

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: P894989

Luminaire Tested: 8TMB-4SL-FLT-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894989
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: 8TMB-4SL-FLT-UNV-L830
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

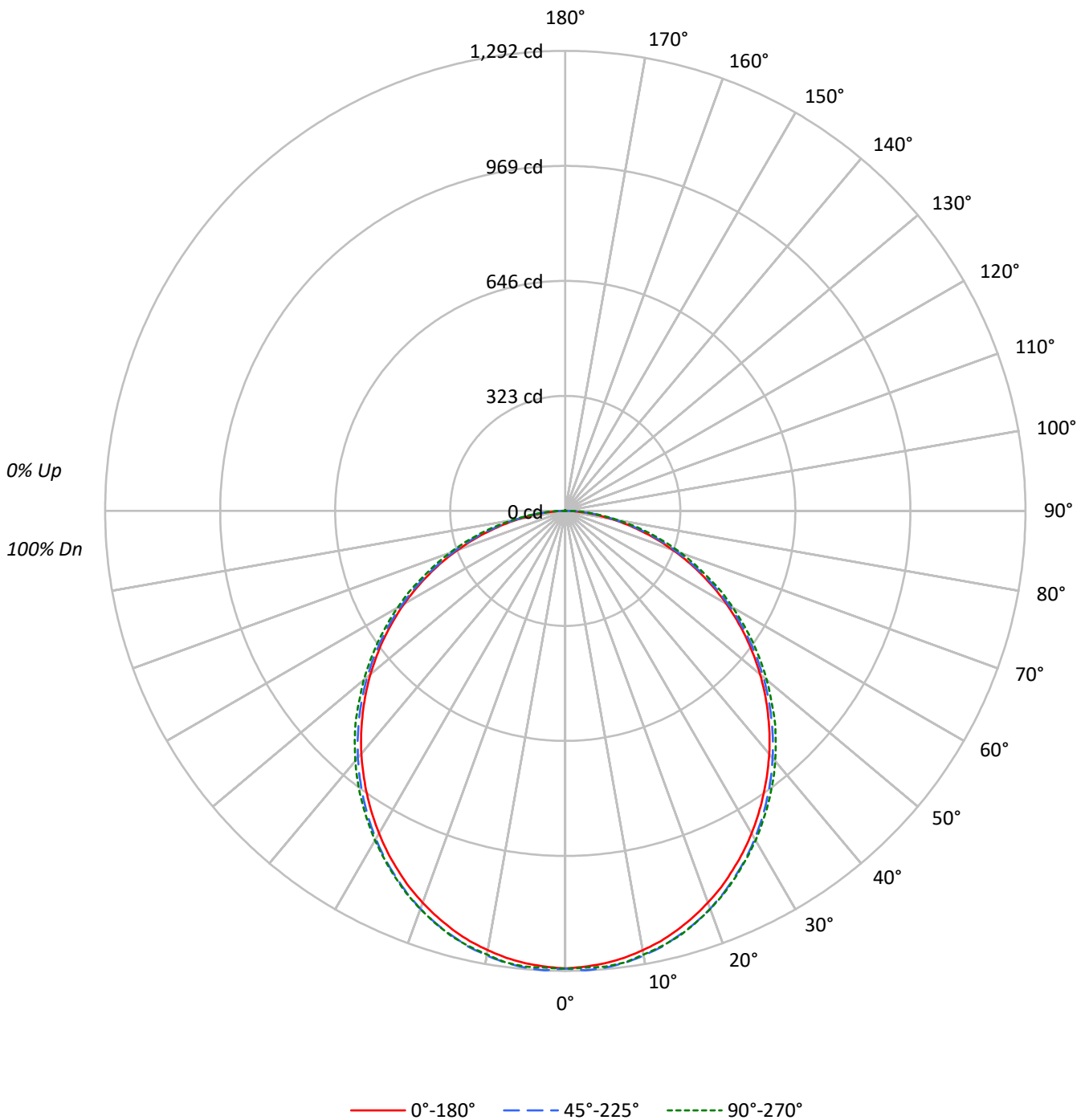
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3566.9 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
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_{in}): 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4559	4559	4559
5°	4543	4587	4577
10°	4514	4568	4558
15°	4475	4534	4541
20°	4422	4489	4493
25°	4357	4427	4438
30°	4285	4359	4378
35°	4205	4278	4315
40°	4126	4196	4248
45°	4036	4102	4173
50°	3941	4004	4076
55°	3835	3893	3974
60°	3711	3772	3858
65°	3546	3617	3712
70°	3337	3435	3591
75°	3069	3198	3404
80°	2709	2922	3075
85°	2337	2679	2874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4173 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.4
10°-20°	346.3	9.7
20°-30°	519.0	14.6
30°-40°	617.5	17.3
40°-50°	633.7	17.8
50°-60°	567.7	15.9
60°-70°	431.3	12.1
70°-80°	250.7	7.0
80°-90°	75.2	2.1
90°-100°	1.8	0.0
100°-110°	0.3	0.0
110°-120°	0.0	0.0
120°-130°	0.1	0.0
130°-140°	0.4	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	986.8	27.7
0°-40°	1604.4	45.0
0°-60°	2805.7	78.7
0°-90°	3562.9	99.9
90°-120°	2.1	0.1
90°-150°	3.1	0.1
90°-180°	4.0	0.1
0°-180°	3566.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1276	1297	1288	1281	1285	121
15°	1218	1242	1234	1232	1236	343
25°	1113	1138	1131	1129	1134	513
35°	971	994	988	990	996	607
45°	804	824	818	824	832	621
55°	620	635	629	637	642	554
65°	422	433	431	438	442	418
75°	224	232	233	242	248	237
85°	57	62	66	71	71	63
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	0
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: P894989

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1281.2	1279.3	1281.2	1280.3	1289.7	1301.0	1299.1	1290.6	1281.2	1284.0	1291.6
5°	1275.6	1274.6	1277.4	1275.6	1285.0	1297.2	1293.4	1285.9	1277.4	1280.3	1287.8
7.5°	1266.2	1266.2	1269.9	1268.0	1276.5	1288.7	1285.0	1278.4	1269.9	1272.7	1280.3
10°	1253.0	1253.9	1258.6	1255.8	1263.3	1276.5	1272.7	1266.2	1258.6	1260.5	1268.0
12.5°	1237.9	1237.9	1243.6	1240.8	1248.3	1260.5	1255.8	1251.1	1243.6	1245.5	1253.9
15°	1218.2	1219.1	1225.7	1222.9	1229.5	1241.7	1237.0	1233.2	1226.6	1227.6	1234.2
17.5°	1195.6	1198.4	1205.0	1202.2	1208.8	1221.0	1215.4	1211.6	1206.0	1206.9	1213.5
20°	1171.1	1174.0	1180.6	1178.7	1183.4	1195.6	1190.0	1188.1	1182.4	1183.4	1189.0
