

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: P893556

Luminaire Tested: 4MB-4SL-RND-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-4SL-RND-UNV-L850
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

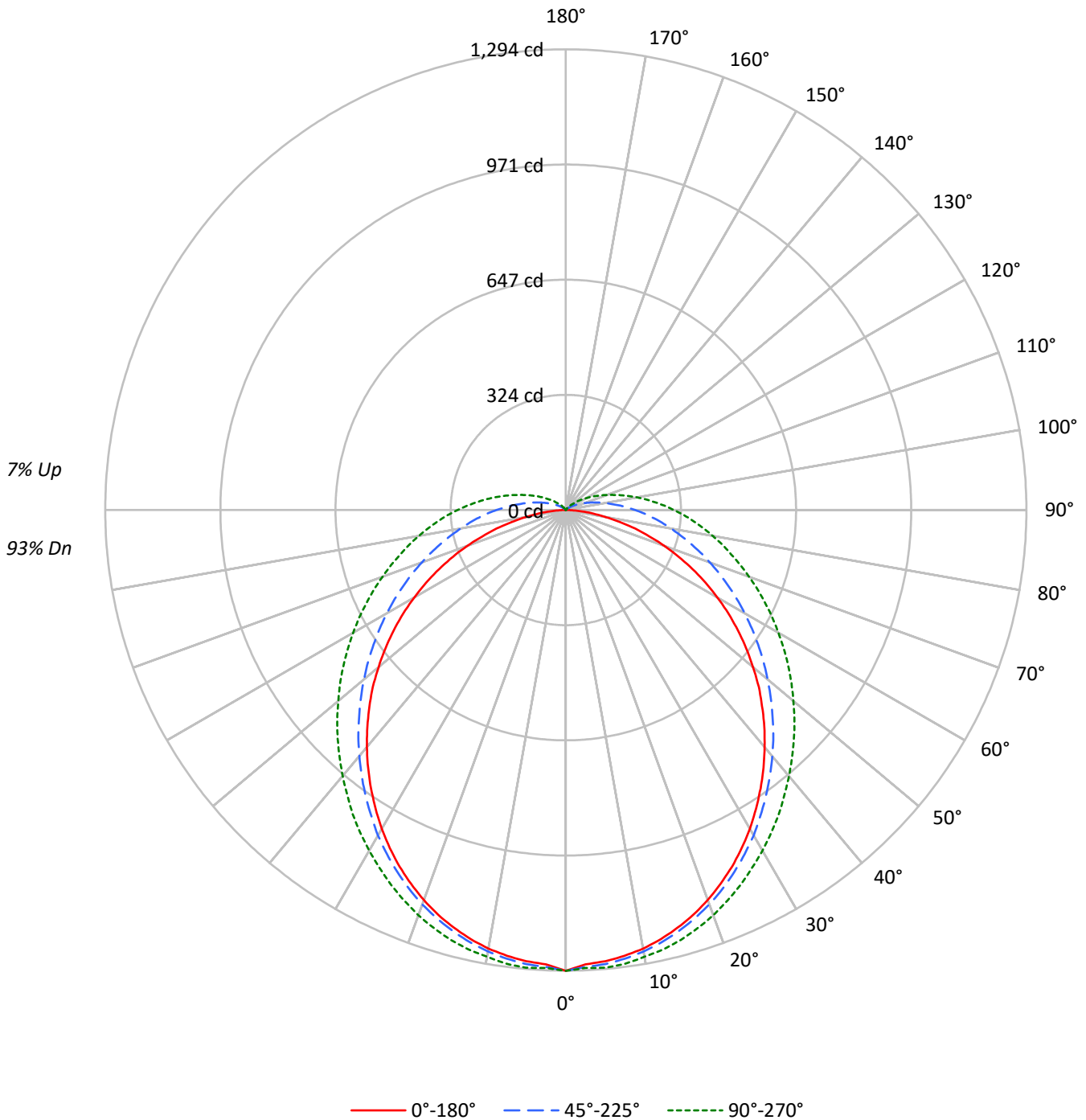
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4285.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
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-RND-UNV-L850

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	43
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24	24	24	24	23
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9210	9210	9210
5°	9086	9143	9216
10°	9037	9095	9205
15°	8945	9020	9206
20°	8827	8926	9172
25°	8675	8802	9120
30°	8496	8671	9078
35°	8287	8516	9061
40°	8071	8381	9059
45°	7847	8265	9121
50°	7601	8195	9238
55°	7325	8178	9461
60°	7004	8258	9814
65°	6616	8475	10401
70°	6131	8954	11398
75°	5542	9968	13226
80°	4687	12284	17180
85°	3804	20009	29438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 54187 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	2.9
10°-20°	348.8	8.1
20°-30°	522.2	12.2
30°-40°	622.7	14.5
40°-50°	645.8	15.1
50°-60°	599.2	14.0
60°-70°	499.8	11.7
70°-80°	372.7	8.7
80°-90°	248.1	5.8
90°-100°	151.1	3.5
100°-110°	84.3	2.0
110°-120°	42.1	1.0
120°-130°	17.6	0.4
130°-140°	5.5	0.1
140°-150°	1.4	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	993.4	23.2
0°-40°	1616.1	37.7
0°-60°	2861.1	66.8
0°-90°	3981.8	92.9
90°-120°	277.6	6.5
90°-150°	302.1	7.0
90°-180°	303.0	7.1
0°-180°	4285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1272	1302	1280	1287	1290	121
15°	1214	1246	1224	1247	1250	342
25°	1105	1134	1121	1153	1162	509
35°	954	979	980	1029	1043	597
45°	780	800	821	886	906	602
55°	590	611	659	736	763	528
65°	393	424	503	588	618	389
75°	202	257	363	451	481	213
85°	47	128	245	329	361	52
90°	2	84	194	274	304	3
95°	0	52	150	225	251	0
105°	0	16	82	139	160	0
115°	1	4	38	78	93	1
125°	1	1	15	38	47	1
135°	1	1	4	13	17	1
145°	1	1	1	3	4	1
155°	2	2	1	1	1	1
165°	2	2	1	1	1	1
175°	2	2	2	1	0	0
180°	2	2	2	2	2	



TEST NUMBER: P893556

CATALOG NUMBER: 4MB-4SL-RND-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4
2.5°	1277.2	1279.2	1297.4	1296.4	1293.4	1305.5	1308.6	1298.4	1282.2	1298.4	1284.3
5°	1272.1	1274.1	1292.4	1291.3	1288.3	1301.5	1302.5	1293.4	1277.2	1293.4	1280.2
