

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: P893455

Luminaire Tested: 4MB-3SL-RNDU-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893455
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-L940
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 4
Light Source: -
Ballast/Driver: -

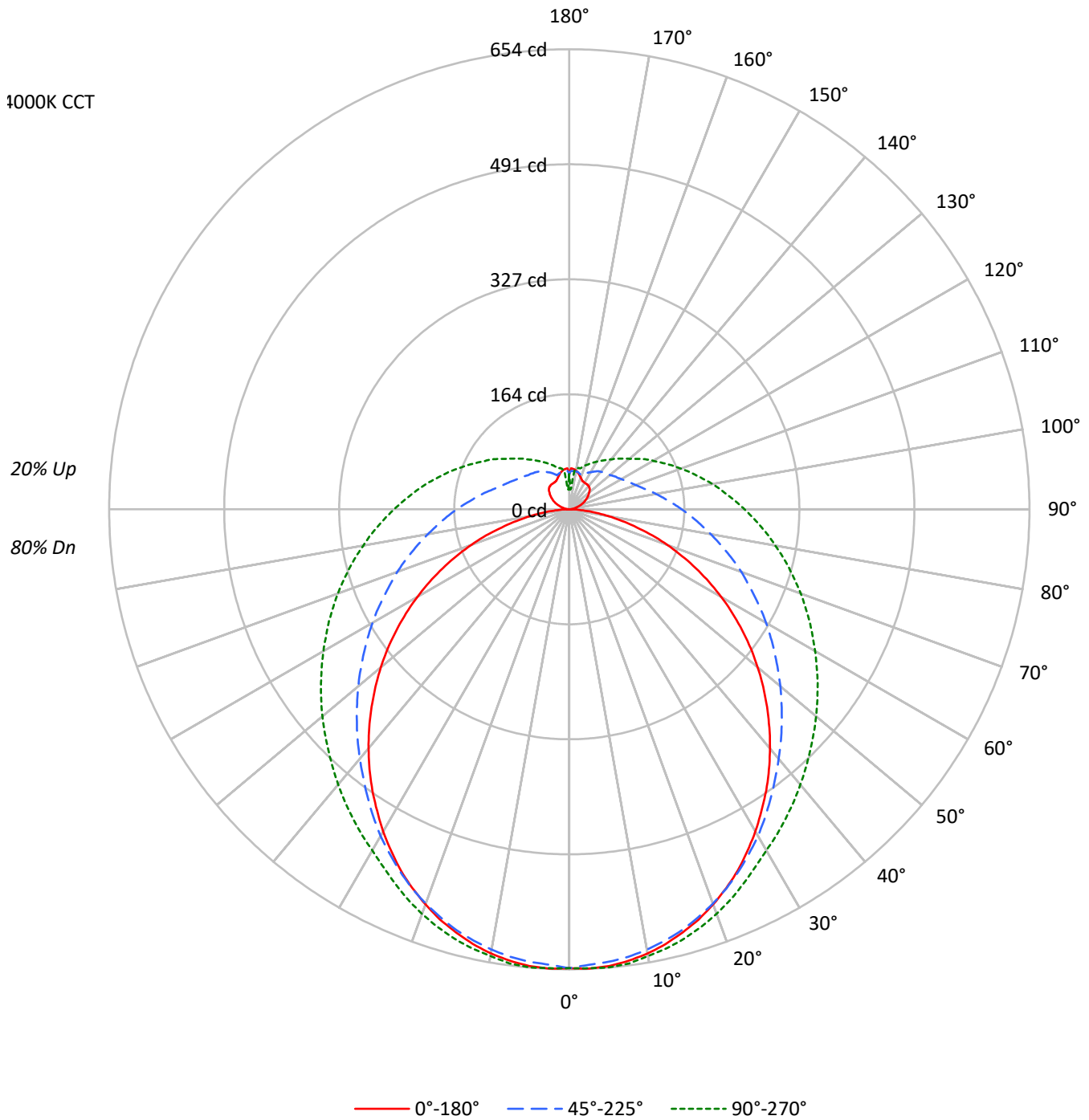
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2744.0 lumens
Efficiency: N/A
Efficacy: 130.0 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4642	4642	4642
5°	4634	4446	4455
10°	4590	4272	4249
15°	4523	4097	4059
20°	4442	3912	3863
25°	4343	3726	3668
30°	4218	3539	3494
35°	4088	3346	3367
40°	3949	3172	3251
45°	3799	3017	3147
50°	3641	2879	3068
55°	3460	2752	2998
60°	3255	2647	2946
65°	3006	2555	2917
70°	2699	2498	2907
75°	2284	2456	2920
80°	1785	2456	2966
85°	1139	2519	3063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3799 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	2.2
10°-20°	176.0	6.4
20°-30°	264.2	9.6
30°-40°	317.8	11.6
40°-50°	336.7	12.3
50°-60°	324.2	11.8
60°-70°	286.9	10.5
70°-80°	235.4	8.6
80°-90°	182.6	6.7
90°-100°	141.7	5.2
100°-110°	112.3	4.1
110°-120°	89.5	3.3
120°-130°	71.1	2.6
130°-140°	55.5	2.0
140°-150°	40.8	1.5
150°-160°	27.0	1.0
160°-170°	15.5	0.6
170°-180°	5.0	0.2
0°-30°	502.0	18.3
0°-40°	819.7	29.9
0°-60°	1480.6	54.0
0°-90°	2185.5	79.6
90°-120°	343.5	12.5
90°-150°	510.9	18.6
90°-180°	558.0	20.3
0°-180°	2744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	652	652	646	650	654	62
15°	623	623	620	629	632	176
25°	567	569	569	583	587	261
35°	488	494	500	526	536	305
45°	397	407	427	467	484	307
55°	300	315	356	409	431	268
65°	199	226	290	351	377	197
75°	99	149	231	296	323	106
85°	22	90	181	246	272	26
90°	1	71	160	224	249	2
95°	3	58	141	202	227	3
105°	11	47	111	165	187	12
115°	22	45	92	135	153	22
125°	32	47	81	111	125	29
135°	41	50	73	93	102	31
145°	44	50	66	80	85	27
155°	44	52	56	68	72	21
165°	52	55	53	53	60	15
175°	58	57	55	45	30	5
180°	50	50	50	50	50	



TEST NUMBER: P893455
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
2.5°	653.6	653.0	654.3	655.5	659.2	654.3	656.7	649.9	650.5	651.1	648.0
