

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: P893506

Luminaire Tested: 4MB-4SL-FLT-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893506
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-L835
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

Summary

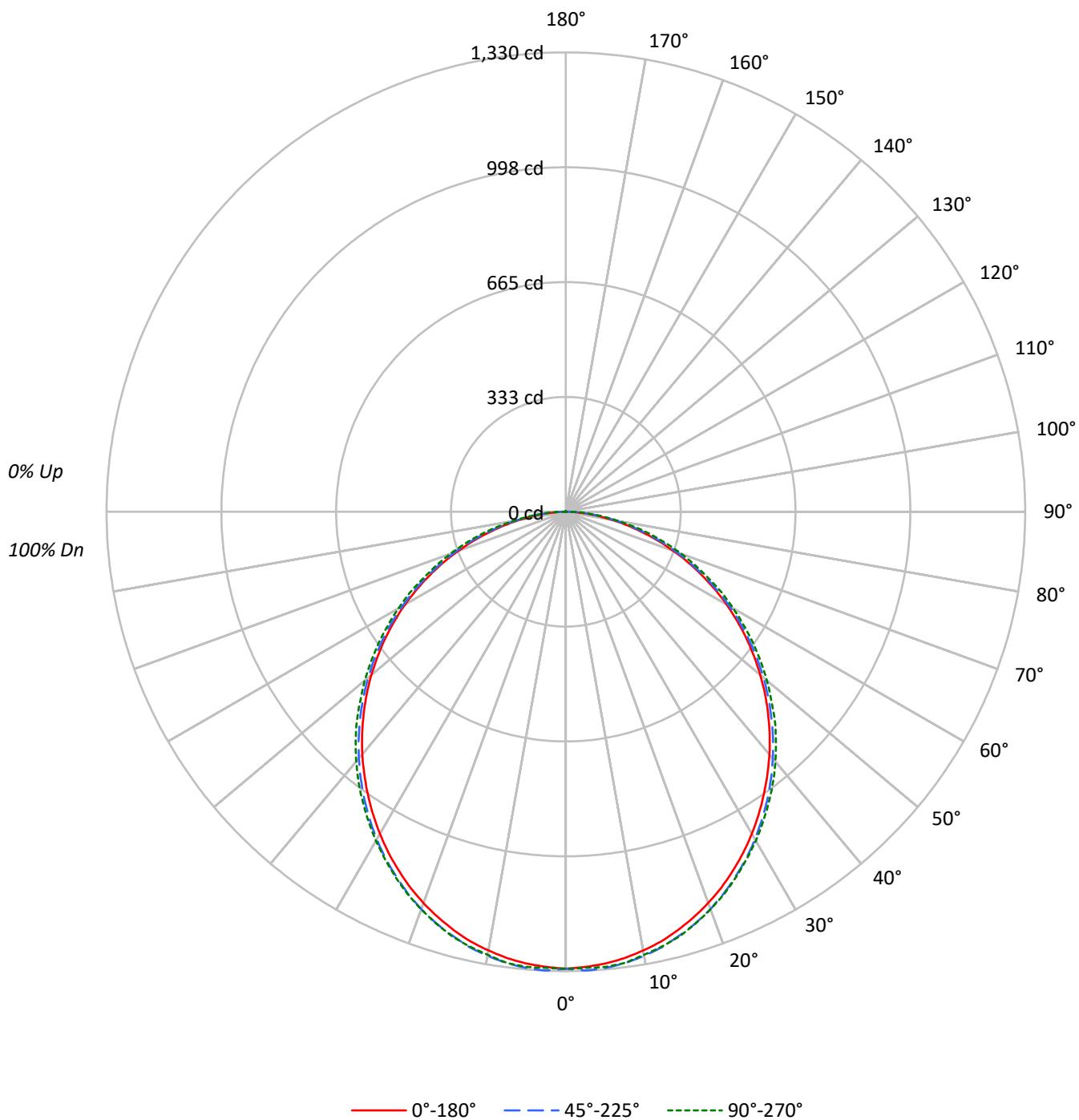
Lumens per Lamp: N/A
Luminaire Lumens: 3672.1 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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-L835

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°	9412	9412	9412
5°	9378	9468	9448
10°	9319	9431	9410
15°	9237	9358	9372
20°	9128	9268	9275
25°	8994	9138	9161
30°	8847	8998	9038
35°	8681	8832	8907
40°	8517	8661	8770
45°	8331	8467	8613
50°	8136	8264	8415
55°	7917	8036	8204
60°	7661	7785	7965
65°	7320	7467	7662
70°	6890	7092	7414
75°	6336	6603	7029
80°	5593	6031	6347
85°	4825	5535	5927

