

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: P893400

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893400
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-L950
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

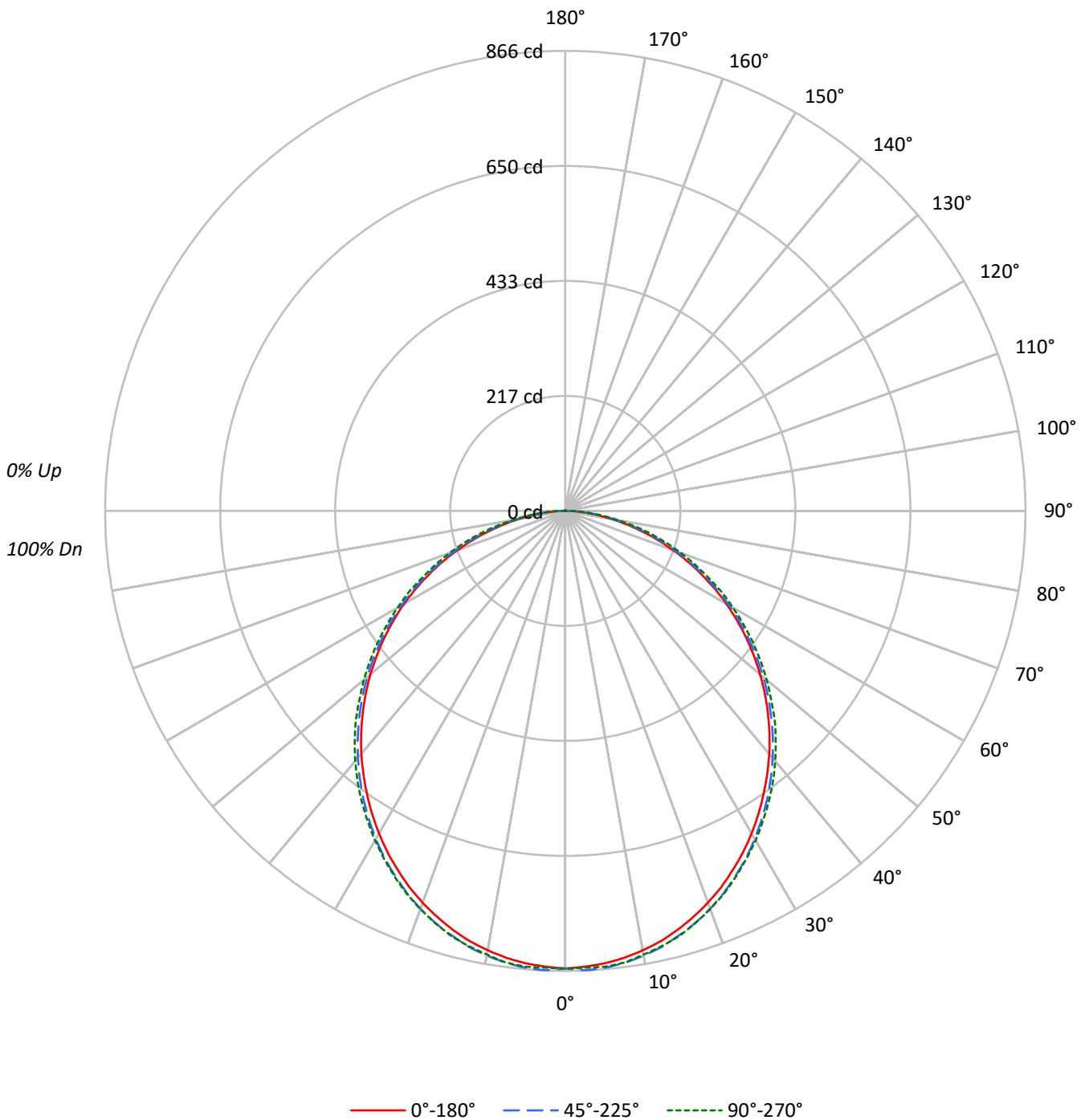
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2390.9 lumens
Efficiency: N/A
Efficacy: 113.3 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: P893400
CATALOG NUMBER: 4MB-3SL-FLT-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83	83	83	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69	69	69	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58	58	58	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50	50	50	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43	43	43	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38	38	38	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33	33	33	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30	30	30	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27	27	27	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6128	6128	6128
5°	6107	6165	6152
10°	6068	6141	6127
15°	6015	6094	6103
20°	5944	6035	6039
25°	5856	5950	5965
30°	5761	5859	5885
35°	5652	5751	5800
40°	5546	5640	5710
45°	5424	5513	5609
50°	5298	5382	5479
55°	5154	5232	5343
60°	4989	5070	5187
65°	4766	4862	4990
70°	4485	4618	4826
75°	4126	4299	4577
80°	3643	3925	4134
85°	3143	3600	3861

