

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: P895390

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895390
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-SC3-FLT-UNV-CC83-LOW-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 5000K CCT, LOW lum setting
Light Source: -
Ballast/Driver: -

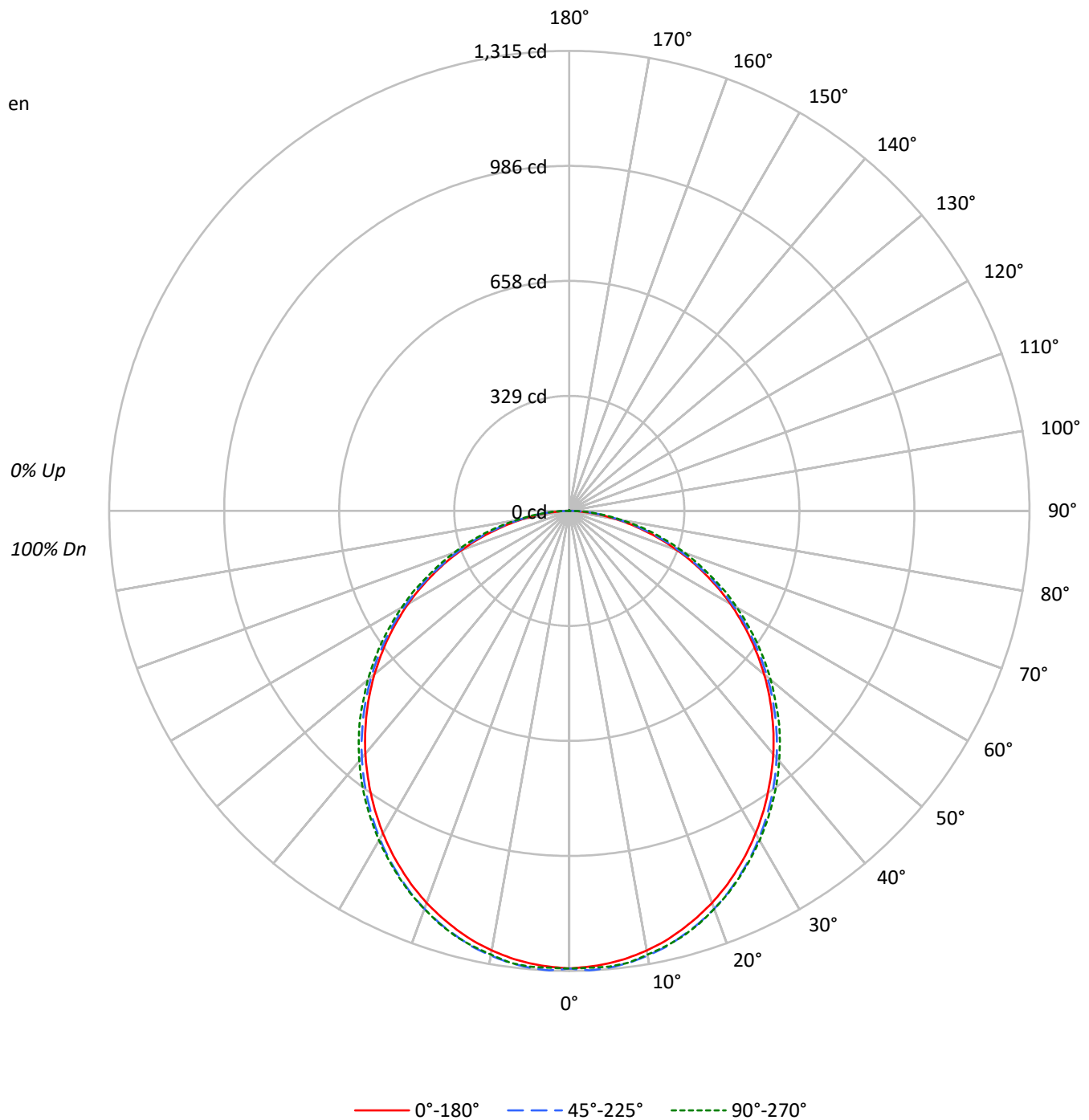
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3631.1 lumens
Efficiency: N/A
Efficacy: 108.4 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): 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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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°	4641	4641	4641
5°	4624	4669	4659
10°	4595	4651	4640
15°	4555	4615	4622
20°	4502	4570	4574
25°	4435	4506	4517
30°	4363	4437	4457
35°	4280	4355	4393
40°	4200	4271	4324
45°	4108	4175	4248
50°	4012	4075	4149
55°	3903	3963	4046
60°	3778	3839	3928
65°	3609	3682	3779
70°	3398	3497	3656
75°	3124	3256	3466
80°	2758	2973	3130
85°	2377	2728	2923

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4248 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	3.4
10°-20°	352.5	9.7
20°-30°	528.3	14.5
30°-40°	628.6	17.3
40°-50°	645.0	17.8
50°-60°	577.8	15.9
60°-70°	439.1	12.1
70°-80°	255.2	7.0
80°-90°	76.6	2.1
90°-100°	1.8	0.1
100°-110°	0.3	0.0
110°-120°	0.0	0.0
120°-130°	0.2	0.0
130°-140°	0.4	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1004.5	27.7
0°-40°	1633.2	45.0
0°-60°	2856.0	78.7
0°-90°	3626.9	99.9
90°-120°	2.2	0.1
90°-150°	3.3	0.1
90°-180°	4.0	0.1
0°-180°	3631.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1298	1320	1311	1304	1308	123
15°	1240	1264	1256	1254	1258	350
25°	1133	1159	1151	1149	1154	522
35°	988	1012	1005	1008	1014	618
45°	819	839	832	839	846	632
55°	631	646	641	648	654	564
65°	430	440	439	446	450	425
75°	228	236	238	246	253	242
85°	58	63	67	72	72	64
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	1
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: P895390
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0
2.5°	1304.2	1302.3	1304.2	1303.2	1312.8	1324.3	1322.4	1313.8	1304.2	1307.1	1314.7
5°	1298.4	1297.5	1300.4	1298.4	1308.0	1320.5	1316.6	1309.0	1300.4	1303.2	1310.9
7.5°	1288.9	1288.9	1292.7	1290.8	1299.4	1311.9	1308.0	1301.3	1292.7	1295.6	1303.2
10°	1275.5	1276.4	1281.2	1278.3	1286.0	1299.4	1295.6	1288.9	1281.2	1283.1	1290.8
12.5°	1260.1	1260.1	1265.9	1263.0	1270.7	1283.1	1278.3	1273.6	1265.9	1267.8	1276.4
15°	1240.0	1241.0	1247.7	1244.8	1251.5	1264.0	1259.2	1255.4	1248.7	1249.6	1256.3
17.5°	1217.1	1219.9	1226.6	1223.8	1230.5	1242.9	1237.2	1233.3	1227.6	1228.5	1235.3
