

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: P893554

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893554
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-L835
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

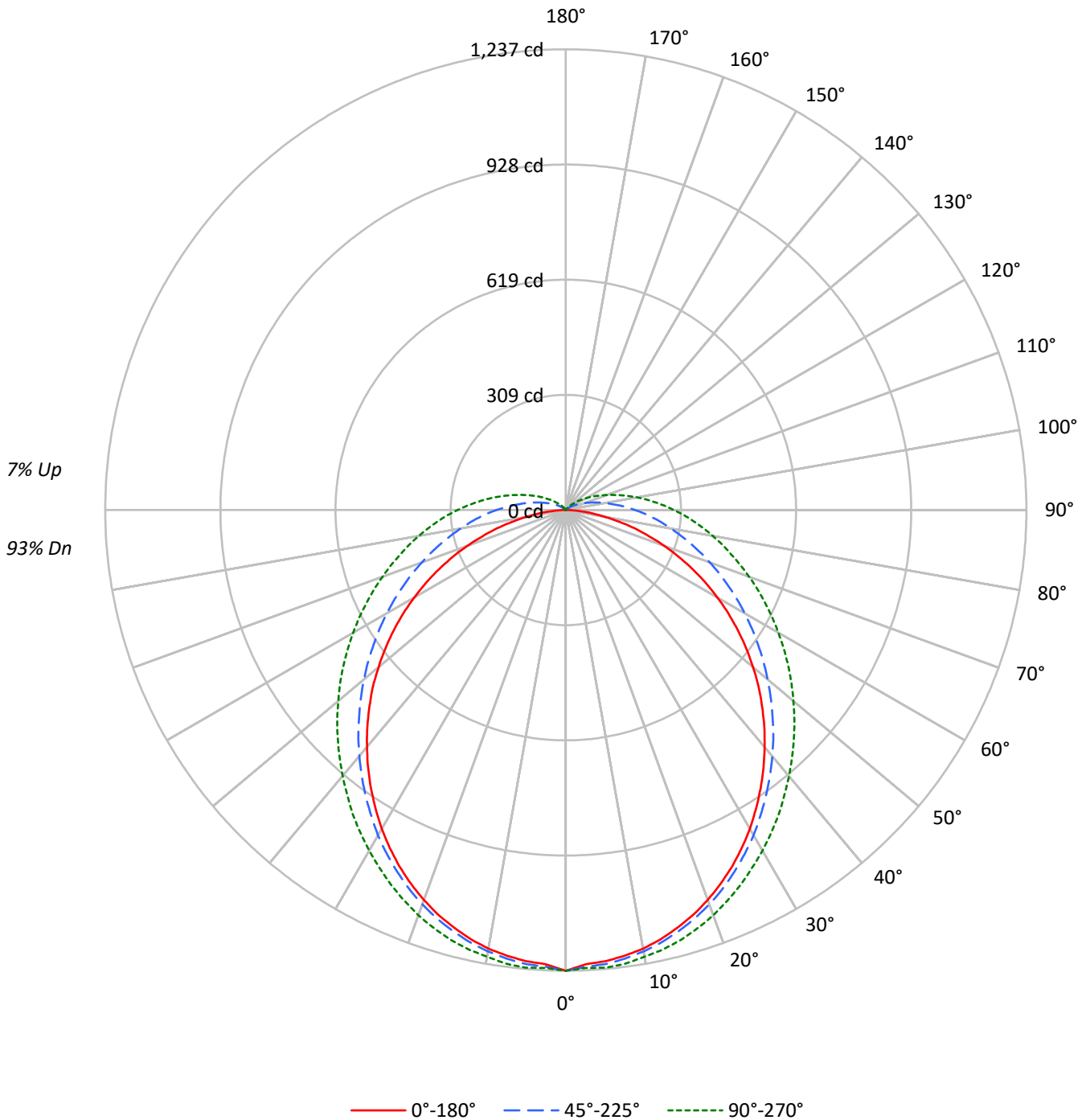
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4096.0 lumens
Efficiency: N/A
Efficacy: 137.5 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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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°	8803	8803	8803
5°	8685	8740	8809
10°	8639	8694	8799
15°	8550	8622	8800
20°	8437	8532	8767
25°	8293	8413	8718
30°	8121	8288	8678
35°	7921	8140	8661
40°	7716	8012	8659
45°	7501	7901	8719
50°	7266	7834	8831
55°	7001	7819	9043
60°	6695	7893	9382
65°	6323	8101	9943
70°	5860	8560	10897
75°	5297	9528	12643
80°	4483	11743	16422
85°	3633	19127	28140

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 51805 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	2.9
10°-20°	333.4	8.1
20°-30°	499.2	12.2
30°-40°	595.2	14.5
40°-50°	617.3	15.1
50°-60°	572.7	14.0
60°-70°	477.8	11.7
70°-80°	356.2	8.7
80°-90°	237.2	5.8
90°-100°	144.4	3.5
100°-110°	80.6	2.0
110°-120°	40.3	1.0
120°-130°	16.8	0.4
130°-140°	5.3	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°	949.6	23.2
0°-40°	1544.9	37.7
0°-60°	2734.9	66.8
0°-90°	3806.1	92.9
90°-120°	265.3	6.5
90°-150°	288.8	7.1
90°-180°	290.0	7.1
0°-180°	4096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1216	1244	1224	1230	1233	115
15°	1161	1191	1170	1192	1195	327
25°	1056	1084	1072	1102	1110	486
35°	912	936	937	984	997	570
45°	746	765	785	847	866	575
55°	564	584	630	704	729	505
65°	376	406	481	562	591	372
75°	193	246	347	431	460	204
85°	44	122	234	315	345	50
90°	2	80	186	262	290	3
95°	0	49	143	215	240	0
105°	0	16	78	133	153	0
115°	1	4	37	74	89	1
125°	1	1	14	36	44	1
135°	1	1	4	13	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°	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3
2.5°	1220.8	1222.8	1240.2	1239.2	1236.3	1247.9	1250.8	1241.2	1225.7	1241.2	1227.6
5°	1216.0	1217.9	1235.4	1234.4	1231.5	1244.1	1245.0	1236.3	1220.8	1236.3	1223.7
7.5°	1207.3	1209.2	1226.6	1225.7	1223.7	1236.3	1235.4	1228.6	1212.1	1228.6	1215.0
