

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: P895039

Luminaire Tested: 8TMB-4SL-RND-UNV-L840

Issue Date: 11/11/2024

**Test Information**

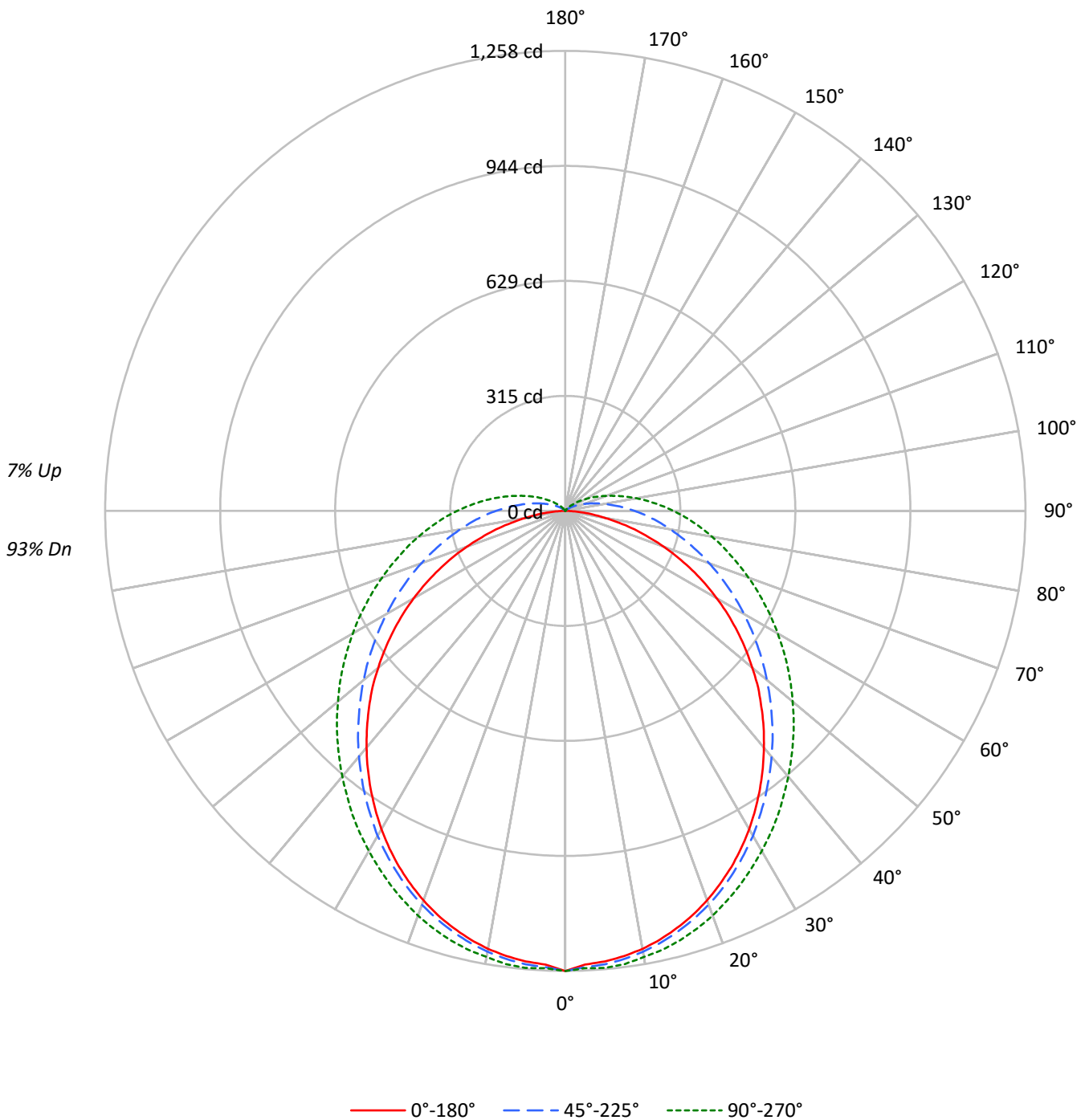
Test Method: LM-79-2019  
Report Number: P895039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-4SL-RND-UNV-L840  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4166.0 lumens  
Efficiency: N/A  
Efficacy: 150.9 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): 27.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P895039  
CATALOG NUMBER: 8TMB-4SL-RND-UNV-L840

