

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: P893553

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

Issue Date: 11/11/2024

**Test Information**

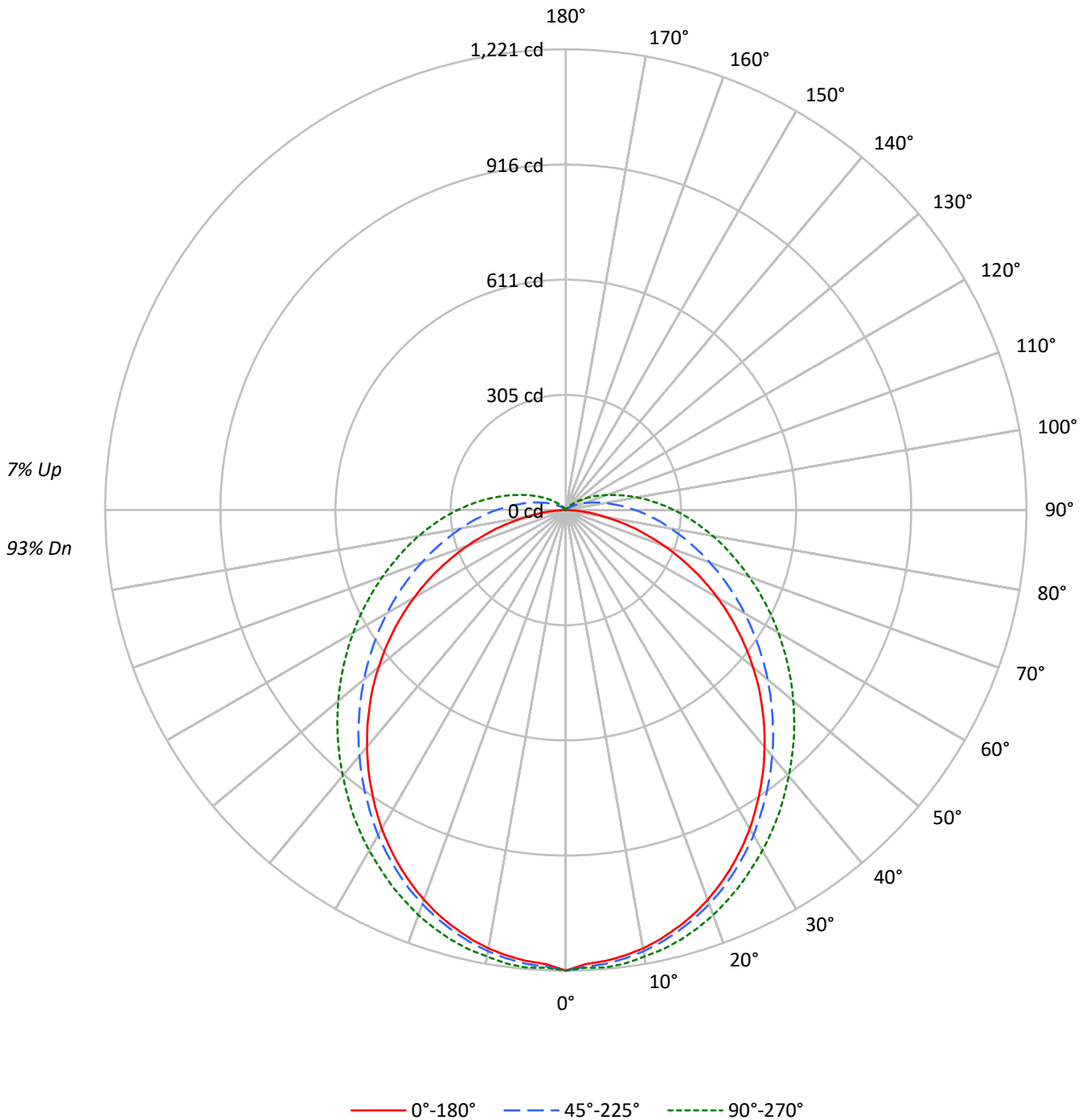
Test Method: LM-79-2019  
Report Number: P893553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-4SL-RND-UNV-L830  
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4041.1 lumens  
Efficiency: N/A  
Efficacy: 135.6 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<sub>in</sub>): 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-L830