10°	1195.7	1196.6	1215.0	1213.1	1212.1	1224.7	1221.8	1216.0	1199.5	1216.0	1203.4
12.5°	1180.2	1181.1	1199.5	1197.6	1197.6	1209.2	1205.3	1200.5	1184.0	1199.5	1188.9
15°	1160.8	1161.8	1179.2	1178.2	1178.2	1190.8	1185.0	1181.1	1165.7	1182.1	1170.5
17.5°	1139.5	1138.5	1156.9	1155.0	1156.9	1168.6	1160.8	1158.9	1144.4	1159.8	1150.2
20°	1114.3	1114.3	1130.8	1129.8	1132.7	1143.4	1133.7	1134.7	1120.1	1136.6	1126.9
22.5°	1086.3	1085.3	1101.8	1101.8	1104.7	1115.3	1104.7	1107.6	1093.0	1108.5	1100.8
25°	1056.3	1054.3	1070.8	1070.8	1075.6	1084.3	1072.7	1076.6	1063.0	1078.5	1071.7
27.5°	1023.3	1020.4	1036.9	1037.9	1041.7	1050.4	1037.9	1043.7	1031.1	1045.6	1040.8
30°	988.5	985.6	1002.0	1003.0	1007.8	1014.6	1002.0	1009.8	998.2	1012.7	1008.8
32.5°	950.7	948.8	964.3	966.2	971.1	975.9	964.3	972.0	962.3	976.9	973.0
35°	912.0	910.1	924.6	927.5	932.3	936.2	923.6	934.3	925.6	939.1	937.2
37.5°	872.3	869.4	884.9	886.8	892.6	894.6	883.0	895.5	887.8	901.3	900.4
40°	830.7	827.8	843.3	845.2	851.0	851.0	841.3	854.9	849.1	861.7	862.6
42.5°	789.0	786.1	799.7	803.6	808.4	808.4	798.7	813.2	809.4	822.0	824.9
45°	745.5	742.6	755.2	759.0	764.8	764.8	755.2	771.6	768.7	781.3	785.2
47.5°	702.9	699.0	710.6	714.5	720.3	719.3	711.6	728.0	727.1	739.7	746.4
50°	656.4	653.5	665.1	669.0	675.8	673.8	668.0	685.4	685.4	698.0	707.7
52.5°	610.9	608.0	619.6	623.5	629.3	629.3	623.5	641.9	644.8	657.4	669.0
55°	564.4	560.6	572.2	576.0	582.8	583.8	579.0	597.3	603.2	617.7	630.3
57.5°	518.0	516.0	525.7	529.6	538.3	538.3	535.4	554.7	562.5	578.0	592.5
60°	470.5	468.6	477.3	482.1	491.8	493.8	491.8	512.2	522.8	538.3	554.7
62.5°	423.1	421.1	429.9	436.6	447.3	449.2	450.2	471.5	483.1	499.6	518.0
65°	375.6	373.7	382.4	390.2	402.7	405.7	408.6	430.8	444.4	461.8	481.2
67.5°	328.2	327.2	335.9	345.6	359.2	363.1	367.9	391.1	406.6	425.0	446.3
70°	281.7	280.8	289.5	301.1	317.6	322.4	328.2	351.4	370.8	390.2	411.5
72.5°	235.3	236.2	245.9	259.5	277.9	282.7	290.4	314.6	335.9	356.3	378.5
75°	192.7	192.7	203.3	218.8	239.1	245.9	254.6	279.8	302.1	323.4	346.6
77.5°	149.1	149.1	161.7	181.0	203.3	210.1	220.7	246.9	271.1	292.4	315.6
80°	109.4	111.3	125.9	145.2	168.5	177.2	189.8	215.9	242.0	263.3	286.6
82.5°	74.5	77.5	92.9	115.2	138.4	147.2	159.7	187.8	214.0	236.2	260.4
