

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: P893505

Luminaire Tested: 4MB-4SL-FLT-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893505
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-L830
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

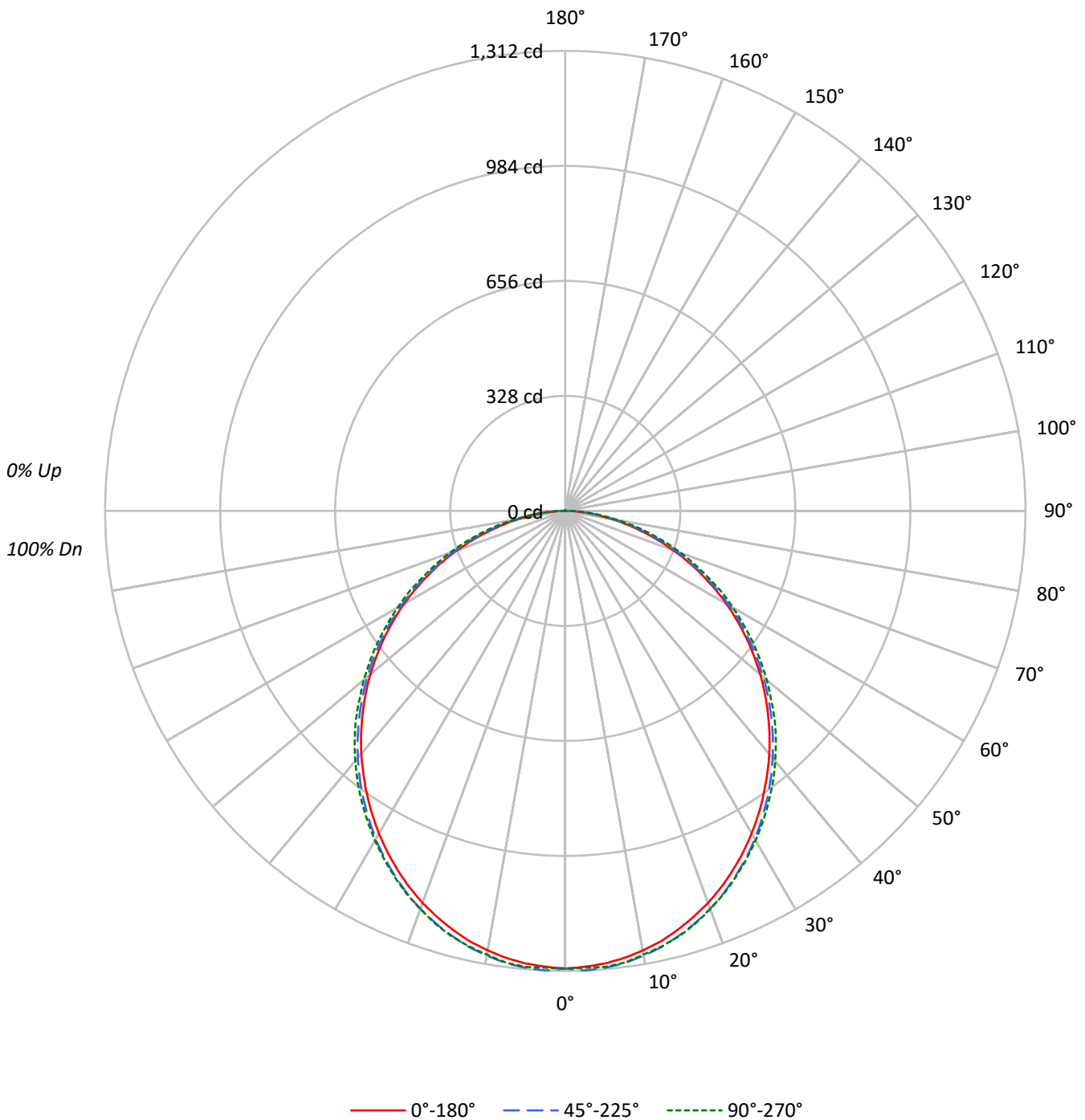
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3623.1 lumens
Efficiency: N/A
Efficacy: 121.6 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 (A_{in}): 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-L830

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	86	86	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9286	9286	9286
5°	9253	9342	9321
10°	9195	9305	9285
15°	9114	9233	9248
20°	9006	9144	9151
25°	8873	9016	9038
30°	8729	8878	8917
35°	8564	8714	8788
40°	8404	8546	8653
45°	8220	8355	8498
50°	8027	8155	8302
55°	7810	7929	8095
60°	7559	7681	7858
65°	7222	7367	7561
70°	6798	6996	7314
75°	6251	6515	6933
80°	5519	5949	6265
85°	4759	5461	5853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8498 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.4
10°-20°	351.8	9.7
20°-30°	527.1	14.5
30°-40°	627.2	17.3
40°-50°	643.6	17.8
50°-60°	576.6	15.9
60°-70°	438.1	12.1
70°-80°	254.6	7.0
80°-90°	76.4	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°	1002.3	27.7
0°-40°	1629.6	45.0
0°-60°	2849.7	78.7
0°-90°	3618.9	99.9
90°-120°	2.2	0.1
90°-150°	3.3	0.1
90°-180°	4.0	0.1
0°-180°	3623.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1296	1318	1308	1301	1305	123
15°	1237	1261	1254	1252	1256	349
25°	1130	1156	1148	1146	1151	521
35°	986	1010	1003	1006	1012	617
45°	817	837	830	837	845	630
55°	630	645	639	647	653	562
65°	429	440	438	445	449	425
75°	227	236	237	246	252	241
85°	58	63	67	72	72	64
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	



TEST NUMBER: P893505
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1301.3	1299.4	1301.3	1300.4	1309.9	1321.4	1319.5	1310.9	1301.3	1304.2	1311.8
5°	1295.6	1294.6	1297.5	1295.6	1305.1	1317.6	1313.7	1306.1	1297.5	1300.4	1308.0
7.5°	1286.0	1286.0	1289.9	1287.9	1296.5	1309.0	1305.1	1298.5	1289.9	1292.7	1300.4
