

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: P895163

Luminaire Tested: 8TMB-6SL-RNDU-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-6SL-RNDU-UNV-L940
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 4
Light Source: -
Ballast/Driver: -

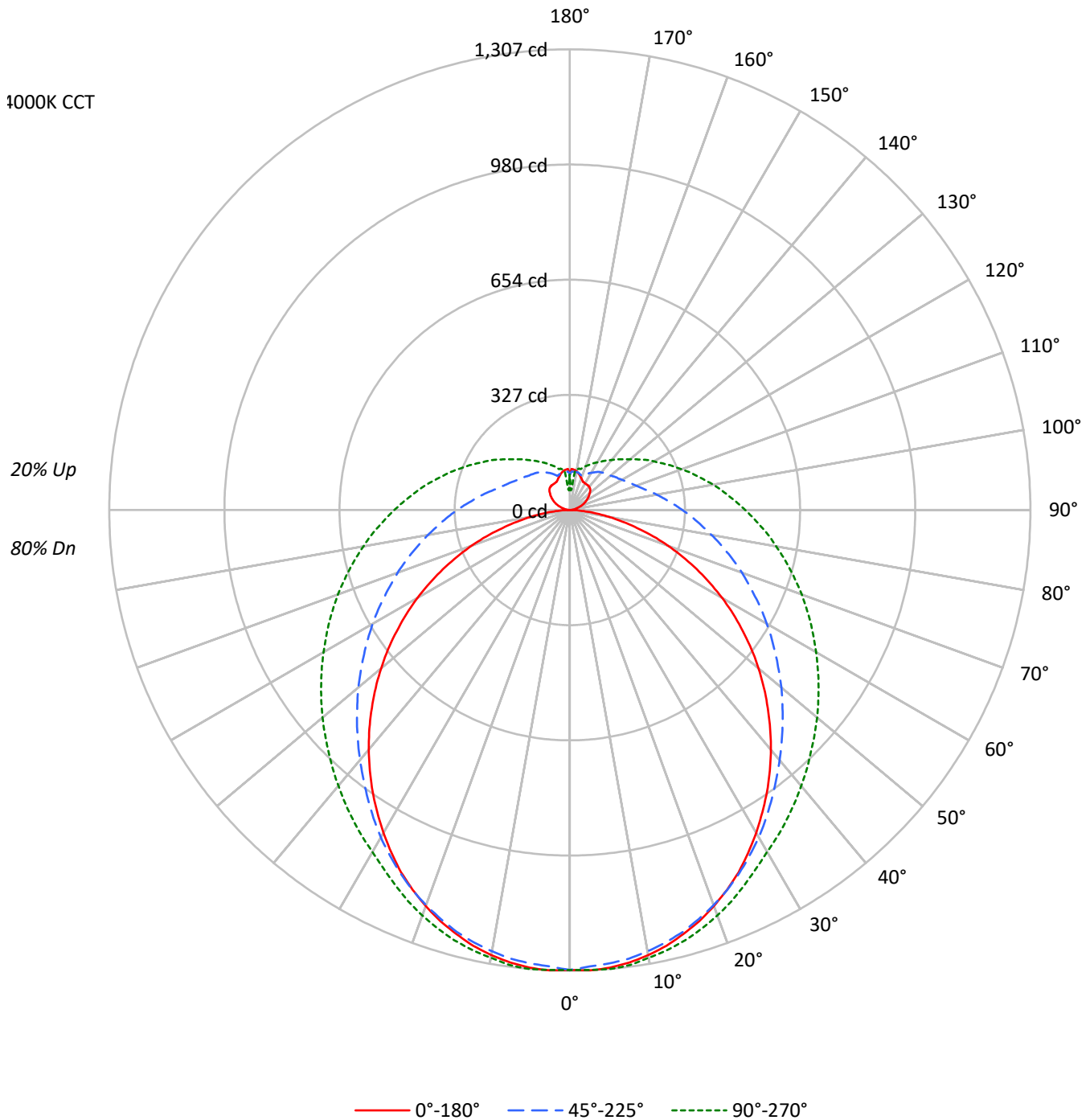
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5488.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 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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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	83	83	83	80
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	65	65	65	61
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	53	53	53	49
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	44	44	44	41
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	37	37	37	34
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	32	32	32	29
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	28	28	28	26
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	25	25	25	23
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	22	22	22	20
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4630	4630	4630
5°	4632	4441	4443
10°	4599	4274	4238
15°	4542	4105	4048
20°	4472	3925	3854
25°	4384	3743	3658
30°	4269	3560	3485
35°	4151	3371	3358
40°	4023	3200	3242
45°	3885	3048	3139
50°	3741	2914	3059
55°	3576	2790	2990
60°	3389	2690	2938
65°	3159	2602	2909
70°	2872	2551	2899
75°	2481	2517	2912
80°	2011	2527	2958
85°	1401	2608	3055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3885 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	2.2
10°-20°	352.0	6.4
20°-30°	528.5	9.6
30°-40°	635.5	11.6
40°-50°	673.3	12.3
50°-60°	648.4	11.8
60°-70°	573.9	10.5
70°-80°	470.7	8.6
80°-90°	365.2	6.7
90°-100°	283.5	5.2
100°-110°	224.6	4.1
110°-120°	178.9	3.3
120°-130°	142.1	2.6
130°-140°	111.0	2.0
140°-150°	81.7	1.5
150°-160°	54.0	1.0
160°-170°	31.1	0.6
170°-180°	10.0	0.2
0°-30°	1003.9	18.3
0°-40°	1639.4	29.9
0°-60°	2961.2	54.0
0°-90°	4371.0	79.6
90°-120°	687.1	12.5
90°-150°	1021.9	18.6
90°-180°	1117.0	20.4
0°-180°	5488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1304	1305	1291	1301	1307	124
15°	1245	1246	1239	1258	1264	351
25°	1134	1137	1137	1166	1173	521
35°	976	988	999	1052	1073	610
45°	794	813	854	935	968	613
55°	600	629	713	818	862	536
65°	397	452	580	701	754	393