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8613 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.4
10°-20°	356.5	9.7
20°-30°	534.3	14.5
30°-40°	635.7	17.3
40°-50°	652.3	17.8
50°-60°	584.4	15.9
60°-70°	444.0	12.1
70°-80°	258.1	7.0
80°-90°	77.4	2.1
90°-100°	1.8	0.1
100°-110°	0.3	0.0
110°-120°	0.0	0.0
120°-130°	0.2	0.0
130°-140°	0.4	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1015.9	27.7
0°-40°	1651.6	45.0
0°-60°	2888.3	78.7
0°-90°	3667.8	99.9
90°-120°	2.2	0.1
90°-150°	3.4	0.1
90°-180°	4.0	0.1
0°-180°	3672.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1313	1335	1326	1319	1323	125
15°	1254	1278	1270	1269	1272	354
25°	1146	1172	1164	1162	1167	528
35°	999	1024	1017	1020	1026	625
45°	828	848	842	848	856	639
55°	638	654	648	656	661	570
65°	435	446	444	451	455	430
75°	230	239	240	249	256	244
85°	59	64	68	73	73	65
90°	1	4	4	7	6	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	1
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8
2.5°	1318.9	1317.0	1318.9	1318.0	1327.6	1339.3	1337.3	1328.6	1318.9	1321.8	1329.6
5°	1313.1	1312.1	1315.0	1313.1	1322.8	1335.4	1331.5	1323.8	1315.0	1318.0	1325.7
7.5°	1303.4	1303.4	1307.3	1305.4	1314.1	1326.7	1322.8	1316.0	1307.3	1310.2	1318.0
10°	1289.9	1290.8	1295.7	1292.8	1300.5	1314.1	1310.2	1303.4	1295.7	1297.6	1305.4
12.5°	1274.4	1274.4	1280.2	1277.3	1285.0	1297.6	1292.8	1287.9	1280.2	1282.1	1290.8
15°	1254.0	1255.0	1261.8	1258.9	1265.7	1278.3	1273.4	1269.5	1262.8	1263.7	1270.5
17.5°	1230.8	1233.7	1240.5	1237.6	1244.4	1256.9	1251.1	1247.3	1241.5	1242.4	1249.2
20°	1205.6	1208.5	1215.3	1213.4	1218.2	1230.8	1225.0	1223.1	1217.2	1218.2	1224.0
22.5°	1177.5	1180.4	1188.2	1186.3	1191.1	1203.7	1196.9	1195.9	1190.1	1191.1	1195.9
25°	1145.6	1149.5	1158.2	1156.2	1160.1	1171.7	1165.9	1164.0	1160.1	1160.1	1164.0
27.5°	1112.7	1116.5	1126.2	1123.3	1126.2	1138.8	1132.0	1131.1	1127.2	1127.2	1131.1
30°	1076.8	1080.7	1091.4	1088.4	1091.4	1102.0	1095.2	1096.2	1092.3	1092.3	1095.2
32.5°	1039.1	1042.0	1053.6	1051.7	1053.6	1064.2	1057.5	1058.4	1054.6	1055.5	1056.5
35°	999.4	1002.3	1014.9	1012.9	1013.9	1023.6	1018.7	1018.7	1015.8	1014.9	1016.8
37.5°	958.7	961.6	977.1	972.2	972.2	981.9	978.1	978.1	975.1	974.2	975.1
40°	917.0	919.0	935.4	930.6	929.6	938.4	935.4	935.4	933.5	931.6	932.5
42.5°	873.5	876.4	892.8	889.0	885.1	894.8	891.9	892.8	889.9	888.0	888.0
45°	828.0	830.9	847.3	845.4	839.6	848.3	845.4	847.3	843.5	841.5	841.5
47.5°	782.4	786.3	801.8	798.9	793.1	801.8	798.9	800.8	797.0	795.0	795.0
50°	735.0	738.9	755.3	750.5	744.7	753.4	751.5	752.4	749.5	747.6	746.6
52.5°	686.6	691.4	706.9	701.1	696.3	704.0	703.0	704.0	700.1	699.2	698.2
55°	638.2	643.0	657.5	650.7	646.9	653.7	651.7	653.7	649.8	648.8	647.8
57.5°	587.8	592.6	606.2	599.4	596.5	602.3	601.4	602.3	599.4	598.5	597.5
60°	538.4	542.3	554.9	548.1	545.2	551.0	549.1	552.0	548.1	548.1	547.1
62.5°	486.1	491.0	503.6	495.8	493.9	498.7	496.8	499.7	497.7	495.8	494.8
65°	434.8	437.7	449.3	442.5	439.6	445.5	444.5	446.4	443.5	444.5	443.5
67.5°	383.5	385.4	397.0	389.3	387.3	393.2	394.1	393.2	391.2	392.2	391.2
70°	331.2	333.1	342.8	336.0	335.1	339.9	341.8	340.9	338.9	339.9	340.9
72.5°	280.8	281.8	290.5	284.7	283.7	289.5	289.5	289.5	289.5	289.5	291.5
75°	230.5	231.4	239.2	234.3	233.4	239.2	239.2	239.2	239.2	241.1	240.2
77.5°	182.1	181.1	188.8	185.9	184.0	189.8	189.8	190.8	192.7	194.6	191.7
80°	136.5	135.6	141.4	137.5	137.5	143.3	142.4	143.3	145.3	146.2	147.2
82.5°	95.9	93.9	98.8	97.8	96.8	101.7	102.6	101.7	104.6	105.6	105.6
85°	59.1	59.1	62.0	60.0	60.0	63.9	63.9	64.9	66.8	67.8	67.8
87.5°	28.1	27.1	30.0	29.1	28.1	31.0	31.0	32.0	32.9	33.9	32.9
90°	1.0	1.0	1.9	1.9	1.9	3.9	3.9	3.9	4.8	4.8	3.9
92.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9	1.9
95°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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	1.0

