

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: P895040

Luminaire Tested: 8TMB-4SL-RND-UNV-L850

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895040  
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: 8TMB-4SL-RND-UNV-L850  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

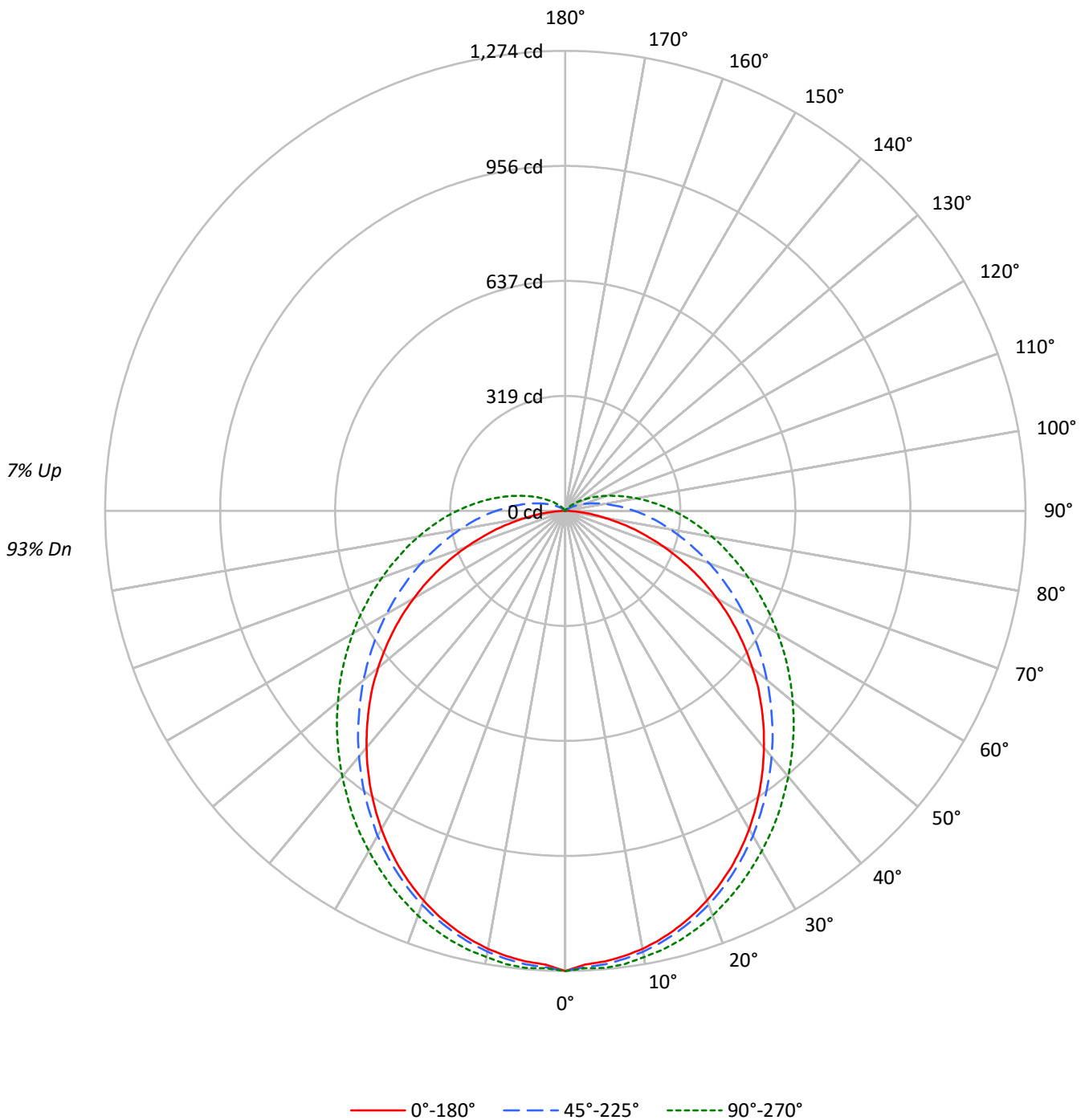
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4219.0 lumens  
Efficiency: N/A  
Efficacy: 152.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 4.5  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P895040  
CATALOG NUMBER: 8TMB-4SL-RND-UNV-L850