10°	1272.7	1273.6	1278.4	1275.5	1283.2	1296.5	1292.7	1286.0	1278.4	1280.3	1287.9
12.5°	1257.4	1257.4	1263.1	1260.2	1267.9	1280.3	1275.5	1270.7	1263.1	1265.0	1273.6
15°	1237.3	1238.3	1245.0	1242.1	1248.8	1261.2	1256.4	1252.6	1245.9	1246.9	1253.5
17.5°	1214.4	1217.2	1223.9	1221.1	1227.8	1240.2	1234.4	1230.6	1224.9	1225.8	1232.5
20°	1189.5	1192.4	1199.1	1197.2	1202.0	1214.4	1208.6	1206.7	1201.0	1202.0	1207.7
22.5°	1161.8	1164.7	1172.3	1170.4	1175.2	1187.6	1180.9	1180.0	1174.2	1175.2	1180.0
25°	1130.3	1134.1	1142.7	1140.8	1144.6	1156.1	1150.4	1148.4	1144.6	1144.6	1148.4
27.5°	1097.8	1101.6	1111.2	1108.3	1111.2	1123.6	1116.9	1116.0	1112.1	1112.1	1116.0
30°	1062.5	1066.3	1076.8	1073.9	1076.8	1087.3	1080.6	1081.6	1077.7	1077.7	1080.6
32.5°	1025.2	1028.1	1039.5	1037.6	1039.5	1050.0	1043.4	1044.3	1040.5	1041.4	1042.4
35°	986.0	988.9	1001.3	999.4	1000.4	1009.9	1005.1	1005.1	1002.3	1001.3	1003.2
37.5°	945.9	948.8	964.0	959.3	959.3	968.8	965.0	965.0	962.1	961.2	962.1
40°	904.8	906.7	923.0	918.2	917.2	925.8	923.0	923.0	921.1	919.1	920.1
42.5°	861.8	864.7	880.9	877.1	873.3	882.8	880.0	880.9	878.1	876.1	876.1
45°	816.9	819.8	836.0	834.1	828.4	837.0	834.1	836.0	832.2	830.3	830.3
47.5°	772.0	775.8	791.1	788.2	782.5	791.1	788.2	790.2	786.3	784.4	784.4
50°	725.2	729.0	745.3	740.5	734.7	743.3	741.4	742.4	739.5	737.6	736.7
52.5°	677.4	682.2	697.5	691.7	687.0	694.6	693.7	694.6	690.8	689.8	688.9
55°	629.6	634.4	648.7	642.1	638.2	644.9	643.0	644.9	641.1	640.2	639.2
57.5°	580.0	584.7	598.1	591.4	588.6	594.3	593.3	594.3	591.4	590.5	589.5
60°	531.2	535.1	547.5	540.8	537.9	543.7	541.7	544.6	540.8	540.8	539.8
62.5°	479.6	484.4	496.8	489.2	487.3	492.1	490.1	493.0	491.1	489.2	488.2
65°	429.0	431.9	443.3	436.6	433.8	439.5	438.6	440.5	437.6	438.6	437.6
67.5°	378.4	380.3	391.7	384.1	382.2	387.9	388.9	387.9	386.0	387.0	386.0
70°	326.8	328.7	338.2	331.5	330.6	335.4	337.3	336.3	334.4	335.4	336.3
72.5°	277.1	278.0	286.6	280.9	279.9	285.7	285.7	285.7	285.7	285.7	287.6
75°	227.4	228.4	236.0	231.2	230.3	236.0	236.0	236.0	236.0	237.9	237.0
77.5°	179.6	178.7	186.3	183.4	181.5	187.3	187.3	188.2	190.1	192.0	189.2
80°	134.7	133.8	139.5	135.7	135.7	141.4	140.5	141.4	143.3	144.3	145.2