75°	199	298	462	592	647	212
85°	45	180	361	493	545	51
90°	1	142	319	447	498	3
95°	6	117	282	404	453	7
105°	22	94	222	330	374	24
115°	45	91	185	269	305	44
125°	65	94	161	222	250	58
135°	82	101	145	186	204	63
145°	87	99	132	160	170	54
155°	88	103	113	137	144	41
165°	104	110	107	107	120	29
175°	116	114	109	91	61	11
180°	101	101	101	101	101	



TEST NUMBER: P895163
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8
2.5°	1307.3	1306.0	1308.5	1311.0	1318.4	1308.5	1313.5	1299.8	1301.1	1302.3	1296.1
5°	1303.5	1299.8	1303.5	1306.0	1312.2	1304.8	1309.7	1294.8	1296.1	1298.6	1291.1
7.5°	1294.8	1291.1	1293.6	1296.1	1302.3	1294.8	1301.1	1286.2	1288.6	1289.9	1283.7
10°	1282.4	1277.5	1280.0	1283.7	1288.6	1282.4	1287.4	1273.7	1275.0	1277.5	1271.3
12.5°	1266.3	1261.3	1263.8	1266.3	1272.5	1266.3	1271.3	1257.6	1260.1	1262.6	1256.4
15°	1245.2	1240.2	1242.7	1245.2	1250.2	1246.4	1251.4	1237.7	1240.2	1245.2	1239.0
17.5°	1222.8	1215.4	1217.9	1221.6	1226.6	1224.1	1227.8	1216.6	1217.9	1222.8	1216.6
20°	1195.5	1188.1	1190.6	1194.3	1199.3	1198.0	1200.5	1190.6	1193.0	1199.3	1193.0
22.5°	1165.7	1158.3	1160.8	1165.7	1169.5	1169.5	1170.7	1163.3	1165.7	1171.9	1167.0
25°	1133.5	1126.0	1128.5	1133.5	1137.2	1137.2	1139.7	1132.2	1135.9	1142.1	1137.2
27.5°	1096.2	1092.5	1092.5	1097.5	1099.9	1102.4	1103.7	1097.5	1102.4	1108.6	1104.9
30°	1057.7	1052.8	1055.2	1061.5	1061.5	1066.4	1066.4	1061.5	1067.7	1075.1	1072.6
32.5°	1016.8	1013.0	1014.3	1021.7	1021.7	1027.9	1026.7	1024.2	1030.4	1039.1	1036.6
35°	975.8	972.1	973.3	980.8	980.8	988.2	985.7	985.7	991.9	1001.9	999.4
37.5°	932.3	929.9	931.1	938.5	938.5	946.0	943.5	944.8	952.2	963.4	962.1
40°	887.6	885.2	887.6	893.9	896.3	902.5	900.1	902.5	912.5	922.4	926.1
42.5°	841.7	840.5	843.0	849.2	851.6	857.9	856.6	860.3	870.3	885.2	890.1
45°	794.5	794.5	797.0	803.2	805.7	813.2	811.9	816.9	829.3	845.4	854.1
47.5°	747.4	748.6	749.8	757.3	757.3	769.7	766.0	773.4	789.6	808.2	818.1
50°	698.9	701.4	702.7	708.9	711.4	722.5	720.1	732.5	749.8	769.7	783.4
52.5°	650.5	653.0	655.5	660.5	662.9	676.6	674.1	690.3	711.4	732.5	747.4
55°	599.6	604.6	605.8	612.0	615.8	629.4	629.4	648.0	670.4	694.0	712.6
57.5°	550.0	554.9	556.2	563.6	568.6	584.7	587.2	608.3	633.1	656.7	679.1
60°	499.1	505.3	506.5	514.0	522.7	540.0	543.8	567.3	594.7	619.5	645.6
62.5°	448.2	454.4	456.9	464.3	478.0	495.3	501.6	528.9	557.4	584.7	613.3
65°	397.3	403.5	407.2	417.1	433.3	451.9	460.6	489.1	521.4	550.0	579.8