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5609 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.4
10°-20°	232.1	9.7
20°-30°	347.9	14.6
30°-40°	413.9	17.3
40°-50°	424.7	17.8
50°-60°	380.5	15.9
60°-70°	289.1	12.1
70°-80°	168.0	7.0
80°-90°	50.4	2.1
90°-100°	1.2	0.0
100°-110°	0.2	0.0
110°-120°	0.0	0.0
120°-130°	0.1	0.0
130°-140°	0.2	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°	661.5	27.7
0°-40°	1075.4	45.0
0°-60°	1880.7	78.7
0°-90°	2388.3	99.9
90°-120°	1.4	0.1
90°-150°	2.1	0.1
90°-180°	3.0	0.1
0°-180°	2390.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	855	870	863	859	861	81
15°	817	832	827	826	828	230
25°	746	763	758	757	760	344
35°	651	666	662	664	668	407
45°	539	552	548	552	557	416
55°	416	426	422	427	431	371
65°	283	290	289	294	296	280
75°	150	156	156	162	166	159
85°	38	42	44	47	47	42
90°	1	2	2	4	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: P893400
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3
2.5°	858.8	857.5	858.8	858.2	864.5	872.0	870.8	865.1	858.8	860.7	865.7
5°	855.0	854.4	856.3	855.0	861.3	869.5	867.0	862.0	856.3	858.2	863.2
7.5°	848.7	848.7	851.2	850.0	855.7	863.9	861.3	856.9	851.2	853.1	858.2
10°	839.9	840.5	843.7	841.8	846.8	855.7	853.1	848.7	843.7	844.9	850.0
12.5°	829.8	829.8	833.6	831.7	836.7	844.9	841.8	838.6	833.6	834.8	840.5
15°	816.6	817.2	821.6	819.7	824.1	832.3	829.2	826.6	822.2	822.9	827.3
17.5°	801.4	803.3	807.7	805.8	810.3	818.5	814.7	812.1	808.4	809.0	813.4
20°	785.0	786.9	791.3	790.1	793.2	801.4	797.6	796.4	792.6	793.2	797.0
22.5°	766.7	768.6	773.7	772.4	775.6	783.8	779.4	778.7	774.9	775.6	778.7
25°	745.9	748.5	754.1	752.9	755.4	763.0	759.2	757.9	755.4	755.4	757.9
27.5°	724.5	727.0	733.3	731.4	733.3	741.5	737.1	736.5	734.0	734.0	736.5
30°	701.2	703.7	710.6	708.7	710.6	717.6	713.2	713.8	711.3	711.3	713.2
32.5°	676.6	678.5	686.0	684.8	686.0	693.0	688.6	689.2	686.7	687.3	687.9
35°	650.7	652.6	660.8	659.6	660.2	666.5	663.3	663.3	661.4	660.8	662.1
37.5°	624.2	626.1	636.2	633.1	633.1	639.4	636.9	636.9	635.0	634.3	635.0
40°	597.1	598.4	609.1	606.0	605.3	611.0	609.1	609.1	607.8	606.6	607.2
42.5°	568.8	570.6	581.4	578.8	576.3	582.6	580.7	581.4	579.5	578.2	578.2
45°	539.1	541.0	551.7	550.5	546.7	552.4	550.5	551.7	549.2	547.9	547.9
47.5°	509.5	512.0	522.1	520.2	516.4	522.1	520.2	521.5	518.9	517.7	517.7
50°	478.6	481.1	491.8	488.7	484.9	490.6	489.3	489.9	488.0	486.8	486.2
52.5°	447.1	450.2	460.3	456.5	453.4	458.4	457.8	458.4	455.9	455.3	454.6
55°	415.5	418.7	428.1	423.7	421.2	425.6	424.4	425.6	423.1	422.5	421.8
57.5°	382.7	385.9	394.7	390.3	388.4	392.2	391.6	392.2	390.3	389.7	389.0
60°	350.6	353.1	361.3	356.9	355.0	358.8	357.5	359.4	356.9	356.9	356.3
62.5°	316.5	319.7	327.9	322.8	321.6	324.7	323.5	325.4	324.1	322.8	322.2
65°	283.1	285.0	292.6	288.2	286.3	290.1	289.4	290.7	288.8	289.4	288.8
67.5°	249.7	251.0	258.5	253.5	252.2	256.0	256.6	256.0	254.7	255.4	254.7
70°	215.6	216.9	223.2	218.8	218.2	221.3	222.6	222.0	220.7	221.3	222.0
72.5°	182.9	183.5	189.2	185.4	184.8	188.5	188.5	188.5	188.5	188.5	189.8
75°	150.1	150.7	155.7	152.6	152.0	155.7	155.7	155.7	155.7	157.0	156.4
77.5°	118.5	117.9	123.0	121.1	119.8	123.6	123.6	124.2	125.5	126.7	124.8
80°	88.9	88.3	92.1	89.5	89.5	93.3	92.7	93.3	94.6	95.2	95.8
82.5°	62.4	61.2	64.3	63.7	63.1	66.2	66.8	66.2	68.1	68.7	68.7
85°	38.5	38.5	40.4	39.1	39.1	41.6	41.6	42.2	43.5	44.1	44.1
87.5°	18.3	17.7	19.5	18.9	18.3	20.2	20.2	20.8	21.4	22.1	21.4
90°	0.6	0.6	1.3	1.3	1.3	2.5	2.5	2.5	3.2	3.2	2.5
92.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3	1.3
95°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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	0.6



