

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: P893512

Luminaire Tested: 4MB-4SL-FLT-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893512
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-4SL-FLT-UNV-L950
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

Summary

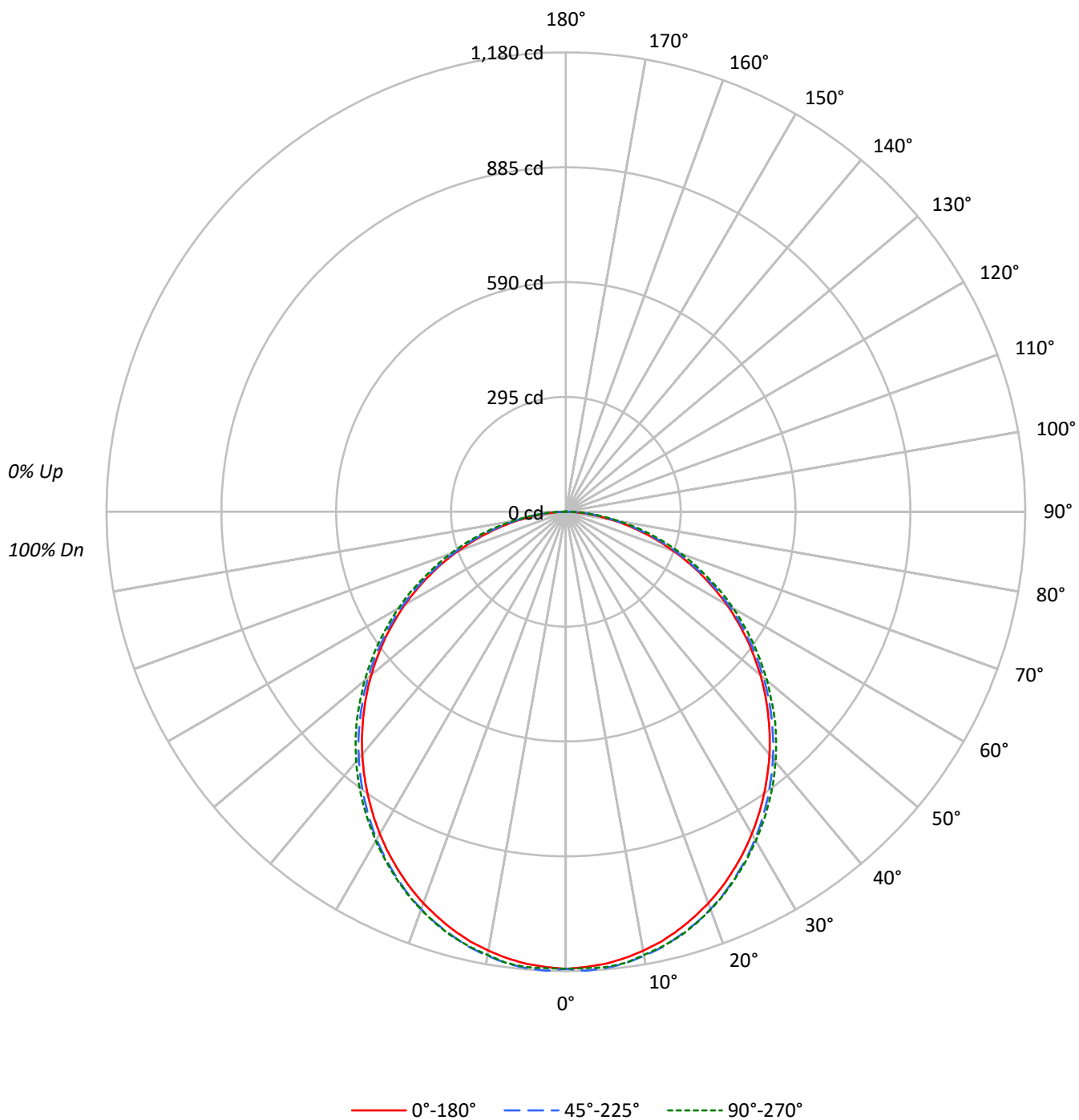
Lumens per Lamp: N/A
Luminaire Lumens: 3259.1 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.5
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 4MB-4SL-FLT-UNV-L950

Luminous Intensity Polar Plot



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CATALOG NUMBER: 4MB-4SL-FLT-UNV-L950