20°	1192.2	1195.0	1201.7	1199.8	1204.6	1217.1	1211.3	1209.4	1203.7	1204.6	1210.4
22.5°	1164.4	1167.3	1174.9	1173.0	1177.8	1190.2	1183.5	1182.6	1176.8	1177.8	1182.6
25°	1132.8	1136.6	1145.2	1143.3	1147.2	1158.6	1152.9	1151.0	1147.2	1147.2	1151.0
27.5°	1100.2	1104.1	1113.6	1110.8	1113.6	1126.1	1119.4	1118.4	1114.6	1114.6	1118.4
30°	1064.8	1068.6	1079.2	1076.3	1079.2	1089.7	1083.0	1084.0	1080.1	1080.1	1083.0
32.5°	1027.5	1030.3	1041.8	1039.9	1041.8	1052.4	1045.7	1046.6	1042.8	1043.7	1044.7
35°	988.2	991.1	1003.5	1001.6	1002.6	1012.1	1007.4	1007.4	1004.5	1003.5	1005.4
37.5°	948.0	950.9	966.2	961.4	961.4	971.0	967.1	967.1	964.3	963.3	964.3
40°	906.8	908.7	925.0	920.2	919.3	927.9	925.0	925.0	923.1	921.2	922.1
42.5°	863.7	866.6	882.9	879.0	875.2	884.8	881.9	882.9	880.0	878.1	878.1
45°	818.7	821.6	837.9	835.9	830.2	838.8	835.9	837.9	834.0	832.1	832.1
47.5°	773.7	777.5	792.9	790.0	784.2	792.9	790.0	791.9	788.1	786.2	786.2
50°	726.8	730.6	746.9	742.1	736.4	745.0	743.1	744.0	741.2	739.2	738.3
52.5°	678.9	683.7	699.0	693.3	688.5	696.1	695.2	696.1	692.3	691.4	690.4
55°	631.0	635.8	650.2	643.5	639.6	646.4	644.4	646.4	642.5	641.6	640.6
57.5°	581.2	586.0	599.4	592.7	589.9	595.6	594.6	595.6	592.7	591.8	590.8
60°	532.4	536.2	548.7	542.0	539.1	544.9	542.9	545.8	542.0	542.0	541.0
62.5°	480.7	485.5	497.9	490.3	488.4	493.1	491.2	494.1	492.2	490.3	489.3
65°	429.9	432.8	444.3	437.6	434.7	440.5	439.5	441.4	438.6	439.5	438.6
67.5°	379.2	381.1	392.6	384.9	383.0	388.8	389.7	388.8	386.9	387.8	386.9
70°	327.5	329.4	339.0	332.3	331.3	336.1	338.0	337.1	335.1	336.1	337.1
72.5°	277.7	278.6	287.3	281.5	280.6	286.3	286.3	286.3	286.3	286.3	288.2
75°	227.9	228.9	236.5	231.7	230.8	236.5	236.5	236.5	236.5	238.4	237.5
77.5°	180.0	179.1	186.7	183.9	181.9	187.7	187.7	188.6	190.6	192.5	189.6
80°	135.0	134.1	139.8	136.0	136.0	141.7	140.8	141.7	143.6	144.6	145.5
82.5°	94.8	92.9	97.7	96.7	95.8	100.5	101.5	100.5	103.4	104.4	104.4
85°	58.4	58.4	61.3	59.4	59.4	63.2	63.2	64.2	66.1	67.0	67.0
87.5°	27.8	26.8	29.7	28.7	27.8	30.6	30.6	31.6	32.6	33.5	32.6
90°	1.0	1.0	1.9	1.9	1.9	3.8	3.8	3.8	4.8	4.8	3.8
92.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9	1.9
95°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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	1.0



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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	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0
132.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
135°	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