### 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°	4522	4522	4522
5°	4461	4490	4525
10°	4437	4466	4520
15°	4392	4429	4520
20°	4334	4383	4503
25°	4259	4322	4478
30°	4172	4257	4458
35°	4069	4181	4449
40°	3963	4115	4448
45°	3853	4058	4478
50°	3732	4024	4536
55°	3597	4016	4645
60°	3439	4055	4819
65°	3248	4161	5107
70°	3011	4397	5597
75°	2720	4894	6494
80°	2303	6032	8435
85°	1869	9823	14452

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 26607 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.5	2.9
10°-20°	343.4	8.1
20°-30°	514.2	12.2
30°-40°	613.1	14.5
40°-50°	635.9	15.1
50°-60°	589.9	14.0
60°-70°	492.1	11.7
70°-80°	366.9	8.7
80°-90°	244.3	5.8
90°-100°	148.7	3.5
100°-110°	83.1	2.0
110°-120°	41.5	1.0
120°-130°	17.3	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°	978.1	23.2
0°-40°	1591.2	37.7
0°-60°	2817.0	66.8
0°-90°	3920.4	92.9
90°-120°	273.3	6.5
90°-150°	297.4	7.0
90°-180°	299.0	7.1
0°-180°	4219.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1252	1281	1260	1268	1270	119
15°	1196	1227	1206	1228	1231	337
25°	1088	1117	1104	1135	1144	501
35°	939	964	965	1013	1027	588
45°	768	788	809	873	892	593
55°	581	601	649	725	751	520
65°	387	418	496	579	608	383
75°	198	253	357	444	474	210
85°	46	126	241	324	355	52
90°	2	83	192	270	299	3
95°	0	51	148	221	247	0
105°	0	16	81	137	158	0
115°	1	4	38	77	92	1
125°	1	1	15	37	46	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: P895040  
 CATALOG NUMBER: 8TMB-4SL-RND-UNV-L850