82.5°	94.6	92.7	97.5	96.5	95.5	100.3	101.3	100.3	103.2	104.1	104.1
85°	58.3	58.3	61.1	59.2	59.2	63.1	63.1	64.0	65.9	66.9	66.9
87.5°	27.7	26.8	29.6	28.7	27.7	30.6	30.6	31.5	32.5	33.4	32.5
90°	1.0	1.0	1.9	1.9	1.9	3.8	3.8	3.8	4.8	4.8	3.8
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°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1300.4	1293.7	1290.8	1292.7	1306.1	1292.7	1307.1	1311.8	1294.6	1304.2
5°	1296.5	1289.9	1286.0	1287.9	1301.3	1288.9	1304.2	1309.9	1295.6	1305.1
7.5°	1288.9	1281.3	1279.3	1282.2	1293.7	1283.2	1298.5	1304.2	1289.9	1299.4
10°	1277.4	1270.7	1268.8	1271.7	1282.2	1271.7	1285.1	1289.9	1276.5	1285.1
12.5°	1263.1	1256.4	1254.5	1258.3	1267.9	1258.3	1271.7	1276.5	1263.1	1271.7
15°	1245.0	1238.3	1237.3	1243.0	1251.6	1243.0	1256.4	1260.2	1246.9	1255.5
17.5°	1223.0	1216.3	1217.2	1223.9	1230.6	1223.0	1235.4	1239.2	1226.8	1233.5
20°	1199.1	1191.4	1193.4	1199.1	1204.8	1197.2	1209.6	1213.4	1202.0	1208.6
22.5°	1171.4	1163.7	1165.6	1172.3	1176.2	1169.5	1180.9	1184.8	1175.2	1181.9
25°	1140.8	1134.1	1137.0	1143.7	1146.5	1140.8	1151.3	1154.2	1145.6	1151.3
27.5°	1110.2	1102.6	1106.4	1113.1	1115.0	1109.3	1119.8	1121.7	1113.1	1118.8
30°	1075.8	1068.2	1073.0	1080.6	1080.6	1076.8	1085.4	1087.3	1080.6	1085.4
32.5°	1037.6	1031.9	1037.6	1044.3	1043.4	1040.5	1049.1	1051.0	1045.3	1049.1
35°	999.4	994.6	1000.4	1007.0	1006.1	1003.2	1011.8	1012.8	1008.0	1011.8
37.5°	960.2	956.4	962.1	967.9	966.0	964.0	971.7	971.7	968.8	972.6
40°	920.1	916.3	921.1	927.7	923.9	923.9	928.7	930.6	927.7	931.6
42.5°	878.1	874.2	880.0	885.7	881.9	880.9	886.7	887.6	885.7	888.6
45°	834.1	830.3	836.0	840.8	837.0	837.0	841.8	841.8	840.8	844.6
47.5°	789.2	786.3	791.1	795.9	792.1	794.9	794.9	794.9	796.8	795.9
50°	743.3	740.5	744.3	750.0	745.3	746.2	748.1	748.1	749.1	750.0
52.5°	695.6	691.7	695.6	702.3	695.6	698.4	699.4	700.3	703.2	701.3
55°	647.8	644.0	647.8	653.5	646.8	650.7	650.7	651.6	654.5	652.6
57.5°	598.1	594.3	600.0	603.8	597.2	601.0	601.0	602.9	604.8	601.9
60°	548.4	545.6	547.5	554.2	547.5	551.3	551.3	551.3	555.1	552.2
62.5°	497.8	495.9	497.8	503.5	496.8	500.7	499.7	500.7	504.5	503.5
65°	446.2	444.3	446.2	451.9	445.2	449.1	449.1	450.0	452.9	449.1