22.5°	1143.9	1146.7	1154.2	1152.3	1157.0	1169.3	1162.7	1161.7	1156.1	1157.0	1161.7
25°	1112.8	1116.6	1125.1	1123.2	1126.9	1138.2	1132.6	1130.7	1126.9	1126.9	1130.7
27.5°	1080.8	1084.6	1094.0	1091.2	1094.0	1106.2	1099.7	1098.7	1095.0	1095.0	1098.7
30°	1046.0	1049.8	1060.1	1057.3	1060.1	1070.5	1063.9	1064.9	1061.1	1061.1	1063.9
32.5°	1009.4	1012.2	1023.5	1021.6	1023.5	1033.8	1027.2	1028.2	1024.4	1025.3	1026.3
35°	970.8	973.6	985.8	984.0	984.9	994.3	989.6	989.6	986.8	985.8	987.7
37.5°	931.3	934.1	949.1	944.4	944.4	953.9	950.1	950.1	947.3	946.3	947.3
40°	890.8	892.7	908.7	904.0	903.1	911.5	908.7	908.7	906.8	904.9	905.9
42.5°	848.5	851.3	867.3	863.5	859.8	869.2	866.4	867.3	864.5	862.6	862.6
45°	804.3	807.1	823.1	821.2	815.6	824.0	821.2	823.1	819.3	817.5	817.5
47.5°	760.1	763.8	778.9	776.1	770.4	778.9	776.1	777.9	774.2	772.3	772.3
50°	714.0	717.7	733.7	729.0	723.4	731.8	730.0	730.9	728.1	726.2	725.3
52.5°	666.9	671.6	686.7	681.1	676.3	683.9	682.9	683.9	680.1	679.2	678.2
55°	619.9	624.6	638.7	632.1	628.4	635.0	633.1	635.0	631.2	630.3	629.3
57.5°	571.0	575.7	588.9	582.3	579.5	585.1	584.2	585.1	582.3	581.3	580.4
60°	523.0	526.8	539.0	532.4	529.6	535.2	533.4	536.2	532.4	532.4	531.5
62.5°	472.2	476.9	489.2	481.6	479.7	484.5	482.6	485.4	483.5	481.6	480.7
65°	422.4	425.2	436.5	429.9	427.1	432.7	431.8	433.7	430.8	431.8	430.8
67.5°	372.5	374.4	385.7	378.2	376.3	381.9	382.9	381.9	380.0	381.0	380.0
70°	321.7	323.6	333.0	326.4	325.5	330.2	332.1	331.1	329.2	330.2	331.1
72.5°	272.8	273.7	282.2	276.6	275.6	281.3	281.3	281.3	281.3	281.3	283.1
75°	223.9	224.8	232.3	227.6	226.7	232.3	232.3	232.3	232.3	234.2	233.3
77.5°	176.8	175.9	183.4	180.6	178.7	184.4	184.4	185.3	187.2	189.1	186.3
80°	132.6	131.7	137.3	133.6	133.6	139.2	138.3	139.2	141.1	142.0	143.0
82.5°	93.1	91.2	95.9	95.0	94.1	98.8	99.7	98.8	101.6	102.5	102.5
85°	57.4	57.4	60.2	58.3	58.3	62.1	62.1	63.0	64.9	65.8	65.8
87.5°	27.3	26.3	29.2	28.2	27.3	30.1	30.1	31.0	32.0	32.9	32.0
90°	0.9	0.9	1.9	1.9	1.9	3.8	3.8	3.8	4.7	4.7	3.8
92.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9
95°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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	0.9



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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	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9
132.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
135°	0.0	0.9	0.9	0.9	0.9	0.0	0.9	0.0	0.0	0.0	0.9
137.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
140°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
142.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