7.5°	1263.0	1265.0	1283.2	1282.2	1280.2	1293.4	1292.4	1285.3	1268.1	1285.3	1271.1
10°	1250.8	1251.8	1271.1	1269.1	1268.1	1281.2	1278.2	1272.1	1254.9	1272.1	1258.9
12.5°	1234.6	1235.6	1254.9	1252.9	1252.9	1265.0	1261.0	1255.9	1238.7	1254.9	1243.7
15°	1214.4	1215.4	1233.6	1232.6	1232.6	1245.8	1239.7	1235.6	1219.4	1236.7	1224.5
17.5°	1192.1	1191.1	1210.3	1208.3	1210.3	1222.5	1214.4	1212.3	1197.2	1213.4	1203.2
20°	1165.8	1165.8	1183.0	1182.0	1185.0	1196.1	1186.0	1187.0	1171.8	1189.1	1178.9
22.5°	1136.4	1135.4	1152.6	1152.6	1155.6	1166.8	1155.6	1158.7	1143.5	1159.7	1151.6
25°	1105.0	1103.0	1120.2	1120.2	1125.2	1134.4	1122.2	1126.3	1112.1	1128.3	1121.2
27.5°	1070.6	1067.5	1084.7	1085.7	1089.8	1098.9	1085.7	1091.8	1078.7	1093.8	1088.8
30°	1034.1	1031.1	1048.3	1049.3	1054.3	1061.4	1048.3	1056.4	1044.2	1059.4	1055.4
32.5°	994.6	992.6	1008.8	1010.8	1015.9	1020.9	1008.8	1016.9	1006.7	1021.9	1017.9
35°	954.1	952.1	967.2	970.3	975.3	979.4	966.2	977.4	968.3	982.4	980.4
37.5°	912.6	909.5	925.7	927.7	933.8	935.8	923.7	936.9	928.8	942.9	941.9
40°	869.0	866.0	882.2	884.2	890.3	890.3	880.1	894.3	888.2	901.4	902.4
42.5°	825.4	822.4	836.6	840.6	845.7	845.7	835.6	850.8	846.7	859.9	862.9
45°	779.9	776.8	790.0	794.1	800.1	800.1	790.0	807.2	804.2	817.3	821.4
47.5°	735.3	731.3	743.4	747.5	753.5	752.5	744.4	761.6	760.6	773.8	780.9
50°	686.7	683.7	695.8	699.9	706.9	704.9	698.8	717.1	717.1	730.2	740.4
52.5°	639.1	636.1	648.2	652.3	658.3	658.3	652.3	671.5	674.5	687.7	699.9
55°	590.5	586.4	598.6	602.6	609.7	610.7	605.7	624.9	631.0	646.2	659.3
57.5°	541.9	539.8	550.0	554.0	563.1	563.1	560.1	580.3	588.4	604.7	619.8
60°	492.2	490.2	499.3	504.4	514.5	516.5	514.5	535.8	546.9	563.1	580.3
62.5°	442.6	440.6	449.7	456.8	467.9	469.9	471.0	493.2	505.4	522.6	541.9
65°	393.0	390.9	400.1	408.2	421.3	424.4	427.4	450.7	464.9	483.1	503.4
67.5°	343.3	342.3	351.4	361.6	375.8	379.8	384.9	409.2	425.4	444.6	466.9
70°	294.7	293.7	302.8	315.0	332.2	337.3	343.3	367.7	387.9	408.2	430.4
72.5°	246.1	247.1	257.3	271.4	290.7	295.7	303.8	329.2	351.4	372.7	396.0
75°	201.6	201.6	212.7	228.9	250.2	257.3	266.4	292.7	316.0	338.3	362.6
77.5°	156.0	156.0	169.1	189.4	212.7	219.8	230.9	258.3	283.6	305.9	330.2
80°	114.4	116.5	131.7	151.9	176.2	185.3	198.5	225.9	253.2	275.5	299.8
82.5°	78.0	81.0	97.2	120.5	144.8	153.9	167.1	196.5	223.8	247.1	272.4
