

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: P895114

Luminaire Tested: 8TMB-6SL-FLTU-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-6SL-FLTU-UNV-L935
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 350
Light Source: -
Ballast/Driver: -

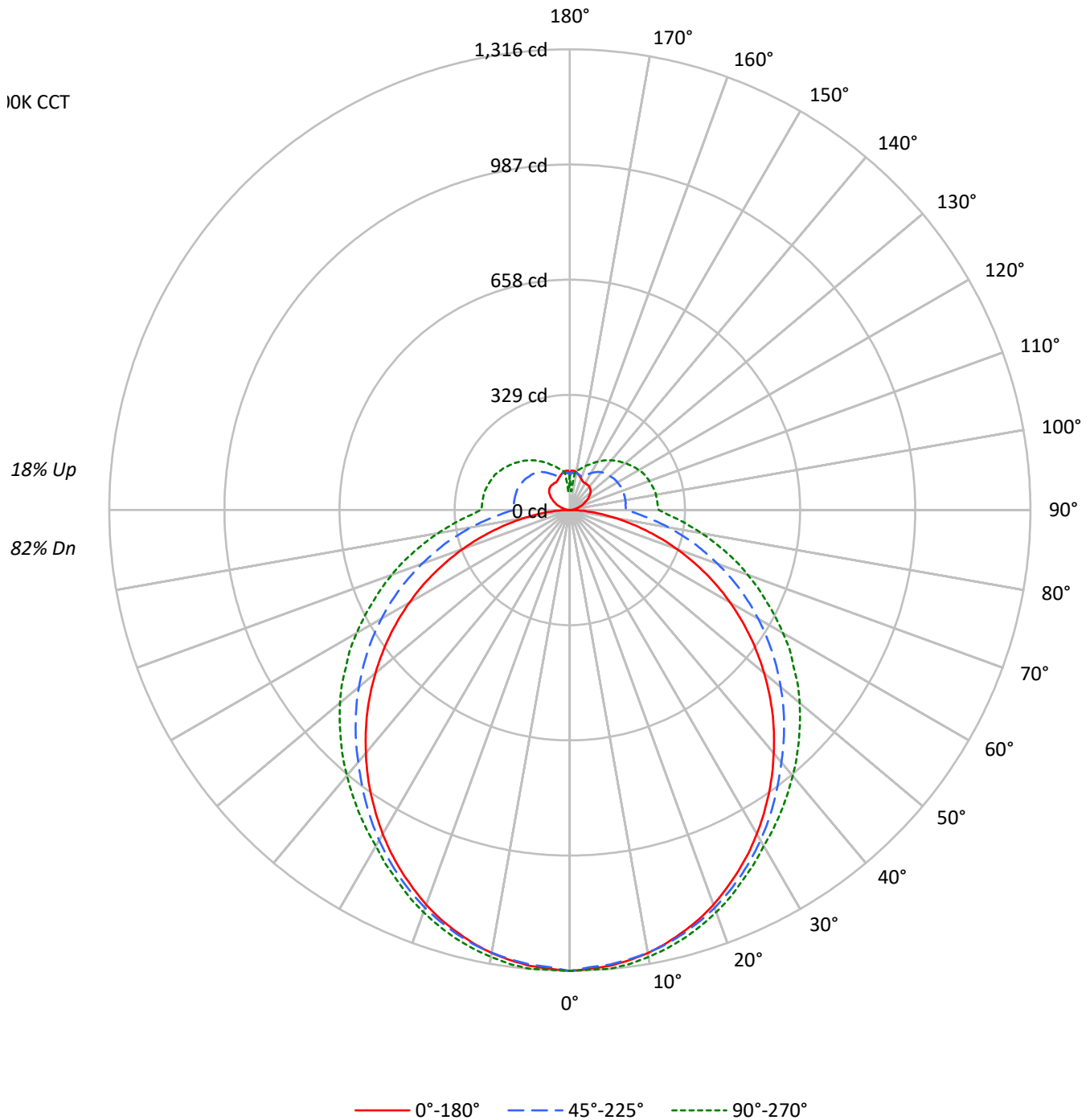
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4977.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.51
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-6SL-FLTU-UNV-L935

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4671	4671	4671
5°	4644	4483	4470
10°	4609	4317	4258
15°	4552	4150	4055
20°	4488	3979	3849
25°	4404	3799	3640
30°	4314	3616	3450
35°	4214	3431	3293
40°	4109	3248	3143
45°	4004	3089	3001
50°	3881	2925	2862
55°	3750	2763	2708
60°	3592	2590	2561
65°	3403	2407	2395
70°	3154	2206	2240
75°	2808	1999	2073
80°	2355	1778	1902
85°	1771	1553	1745

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4004 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	2.5
10°-20°	355.1	7.1
20°-30°	533.5	10.7
30°-40°	640.6	12.9
40°-50°	673.6	13.5
50°-60°	632.9	12.7
60°-70°	526.3	10.6
70°-80°	375.5	7.5
80°-90°	223.5	4.5
90°-100°	161.8	3.3
100°-110°	159.7	3.2
110°-120°	150.0	3.0
120°-130°	132.9	2.7
130°-140°	110.1	2.2
140°-150°	82.4	1.7
150°-160°	54.2	1.1
160°-170°	30.7	0.6
170°-180°	9.8	0.2
0°-30°	1013.0	20.4
0°-40°	1653.6	33.2
0°-60°	2960.1	59.5
0°-90°	4085.4	82.1
90°-120°	471.4	9.5
90°-150°	796.9	16.0
90°-180°	892.0	17.9
0°-180°	4977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1307	1322	1303	1307	1315	124
15°	1248	1267	1253	1261	1266	352
25°	1139	1160	1154	1165	1167	524
35°	991	1014	1017	1042	1052	620
45°	819	842	866	910	926	631
55°	629	654	706	764	780	562
65°	428	463	536	604	620	423
75°	225	275	367	438	460	239
85°	56	124	215	287	311	62
90°	0	71	160	230	254	4
95°	6	74	160	227	251	7
105°	23	83	161	225	246	24
115°	44	90	160	215	237	44
125°	67	96	155	202	218	60
135°	83	101	147	184	197	64
145°	88	99	132	164	173	55
155°	89	100	112	138	147	42
165°	102	108	105	106	123	29
175°	113	112	106	90	54	11
180°	99	99	99	99	99	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5
2.5°	1311.7	1315.3	1316.5	1328.5	1323.7	1328.5	1320.1	1310.5	1308.1	1314.1	1306.9
5°	1306.9	1310.5	1311.7	1323.7	1318.9	1322.5	1315.3	1305.7	1303.3	1310.5	1303.3