67.5°	395.6	392.7	395.6	400.3	394.6	397.5	397.5	397.5	402.2	400.3
70°	344.0	342.1	344.0	348.7	344.0	345.9	345.9	345.9	350.6	351.6
72.5°	293.3	293.3	295.2	299.1	295.2	299.1	296.2	294.3	301.0	301.9
75°	243.6	244.6	245.6	249.4	245.6	249.4	247.5	245.6	251.3	252.2
77.5°	197.8	197.8	198.7	201.6	198.7	201.6	199.7	199.7	203.5	202.6
80°	151.0	151.0	151.9	154.8	151.9	154.8	152.9	152.9	156.7	152.9
82.5°	109.9	109.9	109.9	112.7	110.8	112.7	111.8	109.9	114.7	110.8
85°	70.7	71.7	71.7	72.6	71.7	72.6	72.6	71.7	74.5	71.7
87.5°	36.3	36.3	36.3	37.3	36.3	36.3	37.3	36.3	38.2	37.3
90°	6.7	5.7	5.7	7.6	6.7	6.7	7.6	5.7	6.7	5.7
92.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.8	3.8
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: P893505
 CATALOG NUMBER: 4MB-4SL-FLT-UNV-L830

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: P893505
 CATALOG NUMBER: 4MB-4SL-FLT-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	19.25	20.89	19.62	21.20	21.52	19.39	21.02	19.75	21.34	21.66
	3H	21.07	22.55	21.45	22.88	23.24	21.22	22.70	21.60	23.03	23.39
	4H	21.73	23.13	22.13	23.48	23.86	21.93	23.32	22.33	23.67	24.05
	6H	22.19	23.48	22.60	23.85	24.24	22.48	23.78	22.90	24.14	24.54
	8H	22.33	23.56	22.75	23.95	24.35	22.68	23.91	23.10	24.31	24.71
	12H	22.42	23.61	22.85	23.99	24.42	22.82	24.00	23.25	24.39	24.82
4H	2H	19.88	21.28	20.28	21.63	22.01	19.99	21.39	20.39	21.74	22.11
	3H	21.92	23.10	22.33	23.50	23.90	22.06	23.23	22.47	23.63	24.03
	4H	22.72	23.78	23.15	24.19	24.63	22.90	23.96	23.34	24.38	24.82
	6H	23.29	24.22	23.75	24.66	25.12	23.60	24.52	24.05	24.97	25.42
	8H	23.48	24.35	23.94	24.80	25.26	23.84	24.71	24.30	25.15	25.62
	12H	23.63	24.41	24.11	24.88	25.36	24.03	24.82	24.52	25.29	25.77
8H	4H	23.05	23.92	23.51	24.36	24.83	23.21	24.08	23.67	24.53	24.99
	6H	23.75	24.47	24.24	24.96	25.44	24.04	24.76	24.53	25.25	25.73
	8H	24.01	24.66	24.52	25.17	25.66	24.37	25.02	24.88	25.53	26.01
	12H	24.23	24.80	24.74	25.30	25.86	24.65	25.23	25.16	25.72	26.28
12H	4H	23.09	23.87	23.57	24.35	24.82	23.24	24.03	23.73	24.50	24.98
	6H	23.82	24.47	24.33	24.98	25.47	24.09	24.75	24.60	25.25	25.74
	8H	24.15	24.72	24.65	25.21	25.78	24.49	25.06	25.00	25.56	26.12