

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: P893401

Luminaire Tested: 4MB-3SL-FLTU-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-3SL-FLTU-UNV-L830
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 300
Light Source: -
Ballast/Driver: -

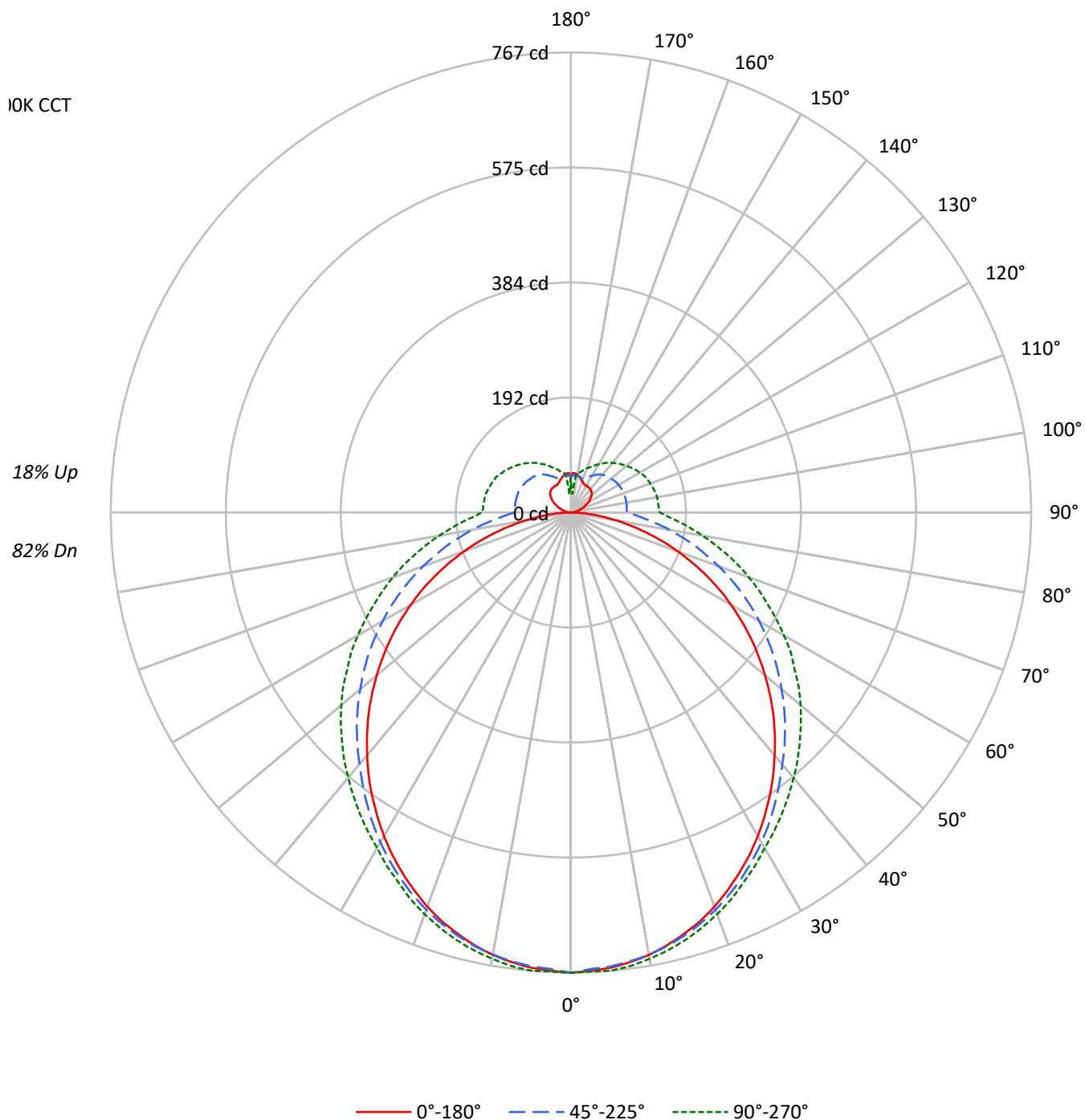
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 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 (Ain): 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: P893401
CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L830