7.5°	1297.3	1300.9	1302.1	1315.3	1309.3	1314.1	1305.7	1296.1	1294.9	1302.1	1294.9
10°	1285.2	1288.8	1290.1	1302.1	1297.3	1302.1	1293.7	1284.0	1282.8	1291.3	1284.0
12.5°	1268.4	1272.0	1274.4	1286.4	1280.4	1286.4	1276.8	1267.2	1268.4	1275.6	1270.8
15°	1248.0	1252.8	1254.0	1266.0	1261.2	1267.2	1257.6	1248.0	1250.4	1257.6	1252.8
17.5°	1226.3	1231.1	1232.3	1243.2	1238.4	1245.6	1234.7	1226.3	1228.7	1235.9	1232.3
20°	1199.9	1204.7	1207.1	1217.9	1213.1	1220.3	1209.5	1202.3	1204.7	1213.1	1209.5
22.5°	1169.8	1177.0	1178.2	1190.3	1184.2	1191.5	1180.6	1174.6	1178.2	1186.7	1183.0
25°	1138.6	1145.8	1147.0	1159.0	1154.2	1160.2	1149.4	1143.4	1148.2	1156.6	1154.2
27.5°	1104.9	1112.1	1114.5	1125.3	1120.5	1127.7	1115.7	1112.1	1116.9	1125.3	1122.9
30°	1068.8	1076.0	1077.2	1088.1	1084.5	1091.7	1080.9	1076.0	1083.3	1091.7	1089.3
32.5°	1030.4	1037.6	1041.2	1050.8	1047.2	1053.2	1043.6	1041.2	1047.2	1055.6	1054.4
35°	990.7	997.9	1001.5	1012.3	1007.5	1013.5	1003.9	1001.5	1011.1	1017.1	1017.1
37.5°	949.8	957.0	960.6	971.4	965.4	972.6	963.0	961.8	972.6	978.7	978.7
40°	906.5	914.9	918.5	928.2	923.4	929.4	920.9	922.2	931.8	939.0	940.2
42.5°	863.2	871.7	875.3	886.1	880.1	886.1	878.9	880.1	890.9	898.1	904.1
45°	818.8	826.0	829.6	841.6	834.4	841.6	834.4	836.8	847.6	858.4	865.6
47.5°	771.9	779.1	785.1	794.7	788.7	794.7	789.9	793.5	806.7	817.6	827.2
50°	725.0	732.2	738.2	746.6	740.6	749.0	743.0	747.8	764.7	775.5	786.3
52.5°	676.9	682.9	692.5	697.3	692.5	702.1	697.3	704.5	721.4	734.6	746.6
55°	628.8	634.8	644.4	648.0	643.2	654.0	650.4	660.1	678.1	692.5	705.7
57.5°	579.5	585.5	593.9	597.5	593.9	606.0	604.7	615.6	633.6	649.2	663.7
60°	529.0	535.0	542.2	545.8	545.8	557.9	557.9	571.1	590.3	604.7	621.6
62.5°	479.7	483.3	490.5	495.3	498.9	511.0	511.0	525.4	545.8	562.7	579.5
65°	428.0	431.6	437.6	443.6	449.7	462.9	464.1	479.7	500.2	517.0	536.2
67.5°	376.3	379.9	385.9	393.1	401.6	414.8	417.2	434.0	455.7	474.9	492.9
70°	325.8	327.0	334.2	343.9	353.5	366.7	370.3	388.3	411.2	430.4	449.7
72.5°	275.3	276.5	283.7	295.8	306.6	321.0	325.8	345.1	367.9	387.1	406.4
75°	224.8	226.0	235.6	250.1	262.1	275.3	281.3	301.8	324.6	345.1	366.7
77.5°	176.7	179.1	188.8	203.2	217.6	233.2	239.3	259.7	284.9	304.2	324.6
