

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: P893450

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-3SL-RNDU-UNV-L835
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 5
Light Source: -
Ballast/Driver: -

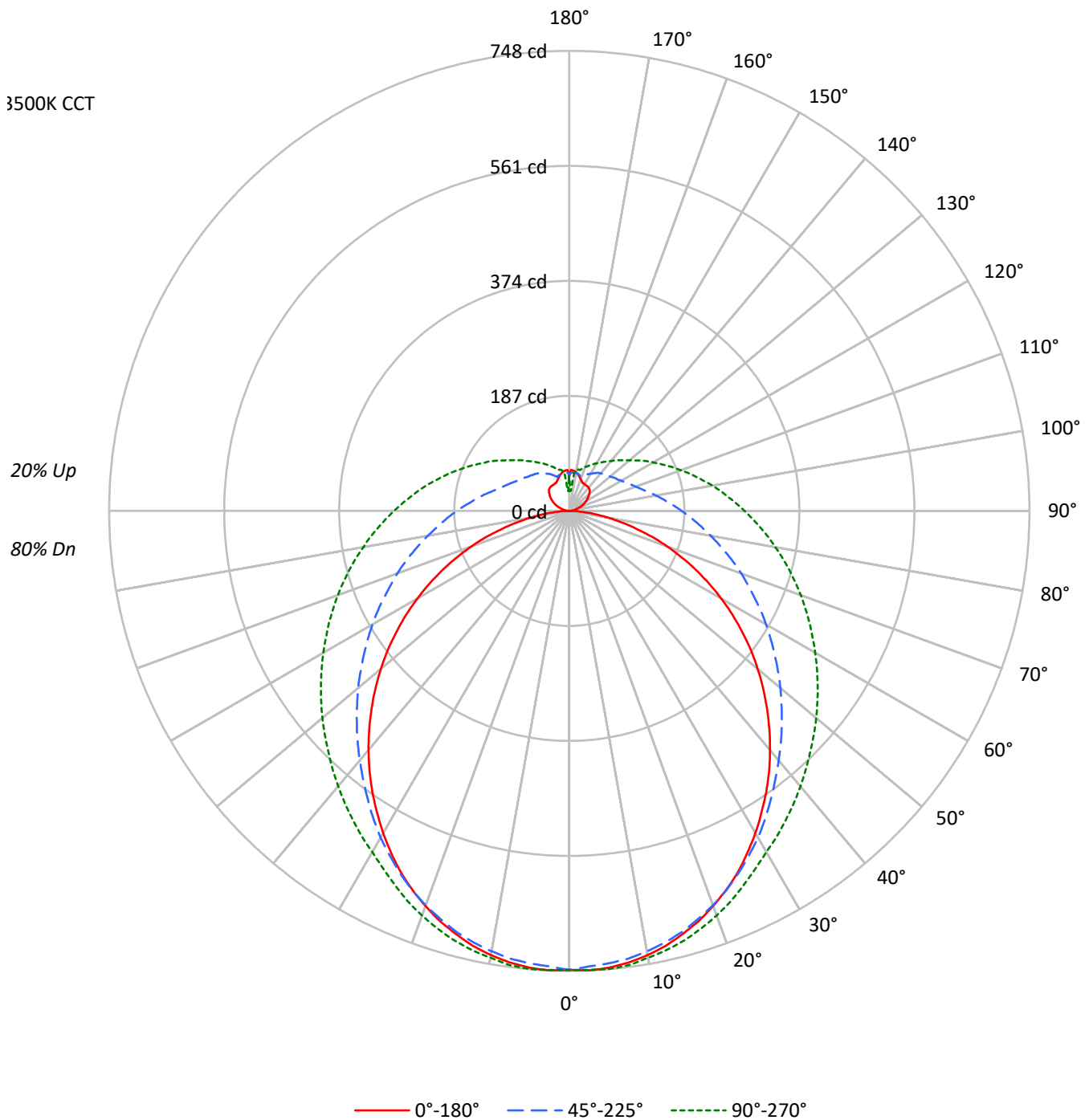
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3139.0 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.98' x H: 0.21')
CIE Type: Semi-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: P893450
CATALOG NUMBER: 4MB-3SL-RNDU-UNV-L835

