

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: P893333

Luminaire Tested: 4MB-2SL-RND-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893333
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-2SL-RND-UNV-L930
Description: 2000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

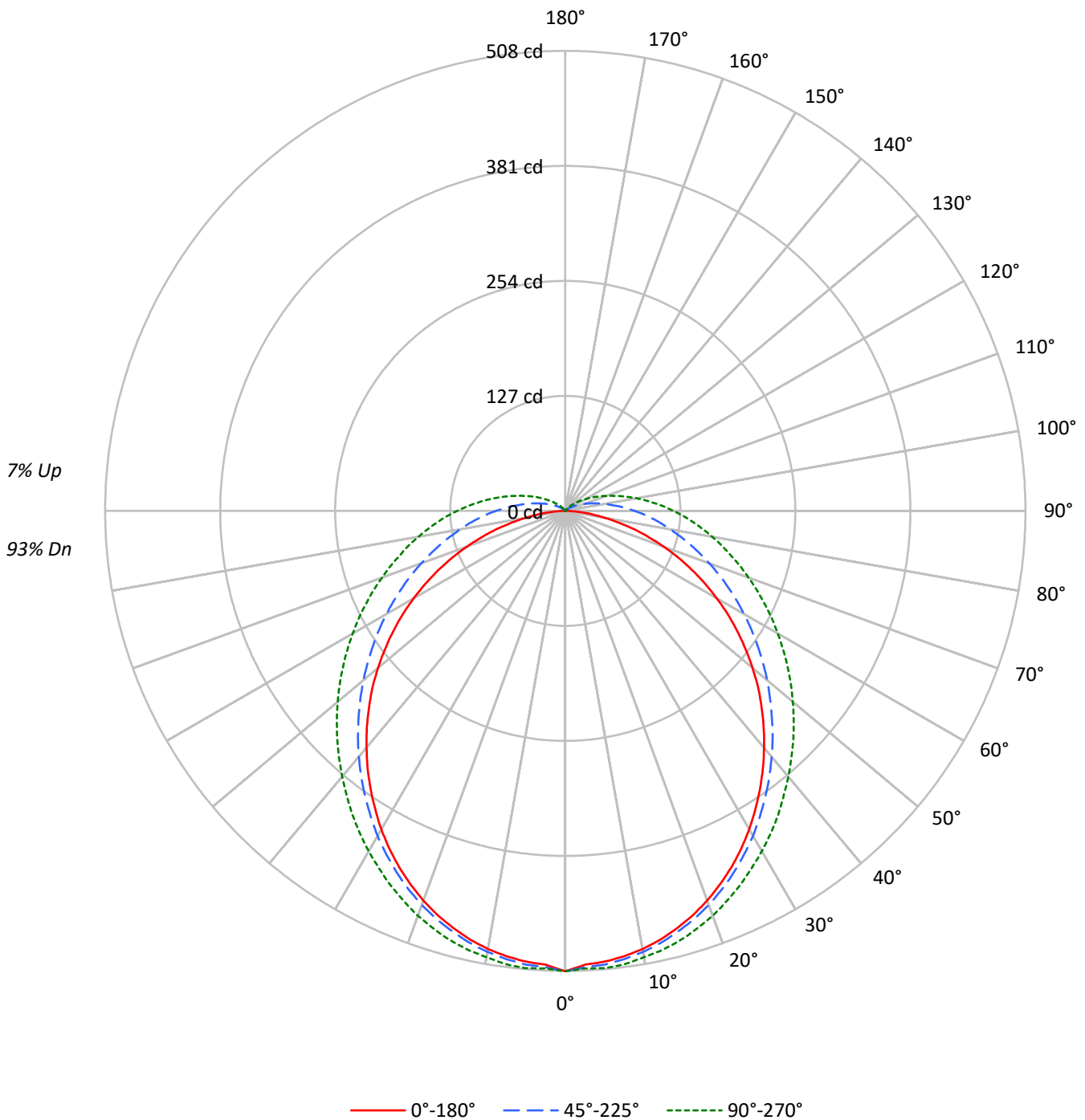
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1683.0 lumens
Efficiency: N/A
Efficacy: 122.0 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): 13.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.92
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893333
CATALOG NUMBER: 4MB-2SL-RND-UNV-L930