80°	132.3	134.7	145.5	161.1	176.7	191.2	198.4	218.8	245.3	264.5	287.3
82.5°	91.4	95.0	108.2	125.0	140.7	156.3	163.5	182.7	206.8	228.4	250.1
85°	56.5	61.3	74.5	92.6	109.4	123.8	131.0	151.5	174.3	194.8	215.2
87.5°	26.5	33.7	46.9	64.9	83.0	95.0	103.4	123.8	145.5	165.9	186.4
90°	0.0	10.8	24.0	42.1	60.1	70.9	80.6	99.8	121.4	140.7	159.9
92.5°	2.4	12.0	26.5	43.3	61.3	72.1	81.8	101.0	121.4	140.7	159.9
95°	6.0	13.2	27.7	45.7	63.7	74.5	83.0	102.2	122.6	141.9	159.9
97.5°	10.8	16.8	31.3	48.1	66.1	75.7	85.4	104.6	123.8	143.1	161.1
100°	14.4	19.2	33.7	50.5	68.5	78.1	87.8	105.8	125.0	144.3	161.1
102.5°	18.0	24.0	37.3	52.9	70.9	80.6	89.0	107.0	126.2	144.3	161.1
105°	22.8	27.7	39.7	56.5	73.3	83.0	91.4	109.4	127.4	145.5	161.1
107.5°	27.7	31.3	43.3	58.9	75.7	84.2	92.6	110.6	128.6	145.5	161.1
110°	33.7	36.1	46.9	61.3	76.9	86.6	95.0	111.8	128.6	145.5	161.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	39.7	39.7	50.5	63.7	79.4	87.8	96.2	113.0	129.8	145.5	161.1
115°	44.5	45.7	54.1	66.1	81.8	90.2	97.4	113.0	129.8	145.5	159.9
117.5°	50.5	50.5	58.9	68.5	83.0	91.4	99.8	114.2	129.8	144.3	158.7
120°	56.5	55.3	62.5	72.1	85.4	92.6	101.0	115.4	129.8	144.3	157.5
122.5°	62.5	60.1	64.9	74.5	86.6	95.0	101.0	115.4	129.8	143.1	156.3
125°	67.3	64.9	68.5	78.1	89.0	96.2	102.2	115.4	129.8	141.9	155.1
127.5°	72.1	69.7	73.3	80.6	90.2	96.2	103.4	115.4	129.8	140.7	152.7
130°	76.9	73.3	78.1	83.0	92.6	97.4	103.4	115.4	128.6	139.5	150.3
132.5°	80.6	76.9	81.8	85.4	93.8	98.6	104.6	115.4	127.4	138.3	149.1
135°	83.0	79.4	85.4	87.8	96.2	101.0	105.8	115.4	126.2	137.1	146.7
137.5°	85.4	80.6	87.8	90.2	97.4	102.2	105.8	114.2	125.0	134.7	144.3
140°	86.6	83.0	90.2	92.6	96.2	101.0	105.8	113.0	122.6	132.3	140.7
142.5°	87.8	83.0	91.4	93.8	96.2	99.8	104.6	110.6	120.2	128.6	137.1
145°	87.8	84.2	91.4	93.8	96.2	98.6	102.2	109.4	116.6	123.8	132.3
147.5°	87.8	85.4	92.6	95.0	97.4	97.4	99.8	107.0	113.0	120.2	127.4
150°	89.0	85.4	92.6	95.0	98.6	98.6	99.8	103.4	110.6	115.4	121.4
152.5°	87.8	86.6	91.4	96.2	98.6	99.8	99.8	101.0	107.0	111.8	116.6
155°	89.0	89.0	92.6	98.6	99.8	99.8	101.0	99.8	102.2	107.0	111.8
157.5°	91.4	93.8	93.8	99.8	102.2	102.2	103.4	102.2	101.0	102.2	107.0
160°	95.0	97.4	97.4	101.0	104.6	104.6	105.8	104.6	103.4	102.2	102.2
162.5°	98.6	101.0	101.0	102.2	105.8	107.0	108.2	107.0	105.8	103.4	102.2