67.5°	346.4	353.8	358.8	371.2	392.3	412.2	420.9	453.1	486.7	517.7	548.7
70°	296.7	304.2	310.4	326.5	351.3	371.2	382.4	417.1	451.9	485.4	520.2
72.5°	248.3	255.7	264.4	284.3	311.6	334.0	346.4	382.4	420.9	454.4	490.4
75°	198.6	207.3	217.3	244.6	275.6	298.0	311.6	350.1	389.8	423.3	461.8
77.5°	153.9	162.6	177.5	204.8	239.6	264.4	279.3	320.3	361.3	394.8	434.5
80°	113.0	121.7	141.5	171.3	207.3	230.9	249.5	291.7	334.0	368.7	408.4
82.5°	77.0	85.7	109.2	141.5	180.0	203.6	221.0	265.7	307.9	343.9	383.6
85°	44.7	57.1	81.9	116.7	156.4	180.0	197.4	243.3	284.3	320.3	361.3
87.5°	19.9	34.8	62.1	96.8	136.6	158.9	177.5	219.7	263.2	299.2	340.2
90°	1.2	19.9	48.4	81.9	120.4	141.5	158.9	201.1	242.1	279.3	319.1
92.5°	2.5	13.7	39.7	70.8	106.8	127.9	145.3	185.0	223.5	261.9	300.4
95°	6.2	13.7	34.8	63.3	96.8	116.7	132.8	171.3	207.3	244.6	281.8
97.5°	9.9	14.9	33.5	59.6	89.4	108.0	122.9	158.9	194.9	228.4	265.7
100°	13.7	18.6	33.5	57.1	84.4	101.8	115.5	149.0	182.5	213.5	250.8
102.5°	17.4	22.3	36.0	57.1	81.9	96.8	110.5	141.5	172.6	201.1	235.9
105°	22.3	26.1	38.5	57.1	79.5	94.4	105.5	134.1	163.9	191.2	222.2
107.5°	27.3	29.8	41.0	58.3	79.5	91.9	103.0	129.1	156.4	181.3	211.0
110°	33.5	34.8	44.7	60.8	79.5	90.6	100.6	125.4	150.2	173.8	201.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	38.5	38.5	48.4	63.3	79.5	90.6	99.3	121.7	145.3	166.4	192.4
115°	44.7	44.7	52.1	65.8	80.7	90.6	99.3	120.4	141.5	160.1	185.0
117.5°	49.7	49.7	57.1	68.3	83.2	91.9	99.3	117.9	137.8	155.2	177.5
120°	54.6	54.6	59.6	70.8	84.4	93.1	99.3	116.7	134.1	151.5	171.3
122.5°	59.6	59.6	63.3	74.5	85.7	93.1	99.3	115.5	131.6	146.5	165.1
125°	64.6	64.6	67.0	77.0	88.1	94.4	100.6	115.5	130.4	142.8	161.4
127.5°	69.5	68.3	72.0	80.7	89.4	95.6	101.8	115.5	127.9	140.3	156.4
130°	73.2	72.0	77.0	83.2	91.9	96.8	101.8	114.2	126.6	137.8	151.5
132.5°	78.2	75.7	81.9	84.4	94.4	99.3	103.0	114.2	125.4	135.3	149.0
135°	81.9	79.5	85.7	88.1	95.6	100.6	104.3	114.2	124.1	134.1	145.3
137.5°	84.4	83.2	89.4	91.9	96.8	101.8	105.5	114.2	122.9	131.6	142.8
140°	85.7	84.4	89.4	94.4	96.8	101.8	104.3	113.0	121.7	129.1	139.0
142.5°	86.9	86.9	90.6	95.6	96.8	100.6	104.3	111.7	119.2	125.4	136.6
145°	86.9	86.9	90.6	96.8	98.1	99.3	101.8	109.2	115.5	121.7	131.6
147.5°	86.9	86.9	91.9	96.8	99.3	100.6	99.3	106.8	113.0	117.9	126.6
150°	86.9	86.9	91.9	96.8	100.6	101.8	100.6	104.3	109.2	114.2	121.7