### 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	43
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24	24	24	24	23
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	22	22	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4465	4465	4465
5°	4405	4433	4468
10°	4381	4410	4463
15°	4337	4373	4463
20°	4280	4328	4447
25°	4206	4268	4422
30°	4119	4204	4401
35°	4018	4129	4393
40°	3913	4064	4392
45°	3805	4007	4422
50°	3685	3973	4479
55°	3551	3965	4587
60°	3396	4004	4759
65°	3208	4109	5043
70°	2972	4342	5526
75°	2687	4832	6412
80°	2274	5956	8330
85°	1844	9701	14273

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 26274 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.0	2.9
10°-20°	339.1	8.1
20°-30°	507.7	12.2
30°-40°	605.4	14.5
40°-50°	627.9	15.1
50°-60°	582.5	14.0
60°-70°	486.0	11.7
70°-80°	362.3	8.7
80°-90°	241.2	5.8
90°-100°	146.9	3.5
100°-110°	82.0	2.0
110°-120°	41.0	1.0
120°-130°	17.1	0.4
130°-140°	5.4	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°	965.8	23.2
0°-40°	1571.3	37.7
0°-60°	2781.7	66.8
0°-90°	3871.2	92.9
90°-120°	269.8	6.5
90°-150°	293.7	7.1
90°-180°	295.0	7.1
0°-180°	4166.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1237	1265	1245	1252	1254	117
15°	1181	1211	1190	1212	1215	333
25°	1074	1103	1090	1121	1129	495
35°	928	952	953	1000	1014	580
45°	758	778	799	862	881	585
55°	574	594	641	716	742	513
65°	382	413	489	572	601	378
75°	196	250	352	438	468	207
85°	45	124	238	320	351	51
90°	2	82	189	267	295	3
95°	0	50	146	219	244	0
105°	0	16	80	135	156	0
115°	1	4	37	76	91	1
125°	1	1	15	36	45	1
135°	1	1	4	13	17	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	