5°	651.8	649.9	651.8	653.0	656.1	652.4	654.9	647.4	648.0	649.3	645.6
7.5°	647.4	645.6	646.8	648.0	651.1	647.4	650.5	643.1	644.3	644.9	641.8
10°	641.2	638.7	640.0	641.8	644.3	641.2	643.7	636.9	637.5	638.7	635.6
12.5°	633.1	630.7	631.9	633.1	636.3	633.1	635.6	628.8	630.0	631.3	628.2
15°	622.6	620.1	621.4	622.6	625.1	623.2	625.7	618.9	620.1	622.6	619.5
17.5°	611.4	607.7	608.9	610.8	613.3	612.0	613.9	608.3	608.9	611.4	608.3
20°	597.8	594.0	595.3	597.1	599.6	599.0	600.2	595.3	596.5	599.6	596.5
22.5°	582.9	579.1	580.4	582.9	584.7	584.7	585.4	581.6	582.9	586.0	583.5
25°	566.7	563.0	564.2	566.7	568.6	568.6	569.8	566.1	568.0	571.1	568.6
27.5°	548.1	546.2	546.2	548.7	550.0	551.2	551.8	548.7	551.2	554.3	552.5
30°	528.9	526.4	527.6	530.7	530.7	533.2	533.2	530.7	533.8	537.6	536.3
32.5°	508.4	506.5	507.1	510.9	510.9	514.0	513.3	512.1	515.2	519.6	518.3
35°	487.9	486.0	486.7	490.4	490.4	494.1	492.9	492.9	496.0	500.9	499.7
37.5°	466.2	464.9	465.5	469.3	469.3	473.0	471.8	472.4	476.1	481.7	481.1
40°	443.8	442.6	443.8	446.9	448.2	451.3	450.0	451.3	456.2	461.2	463.1
42.5°	420.9	420.2	421.5	424.6	425.8	428.9	428.3	430.2	435.1	442.6	445.1
45°	397.3	397.3	398.5	401.6	402.9	406.6	406.0	408.4	414.6	422.7	427.1
47.5°	373.7	374.3	374.9	378.6	378.6	384.9	383.0	386.7	394.8	404.1	409.1
50°	349.5	350.7	351.3	354.4	355.7	361.3	360.0	366.2	374.9	384.9	391.7
52.5°	325.3	326.5	327.7	330.2	331.5	338.3	337.1	345.1	355.7	366.2	373.7
55°	299.8	302.3	302.9	306.0	307.9	314.7	314.7	324.0	335.2	347.0	356.3
57.5°	275.0	277.5	278.1	281.8	284.3	292.4	293.6	304.2	316.6	328.4	339.5
60°	249.5	252.6	253.3	257.0	261.3	270.0	271.9	283.7	297.3	309.7	322.8
62.5°	224.1	227.2	228.4	232.2	239.0	247.7	250.8	264.4	278.7	292.4	306.6
65°	198.6	201.7	203.6	208.6	216.6	225.9	230.3	244.6	260.7	275.0	289.9
67.5°	173.2	176.9	179.4	185.6	196.2	206.1	210.4	226.6	243.3	258.8	274.4
70°	148.4	152.1	155.2	163.3	175.7	185.6	191.2	208.6	225.9	242.7	260.1
72.5°	124.1	127.9	132.2	142.1	155.8	167.0	173.2	191.2	210.4	227.2	245.2
75°	99.3	103.7	108.6	122.3	137.8	149.0	155.8	175.0	194.9	211.7	230.9
77.5°	77.0	81.3	88.8	102.4	119.8	132.2	139.7	160.1	180.6	197.4	217.3
