

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: P894192

Luminaire Tested: 4MB-SC3-FLT-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894192
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-SC3-FLT-UNV-CC83-LOW-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3500K CCT, LOW lum setting
Light Source: -
Ballast/Driver: -

Summary

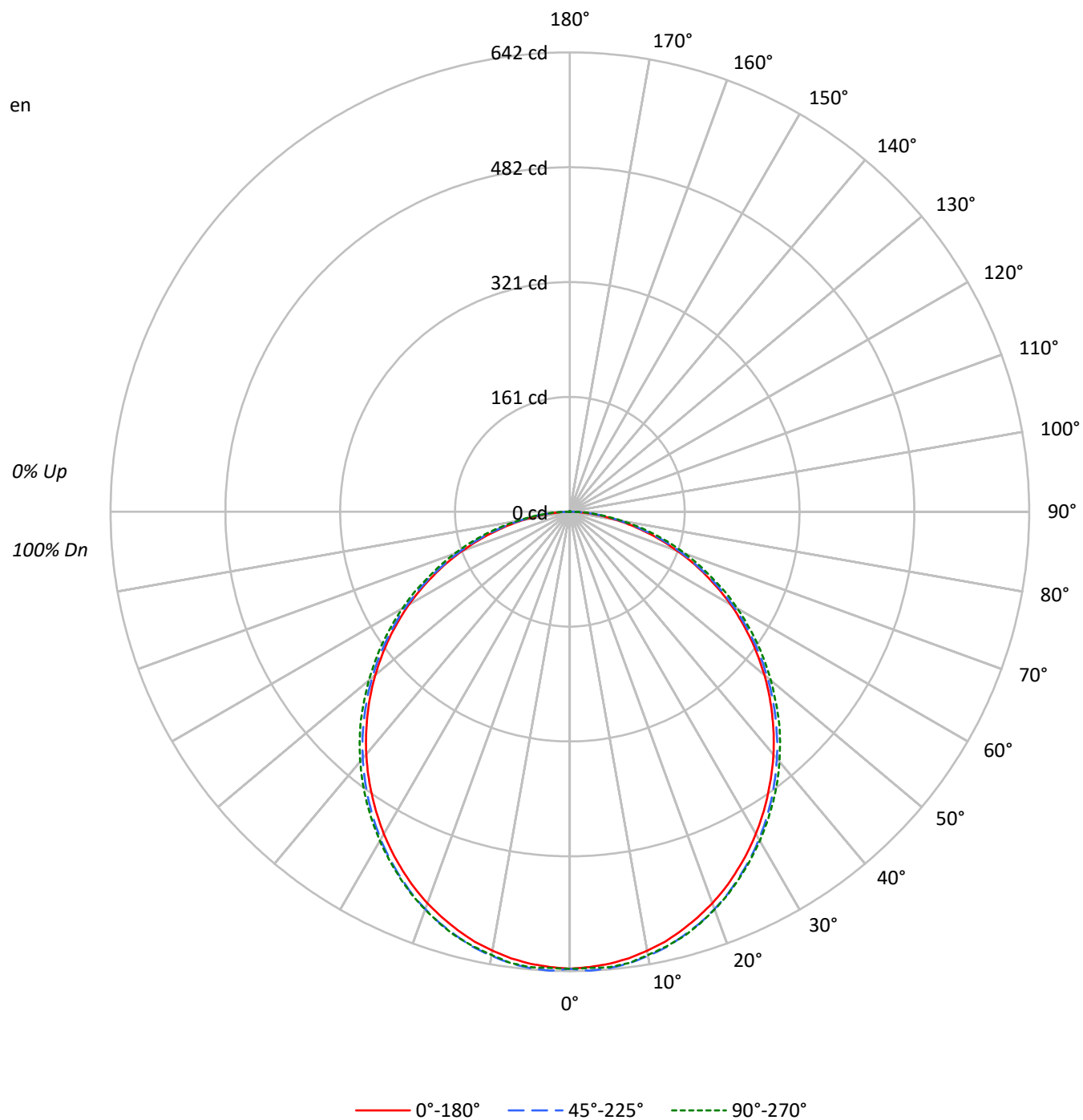
Lumens per Lamp: N/A
Luminaire Lumens: 1773.1 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91		93	91	88		90	88	86	83
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69	65	61	58
4	82	70	62	55	80	69	61	54	66	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36		48	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		44	37	32		42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4544	4544	4544
5°	4528	4572	4562
10°	4500	4554	4544
15°	4460	4519	4526
20°	4407	4475	4479
25°	4342	4412	4423
30°	4271	4344	4364
35°	4191	4265	4301
40°	4113	4182	4234
45°	4023	4088	4159
50°	3928	3990	4062
55°	3822	3880	3962
60°	3700	3760	3846
65°	3534	3604	3700
70°	3326	3424	3580
75°	3060	3189	3392
80°	2700	2913	3065
85°	2327	2669	2865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.4
10°-20°	172.1	9.7
20°-30°	258.0	14.5
30°-40°	307.0	17.3
40°-50°	315.0	17.8
50°-60°	282.2	15.9
60°-70°	214.4	12.1
70°-80°	124.6	7.0
80°-90°	37.4	2.1
90°-100°	0.9	0.1
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°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-30°	490.5	27.7
0°-40°	797.5	45.0
0°-60°	1394.6	78.7
0°-90°	1771.0	99.9
90°-120°	1.1	0.1
90°-150°	1.6	0.1
90°-180°	2.0	0.1
0°-180°	1773.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	634	645	640	637	639	60
15°	606	617	614	612	614	171
25°	553	566	562	561	563	255
35°	482	494	491	492	495	302
45°	400	410	406	410	413	308
55°	308	316	313	316	319	275
65°	210	215	214	218	220	208
75°	111	116	116	120	123	118
85°	28	31	33	35	35	31
90°	0	2	2	3	3	2
95°	0	0	0	1	1	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	1	1	1	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	636.8	635.9	636.8	636.4	641.0	646.7	645.7	641.5	636.8	638.2	642.0
5°	634.0	633.6	635.0	634.0	638.7	644.8	642.9	639.2	635.0	636.4	640.1
7.5°	629.4	629.4	631.2	630.3	634.5	640.6	638.7	635.4	631.2	632.6	636.4
10°	622.8	623.3	625.6	624.2	627.9	634.5	632.6	629.4	625.6	626.5	630.3