152.5°	88.1	88.1	91.9	96.8	100.6	101.8	101.8	101.8	105.5	110.5	117.9
155°	88.1	89.4	91.9	99.3	101.8	103.0	103.0	103.0	101.8	106.8	113.0
157.5°	91.9	93.1	94.4	100.6	103.0	104.3	104.3	104.3	103.0	101.8	108.0
160°	95.6	96.8	98.1	103.0	105.5	106.8	106.8	106.8	104.3	103.0	103.0
162.5°	99.3	101.8	101.8	104.3	106.8	108.0	108.0	109.2	106.8	105.5	104.3
165°	104.3	105.5	105.5	106.8	109.2	110.5	109.2	110.5	109.2	108.0	106.8
167.5°	108.0	109.2	109.2	110.5	110.5	111.7	111.7	111.7	110.5	109.2	109.2
170°	111.7	113.0	113.0	113.0	113.0	113.0	113.0	113.0	111.7	109.2	109.2
172.5°	114.2	115.5	115.5	114.2	114.2	114.2	114.2	113.0	110.5	109.2	109.2
175°	115.5	116.7	116.7	115.5	114.2	114.2	114.2	113.0	110.5	109.2	109.2
177.5°	116.7	117.9	116.7	116.7	114.2	114.2	114.2	114.2	111.7	110.5	109.2
180°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8
2.5°	1303.5	1288.6	1298.6	1299.8	1304.8	1299.8	1303.5	1299.8	1309.7	1306.0
5°	1298.6	1284.9	1293.6	1294.8	1301.1	1294.8	1301.1	1298.6	1311.0	1307.3
7.5°	1289.9	1278.7	1286.2	1287.4	1294.8	1288.6	1294.8	1292.4	1307.3	1302.3
10°	1277.5	1268.8	1276.2	1277.5	1284.9	1278.7	1283.7	1281.2	1297.3	1289.9
12.5°	1263.8	1256.4	1262.6	1263.8	1272.5	1266.3	1272.5	1270.0	1286.2	1278.7
15°	1243.9	1240.2	1246.4	1248.9	1257.6	1252.6	1258.8	1256.4	1273.7	1263.8
17.5°	1224.1	1221.6	1227.8	1230.3	1240.2	1234.0	1240.2	1237.7	1255.1	1245.2
20°	1199.3	1198.0	1204.2	1207.9	1216.6	1210.4	1217.9	1215.4	1234.0	1224.1
22.5°	1173.2	1173.2	1178.2	1181.9	1190.6	1185.6	1193.0	1191.8	1210.4	1200.5
25°	1144.6	1145.9	1150.8	1155.8	1165.7	1162.0	1168.2	1168.2	1185.6	1173.2
27.5°	1112.4	1118.6	1122.3	1128.5	1137.2	1133.5	1139.7	1140.9	1158.3	1145.9
30°	1078.8	1087.5	1091.2	1098.7	1106.1	1106.1	1112.4	1114.8	1132.2	1119.8
32.5°	1044.1	1054.0	1059.0	1068.9	1078.8	1078.8	1087.5	1091.2	1108.6	1097.5
35°	1009.3	1023.0	1029.2	1041.6	1051.5	1052.8	1061.5	1066.4	1083.8	1072.6
37.5°	975.8	993.2	999.4	1014.3	1023.0	1025.5	1035.4	1041.6	1057.7	1047.8
40°	941.0	962.1	969.6	985.7	993.2	998.1	1008.1	1015.5	1030.4	1021.7
42.5°	907.5	931.1	938.5	955.9	964.6	969.6	979.5	989.4	1004.3	995.7
45°	874.0	900.1	908.8	927.4	934.8	942.3	953.4	962.1	975.8	968.3
47.5°	841.7	869.0	877.7	897.6	906.3	915.0	924.9	937.3	949.7	942.3
50°	808.2	836.7	847.9	869.0	876.5	886.4	898.8	910.0	922.4	916.2
52.5°	775.9	805.7	816.9	839.2	847.9	857.9	870.3	882.7	893.9	888.9