80°	56.5	60.8	70.8	85.7	103.7	115.5	124.8	145.9	167.0	184.4	204.2
82.5°	38.5	42.8	54.6	70.8	90.0	101.8	110.5	132.8	153.9	171.9	191.8
85°	22.3	28.6	41.0	58.3	78.2	90.0	98.7	121.7	142.1	160.1	180.6
87.5°	9.9	17.4	31.0	48.4	68.3	79.5	88.8	109.9	131.6	149.6	170.1
90°	0.6	9.9	24.2	41.0	60.2	70.8	79.5	100.6	121.0	139.7	159.5
92.5°	1.2	6.8	19.9	35.4	53.4	63.9	72.6	92.5	111.7	131.0	150.2
95°	3.1	6.8	17.4	31.7	48.4	58.3	66.4	85.7	103.7	122.3	140.9
97.5°	5.0	7.4	16.8	29.8	44.7	54.0	61.5	79.5	97.5	114.2	132.8
100°	6.8	9.3	16.8	28.6	42.2	50.9	57.7	74.5	91.2	106.8	125.4
102.5°	8.7	11.2	18.0	28.6	41.0	48.4	55.2	70.8	86.3	100.6	117.9
105°	11.2	13.0	19.2	28.6	39.7	47.2	52.8	67.0	81.9	95.6	111.1
107.5°	13.7	14.9	20.5	29.2	39.7	45.9	51.5	64.6	78.2	90.6	105.5
110°	16.8	17.4	22.3	30.4	39.7	45.3	50.3	62.7	75.1	86.9	100.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	19.2	19.2	24.2	31.7	39.7	45.3	49.7	60.8	72.6	83.2	96.2
115°	22.3	22.3	26.1	32.9	40.3	45.3	49.7	60.2	70.8	80.1	92.5
117.5°	24.8	24.8	28.6	34.1	41.6	45.9	49.7	59.0	68.9	77.6	88.8
120°	27.3	27.3	29.8	35.4	42.2	46.6	49.7	58.3	67.0	75.7	85.7
122.5°	29.8	29.8	31.7	37.2	42.8	46.6	49.7	57.7	65.8	73.2	82.6
125°	32.3	32.3	33.5	38.5	44.1	47.2	50.3	57.7	65.2	71.4	80.7
127.5°	34.8	34.1	36.0	40.3	44.7	47.8	50.9	57.7	63.9	70.1	78.2
130°	36.6	36.0	38.5	41.6	45.9	48.4	50.9	57.1	63.3	68.9	75.7
132.5°	39.1	37.9	41.0	42.2	47.2	49.7	51.5	57.1	62.7	67.7	74.5
135°	41.0	39.7	42.8	44.1	47.8	50.3	52.1	57.1	62.1	67.0	72.6
137.5°	42.2	41.6	44.7	45.9	48.4	50.9	52.8	57.1	61.5	65.8	71.4
140°	42.8	42.2	44.7	47.2	48.4	50.9	52.1	56.5	60.8	64.6	69.5
142.5°	43.5	43.5	45.3	47.8	48.4	50.3	52.1	55.9	59.6	62.7	68.3
145°	43.5	43.5	45.3	48.4	49.0	49.7	50.9	54.6	57.7	60.8	65.8
147.5°	43.5	43.5	45.9	48.4	49.7	50.3	49.7	53.4	56.5	59.0	63.3
150°	43.5	43.5	45.9	48.4	50.3	50.9	50.3	52.1	54.6	57.1	60.8
152.5°	44.1	44.1	45.9	48.4	50.3	50.9	50.9	50.9	52.8	55.2	59.0
155°	44.1	44.7	45.9	49.7	50.9	51.5	51.5	51.5	50.9	53.4	56.5
157.5°	45.9	46.6	47.2	50.3	51.5	52.1	52.1	52.1	51.5	50.9	54.0
160°	47.8	48.4	49.0	51.5	52.8	53.4	53.4	53.4	52.1	51.5	51.5
162.5°	49.7	50.9	50.9	52.1	53.4	54.0	54.0	54.6	53.4	52.8	52.1