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°	3617	3617	3617
5°	3568	3591	3620
10°	3550	3573	3615
15°	3514	3542	3616
20°	3467	3506	3603
25°	3407	3457	3582
30°	3337	3405	3566
35°	3255	3345	3559
40°	3170	3292	3558
45°	3082	3246	3582
50°	2985	3219	3628
55°	2877	3213	3715
60°	2751	3243	3855
65°	2598	3328	4086
70°	2409	3518	4477
75°	2177	3915	5196
80°	1844	4823	6748
85°	1494	7861	11560

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 21287 cd/sqm



TEST NUMBER: P893333

CATALOG NUMBER: 4MB-2SL-RND-UNV-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	2.9
10°-20°	137.0	8.1
20°-30°	205.1	12.2
30°-40°	244.6	14.5
40°-50°	253.7	15.1
50°-60°	235.3	14.0
60°-70°	196.3	11.7
70°-80°	146.4	8.7
80°-90°	97.5	5.8
90°-100°	59.3	3.5
100°-110°	33.1	2.0
110°-120°	16.6	1.0
120°-130°	6.9	0.4
130°-140°	2.2	0.1
140°-150°	0.5	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	390.2	23.2
0°-40°	634.8	37.7
0°-60°	1123.8	66.8
0°-90°	1563.9	92.9
90°-120°	109.0	6.5
90°-150°	118.7	7.1
90°-180°	119.0	7.1
0°-180°	1683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	508	508	508	508	508	
5°	500	511	503	506	507	47
15°	477	489	481	490	491	134
25°	434	446	440	453	456	200
35°	375	385	385	404	410	234
45°	306	314	323	348	356	236
55°	232	240	259	289	300	207
65°	154	167	198	231	243	153
75°	79	101	142	177	189	84
85°	18	50	96	129	142	21
90°	1	33	76	108	119	1
95°	0	20	59	88	99	0
105°	0	6	32	54	63	0
115°	0	2	15	31	37	0
125°	0	0	6	15	18	0
135°	0	0	2	5	7	0
145°	0	0	0	1	2	0
155°	1	1	0	0	0	0
165°	1	1	0	0	0	0
175°	1	1	1	0	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4
2.5°	501.6	502.4	509.6	509.2	508.0	512.8	514.0	510.0	503.6	510.0	504.4
5°	499.6	500.4	507.6	507.2	506.0	511.2	511.6	508.0	501.6	508.0	502.8
7.5°	496.1	496.9	504.0	503.6	502.8	508.0	507.6	504.8	498.0	504.8	499.2
10°	491.3	491.7	499.2	498.4	498.0	503.2	502.0	499.6	492.9	499.6	494.5
12.5°	484.9	485.3	492.9	492.1	492.1	496.9	495.3	493.3	486.5	492.9	488.5
15°	477.0	477.4	484.5	484.1	484.1	489.3	486.9	485.3	479.0	485.7	480.9
17.5°	468.2	467.8	475.4	474.6	475.4	480.1	477.0	476.2	470.2	476.6	472.6
20°	457.9	457.9	464.6	464.2	465.4	469.8	465.8	466.2	460.3	467.0	463.0
22.5°	446.3	445.9	452.7	452.7	453.9	458.3	453.9	455.1	449.1	455.5	452.3
25°	434.0	433.2	440.0	440.0	442.0	445.5	440.8	442.4	436.8	443.2	440.4