55°	741.2	773.4	785.8	809.4	818.1	828.1	841.7	855.4	865.3	861.6
57.5°	708.9	742.4	754.8	780.9	788.3	800.7	814.4	829.3	838.0	834.3
60°	676.6	710.1	725.0	751.1	759.8	772.2	785.8	802.0	809.4	807.0
62.5°	644.3	679.1	695.2	722.5	730.0	743.6	759.8	773.4	780.9	779.6
65°	614.5	648.0	666.7	694.0	701.4	716.3	731.2	746.1	753.6	753.6
67.5°	583.5	619.5	638.1	666.7	672.9	689.0	705.2	720.1	726.3	726.3
70°	554.9	589.7	610.8	639.4	645.6	660.5	677.8	694.0	698.9	700.2
72.5°	526.4	561.1	583.5	613.3	619.5	634.4	650.5	667.9	671.6	672.9
75°	499.1	533.8	556.2	586.0	592.2	607.1	624.5	640.6	645.6	646.8
77.5°	471.8	506.5	531.3	559.9	566.1	581.0	598.4	614.5	618.3	620.7
80°	446.9	480.4	504.0	535.1	541.3	556.2	572.3	588.5	590.9	594.7
82.5°	422.1	455.6	480.4	510.2	516.4	531.3	547.5	563.6	566.1	571.1
85°	398.5	432.0	456.9	485.4	492.9	506.5	523.9	538.8	541.3	545.0
87.5°	377.4	408.4	434.5	461.8	469.3	482.9	500.3	515.2	516.4	521.4
90°	355.1	386.1	412.2	439.5	446.9	459.3	476.7	491.6	494.1	497.8
92.5°	336.4	365.0	392.3	418.4	424.6	438.2	454.4	469.3	471.8	475.5
95°	316.6	345.1	372.4	397.3	403.5	417.1	432.0	446.9	449.4	453.1
97.5°	299.2	326.5	352.6	377.4	383.6	396.0	412.2	425.8	428.3	433.3
100°	283.1	309.1	336.4	358.8	365.0	377.4	392.3	406.0	408.4	413.4
102.5°	268.2	293.0	319.1	340.2	347.6	358.8	373.7	386.1	388.6	392.3
105°	254.5	278.1	302.9	322.8	330.2	341.4	355.1	367.5	370.0	373.7
107.5°	240.8	263.2	286.8	306.6	312.8	322.8	336.4	348.9	351.3	356.3
110°	228.4	250.8	273.1	291.7	299.2	306.6	320.3	331.5	334.0	337.7



TEST NUMBER: P895163
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	217.3	237.1	259.5	276.8	283.1	291.7	302.9	314.1	316.6	321.5
115°	207.3	225.9	248.3	264.4	269.4	276.8	289.3	299.2	301.7	305.4
117.5°	198.6	214.8	234.6	250.8	257.0	263.2	274.4	283.1	286.8	289.3
120°	191.2	206.1	223.5	238.4	245.8	250.8	260.7	269.4	273.1	275.6
122.5°	183.7	197.4	213.5	227.2	233.4	237.1	248.3	255.7	259.5	263.2
125°	177.5	189.9	204.8	216.0	222.2	225.9	235.9	243.3	247.1	249.5
127.5°	171.3	182.5	197.4	206.1	212.3	214.8	223.5	230.9	234.6	235.9
130°	165.1	176.3	188.7	197.4	202.4	206.1	213.5	218.5	222.2	223.5
132.5°	160.1	170.1	181.3	189.9	194.9	196.2	203.6	208.6	212.3	213.5
135°	156.4	163.9	175.0	182.5	186.2	188.7	194.9	198.6	202.4	203.6
137.5°	151.5	158.9	168.8	173.8	178.8	180.0	186.2	189.9	193.7	194.9
140°	147.7	153.9	162.6	167.6	172.6	172.6	177.5	181.3	185.0	185.0