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4
2.5°	1257.5	1259.5	1277.4	1276.4	1273.5	1285.4	1288.4	1278.4	1262.5	1278.4	1264.5
5°	1252.5	1254.5	1272.5	1271.5	1268.5	1281.4	1282.4	1273.5	1257.5	1273.5	1260.5
7.5°	1243.5	1245.5	1263.5	1262.5	1260.5	1273.5	1272.5	1265.5	1248.5	1265.5	1251.5
10°	1231.6	1232.6	1251.5	1249.5	1248.5	1261.5	1258.5	1252.5	1235.6	1252.5	1239.5
12.5°	1215.6	1216.6	1235.6	1233.6	1233.6	1245.5	1241.5	1236.6	1219.6	1235.6	1224.6
15°	1195.7	1196.7	1214.6	1213.6	1213.6	1226.6	1220.6	1216.6	1200.7	1217.6	1205.6
17.5°	1173.7	1172.7	1191.7	1189.7	1191.7	1203.6	1195.7	1193.7	1178.7	1194.7	1184.7
20°	1147.8	1147.8	1164.8	1163.8	1166.7	1177.7	1167.7	1168.7	1153.8	1170.7	1160.8
22.5°	1118.9	1117.9	1134.8	1134.8	1137.8	1148.8	1137.8	1140.8	1125.9	1141.8	1133.8
25°	1088.0	1086.0	1102.9	1102.9	1107.9	1116.9	1104.9	1108.9	1094.9	1110.9	1103.9
27.5°	1054.1	1051.1	1068.0	1069.0	1073.0	1082.0	1069.0	1075.0	1062.0	1077.0	1072.0
30°	1018.2	1015.2	1032.1	1033.1	1038.1	1045.1	1032.1	1040.1	1028.1	1043.1	1039.1
32.5°	979.3	977.3	993.2	995.2	1000.2	1005.2	993.2	1001.2	991.2	1006.2	1002.2
35°	939.4	937.4	952.3	955.3	960.3	964.3	951.3	962.3	953.3	967.3	965.3
37.5°	898.5	895.5	911.5	913.5	919.4	921.4	909.5	922.4	914.5	928.4	927.4
40°	855.6	852.6	868.6	870.6	876.6	876.6	866.6	880.5	874.6	887.5	888.5
42.5°	812.7	809.7	823.7	827.7	832.7	832.7	822.7	837.7	833.7	846.6	849.6
45°	767.9	764.9	777.8	781.8	787.8	787.8	777.8	794.8	791.8	804.8	808.7
47.5°	724.0	720.0	732.0	735.9	741.9	740.9	733.0	749.9	748.9	761.9	768.9
50°	676.1	673.1	685.1	689.1	696.1	694.1	688.1	706.0	706.0	719.0	729.0
52.5°	629.2	626.3	638.2	642.2	648.2	648.2	642.2	661.2	664.1	677.1	689.1
55°	581.4	577.4	589.4	593.3	600.3	601.3	596.3	615.3	621.3	636.2	649.2
57.5°	533.5	531.5	541.5	545.5	554.5	554.5	551.5	571.4	579.4	595.3	610.3
60°	484.6	482.7	491.6	496.6	506.6	508.6	506.6	527.5	538.5	554.5	571.4
62.5°	435.8	433.8	442.8	449.7	460.7	462.7	463.7	485.6	497.6	514.6	533.5
65°	386.9	384.9	393.9	401.9	414.8	417.8	420.8	443.8	457.7	475.7	495.6
67.5°	338.1	337.1	346.0	356.0	370.0	374.0	378.9	402.9	418.8	437.8	459.7
70°	290.2	289.2	298.2	310.1	327.1	332.1	338.1	362.0	381.9	401.9	423.8
72.5°	242.3	243.3	253.3	267.3	286.2	291.2	299.2	324.1	346.0	367.0	389.9
75°	198.4	198.4	209.4	225.4	246.3	253.3	262.3	288.2	311.1	333.1	357.0
77.5°	153.6	153.6	166.5	186.5	209.4	216.4	227.4	254.3	279.2	301.2	325.1
80°	112.7	114.7	129.6	149.6	173.5	182.5	195.5	222.4	249.3	271.2	295.2
82.5°	76.8	79.8	95.7	118.7	142.6	151.6	164.5	193.5	220.4	243.3	268.3
85°	45.9	50.9	67.8	90.7	115.7	125.6	139.6	166.5	193.5	216.4	241.3
87.5°	20.9	27.9	45.9	68.8	92.7	103.7	115.7	141.6	168.5	191.5	217.4
90°	2.0	12.0	29.9	49.9	72.8	82.8	94.7	119.7	145.6	166.5	191.5
92.5°	0.0	5.0	17.9	35.9	55.8	65.8	76.8	100.7	123.7	144.6	168.5
95°	0.0	2.0	10.0	24.9	41.9	50.9	60.8	82.8	105.7	125.6	147.6
97.5°	0.0	1.0	6.0	17.0	30.9	38.9	47.9	67.8	88.8	107.7	127.6
100°	0.0	1.0	3.0	11.0	22.9	28.9	37.9	54.8	73.8	90.7	110.7
102.5°	0.0	0.0	2.0	7.0	17.0	21.9	28.9	43.9	60.8	76.8	94.7
105°	0.0	0.0	1.0	5.0	12.0	16.0	21.9	34.9	49.9	63.8	80.8
107.5°	0.0	0.0	1.0	3.0	8.0	12.0	17.0	26.9	39.9	52.9	67.8
110°	1.0	1.0	1.0	2.0	6.0	9.0	12.0	20.9	32.9	43.9	56.8