12.5°	615.3	615.3	618.1	616.7	620.5	626.5	624.2	621.9	618.1	619.1	623.3
15°	605.5	606.0	609.2	607.8	611.1	617.2	614.9	613.0	609.7	610.2	613.5
17.5°	594.3	595.7	599.0	597.6	600.8	606.9	604.1	602.2	599.4	599.9	603.2
20°	582.1	583.5	586.8	585.9	588.2	594.3	591.5	590.5	587.7	588.2	591.0
22.5°	568.6	570.0	573.7	572.8	575.1	581.2	577.9	577.5	574.6	575.1	577.5
25°	553.1	555.0	559.2	558.3	560.2	565.8	563.0	562.0	560.2	560.2	562.0
27.5°	537.2	539.1	543.8	542.4	543.8	549.9	546.6	546.1	544.3	544.3	546.1
30°	519.9	521.8	527.0	525.6	527.0	532.1	528.8	529.3	527.4	527.4	528.8
32.5°	501.7	503.1	508.7	507.8	508.7	513.9	510.6	511.1	509.2	509.7	510.1
35°	482.5	483.9	490.0	489.1	489.5	494.2	491.9	491.9	490.5	490.0	491.0
37.5°	462.9	464.3	471.8	469.4	469.4	474.1	472.2	472.2	470.8	470.4	470.8
40°	442.8	443.7	451.7	449.3	448.9	453.1	451.7	451.7	450.7	449.8	450.3
42.5°	421.7	423.2	431.1	429.2	427.4	432.0	430.6	431.1	429.7	428.8	428.8
45°	399.8	401.2	409.1	408.2	405.4	409.6	408.2	409.1	407.3	406.3	406.3
47.5°	377.8	379.7	387.1	385.7	382.9	387.1	385.7	386.7	384.8	383.9	383.9
50°	354.9	356.8	364.7	362.4	359.6	363.8	362.8	363.3	361.9	361.0	360.5
52.5°	331.5	333.8	341.3	338.5	336.2	339.9	339.5	339.9	338.1	337.6	337.1
55°	308.1	310.5	317.5	314.2	312.3	315.6	314.7	315.6	313.7	313.3	312.8
57.5°	283.8	286.2	292.7	289.4	288.0	290.8	290.4	290.8	289.4	289.0	288.5
60°	260.0	261.8	267.9	264.6	263.2	266.0	265.1	266.5	264.6	264.6	264.2
62.5°	234.7	237.1	243.1	239.4	238.5	240.8	239.9	241.3	240.3	239.4	238.9
65°	209.9	211.3	217.0	213.7	212.3	215.1	214.6	215.6	214.1	214.6	214.1
67.5°	185.2	186.1	191.7	188.0	187.0	189.8	190.3	189.8	188.9	189.4	188.9
70°	159.9	160.8	165.5	162.2	161.8	164.1	165.1	164.6	163.7	164.1	164.6
72.5°	135.6	136.1	140.3	137.5	137.0	139.8	139.8	139.8	139.8	139.8	140.7
75°	111.3	111.7	115.5	113.2	112.7	115.5	115.5	115.5	115.5	116.4	116.0
77.5°	87.9	87.4	91.2	89.8	88.8	91.6	91.6	92.1	93.0	94.0	92.6
80°	65.9	65.5	68.3	66.4	66.4	69.2	68.7	69.2	70.1	70.6	71.1
82.5°	46.3	45.4	47.7	47.2	46.8	49.1	49.6	49.1	50.5	51.0	51.0
85°	28.5	28.5	29.9	29.0	29.0	30.9	30.9	31.3	32.3	32.7	32.7
87.5°	13.6	13.1	14.5	14.0	13.6	15.0	15.0	15.4	15.9	16.4	15.9
90°	0.5	0.5	0.9	0.9	0.9	1.9	1.9	1.9	2.3	2.3	1.9
92.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
95°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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	0.5