165°	52.1	52.8	52.8	53.4	54.6	55.2	54.6	55.2	54.6	54.0	53.4
167.5°	54.0	54.6	54.6	55.2	55.2	55.9	55.9	55.9	55.2	54.6	54.6
170°	55.9	56.5	56.5	56.5	56.5	56.5	56.5	56.5	55.9	54.6	54.6
172.5°	57.1	57.7	57.7	57.1	57.1	57.1	57.1	56.5	55.2	54.6	54.6
175°	57.7	58.3	58.3	57.7	57.1	57.1	57.1	56.5	55.2	54.6	54.6
177.5°	58.3	59.0	58.3	58.3	57.1	57.1	57.1	57.1	55.9	55.2	54.6
180°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
2.5°	651.8	644.3	649.3	649.9	652.4	649.9	651.8	649.9	654.9	653.0
5°	649.3	642.5	646.8	647.4	650.5	647.4	650.5	649.3	655.5	653.6
7.5°	644.9	639.4	643.1	643.7	647.4	644.3	647.4	646.2	653.6	651.1
10°	638.7	634.4	638.1	638.7	642.5	639.4	641.8	640.6	648.7	644.9
12.5°	631.9	628.2	631.3	631.9	636.3	633.1	636.3	635.0	643.1	639.4
15°	622.0	620.1	623.2	624.5	628.8	626.3	629.4	628.2	636.9	631.9
17.5°	612.0	610.8	613.9	615.1	620.1	617.0	620.1	618.9	627.6	622.6
20°	599.6	599.0	602.1	604.0	608.3	605.2	608.9	607.7	617.0	612.0
22.5°	586.6	586.6	589.1	590.9	595.3	592.8	596.5	595.9	605.2	600.2
25°	572.3	572.9	575.4	577.9	582.9	581.0	584.1	584.1	592.8	586.6
27.5°	556.2	559.3	561.1	564.2	568.6	566.7	569.8	570.5	579.1	572.9
30°	539.4	543.8	545.6	549.3	553.1	553.1	556.2	557.4	566.1	559.9
32.5°	522.0	527.0	529.5	534.5	539.4	539.4	543.8	545.6	554.3	548.7
35°	504.7	511.5	514.6	520.8	525.8	526.4	530.7	533.2	541.9	536.3
37.5°	487.9	496.6	499.7	507.1	511.5	512.7	517.7	520.8	528.9	523.9
40°	470.5	481.1	484.8	492.9	496.6	499.1	504.0	507.8	515.2	510.9
42.5°	453.8	465.5	469.3	478.0	482.3	484.8	489.8	494.7	502.2	497.8
45°	437.0	450.0	454.4	463.7	467.4	471.1	476.7	481.1	487.9	484.2
47.5°	420.9	434.5	438.9	448.8	453.1	457.5	462.4	468.7	474.9	471.1
50°	404.1	418.4	424.0	434.5	438.2	443.2	449.4	455.0	461.2	458.1
52.5°	388.0	402.9	408.4	419.6	424.0	428.9	435.1	441.3	446.9	444.4
55°	370.6	386.7	392.9	404.7	409.1	414.0	420.9	427.7	432.7	430.8
57.5°	354.4	371.2	377.4	390.4	394.2	400.4	407.2	414.6	419.0	417.1
60°	338.3	355.1	362.5	375.5	379.9	386.1	392.9	401.0	404.7	403.5
62.5°	322.2	339.5	347.6	361.3	365.0	371.8	379.9	386.7	390.4	389.8
65°	307.3	324.0	333.3	347.0	350.7	358.2	365.6	373.1	376.8	376.8