TEST NUMBER: P895039  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4
2.5°	1241.7	1243.7	1261.4	1260.4	1257.5	1269.3	1272.2	1262.4	1246.6	1262.4	1248.6
5°	1236.8	1238.7	1256.5	1255.5	1252.5	1265.3	1266.3	1257.5	1241.7	1257.5	1244.7
7.5°	1227.9	1229.9	1247.6	1246.6	1244.7	1257.5	1256.5	1249.6	1232.8	1249.6	1235.8
10°	1216.1	1217.1	1235.8	1233.8	1232.8	1245.6	1242.7	1236.8	1220.0	1236.8	1224.0
12.5°	1200.3	1201.3	1220.0	1218.1	1218.1	1229.9	1225.9	1221.0	1204.3	1220.0	1209.2
15°	1180.6	1181.6	1199.4	1198.4	1198.4	1211.2	1205.3	1201.3	1185.6	1202.3	1190.5
17.5°	1159.0	1158.0	1176.7	1174.7	1176.7	1188.5	1180.6	1178.7	1163.9	1179.7	1169.8
20°	1133.4	1133.4	1150.1	1149.1	1152.1	1162.9	1153.1	1154.1	1139.3	1156.0	1146.2
22.5°	1104.8	1103.8	1120.6	1120.6	1123.5	1134.4	1123.5	1126.5	1111.7	1127.5	1119.6
25°	1074.3	1072.3	1089.1	1089.1	1094.0	1102.9	1091.0	1095.0	1081.2	1096.9	1090.1
27.5°	1040.8	1037.9	1054.6	1055.6	1059.5	1068.4	1055.6	1061.5	1048.7	1063.5	1058.5
30°	1005.4	1002.4	1019.2	1020.1	1025.1	1032.0	1019.2	1027.0	1015.2	1030.0	1026.1
32.5°	967.0	965.0	980.8	982.7	987.6	992.6	980.8	988.6	978.8	993.6	989.6
35°	927.6	925.6	940.4	943.3	948.3	952.2	939.4	950.2	941.4	955.2	953.2
37.5°	887.2	884.3	900.0	902.0	907.9	909.9	898.0	910.8	903.0	916.8	915.8
40°	844.9	841.9	857.7	859.6	865.5	865.5	855.7	869.5	863.6	876.4	877.4
42.5°	802.5	799.6	813.4	817.3	822.2	822.2	812.4	827.1	823.2	836.0	839.0
45°	758.2	755.3	768.1	772.0	777.9	777.9	768.1	784.8	781.8	794.6	798.6
47.5°	714.9	710.9	722.8	726.7	732.6	731.6	723.8	740.5	739.5	752.3	759.2
50°	667.6	664.7	676.5	680.4	687.3	685.3	679.4	697.2	697.2	710.0	719.8
52.5°	621.3	618.4	630.2	634.1	640.1	640.1	634.1	652.9	655.8	668.6	680.4
55°	574.1	570.1	582.0	585.9	592.8	593.8	588.8	607.6	613.5	628.2	641.0
57.5°	526.8	524.8	534.7	538.6	547.5	547.5	544.5	564.2	572.1	587.9	602.6
60°	478.6	476.6	485.5	490.4	500.2	502.2	500.2	520.9	531.7	547.5	564.2
62.5°	430.3	428.3	437.2	444.1	454.9	456.9	457.9	479.5	491.4	508.1	526.8
65°	382.1	380.1	389.0	396.8	409.6	412.6	415.5	438.2	452.0	469.7	489.4
67.5°	333.8	332.8	341.7	351.5	365.3	369.3	374.2	397.8	413.6	432.3	453.9
70°	286.5	285.6	294.4	306.2	323.0	327.9	333.8	357.4	377.1	396.8	418.5
72.5°	239.3	240.3	250.1	263.9	282.6	287.5	295.4	320.0	341.7	362.4	385.0
75°	196.0	196.0	206.8	222.5	243.2	250.1	259.0	284.6	307.2	328.9	352.5
77.5°	151.6	151.6	164.4	184.1	206.8	213.7	224.5	251.1	275.7	297.4	321.0
80°	111.3	113.2	128.0	147.7	171.3	180.2	193.0	219.6	246.2	267.8	291.5
82.5°	75.8	78.8	94.5	117.2	140.8	149.7	162.5	191.0	217.6	240.3	264.9
85°	45.3	50.2	67.0	89.6	114.2	124.1	137.9	164.4	191.0	213.7	238.3
87.5°	20.7	27.6	45.3	67.9	91.6	102.4	114.2	139.8	166.4	189.1	214.7
90°	2.0	11.8	29.5	49.2	71.9	81.7	93.5	118.2	143.8	164.4	189.1
92.5°	0.0	4.9	17.7	35.4	55.1	65.0	75.8	99.5	122.1	142.8	166.4
95°	0.0	2.0	9.8	24.6	41.4	50.2	60.1	81.7	104.4	124.1	145.7
97.5°	0.0	1.0	5.9	16.7	30.5	38.4	47.3	67.0	87.6	106.3	126.0
100°	0.0	1.0	3.0	10.8	22.6	28.6	37.4	54.2	72.9	89.6	109.3
102.5°	0.0	0.0	2.0	6.9	16.7	21.7	28.6	43.3	60.1	75.8	93.5
105°	0.0	0.0	1.0	4.9	11.8	15.8	21.7	34.5	49.2	63.0	79.8
107.5°	0.0	0.0	1.0	3.0	7.9	11.8	16.7	26.6	39.4	52.2	67.0
110°	1.0	1.0	1.0	2.0	5.9	8.9	11.8	20.7	32.5	43.3	56.1