145°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	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	1.0
157.5°	1.0	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	1.0
162.5°	1.0	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	1.0
167.5°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
170°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
172.5°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
175°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0
2.5°	1303.2	1296.5	1293.7	1295.6	1309.0	1295.6	1309.9	1314.7	1297.5	1307.1
5°	1299.4	1292.7	1288.9	1290.8	1304.2	1291.7	1307.1	1312.8	1298.4	1308.0
7.5°	1291.7	1284.1	1282.2	1285.0	1296.5	1286.0	1301.3	1307.1	1292.7	1302.3
10°	1280.3	1273.6	1271.6	1274.5	1285.0	1274.5	1287.9	1292.7	1279.3	1287.9
12.5°	1265.9	1259.2	1257.3	1261.1	1270.7	1261.1	1274.5	1279.3	1265.9	1274.5
15°	1247.7	1241.0	1240.0	1245.8	1254.4	1245.8	1259.2	1263.0	1249.6	1258.2
17.5°	1225.7	1219.0	1219.9	1226.6	1233.3	1225.7	1238.1	1242.0	1229.5	1236.2
20°	1201.7	1194.1	1196.0	1201.7	1207.5	1199.8	1212.3	1216.1	1204.6	1211.3
22.5°	1174.0	1166.3	1168.2	1174.9	1178.8	1172.1	1183.5	1187.4	1177.8	1184.5
25°	1143.3	1136.6	1139.5	1146.2	1149.1	1143.3	1153.9	1156.7	1148.1	1153.9
27.5°	1112.7	1105.0	1108.9	1115.6	1117.5	1111.7	1122.3	1124.2	1115.6	1121.3
30°	1078.2	1070.6	1075.3	1083.0	1083.0	1079.2	1087.8	1089.7	1083.0	1087.8
32.5°	1039.9	1034.2	1039.9	1046.6	1045.7	1042.8	1051.4	1053.3	1047.6	1051.4
35°	1001.6	996.8	1002.6	1009.3	1008.3	1005.4	1014.1	1015.0	1010.2	1014.1
37.5°	962.3	958.5	964.3	970.0	968.1	966.2	973.8	973.8	971.0	974.8
40°	922.1	918.3	923.1	929.8	926.0	926.0	930.7	932.7	929.8	933.6
42.5°	880.0	876.2	881.9	887.7	883.8	882.9	888.6	889.6	887.7	890.5
45°	835.9	832.1	837.9	842.7	838.8	838.8	843.6	843.6	842.7	846.5
47.5°	790.9	788.1	792.9	797.6	793.8	796.7	796.7	796.7	798.6	797.6
50°	745.0	742.1	745.9	751.7	746.9	747.9	749.8	749.8	750.7	751.7
52.5°	697.1	693.3	697.1	703.8	697.1	700.0	700.9	701.9	704.8	702.8
55°	649.2	645.4	649.2	655.0	648.3	652.1	652.1	653.1	655.9	654.0
57.5°	599.4	595.6	601.3	605.2	598.5	602.3	602.3	604.2	606.1	603.3
60°	549.6	546.8	548.7	555.4	548.7	552.5	552.5	552.5	556.3	553.5
62.5°	498.9	497.0	498.9	504.6	497.9	501.8	500.8	501.8	505.6	504.6
65°	447.2	445.3	447.2	452.9	446.2	450.1	450.1	451.0	453.9	450.1
67.5°	396.4	393.6	396.4	401.2	395.5	398.3	398.3	398.3	403.1	401.2
70°	344.7	342.8	344.7	349.5	344.7	346.6	346.6	346.6	351.4	352.4
72.5°	294.0	294.0	295.9	299.7	295.9	299.7	296.8	294.9	301.6	302.6
75°	244.2	245.1	246.1	249.9	246.1	249.9	248.0	246.1	251.8	252.8