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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°	8685	8685	8685
5°	8568	8623	8691
10°	8522	8578	8681
15°	8436	8506	8682
20°	8324	8418	8650
25°	8181	8300	8601
30°	8012	8177	8562
35°	7815	8031	8545
40°	7611	7904	8543
45°	7401	7794	8602
50°	7168	7728	8711
55°	6908	7713	8921
60°	6606	7788	9257
65°	6239	7992	9808
70°	5781	8444	10749
75°	5226	9399	12472
80°	4421	11583	16201
85°	3584	18866	27756

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 51104 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	2.9
10°-20°	328.9	8.1
20°-30°	492.5	12.2
30°-40°	587.2	14.5
40°-50°	609.0	15.1
50°-60°	565.0	14.0
60°-70°	471.4	11.7
70°-80°	351.4	8.7
80°-90°	234.0	5.8
90°-100°	142.5	3.5
100°-110°	79.5	2.0
110°-120°	39.7	1.0
120°-130°	16.6	0.4
130°-140°	5.2	0.1
140°-150°	1.3	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	936.9	23.2
0°-40°	1524.1	37.7
0°-60°	2698.2	66.8
0°-90°	3755.0	92.9
90°-120°	261.8	6.5
90°-150°	284.9	7.1
90°-180°	286.0	7.1
0°-180°	4041.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1200	1227	1207	1214	1217	114
15°	1145	1175	1155	1176	1179	323
25°	1042	1070	1057	1087	1096	480
35°	900	924	925	970	984	563
45°	736	755	775	836	855	568
55°	557	576	622	694	719	498
65°	371	400	475	555	583	367
75°	190	243	342	425	454	201
85°	44	120	231	310	340	49
90°	2	79	183	259	286	3
95°	0	49	141	212	237	0
105°	0	15	77	131	151	0
115°	1	4	36	74	88	1
125°	1	1	14	35	44	1
135°	1	1	4	12	16	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7
2.5°	1204.4	1206.4	1223.5	1222.6	1219.7	1231.2	1234.1	1224.5	1209.2	1224.5	1211.1
5°	1199.7	1201.6	1218.8	1217.8	1214.9	1227.4	1228.3	1219.7	1204.4	1219.7	1207.3
7.5°	1191.1	1193.0	1210.2	1209.2	1207.3	1219.7	1218.8	1212.1	1195.8	1212.1	1198.7
10°	1179.6	1180.6	1198.7	1196.8	1195.8	1208.3	1205.4	1199.7	1183.4	1199.7	1187.3
12.5°	1164.3	1165.3	1183.4	1181.5	1181.5	1193.0	1189.2	1184.4	1168.1	1183.4	1172.9
15°	1145.2	1146.2	1163.4	1162.4	1162.4	1174.8	1169.1	1165.3	1150.0	1166.2	1154.8
17.5°	1124.2	1123.3	1141.4	1139.5	1141.4	1152.9	1145.2	1143.3	1129.0	1144.3	1134.7
20°	1099.4	1099.4	1115.6	1114.7	1117.5	1128.0	1118.5	1119.4	1105.1	1121.3	1111.8
22.5°	1071.7	1070.7	1087.0	1087.0	1089.8	1100.3	1089.8	1092.7	1078.4	1093.6	1086.0
25°	1042.1	1040.2	1056.4	1056.4	1061.2	1069.8	1058.3	1062.1	1048.8	1064.0	1057.3
27.5°	1009.6	1006.7	1023.0	1023.9	1027.7	1036.3	1023.9	1029.7	1017.2	1031.6	1026.8
30°	975.2	972.3	988.6	989.5	994.3	1001.0	988.6	996.2	984.8	999.1	995.3
32.5°	938.0	936.0	951.3	953.2	958.0	962.8	951.3	959.0	949.4	963.7	959.9
35°	899.8	897.8	912.2	915.0	919.8	923.6	911.2	921.7	913.1	926.5	924.6
37.5°	860.6	857.7	873.0	874.9	880.6	882.6	871.1	883.5	875.9	889.2	888.3
40°	819.5	816.7	831.9	833.8	839.6	839.6	830.0	843.4	837.7	850.1	851.0
42.5°	778.4	775.6	789.0	792.8	797.5	797.5	788.0	802.3	798.5	810.9	813.8
45°	735.5	732.6	745.0	748.8	754.6	754.6	745.0	761.3	758.4	770.8	774.6
47.5°	693.4	689.6	701.1	704.9	710.6	709.7	702.0	718.3	717.3	729.7	736.4
50°	647.6	644.7	656.2	660.0	666.7	664.8	659.1	676.2	676.2	688.7	698.2
52.5°	602.7	599.8	611.3	615.1	620.8	620.8	615.1	633.3	636.1	648.5	660.0
55°	556.9	553.0	564.5	568.3	575.0	576.0	571.2	589.3	595.1	609.4	621.8
57.5°	511.0	509.1	518.6	522.5	531.1	531.1	528.2	547.3	554.9	570.2	584.6
60°	464.2	462.3	470.9	475.7	485.2	487.1	485.2	505.3	515.8	531.1	547.3
62.5°	417.4	415.5	424.1	430.8	441.3	443.2	444.1	465.2	476.6	492.9	511.0
65°	370.6	368.7	377.3	384.9	397.3	400.2	403.1	425.0	438.4	455.6	474.7
67.5°	323.8	322.8	331.4	341.0	354.4	358.2	363.0	385.9	401.2	419.3	440.3
70°	277.9	277.0	285.6	297.1	313.3	318.1	323.8	346.7	365.8	384.9	405.9
72.5°	232.1	233.1	242.6	256.0	274.1	278.9	286.5	310.4	331.4	351.5	373.5
75°	190.1	190.1	200.6	215.9	235.9	242.6	251.2	276.0	298.0	319.0	341.9
77.5°	147.1	147.1	159.5	178.6	200.6	207.3	217.8	243.6	267.4	288.5	311.4
80°	107.9	109.8	124.2	143.3	166.2	174.8	187.2	213.0	238.8	259.8	282.7
82.5°	73.5	76.4	91.7	113.7	136.6	145.2	157.6	185.3	211.1	233.1	256.9
85°	43.9	48.7	65.0	86.9	110.8	120.3	133.7	159.5	185.3	207.3	231.1
87.5°	20.1	26.7	43.9	65.9	88.8	99.3	110.8	135.6	161.4	183.4	208.2
90°	1.9	11.5	28.7	47.8	69.7	79.3	90.7	114.6	139.5	159.5	183.4
92.5°	0.0	4.8	17.2	34.4	53.5	63.0	73.5	96.5	118.4	138.5	161.4
95°	0.0	1.9	9.6	23.9	40.1	48.7	58.3	79.3	101.2	120.3	141.4
97.5°	0.0	1.0	5.7	16.2	29.6	37.3	45.8	65.0	85.0	103.2	122.3
100°	0.0	1.0	2.9	10.5	22.0	27.7	36.3	52.5	70.7	86.9	106.0
102.5°	0.0	0.0	1.9	6.7	16.2	21.0	27.7	42.0	58.3	73.5	90.7
105°	0.0	0.0	1.0	4.8	11.5	15.3	21.0	33.4	47.8	61.1	77.4
107.5°	0.0	0.0	1.0	2.9	7.6	11.5	16.2	25.8	38.2	50.6	65.0
110°	1.0	1.0	1.0	1.9	5.7	8.6	11.5	20.1	31.5	42.0	54.4