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°	8353	8353	8353
5°	8323	8403	8385
10°	8271	8370	8352
15°	8198	8306	8318
20°	8102	8226	8232
25°	7982	8110	8130
30°	7852	7986	8021
35°	7704	7838	7906
40°	7559	7688	7783
45°	7394	7515	7645
50°	7220	7334	7468
55°	7026	7133	7282
60°	6801	6910	7069
65°	6497	6626	6800
70°	6114	6293	6580
75°	5625	5858	6238
80°	4966	5351	5634
85°	4278	4914	5265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7645 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.4
10°-20°	316.4	9.7
20°-30°	474.2	14.5
30°-40°	564.2	17.3
40°-50°	578.9	17.8
50°-60°	518.7	15.9
60°-70°	394.1	12.1
70°-80°	229.0	7.0
80°-90°	68.7	2.1
90°-100°	1.6	0.1
100°-110°	0.3	0.0
110°-120°	0.0	0.0
120°-130°	0.1	0.0
130°-140°	0.4	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	901.6	27.7
0°-40°	1465.9	45.0
0°-60°	2563.4	78.7
0°-90°	3255.3	99.9
90°-120°	2.0	0.1
90°-150°	3.0	0.1
90°-180°	4.0	0.1
0°-180°	3259.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1165	1185	1177	1171	1174	111
15°	1113	1134	1128	1126	1129	314
25°	1017	1040	1033	1031	1036	469
35°	887	908	902	905	910	555
45°	735	753	747	753	760	567
55°	566	580	575	582	587	506
65°	386	395	394	400	404	382
75°	205	212	213	221	227	217
85°	52	57	60	64	64	57
90°	1	3	3	6	5	4
95°	0	1	1	2	3	0
105°	0	0	0	1	1	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	1	0	0	0
145°	1	1	1	1	1	1
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	2	2	2	1	1	0
180°	1	1	1	1	1	

TEST NUMBER: P893512

CATALOG NUMBER: 4MB-4SL-FLT-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0
2.5°	1170.6	1168.9	1170.6	1169.7	1178.3	1188.6	1186.9	1179.2	1170.6	1173.2	1180.0
5°	1165.4	1164.6	1167.1	1165.4	1174.0	1185.2	1181.8	1174.9	1167.1	1169.7	1176.6
7.5°	1156.8	1156.8	1160.3	1158.5	1166.3	1177.5	1174.0	1168.0	1160.3	1162.8	1169.7
10°	1144.8	1145.7	1150.0	1147.4	1154.2	1166.3	1162.8	1156.8	1150.0	1151.7	1158.5
12.5°	1131.0	1131.0	1136.2	1133.6	1140.5	1151.7	1147.4	1143.1	1136.2	1137.9	1145.7
15°	1113.0	1113.9	1119.9	1117.3	1123.3	1134.5	1130.2	1126.7	1120.7	1121.6	1127.6
17.5°	1092.4	1094.9	1101.0	1098.4	1104.4	1115.6	1110.4	1107.0	1101.8	1102.7	1108.7
20°	1070.0	1072.6	1078.6	1076.9	1081.2	1092.4	1087.2	1085.5	1080.3	1081.2	1086.4
22.5°	1045.1	1047.7	1054.6	1052.8	1057.1	1068.3	1062.3	1061.4	1056.3	1057.1	1061.4
25°	1016.7	1020.2	1027.9	1026.2	1029.6	1039.9	1034.8	1033.1	1029.6	1029.6	1033.1
27.5°	987.5	991.0	999.5	997.0	999.5	1010.7	1004.7	1003.8	1000.4	1000.4	1003.8
30°	955.7	959.2	968.6	966.0	968.6	978.1	972.0	972.9	969.5	969.5	972.0
32.5°	922.2	924.8	935.1	933.4	935.1	944.5	938.5	939.4	935.9	936.8	937.7
35°	887.0	889.5	900.7	899.0	899.9	908.4	904.1	904.1	901.6	900.7	902.4
37.5°	850.9	853.4	867.2	862.9	862.9	871.5	868.1	868.1	865.5	864.6	865.5
40°	813.9	815.6	830.2	825.9	825.1	832.8	830.2	830.2	828.5	826.8	827.7
42.5°	775.2	777.8	792.4	789.0	785.5	794.1	791.6	792.4	789.8	788.1	788.1
45°	734.8	737.4	752.0	750.3	745.1	752.9	750.3	752.0	748.6	746.9	746.9
47.5°	694.4	697.9	711.6	709.1	703.9	711.6	709.1	710.8	707.3	705.6	705.6
50°	652.3	655.8	670.4	666.1	660.9	668.7	666.9	667.8	665.2	663.5	662.6
52.5°	609.4	613.7	627.4	622.2	617.9	624.8	624.0	624.8	621.4	620.5	619.7
55°	566.4	570.7	583.6	577.6	574.1	580.1	578.4	580.1	576.7	575.8	575.0
57.5°	521.7	526.0	538.0	532.0	529.4	534.6	533.7	534.6	532.0	531.1	530.3
60°	477.9	481.3	492.5	486.5	483.9	489.0	487.3	489.9	486.5	486.5	485.6
62.5°	431.4	435.7	446.9	440.0	438.3	442.6	440.9	443.5	441.8	440.0	439.2
65°	385.9	388.5	398.8	392.8	390.2	395.3	394.5	396.2	393.6	394.5	393.6
67.5°	340.3	342.1	352.4	345.5	343.8	348.9	349.8	348.9	347.2	348.1	347.2
70°	293.9	295.7	304.2	298.2	297.4	301.7	303.4	302.5	300.8	301.7	302.5
72.5°	249.2	250.1	257.8	252.7	251.8	257.0	257.0	257.0	257.0	257.0	258.7
75°	204.6	205.4	212.3	208.0	207.1	212.3	212.3	212.3	212.3	214.0	213.1
77.5°	161.6	160.7	167.6	165.0	163.3	168.5	168.5	169.3	171.0	172.8	170.2
80°	121.2	120.3	125.5	122.0	122.0	127.2	126.3	127.2	128.9	129.8	130.6
82.5°	85.1	83.4	87.7	86.8	85.9	90.2	91.1	90.2	92.8	93.7	93.7
85°	52.4	52.4	55.0	53.3	53.3	56.7	56.7	57.6	59.3	60.2	60.2
87.5°	24.9	24.1	26.6	25.8	24.9	27.5	27.5	28.4	29.2	30.1	29.2
90°	0.9	0.9	1.7	1.7	1.7	3.4	3.4	3.4	4.3	4.3	3.4
92.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7
95°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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	0.9