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
RCR																				
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80		
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	61		
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	49		
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	41		
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	34		
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	29		
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	26		
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	23		
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	20		
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	18		
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5310	5310	5310
5°	5301	5086	5096
10°	5251	4887	4861
15°	5173	4687	4643
20°	5081	4475	4419
25°	4968	4262	4196
30°	4825	4048	3998
35°	4676	3827	3851
40°	4517	3628	3718
45°	4346	3451	3601
50°	4165	3294	3509
55°	3959	3148	3429
60°	3725	3028	3370
65°	3439	2922	3336
70°	3086	2857	3325
75°	2612	2811	3340
80°	2041	2809	3393
85°	1307	2882	3504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4346 cd/sqm



TEST NUMBER: P893450
 CATALOG NUMBER: 4MB-3SL-RNDU-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	2.2
10°-20°	201.3	6.4
20°-30°	302.3	9.6
30°-40°	363.5	11.6
40°-50°	385.1	12.3
50°-60°	370.9	11.8
60°-70°	328.2	10.5
70°-80°	269.2	8.6
80°-90°	208.9	6.7
90°-100°	162.1	5.2
100°-110°	128.5	4.1
110°-120°	102.3	3.3
120°-130°	81.3	2.6
130°-140°	63.5	2.0
140°-150°	46.7	1.5
150°-160°	30.9	1.0
160°-170°	17.8	0.6
170°-180°	5.7	0.2
0°-30°	574.2	18.3
0°-40°	937.7	29.9
0°-60°	1693.7	54.0
0°-90°	2500.1	79.6
90°-120°	393.0	12.5
90°-150°	584.5	18.6
90°-180°	639.0	20.4
0°-180°	3139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	746	746	738	744	748	71
15°	712	713	709	719	723	201
25°	648	650	650	667	671	298
35°	558	565	572	601	614	349
45°	454	465	488	535	554	351
55°	343	360	408	468	493	307
65°	227	258	332	401	431	225
75°	114	170	264	339	370	121
85°	26	103	207	282	312	29
90°	1	81	182	256	285	2
95°	4	67	161	231	259	4
105°	13	54	127	189	214	14
115°	26	52	106	154	175	25
125°	37	54	92	127	143	33
135°	47	58	83	106	116	36
145°	50	57	75	92	97	31
155°	50	59	65	78	82	24
165°	60	63	61	61	69	17
175°	66	65	62	52	35	6
180°	58	58	58	58	58	



