

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: P895498

Luminaire Tested: 8TMB-SC3-RND-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895498
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-SC3-RND-UNV-CC83-LOW-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 5000K CCT, LOW I setting
Light Source: -
Ballast/Driver: -

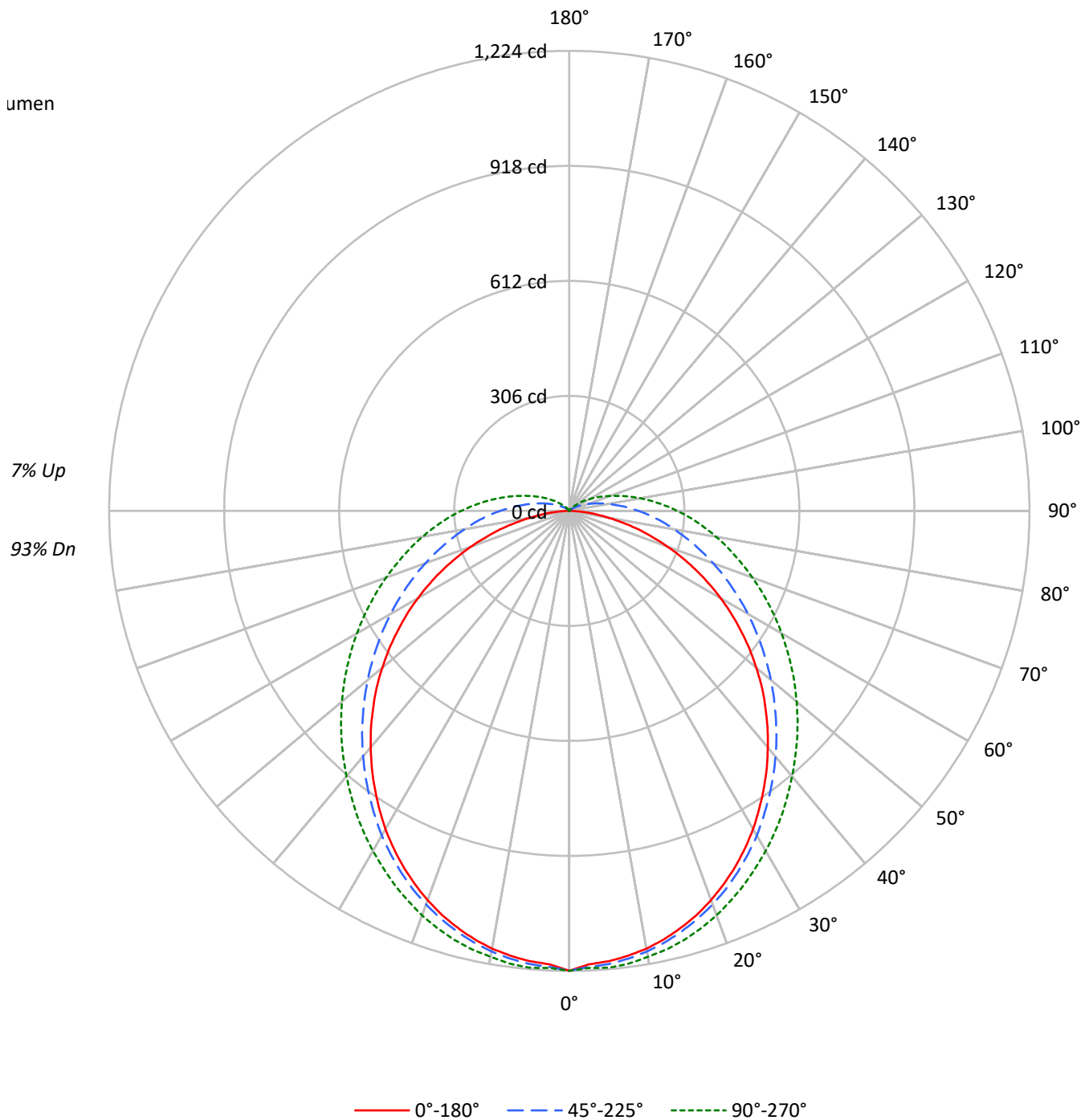
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4051.0 lumens
Efficiency: N/A
Efficacy: 120.9 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): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-SC3-RND-UNV-CC83-LOW-5000K