Luminous Intensity Polar Plot



TEST NUMBER: P893401

CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L830

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	115	115	115	115	110	110	110	110	101	101	101		93	93	93		86
1	103	98	93	89	99	94	90	86	86	83	80		79	77	74		73
2	93	85	77	71	89	81	75	69	75	69	65		69	64	61		63
3	85	74	65	59	81	71	63	57	65	59	54		60	55	51		55
4	77	65	56	49	74	63	54	48	58	51	45		53	48	43		49
5	71	58	49	42	68	56	47	41	52	45	39		48	42	37		44
6	66	52	43	37	62	50	42	36	47	39	34		43	37	32		40
7	61	47	38	32	58	45	37	31	42	35	30		39	33	29		37
8	56	43	34	29	54	41	33	28	39	32	27		36	30	26		34
9	53	39	31	26	50	38	30	25	35	29	24		33	27	23		31
10	49	36	28	23	47	35	28	23	33	26	22		31	25	21		29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5460	5460	5460
5°	5416	5232	5225
10°	5363	5030	4977
15°	5284	4829	4740
20°	5197	4624	4499
25°	5085	4409	4255
30°	4968	4189	4032
35°	4838	3970	3849
40°	4701	3753	3674
45°	4563	3564	3508
50°	4403	3369	3346
55°	4230	3177	3165
60°	4022	2971	2993
65°	3776	2755	2799
70°	3454	2517	2619
75°	3013	2273	2423
80°	2436	2014	2223
85°	1680	1749	2040

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4563 cd/sqm

TEST NUMBER: P893401

CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	2.5
10°-20°	207.0	7.1
20°-30°	311.0	10.7
30°-40°	373.4	12.9
40°-50°	392.6	13.5
50°-60°	368.9	12.7
60°-70°	306.7	10.6
70°-80°	218.9	7.5
80°-90°	130.3	4.5
90°-100°	94.3	3.3
100°-110°	93.1	3.2
110°-120°	87.4	3.0
120°-130°	77.4	2.7
130°-140°	64.2	2.2
140°-150°	48.1	1.7
150°-160°	31.6	1.1
160°-170°	17.9	0.6
170°-180°	5.7	0.2
0°-30°	590.5	20.4
0°-40°	963.9	33.2
0°-60°	1725.4	59.5
0°-90°	2381.3	82.1
90°-120°	274.8	9.5
90°-150°	464.5	16.0
90°-180°	520.0	17.9
0°-180°	2901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	762	771	760	762	767	72
15°	727	739	730	735	738	205
25°	664	676	673	679	680	306
35°	577	591	593	608	613	361
45°	477	491	505	530	540	368
55°	366	381	411	445	455	327
65°	250	270	313	352	362	247
75°	131	160	214	255	268	139
85°	33	72	125	168	182	36
90°	0	41	93	134	148	2
95°	4	43	93	132	146	4
105°	13	48	94	131	144	14
115°	26	53	93	125	138	26
125°	39	56	90	118	127	35
135°	48	59	86	107	115	37
145°	51	58	77	95	101	32
155°	52	58	65	81	86	24
165°	60	63	61	62	72	17
175°	66	65	62	53	32	6
180°	58	58	58	58	58	