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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	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.6
132.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
135°	0.0	0.6	0.6	0.6	0.6	0.0	0.6	0.0	0.0	0.0	0.6
137.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
147.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
152.5°	0.6	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	0.6
157.5°	0.6	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	0.6
162.5°	0.6	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	0.6
167.5°	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6
170°	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6
172.5°	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6
175°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.6	1.3	1.3
177.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3
2.5°	858.2	853.8	851.9	853.1	862.0	853.1	862.6	865.7	854.4	860.7
5°	855.7	851.2	848.7	850.0	858.8	850.6	860.7	864.5	855.0	861.3
7.5°	850.6	845.6	844.3	846.2	853.8	846.8	856.9	860.7	851.2	857.5
10°	843.0	838.6	837.4	839.3	846.2	839.3	848.1	851.2	842.4	848.1
12.5°	833.6	829.2	827.9	830.4	836.7	830.4	839.3	842.4	833.6	839.3
15°	821.6	817.2	816.6	820.3	826.0	820.3	829.2	831.7	822.9	828.5
17.5°	807.1	802.7	803.3	807.7	812.1	807.1	815.3	817.8	809.6	814.0
20°	791.3	786.3	787.6	791.3	795.1	790.1	798.3	800.8	793.2	797.6
22.5°	773.1	768.0	769.3	773.7	776.2	771.8	779.4	781.9	775.6	780.0
25°	752.9	748.5	750.4	754.8	756.7	752.9	759.8	761.7	756.0	759.8
27.5°	732.7	727.7	730.2	734.6	735.9	732.1	739.0	740.3	734.6	738.4
30°	710.0	705.0	708.1	713.2	713.2	710.6	716.3	717.6	713.2	716.3
32.5°	684.8	681.0	684.8	689.2	688.6	686.7	692.3	693.6	689.8	692.3
35°	659.6	656.4	660.2	664.6	664.0	662.1	667.8	668.4	665.2	667.8
37.5°	633.7	631.2	635.0	638.7	637.5	636.2	641.3	641.3	639.4	641.9
40°	607.2	604.7	607.8	612.3	609.7	609.7	612.9	614.2	612.3	614.8
42.5°	579.5	577.0	580.7	584.5	582.0	581.4	585.1	585.8	584.5	586.4
45°	550.5	547.9	551.7	554.9	552.4	552.4	555.5	555.5	554.9	557.4
47.5°	520.8	518.9	522.1	525.2	522.7	524.6	524.6	524.6	525.9	525.2
50°	490.6	488.7	491.2	495.0	491.8	492.5	493.7	493.7	494.4	495.0
52.5°	459.0	456.5	459.0	463.5	459.0	460.9	461.6	462.2	464.1	462.8
55°	427.5	425.0	427.5	431.3	426.9	429.4	429.4	430.0	431.9	430.7
57.5°	394.7	392.2	396.0	398.5	394.1	396.6	396.6	397.9	399.1	397.2
60°	361.9	360.0	361.3	365.7	361.3	363.8	363.8	363.8	366.3	364.5
62.5°	328.5	327.3	328.5	332.3	327.9	330.4	329.8	330.4	332.9	332.3
65°	294.5	293.2	294.5	298.2	293.8	296.4	296.4	297.0	298.9	296.4
67.5°	261.0	259.2	261.0	264.2	260.4	262.3	262.3	262.3	265.5	264.2
70°	227.0	225.7	227.0	230.2	227.0	228.3	228.3	228.3	231.4	232.0
72.5°	193.6	193.6	194.8	197.4	194.8	197.4	195.5	194.2	198.6	199.3
75°	160.8	161.4	162.1	164.6	162.1	164.6	163.3	162.1	165.8	166.5
77.5°	130.5	130.5	131.2	133.0	131.2	133.0	131.8	131.8	134.3	133.7
80°	99.6	99.6	100.3	102.1	100.3	102.1	100.9	100.9	103.4	100.9
82.5°	72.5	72.5	72.5	74.4	73.1	74.4	73.8	72.5	75.7	73.1
85°	46.7	47.3	47.3	47.9	47.3	47.9	47.9	47.3	49.2	47.3
87.5°	24.0	24.0	24.0	24.6	24.0	24.0	24.6	24.0	25.2	24.6
90°	4.4	3.8	3.8	5.0	4.4	4.4	5.0	3.8	4.4	3.8
92.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5
95°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9
97.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
100°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
102.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
105°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.6	0.6
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	0.6	0.0	0.0	0.0	0.6