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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	3.8	5.7	8.6	15.3	24.8	33.4	44.9
115°	1.0	1.0	1.0	1.0	2.9	3.8	5.7	11.5	19.1	26.7	36.3
117.5°	1.0	1.0	1.0	1.0	1.9	2.9	3.8	8.6	14.3	21.0	29.6
120°	1.0	1.0	1.0	1.0	1.0	1.9	2.9	5.7	11.5	16.2	23.9
122.5°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	4.8	8.6	12.4	18.1
125°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	5.7	9.6	14.3
127.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8	6.7	10.5
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	4.8	7.6
132.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8	5.7
135°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	2.9
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
145°	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0
157.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0
165°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0
167.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0
170°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
172.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0
175°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	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°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7
2.5°	1214.9	1217.8	1220.7	1213.0	1217.8	1226.4	1229.3	1217.8	1221.6	1214.0
5°	1211.1	1213.0	1216.9	1207.3	1214.0	1221.6	1226.4	1216.9	1222.6	1216.9
7.5°	1203.5	1205.4	1210.2	1200.6	1209.2	1215.9	1221.6	1212.1	1217.8	1212.1
10°	1192.0	1194.9	1201.6	1190.1	1200.6	1206.4	1212.1	1201.6	1207.3	1201.6
12.5°	1177.7	1182.5	1188.2	1177.7	1188.2	1193.0	1200.6	1190.1	1196.8	1192.0
15°	1160.5	1165.3	1172.9	1162.4	1175.8	1179.6	1187.3	1176.7	1183.4	1178.7
17.5°	1140.4	1146.2	1155.7	1143.3	1158.6	1161.5	1169.1	1159.6	1166.2	1161.5
20°	1117.5	1123.3	1132.8	1121.3	1136.6	1138.5	1147.1	1138.5	1145.2	1142.4
22.5°	1090.8	1097.5	1107.0	1096.5	1112.7	1112.7	1123.3	1114.7	1122.3	1119.4
25°	1063.1	1070.7	1081.2	1069.8	1087.0	1087.0	1098.4	1089.8	1097.5	1095.6
27.5°	1033.5	1042.1	1054.5	1043.0	1060.2	1059.3	1070.7	1063.1	1071.7	1068.8
30°	1002.0	1011.5	1023.9	1014.4	1032.5	1030.6	1042.1	1035.4	1043.0	1042.1
32.5°	967.6	978.1	993.4	982.8	1001.0	999.1	1013.4	1005.8	1015.3	1013.4
35°	933.2	944.6	959.9	950.4	970.4	967.6	981.9	975.2	984.8	983.8
37.5°	897.8	910.3	925.5	917.9	937.0	934.1	949.4	943.7	954.2	951.3
40°	861.5	874.0	890.2	883.5	903.6	899.8	916.0	911.2	921.7	919.8
42.5°	825.2	838.6	854.9	851.0	870.1	866.3	882.6	878.7	889.2	887.3
45°	788.0	802.3	819.5	815.7	835.8	831.9	848.2	845.3	855.8	854.9
47.5°	750.7	766.0	783.2	781.3	800.4	796.6	813.8	810.9	821.4	821.4
50°	712.5	729.7	746.9	746.0	765.1	761.3	776.5	776.5	788.0	787.0
52.5°	674.3	692.5	710.6	710.6	729.7	725.9	743.1	742.2	753.6	753.6
55°	638.0	654.3	672.4	676.2	694.4	688.7	706.8	708.7	718.3	719.2
57.5°	601.7	618.9	637.1	641.9	659.1	655.2	672.4	674.3	683.9	684.8
60°	565.4	581.7	599.8	606.5	623.7	619.9	637.1	639.0	649.5	650.5
62.5°	529.2	545.4	565.4	572.1	588.4	585.5	603.7	605.6	615.1	617.0
65°	493.8	511.0	530.1	539.7	554.9	551.1	569.3	571.2	581.7	582.6
67.5°	459.4	476.6	495.7	506.2	520.6	518.6	535.8	539.7	548.3	550.2
70°	426.0	443.2	463.2	473.8	488.1	487.1	503.4	506.2	515.8	516.7
72.5°	393.5	410.7	430.8	443.2	455.6	454.7	470.9	474.7	484.3	485.2
75°	362.0	380.1	399.3	412.6	425.0	424.1	440.3	444.1	452.7	453.7
77.5°	332.4	350.5	370.6	384.0	394.5	395.4	409.8	413.6	422.2	425.0
80°	304.7	321.9	341.0	355.3	364.9	366.8	380.1	384.9	391.6	395.4
82.5°	277.9	295.1	314.2	327.6	337.2	339.1	351.5	357.2	363.9	366.8
85°	252.2	269.4	287.5	301.8	310.4	311.4	323.8	329.5	335.3	340.0
87.5°	227.3	244.5	261.7	277.0	284.6	286.5	298.0	303.7	308.5	313.3
90°	202.5	219.7	236.9	251.2	258.8	259.8	272.2	277.9	282.7	286.5
92.5°	179.6	196.8	214.0	228.3	235.0	236.9	247.4	254.1	257.9	261.7
95°	157.6	174.8	190.1	205.4	212.0	214.9	224.5	230.2	235.0	236.9
97.5°	138.5	153.8	168.1	183.4	189.1	192.0	201.5	208.2	212.0	214.0
100°	120.3	134.7	148.0	162.4	168.1	171.0	179.6	185.3	189.1	192.0
102.5°	104.1	117.5	129.9	143.3	149.0	150.9	158.6	164.3	168.1	171.0
105°	89.8	102.2	113.7	126.1	130.9	133.7	140.4	145.2	149.0	150.9
107.5°	76.4	88.8	98.4	109.8	114.6	116.5	123.2	128.9	131.8	132.8
110°	65.0	75.5	85.0	94.6	100.3	102.2	107.9	112.7	115.6	116.5