TEST NUMBER: P893401

CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L830

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4
2.5°	764.6	766.7	767.4	774.4	771.6	774.4	769.5	763.9	762.5	766.0	761.8
5°	761.8	763.9	764.6	771.6	768.8	770.9	766.7	761.1	759.7	763.9	759.7
7.5°	756.2	758.3	759.0	766.7	763.2	766.0	761.1	755.5	754.7	759.0	754.7
10°	749.1	751.2	751.9	759.0	756.2	759.0	754.0	748.4	747.7	752.6	748.4
12.5°	739.3	741.4	742.8	749.8	746.3	749.8	744.2	738.6	739.3	743.5	740.7
15°	727.4	730.2	730.9	737.9	735.1	738.6	733.0	727.4	728.8	733.0	730.2
17.5°	714.8	717.6	718.3	724.6	721.8	726.0	719.7	714.8	716.2	720.4	718.3
20°	699.4	702.2	703.6	709.9	707.1	711.3	705.0	700.8	702.2	707.1	705.0
22.5°	681.9	686.1	686.8	693.8	690.3	694.5	688.2	684.7	686.8	691.7	689.6
25°	663.6	667.9	668.6	675.6	672.8	676.3	670.0	666.5	669.3	674.2	672.8
27.5°	644.0	648.2	649.6	655.9	653.1	657.3	650.3	648.2	651.0	655.9	654.5
30°	623.0	627.2	627.9	634.2	632.1	636.3	630.0	627.2	631.4	636.3	634.9
32.5°	600.6	604.8	606.9	612.5	610.4	613.9	608.3	606.9	610.4	615.3	614.6
35°	577.4	581.7	583.8	590.1	587.3	590.8	585.2	583.8	589.4	592.9	592.9
37.5°	553.6	557.8	559.9	566.2	562.7	566.9	561.3	560.6	566.9	570.4	570.4
40°	528.4	533.3	535.4	541.0	538.2	541.7	536.8	537.5	543.1	547.3	548.0
42.5°	503.2	508.1	510.2	516.5	513.0	516.5	512.3	513.0	519.3	523.5	527.0
45°	477.2	481.4	483.5	490.6	486.3	490.6	486.3	487.7	494.1	500.4	504.6
47.5°	449.9	454.1	457.6	463.2	459.7	463.2	460.4	462.5	470.2	476.5	482.1
50°	422.6	426.8	430.3	435.2	431.7	436.6	433.1	435.9	445.7	452.0	458.3
52.5°	394.5	398.0	403.7	406.5	403.7	409.3	406.5	410.7	420.5	428.2	435.2
55°	366.5	370.0	375.6	377.7	374.9	381.2	379.1	384.7	395.2	403.7	411.4
57.5°	337.8	341.3	346.2	348.3	346.2	353.2	352.5	358.8	369.3	378.4	386.8
60°	308.3	311.9	316.1	318.2	318.2	325.2	325.2	332.9	344.1	352.5	362.3
62.5°	279.6	281.7	285.9	288.7	290.8	297.8	297.8	306.2	318.2	328.0	337.8
65°	249.5	251.6	255.1	258.6	262.1	269.8	270.5	279.6	291.5	301.3	312.6
67.5°	219.3	221.4	225.0	229.2	234.1	241.8	243.2	253.0	265.6	276.8	287.3
70°	189.9	190.6	194.8	200.4	206.0	213.7	215.8	226.4	239.7	250.9	262.1
72.5°	160.5	161.2	165.4	172.4	178.7	187.1	189.9	201.1	214.4	225.7	236.9
75°	131.0	131.7	137.4	145.8	152.8	160.5	164.0	175.9	189.2	201.1	213.7
77.5°	103.0	104.4	110.0	118.4	126.8	136.0	139.5	151.4	166.1	177.3	189.2
80°	77.1	78.5	84.8	93.9	103.0	111.4	115.6	127.5	143.0	154.2	167.5
82.5°	53.3	55.4	63.1	72.9	82.0	91.1	95.3	106.5	120.5	133.1	145.8
85°	32.9	35.7	43.4	54.0	63.8	72.2	76.4	88.3	101.6	113.5	125.4
87.5°	15.4	19.6	27.3	37.8	48.4	55.4	60.3	72.2	84.8	96.7	108.6
90°	0.0	6.3	14.0	24.5	35.0	41.3	47.0	58.2	70.8	82.0	93.2
92.5°	1.4	7.0	15.4	25.2	35.7	42.0	47.7	58.9	70.8	82.0	93.2
95°	3.5	7.7	16.1	26.6	37.1	43.4	48.4	59.6	71.5	82.7	93.2
97.5°	6.3	9.8	18.2	28.0	38.5	44.1	49.8	61.0	72.2	83.4	93.9
100°	8.4	11.2	19.6	29.4	39.9	45.6	51.2	61.7	72.9	84.1	93.9
102.5°	10.5	14.0	21.7	30.8	41.3	47.0	51.9	62.4	73.6	84.1	93.9
105°	13.3	16.1	23.1	32.9	42.7	48.4	53.3	63.8	74.3	84.8	93.9
107.5°	16.1	18.2	25.2	34.3	44.1	49.1	54.0	64.5	75.0	84.8	93.9
110°	19.6	21.0	27.3	35.7	44.9	50.5	55.4	65.2	75.0	84.8	93.9

