

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: P893446

Luminaire Tested: 4MB-3SL-RND-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893446
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-L935
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

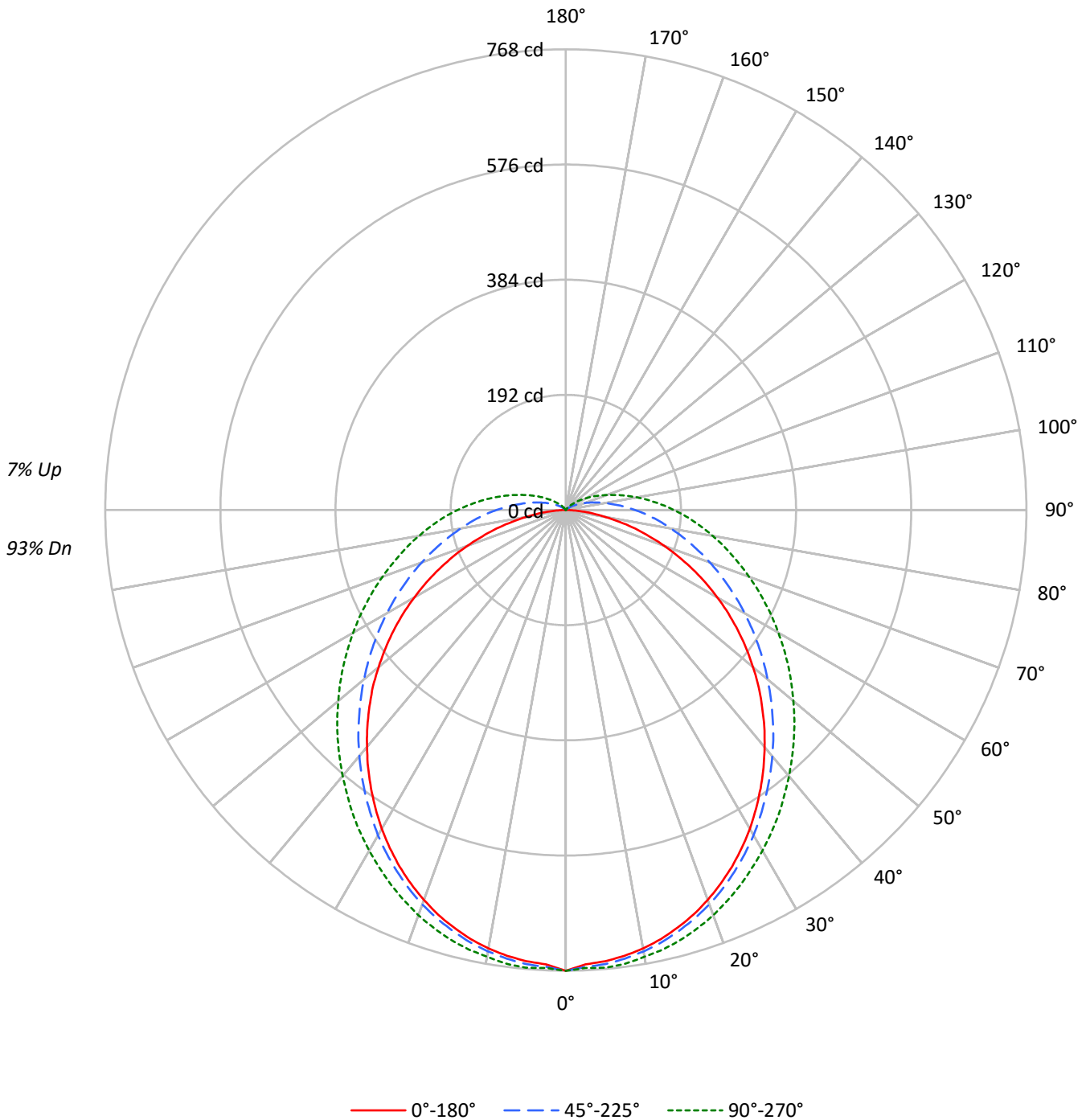
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2543.0 lumens
Efficiency: N/A
Efficacy: 120.5 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

