

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: P894996

Luminaire Tested: 8TMB-4SL-FLT-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894996
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-L950
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

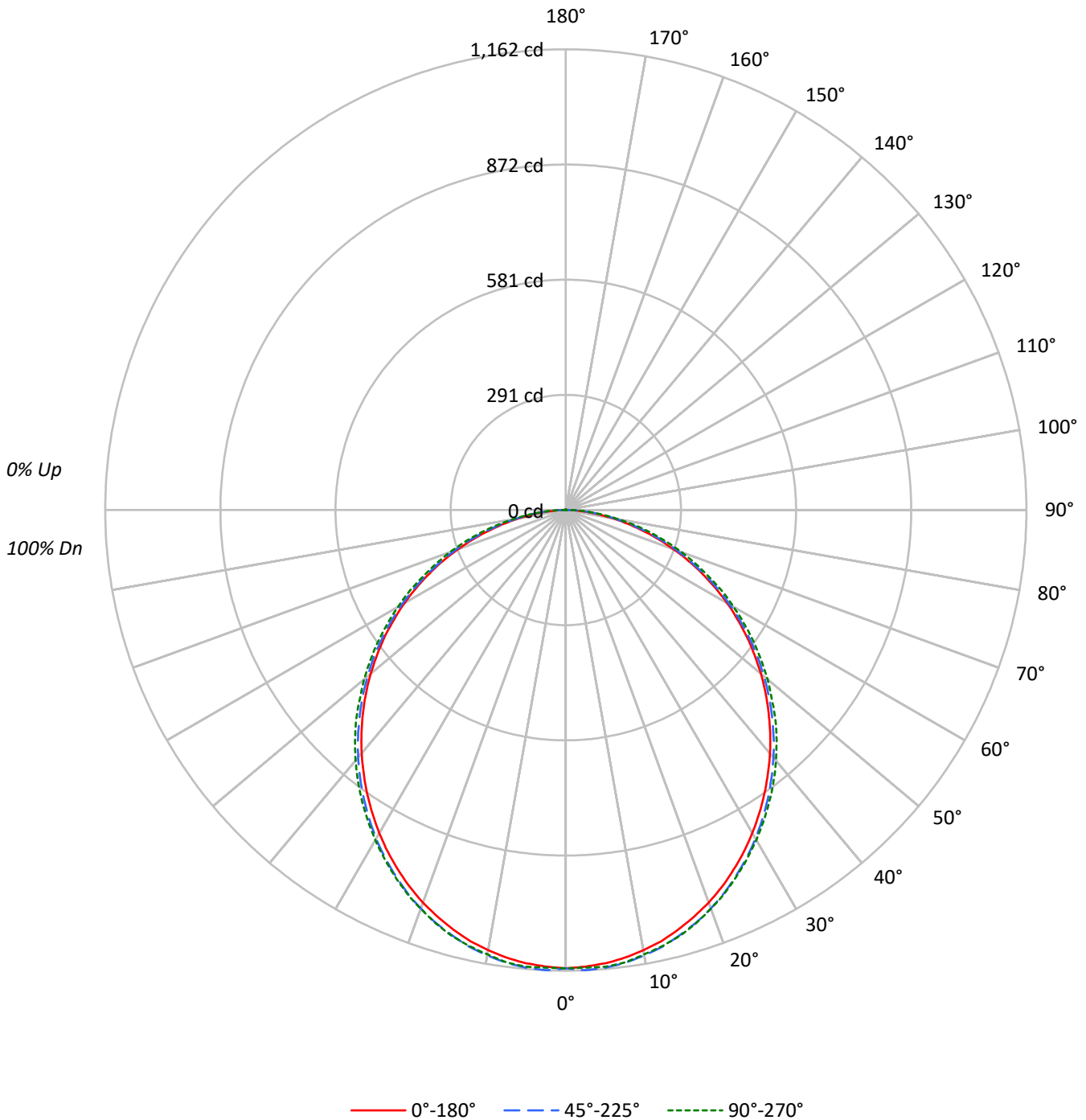
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3208.9 lumens
Efficiency: N/A
Efficacy: 116.3 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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CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L950