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CATALOG NUMBER: 4MB-4SL-FLT-UNV-L950

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	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9
132.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
135°	0.0	0.9	0.9	0.9	0.9	0.0	0.9	0.0	0.0	0.0	0.9
137.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
140°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
142.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
145°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
147.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
150°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9
170°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9
172.5°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9
175°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.9	1.7	1.7
177.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0
2.5°	1169.7	1163.7	1161.1	1162.8	1174.9	1162.8	1175.7	1180.0	1164.6	1173.2
5°	1166.3	1160.3	1156.8	1158.5	1170.6	1159.4	1173.2	1178.3	1165.4	1174.0
7.5°	1159.4	1152.5	1150.8	1153.4	1163.7	1154.2	1168.0	1173.2	1160.3	1168.9
10°	1149.1	1143.1	1141.4	1143.9	1153.4	1143.9	1156.0	1160.3	1148.2	1156.0
12.5°	1136.2	1130.2	1128.5	1131.9	1140.5	1131.9	1143.9	1148.2	1136.2	1143.9
15°	1119.9	1113.9	1113.0	1118.2	1125.9	1118.2	1130.2	1133.6	1121.6	1129.3
17.5°	1100.1	1094.1	1094.9	1101.0	1107.0	1100.1	1111.3	1114.7	1103.5	1109.6
20°	1078.6	1071.7	1073.5	1078.6	1083.8	1076.9	1088.1	1091.5	1081.2	1087.2
22.5°	1053.7	1046.8	1048.5	1054.6	1058.0	1052.0	1062.3	1065.7	1057.1	1063.1
25°	1026.2	1020.2	1022.8	1028.8	1031.3	1026.2	1035.6	1038.2	1030.5	1035.6
27.5°	998.7	991.8	995.2	1001.3	1003.0	997.8	1007.3	1009.0	1001.3	1006.4
30°	967.7	960.9	965.2	972.0	972.0	968.6	976.3	978.1	972.0	976.3
32.5°	933.4	928.2	933.4	939.4	938.5	935.9	943.7	945.4	940.2	943.7
35°	899.0	894.7	899.9	905.9	905.0	902.4	910.2	911.0	906.7	910.2
37.5°	863.8	860.3	865.5	870.6	868.9	867.2	874.1	874.1	871.5	874.9
40°	827.7	824.2	828.5	834.5	831.1	831.1	835.4	837.1	834.5	838.0
42.5°	789.8	786.4	791.6	796.7	793.3	792.4	797.6	798.4	796.7	799.3
45°	750.3	746.9	752.0	756.3	752.9	752.9	757.2	757.2	756.3	759.8
47.5°	709.9	707.3	711.6	715.9	712.5	715.1	715.1	715.1	716.8	715.9
50°	668.7	666.1	669.5	674.7	670.4	671.2	673.0	673.0	673.8	674.7
52.5°	625.7	622.2	625.7	631.7	625.7	628.3	629.1	630.0	632.6	630.8
55°	582.7	579.3	582.7	587.9	581.9	585.3	585.3	586.1	588.7	587.0
57.5°	538.0	534.6	539.7	543.2	537.2	540.6	540.6	542.3	544.0	541.5
60°	493.3	490.7	492.5	498.5	492.5	495.9	495.9	495.9	499.3	496.8
62.5°	447.8	446.1	447.8	452.9	446.9	450.4	449.5	450.4	453.8	452.9
65°	401.4	399.6	401.4	406.5	400.5	403.9	403.9	404.8	407.4	403.9
67.5°	355.8	353.2	355.8	360.1	355.0	357.5	357.5	357.5	361.8	360.1
70°	309.4	307.7	309.4	313.7	309.4	311.1	311.1	311.1	315.4	316.3
72.5°	263.9	263.9	265.6	269.0	265.6	269.0	266.4	264.7	270.7	271.6
75°	219.2	220.0	220.9	224.3	220.9	224.3	222.6	220.9	226.0	226.9
77.5°	177.9	177.9	178.8	181.3	178.8	181.3	179.6	179.6	183.1	182.2
80°	135.8	135.8	136.7	139.2	136.7	139.2	137.5	137.5	141.0	137.5
82.5°	98.8	98.8	98.8	101.4	99.7	101.4	100.6	98.8	103.1	99.7
85°	63.6	64.5	64.5	65.3	64.5	65.3	65.3	64.5	67.0	64.5
87.5°	32.7	32.7	32.7	33.5	32.7	32.7	33.5	32.7	34.4	33.5
90°	6.0	5.2	5.2	6.9	6.0	6.0	6.9	5.2	6.0	5.2
92.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.4	3.4
95°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6
97.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
100°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
102.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
105°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	0.9
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	0.9	0.0	0.0	0.0	0.9