TEST NUMBER: P893450
 CATALOG NUMBER: 4MB-3SL-RNDU-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3
2.5°	747.7	747.0	748.4	749.9	754.1	748.4	751.3	743.5	744.2	744.9	741.3
5°	745.6	743.5	745.6	747.0	750.6	746.3	749.1	740.6	741.3	742.8	738.5
7.5°	740.6	738.5	739.9	741.3	744.9	740.6	744.2	735.7	737.1	737.8	734.2
10°	733.5	730.7	732.1	734.2	737.1	733.5	736.4	728.6	729.3	730.7	727.1
12.5°	724.3	721.4	722.9	724.3	727.8	724.3	727.1	719.3	720.7	722.2	718.6
15°	712.2	709.4	710.8	712.2	715.1	712.9	715.8	708.0	709.4	712.2	708.7
17.5°	699.4	695.2	696.6	698.7	701.6	700.1	702.3	695.9	696.6	699.4	695.9
20°	683.8	679.6	681.0	683.1	685.9	685.2	686.7	681.0	682.4	685.9	682.4
22.5°	666.8	662.5	663.9	666.8	668.9	668.9	669.6	665.4	666.8	670.3	667.5
25°	648.3	644.0	645.5	648.3	650.4	650.4	651.9	647.6	649.7	653.3	650.4
27.5°	627.0	624.9	624.9	627.7	629.1	630.6	631.3	627.7	630.6	634.1	632.0
30°	605.0	602.2	603.6	607.1	607.1	610.0	610.0	607.1	610.7	614.9	613.5
32.5°	581.6	579.4	580.1	584.4	584.4	588.0	587.2	585.8	589.4	594.3	592.9
35°	558.1	556.0	556.7	561.0	561.0	565.2	563.8	563.8	567.4	573.0	571.6
37.5°	533.3	531.9	532.6	536.8	536.8	541.1	539.7	540.4	544.6	551.0	550.3
40°	507.7	506.3	507.7	511.3	512.7	516.2	514.8	516.2	521.9	527.6	529.7
42.5°	481.4	480.7	482.1	485.7	487.1	490.7	490.0	492.1	497.8	506.3	509.1
45°	454.5	454.5	455.9	459.4	460.8	465.1	464.4	467.2	474.3	483.6	488.5
47.5°	427.5	428.2	428.9	433.2	433.2	440.3	438.1	442.4	451.6	462.3	467.9
50°	399.8	401.2	401.9	405.5	406.9	413.3	411.9	419.0	428.9	440.3	448.1
52.5°	372.1	373.5	374.9	377.8	379.2	387.0	385.6	394.8	406.9	419.0	427.5
55°	343.0	345.8	346.5	350.1	352.2	360.0	360.0	370.7	383.4	396.9	407.6
57.5°	314.6	317.4	318.1	322.4	325.2	334.5	335.9	347.9	362.1	375.6	388.4
60°	285.5	289.0	289.7	294.0	298.9	308.9	311.0	324.5	340.1	354.3	369.2
62.5°	256.3	259.9	261.3	265.6	273.4	283.3	286.9	302.5	318.8	334.5	350.8
65°	227.2	230.8	232.9	238.6	247.8	258.5	263.4	279.8	298.2	314.6	331.6
67.5°	198.1	202.4	205.2	212.3	224.4	235.7	240.7	259.2	278.4	296.1	313.9
70°	169.7	174.0	177.5	186.8	201.0	212.3	218.7	238.6	258.5	277.6	297.5
72.5°	142.0	146.3	151.2	162.6	178.2	191.0	198.1	218.7	240.7	259.9	280.5
75°	113.6	118.6	124.3	139.9	157.6	170.4	178.2	200.2	223.0	242.1	264.2
77.5°	88.1	93.0	101.5	117.2	137.0	151.2	159.8	183.2	206.6	225.8	248.5
80°	64.6	69.6	81.0	98.0	118.6	132.1	142.7	166.9	191.0	210.9	233.6
82.5°	44.0	49.0	62.5	81.0	103.0	116.5	126.4	152.0	176.1	196.7	219.4
85°	25.6	32.7	46.9	66.7	89.5	103.0	112.9	139.2	162.6	183.2	206.6
87.5°	11.4	19.9	35.5	55.4	78.1	90.9	101.5	125.7	150.5	171.1	194.6
90°	0.7	11.4	27.7	46.9	68.9	81.0	90.9	115.0	138.5	159.8	182.5
92.5°	1.4	7.8	22.7	40.5	61.1	73.1	83.1	105.8	127.8	149.8	171.8
95°	3.6	7.8	19.9	36.2	55.4	66.7	76.0	98.0	118.6	139.9	161.2
97.5°	5.7	8.5	19.2	34.1	51.1	61.8	70.3	90.9	111.5	130.7	152.0
100°	7.8	10.7	19.2	32.7	48.3	58.2	66.0	85.2	104.4	122.1	143.4
102.5°	9.9	12.8	20.6	32.7	46.9	55.4	63.2	81.0	98.7	115.0	134.9
105°	12.8	14.9	22.0	32.7	45.4	54.0	60.4	76.7	93.7	109.4	127.1
107.5°	15.6	17.0	23.4	33.4	45.4	52.5	58.9	73.8	89.5	103.7	120.7
110°	19.2	19.9	25.6	34.8	45.4	51.8	57.5	71.7	85.9	99.4	115.0



