

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: P894995

Luminaire Tested: 8TMB-4SL-FLT-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894995
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-L940
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

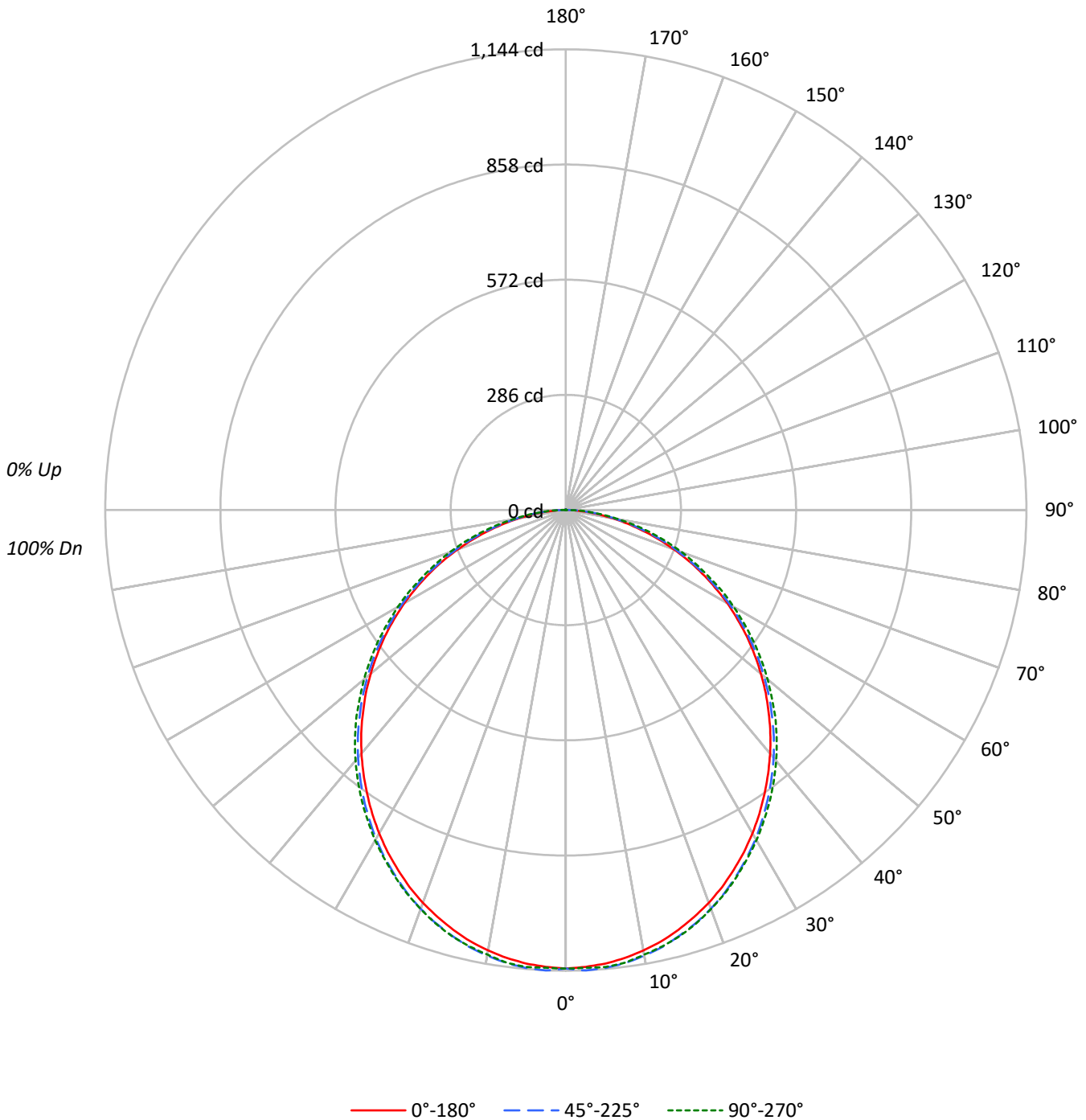
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3160.9 lumens
Efficiency: N/A
Efficacy: 114.5 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

