23.27	23.68
	12H	21.39	22.58	21.82	22.96	23.39	21.79	22.97	22.22	23.36	23.79
4H	2H	18.85	20.25	19.25	20.60	20.98	18.96	20.36	19.36	20.71	21.08
	3H	20.89	22.07	21.30	22.46	22.87	21.03	22.20	21.44	22.60	23.00
	4H	21.69	22.75	22.12	23.16	23.60	21.87	22.93	22.31	23.35	23.79
	6H	22.26	23.19	22.72	23.63	24.09	22.56	23.49	23.02	23.94	24.39
	8H	22.45	23.32	22.91	23.77	24.23	22.81	23.68	23.27	24.12	24.59
	12H	22.60	23.38	23.08	23.85	24.33	23.00	23.79	23.49	24.26	24.73
8H	4H	22.02	22.89	22.48	23.33	23.80	22.18	23.05	22.64	23.49	23.96
	6H	22.72	23.44	23.21	23.93	24.41	23.01	23.73	23.50	24.22	24.70
	8H	22.98	23.63	23.49	24.14	24.63	23.34	23.99	23.85	24.50	24.98
	12H	23.20	23.77	23.71	24.27	24.83	23.62	24.20	24.13	24.69	25.25
12H	4H	22.06	22.84	22.54	23.32	23.79	22.21	23.00	22.70	23.47	23.94
	6H	22.79	23.44	23.30	23.95	24.44	23.06	23.72	23.57	24.22	24.71
	8H	23.12	23.69	23.62	24.18	24.74	23.46	24.03	23.97	24.53	25.09