TEST NUMBER: P893450
 CATALOG NUMBER: 4MB-3SL-RNDU-UNV-L835

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	22.0	22.0	27.7	36.2	45.4	51.8	56.8	69.6	83.1	95.2	110.1
115°	25.6	25.6	29.8	37.6	46.2	51.8	56.8	68.9	81.0	91.6	105.8
117.5°	28.4	28.4	32.7	39.1	47.6	52.5	56.8	67.5	78.8	88.8	101.5
120°	31.2	31.2	34.1	40.5	48.3	53.3	56.8	66.7	76.7	86.6	98.0
122.5°	34.1	34.1	36.2	42.6	49.0	53.3	56.8	66.0	75.3	83.8	94.4
125°	36.9	36.9	38.3	44.0	50.4	54.0	57.5	66.0	74.6	81.7	92.3
127.5°	39.8	39.1	41.2	46.2	51.1	54.7	58.2	66.0	73.1	80.2	89.5
130°	41.9	41.2	44.0	47.6	52.5	55.4	58.2	65.3	72.4	78.8	86.6
132.5°	44.7	43.3	46.9	48.3	54.0	56.8	58.9	65.3	71.7	77.4	85.2
135°	46.9	45.4	49.0	50.4	54.7	57.5	59.6	65.3	71.0	76.7	83.1
137.5°	48.3	47.6	51.1	52.5	55.4	58.2	60.4	65.3	70.3	75.3	81.7
140°	49.0	48.3	51.1	54.0	55.4	58.2	59.6	64.6	69.6	73.8	79.5
142.5°	49.7	49.7	51.8	54.7	55.4	57.5	59.6	63.9	68.2	71.7	78.1
145°	49.7	49.7	51.8	55.4	56.1	56.8	58.2	62.5	66.0	69.6	75.3
147.5°	49.7	49.7	52.5	55.4	56.8	57.5	56.8	61.1	64.6	67.5	72.4
150°	49.7	49.7	52.5	55.4	57.5	58.2	57.5	59.6	62.5	65.3	69.6
152.5°	50.4	50.4	52.5	55.4	57.5	58.2	58.2	58.2	60.4	63.2	67.5
155°	50.4	51.1	52.5	56.8	58.2	58.9	58.9	58.9	58.2	61.1	64.6
157.5°	52.5	53.3	54.0	57.5	58.9	59.6	59.6	59.6	58.9	58.2	61.8
160°	54.7	55.4	56.1	58.9	60.4	61.1	61.1	61.1	59.6	58.9	58.9
162.5°	56.8	58.2	58.2	59.6	61.1	61.8	61.8	62.5	61.1	60.4	59.6
165°	59.6	60.4	60.4	61.1	62.5	63.2	62.5	63.2	62.5	61.8	61.1
167.5°	61.8	62.5	62.5	63.2	63.2	63.9	63.9	63.9	63.2	62.5	62.5
170°	63.9	64.6	64.6	64.6	64.6	64.6	64.6	64.6	63.9	62.5	62.5
172.5°	65.3	66.0	66.0	65.3	65.3	65.3	65.3	64.6	63.2	62.5	62.5
175°	66.0	66.7	66.7	66.0	65.3	65.3	65.3	64.6	63.2	62.5	62.5
177.5°	66.7	67.5	66.7	66.7	65.3	65.3	65.3	65.3	63.9	63.2	62.5
180°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3
2.5°	745.6	737.1	742.8	743.5	746.3	743.5	745.6	743.5	749.1	747.0
5°	742.8	734.9	739.9	740.6	744.2	740.6	744.2	742.8	749.9	747.7
7.5°	737.8	731.4	735.7	736.4	740.6	737.1	740.6	739.2	747.7	744.9
10°	730.7	725.7	730.0	730.7	734.9	731.4	734.2	732.8	742.0	737.8
12.5°	722.9	718.6	722.2	722.9	727.8	724.3	727.8	726.4	735.7	731.4
15°	711.5	709.4	712.9	714.3	719.3	716.5	720.0	718.6	728.6	722.9
17.5°	700.1	698.7	702.3	703.7	709.4	705.8	709.4	708.0	717.9	712.2
20°	685.9	685.2	688.8	690.9	695.9	692.3	696.6	695.2	705.8	700.1