85°	46.6	51.7	68.9	92.2	117.5	127.6	141.8	169.1	196.5	219.8	245.1
87.5°	21.3	28.4	46.6	69.9	94.2	105.3	117.5	143.8	171.2	194.5	220.8
90°	2.0	12.2	30.4	50.6	73.9	84.1	96.2	121.5	147.9	169.1	194.5
92.5°	0.0	5.1	18.2	36.5	56.7	66.8	78.0	102.3	125.6	146.9	171.2
95°	0.0	2.0	10.1	25.3	42.5	51.7	61.8	84.1	107.4	127.6	149.9
97.5°	0.0	1.0	6.1	17.2	31.4	39.5	48.6	68.9	90.1	109.4	129.6
100°	0.0	1.0	3.0	11.1	23.3	29.4	38.5	55.7	74.9	92.2	112.4
102.5°	0.0	0.0	2.0	7.1	17.2	22.3	29.4	44.6	61.8	78.0	96.2
105°	0.0	0.0	1.0	5.1	12.2	16.2	22.3	35.4	50.6	64.8	82.0
107.5°	0.0	0.0	1.0	3.0	8.1	12.2	17.2	27.3	40.5	53.7	68.9
110°	1.0	1.0	1.0	2.0	6.1	9.1	12.2	21.3	33.4	44.6	57.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.0	1.0	1.0	1.0	4.1	6.1	9.1	16.2	26.3	35.4	47.6
115°	1.0	1.0	1.0	1.0	3.0	4.1	6.1	12.2	20.3	28.4	38.5
117.5°	1.0	1.0	1.0	1.0	2.0	3.0	4.1	9.1	15.2	22.3	31.4
120°	1.0	1.0	1.0	1.0	1.0	2.0	3.0	6.1	12.2	17.2	25.3
122.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	5.1	9.1	13.2	19.2
125°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	6.1	10.1	15.2
127.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.1	7.1	11.1
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	5.1	8.1
132.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.1	6.1
135°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.1
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
145°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0
170°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
172.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0
175°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
177.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4
2.5°	1288.3	1291.3	1294.4	1286.3	1291.3	1300.5	1303.5	1291.3	1295.4	1287.3
5°	1284.3	1286.3	1290.3	1280.2	1287.3	1295.4	1300.5	1290.3	1296.4	1290.3
7.5°	1276.2	1278.2	1283.2	1273.1	1282.2	1289.3	1295.4	1285.3	1291.3	1285.3
10°	1264.0	1267.0	1274.1	1262.0	1273.1	1279.2	1285.3	1274.1	1280.2	1274.1
12.5°	1248.8	1253.9	1260.0	1248.8	1260.0	1265.0	1273.1	1262.0	1269.1	1264.0
15°	1230.6	1235.6	1243.7	1232.6	1246.8	1250.8	1258.9	1247.8	1254.9	1249.8
17.5°	1209.3	1215.4	1225.5	1212.3	1228.6	1231.6	1239.7	1229.6	1236.7	1231.6
20°	1185.0	1191.1	1201.2	1189.1	1205.3	1207.3	1216.4	1207.3	1214.4	1211.3
22.5°	1156.6	1163.7	1173.9	1162.7	1179.9	1179.9	1191.1	1182.0	1190.1	1187.0