85°	44.5	49.4	65.8	88.1	112.3	122.0	135.5	161.7	187.8	210.1	234.3
87.5°	20.3	27.1	44.5	66.8	90.0	100.7	112.3	137.5	163.6	185.9	211.1
90°	1.9	11.6	29.0	48.4	70.7	80.4	92.0	116.2	141.3	161.7	185.9
92.5°	0.0	4.8	17.4	34.9	54.2	63.9	74.5	97.8	120.1	140.4	163.6
95°	0.0	1.9	9.7	24.2	40.7	49.4	59.1	80.4	102.6	122.0	143.3
97.5°	0.0	1.0	5.8	16.5	30.0	37.8	46.5	65.8	86.2	104.6	123.9
100°	0.0	1.0	2.9	10.6	22.3	28.1	36.8	53.2	71.6	88.1	107.5
102.5°	0.0	0.0	1.9	6.8	16.5	21.3	28.1	42.6	59.1	74.5	92.0
105°	0.0	0.0	1.0	4.8	11.6	15.5	21.3	33.9	48.4	62.0	78.4
107.5°	0.0	0.0	1.0	2.9	7.7	11.6	16.5	26.1	38.7	51.3	65.8
110°	1.0	1.0	1.0	1.9	5.8	8.7	11.6	20.3	31.9	42.6	55.2



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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	3.9	5.8	8.7	15.5	25.2	33.9	45.5
115°	1.0	1.0	1.0	1.0	2.9	3.9	5.8	11.6	19.4	27.1	36.8
117.5°	1.0	1.0	1.0	1.0	1.9	2.9	3.9	8.7	14.5	21.3	30.0
120°	1.0	1.0	1.0	1.0	1.0	1.9	2.9	5.8	11.6	16.5	24.2
122.5°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	4.8	8.7	12.6	18.4
125°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	5.8	9.7	14.5
127.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.9	6.8	10.6
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	4.8	7.7
132.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.9	5.8
135°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.9
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°	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3
2.5°	1231.5	1234.4	1237.3	1229.5	1234.4	1243.1	1246.0	1234.4	1238.3	1230.5
5°	1227.6	1229.5	1233.4	1223.7	1230.5	1238.3	1243.1	1233.4	1239.2	1233.4
7.5°	1219.9	1221.8	1226.6	1217.0	1225.7	1232.5	1238.3	1228.6	1234.4	1228.6
10°	1208.2	1211.2	1217.9	1206.3	1217.0	1222.8	1228.6	1217.9	1223.7	1217.9
12.5°	1193.7	1198.6	1204.4	1193.7	1204.4	1209.2	1217.0	1206.3	1213.1	1208.2
15°	1176.3	1181.1	1188.9	1178.2	1191.8	1195.7	1203.4	1192.8	1199.5	1194.7
17.5°	1156.0	1161.8	1171.5	1158.9	1174.4	1177.3	1185.0	1175.3	1182.1	1177.3
20°	1132.7	1138.5	1148.2	1136.6	1152.1	1154.0	1162.7	1154.0	1160.8	1157.9
22.5°	1105.6	1112.4	1122.1	1111.4	1127.9	1127.9	1138.5	1129.8	1137.6	1134.7
25°	1077.5	1085.3	1095.9	1084.3	1101.8	1101.8	1113.4	1104.7	1112.4	1110.5