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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	4.0	6.0	9.0	16.0	25.9	34.9	46.9
115°	1.0	1.0	1.0	1.0	3.0	4.0	6.0	12.0	19.9	27.9	37.9
117.5°	1.0	1.0	1.0	1.0	2.0	3.0	4.0	9.0	15.0	21.9	30.9
120°	1.0	1.0	1.0	1.0	1.0	2.0	3.0	6.0	12.0	17.0	24.9
122.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	5.0	9.0	13.0	18.9
125°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	6.0	10.0	15.0
127.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0	7.0	11.0
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	5.0	8.0
132.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0	6.0
135°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0
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°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4
2.5°	1268.5	1271.5	1274.4	1266.5	1271.5	1280.4	1283.4	1271.5	1275.4	1267.5
5°	1264.5	1266.5	1270.5	1260.5	1267.5	1275.4	1280.4	1270.5	1276.4	1270.5
7.5°	1256.5	1258.5	1263.5	1253.5	1262.5	1269.5	1275.4	1265.5	1271.5	1265.5
10°	1244.5	1247.5	1254.5	1242.5	1253.5	1259.5	1265.5	1254.5	1260.5	1254.5
12.5°	1229.6	1234.6	1240.5	1229.6	1240.5	1245.5	1253.5	1242.5	1249.5	1244.5
15°	1211.6	1216.6	1224.6	1213.6	1227.6	1231.6	1239.5	1228.6	1235.6	1230.6
17.5°	1190.7	1196.7	1206.6	1193.7	1209.6	1212.6	1220.6	1210.6	1217.6	1212.6
20°	1166.7	1172.7	1182.7	1170.7	1186.7	1188.7	1197.7	1188.7	1195.7	1192.7
22.5°	1138.8	1145.8	1155.8	1144.8	1161.8	1161.8	1172.7	1163.8	1171.7	1168.7
25°	1109.9	1117.9	1128.9	1116.9	1134.8	1134.8	1146.8	1137.8	1145.8	1143.8
27.5°	1079.0	1088.0	1100.9	1089.0	1106.9	1105.9	1117.9	1109.9	1118.9	1115.9
30°	1046.1	1056.1	1069.0	1059.0	1078.0	1076.0	1088.0	1081.0	1089.0	1088.0
32.5°	1010.2	1021.2	1037.1	1026.1	1045.1	1043.1	1058.1	1050.1	1060.0	1058.1
35°	974.3	986.3	1002.2	992.2	1013.2	1010.2	1025.1	1018.2	1028.1	1027.1
37.5°	937.4	950.4	966.3	958.3	978.3	975.3	991.2	985.3	996.2	993.2
40°	899.5	912.5	929.4	922.4	943.4	939.4	956.3	951.3	962.3	960.3
42.5°	861.6	875.6	892.5	888.5	908.5	904.5	921.4	917.4	928.4	926.4
45°	822.7	837.7	855.6	851.6	872.6	868.6	885.5	882.5	893.5	892.5
47.5°	783.8	799.8	817.7	815.7	835.7	831.7	849.6	846.6	857.6	857.6
50°	743.9	761.9	779.8	778.8	798.8	794.8	810.7	810.7	822.7	821.7
52.5°	704.0	723.0	741.9	741.9	761.9	757.9	775.8	774.8	786.8	786.8
55°	666.1	683.1	702.0	706.0	725.0	719.0	737.9	739.9	749.9	750.9
57.5°	628.2	646.2	665.1	670.1	688.1	684.1	702.0	704.0	714.0	715.0
60°	590.4	607.3	626.3	633.2	651.2	647.2	665.1	667.1	678.1	679.1
62.5°	552.5	569.4	590.4	597.3	614.3	611.3	630.2	632.2	642.2	644.2
65°	515.6	533.5	553.5	563.4	579.4	575.4	594.3	596.3	607.3	608.3
67.5°	479.7	497.6	517.6	528.5	543.5	541.5	559.4	563.4	572.4	574.4
70°	444.8	462.7	483.7	494.6	509.6	508.6	525.5	528.5	538.5	539.5
72.5°	410.9	428.8	449.7	462.7	475.7	474.7	491.6	495.6	505.6	506.6
75°	377.9	396.9	416.8	430.8	443.8	442.8	459.7	463.7	472.7	473.7
77.5°	347.0	366.0	386.9	400.9	411.9	412.8	427.8	431.8	440.8	443.8
80°	318.1	336.1	356.0	371.0	380.9	382.9	396.9	401.9	408.9	412.8
82.5°	290.2	308.1	328.1	342.0	352.0	354.0	367.0	373.0	379.9	382.9
85°	263.3	281.2	300.2	315.1	324.1	325.1	338.1	344.0	350.0	355.0
87.5°	237.3	255.3	273.2	289.2	297.2	299.2	311.1	317.1	322.1	327.1
90°	211.4	229.4	247.3	262.3	270.2	271.2	284.2	290.2	295.2	299.2
92.5°	187.5	205.4	223.4	238.3	245.3	247.3	258.3	265.3	269.2	273.2
95°	164.5	182.5	198.4	214.4	221.4	224.4	234.3	240.3	245.3	247.3
97.5°	144.6	160.6	175.5	191.5	197.4	200.4	210.4	217.4	221.4	223.4
100°	125.6	140.6	154.6	169.5	175.5	178.5	187.5	193.5	197.4	200.4
102.5°	108.7	122.7	135.6	149.6	155.6	157.6	165.5	171.5	175.5	178.5
105°	93.7	106.7	118.7	131.6	136.6	139.6	146.6	151.6	155.6	157.6
107.5°	79.8	92.7	102.7	114.7	119.7	121.7	128.6	134.6	137.6	138.6
110°	67.8	78.8	88.8	98.7	104.7	106.7	112.7	117.7	120.7	121.7