Luminous Intensity Polar Plot





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	2.9
10°-20°	329.7	8.1
20°-30°	493.7	12.2
30°-40°	588.7	14.5
40°-50°	610.6	15.1
50°-60°	566.4	14.0
60°-70°	472.5	11.7
70°-80°	352.3	8.7
80°-90°	234.6	5.8
90°-100°	142.8	3.5
100°-110°	79.7	2.0
110°-120°	39.8	1.0
120°-130°	16.7	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°	939.2	23.2
0°-40°	1527.9	37.7
0°-60°	2704.9	66.8
0°-90°	3764.3	92.9
90°-120°	262.4	6.5
90°-150°	285.6	7.1
90°-180°	287.0	7.1
0°-180°	4051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1203	1230	1210	1217	1220	114
15°	1148	1178	1158	1179	1182	324
25°	1045	1072	1060	1090	1098	481
35°	902	926	927	973	986	564
45°	737	756	776	838	857	569
55°	558	577	623	696	721	499
65°	372	401	476	556	584	368
75°	190	243	343	426	455	201
85°	44	121	232	311	341	49
90°	2	80	184	260	287	3
95°	0	49	142	213	238	0
105°	0	15	78	131	151	0
115°	1	4	36	74	88	1
125°	1	1	14	35	44	1
135°	1	1	4	12	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°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7
2.5°	1207.4	1209.3	1226.6	1225.6	1222.7	1234.2	1237.1	1227.5	1212.2	1227.5	1214.1
5°	1202.6	1204.6	1221.8	1220.8	1218.0	1230.4	1231.4	1222.7	1207.4	1222.7	1210.3
7.5°	1194.0	1195.9	1213.2	1212.2	1210.3	1222.7	1221.8	1215.1	1198.8	1215.1	1201.7
10°	1182.5	1183.5	1201.7	1199.8	1198.8	1211.3	1208.4	1202.6	1186.4	1202.6	1190.2
12.5°	1167.2	1168.2	1186.4	1184.4	1184.4	1195.9	1192.1	1187.3	1171.0	1186.4	1175.8
15°	1148.1	1149.0	1166.3	1165.3	1165.3	1177.7	1172.0	1168.2	1152.8	1169.1	1157.6
17.5°	1127.0	1126.0	1144.2	1142.3	1144.2	1155.7	1148.1	1146.1	1131.8	1147.1	1137.5
20°	1102.1	1102.1	1118.4	1117.4	1120.3	1130.8	1121.2	1122.2	1107.8	1124.1	1114.5
22.5°	1074.3	1073.4	1089.6	1089.6	1092.5	1103.1	1092.5	1095.4	1081.0	1096.4	1088.7
25°	1044.6	1042.7	1059.0	1059.0	1063.8	1072.4	1060.9	1064.8	1051.3	1066.7	1060.0
27.5°	1012.1	1009.2	1025.5	1026.5	1030.3	1038.9	1026.5	1032.2	1019.8	1034.1	1029.3
30°	977.6	974.7	991.0	992.0	996.8	1003.5	991.0	998.7	987.2	1001.6	997.7
32.5°	940.3	938.4	953.7	955.6	960.4	965.2	953.7	961.3	951.8	966.1	962.3