TEST NUMBER: P893512

CATALOG NUMBER: 4MB-4SL-FLT-UNV-L950

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	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.9	0.9	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°	0.9	0.9	0.9	0.9	0.0	0.9	0.0	0.0	0.0	0.0
140°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
142.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
145°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
147.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
150°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
170°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
172.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
175°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

TEST NUMBER: P893512

CATALOG NUMBER: 4MB-4SL-FLT-UNV-L950

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	18.88	20.52	19.25	20.83	21.15	19.02	20.65	19.38	20.97	21.29
	3H	20.70	22.19	21.08	22.51	22.88	20.85	22.33	21.23	22.66	23.02
	4H	21.37	22.76	21.76	23.11	23.49	21.56	22.95	21.96	23.30	23.68
	6H	21.82	23.11	22.23	23.48	23.87	22.11	23.41	22.53	23.78	24.17
	8H	21.96	23.19	22.38	23.58	23.99	22.31	23.55	22.74	23.94	24.34
	12H	22.05	23.24	22.48	23.62	24.05	22.45	23.64	22.88	24.02	24.45
4H	2H	19.52	20.91	19.92	21.26	21.64	19.62	21.02	20.02	21.37	21.75
	3H	21.56	22.73	21.97	23.13	23.53	21.69	22.86	22.10	23.26	23.66
	4H	22.35	23.41	22.78	23.83	24.26	22.53	23.60	22.97	24.01	24.45
	6H	22.92	23.85	23.38	24.30	24.75	23.23	24.16	23.68	24.60	25.06
	8H	23.11	23.98	23.58	24.43	24.90	23.47	24.34	23.93	24.79	25.25
	12H	23.26	24.04	23.74	24.52	24.99	23.67	24.45	24.15	24.93	25.40
8H	4H	22.68	23.55	23.14	23.99	24.46	22.84	23.71	23.31	24.16	24.63
	6H	23.38	24.11	23.88	24.59	25.07	23.67	24.39	24.16	24.88	25.36
	8H	23.64	24.29	24.16	24.80	25.29	24.00	24.65	24.51	25.16	25.65
	12H	23.86	24.44	24.37	24.93	25.49	24.28	24.86	24.79	25.35	25.91
12H	4H	22.72	23.50	23.20	23.98	24.45	22.88	23.66	23.36	24.14	24.61
	6H	23.45	24.10	23.96	24.61	25.10	23.73	24.38	24.24	24.89	25.37
	8H	23.78	24.35	24.29	24.84	25.41	24.12	24.70	24.63	25.19	25.75