TEST NUMBER: P893400
 CATALOG NUMBER: 4MB-3SL-FLT-UNV-L950

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	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.6	0.6	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°	0.6	0.6	0.6	0.6	0.0	0.6	0.0	0.0	0.0	0.0
140°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
145°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
147.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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	0.6
177.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



TEST NUMBER: P893400
 CATALOG NUMBER: 4MB-3SL-FLT-UNV-L950

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	17.81	19.44	18.17	19.76	20.08	17.94	19.58	18.31	19.89	20.21
	3H	19.63	21.11	20.01	21.44	21.80	19.77	21.26	20.15	21.58	21.95
	4H	20.29	21.68	20.69	22.03	22.41	20.48	21.88	20.88	22.23	22.61
	6H	20.74	22.04	21.15	22.40	22.80	21.04	22.33	21.45	22.70	23.09
	8H	20.88	22.12	21.31	22.51	22.91	21.23	22.47	21.66	22.86	23.26
	12H	20.98	22.16	21.41	22.55	22.98	21.38	22.56	21.81	22.95	23.38
4H	2H	18.44	19.84	18.84	20.19	20.56	18.55	19.94	18.95	20.29	20.67
	3H	20.48	21.65	20.89	22.05	22.45	20.61	21.79	21.03	22.19	22.59
	4H	21.27	22.33	21.71	22.75	23.19	21.46	22.52	21.89	22.94	23.37
	6H	21.85	22.78	22.30	23.22	23.68	22.15	23.08	22.61	23.52	23.98
	8H	22.04	22.91	22.50	23.35	23.82	22.40	23.27	22.86	23.71	24.18
	12H	22.18	22.96	22.66	23.44	23.91	22.59	23.37	23.07	23.85	24.32
8H	4H	21.60	22.47	22.06	22.92	23.38	21.77	22.64	22.23	23.08	23.55
	6H	22.31	23.03	22.80	23.52	24.00	22.59	23.32	23.09	23.81	24.29
	8H	22.57	23.22	23.08	23.73	24.21	22.93	23.58	23.44	24.08	24.57
	12H	22.79	23.36	23.29	23.85	24.41	23.21	23.78	23.72	24.28	24.84
12H	4H	21.65	22.43	22.13	22.91	23.38	21.80	22.58	22.28	23.06	23.53
	6H	22.38	23.03	22.89	23.53	24.02	22.65	23.30	23.16	23.81	24.30
	8H	22.70	23.28	23.21	23.77	24.33	23.05	23.62	23.55	24.11	24.67