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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	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0
132.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
135°	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
145°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
165°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
167.5°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
170°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
172.5°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
175°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.9	1.9
177.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8	1322.8
2.5°	1318.0	1311.2	1308.3	1310.2	1323.8	1310.2	1324.7	1329.6	1312.1	1321.8
5°	1314.1	1307.3	1303.4	1305.4	1318.9	1306.3	1321.8	1327.6	1313.1	1322.8
7.5°	1306.3	1298.6	1296.6	1299.6	1311.2	1300.5	1316.0	1321.8	1307.3	1317.0
10°	1294.7	1287.9	1286.0	1288.9	1299.6	1288.9	1302.5	1307.3	1293.7	1302.5
12.5°	1280.2	1273.4	1271.5	1275.3	1285.0	1275.3	1288.9	1293.7	1280.2	1288.9
15°	1261.8	1255.0	1254.0	1259.9	1268.6	1259.9	1273.4	1277.3	1263.7	1272.4
17.5°	1239.5	1232.7	1233.7	1240.5	1247.3	1239.5	1252.1	1256.0	1243.4	1250.2
20°	1215.3	1207.6	1209.5	1215.3	1221.1	1213.4	1226.0	1229.8	1218.2	1225.0
22.5°	1187.2	1179.5	1181.4	1188.2	1192.1	1185.3	1196.9	1200.8	1191.1	1197.9
25°	1156.2	1149.5	1152.4	1159.1	1162.0	1156.2	1166.9	1169.8	1161.1	1166.9
27.5°	1125.2	1117.5	1121.4	1128.2	1130.1	1124.3	1134.9	1136.9	1128.2	1134.0
30°	1090.4	1082.6	1087.5	1095.2	1095.2	1091.4	1100.1	1102.0	1095.2	1100.1
32.5°	1051.7	1045.8	1051.7	1058.4	1057.5	1054.6	1063.3	1065.2	1059.4	1063.3
35°	1012.9	1008.1	1013.9	1020.7	1019.7	1016.8	1025.5	1026.5	1021.6	1025.5
37.5°	973.2	969.3	975.1	981.0	979.0	977.1	984.8	984.8	981.9	985.8
40°	932.5	928.7	933.5	940.3	936.4	936.4	941.3	943.2	940.3	944.2
42.5°	889.9	886.1	891.9	897.7	893.8	892.8	898.6	899.6	897.7	900.6
45°	845.4	841.5	847.3	852.2	848.3	848.3	853.1	853.1	852.2	856.0
47.5°	799.9	797.0	801.8	806.7	802.8	805.7	805.7	805.7	807.6	806.7
50°	753.4	750.5	754.4	760.2	755.3	756.3	758.2	758.2	759.2	760.2
52.5°	705.0	701.1	705.0	711.8	705.0	707.9	708.8	709.8	712.7	710.8
55°	656.6	652.7	656.6	662.4	655.6	659.5	659.5	660.4	663.3	661.4
57.5°	606.2	602.3	608.1	612.0	605.2	609.1	609.1	611.0	613.0	610.1
60°	555.8	552.9	554.9	561.7	554.9	558.8	558.8	558.8	562.6	559.7
62.5°	504.5	502.6	504.5	510.3	503.6	507.4	506.5	507.4	511.3	510.3
65°	452.2	450.3	452.2	458.0	451.3	455.1	455.1	456.1	459.0	455.1
67.5°	400.9	398.0	400.9	405.7	399.9	402.8	402.8	402.8	407.7	405.7
70°	348.6	346.7	348.6	353.5	348.6	350.6	350.6	350.6	355.4	356.4
72.5°	297.3	297.3	299.2	303.1	299.2	303.1	300.2	298.3	305.0	306.0
75°	246.9	247.9	248.9	252.7	248.9	252.7	250.8	248.9	254.7	255.7
77.5°	200.5	200.5	201.4	204.3	201.4	204.3	202.4	202.4	206.3	205.3
80°	153.0	153.0	154.0	156.9	154.0	156.9	154.9	154.9	158.8	154.9
82.5°	111.4	111.4	111.4	114.3	112.3	114.3	113.3	111.4	116.2	112.3
85°	71.7	72.6	72.6	73.6	72.6	73.6	73.6	72.6	75.5	72.6
87.5°	36.8	36.8	36.8	37.8	36.8	36.8	37.8	36.8	38.7	37.8
90°	6.8	5.8	5.8	7.7	6.8	6.8	7.7	5.8	6.8	5.8
92.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9
95°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9
97.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
100°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
102.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
105°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0
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	1.0	0.0	0.0	0.0	1.0