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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	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
132.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
135°	0.0	0.5	0.5	0.5	0.5	0.0	0.5	0.0	0.0	0.0	0.5
137.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
140°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
142.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
145°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
147.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167.5°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5
170°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5
172.5°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5
175°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.9	0.9
177.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	636.4	633.1	631.7	632.6	639.2	632.6	639.6	642.0	633.6	638.2
5°	634.5	631.2	629.4	630.3	636.8	630.8	638.2	641.0	634.0	638.7
7.5°	630.8	627.0	626.1	627.5	633.1	627.9	635.4	638.2	631.2	635.9
10°	625.1	621.9	620.9	622.3	627.5	622.3	628.9	631.2	624.7	628.9
12.5°	618.1	614.9	613.9	615.8	620.5	615.8	622.3	624.7	618.1	622.3
15°	609.2	606.0	605.5	608.3	612.5	608.3	614.9	616.7	610.2	614.4
17.5°	598.5	595.2	595.7	599.0	602.2	598.5	604.6	606.4	600.4	603.6
20°	586.8	583.1	584.0	586.8	589.6	585.9	591.9	593.8	588.2	591.5
22.5°	573.2	569.5	570.4	573.7	575.6	572.3	577.9	579.8	575.1	578.4
25°	558.3	555.0	556.4	559.7	561.1	558.3	563.4	564.8	560.6	563.4
27.5°	543.3	539.6	541.4	544.7	545.7	542.9	548.0	548.9	544.7	547.5
30°	526.5	522.7	525.1	528.8	528.8	527.0	531.2	532.1	528.8	531.2
32.5°	507.8	505.0	507.8	511.1	510.6	509.2	513.4	514.3	511.5	513.4
35°	489.1	486.7	489.5	492.8	492.4	491.0	495.2	495.6	493.3	495.2
37.5°	469.9	468.0	470.8	473.6	472.7	471.8	475.5	475.5	474.1	476.0
40°	450.3	448.4	450.7	454.0	452.1	452.1	454.5	455.4	454.0	455.9
42.5°	429.7	427.8	430.6	433.4	431.6	431.1	433.9	434.4	433.4	434.8
45°	408.2	406.3	409.1	411.5	409.6	409.6	411.9	411.9	411.5	413.3
47.5°	386.2	384.8	387.1	389.5	387.6	389.0	389.0	389.0	390.0	389.5
50°	363.8	362.4	364.2	367.0	364.7	365.2	366.1	366.1	366.6	367.0
52.5°	340.4	338.5	340.4	343.7	340.4	341.8	342.3	342.7	344.1	343.2
55°	317.0	315.1	317.0	319.8	316.5	318.4	318.4	318.9	320.3	319.4
57.5°	292.7	290.8	293.6	295.5	292.2	294.1	294.1	295.0	296.0	294.6
60°	268.4	267.0	267.9	271.2	267.9	269.8	269.8	269.8	271.7	270.3
62.5°	243.6	242.7	243.6	246.4	243.1	245.0	244.5	245.0	246.9	246.4
65°	218.4	217.4	218.4	221.2	217.9	219.8	219.8	220.2	221.6	219.8
67.5°	193.6	192.2	193.6	195.9	193.1	194.5	194.5	194.5	196.8	195.9
70°	168.3	167.4	168.3	170.7	168.3	169.3	169.3	169.3	171.6	172.1
72.5°	143.5	143.5	144.5	146.3	144.5	146.3	144.9	144.0	147.3	147.8
75°	119.2	119.7	120.2	122.0	120.2	122.0	121.1	120.2	123.0	123.4
77.5°	96.8	96.8	97.3	98.7	97.3	98.7	97.7	97.7	99.6	99.1
80°	73.9	73.9	74.3	75.7	74.3	75.7	74.8	74.8	76.7	74.8
82.5°	53.8	53.8	53.8	55.2	54.2	55.2	54.7	53.8	56.1	54.2
85°	34.6	35.1	35.1	35.5	35.1	35.5	35.5	35.1	36.5	35.1
87.5°	17.8	17.8	17.8	18.2	17.8	17.8	18.2	17.8	18.7	18.2
90°	3.3	2.8	2.8	3.7	3.3	3.3	3.7	2.8	3.3	2.8
92.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9
95°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
102.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
105°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5
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	0.5	0.0	0.0	0.0	0.5