TEST NUMBER: P893446
CATALOG NUMBER: 4MB-3SL-RND-UNV-L935

Luminous Intensity Polar Plot





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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	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°	5466	5466	5466
5°	5392	5427	5469
10°	5363	5398	5463
15°	5309	5353	5463
20°	5238	5298	5443
25°	5148	5224	5412
30°	5042	5145	5388
35°	4918	5053	5377
40°	4790	4975	5376
45°	4657	4905	5413
50°	4511	4864	5482
55°	4347	4854	5614
60°	4157	4901	5824
65°	3926	5029	6174
70°	3638	5315	6765
75°	3288	5916	7848
80°	2782	7289	10194
85°	2253	11878	17470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 32166 cd/sqm



TEST NUMBER: P893446
 CATALOG NUMBER: 4MB-3SL-RND-UNV-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	2.9
10°-20°	207.0	8.1
20°-30°	309.9	12.2
30°-40°	369.6	14.5
40°-50°	383.3	15.1
50°-60°	355.6	14.0
60°-70°	296.6	11.7
70°-80°	221.2	8.7
80°-90°	147.3	5.8
90°-100°	89.7	3.5
100°-110°	50.1	2.0
110°-120°	25.0	1.0
120°-130°	10.4	0.4
130°-140°	3.3	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°	589.6	23.2
0°-40°	959.1	37.7
0°-60°	1698.0	66.8
0°-90°	2363.0	92.9
90°-120°	164.7	6.5
90°-150°	179.3	7.0
90°-180°	180.0	7.1
0°-180°	2543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	755	772	760	764	766	72
15°	721	739	727	740	742	203
25°	656	673	665	684	689	302
35°	566	581	582	611	619	354
45°	463	475	488	526	538	357
55°	350	362	391	437	453	313
65°	233	252	299	349	367	231
75°	120	153	215	268	286	126
85°	28	76	146	195	214	31
90°	1	50	115	163	180	2
95°	0	31	89	133	149	0
105°	0	10	49	82	95	0
115°	1	2	23	46	55	1
125°	1	1	9	22	28	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	