TEST NUMBER: P894995
CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L940

Luminous Intensity Polar Plot





TEST NUMBER: P894995

CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L940

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°	4040	4040	4040
5°	4026	4065	4056
10°	4001	4049	4040
15°	3965	4017	4024
20°	3919	3979	3982
25°	3861	3923	3933
30°	3798	3863	3880
35°	3726	3791	3824
40°	3656	3718	3765
45°	3576	3635	3698
50°	3492	3548	3612
55°	3399	3450	3522
60°	3289	3342	3419
65°	3142	3205	3289
70°	2958	3044	3183
75°	2720	2834	3017
80°	2401	2589	2726
85°	2072	2377	2544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3698 cd/sqm



TEST NUMBER: P894995
 CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.4
10°-20°	306.9	9.7
20°-30°	459.9	14.6
30°-40°	547.3	17.3
40°-50°	561.5	17.8
50°-60°	503.1	15.9
60°-70°	382.2	12.1
70°-80°	222.2	7.0
80°-90°	66.7	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°	874.5	27.7
0°-40°	1421.8	45.0
0°-60°	2486.3	78.7
0°-90°	3157.4	99.9
90°-120°	1.9	0.1
90°-150°	2.8	0.1
90°-180°	4.0	0.1
0°-180°	3160.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1130	1150	1141	1135	1139	107
15°	1080	1100	1094	1092	1095	304
25°	986	1009	1002	1000	1004	454
35°	860	881	875	878	883	538
45°	713	730	724	730	737	550
55°	549	563	558	564	569	491
65°	374	384	382	388	392	370
75°	198	206	207	214	220	210
85°	51	55	58	62	62	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: P894995
 CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L940

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7
2.5°	1135.4	1133.7	1135.4	1134.5	1142.9	1152.9	1151.2	1143.7	1135.4	1137.9	1144.5
5°	1130.4	1129.5	1132.0	1130.4	1138.7	1149.6	1146.2	1139.5	1132.0	1134.5	1141.2
7.5°	1122.0	1122.0	1125.4	1123.7	1131.2	1142.0	1138.7	1132.9	1125.4	1127.9	1134.5
10°	1110.4	1111.2	1115.4	1112.9	1119.5	1131.2	1127.9	1122.0	1115.4	1117.0	1123.7
12.5°	1097.0	1097.0	1102.0	1099.5	1106.2	1117.0	1112.9	1108.7	1102.0	1103.7	1111.2
15°	1079.5	1080.4	1086.2	1083.7	1089.5	1100.4	1096.2	1092.9	1087.0	1087.9	1093.7
17.5°	1059.5	1062.0	1067.9	1065.4	1071.2	1082.0	1077.0	1073.7	1068.7	1069.5	1075.4
20°	1037.8	1040.3	1046.2	1044.5	1048.7	1059.5	1054.5	1052.9	1047.8	1048.7	1053.7
22.5°	1013.7	1016.2	1022.8	1021.2	1025.3	1036.2	1030.3	1029.5	1024.5	1025.3	1029.5
25°	986.2	989.5	997.0	995.3	998.7	1008.7	1003.7	1002.0	998.7	998.7	1002.0
27.5°	957.8	961.2	969.5	967.0	969.5	980.3	974.5	973.7	970.3	970.3	973.7
30°	927.0	930.3	939.5	937.0	939.5	948.6	942.8	943.6	940.3	940.3	942.8
32.5°	894.5	897.0	907.0	905.3	907.0	916.1	910.3	911.1	907.8	908.6	909.5
35°	860.3	862.8	873.6	872.0	872.8	881.1	877.0	877.0	874.5	873.6	875.3
37.5°	825.3	827.8	841.1	836.9	836.9	845.3	841.9	841.9	839.4	838.6	839.4
40°	789.4	791.1	805.3	801.1	800.3	807.8	805.3	805.3	803.6	801.9	802.8
42.5°	751.9	754.4	768.6	765.3	761.9	770.3	767.8	768.6	766.1	764.4	764.4
45°	712.7	715.2	729.4	727.7	722.7	730.2	727.7	729.4	726.1	724.4	724.4
47.5°	673.6	676.9	690.2	687.7	682.7	690.2	687.7	689.4	686.1	684.4	684.4
50°	632.7	636.0	650.2	646.0	641.0	648.5	646.9	647.7	645.2	643.5	642.7
52.5°	591.0	595.2	608.5	603.5	599.4	606.0	605.2	606.0	602.7	601.9	601.0
55°	549.4	553.5	566.0	560.2	556.9	562.7	561.0	562.7	559.4	558.5	557.7
57.5°	506.0	510.2	521.8	516.0	513.5	518.5	517.7	518.5	516.0	515.2	514.3
60°	463.5	466.8	477.7	471.8	469.3	474.3	472.7	475.2	471.8	471.8	471.0
62.5°	418.5	422.6	433.5	426.8	425.1	429.3	427.6	430.1	428.5	426.8	426.0
65°	374.3	376.8	386.8	381.0	378.5	383.5	382.6	384.3	381.8	382.6	381.8
67.5°	330.1	331.8	341.8	335.1	333.4	338.4	339.3	338.4	336.8	337.6	336.8
70°	285.1	286.8	295.1	289.3	288.4	292.6	294.3	293.4	291.8	292.6	293.4
72.5°	241.7	242.6	250.1	245.1	244.2	249.2	249.2	249.2	249.2	249.2	250.9
75°	198.4	199.2	205.9	201.7	200.9	205.9	205.9	205.9	205.9	207.6	206.7
77.5°	156.7	155.9	162.6	160.1	158.4	163.4	163.4	164.2	165.9	167.6	165.1
80°	117.5	116.7	121.7	118.4	118.4	123.4	122.5	123.4	125.0	125.9	126.7
82.5°	82.5	80.9	85.0	84.2	83.4	87.5	88.4	87.5	90.0	90.9	90.9
85°	50.9	50.9	53.4	51.7	51.7	55.0	55.0	55.9	57.5	58.4	58.4
87.5°	24.2	23.3	25.8	25.0	24.2	26.7	26.7	27.5	28.3	29.2	28.3
90°	0.8	0.8	1.7	1.7	1.7	3.3	3.3	3.3	4.2	4.2	3.3
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