145°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
147.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
150°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9
170°	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9
172.5°	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9
175°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1280.3	1273.7	1270.9	1272.7	1285.9	1272.7	1286.9	1291.6	1274.6	1284.0
5°	1276.5	1269.9	1266.2	1268.0	1281.2	1269.0	1284.0	1289.7	1275.6	1285.0
7.5°	1269.0	1261.5	1259.6	1262.4	1273.7	1263.3	1278.4	1284.0	1269.9	1279.3
10°	1257.7	1251.1	1249.2	1252.0	1262.4	1252.0	1265.2	1269.9	1256.7	1265.2
12.5°	1243.6	1237.0	1235.1	1238.9	1248.3	1238.9	1252.0	1256.7	1243.6	1252.0
15°	1225.7	1219.1	1218.2	1223.8	1232.3	1223.8	1237.0	1240.8	1227.6	1236.1
17.5°	1204.1	1197.5	1198.4	1205.0	1211.6	1204.1	1216.3	1220.1	1207.8	1214.4
20°	1180.6	1173.0	1174.9	1180.6	1186.2	1178.7	1190.9	1194.7	1183.4	1190.0
22.5°	1153.3	1145.7	1147.6	1154.2	1158.0	1151.4	1162.7	1166.4	1157.0	1163.6
25°	1123.2	1116.6	1119.4	1126.0	1128.8	1123.2	1133.5	1136.3	1127.9	1133.5
27.5°	1093.1	1085.5	1089.3	1095.9	1097.8	1092.1	1102.5	1104.4	1095.9	1101.5
30°	1059.2	1051.7	1056.4	1063.9	1063.9	1060.1	1068.6	1070.5	1063.9	1068.6
32.5°	1021.6	1015.9	1021.6	1028.2	1027.2	1024.4	1032.9	1034.7	1029.1	1032.9
35°	984.0	979.2	984.9	991.5	990.5	987.7	996.2	997.1	992.4	996.2
37.5°	945.4	941.6	947.3	952.9	951.0	949.1	956.7	956.7	953.9	957.6
40°	905.9	902.1	906.8	913.4	909.6	909.6	914.3	916.2	913.4	917.2
42.5°	864.5	860.7	866.4	872.0	868.2	867.3	873.0	873.9	872.0	874.8
45°	821.2	817.5	823.1	827.8	824.0	824.0	828.7	828.7	827.8	831.6
47.5°	777.0	774.2	778.9	783.6	779.8	782.6	782.6	782.6	784.5	783.6
50°	731.8	729.0	732.8	738.4	733.7	734.7	736.6	736.6	737.5	738.4
52.5°	684.8	681.1	684.8	691.4	684.8	687.6	688.6	689.5	692.3	690.5
55°	637.8	634.0	637.8	643.4	636.8	640.6	640.6	641.5	644.4	642.5
57.5°	588.9	585.1	590.7	594.5	587.9	591.7	591.7	593.6	595.5	592.6
60°	540.0	537.1	539.0	545.6	539.0	542.8	542.8	542.8	546.5	543.7
62.5°	490.1	488.2	490.1	495.7	489.2	492.9	492.0	492.9	496.7	495.7
65°	439.3	437.4	439.3	444.9	438.4	442.1	442.1	443.1	445.9	442.1
67.5°	389.4	386.6	389.4	394.1	388.5	391.3	391.3	391.3	396.0	394.1
70°	338.6	336.8	338.6	343.3	338.6	340.5	340.5	340.5	345.2	346.2
72.5°	288.8	288.8	290.7	294.4	290.7	294.4	291.6	289.7	296.3	297.3
75°	239.9	240.8	241.8	245.5	241.8	245.5	243.6	241.8	247.4	248.3
77.5°	194.7	194.7	195.7	198.5	195.7	198.5	196.6	196.6	200.4	199.4
80°	148.6	148.6	149.6	152.4	149.6	152.4	150.5	150.5	154.3	150.5
82.5°	108.2	108.2	108.2	111.0	109.1	111.0	110.1	108.2	112.9	109.1