67.5°	291.7	309.7	319.1	333.3	336.4	344.5	352.6	360.0	363.1	363.1
70°	277.5	294.8	305.4	319.7	322.8	330.2	338.9	347.0	349.5	350.1
72.5°	263.2	280.6	291.7	306.6	309.7	317.2	325.3	334.0	335.8	336.4
75°	249.5	266.9	278.1	293.0	296.1	303.5	312.2	320.3	322.8	323.4
77.5°	235.9	253.3	265.7	280.0	283.1	290.5	299.2	307.3	309.1	310.4
80°	223.5	240.2	252.0	267.5	270.6	278.1	286.2	294.2	295.5	297.3
82.5°	211.0	227.8	240.2	255.1	258.2	265.7	273.7	281.8	283.1	285.5
85°	199.3	216.0	228.4	242.7	246.4	253.3	261.9	269.4	270.6	272.5
87.5°	188.7	204.2	217.3	230.9	234.6	241.5	250.2	257.6	258.2	260.7
90°	177.5	193.0	206.1	219.7	223.5	229.7	238.4	245.8	247.1	248.9
92.5°	168.2	182.5	196.2	209.2	212.3	219.1	227.2	234.6	235.9	237.7
95°	158.3	172.6	186.2	198.6	201.7	208.6	216.0	223.5	224.7	226.6
97.5°	149.6	163.3	176.3	188.7	191.8	198.0	206.1	212.9	214.2	216.6
100°	141.5	154.6	168.2	179.4	182.5	188.7	196.2	203.0	204.2	206.7
102.5°	134.1	146.5	159.5	170.1	173.8	179.4	186.8	193.0	194.3	196.2
105°	127.3	139.0	151.5	161.4	165.1	170.7	177.5	183.7	185.0	186.8
107.5°	120.4	131.6	143.4	153.3	156.4	161.4	168.2	174.4	175.7	178.2
110°	114.2	125.4	136.6	145.9	149.6	153.3	160.1	165.7	167.0	168.8



TEST NUMBER: P893455
 CATALOG NUMBER: 4MB-3SL-RNDU-UNV-L940

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	108.6	118.6	129.7	138.4	141.5	145.9	151.5	157.0	158.3	160.8
115°	103.7	113.0	124.1	132.2	134.7	138.4	144.6	149.6	150.8	152.7
117.5°	99.3	107.4	117.3	125.4	128.5	131.6	137.2	141.5	143.4	144.6
120°	95.6	103.0	111.7	119.2	122.9	125.4	130.4	134.7	136.6	137.8
122.5°	91.9	98.7	106.8	113.6	116.7	118.6	124.1	127.9	129.7	131.6
125°	88.8	95.0	102.4	108.0	111.1	113.0	117.9	121.7	123.5	124.8
127.5°	85.7	91.2	98.7	103.0	106.1	107.4	111.7	115.5	117.3	117.9
130°	82.6	88.1	94.4	98.7	101.2	103.0	106.8	109.2	111.1	111.7
132.5°	80.1	85.0	90.6	95.0	97.5	98.1	101.8	104.3	106.1	106.8
135°	78.2	81.9	87.5	91.2	93.1	94.4	97.5	99.3	101.2	101.8
137.5°	75.7	79.5	84.4	86.9	89.4	90.0	93.1	95.0	96.8	97.5
140°	73.9	77.0	81.3	83.8	86.3	86.3	88.8	90.6	92.5	92.5
142.5°	72.0	75.1	78.8	81.3	83.2	83.2	85.7	86.9	88.8	88.8
145°	69.5	72.6	76.4	78.2	80.1	80.1	81.9	83.2	85.0	85.0