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	86	86	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4102	4102	4102
5°	4087	4126	4117
10°	4061	4110	4101
15°	4026	4078	4085
20°	3978	4039	4042
25°	3919	3982	3992
30°	3856	3921	3939
35°	3783	3849	3882
40°	3712	3775	3822
45°	3631	3690	3754
50°	3545	3602	3667
55°	3450	3503	3575
60°	3339	3393	3471
65°	3190	3254	3339
70°	3002	3090	3230
75°	2761	2878	3063
80°	2438	2628	2767
85°	2101	2410	2585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3754 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	3.4
10°-20°	311.6	9.7
20°-30°	466.9	14.6
30°-40°	555.6	17.3
40°-50°	570.1	17.8
50°-60°	510.7	15.9
60°-70°	388.0	12.1
70°-80°	225.5	7.0
80°-90°	67.7	2.1
90°-100°	1.6	0.0
100°-110°	0.3	0.0
110°-120°	0.0	0.0
120°-130°	0.1	0.0
130°-140°	0.3	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	887.8	27.7
0°-40°	1443.4	45.0
0°-60°	2524.1	78.7
0°-90°	3205.4	99.9
90°-120°	1.9	0.1
90°-150°	2.8	0.1
90°-180°	4.0	0.1
0°-180°	3208.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1148	1167	1158	1153	1156	109
15°	1096	1117	1110	1109	1112	309
25°	1001	1024	1017	1016	1020	461
35°	873	894	889	891	896	546
45°	724	741	735	741	748	558
55°	558	571	566	573	578	498
65°	380	389	388	394	398	376
75°	201	209	210	218	223	214
85°	52	56	59	64	64	56
90°	1	3	3	6	5	4
95°	0	1	1	2	2	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: P894996

CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0
2.5°	1152.6	1150.9	1152.6	1151.8	1160.2	1170.4	1168.7	1161.1	1152.6	1155.2	1161.9
5°	1147.5	1146.7	1149.2	1147.5	1156.0	1167.0	1163.6	1156.9	1149.2	1151.8	1158.5
7.5°	1139.1	1139.1	1142.5	1140.8	1148.4	1159.4	1156.0	1150.1	1142.5	1145.0	1151.8
10°	1127.2	1128.1	1132.3	1129.8	1136.5	1148.4	1145.0	1139.1	1132.3	1134.0	1140.8
12.5°	1113.7	1113.7	1118.8	1116.2	1123.0	1134.0	1129.8	1125.5	1118.8	1120.5	1128.1
15°	1095.9	1096.8	1102.7	1100.2	1106.1	1117.1	1112.8	1109.5	1103.5	1104.4	1110.3
17.5°	1075.6	1078.1	1084.1	1081.5	1087.5	1098.5	1093.4	1090.0	1084.9	1085.8	1091.7
20°	1053.6	1056.1	1062.1	1060.4	1064.6	1075.6	1070.5	1068.8	1063.8	1064.6	1069.7
22.5°	1029.1	1031.6	1038.4	1036.7	1040.9	1051.9	1046.0	1045.1	1040.1	1040.9	1045.1
25°	1001.1	1004.5	1012.1	1010.4	1013.8	1024.0	1018.9	1017.2	1013.8	1013.8	1017.2
27.5°	972.4	975.7	984.2	981.7	984.2	995.2	989.3	988.4	985.1	985.1	988.4
30°	941.1	944.4	953.7	951.2	953.7	963.1	957.1	958.0	954.6	954.6	957.1
32.5°	908.0	910.6	920.7	919.0	920.7	930.1	924.1	925.0	921.6	922.4	923.3
35°	873.4	875.9	886.9	885.2	886.0	894.5	890.3	890.3	887.7	886.9	888.6
37.5°	837.8	840.3	853.9	849.7	849.7	858.1	854.7	854.7	852.2	851.3	852.2
40°	801.4	803.1	817.5	813.3	812.4	820.0	817.5	817.5	815.8	814.1	815.0
42.5°	763.3	765.9	780.3	776.9	773.5	782.0	779.4	780.3	777.7	776.0	776.0
45°	723.6	726.1	740.5	738.8	733.7	741.3	738.8	740.5	737.1	735.4	735.4
47.5°	683.8	687.2	700.7	698.2	693.1	700.7	698.2	699.9	696.5	694.8	694.8
50°	642.3	645.7	660.1	655.9	650.8	658.4	656.7	657.6	655.0	653.3	652.5
52.5°	600.0	604.2	617.8	612.7	608.5	615.2	614.4	615.2	611.9	611.0	610.2
55°	557.7	561.9	574.6	568.7	565.3	571.2	569.5	571.2	567.8	567.0	566.2
57.5°	513.7	517.9	529.8	523.8	521.3	526.4	525.5	526.4	523.8	523.0	522.1
60°	470.5	473.9	484.9	479.0	476.5	481.5	479.8	482.4	479.0	479.0	478.1
62.5°	424.8	429.1	440.1	433.3	431.6	435.8	434.1	436.7	435.0	433.3	432.4
65°	380.0	382.5	392.7	386.7	384.2	389.3	388.4	390.1	387.6	388.4	387.6
67.5°	335.1	336.8	347.0	340.2	338.5	343.6	344.4	343.6	341.9	342.7	341.9
70°	289.4	291.1	299.6	293.7	292.8	297.0	298.7	297.9	296.2	297.0	297.9
72.5°	245.4	246.3	253.9	248.8	248.0	253.0	253.0	253.0	253.0	253.0	254.7
75°	201.4	202.3	209.0	204.8	204.0	209.0	209.0	209.0	209.0	210.7	209.9
77.5°	159.1	158.3	165.0	162.5	160.8	165.9	165.9	166.7	168.4	170.1	167.6
80°	119.3	118.5	123.6	120.2	120.2	125.2	124.4	125.2	126.9	127.8	128.6
82.5°	83.8	82.1	86.3	85.5	84.6	88.9	89.7	88.9	91.4	92.2	92.2
85°	51.6	51.6	54.2	52.5	52.5	55.9	55.9	56.7	58.4	59.2	59.2
87.5°	24.5	23.7	26.2	25.4	24.5	27.1	27.1	27.9	28.8	29.6	28.8
90°	0.8	0.8	1.7	1.7	1.7	3.4	3.4	3.4	4.2	4.2	3.4
92.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
95°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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	0.8