TEST NUMBER: P893401

CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L830

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	23.1	23.1	29.4	37.1	46.3	51.2	56.1	65.9	75.7	84.8	93.9
115°	25.9	26.6	31.5	38.5	47.7	52.6	56.8	65.9	75.7	84.8	93.2
117.5°	29.4	29.4	34.3	39.9	48.4	53.3	58.2	66.6	75.7	84.1	92.5
120°	32.9	32.2	36.4	42.0	49.8	54.0	58.9	67.3	75.7	84.1	91.8
122.5°	36.4	35.0	37.8	43.4	50.5	55.4	58.9	67.3	75.7	83.4	91.1
125°	39.2	37.8	39.9	45.6	51.9	56.1	59.6	67.3	75.7	82.7	90.4
127.5°	42.0	40.6	42.7	47.0	52.6	56.1	60.3	67.3	75.7	82.0	89.0
130°	44.9	42.7	45.6	48.4	54.0	56.8	60.3	67.3	75.0	81.3	87.6
132.5°	47.0	44.9	47.7	49.8	54.7	57.5	61.0	67.3	74.3	80.6	86.9
135°	48.4	46.3	49.8	51.2	56.1	58.9	61.7	67.3	73.6	79.9	85.5
137.5°	49.8	47.0	51.2	52.6	56.8	59.6	61.7	66.6	72.9	78.5	84.1
140°	50.5	48.4	52.6	54.0	56.1	58.9	61.7	65.9	71.5	77.1	82.0
142.5°	51.2	48.4	53.3	54.7	56.1	58.2	61.0	64.5	70.1	75.0	79.9
145°	51.2	49.1	53.3	54.7	56.1	57.5	59.6	63.8	68.0	72.2	77.1
147.5°	51.2	49.8	54.0	55.4	56.8	56.8	58.2	62.4	65.9	70.1	74.3
150°	51.9	49.8	54.0	55.4	57.5	57.5	58.2	60.3	64.5	67.3	70.8
152.5°	51.2	50.5	53.3	56.1	57.5	58.2	58.2	58.9	62.4	65.2	68.0
155°	51.9	51.9	54.0	57.5	58.2	58.2	58.9	58.2	59.6	62.4	65.2
157.5°	53.3	54.7	54.7	58.2	59.6	59.6	60.3	59.6	58.9	59.6	62.4
160°	55.4	56.8	56.8	58.9	61.0	61.0	61.7	61.0	60.3	59.6	59.6
162.5°	57.5	58.9	58.9	59.6	61.7	62.4	63.1	62.4	61.7	60.3	59.6
165°	59.6	61.0	61.0	61.0	62.4	63.1	63.8	63.1	63.1	61.7	61.0
167.5°	61.7	63.1	63.1	62.4	63.1	63.8	64.5	63.8	63.8	63.1	61.7
170°	63.8	65.2	65.2	63.8	64.5	64.5	65.2	64.5	64.5	63.1	62.4
172.5°	65.2	66.6	65.9	65.2	65.2	65.2	65.2	64.5	63.8	62.4	62.4
175°	65.9	67.3	67.3	65.9	65.2	65.2	65.9	64.5	63.8	63.1	61.7
177.5°	65.9	67.3	67.3	65.9	65.2	65.2	65.9	65.2	65.2	63.8	62.4
180°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5