35°	902.0	900.1	914.4	917.3	922.1	925.9	913.5	924.0	915.4	928.8	926.9
37.5°	862.7	859.8	875.2	877.1	882.8	884.7	873.3	885.7	878.0	891.4	890.5
40°	821.5	818.7	834.0	835.9	841.7	841.7	832.1	845.5	839.7	852.2	853.1
42.5°	780.4	777.5	790.9	794.7	799.5	799.5	789.9	804.3	800.5	812.9	815.8
45°	737.3	734.4	746.9	750.7	756.4	756.4	746.9	763.1	760.3	772.7	776.5
47.5°	695.2	691.3	702.8	706.6	712.4	711.4	703.8	720.0	719.1	731.5	738.2
50°	649.2	646.3	657.8	661.6	668.3	666.4	660.7	677.9	677.9	690.4	699.9
52.5°	604.2	601.3	612.8	616.6	622.4	622.4	616.6	634.8	637.7	650.2	661.6
55°	558.2	554.4	565.9	569.7	576.4	577.4	572.6	590.8	596.5	610.9	623.3
57.5°	512.3	510.4	519.9	523.8	532.4	532.4	529.5	548.7	556.3	571.6	586.0
60°	465.4	463.4	472.1	476.8	486.4	488.3	486.4	506.5	517.1	532.4	548.7
62.5°	418.4	416.5	425.1	431.8	442.4	444.3	445.2	466.3	477.8	494.1	512.3
65°	371.5	369.6	378.2	385.9	398.3	401.2	404.1	426.1	439.5	456.7	475.9
67.5°	324.6	323.6	332.3	341.8	355.2	359.1	363.9	386.8	402.2	420.3	441.4
70°	278.6	277.7	286.3	297.8	314.1	318.9	324.6	347.6	366.7	385.9	406.9
72.5°	232.7	233.6	243.2	256.6	274.8	279.6	287.3	311.2	332.3	352.4	374.4
75°	190.5	190.5	201.1	216.4	236.5	243.2	251.8	276.7	298.7	319.8	342.8
77.5°	147.5	147.5	159.9	179.1	201.1	207.8	218.3	244.2	268.1	289.2	312.1
80°	108.2	110.1	124.5	143.6	166.6	175.2	187.7	213.5	239.4	260.4	283.4
82.5°	73.7	76.6	91.9	113.9	136.9	145.5	158.0	185.8	211.6	233.6	257.6
85°	44.0	48.8	65.1	87.1	111.1	120.6	134.1	159.9	185.8	207.8	231.7
87.5°	20.1	26.8	44.0	66.1	89.0	99.6	111.1	136.0	161.8	183.8	208.7
90°	1.9	11.5	28.7	47.9	69.9	79.5	91.0	114.9	139.8	159.9	183.8
92.5°	0.0	4.8	17.2	34.5	53.6	63.2	73.7	96.7	118.7	138.8	161.8
95°	0.0	1.9	9.6	23.9	40.2	48.8	58.4	79.5	101.5	120.6	141.7
97.5°	0.0	1.0	5.7	16.3	29.7	37.3	46.0	65.1	85.2	103.4	122.6
100°	0.0	1.0	2.9	10.5	22.0	27.8	36.4	52.7	70.9	87.1	106.3
102.5°	0.0	0.0	1.9	6.7	16.3	21.1	27.8	42.1	58.4	73.7	91.0
105°	0.0	0.0	1.0	4.8	11.5	15.3	21.1	33.5	47.9	61.3	77.6
107.5°	0.0	0.0	1.0	2.9	7.7	11.5	16.3	25.9	38.3	50.7	65.1
110°	1.0	1.0	1.0	1.9	5.7	8.6	11.5	20.1	31.6	42.1	54.6