165°	102.2	104.6	104.6	104.6	107.0	108.2	109.4	108.2	108.2	105.8	104.6
167.5°	105.8	108.2	108.2	107.0	108.2	109.4	110.6	109.4	109.4	108.2	105.8
170°	109.4	111.8	111.8	109.4	110.6	110.6	111.8	110.6	110.6	108.2	107.0
172.5°	111.8	114.2	113.0	111.8	111.8	111.8	111.8	110.6	109.4	107.0	107.0
175°	113.0	115.4	115.4	113.0	111.8	111.8	113.0	110.6	109.4	108.2	105.8
177.5°	113.0	115.4	115.4	113.0	113.0	111.8	113.0	111.8	111.8	109.4	107.0
180°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5
2.5°	1311.7	1310.5	1303.3	1311.7	1311.7	1309.3	1318.9	1317.7	1316.5	1314.1
5°	1306.9	1305.7	1298.5	1306.9	1306.9	1305.7	1315.3	1316.5	1317.7	1315.3
7.5°	1299.7	1298.5	1291.3	1299.7	1299.7	1298.5	1309.3	1310.5	1311.7	1308.1
10°	1288.8	1287.6	1280.4	1288.8	1290.1	1288.8	1297.3	1298.5	1300.9	1296.1
12.5°	1274.4	1274.4	1267.2	1275.6	1276.8	1275.6	1284.0	1286.4	1288.8	1282.8
15°	1256.4	1257.6	1251.6	1260.0	1261.2	1261.2	1269.6	1270.8	1274.4	1266.0
17.5°	1234.7	1237.2	1232.3	1240.8	1242.0	1243.2	1248.0	1251.6	1255.2	1245.6
20°	1211.9	1213.1	1209.5	1216.7	1219.1	1217.9	1223.9	1228.7	1232.3	1222.7
22.5°	1184.2	1185.5	1181.8	1189.1	1191.5	1192.7	1197.5	1203.5	1205.9	1197.5
25°	1153.0	1157.8	1155.4	1162.6	1165.0	1165.0	1169.8	1175.8	1179.4	1167.4
27.5°	1122.9	1128.9	1126.5	1133.8	1136.2	1137.4	1139.8	1147.0	1150.6	1139.8
30°	1089.3	1096.5	1095.3	1102.5	1104.9	1103.7	1108.5	1115.7	1120.5	1108.5
32.5°	1052.0	1061.6	1060.4	1070.0	1072.4	1073.6	1077.2	1086.9	1091.7	1080.9
35°	1015.9	1026.8	1028.0	1038.8	1042.4	1043.6	1048.4	1058.0	1062.8	1052.0
37.5°	978.7	993.1	996.7	1007.5	1011.1	1012.3	1017.1	1028.0	1032.8	1021.9
40°	942.6	959.4	964.2	973.8	977.5	981.1	984.7	995.5	1001.5	990.7
42.5°	906.5	924.6	930.6	940.2	943.8	947.4	952.2	964.2	969.0	959.4
45°	869.3	888.5	895.7	905.3	910.1	913.7	918.5	929.4	935.4	925.8
47.5°	832.0	851.2	858.4	869.3	874.1	878.9	882.5	895.7	901.7	892.1
50°	792.3	813.9	822.4	832.0	839.2	842.8	847.6	859.6	865.6	857.2
52.5°	752.6	775.5	785.1	794.7	801.9	807.9	810.3	823.6	829.6	821.2
55°	711.8	734.6	745.4	756.2	763.5	770.7	773.1	786.3	792.3	780.3
57.5°	670.9	694.9	705.7	717.8	723.8	732.2	735.8	747.8	753.8	745.4
60°	630.0	652.8	666.1	676.9	685.3	692.5	694.9	708.1	714.2	703.3