22.5°	671.0	671.0	673.9	676.0	681.0	678.1	682.4	681.7	692.3	686.7
25°	654.7	655.4	658.3	661.1	666.8	664.6	668.2	668.2	678.1	671.0
27.5°	636.2	639.8	641.9	645.5	650.4	648.3	651.9	652.6	662.5	655.4
30°	617.1	622.0	624.2	628.4	632.7	632.7	636.2	637.7	647.6	640.5
32.5°	597.2	602.9	605.7	611.4	617.1	617.1	622.0	624.2	634.1	627.7
35°	577.3	585.1	588.7	595.8	601.4	602.2	607.1	610.0	619.9	613.5
37.5°	558.1	568.1	571.6	580.1	585.1	586.5	592.2	595.8	605.0	599.3
40°	538.2	550.3	554.6	563.8	568.1	570.9	576.6	580.9	589.4	584.4
42.5°	519.1	532.6	536.8	546.8	551.7	554.6	560.3	565.9	574.5	569.5
45°	499.9	514.8	519.8	530.4	534.7	539.0	545.3	550.3	558.1	553.9
47.5°	481.4	497.1	502.0	513.4	518.4	523.3	529.0	536.1	543.2	539.0
50°	462.3	478.6	485.0	497.1	501.3	507.0	514.1	520.5	527.6	524.0
52.5°	443.8	460.8	467.2	480.0	485.0	490.7	497.8	504.9	511.3	508.4
55°	423.9	442.4	449.5	463.0	467.9	473.6	481.4	489.3	494.9	492.8
57.5°	405.5	424.6	431.7	446.6	450.9	458.0	465.8	474.3	479.3	477.2
60°	387.0	406.2	414.7	429.6	434.6	441.7	449.5	458.7	463.0	461.6
62.5°	368.5	388.4	397.6	413.3	417.5	425.3	434.6	442.4	446.6	445.9
65°	351.5	370.7	381.3	396.9	401.2	409.7	418.2	426.8	431.0	431.0
67.5°	333.7	354.3	365.0	381.3	384.9	394.1	403.3	411.9	415.4	415.4
70°	317.4	337.3	349.4	365.7	369.2	377.8	387.7	396.9	399.8	400.5
72.5°	301.1	321.0	333.7	350.8	354.3	362.9	372.1	382.0	384.2	384.9
75°	285.5	305.3	318.1	335.2	338.7	347.2	357.2	366.4	369.2	370.0
77.5°	269.8	289.7	303.9	320.2	323.8	332.3	342.3	351.5	353.6	355.0
80°	255.6	274.8	288.3	306.0	309.6	318.1	327.4	336.6	338.0	340.1
82.5°	241.4	260.6	274.8	291.8	295.4	303.9	313.1	322.4	323.8	326.6
85°	227.9	247.1	261.3	277.6	281.9	289.7	299.7	308.2	309.6	311.7
87.5°	215.9	233.6	248.5	264.2	268.4	276.2	286.2	294.7	295.4	298.2
90°	203.1	220.8	235.7	251.4	255.6	262.7	272.7	281.2	282.6	284.7
92.5°	192.4	208.8	224.4	239.3	242.9	250.7	259.9	268.4	269.8	272.0
95°	181.1	197.4	213.0	227.2	230.8	238.6	247.1	255.6	257.1	259.2
97.5°	171.1	186.8	201.7	215.9	219.4	226.5	235.7	243.6	245.0	247.8
100°	161.9	176.8	192.4	205.2	208.8	215.9	224.4	232.2	233.6	236.5
102.5°	153.4	167.6	182.5	194.6	198.8	205.2	213.7	220.8	222.3	224.4
105°	145.6	159.1	173.3	184.6	188.9	195.3	203.1	210.2	211.6	213.7
107.5°	137.8	150.5	164.0	175.4	178.9	184.6	192.4	199.5	201.0	203.8
110°	130.7	143.4	156.2	166.9	171.1	175.4	183.2	189.6	191.0	193.1