TEST NUMBER: P893506

CATALOG NUMBER: 4MB-4SL-FLT-UNV-L835

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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.0	1.0	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°	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
145°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
165°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
167.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
170°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
172.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
177.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TEST NUMBER: P893506

CATALOG NUMBER: 4MB-4SL-FLT-UNV-L835

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	19.30	20.93	19.66	21.25	21.57	19.43	21.07	19.80	21.39	21.70
	3H	21.12	22.60	21.50	22.93	23.29	21.26	22.75	21.64	23.07	23.44
	4H	21.78	23.18	22.18	23.53	23.90	21.97	23.37	22.37	23.72	24.10
	6H	22.23	23.53	22.64	23.89	24.29	22.53	23.82	22.94	24.19	24.58
	8H	22.37	23.61	22.80	24.00	24.40	22.72	23.96	23.15	24.35	24.75
	12H	22.47	23.65	22.90	24.04	24.47	22.87	24.05	23.30	24.44	24.87
4H	2H	19.93	21.33	20.33	21.68	22.05	20.04	21.43	20.44	21.78	22.16
	3H	21.97	23.14	22.38	23.54	23.94	22.11	23.28	22.52	23.68	24.08
	4H	22.76	23.83	23.20	24.24	24.68	22.95	24.01	23.38	24.43	24.86
	6H	23.34	24.27	23.79	24.71	25.17	23.64	24.57	24.10	25.01	25.47
	8H	23.53	24.40	23.99	24.84	25.31	23.89	24.76	24.35	25.20	25.67
	12H	23.67	24.45	24.15	24.93	25.40	24.08	24.86	24.56	25.34	25.81
8H	4H	23.09	23.96	23.55	24.41	24.87	23.26	24.13	23.72	24.57	25.04
	6H	23.80	24.52	24.29	25.01	25.49	24.08	24.81	24.58	25.30	25.78
	8H	24.06	24.71	24.57	25.22	25.71	24.42	25.07	24.93	25.57	26.06
	12H	24.28	24.85	24.78	25.34	25.91	24.70	25.27	25.21	25.77	26.33
12H	4H	23.14	23.92	23.62	24.40	24.87	23.29	24.07	23.77	24.55	25.02
	6H	23.87	24.52	24.38	25.03	25.51	24.14	24.79	24.65	25.30	25.79
	8H	24.19	24.77	24.70	25.26	25.82	24.54	25.11	25.04	25.60	26.17