62.5°	587.9	612.0	625.2	637.2	644.4	652.8	656.4	668.5	673.3	662.5
65°	544.6	568.7	583.1	593.9	603.5	610.8	613.2	626.4	631.2	620.4
67.5°	501.4	525.4	541.0	553.1	561.5	569.9	572.3	585.5	590.3	581.9
70°	459.3	483.3	498.9	513.4	519.4	527.8	531.4	543.4	548.2	541.0
72.5°	417.2	441.2	458.1	472.5	478.5	486.9	491.7	501.4	508.6	502.6
75°	376.3	400.4	417.2	431.6	437.6	446.0	450.9	460.5	465.3	460.5
77.5°	336.6	360.7	376.3	390.7	398.0	405.2	410.0	419.6	425.6	420.8
80°	298.2	322.2	337.8	351.1	358.3	365.5	370.3	381.1	385.9	382.3
82.5°	262.1	284.9	301.8	315.0	322.2	329.4	334.2	343.9	349.9	345.1
85°	229.6	252.5	268.1	281.3	287.3	294.6	299.4	309.0	313.8	311.4
87.5°	198.4	218.8	236.8	250.1	256.1	263.3	269.3	276.5	282.5	278.9
90°	174.3	192.4	209.2	222.4	229.6	236.8	244.1	251.3	256.1	253.7
92.5°	175.5	192.4	208.0	220.0	227.2	234.4	241.7	250.1	253.7	251.3
95°	175.5	192.4	208.0	220.0	227.2	234.4	241.7	250.1	253.7	251.3
97.5°	175.5	192.4	208.0	220.0	227.2	234.4	241.7	250.1	253.7	250.1
100°	175.5	192.4	208.0	220.0	227.2	233.2	240.5	248.9	252.5	250.1
102.5°	175.5	192.4	206.8	218.8	226.0	232.0	239.3	247.7	251.3	248.9
105°	175.5	191.2	206.8	217.6	224.8	230.8	238.1	245.3	248.9	246.5
107.5°	174.3	190.0	204.4	216.4	222.4	228.4	235.6	242.9	246.5	244.1
110°	174.3	188.8	203.2	214.0	220.0	226.0	233.2	240.5	244.1	241.7



TEST NUMBER: P895114
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	173.1	187.6	202.0	211.6	217.6	223.6	229.6	238.1	241.7	239.3
115°	171.9	186.4	199.6	209.2	215.2	220.0	227.2	235.6	238.1	236.8
117.5°	170.7	183.9	197.2	206.8	212.8	217.6	223.6	230.8	234.4	233.2
120°	169.5	181.5	194.8	203.2	209.2	214.0	218.8	226.0	229.6	227.2
122.5°	167.1	179.1	192.4	200.8	205.6	210.4	215.2	221.2	224.8	223.6
125°	164.7	176.7	188.8	197.2	202.0	205.6	210.4	216.4	218.8	217.6
127.5°	162.3	174.3	185.2	192.4	198.4	202.0	205.6	211.6	214.0	212.8
130°	159.9	170.7	181.5	188.8	193.6	197.2	200.8	206.8	208.0	208.0
132.5°	157.5	167.1	177.9	185.2	190.0	192.4	196.0	200.8	203.2	202.0
135°	155.1	163.5	174.3	180.3	183.9	187.6	191.2	196.0	197.2	197.2
137.5°	151.5	159.9	169.5	175.5	179.1	181.5	185.2	190.0	191.2	191.2
140°	147.9	156.3	164.7	169.5	174.3	176.7	179.1	183.9	185.2	185.2
142.5°	144.3	151.5	159.9	164.7	169.5	170.7	174.3	177.9	179.1	179.1
145°	139.5	147.9	155.1	159.9	163.5	164.7	168.3	171.9	171.9	173.1