27.5°	420.5	419.3	426.0	426.4	428.0	431.6	426.4	428.8	423.7	429.6	427.6
30°	406.2	405.0	411.7	412.1	414.1	416.9	411.7	414.9	410.1	416.1	414.5
32.5°	390.6	389.8	396.2	397.0	399.0	401.0	396.2	399.4	395.4	401.4	399.8
35°	374.7	373.9	379.9	381.1	383.1	384.7	379.5	383.9	380.3	385.9	385.1
37.5°	358.4	357.2	363.6	364.4	366.8	367.6	362.8	368.0	364.8	370.4	370.0
40°	341.3	340.1	346.5	347.3	349.7	349.7	345.7	351.3	348.9	354.0	354.4
42.5°	324.2	323.0	328.6	330.2	332.2	332.2	328.2	334.2	332.6	337.7	338.9
45°	306.3	305.1	310.3	311.9	314.3	314.3	310.3	317.0	315.9	321.0	322.6
47.5°	288.8	287.2	292.0	293.6	296.0	295.6	292.4	299.1	298.7	303.9	306.7
50°	269.7	268.5	273.3	274.9	277.7	276.9	274.5	281.6	281.6	286.8	290.8
52.5°	251.0	249.8	254.6	256.2	258.6	258.6	256.2	263.7	264.9	270.1	274.9
55°	231.9	230.3	235.1	236.7	239.5	239.9	237.9	245.4	247.8	253.8	259.0
57.5°	212.8	212.0	216.0	217.6	221.2	221.2	220.0	227.9	231.1	237.5	243.5
60°	193.3	192.5	196.1	198.1	202.1	202.9	202.1	210.4	214.8	221.2	227.9
62.5°	173.8	173.0	176.6	179.4	183.8	184.6	185.0	193.7	198.5	205.3	212.8
65°	154.3	153.6	157.1	160.3	165.5	166.7	167.9	177.0	182.6	189.8	197.7
67.5°	134.9	134.5	138.0	142.0	147.6	149.2	151.2	160.7	167.1	174.6	183.4
70°	115.8	115.4	118.9	123.7	130.5	132.5	134.9	144.4	152.4	160.3	169.1
72.5°	96.7	97.1	101.0	106.6	114.2	116.2	119.3	129.3	138.0	146.4	155.5
75°	79.2	79.2	83.5	89.9	98.3	101.0	104.6	115.0	124.1	132.9	142.4
77.5°	61.3	61.3	66.4	74.4	83.5	86.3	90.7	101.4	111.4	120.1	129.7
80°	45.0	45.7	51.7	59.7	69.2	72.8	78.0	88.7	99.5	108.2	117.7
82.5°	30.6	31.8	38.2	47.3	56.9	60.5	65.6	77.2	87.9	97.1	107.0
85°	18.3	20.3	27.1	36.2	46.1	50.1	55.7	66.4	77.2	86.3	96.3
87.5°	8.4	11.1	18.3	27.4	37.0	41.4	46.1	56.5	67.2	76.4	86.7
90°	0.8	4.8	11.9	19.9	29.0	33.0	37.8	47.7	58.1	66.4	76.4
92.5°	0.0	2.0	7.2	14.3	22.3	26.3	30.6	40.2	49.3	57.7	67.2
95°	0.0	0.8	4.0	9.9	16.7	20.3	24.3	33.0	42.2	50.1	58.9
97.5°	0.0	0.4	2.4	6.8	12.3	15.5	19.1	27.1	35.4	43.0	50.9
100°	0.0	0.4	1.2	4.4	9.1	11.5	15.1	21.9	29.4	36.2	44.2
102.5°	0.0	0.0	0.8	2.8	6.8	8.8	11.5	17.5	24.3	30.6	37.8
105°	0.0	0.0	0.4	2.0	4.8	6.4	8.8	13.9	19.9	25.5	32.2
107.5°	0.0	0.0	0.4	1.2	3.2	4.8	6.8	10.7	15.9	21.1	27.1
110°	0.4	0.4	0.4	0.8	2.4	3.6	4.8	8.4	13.1	17.5	22.7