27.5°	1047.5	1056.3	1068.8	1057.2	1074.6	1073.7	1085.3	1077.5	1086.3	1083.4
30°	1015.6	1025.3	1037.9	1028.2	1046.6	1044.6	1056.3	1049.5	1057.2	1056.3
32.5°	980.7	991.4	1006.9	996.2	1014.6	1012.7	1027.2	1019.5	1029.1	1027.2
35°	945.9	957.5	973.0	963.3	983.6	980.7	995.3	988.5	998.2	997.2
37.5°	910.1	922.6	938.1	930.4	949.8	946.8	962.3	956.5	967.2	964.3
40°	873.3	885.9	902.3	895.5	915.9	912.0	928.5	923.6	934.3	932.3
42.5°	836.5	850.0	866.5	862.6	882.0	878.1	894.6	890.7	901.3	899.4
45°	798.7	813.2	830.7	826.8	847.1	843.3	859.7	856.8	867.5	866.5
47.5°	761.0	776.5	793.9	791.9	811.3	807.4	824.9	822.0	832.6	832.6
50°	722.2	739.7	757.1	756.1	775.5	771.6	787.1	787.1	798.7	797.8
52.5°	683.5	701.9	720.3	720.3	739.7	735.8	753.2	752.3	763.9	763.9
55°	646.7	663.2	681.6	685.4	703.8	698.0	716.4	718.4	728.0	729.0
57.5°	609.9	627.4	645.8	650.6	668.0	664.2	681.6	683.5	693.2	694.2
60°	573.1	589.6	608.0	614.8	632.2	628.3	645.8	647.7	658.3	659.3
62.5°	536.4	552.8	573.1	579.9	596.4	593.5	611.9	613.8	623.5	625.4
65°	500.5	518.0	537.3	547.0	562.5	558.6	577.0	579.0	589.6	590.6
67.5°	465.7	483.1	502.5	513.1	527.6	525.7	543.1	547.0	555.7	557.7
70°	431.8	449.2	469.6	480.2	494.7	493.8	510.2	513.1	522.8	523.8
72.5°	398.9	416.3	436.6	449.2	461.8	460.8	477.3	481.2	490.9	491.8
75°	366.9	385.3	404.7	418.2	430.8	429.9	446.3	450.2	458.9	459.9
77.5°	336.9	355.3	375.6	389.2	399.8	400.8	415.3	419.2	427.9	430.8
80°	308.8	326.3	345.6	360.2	369.8	371.8	385.3	390.2	396.9	400.8
82.5°	281.7	299.2	318.5	332.1	341.8	343.7	356.3	362.1	368.9	371.8
85°	255.6	273.0	291.4	305.9	314.6	315.6	328.2	334.0	339.8	344.7
87.5°	230.4	247.8	265.3	280.8	288.5	290.4	302.1	307.9	312.7	317.6
90°	205.2	222.7	240.1	254.6	262.4	263.3	275.9	281.7	286.6	290.4
92.5°	182.0	199.4	216.9	231.4	238.2	240.1	250.8	257.5	261.4	265.3
95°	159.7	177.2	192.7	208.2	214.9	217.8	227.5	233.3	238.2	240.1
97.5°	140.4	155.9	170.4	185.9	191.7	194.6	204.3	211.1	214.9	216.9
100°	122.0	136.5	150.1	164.6	170.4	173.3	182.0	187.8	191.7	194.6
102.5°	105.5	119.1	131.7	145.2	151.0	153.0	160.7	166.5	170.4	173.3
105°	91.0	103.6	115.2	127.8	132.6	135.5	142.3	147.2	151.0	153.0
107.5°	77.5	90.0	99.7	111.3	116.2	118.1	124.9	130.7	133.6	134.6