TEST NUMBER: P893446

CATALOG NUMBER: 4MB-3SL-RND-UNV-L935

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2
2.5°	758.0	759.2	770.0	769.4	767.6	774.8	776.6	770.6	761.0	770.6	762.2
5°	755.0	756.2	767.0	766.4	764.6	772.4	773.0	767.6	758.0	767.6	759.8
7.5°	749.5	750.7	761.6	761.0	759.8	767.6	767.0	762.8	752.5	762.8	754.3
10°	742.3	742.9	754.3	753.1	752.5	760.4	758.6	755.0	744.7	755.0	747.1
12.5°	732.7	733.3	744.7	743.5	743.5	750.7	748.3	745.3	735.1	744.7	738.1
15°	720.7	721.3	732.1	731.5	731.5	739.3	735.7	733.3	723.7	733.9	726.7
17.5°	707.5	706.9	718.3	717.1	718.3	725.5	720.7	719.5	710.5	720.1	714.1
20°	691.8	691.8	702.1	701.5	703.3	709.9	703.9	704.5	695.4	705.7	699.7
22.5°	674.4	673.8	684.0	684.0	685.8	692.4	685.8	687.6	678.6	688.2	683.4
25°	655.8	654.6	664.8	664.8	667.8	673.2	666.0	668.4	660.0	669.6	665.4
27.5°	635.3	633.5	643.8	644.4	646.8	652.2	644.4	648.0	640.1	649.2	646.2
30°	613.7	611.9	622.1	622.7	625.7	629.9	622.1	626.9	619.7	628.7	626.3
32.5°	590.3	589.1	598.7	599.9	602.9	605.9	598.7	603.5	597.5	606.5	604.1
35°	566.2	565.0	574.0	575.8	578.8	581.2	573.4	580.0	574.6	583.0	581.8
37.5°	541.6	539.8	549.4	550.6	554.2	555.4	548.2	556.0	551.2	559.6	559.0
40°	515.7	513.9	523.5	524.7	528.3	528.3	522.3	530.7	527.1	535.0	535.6
42.5°	489.9	488.1	496.5	498.9	501.9	501.9	495.9	504.9	502.5	510.3	512.1
45°	462.8	461.0	468.8	471.2	474.8	474.8	468.8	479.1	477.3	485.1	487.5
47.5°	436.4	434.0	441.2	443.6	447.2	446.6	441.8	452.0	451.4	459.2	463.4
50°	407.5	405.7	412.9	415.3	419.6	418.3	414.7	425.6	425.6	433.4	439.4
52.5°	379.3	377.5	384.7	387.1	390.7	390.7	387.1	398.5	400.3	408.1	415.3
55°	350.4	348.0	355.2	357.6	361.8	362.4	359.4	370.9	374.5	383.5	391.3
57.5°	321.6	320.4	326.4	328.8	334.2	334.2	332.4	344.4	349.2	358.8	367.9
60°	292.1	290.9	296.3	299.3	305.3	306.5	305.3	318.0	324.6	334.2	344.4
62.5°	262.7	261.5	266.9	271.1	277.7	278.9	279.5	292.7	299.9	310.2	321.6
65°	233.2	232.0	237.4	242.2	250.0	251.9	253.7	267.5	275.9	286.7	298.7
67.5°	203.8	203.2	208.6	214.6	223.0	225.4	228.4	242.8	252.5	263.9	277.1
70°	174.9	174.3	179.7	186.9	197.2	200.2	203.8	218.2	230.2	242.2	255.5
72.5°	146.1	146.7	152.7	161.1	172.5	175.5	180.3	195.3	208.6	221.2	235.0
75°	119.6	119.6	126.2	135.8	148.5	152.7	158.1	173.7	187.5	200.8	215.2
77.5°	92.6	92.6	100.4	112.4	126.2	130.4	137.0	153.3	168.3	181.5	196.0
80°	67.9	69.1	78.1	90.2	104.6	110.0	117.8	134.0	150.3	163.5	177.9
82.5°	46.3	48.1	57.7	71.5	86.0	91.4	99.2	116.6	132.8	146.7	161.7
85°	27.6	30.7	40.9	54.7	69.7	75.7	84.2	100.4	116.6	130.4	145.5
87.5°	12.6	16.8	27.6	41.5	55.9	62.5	69.7	85.4	101.6	115.4	131.0
90°	1.2	7.2	18.0	30.1	43.9	49.9	57.1	72.1	87.8	100.4	115.4
92.5°	0.0	3.0	10.8	21.6	33.7	39.7	46.3	60.7	74.5	87.2	101.6
95°	0.0	1.2	6.0	15.0	25.2	30.7	36.7	49.9	63.7	75.7	89.0
97.5°	0.0	0.6	3.6	10.2	18.6	23.4	28.9	40.9	53.5	64.9	76.9
100°	0.0	0.6	1.8	6.6	13.8	17.4	22.8	33.1	44.5	54.7	66.7
102.5°	0.0	0.0	1.2	4.2	10.2	13.2	17.4	26.4	36.7	46.3	57.1
105°	0.0	0.0	0.6	3.0	7.2	9.6	13.2	21.0	30.1	38.5	48.7
107.5°	0.0	0.0	0.6	1.8	4.8	7.2	10.2	16.2	24.0	31.9	40.9
110°	0.6	0.6	0.6	1.2	3.6	5.4	7.2	12.6	19.8	26.4	34.3



TEST NUMBER: P893446

CATALOG NUMBER: 4MB-3SL-RND-UNV-L935

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	5.4	9.6	15.6	21.0	28.3
115°	0.6	0.6	0.6	0.6	1.8	2.4	3.6	7.2	12.0	16.8	22.8
117.5°	0.6	0.6	0.6	0.6	1.2	1.8	2.4	5.4	9.0	13.2	18.6
120°	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.6	7.2	10.2	15.0
122.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	3.0	5.4	7.8	11.4
125°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.6	6.0	9.0
127.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	2.4	4.2	6.6
130°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.0	4.8
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