77.5°	198.2	198.2	199.2	202.0	199.2	202.0	200.1	200.1	204.0	203.0
80°	151.3	151.3	152.3	155.1	152.3	155.1	153.2	153.2	157.0	153.2
82.5°	110.1	110.1	110.1	113.0	111.1	113.0	112.0	110.1	114.9	111.1
85°	70.9	71.8	71.8	72.8	71.8	72.8	72.8	71.8	74.7	71.8
87.5°	36.4	36.4	36.4	37.3	36.4	36.4	37.3	36.4	38.3	37.3
90°	6.7	5.7	5.7	7.7	6.7	6.7	7.7	5.7	6.7	5.7
92.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.8	3.8
95°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9
97.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
100°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
102.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
105°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0
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	1.0	0.0	0.0	0.0	1.0



TEST NUMBER: P895390
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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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.0	1.0	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°	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
145°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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	1.0
177.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P895390
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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	16.84	18.48	17.21	18.79	19.11	16.98	18.61	17.34	18.93	19.25
	3H	18.66	20.14	19.04	20.47	20.84	18.81	20.29	19.19	20.62	20.98
	4H	19.32	20.72	19.72	21.07	21.45	19.52	20.91	19.92	21.26	21.64
	6H	19.78	21.07	20.19	21.44	21.83	20.07	21.37	20.49	21.73	22.13
	8H	19.92	21.15	20.34	21.54	21.95	20.27	21.50	20.69	21.89	22.30
	12H	20.01	21.20	20.44	21.58	22.01	20.41	21.59	20.84	21.98	22.41
4H	2H	17.47	18.87	17.87	19.22	19.60	17.58	18.98	17.98	19.33	19.71
	3H	19.51	20.69	19.93	21.09	21.49	19.65	20.82	20.06	21.22	21.62
	4H	20.31	21.37	20.74	21.78	22.22	20.49	21.55	20.93	21.97	22.41
	6H	20.88	21.81	21.34	22.25	22.71	21.19	22.11	21.64	22.56	23.01
	8H	21.07	21.94	21.53	22.39	22.85	21.43	22.30	21.89	22.74	23.21
	12H	21.22	22.00	21.70	22.48	22.95	21.62	22.41	22.11	22.88	23.35
8H	4H	20.64	21.51	21.10	21.95	22.42	20.80	21.67	21.26	22.12	22.58
	6H	21.34	22.06	21.83	22.55	23.03	21.63	22.35	22.12	22.84	23.32
	8H	21.60	22.25	22.11	22.76	23.25	21.96	22.61	22.47	23.12	23.60
	12H	21.82	22.39	22.33	22.89	23.45	22.24	22.82	22.75	23.31	23.87
12H	4H	20.68	21.46	21.16	21.94	22.41	20.83	21.62	21.32	22.09	22.57
	6H	21.41	22.06	21.92	22.57	23.06	21.68	22.34	22.19	22.84	23.33
	8H	21.74	22.31	22.24	22.80	23.37	22.08	22.65	22.59	23.15	23.71