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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	3.8	5.7	8.6	15.3	24.9	33.5	45.0
115°	1.0	1.0	1.0	1.0	2.9	3.8	5.7	11.5	19.2	26.8	36.4
117.5°	1.0	1.0	1.0	1.0	1.9	2.9	3.8	8.6	14.4	21.1	29.7
120°	1.0	1.0	1.0	1.0	1.0	1.9	2.9	5.7	11.5	16.3	23.9
122.5°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	4.8	8.6	12.4	18.2
125°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	5.7	9.6	14.4
127.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8	6.7	10.5
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	3.8	5.7
135°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8
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°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7
2.5°	1218.0	1220.8	1223.7	1216.0	1220.8	1229.4	1232.3	1220.8	1224.7	1217.0
5°	1214.1	1216.0	1219.9	1210.3	1217.0	1224.7	1229.4	1219.9	1225.6	1219.9
7.5°	1206.5	1208.4	1213.2	1203.6	1212.2	1218.9	1224.7	1215.1	1220.8	1215.1
10°	1195.0	1197.8	1204.6	1193.1	1203.6	1209.3	1215.1	1204.6	1210.3	1204.6
12.5°	1180.6	1185.4	1191.1	1180.6	1191.1	1195.9	1203.6	1193.1	1199.8	1195.0
15°	1163.4	1168.2	1175.8	1165.3	1178.7	1182.5	1190.2	1179.7	1186.4	1181.6
17.5°	1143.3	1149.0	1158.6	1146.1	1161.5	1164.3	1172.0	1162.4	1169.1	1164.3
20°	1120.3	1126.0	1135.6	1124.1	1139.4	1141.4	1150.0	1141.4	1148.1	1145.2
22.5°	1093.5	1100.2	1109.8	1099.2	1115.5	1115.5	1126.0	1117.4	1125.1	1122.2
25°	1065.7	1073.4	1083.9	1072.4	1089.6	1089.6	1101.1	1092.5	1100.2	1098.3
27.5°	1036.0	1044.6	1057.1	1045.6	1062.8	1061.9	1073.4	1065.7	1074.3	1071.5
30°	1004.4	1014.0	1026.5	1016.9	1035.1	1033.2	1044.6	1037.9	1045.6	1044.6
32.5°	970.0	980.5	995.8	985.3	1003.5	1001.6	1015.9	1008.3	1017.8	1015.9
35°	935.5	947.0	962.3	952.7	972.8	970.0	984.3	977.6	987.2	986.2
37.5°	900.1	912.5	927.8	920.2	939.3	936.4	951.8	946.0	956.6	953.7
40°	863.7	876.1	892.4	885.7	905.8	902.0	918.3	913.5	924.0	922.1
42.5°	827.3	840.7	857.0	853.1	872.3	868.5	884.7	880.9	891.4	889.5
45°	789.9	804.3	821.5	817.7	837.8	834.0	850.3	847.4	857.9	857.0
47.5°	752.6	767.9	785.2	783.2	802.4	798.6	815.8	812.9	823.5	823.5
50°	714.3	731.5	748.8	747.8	767.0	763.1	778.5	778.5	789.9	789.0
52.5°	676.0	694.2	712.4	712.4	731.5	727.7	744.9	744.0	755.5	755.5
55°	639.6	655.9	674.1	677.9	696.1	690.4	708.6	710.5	720.0	721.0
57.5°	603.2	620.5	638.7	643.4	660.7	656.9	674.1	676.0	685.6	686.5
60°	566.8	583.1	601.3	608.0	625.3	621.4	638.7	640.6	651.1	652.1
62.5°	530.5	546.7	566.8	573.6	589.8	587.0	605.1	607.1	616.6	618.6
65°	495.0	512.3	531.4	541.0	556.3	552.5	570.7	572.6	583.1	584.1
67.5°	460.6	477.8	496.9	507.5	521.8	519.9	537.2	541.0	549.6	551.5
70°	427.1	444.3	464.4	474.9	489.3	488.3	504.6	507.5	517.1	518.0
72.5°	394.5	411.7	431.8	444.3	456.7	455.8	472.1	475.9	485.5	486.4
75°	362.9	381.1	400.2	413.6	426.1	425.1	441.4	445.2	453.9	454.8
77.5°	333.2	351.4	371.5	384.9	395.5	396.4	410.8	414.6	423.2	426.1
80°	305.4	322.7	341.8	356.2	365.8	367.7	381.1	385.9	392.6	396.4
82.5°	278.6	295.9	315.0	328.4	338.0	339.9	352.4	358.1	364.8	367.7
85°	252.8	270.0	288.2	302.6	311.2	312.1	324.6	330.3	336.1	340.9
87.5°	227.9	245.1	262.4	277.7	285.3	287.3	298.7	304.5	309.3	314.1
90°	203.0	220.2	237.5	251.8	259.5	260.4	272.9	278.6	283.4	287.3
92.5°	180.0	197.2	214.5	228.8	235.5	237.5	248.0	254.7	258.5	262.4
95°	158.0	175.2	190.5	205.9	212.6	215.4	225.0	230.8	235.5	237.5
97.5°	138.8	154.2	168.5	183.8	189.6	192.5	202.0	208.7	212.6	214.5
100°	120.6	135.0	148.4	162.8	168.5	171.4	180.0	185.8	189.6	192.5
102.5°	104.4	117.8	130.2	143.6	149.4	151.3	158.9	164.7	168.5	171.4
105°	90.0	102.5	113.9	126.4	131.2	134.1	140.8	145.5	149.4	151.3
107.5°	76.6	89.0	98.6	110.1	114.9	116.8	123.5	129.3	132.1	133.1
110°	65.1	75.6	85.2	94.8	100.5	102.5	108.2	113.0	115.9	116.8