TEST NUMBER: P893446

CATALOG NUMBER: 4MB-3SL-RND-UNV-L935

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2
2.5°	764.6	766.4	768.2	763.4	766.4	771.8	773.6	766.4	768.8	764.0
5°	762.2	763.4	765.8	759.8	764.0	768.8	771.8	765.8	769.4	765.8
7.5°	757.4	758.6	761.6	755.6	761.0	765.2	768.8	762.8	766.4	762.8
10°	750.1	751.9	756.2	748.9	755.6	759.2	762.8	756.2	759.8	756.2
12.5°	741.1	744.1	747.7	741.1	747.7	750.7	755.6	748.9	753.1	750.1
15°	730.3	733.3	738.1	731.5	739.9	742.3	747.1	740.5	744.7	741.7
17.5°	717.7	721.3	727.3	719.5	729.1	730.9	735.7	729.7	733.9	730.9
20°	703.3	706.9	712.9	705.7	715.3	716.5	721.9	716.5	720.7	718.9
22.5°	686.4	690.6	696.6	690.0	700.3	700.3	706.9	701.5	706.3	704.5
25°	669.0	673.8	680.4	673.2	684.0	684.0	691.2	685.8	690.6	689.4
27.5°	650.4	655.8	663.6	656.4	667.2	666.6	673.8	669.0	674.4	672.6
30°	630.5	636.5	644.4	638.3	649.8	648.6	655.8	651.6	656.4	655.8
32.5°	608.9	615.5	625.1	618.5	629.9	628.7	637.7	632.9	638.9	637.7
35°	587.3	594.5	604.1	598.1	610.7	608.9	617.9	613.7	619.7	619.1
37.5°	565.0	572.8	582.4	577.6	589.7	587.9	597.5	593.9	600.5	598.7
40°	542.2	550.0	560.2	556.0	568.6	566.2	576.4	573.4	580.0	578.8
42.5°	519.3	527.7	538.0	535.6	547.6	545.2	555.4	553.0	559.6	558.4
45°	495.9	504.9	515.7	513.3	525.9	523.5	533.8	532.0	538.6	538.0
47.5°	472.4	482.1	492.9	491.7	503.7	501.3	512.1	510.3	516.9	516.9
50°	448.4	459.2	470.0	469.4	481.5	479.1	488.7	488.7	495.9	495.3
52.5°	424.4	435.8	447.2	447.2	459.2	456.8	467.6	467.0	474.2	474.2
55°	401.5	411.7	423.2	425.6	437.0	433.4	444.8	446.0	452.0	452.6
57.5°	378.7	389.5	400.9	403.9	414.7	412.3	423.2	424.4	430.4	431.0
60°	355.8	366.1	377.5	381.7	392.5	390.1	400.9	402.1	408.7	409.3
62.5°	333.0	343.2	355.8	360.0	370.3	368.5	379.9	381.1	387.1	388.3
65°	310.8	321.6	333.6	339.6	349.2	346.8	358.2	359.4	366.1	366.7
67.5°	289.1	299.9	312.0	318.6	327.6	326.4	337.2	339.6	345.0	346.2
70°	268.1	278.9	291.5	298.1	307.1	306.5	316.8	318.6	324.6	325.2
72.5°	247.6	258.5	271.1	278.9	286.7	286.1	296.3	298.7	304.7	305.3
75°	227.8	239.2	251.2	259.7	267.5	266.9	277.1	279.5	284.9	285.5
77.5°	209.2	220.6	233.2	241.6	248.2	248.8	257.9	260.3	265.7	267.5
80°	191.7	202.6	214.6	223.6	229.6	230.8	239.2	242.2	246.4	248.8
82.5°	174.9	185.7	197.8	206.2	212.2	213.4	221.2	224.8	229.0	230.8
85°	158.7	169.5	180.9	189.9	195.3	196.0	203.8	207.4	211.0	214.0
87.5°	143.1	153.9	164.7	174.3	179.1	180.3	187.5	191.1	194.1	197.2
90°	127.4	138.2	149.1	158.1	162.9	163.5	171.3	174.9	177.9	180.3
92.5°	113.0	123.8	134.6	143.7	147.9	149.1	155.7	159.9	162.3	164.7
95°	99.2	110.0	119.6	129.2	133.4	135.2	141.3	144.9	147.9	149.1
97.5°	87.2	96.8	105.8	115.4	119.0	120.8	126.8	131.0	133.4	134.6
100°	75.7	84.8	93.2	102.2	105.8	107.6	113.0	116.6	119.0	120.8
102.5°	65.5	73.9	81.7	90.2	93.8	95.0	99.8	103.4	105.8	107.6
105°	56.5	64.3	71.5	79.3	82.3	84.2	88.4	91.4	93.8	95.0
107.5°	48.1	55.9	61.9	69.1	72.1	73.3	77.5	81.1	82.9	83.5
110°	40.9	47.5	53.5	59.5	63.1	64.3	67.9	70.9	72.7	73.3