TEST NUMBER: P893401

CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L830

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4	767.4
2.5°	764.6	763.9	759.7	764.6	764.6	763.2	768.8	768.1	767.4	766.0
5°	761.8	761.1	756.9	761.8	761.8	761.1	766.7	767.4	768.1	766.7
7.5°	757.6	756.9	752.6	757.6	757.6	756.9	763.2	763.9	764.6	762.5
10°	751.2	750.5	746.3	751.2	751.9	751.2	756.2	756.9	758.3	755.5
12.5°	742.8	742.8	738.6	743.5	744.2	743.5	748.4	749.8	751.2	747.7
15°	732.3	733.0	729.5	734.4	735.1	735.1	740.0	740.7	742.8	737.9
17.5°	719.7	721.1	718.3	723.2	723.9	724.6	727.4	729.5	731.6	726.0
20°	706.4	707.1	705.0	709.2	710.6	709.9	713.4	716.2	718.3	712.7
22.5°	690.3	691.0	688.9	693.1	694.5	695.2	698.0	701.5	702.9	698.0
25°	672.1	674.9	673.5	677.7	679.1	679.1	681.9	685.4	687.5	680.5
27.5°	654.5	658.0	656.6	660.8	662.2	662.9	664.3	668.6	670.7	664.3
30°	634.9	639.1	638.4	642.6	644.0	643.3	646.1	650.3	653.1	646.1
32.5°	613.2	618.8	618.1	623.7	625.1	625.8	627.9	633.5	636.3	630.0
35°	592.2	598.5	599.2	605.5	607.6	608.3	611.1	616.7	619.5	613.2
37.5°	570.4	578.9	581.0	587.3	589.4	590.1	592.9	599.2	602.0	595.7
40°	549.4	559.2	562.0	567.6	569.7	571.8	573.9	580.3	583.8	577.4
42.5°	528.4	538.9	542.4	548.0	550.1	552.2	555.0	562.0	564.8	559.2
45°	506.7	517.9	522.1	527.7	530.5	532.6	535.4	541.7	545.2	539.6
47.5°	484.9	496.2	500.4	506.7	509.5	512.3	514.4	522.1	525.6	520.0
50°	461.8	474.4	479.3	484.9	489.2	491.3	494.1	501.1	504.6	499.7
52.5°	438.7	452.0	457.6	463.2	467.4	470.9	472.3	480.0	483.5	478.6
55°	414.9	428.2	434.5	440.8	445.0	449.2	450.6	458.3	461.8	454.8
57.5°	391.0	405.1	411.4	418.4	421.9	426.8	428.9	435.9	439.4	434.5
60°	367.2	380.5	388.2	394.5	399.4	403.7	405.1	412.8	416.3	410.0
62.5°	342.7	356.7	364.4	371.4	375.6	380.5	382.6	389.6	392.4	386.1
65°	317.5	331.5	339.9	346.2	351.8	356.0	357.4	365.1	367.9	361.6
67.5°	292.2	306.2	315.4	322.4	327.3	332.2	333.6	341.3	344.1	339.2
70°	267.7	281.7	290.8	299.2	302.7	307.6	309.7	316.8	319.6	315.4
72.5°	243.2	257.2	267.0	275.4	278.9	283.8	286.6	292.2	296.4	292.9
75°	219.3	233.4	243.2	251.6	255.1	260.0	262.8	268.4	271.2	268.4
77.5°	196.2	210.2	219.3	227.8	232.0	236.2	239.0	244.6	248.1	245.3
80°	173.8	187.8	196.9	204.6	208.8	213.0	215.8	222.2	225.0	222.9
82.5°	152.8	166.1	175.9	183.6	187.8	192.0	194.8	200.4	203.9	201.1
85°	133.9	147.2	156.3	164.0	167.5	171.7	174.5	180.1	182.9	181.5
87.5°	115.6	127.5	138.1	145.8	149.3	153.5	157.0	161.2	164.7	162.6
90°	101.6	112.1	121.9	129.6	133.9	138.1	142.3	146.5	149.3	147.9
92.5°	102.3	112.1	121.2	128.2	132.4	136.7	140.9	145.8	147.9	146.5
95°	102.3	112.1	121.2	128.2	132.4	136.7	140.9	145.8	147.9	146.5
97.5°	102.3	112.1	121.2	128.2	132.4	136.7	140.9	145.8	147.9	145.8
100°	102.3	112.1	121.2	128.2	132.4	136.0	140.2	145.1	147.2	145.8
102.5°	102.3	112.1	120.5	127.5	131.7	135.3	139.5	144.4	146.5	145.1
105°	102.3	111.4	120.5	126.8	131.0	134.6	138.8	143.0	145.1	143.7
107.5°	101.6	110.7	119.1	126.1	129.6	133.1	137.4	141.6	143.7	142.3
110°	101.6	110.0	118.4	124.7	128.2	131.7	136.0	140.2	142.3	140.9