85°	69.6	70.6	70.6	71.5	70.6	71.5	71.5	70.6	73.4	70.6
87.5°	35.7	35.7	35.7	36.7	35.7	35.7	36.7	35.7	37.6	36.7
90°	6.6	5.6	5.6	7.5	6.6	6.6	7.5	5.6	6.6	5.6
92.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8
95°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8
97.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9
100°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
102.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
105°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	0.9
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	0.9	0.0	0.0	0.0	0.9



TEST NUMBER: P894989
 CATALOG NUMBER: 8TMB-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	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.9	0.9	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°	0.9	0.9	0.9	0.9	0.0	0.9	0.0	0.0	0.0	0.0
140°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
142.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
145°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
147.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
150°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
170°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
172.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
175°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P894989
 CATALOG NUMBER: 8TMB-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	16.78	18.41	17.14	18.73	19.05	16.91	18.55	17.28	18.87	19.18
	3H	18.60	20.08	18.98	20.41	20.77	18.75	20.23	19.13	20.56	20.92
	4H	19.26	20.66	19.66	21.01	21.39	19.45	20.85	19.85	21.20	21.58
	6H	19.71	21.01	20.13	21.38	21.77	20.01	21.31	20.42	21.67	22.07
	8H	19.85	21.09	20.28	21.48	21.88	20.21	21.44	20.63	21.83	22.24
	12H	19.95	21.14	20.38	21.52	21.95	20.35	21.53	20.78	21.92	22.35
4H	2H	17.41	18.81	17.81	19.16	19.54	17.52	18.92	17.92	19.27	19.64
	3H	19.45	20.63	19.86	21.02	21.43	19.59	20.76	20.00	21.16	21.56
	4H	20.25	21.31	20.68	21.72	22.16	20.43	21.49	20.86	21.91	22.35
	6H	20.82	21.75	21.28	22.19	22.65	21.12	22.05	21.58	22.50	22.95
	8H	21.01	21.88	21.47	22.32	22.79	21.37	22.24	21.83	22.68	23.15
	12H	21.15	21.94	21.64	22.41	22.89	21.56	22.35	22.04	22.82	23.29
8H	4H	20.58	21.44	21.04	21.89	22.36	20.74	21.61	21.20	22.05	22.52
	6H	21.28	22.00	21.77	22.49	22.97	21.57	22.29	22.06	22.78	23.26
	8H	21.54	22.19	22.05	22.70	23.19	21.90	22.55	22.41	23.06	23.54
	12H	21.76	22.33	22.27	22.82	23.39	22.18	22.76	22.69	23.25	23.81
12H	4H	20.62	21.40	21.10	21.88	22.35	20.77	21.56	21.25	22.03	22.50
	6H	21.35	22.00	21.86	22.51	23.00	21.62	22.27	22.13	22.78	23.27
	8H	21.67	22.25	22.18	22.74	23.30	22.02	22.59	22.53	23.09	23.65