TEST NUMBER: P893446
 CATALOG NUMBER: 4MB-3SL-RND-UNV-L935

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	34.3	40.3	45.7	51.1	54.1	55.3	58.9	61.9	63.1	63.7
115°	28.3	34.3	38.5	43.9	46.3	47.5	50.5	53.5	54.1	55.3
117.5°	22.8	28.3	32.5	36.7	39.1	40.3	42.7	45.1	46.3	46.9
120°	18.6	22.8	26.4	30.7	32.5	33.7	36.1	38.5	39.1	39.7
122.5°	15.0	18.6	21.6	25.2	27.0	28.3	30.1	31.9	32.5	33.1
125°	11.4	15.0	17.4	20.4	22.2	22.8	24.6	26.4	27.0	27.6
127.5°	9.0	11.4	13.8	16.2	17.4	18.0	19.8	21.0	21.6	22.2
130°	6.6	8.4	10.2	12.6	13.8	14.4	15.6	16.8	17.4	17.4
132.5°	4.8	6.6	7.8	9.6	10.2	10.8	12.0	13.2	13.2	13.8
135°	3.0	4.2	5.4	6.6	7.8	7.8	9.0	9.6	10.2	10.2
137.5°	2.4	3.0	3.6	4.8	5.4	6.0	6.0	7.2	7.2	7.2
140°	1.8	2.4	2.4	3.0	3.6	4.2	4.2	4.8	4.8	4.8
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



TEST NUMBER: P893446
 CATALOG NUMBER: 4MB-3SL-RND-UNV-L935

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	16.19	17.73	16.66	18.18	18.67	17.76	19.30	18.23	19.75	20.24
	3H	17.87	19.27	18.35	19.74	20.26	20.39	21.79	20.87	22.26	22.78
	4H	18.46	19.79	18.97	20.28	20.82	21.70	23.03	22.20	23.51	24.05
	6H	18.86	20.10	19.38	20.60	21.16	23.10	24.34	23.62	24.84	25.40
	8H	18.98	20.17	19.51	20.69	21.25	23.85	25.04	24.38	25.56	26.12
	12H	19.05	20.19	19.59	20.71	21.30	24.70	25.84	25.24	26.36	26.95
4H	2H	17.12	18.45	17.62	18.93	19.47	18.31	19.64	18.82	20.13	20.67
	3H	19.10	20.23	19.61	20.76	21.32	21.23	22.36	21.74	22.89	23.45
	4H	19.87	20.91	20.41	21.45	22.05	22.75	23.79	23.29	24.33	24.93
	6H	20.45	21.37	21.01	21.94	22.55	24.39	25.32	24.95	25.88	26.49
	8H	20.63	21.50	21.20	22.06	22.69	25.28	26.14	25.84	26.71	27.33
	12H	20.76	21.55	21.34	22.14	22.77	26.28	27.07	26.86	27.66	28.29
8H	4H	20.75	21.62	21.31	22.18	22.80	23.11	23.98	23.67	24.54	25.17
	6H	21.63	22.37	22.23	22.97	23.60	25.01	25.75	25.61	26.36	26.98
	8H	21.98	22.65	22.59	23.26	23.90	26.10	26.76	26.70	27.38	28.02
	12H	22.25	22.85	22.86	23.45	24.16	27.36	27.96	27.97	28.56	29.27
12H	4H	21.03	21.82	21.61	22.41	23.03	23.15	23.94	23.74	24.53	25.16
	6H	22.08	22.75	22.69	23.36	24.00	25.12	25.79	25.73	26.41	27.05
	8H	22.60	23.19	23.21	23.80	24.51	26.32	26.92	26.93	27.52	28.23