147.5°	133.5	140.7	150.3	153.9	157.5	158.7	162.3	164.7	165.9	165.9
150°	127.4	134.7	143.1	149.1	152.7	153.9	155.1	158.7	158.7	159.9
152.5°	121.4	127.4	135.9	141.9	146.7	147.9	149.1	151.5	151.5	152.7
155°	115.4	120.2	127.4	133.5	138.3	140.7	143.1	145.5	145.5	146.7
157.5°	110.6	115.4	121.4	126.2	129.8	133.5	137.1	139.5	139.5	139.5
160°	104.6	108.2	114.2	117.8	122.6	125.0	131.0	133.5	133.5	134.7
162.5°	101.0	102.2	105.8	109.4	113.0	115.4	121.4	127.4	127.4	128.6
165°	102.2	101.0	102.2	103.4	105.8	107.0	110.6	119.0	121.4	122.6
167.5°	104.6	101.0	101.0	101.0	103.4	103.4	107.0	111.8	120.2	117.8
170°	104.6	101.0	98.6	98.6	99.8	98.6	101.0	104.6	109.4	114.2
172.5°	105.8	102.2	98.6	93.8	95.0	93.8	91.4	91.4	92.6	108.2
175°	104.6	102.2	97.4	91.4	90.2	86.6	79.4	73.3	69.7	54.1
177.5°	103.4	99.8	96.2	91.4	89.0	85.4	76.9	67.3	57.7	55.3
180°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6



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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	13.06	14.38	13.68	15.02	15.74	15.69	17.01	16.31	17.64	18.37
	3H	14.47	15.67	15.09	16.31	17.06	18.15	19.35	18.78	20.00	20.75
	4H	14.89	16.03	15.54	16.69	17.46	19.32	20.46	19.97	21.11	21.88
	6H	15.13	16.19	15.79	16.85	17.64	20.50	21.56	21.16	22.22	23.01
	8H	15.17	16.18	15.84	16.87	17.66	21.09	22.11	21.77	22.79	23.58
	12H	15.18	16.15	15.86	16.83	17.65	21.73	22.70	22.41	23.38	24.19
4H	2H	13.97	15.10	14.62	15.76	16.53	16.04	17.17	16.69	17.83	18.60
	3H	15.59	16.55	16.25	17.25	18.04	18.70	19.67	19.36	20.36	21.15
	4H	16.14	17.03	16.82	17.72	18.54	20.02	20.90	20.70	21.60	22.42
	6H	16.48	17.26	17.18	17.98	18.81	21.37	22.15	22.07	22.87	23.69
	8H	16.56	17.29	17.26	18.01	18.85	22.06	22.79	22.76	23.51	24.35
	12H	16.59	17.25	17.31	17.99	18.84	22.81	23.47	23.53	24.22	25.06
8H	4H	16.81	17.54	17.51	18.26	19.10	20.16	20.90	20.87	21.61	22.45
	6H	17.31	17.93	18.04	18.69	19.53	21.66	22.28	22.39	23.04	23.88
	8H	17.46	18.02	18.21	18.78	19.64	22.47	23.02	23.21	23.79	24.64
	12H	17.55	18.05	18.30	18.80	19.72	23.38	23.87	24.13	24.63	25.54
12H	4H	16.98	17.64	17.70	18.38	19.23	20.15	20.82	20.88	21.56	22.41
	6H	17.57	18.13	18.32	18.89	19.75	21.67	22.23	22.42	22.99	23.85
	8H	17.81	18.30	18.56	19.06	19.97	22.54	23.03	23.28	23.78	24.70