TEST NUMBER: P894995

CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L940

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



TEST NUMBER: P894995
 CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L940

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7	1138.7
2.5°	1134.5	1128.7	1126.2	1127.9	1139.5	1127.9	1140.4	1144.5	1129.5	1137.9
5°	1131.2	1125.4	1122.0	1123.7	1135.4	1124.5	1137.9	1142.9	1130.4	1138.7
7.5°	1124.5	1117.9	1116.2	1118.7	1128.7	1119.5	1132.9	1137.9	1125.4	1133.7
10°	1114.5	1108.7	1107.0	1109.5	1118.7	1109.5	1121.2	1125.4	1113.7	1121.2
12.5°	1102.0	1096.2	1094.5	1097.9	1106.2	1097.9	1109.5	1113.7	1102.0	1109.5
15°	1086.2	1080.4	1079.5	1084.5	1092.0	1084.5	1096.2	1099.5	1087.9	1095.4
17.5°	1067.0	1061.2	1062.0	1067.9	1073.7	1067.0	1077.9	1081.2	1070.4	1076.2
20°	1046.2	1039.5	1041.2	1046.2	1051.2	1044.5	1055.4	1058.7	1048.7	1054.5
22.5°	1022.0	1015.3	1017.0	1022.8	1026.2	1020.3	1030.3	1033.7	1025.3	1031.2
25°	995.3	989.5	992.0	997.8	1000.3	995.3	1004.5	1007.0	999.5	1004.5
27.5°	968.7	962.0	965.3	971.2	972.8	967.8	977.0	978.7	971.2	976.2
30°	938.6	932.0	936.1	942.8	942.8	939.5	947.0	948.6	942.8	947.0
32.5°	905.3	900.3	905.3	911.1	910.3	907.8	915.3	917.0	912.0	915.3
35°	872.0	867.8	872.8	878.6	877.8	875.3	882.8	883.6	879.5	882.8
37.5°	837.8	834.4	839.4	844.4	842.8	841.1	847.8	847.8	845.3	848.6
40°	802.8	799.4	803.6	809.4	806.1	806.1	810.3	811.9	809.4	812.8
42.5°	766.1	762.8	767.8	772.8	769.4	768.6	773.6	774.4	772.8	775.3
45°	727.7	724.4	729.4	733.6	730.2	730.2	734.4	734.4	733.6	736.9
47.5°	688.6	686.1	690.2	694.4	691.1	693.6	693.6	693.6	695.2	694.4
50°	648.5	646.0	649.4	654.4	650.2	651.1	652.7	652.7	653.6	654.4
52.5°	606.9	603.5	606.9	612.7	606.9	609.4	610.2	611.0	613.5	611.9
55°	565.2	561.9	565.2	570.2	564.4	567.7	567.7	568.5	571.0	569.4
57.5°	521.8	518.5	523.5	526.8	521.0	524.3	524.3	526.0	527.7	525.2
60°	478.5	476.0	477.7	483.5	477.7	481.0	481.0	481.0	484.3	481.8
62.5°	434.3	432.6	434.3	439.3	433.5	436.8	436.0	436.8	440.1	439.3
65°	389.3	387.6	389.3	394.3	388.5	391.8	391.8	392.6	395.1	391.8
67.5°	345.1	342.6	345.1	349.3	344.3	346.8	346.8	346.8	351.0	349.3
70°	300.1	298.4	300.1	304.3	300.1	301.8	301.8	301.8	305.9	306.8
72.5°	255.9	255.9	257.6	260.9	257.6	260.9	258.4	256.8	262.6	263.4
75°	212.6	213.4	214.2	217.6	214.2	217.6	215.9	214.2	219.2	220.1
77.5°	172.6	172.6	173.4	175.9	173.4	175.9	174.2	174.2	177.6	176.7
80°	131.7	131.7	132.5	135.0	132.5	135.0	133.4	133.4	136.7	133.4
82.5°	95.9	95.9	95.9	98.4	96.7	98.4	97.5	95.9	100.0	96.7
85°	61.7	62.5	62.5	63.4	62.5	63.4	63.4	62.5	65.0	62.5
87.5°	31.7	31.7	31.7	32.5	31.7	31.7	32.5	31.7	33.3	32.5
90°	5.8	5.0	5.0	6.7	5.8	5.8	6.7	5.0	5.8	5.0
92.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3
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: P894995
 CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L940