TEST NUMBER: P893553  
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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	54.4	64.0	72.6	81.2	86.0	87.9	93.6	98.4	100.3	101.2
115°	44.9	54.4	61.1	69.7	73.5	75.5	80.2	85.0	86.0	87.9
117.5°	36.3	44.9	51.6	58.3	62.1	64.0	67.8	71.6	73.5	74.5
120°	29.6	36.3	42.0	48.7	51.6	53.5	57.3	61.1	62.1	63.0
122.5°	23.9	29.6	34.4	40.1	43.0	44.9	47.8	50.6	51.6	52.5
125°	18.1	23.9	27.7	32.5	35.3	36.3	39.2	42.0	43.0	43.9
127.5°	14.3	18.1	22.0	25.8	27.7	28.7	31.5	33.4	34.4	35.3
130°	10.5	13.4	16.2	20.1	22.0	22.9	24.8	26.7	27.7	27.7
132.5°	7.6	10.5	12.4	15.3	16.2	17.2	19.1	21.0	21.0	22.0
135°	4.8	6.7	8.6	10.5	12.4	12.4	14.3	15.3	16.2	16.2
137.5°	3.8	4.8	5.7	7.6	8.6	9.6	9.6	11.5	11.5	11.5
140°	2.9	3.8	3.8	4.8	5.7	6.7	6.7	7.6	7.6	7.6
142.5°	1.9	2.9	2.9	3.8	3.8	4.8	4.8	4.8	5.7	5.7
145°	1.9	1.9	1.9	2.9	2.9	2.9	2.9	3.8	3.8	3.8
147.5°	1.0	1.0	1.9	1.9	1.9	1.9	1.9	2.9	2.9	2.9
150°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9	1.9	1.9
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°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