TEST NUMBER: P893333

CATALOG NUMBER: 4MB-2SL-RND-UNV-L930

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.4	0.4	0.4	0.4	1.6	2.4	3.6	6.4	10.3	13.9	18.7
115°	0.4	0.4	0.4	0.4	1.2	1.6	2.4	4.8	8.0	11.1	15.1
117.5°	0.4	0.4	0.4	0.4	0.8	1.2	1.6	3.6	6.0	8.8	12.3
120°	0.4	0.4	0.4	0.4	0.4	0.8	1.2	2.4	4.8	6.8	9.9
122.5°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	2.0	3.6	5.2	7.6
125°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	2.4	4.0	6.0
127.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6	2.8	4.4
130°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	2.0	3.2
132.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6	2.4
135°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6
137.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2
140°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
142.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
145°	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
147.5°	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150°	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
152.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4
167.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4
170°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4
175°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
177.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4
2.5°	506.0	507.2	508.4	505.2	507.2	510.8	512.0	507.2	508.8	505.6
5°	504.4	505.2	506.8	502.8	505.6	508.8	510.8	506.8	509.2	506.8
7.5°	501.2	502.0	504.0	500.0	503.6	506.4	508.8	504.8	507.2	504.8
10°	496.5	497.6	500.4	495.7	500.0	502.4	504.8	500.4	502.8	500.4
12.5°	490.5	492.5	494.9	490.5	494.9	496.9	500.0	495.7	498.4	496.5
15°	483.3	485.3	488.5	484.1	489.7	491.3	494.5	490.1	492.9	490.9
17.5°	475.0	477.4	481.3	476.2	482.5	483.7	486.9	482.9	485.7	483.7
20°	465.4	467.8	471.8	467.0	473.4	474.2	477.8	474.2	477.0	475.8
22.5°	454.3	457.1	461.1	456.7	463.4	463.4	467.8	464.2	467.4	466.2
25°	442.8	445.9	450.3	445.5	452.7	452.7	457.5	453.9	457.1	456.3
27.5°	430.4	434.0	439.2	434.4	441.6	441.2	445.9	442.8	446.3	445.1
30°	417.3	421.3	426.4	422.5	430.0	429.2	434.0	431.2	434.4	434.0
32.5°	403.0	407.3	413.7	409.3	416.9	416.1	422.1	418.9	422.9	422.1
35°	388.7	393.4	399.8	395.8	404.2	403.0	408.9	406.2	410.1	409.7
37.5°	373.9	379.1	385.5	382.3	390.2	389.0	395.4	393.0	397.4	396.2
40°	358.8	364.0	370.8	368.0	376.3	374.7	381.5	379.5	383.9	383.1
42.5°	343.7	349.3	356.0	354.4	362.4	360.8	367.6	366.0	370.4	369.6
45°	328.2	334.2	341.3	339.7	348.1	346.5	353.2	352.1	356.4	356.0
47.5°	312.7	319.0	326.2	325.4	333.4	331.8	338.9	337.7	342.1	342.1
50°	296.8	303.9	311.1	310.7	318.6	317.0	323.4	323.4	328.2	327.8
52.5°	280.8	288.4	296.0	296.0	303.9	302.3	309.5	309.1	313.9	313.9
55°	265.7	272.5	280.1	281.6	289.2	286.8	294.4	295.2	299.1	299.5
57.5°	250.6	257.8	265.3	267.3	274.5	272.9	280.1	280.8	284.8	285.2
60°	235.5	242.3	249.8	252.6	259.8	258.2	265.3	266.1	270.5	270.9
62.5°	220.4	227.1	235.5	238.3	245.0	243.9	251.4	252.2	256.2	257.0
65°	205.7	212.8	220.8	224.8	231.1	229.5	237.1	237.9	242.3	242.7
67.5°	191.3	198.5	206.5	210.8	216.8	216.0	223.2	224.8	228.3	229.1
70°	177.4	184.6	192.9	197.3	203.3	202.9	209.6	210.8	214.8	215.2
72.5°	163.9	171.1	179.4	184.6	189.8	189.4	196.1	197.7	201.7	202.1
75°	150.8	158.3	166.3	171.9	177.0	176.6	183.4	185.0	188.6	189.0
77.5°	138.4	146.0	154.3	159.9	164.3	164.7	170.7	172.2	175.8	177.0
80°	126.9	134.1	142.0	148.0	152.0	152.8	158.3	160.3	163.1	164.7
82.5°	115.8	122.9	130.9	136.4	140.4	141.2	146.4	148.8	151.6	152.8
85°	105.0	112.2	119.7	125.7	129.3	129.7	134.9	137.2	139.6	141.6
87.5°	94.7	101.8	109.0	115.4	118.5	119.3	124.1	126.5	128.5	130.5
90°	84.3	91.5	98.7	104.6	107.8	108.2	113.4	115.8	117.7	119.3
92.5°	74.8	81.9	89.1	95.1	97.9	98.7	103.0	105.8	107.4	109.0
95°	65.6	72.8	79.2	85.5	88.3	89.5	93.5	95.9	97.9	98.7
97.5°	57.7	64.0	70.0	76.4	78.8	80.0	83.9	86.7	88.3	89.1
100°	50.1	56.1	61.7	67.6	70.0	71.2	74.8	77.2	78.8	80.0
102.5°	43.4	48.9	54.1	59.7	62.1	62.9	66.0	68.4	70.0	71.2
105°	37.4	42.6	47.3	52.5	54.5	55.7	58.5	60.5	62.1	62.9
107.5°	31.8	37.0	41.0	45.7	47.7	48.5	51.3	53.7	54.9	55.3
110°	27.1	31.4	35.4	39.4	41.8	42.6	45.0	46.9	48.1	48.5