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: P894995
 CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L940

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	16.36	17.99	16.72	18.31	18.63	16.49	18.13	16.86	18.45	18.76
	3H	18.18	19.66	18.56	19.99	20.35	18.33	19.81	18.71	20.14	20.50
	4H	18.84	20.24	19.24	20.59	20.97	19.03	20.43	19.43	20.78	21.16
	6H	19.29	20.59	19.71	20.96	21.35	19.59	20.89	20.00	21.25	21.65
	8H	19.43	20.67	19.86	21.06	21.46	19.79	21.02	20.21	21.41	21.82
	12H	19.53	20.72	19.96	21.10	21.53	19.93	21.11	20.36	21.50	21.93
4H	2H	16.99	18.39	17.39	18.74	19.12	17.10	18.50	17.50	18.85	19.22
	3H	19.03	20.20	19.44	20.60	21.01	19.17	20.34	19.58	20.74	21.14
	4H	19.83	20.89	20.26	21.30	21.74	20.01	21.07	20.44	21.49	21.93
	6H	20.40	21.33	20.86	21.77	22.23	20.70	21.63	21.16	22.08	22.53
	8H	20.59	21.46	21.05	21.91	22.37	20.95	21.82	21.41	22.26	22.73
	12H	20.74	21.52	21.22	21.99	22.47	21.14	21.92	21.62	22.40	22.87
8H	4H	20.16	21.02	20.62	21.47	21.94	20.32	21.19	20.78	21.63	22.10
	6H	20.86	21.58	21.35	22.07	22.55	21.15	21.87	21.64	22.36	22.84
	8H	21.12	21.77	21.63	22.28	22.77	21.48	22.13	21.99	22.64	23.12
	12H	21.34	21.91	21.85	22.41	22.97	21.76	22.34	22.27	22.83	23.39
12H	4H	20.20	20.98	20.68	21.46	21.93	20.35	21.14	20.83	21.61	22.08
	6H	20.93	21.58	21.44	22.09	22.58	21.20	21.85	21.71	22.36	22.85
	8H	21.25	21.83	21.76	22.32	22.88	21.60	22.17	22.11	22.67	23.23