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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	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.8
132.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
135°	0.0	0.8	0.8	0.8	0.8	0.0	0.8	0.0	0.0	0.0	0.8
137.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
140°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
170°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
175°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.8	1.7	1.7
177.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0	1156.0
2.5°	1151.8	1145.8	1143.3	1145.0	1156.9	1145.0	1157.7	1161.9	1146.7	1155.2
5°	1148.4	1142.5	1139.1	1140.8	1152.6	1141.6	1155.2	1160.2	1147.5	1156.0
7.5°	1141.6	1134.8	1133.2	1135.7	1145.8	1136.5	1150.1	1155.2	1142.5	1150.9
10°	1131.5	1125.5	1123.8	1126.4	1135.7	1126.4	1138.2	1142.5	1130.6	1138.2
12.5°	1118.8	1112.8	1111.2	1114.5	1123.0	1114.5	1126.4	1130.6	1118.8	1126.4
15°	1102.7	1096.8	1095.9	1101.0	1108.6	1101.0	1112.8	1116.2	1104.4	1112.0
17.5°	1083.2	1077.3	1078.1	1084.1	1090.0	1083.2	1094.2	1097.6	1086.6	1092.5
20°	1062.1	1055.3	1057.0	1062.1	1067.1	1060.4	1071.4	1074.8	1064.6	1070.5
22.5°	1037.5	1030.8	1032.4	1038.4	1041.8	1035.8	1046.0	1049.4	1040.9	1046.8
25°	1010.4	1004.5	1007.1	1013.0	1015.5	1010.4	1019.8	1022.3	1014.7	1019.8
27.5°	983.4	976.6	980.0	985.9	987.6	982.5	991.8	993.5	985.9	991.0
30°	952.9	946.1	950.4	957.1	957.1	953.7	961.4	963.1	957.1	961.4
32.5°	919.0	914.0	919.0	925.0	924.1	921.6	929.2	930.9	925.8	929.2
35°	885.2	881.0	886.0	892.0	891.1	888.6	896.2	897.0	892.8	896.2
37.5°	850.5	847.1	852.2	857.3	855.6	853.9	860.7	860.7	858.1	861.5
40°	815.0	811.6	815.8	821.7	818.3	818.3	822.6	824.3	821.7	825.1
42.5°	777.7	774.3	779.4	784.5	781.1	780.3	785.3	786.2	784.5	787.0
45°	738.8	735.4	740.5	744.7	741.3	741.3	745.6	745.6	744.7	748.1
47.5°	699.0	696.5	700.7	704.9	701.6	704.1	704.1	704.1	705.8	704.9
50°	658.4	655.9	659.2	664.3	660.1	660.9	662.6	662.6	663.5	664.3
52.5°	616.1	612.7	616.1	622.0	616.1	618.6	619.5	620.3	622.9	621.2
55°	573.8	570.4	573.8	578.8	572.9	576.3	576.3	577.2	579.7	578.0
57.5°	529.8	526.4	531.5	534.8	528.9	532.3	532.3	534.0	535.7	533.2
60°	485.8	483.2	484.9	490.8	484.9	488.3	488.3	488.3	491.7	489.1
62.5°	440.9	439.2	440.9	446.0	440.1	443.4	442.6	443.4	446.8	446.0
65°	395.2	393.5	395.2	400.3	394.4	397.7	397.7	398.6	401.1	397.7
67.5°	350.4	347.8	350.4	354.6	349.5	352.0	352.0	352.0	356.3	354.6
70°	304.7	303.0	304.7	308.9	304.7	306.3	306.3	306.3	310.6	311.4
72.5°	259.8	259.8	261.5	264.9	261.5	264.9	262.3	260.7	266.6	267.4
75°	215.8	216.6	217.5	220.9	217.5	220.9	219.2	217.5	222.6	223.4
77.5°	175.2	175.2	176.0	178.6	176.0	178.6	176.9	176.9	180.3	179.4
80°	133.7	133.7	134.6	137.1	134.6	137.1	135.4	135.4	138.8	135.4
82.5°	97.3	97.3	97.3	99.9	98.2	99.9	99.0	97.3	101.6	98.2
85°	62.6	63.5	63.5	64.3	63.5	64.3	64.3	63.5	66.0	63.5
87.5°	32.2	32.2	32.2	33.0	32.2	32.2	33.0	32.2	33.9	33.0
90°	5.9	5.1	5.1	6.8	5.9	5.9	6.8	5.1	5.9	5.1
92.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4
95°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
97.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7
100°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
102.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
105°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.8	0.8
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	0.8	0.0	0.0	0.0	0.8