TEST NUMBER: P894192

CATALOG NUMBER: 4MB-SC3-FLT-UNV-CC83-LOW-3500K

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	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.5	0.5	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°	0.5	0.5	0.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0
140°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
142.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
145°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
147.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
170°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
172.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
175°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
177.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

TEST NUMBER: P894192

CATALOG NUMBER: 4MB-SC3-FLT-UNV-CC83-LOW-3500K

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	16.77	18.40	17.13	18.72	19.04	16.90	18.54	17.27	18.86	19.17
	3H	18.59	20.07	18.97	20.40	20.76	18.74	20.22	19.11	20.54	20.91
	4H	19.25	20.65	19.65	21.00	21.37	19.44	20.84	19.84	21.19	21.57
	6H	19.70	21.00	20.12	21.36	21.76	20.00	21.29	20.41	21.66	22.05
	8H	19.84	21.08	20.27	21.47	21.87	20.19	21.43	20.62	21.82	22.22
	12H	19.94	21.12	20.37	21.51	21.94	20.34	21.52	20.77	21.91	22.34
4H	2H	17.40	18.79	17.80	19.14	19.52	17.51	18.90	17.91	19.25	19.63
	3H	19.44	20.61	19.85	21.01	21.41	19.58	20.75	19.99	21.15	21.55
	4H	20.23	21.30	20.67	21.71	22.15	20.42	21.48	20.85	21.90	22.33
	6H	20.81	21.74	21.26	22.18	22.64	21.11	22.04	21.57	22.48	22.94
	8H	21.00	21.87	21.46	22.31	22.78	21.36	22.23	21.82	22.67	23.14
	12H	21.14	21.92	21.62	22.40	22.87	21.55	22.33	22.03	22.81	23.28
8H	4H	20.56	21.43	21.02	21.88	22.34	20.73	21.60	21.19	22.04	22.51
	6H	21.27	21.99	21.76	22.48	22.96	21.56	22.28	22.05	22.77	23.25
	8H	21.53	22.18	22.04	22.69	23.18	21.89	22.54	22.40	23.04	23.53
	12H	21.75	22.32	22.25	22.81	23.38	22.17	22.74	22.68	23.24	23.80
12H	4H	20.61	21.39	21.09	21.87	22.34	20.76	21.54	21.24	22.02	22.49
	6H	21.34	21.99	21.85	22.50	22.98	21.61	22.26	22.12	22.77	23.26
	8H	21.66	22.24	22.17	22.73	23.29	22.01	22.58	22.51	23.07	23.64