TEST NUMBER: P893401

CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L830

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	100.9	109.3	117.7	123.3	126.8	130.3	133.9	138.8	140.9	139.5
115°	100.2	108.6	116.3	121.9	125.4	128.2	132.4	137.4	138.8	138.1
117.5°	99.5	107.2	114.9	120.5	124.0	126.8	130.3	134.6	136.7	136.0
120°	98.8	105.8	113.5	118.4	121.9	124.7	127.5	131.7	133.9	132.4
122.5°	97.4	104.4	112.1	117.0	119.8	122.6	125.4	128.9	131.0	130.3
125°	96.0	103.0	110.0	114.9	117.7	119.8	122.6	126.1	127.5	126.8
127.5°	94.6	101.6	107.9	112.1	115.6	117.7	119.8	123.3	124.7	124.0
130°	93.2	99.5	105.8	110.0	112.8	114.9	117.0	120.5	121.2	121.2
132.5°	91.8	97.4	103.7	107.9	110.7	112.1	114.2	117.0	118.4	117.7
135°	90.4	95.3	101.6	105.1	107.2	109.3	111.4	114.2	114.9	114.9
137.5°	88.3	93.2	98.8	102.3	104.4	105.8	107.9	110.7	111.4	111.4
140°	86.2	91.1	96.0	98.8	101.6	103.0	104.4	107.2	107.9	107.9
142.5°	84.1	88.3	93.2	96.0	98.8	99.5	101.6	103.7	104.4	104.4
145°	81.3	86.2	90.4	93.2	95.3	96.0	98.1	100.2	100.2	100.9
147.5°	77.8	82.0	87.6	89.7	91.8	92.5	94.6	96.0	96.7	96.7
150°	74.3	78.5	83.4	86.9	89.0	89.7	90.4	92.5	92.5	93.2
152.5°	70.8	74.3	79.2	82.7	85.5	86.2	86.9	88.3	88.3	89.0
155°	67.3	70.1	74.3	77.8	80.6	82.0	83.4	84.8	84.8	85.5
157.5°	64.5	67.3	70.8	73.6	75.7	77.8	79.9	81.3	81.3	81.3
160°	61.0	63.1	66.6	68.7	71.5	72.9	76.4	77.8	77.8	78.5
162.5°	58.9	59.6	61.7	63.8	65.9	67.3	70.8	74.3	74.3	75.0
165°	59.6	58.9	59.6	60.3	61.7	62.4	64.5	69.4	70.8	71.5
167.5°	61.0	58.9	58.9	58.9	60.3	60.3	62.4	65.2	70.1	68.7
170°	61.0	58.9	57.5	57.5	58.2	57.5	58.9	61.0	63.8	66.6
172.5°	61.7	59.6	57.5	54.7	55.4	54.7	53.3	53.3	54.0	63.1
175°	61.0	59.6	56.8	53.3	52.6	50.5	46.3	42.7	40.6	31.5
177.5°	60.3	58.2	56.1	53.3	51.9	49.8	44.9	39.2	33.6	32.2
180°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5

TEST NUMBER: P893401
CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L830

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	13.58	14.90	14.20	15.53	16.25	16.13	17.45	16.75	18.08	18.81
	3H	14.99	16.19	15.61	16.83	17.58	18.56	19.76	19.19	20.40	21.16
	4H	15.41	16.55	16.06	17.21	17.98	19.70	20.84	20.35	21.49	22.26
	6H	15.65	16.71	16.31	17.37	18.16	20.84	21.90	21.50	22.56	23.35
	8H	15.69	16.71	16.37	17.39	18.18	21.40	22.41	22.07	23.10	23.88
	12H	15.71	16.67	16.38	17.35	18.17	21.98	22.95	22.66	23.63	24.45
4H	2H	14.47	15.61	15.12	16.26	17.03	16.48	17.62	17.13	18.27	19.04
	3H	16.09	17.06	16.76	17.75	18.54	19.11	20.08	19.78	20.77	21.56
	4H	16.65	17.54	17.33	18.23	19.05	20.40	21.29	21.08	21.98	22.80
	6H	16.99	17.77	17.69	18.49	19.32	21.71	22.49	22.41	23.21	24.04
	8H	17.06	17.80	17.77	18.52	19.36	22.37	23.10	23.07	23.82	24.66
	12H	17.09	17.76	17.82	18.50	19.35	23.07	23.74	23.80	24.48	25.32
8H	4H	17.30	18.03	18.00	18.75	19.59	20.55	21.29	21.26	22.01	22.85
	6H	17.80	18.42	18.54	19.18	20.02	22.01	22.63	22.74	23.39	24.23
	8H	17.96	18.51	18.70	19.28	20.13	22.79	23.34	23.53	24.11	24.96
	12H	18.05	18.54	18.80	19.30	20.21	23.65	24.15	24.40	24.90	25.81
12H	4H	17.46	18.13	18.19	18.87	19.72	20.55	21.21	21.27	21.95	22.80
	6H	18.06	18.62	18.80	19.38	20.24	22.03	22.58	22.77	23.35	24.20
	8H	18.29	18.79	19.04	19.54	20.46	22.86	23.35	23.61	24.11	25.02