142.5°	144.0	150.2	157.7	162.6	166.4	166.4	171.3	173.8	177.5	177.5
145°	139.0	145.3	152.7	156.4	160.1	160.1	163.9	166.4	170.1	170.1
147.5°	134.1	140.3	147.7	150.2	153.9	153.9	157.7	160.1	162.6	162.6
150°	127.9	132.8	141.5	145.3	149.0	149.0	151.5	153.9	156.4	156.4
152.5°	122.9	126.6	134.1	139.0	142.8	142.8	145.3	147.7	150.2	150.2
155°	116.7	120.4	126.6	132.8	136.6	137.8	140.3	141.5	144.0	144.0
157.5°	111.7	115.5	120.4	125.4	129.1	131.6	135.3	136.6	137.8	137.8
160°	105.5	108.0	113.0	117.9	121.7	124.1	130.4	131.6	132.8	132.8
162.5°	103.0	103.0	105.5	109.2	113.0	114.2	120.4	125.4	127.9	126.6
165°	104.3	103.0	103.0	104.3	106.8	108.0	111.7	119.2	121.7	120.4
167.5°	106.8	104.3	103.0	103.0	105.5	105.5	109.2	115.5	122.9	120.4
170°	106.8	103.0	100.6	100.6	101.8	101.8	104.3	108.0	115.5	116.7
172.5°	105.5	103.0	99.3	94.4	95.6	94.4	93.1	95.6	96.8	109.2
175°	106.8	103.0	99.3	93.1	90.6	86.9	80.7	75.7	74.5	60.8
177.5°	105.5	101.8	96.8	91.9	89.4	84.4	77.0	68.3	63.3	55.9
180°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6



TEST NUMBER: P895163
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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	12.28	13.59	12.92	14.26	15.03	15.90	17.21	16.54	17.88	18.65
	3H	13.63	14.83	14.28	15.50	16.30	18.86	20.06	19.51	20.73	21.53
	4H	14.03	15.17	14.70	15.86	16.67	20.36	21.50	21.04	22.19	23.00
	6H	14.25	15.31	14.93	16.00	16.83	21.97	23.04	22.66	23.73	24.56
	8H	14.28	15.30	14.98	16.01	16.85	22.83	23.84	23.52	24.56	25.39
	12H	14.28	15.26	14.99	15.97	16.83	23.77	24.75	24.47	25.46	26.32
4H	2H	13.44	14.58	14.11	15.26	16.08	16.22	17.36	16.89	18.04	18.86
	3H	15.08	16.06	15.77	16.78	17.61	19.40	20.38	20.09	21.10	21.94
	4H	15.65	16.55	16.35	17.27	18.13	21.08	21.98	21.79	22.71	23.57
	6H	15.99	16.78	16.71	17.53	18.40	22.90	23.70	23.62	24.45	25.32
	8H	16.06	16.81	16.79	17.56	18.44	23.88	24.63	24.60	25.37	26.26
	12H	16.09	16.77	16.83	17.54	18.43	24.96	25.65	25.71	26.42	27.31
8H	4H	16.75	17.50	17.48	18.25	19.13	21.25	22.00	21.98	22.75	23.63
	6H	17.36	18.00	18.12	18.79	19.67	23.25	23.89	24.00	24.68	25.56
	8H	17.56	18.14	18.32	18.92	19.82	24.37	24.95	25.13	25.73	26.63
	12H	17.67	18.19	18.44	18.97	19.92	25.64	26.16	26.41	26.94	27.90
12H	4H	17.12	17.80	17.87	18.57	19.46	21.25	21.93	21.99	22.70	23.59
	6H	17.90	18.48	18.66	19.26	20.16	23.28	23.86	24.04	24.64	25.54
	8H	18.22	18.74	18.99	19.52	20.48	24.46	24.98	25.23	25.76	26.71