TEST NUMBER: P895040  
 CATALOG NUMBER: 8TMB-4SL-RND-UNV-L850

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	56.8	66.8	75.8	84.8	89.7	91.7	97.7	102.7	104.7	105.7
115°	46.9	56.8	63.8	72.8	76.8	78.8	83.8	88.8	89.7	91.7
117.5°	37.9	46.9	53.8	60.8	64.8	66.8	70.8	74.8	76.8	77.8
120°	30.9	37.9	43.9	50.9	53.8	55.8	59.8	63.8	64.8	65.8
122.5°	24.9	30.9	35.9	41.9	44.9	46.9	49.9	52.9	53.8	54.8
125°	18.9	24.9	28.9	33.9	36.9	37.9	40.9	43.9	44.9	45.9
127.5°	15.0	18.9	22.9	26.9	28.9	29.9	32.9	34.9	35.9	36.9
130°	11.0	14.0	17.0	20.9	22.9	23.9	25.9	27.9	28.9	28.9
132.5°	8.0	11.0	13.0	16.0	17.0	17.9	19.9	21.9	21.9	22.9
135°	5.0	7.0	9.0	11.0	13.0	13.0	15.0	16.0	17.0	17.0
137.5°	4.0	5.0	6.0	8.0	9.0	10.0	10.0	12.0	12.0	12.0
140°	3.0	4.0	4.0	5.0	6.0	7.0	7.0	8.0	8.0	8.0
142.5°	2.0	3.0	3.0	4.0	4.0	5.0	5.0	5.0	6.0	6.0
145°	2.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0
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



TEST NUMBER: P895040  
 CATALOG NUMBER: 8TMB-4SL-RND-UNV-L850

**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	15.53	17.07	16.00	17.52	18.01	17.10	18.64	17.57	19.09	19.58
	3H	17.21	18.61	17.69	19.08	19.60	19.73	21.13	20.21	21.60	22.12
	4H	17.80	19.14	18.31	19.62	20.16	21.04	22.37	21.54	22.85	23.39
	6H	18.20	19.44	18.72	19.94	20.50	22.44	23.68	22.96	24.18	24.74
	8H	18.32	19.51	18.85	20.03	20.59	23.19	24.38	23.72	24.90	25.46
	12H	18.40	19.54	18.93	20.05	20.64	24.04	25.18	24.58	25.70	26.29
4H	2H	16.46	17.79	16.96	18.27	18.81	17.65	18.98	18.16	19.47	20.01
	3H	18.44	19.57	18.95	20.10	20.66	20.57	21.70	21.09	22.23	22.80
	4H	19.21	20.25	19.75	20.79	21.39	22.09	23.13	22.63	23.67	24.27
	6H	19.79	20.71	20.35	21.28	21.89	23.74	24.66	24.29	25.22	25.83
	8H	19.98	20.84	20.54	21.41	22.03	24.62	25.48	25.18	26.05	26.67
	12H	20.10	20.89	20.68	21.48	22.11	25.62	26.41	26.20	27.00	27.63
8H	4H	20.09	20.96	20.65	21.52	22.14	22.45	23.32	23.02	23.89	24.51
	6H	20.97	21.71	21.57	22.32	22.94	24.36	25.09	24.95	25.70	26.33
	8H	21.32	21.99	21.93	22.60	23.24	25.44	26.10	26.04	26.72	27.36
	12H	21.59	22.19	22.20	22.79	23.50	26.70	27.30	27.31	27.90	28.61
12H	4H	20.37	21.16	20.95	21.75	22.38	22.50	23.28	23.08	23.88	24.50
	6H	21.42	22.09	22.03	22.71	23.35	24.47	25.13	25.07	25.75	26.39
	8H	21.94	22.54	22.55	23.14	23.85	25.66	26.26	26.27	26.86	27.57