TEST NUMBER: P895498

CATALOG NUMBER: 8TMB-SC3-RND-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	54.6	64.2	72.8	81.4	86.2	88.1	93.8	98.6	100.5	101.5
115°	45.0	54.6	61.3	69.9	73.7	75.6	80.4	85.2	86.2	88.1
117.5°	36.4	45.0	51.7	58.4	62.2	64.2	68.0	71.8	73.7	74.7
120°	29.7	36.4	42.1	48.8	51.7	53.6	57.5	61.3	62.2	63.2
122.5°	23.9	29.7	34.5	40.2	43.1	45.0	47.9	50.7	51.7	52.7
125°	18.2	23.9	27.8	32.6	35.4	36.4	39.3	42.1	43.1	44.0
127.5°	14.4	18.2	22.0	25.9	27.8	28.7	31.6	33.5	34.5	35.4
130°	10.5	13.4	16.3	20.1	22.0	23.0	24.9	26.8	27.8	27.8
132.5°	7.7	10.5	12.4	15.3	16.3	17.2	19.2	21.1	21.1	22.0
135°	4.8	6.7	8.6	10.5	12.4	12.4	14.4	15.3	16.3	16.3
137.5°	3.8	4.8	5.7	7.7	8.6	9.6	9.6	11.5	11.5	11.5
140°	2.9	3.8	3.8	4.8	5.7	6.7	6.7	7.7	7.7	7.7
142.5°	1.9	2.9	2.9	3.8	3.8	4.8	4.8	4.8	5.7	5.7
145°	1.9	1.9	1.9	2.9	2.9	2.9	2.9	3.8	3.8	3.8
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



TEST NUMBER: P895498
 CATALOG NUMBER: 8TMB-SC3-RND-UNV-CC83-LOW-5000K

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	15.39	16.93	15.86	17.38	17.87	16.96	18.50	17.43	18.95	19.44
	3H	17.07	18.47	17.55	18.94	19.46	19.59	20.99	20.07	21.46	21.98
	4H	17.66	18.99	18.17	19.48	20.02	20.90	22.23	21.40	22.71	23.25
	6H	18.06	19.30	18.58	19.80	20.36	22.30	23.54	22.82	24.04	24.60
	8H	18.18	19.37	18.71	19.89	20.45	23.05	24.24	23.58	24.76	25.32
	12H	18.25	19.39	18.79	19.91	20.50	23.90	25.04	24.44	25.56	26.15
4H	2H	16.32	17.65	16.82	18.13	18.67	17.51	18.84	18.02	19.33	19.87
	3H	18.30	19.43	18.81	19.96	20.52	20.43	21.56	20.94	22.09	22.65
	4H	19.07	20.11	19.61	20.65	21.25	21.95	22.99	22.49	23.53	24.13
	6H	19.65	20.57	20.21	21.14	21.75	23.59	24.52	24.15	25.08	25.69
	8H	19.83	20.70	20.40	21.26	21.89	24.48	25.34	25.04	25.91	26.53
	12H	19.96	20.75	20.54	21.34	21.97	25.48	26.27	26.06	26.86	27.49
8H	4H	19.95	20.82	20.51	21.38	22.00	22.31	23.18	22.87	23.74	24.37
	6H	20.83	21.57	21.43	22.17	22.80	24.21	24.95	24.81	25.56	26.18
	8H	21.18	21.85	21.79	22.46	23.10	25.30	25.96	25.90	26.58	27.22
	12H	21.45	22.05	22.06	22.65	23.36	26.56	27.16	27.17	27.76	28.47
12H	4H	20.23	21.02	20.81	21.61	22.23	22.35	23.14	22.94	23.74	24.36
	6H	21.28	21.95	21.89	22.56	23.20	24.32	24.99	24.93	25.61	26.25
	8H	21.80	22.39	22.41	23.00	23.71	25.52	26.12	26.13	26.72	27.43