25°	1127.3	1135.4	1146.5	1134.4	1152.6	1152.6	1164.7	1155.6	1163.7	1161.7
27.5°	1095.9	1105.0	1118.2	1106.0	1124.2	1123.2	1135.4	1127.3	1136.4	1133.3
30°	1062.5	1072.6	1085.7	1075.6	1094.9	1092.8	1105.0	1097.9	1106.0	1105.0
32.5°	1026.0	1037.1	1053.3	1042.2	1061.4	1059.4	1074.6	1066.5	1076.6	1074.6
35°	989.5	1001.7	1017.9	1007.8	1029.0	1026.0	1041.2	1034.1	1044.2	1043.2
37.5°	952.1	965.2	981.4	973.3	993.6	990.5	1006.7	1000.7	1011.8	1008.8
40°	913.6	926.7	943.9	936.9	958.1	954.1	971.3	966.2	977.4	975.3
42.5°	875.1	889.3	906.5	902.4	922.7	918.6	935.8	931.8	942.9	940.9
45°	835.6	850.8	869.0	864.9	886.2	882.2	899.4	896.3	907.5	906.5
47.5°	796.1	812.3	830.5	828.5	848.7	844.7	862.9	859.9	871.0	871.0
50°	755.6	773.8	792.0	791.0	811.3	807.2	823.4	823.4	835.6	834.6
52.5°	715.1	734.3	753.5	753.5	773.8	769.7	788.0	787.0	799.1	799.1
55°	676.6	693.8	713.0	717.1	736.3	730.2	749.5	751.5	761.6	762.7
57.5°	638.1	656.3	675.6	680.6	698.8	694.8	713.0	715.1	725.2	726.2
60°	599.6	616.8	636.1	643.1	661.4	657.3	675.6	677.6	688.7	689.7
62.5°	561.1	578.3	599.6	606.7	623.9	620.9	640.1	642.1	652.3	654.3
65°	523.6	541.9	562.1	572.2	588.4	584.4	603.6	605.7	616.8	617.8
67.5°	487.2	505.4	525.7	536.8	552.0	550.0	568.2	572.2	581.4	583.4
70°	451.7	469.9	491.2	502.4	517.6	516.5	533.8	536.8	546.9	547.9
72.5°	417.3	435.5	456.8	469.9	483.1	482.1	499.3	503.4	513.5	514.5
75°	383.9	403.1	423.4	437.5	450.7	449.7	466.9	471.0	480.1	481.1
77.5°	352.5	371.7	393.0	407.2	418.3	419.3	434.5	438.6	447.7	450.7
80°	323.1	341.3	361.6	376.8	386.9	388.9	403.1	408.2	415.3	419.3
82.5°	294.7	313.0	333.2	347.4	357.5	359.6	372.7	378.8	385.9	388.9
85°	267.4	285.6	304.9	320.1	329.2	330.2	343.3	349.4	355.5	360.6
87.5°	241.1	259.3	277.5	293.7	301.8	303.8	316.0	322.1	327.1	332.2
90°	214.7	232.9	251.2	266.4	274.5	275.5	288.7	294.7	299.8	303.8
92.5°	190.4	208.6	226.9	242.1	249.2	251.2	262.3	269.4	273.5	277.5
95°	167.1	185.3	201.6	217.8	224.8	227.9	238.0	244.1	249.2	251.2
97.5°	146.9	163.1	178.3	194.5	200.5	203.6	213.7	220.8	224.8	226.9
100°	127.6	142.8	157.0	172.2	178.3	181.3	190.4	196.5	200.5	203.6
102.5°	110.4	124.6	137.7	151.9	158.0	160.0	168.1	174.2	178.3	181.3
105°	95.2	108.4	120.5	133.7	138.8	141.8	148.9	153.9	158.0	160.0
107.5°	81.0	94.2	104.3	116.5	121.5	123.6	130.7	136.7	139.8	140.8
110°	68.9	80.0	90.1	100.3	106.3	108.4	114.4	119.5	122.6	123.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	57.7	67.9	77.0	86.1	91.2	93.2	99.3	104.3	106.3	107.4