TEST NUMBER: P893333

CATALOG NUMBER: 4MB-2SL-RND-UNV-L930

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	22.7	26.7	30.2	33.8	35.8	36.6	39.0	41.0	41.8	42.2
115°	18.7	22.7	25.5	29.0	30.6	31.4	33.4	35.4	35.8	36.6
117.5°	15.1	18.7	21.5	24.3	25.9	26.7	28.2	29.8	30.6	31.0
120°	12.3	15.1	17.5	20.3	21.5	22.3	23.9	25.5	25.9	26.3
122.5°	9.9	12.3	14.3	16.7	17.9	18.7	19.9	21.1	21.5	21.9
125°	7.6	9.9	11.5	13.5	14.7	15.1	16.3	17.5	17.9	18.3
127.5°	6.0	7.6	9.1	10.7	11.5	11.9	13.1	13.9	14.3	14.7
130°	4.4	5.6	6.8	8.4	9.1	9.5	10.3	11.1	11.5	11.5
132.5°	3.2	4.4	5.2	6.4	6.8	7.2	8.0	8.8	8.8	9.1
135°	2.0	2.8	3.6	4.4	5.2	5.2	6.0	6.4	6.8	6.8
137.5°	1.6	2.0	2.4	3.2	3.6	4.0	4.0	4.8	4.8	4.8
140°	1.2	1.6	1.6	2.0	2.4	2.8	2.8	3.2	3.2	3.2
142.5°	0.8	1.2	1.2	1.6	1.6	2.0	2.0	2.0	2.4	2.4
145°	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6	1.6
147.5°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2
150°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
152.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
177.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P893333
 CATALOG NUMBER: 4MB-2SL-RND-UNV-L930

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	14.75	16.29	15.23	16.75	17.24	16.33	17.86	16.80	18.32	18.81
	3H	16.43	17.83	16.91	18.30	18.83	18.95	20.35	19.43	20.82	21.35
	4H	17.03	18.36	17.53	18.84	19.38	20.26	21.59	20.77	22.08	22.62
	6H	17.43	18.67	17.94	19.16	19.72	21.67	22.91	22.18	23.41	23.96
	8H	17.54	18.73	18.07	19.25	19.82	22.42	23.60	22.95	24.13	24.69
	12H	17.62	18.76	18.15	19.27	19.87	23.27	24.41	23.80	24.92	25.52
4H	2H	15.68	17.01	16.19	17.50	18.04	16.88	18.21	17.38	18.69	19.23
	3H	17.66	18.80	18.18	19.32	19.89	19.79	20.93	20.31	21.46	22.02
	4H	18.44	19.48	18.97	20.02	20.61	21.32	22.36	21.85	22.90	23.49
	6H	19.02	19.94	19.57	20.50	21.11	22.96	23.88	23.52	24.44	25.05
	8H	19.20	20.07	19.76	20.63	21.25	23.84	24.71	24.40	25.27	25.89
	12H	19.32	20.11	19.91	20.70	21.33	24.85	25.63	25.43	26.23	26.85
8H	4H	19.32	20.18	19.88	20.75	21.37	21.68	22.55	22.24	23.11	23.73
	6H	20.20	20.93	20.79	21.54	22.17	23.58	24.32	24.17	24.92	25.55
	8H	20.55	21.21	21.15	21.83	22.47	24.66	25.33	25.27	25.95	26.59
	12H	20.82	21.41	21.42	22.02	22.72	25.93	26.52	26.54	27.13	27.83
12H	4H	19.59	20.38	20.18	20.97	21.60	21.72	22.51	22.30	23.10	23.73
	6H	20.65	21.31	21.25	21.93	22.57	23.69	24.36	24.30	24.97	25.61
	8H	21.16	21.76	21.77	22.36	23.07	24.89	25.48	25.49	26.09	26.79