147.5°	67.0	70.1	73.9	75.1	77.0	77.0	78.8	80.1	81.3	81.3
150°	63.9	66.4	70.8	72.6	74.5	74.5	75.7	77.0	78.2	78.2
152.5°	61.5	63.3	67.0	69.5	71.4	71.4	72.6	73.9	75.1	75.1
155°	58.3	60.2	63.3	66.4	68.3	68.9	70.1	70.8	72.0	72.0
157.5°	55.9	57.7	60.2	62.7	64.6	65.8	67.7	68.3	68.9	68.9
160°	52.8	54.0	56.5	59.0	60.8	62.1	65.2	65.8	66.4	66.4
162.5°	51.5	51.5	52.8	54.6	56.5	57.1	60.2	62.7	63.9	63.3
165°	52.1	51.5	51.5	52.1	53.4	54.0	55.9	59.6	60.8	60.2
167.5°	53.4	52.1	51.5	51.5	52.8	52.8	54.6	57.7	61.5	60.2
170°	53.4	51.5	50.3	50.3	50.9	50.9	52.1	54.0	57.7	58.3
172.5°	52.8	51.5	49.7	47.2	47.8	47.2	46.6	47.8	48.4	54.6
175°	53.4	51.5	49.7	46.6	45.3	43.5	40.3	37.9	37.2	30.4
177.5°	52.8	50.9	48.4	45.9	44.7	42.2	38.5	34.1	31.7	27.9
180°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3



TEST NUMBER: P893455
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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	12.26	13.57	12.91	14.24	15.01	15.81	17.12	16.45	17.79	18.56
	3H	13.61	14.81	14.27	15.49	16.29	18.73	19.92	19.38	20.60	21.40
	4H	14.02	15.16	14.69	15.84	16.66	20.20	21.34	20.88	22.03	22.84
	6H	14.23	15.30	14.92	15.99	16.82	21.76	22.82	22.45	23.52	24.35
	8H	14.27	15.29	14.96	16.00	16.84	22.57	23.59	23.27	24.31	25.14
	12H	14.27	15.25	14.97	15.96	16.82	23.45	24.42	24.15	25.14	26.00
4H	2H	13.41	14.55	14.08	15.23	16.05	16.13	17.27	16.80	17.96	18.77
	3H	15.05	16.03	15.74	16.75	17.58	19.28	20.26	19.97	20.98	21.81
	4H	15.62	16.52	16.32	17.24	18.11	20.93	21.83	21.63	22.56	23.42
	6H	15.96	16.76	16.68	17.51	18.37	22.70	23.50	23.42	24.25	25.12
	8H	16.03	16.78	16.76	17.53	18.41	23.64	24.39	24.36	25.13	26.02
	12H	16.06	16.74	16.81	17.51	18.40	24.66	25.34	25.40	26.11	27.00
8H	4H	16.70	17.45	17.43	18.20	19.09	21.10	21.86	21.83	22.60	23.49
	6H	17.31	17.95	18.07	18.74	19.63	23.05	23.70	23.81	24.48	25.37
	8H	17.51	18.09	18.27	18.88	19.77	24.14	24.72	24.90	25.50	26.40
	12H	17.62	18.14	18.39	18.92	19.87	25.36	25.87	26.12	26.65	27.61
12H	4H	17.06	17.74	17.81	18.51	19.40	21.10	21.78	21.85	22.55	23.44
	6H	17.84	18.41	18.60	19.20	20.10	23.09	23.67	23.85	24.45	25.35
	8H	18.16	18.68	18.93	19.46	20.42	24.23	24.75	25.00	25.53	26.48