115°	47.6	57.7	64.8	73.9	78.0	80.0	85.1	90.1	91.2	93.2
117.5°	38.5	47.6	54.7	61.8	65.8	67.9	71.9	76.0	78.0	79.0
120°	31.4	38.5	44.6	51.7	54.7	56.7	60.8	64.8	65.8	66.8
122.5°	25.3	31.4	36.5	42.5	45.6	47.6	50.6	53.7	54.7	55.7
125°	19.2	25.3	29.4	34.4	37.5	38.5	41.5	44.6	45.6	46.6
127.5°	15.2	19.2	23.3	27.3	29.4	30.4	33.4	35.4	36.5	37.5
130°	11.1	14.2	17.2	21.3	23.3	24.3	26.3	28.4	29.4	29.4
132.5°	8.1	11.1	13.2	16.2	17.2	18.2	20.3	22.3	22.3	23.3
135°	5.1	7.1	9.1	11.1	13.2	13.2	15.2	16.2	17.2	17.2
137.5°	4.1	5.1	6.1	8.1	9.1	10.1	10.1	12.2	12.2	12.2
140°	3.0	4.1	4.1	5.1	6.1	7.1	7.1	8.1	8.1	8.1
142.5°	2.0	3.0	3.0	4.1	4.1	5.1	5.1	5.1	6.1	6.1
145°	2.0	2.0	2.0	3.0	3.0	3.0	3.0	4.1	4.1	4.1
147.5°	1.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0
150°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
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	0.0
177.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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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	18.00	19.54	18.47	20.00	20.48	19.57	21.11	20.04	21.57	22.05
	3H	19.68	21.08	20.16	21.55	22.07	22.20	23.60	22.68	24.07	24.60
	4H	20.28	21.61	20.78	22.09	22.63	23.51	24.84	24.01	25.32	25.86
	6H	20.67	21.91	21.19	22.41	22.97	24.91	26.15	25.43	26.65	27.21
	8H	20.79	21.98	21.32	22.50	23.06	25.66	26.85	26.19	27.37	27.94
	12H	20.87	22.01	21.40	22.52	23.12	26.51	27.65	27.05	28.17	28.76
4H	2H	18.93	20.26	19.43	20.74	21.28	20.12	21.45	20.63	21.94	22.48
	3H	20.91	22.04	21.43	22.57	23.14	23.04	24.18	23.56	24.70	25.27
	4H	21.68	22.73	22.22	23.26	23.86	24.56	25.61	25.10	26.14	26.74
	6H	22.26	23.18	22.82	23.75	24.36	26.21	27.13	26.76	27.69	28.30
	8H	22.45	23.31	23.01	23.88	24.50	27.09	27.96	27.65	28.52	29.14
	12H	22.57	23.36	23.15	23.95	24.58	28.09	28.88	28.68	29.47	30.10
8H	4H	22.56	23.43	23.12	23.99	24.62	24.93	25.79	25.49	26.36	26.98
	6H	23.44	24.18	24.04	24.79	25.41	26.83	27.56	27.42	28.17	28.80
	8H	23.79	24.46	24.40	25.07	25.71	27.91	28.58	28.52	29.19	29.83
	12H	24.06	24.66	24.67	25.26	25.97	29.17	29.77	29.78	30.37	31.08
12H	4H	22.84	23.63	23.42	24.22	24.85	24.97	25.76	25.55	26.35	26.97
	6H	23.89	24.56	24.50	25.18	25.82	26.94	27.60	27.54	28.22	28.86
	8H	24.41	25.01	25.02	25.61	26.32	28.13	28.73	28.74	29.33	30.04