TEST NUMBER: P893553  
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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	17.80	19.33	18.27	19.79	20.28	19.37	20.90	19.84	21.36	21.85
	3H	19.47	20.88	19.96	21.34	21.87	21.99	23.40	22.48	23.86	24.39
	4H	20.07	21.40	20.58	21.89	22.43	23.31	24.64	23.81	25.12	25.66
	6H	20.47	21.71	20.99	22.21	22.77	24.71	25.95	25.23	26.45	27.01
	8H	20.59	21.78	21.12	22.30	22.86	25.46	26.65	25.99	27.17	27.73
	12H	20.66	21.80	21.20	22.32	22.91	26.31	27.45	26.85	27.97	28.56
4H	2H	18.73	20.06	19.23	20.54	21.08	19.92	21.25	20.42	21.74	22.28
	3H	20.70	21.84	21.22	22.37	22.93	22.84	23.97	23.35	24.50	25.06
	4H	21.48	22.52	22.02	23.06	23.65	24.36	25.40	24.90	25.94	26.54
	6H	22.06	22.98	22.62	23.55	24.15	26.00	26.92	26.56	27.49	28.10
	8H	22.24	23.11	22.80	23.67	24.30	26.88	27.75	27.45	28.32	28.94
	12H	22.37	23.15	22.95	23.75	24.37	27.89	28.68	28.47	29.27	29.90
8H	4H	22.36	23.23	22.92	23.79	24.41	24.72	25.59	25.28	26.15	26.77
	6H	23.24	23.98	23.83	24.58	25.21	26.62	27.36	27.22	27.97	28.59
	8H	23.59	24.25	24.19	24.87	25.51	27.71	28.37	28.31	28.99	29.63
	12H	23.86	24.46	24.47	25.06	25.77	28.97	29.57	29.58	30.17	30.88
12H	4H	22.64	23.42	23.22	24.02	24.64	24.76	25.55	25.35	26.14	26.77
	6H	23.69	24.36	24.30	24.97	25.61	26.73	27.40	27.34	28.02	28.66
	8H	24.21	24.80	24.82	25.41	26.11	27.93	28.52	28.54	29.13	29.84