110°	65.8	76.5	86.2	95.8	101.7	103.6	109.4	114.2	117.1	118.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	55.2	64.9	73.6	82.3	87.1	89.1	94.9	99.7	101.7	102.6
115°	45.5	55.2	62.0	70.7	74.5	76.5	81.3	86.2	87.1	89.1
117.5°	36.8	45.5	52.3	59.1	62.9	64.9	68.7	72.6	74.5	75.5
120°	30.0	36.8	42.6	49.4	52.3	54.2	58.1	62.0	62.9	63.9
122.5°	24.2	30.0	34.9	40.7	43.6	45.5	48.4	51.3	52.3	53.2
125°	18.4	24.2	28.1	32.9	35.8	36.8	39.7	42.6	43.6	44.5
127.5°	14.5	18.4	22.3	26.1	28.1	29.0	31.9	33.9	34.9	35.8
130°	10.6	13.6	16.5	20.3	22.3	23.2	25.2	27.1	28.1	28.1
132.5°	7.7	10.6	12.6	15.5	16.5	17.4	19.4	21.3	21.3	22.3
135°	4.8	6.8	8.7	10.6	12.6	12.6	14.5	15.5	16.5	16.5
137.5°	3.9	4.8	5.8	7.7	8.7	9.7	9.7	11.6	11.6	11.6
140°	2.9	3.9	3.9	4.8	5.8	6.8	6.8	7.7	7.7	7.7
142.5°	1.9	2.9	2.9	3.9	3.9	4.8	4.8	4.8	5.8	5.8
145°	1.9	1.9	1.9	2.9	2.9	2.9	2.9	3.9	3.9	3.9
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



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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	17.84	19.38	18.32	19.84	20.33	19.42	20.95	19.89	21.41	21.90
	3H	19.52	20.92	20.00	21.39	21.92	22.04	23.44	22.52	23.91	24.44
	4H	20.12	21.45	20.62	21.93	22.48	23.35	24.68	23.86	25.17	25.71
	6H	20.52	21.76	21.03	22.26	22.81	24.76	26.00	25.27	26.50	27.05
	8H	20.63	21.82	21.16	22.34	22.91	25.51	26.69	26.04	27.22	27.78
	12H	20.71	21.85	21.25	22.37	22.96	26.36	27.50	26.89	28.01	28.61
4H	2H	18.77	20.10	19.28	20.59	21.13	19.97	21.30	20.47	21.78	22.32
	3H	20.75	21.89	21.27	22.42	22.98	22.88	24.02	23.40	24.55	25.11
	4H	21.53	22.57	22.06	23.11	23.70	24.41	25.45	24.94	25.99	26.58
	6H	22.11	23.03	22.66	23.59	24.20	26.05	26.97	26.61	27.54	28.14
	8H	22.29	23.16	22.85	23.72	24.34	26.93	27.80	27.49	28.36	28.98
	12H	22.41	23.20	23.00	23.79	24.42	27.94	28.72	28.52	29.32	29.94
8H	4H	22.41	23.27	22.97	23.84	24.46	24.77	25.64	25.33	26.20	26.82
	6H	23.29	24.02	23.88	24.63	25.26	26.67	27.41	27.26	28.01	28.64
	8H	23.64	24.30	24.24	24.92	25.56	27.75	28.42	28.36	29.04	29.68
	12H	23.91	24.50	24.51	25.11	25.81	29.02	29.61	29.63	30.22	30.92
12H	4H	22.68	23.47	23.27	24.06	24.69	24.81	25.60	25.39	26.19	26.82
	6H	23.74	24.40	24.34	25.02	25.66	26.78	27.45	27.39	28.06	28.70
	8H	24.26	24.85	24.86	25.46	26.16	27.98	28.57	28.58	29.18	29.88