TEST NUMBER: P893450
 CATALOG NUMBER: 4MB-3SL-RNDU-UNV-L835

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	124.3	135.6	148.4	158.3	161.9	166.9	173.3	179.7	181.1	183.9
115°	118.6	129.2	142.0	151.2	154.1	158.3	165.5	171.1	172.6	174.7
117.5°	113.6	122.8	134.2	143.4	147.0	150.5	156.9	161.9	164.0	165.5
120°	109.4	117.9	127.8	136.3	140.6	143.4	149.1	154.1	156.2	157.6
122.5°	105.1	112.9	122.1	129.9	133.5	135.6	142.0	146.3	148.4	150.5
125°	101.5	108.6	117.2	123.6	127.1	129.2	134.9	139.2	141.3	142.7
127.5°	98.0	104.4	112.9	117.9	121.4	122.8	127.8	132.1	134.2	134.9
130°	94.4	100.8	107.9	112.9	115.7	117.9	122.1	125.0	127.1	127.8
132.5°	91.6	97.3	103.7	108.6	111.5	112.2	116.5	119.3	121.4	122.1
135°	89.5	93.7	100.1	104.4	106.5	107.9	111.5	113.6	115.7	116.5
137.5°	86.6	90.9	96.6	99.4	102.3	103.0	106.5	108.6	110.8	111.5
140°	84.5	88.1	93.0	95.9	98.7	98.7	101.5	103.7	105.8	105.8
142.5°	82.4	85.9	90.2	93.0	95.2	95.2	98.0	99.4	101.5	101.5
145°	79.5	83.1	87.3	89.5	91.6	91.6	93.7	95.2	97.3	97.3
147.5°	76.7	80.2	84.5	85.9	88.1	88.1	90.2	91.6	93.0	93.0
150°	73.1	76.0	81.0	83.1	85.2	85.2	86.6	88.1	89.5	89.5
152.5°	70.3	72.4	76.7	79.5	81.7	81.7	83.1	84.5	85.9	85.9
155°	66.7	68.9	72.4	76.0	78.1	78.8	80.2	81.0	82.4	82.4
157.5°	63.9	66.0	68.9	71.7	73.8	75.3	77.4	78.1	78.8	78.8
160°	60.4	61.8	64.6	67.5	69.6	71.0	74.6	75.3	76.0	76.0
162.5°	58.9	58.9	60.4	62.5	64.6	65.3	68.9	71.7	73.1	72.4
165°	59.6	58.9	58.9	59.6	61.1	61.8	63.9	68.2	69.6	68.9
167.5°	61.1	59.6	58.9	58.9	60.4	60.4	62.5	66.0	70.3	68.9
170°	61.1	58.9	57.5	57.5	58.2	58.2	59.6	61.8	66.0	66.7
172.5°	60.4	58.9	56.8	54.0	54.7	54.0	53.3	54.7	55.4	62.5
175°	61.1	58.9	56.8	53.3	51.8	49.7	46.2	43.3	42.6	34.8
177.5°	60.4	58.2	55.4	52.5	51.1	48.3	44.0	39.1	36.2	32.0
180°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5



TEST NUMBER: P893450
 CATALOG NUMBER: 4MB-3SL-RNDU-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	12.73	14.04	13.37	14.71	15.48	16.28	17.59	16.92	18.25	19.02
	3H	14.08	15.28	14.73	15.95	16.76	19.19	20.39	19.85	21.07	21.87
	4H	14.48	15.62	15.16	16.31	17.12	20.67	21.81	21.34	22.50	23.31
	6H	14.70	15.76	15.39	16.46	17.29	22.23	23.29	22.91	23.99	24.82
	8H	14.73	15.75	15.43	16.47	17.30	23.04	24.05	23.73	24.77	25.61
	12H	14.74	15.71	15.44	16.43	17.29	23.92	24.89	24.62	25.60	26.47
4H	2H	13.87	15.01	14.55	15.70	16.51	16.60	17.74	17.27	18.42	19.24
	3H	15.52	16.49	16.20	17.21	18.05	19.75	20.72	20.43	21.45	22.28
	4H	16.08	16.99	16.79	17.71	18.57	21.40	22.30	22.10	23.02	23.88
	6H	16.43	17.22	17.15	17.97	18.84	23.17	23.96	23.89	24.71	25.58
	8H	16.50	17.25	17.23	18.00	18.88	24.10	24.85	24.83	25.60	26.48
	12H	16.53	17.21	17.27	17.98	18.87	25.12	25.81	25.87	26.58	27.47
8H	4H	17.17	17.92	17.90	18.67	19.55	21.57	22.32	22.30	23.07	23.95
	6H	17.78	18.42	18.54	19.21	20.09	23.52	24.16	24.28	24.95	25.83
	8H	17.98	18.56	18.74	19.34	20.24	24.60	25.18	25.37	25.97	26.87
	12H	18.09	18.61	18.86	19.39	20.34	25.82	26.34	26.59	27.12	28.07
12H	4H	17.52	18.21	18.27	18.98	19.87	21.57	22.25	22.31	23.02	23.91
	6H	18.30	18.88	19.07	19.67	20.57	23.55	24.13	24.32	24.92	25.82
	8H	18.63	19.15	19.40	19.93	20.88	24.70	25.22	25.47	26.00	26.95