TEST NUMBER: P894996

CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L950

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	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.8	0.8	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°	0.8	0.8	0.8	0.8	0.0	0.8	0.0	0.0	0.0	0.0
140°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
145°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
170°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
177.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P894996
 CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L950

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	16.41	18.05	16.78	18.36	18.68	16.55	18.18	16.91	18.50	18.82
	3H	18.23	19.71	18.61	20.04	20.41	18.38	19.86	18.76	20.19	20.55
	4H	18.89	20.29	19.29	20.64	21.02	19.09	20.48	19.49	20.83	21.21
	6H	19.35	20.64	19.76	21.01	21.40	19.64	20.94	20.06	21.31	21.70
	8H	19.49	20.72	19.91	21.11	21.52	19.84	21.08	20.26	21.47	21.87
	12H	19.58	20.77	20.01	21.15	21.58	19.98	21.17	20.41	21.55	21.98
4H	2H	17.04	18.44	17.44	18.79	19.17	17.15	18.55	17.55	18.90	19.28
	3H	19.09	20.26	19.50	20.66	21.06	19.22	20.39	19.63	20.79	21.19
	4H	19.88	20.94	20.31	21.36	21.79	20.06	21.13	20.50	21.54	21.98
	6H	20.45	21.38	20.91	21.83	22.28	20.76	21.69	21.21	22.13	22.59
	8H	20.64	21.51	21.11	21.96	22.43	21.00	21.87	21.46	22.32	22.78
	12H	20.79	21.57	21.27	22.05	22.52	21.20	21.98	21.68	22.45	22.93
8H	4H	20.21	21.08	20.67	21.52	21.99	20.37	21.24	20.84	21.69	22.15
	6H	20.91	21.64	21.41	22.12	22.60	21.20	21.92	21.69	22.41	22.89
	8H	21.17	21.82	21.68	22.33	22.82	21.53	22.18	22.04	22.69	23.18
	12H	21.39	21.97	21.90	22.46	23.02	21.81	22.39	22.32	22.88	23.44
12H	4H	20.25	21.03	20.73	21.51	21.98	20.41	21.19	20.89	21.66	22.14
	6H	20.98	21.63	21.49	22.14	22.63	21.26	21.91	21.77	22.41	22.90
	8H	21.31	21.88	21.82	22.37	22.94	21.65	22.23	22.16	22.72	23.28