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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	3.9	5.9	8.9	15.8	25.6	34.5	46.3
115°	1.0	1.0	1.0	1.0	3.0	3.9	5.9	11.8	19.7	27.6	37.4
117.5°	1.0	1.0	1.0	1.0	2.0	3.0	3.9	8.9	14.8	21.7	30.5
120°	1.0	1.0	1.0	1.0	1.0	2.0	3.0	5.9	11.8	16.7	24.6
122.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	4.9	8.9	12.8	18.7
125°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	5.9	9.8	14.8
127.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	3.9	6.9	10.8
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.9	7.9
132.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	3.9	5.9
135°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	3.9
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
145°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0
170°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
172.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0
175°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
177.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4
2.5°	1252.5	1255.5	1258.4	1250.6	1255.5	1264.3	1267.3	1255.5	1259.4	1251.5
5°	1248.6	1250.6	1254.5	1244.7	1251.5	1259.4	1264.3	1254.5	1260.4	1254.5
7.5°	1240.7	1242.7	1247.6	1237.8	1246.6	1253.5	1259.4	1249.6	1255.5	1249.6
10°	1228.9	1231.9	1238.7	1226.9	1237.8	1243.7	1249.6	1238.7	1244.7	1238.7
12.5°	1214.1	1219.1	1225.0	1214.1	1225.0	1229.9	1237.8	1226.9	1233.8	1228.9
15°	1196.4	1201.3	1209.2	1198.4	1212.2	1216.1	1224.0	1213.1	1220.0	1215.1
17.5°	1175.7	1181.6	1191.5	1178.7	1194.4	1197.4	1205.3	1195.4	1202.3	1197.4
20°	1152.1	1158.0	1167.8	1156.0	1171.8	1173.8	1182.6	1173.8	1180.6	1177.7
22.5°	1124.5	1131.4	1141.3	1130.4	1147.2	1147.2	1158.0	1149.1	1157.0	1154.1
25°	1096.0	1103.8	1114.7	1102.9	1120.6	1120.6	1132.4	1123.5	1131.4	1129.4
27.5°	1065.4	1074.3	1087.1	1075.3	1093.0	1092.0	1103.8	1096.0	1104.8	1101.9
30°	1032.9	1042.8	1055.6	1045.7	1064.5	1062.5	1074.3	1067.4	1075.3	1074.3
32.5°	997.5	1008.3	1024.1	1013.3	1032.0	1030.0	1044.8	1036.9	1046.7	1044.8
35°	962.0	973.9	989.6	979.8	1000.4	997.5	1012.3	1005.4	1015.2	1014.2
37.5°	925.6	938.4	954.2	946.3	966.0	963.0	978.8	972.9	983.7	980.8
40°	888.2	901.0	917.7	910.8	931.5	927.6	944.3	939.4	950.2	948.3
42.5°	850.8	864.6	881.3	877.4	897.1	893.1	909.9	905.9	916.8	914.8
45°	812.4	827.1	844.9	840.9	861.6	857.7	874.4	871.5	882.3	881.3
47.5°	774.0	789.7	807.4	805.5	825.2	821.2	839.0	836.0	846.8	846.8
50°	734.6	752.3	770.0	769.0	788.7	784.8	800.6	800.6	812.4	811.4
52.5°	695.2	713.9	732.6	732.6	752.3	748.4	766.1	765.1	776.9	776.9
55°	657.8	674.5	693.2	697.2	715.9	710.0	728.7	730.6	740.5	741.5
57.5°	620.4	638.1	656.8	661.7	679.4	675.5	693.2	695.2	705.0	706.0
60°	582.9	599.7	618.4	625.3	643.0	639.1	656.8	658.8	669.6	670.6
62.5°	545.5	562.3	582.9	589.8	606.6	603.6	622.3	624.3	634.1	636.1
65°	509.1	526.8	546.5	556.4	572.1	568.2	586.9	588.8	599.7	600.7
67.5°	473.6	491.4	511.1	521.9	536.7	534.7	552.4	556.4	565.2	567.2
70°	439.2	456.9	477.6	488.4	503.2	502.2	518.9	521.9	531.7	532.7
72.5°	405.7	423.4	444.1	456.9	469.7	468.7	485.5	489.4	499.2	500.2
75°	373.2	391.9	411.6	425.4	438.2	437.2	453.9	457.9	466.7	467.7
77.5°	342.7	361.4	382.1	395.8	406.7	407.7	422.4	426.4	435.2	438.2
80°	314.1	331.8	351.5	366.3	376.2	378.1	391.9	396.8	403.7	407.7
82.5°	286.5	304.3	324.0	337.8	347.6	349.6	362.4	368.3	375.2	378.1
85°	260.0	277.7	296.4	311.2	320.0	321.0	333.8	339.7	345.6	350.6
87.5°	234.4	252.1	269.8	285.6	293.4	295.4	307.2	313.1	318.1	323.0
90°	208.8	226.5	244.2	259.0	266.9	267.8	280.6	286.5	291.5	295.4
92.5°	185.1	202.8	220.6	235.3	242.2	244.2	255.0	261.9	265.9	269.8
95°	162.5	180.2	196.0	211.7	218.6	221.6	231.4	237.3	242.2	244.2
97.5°	142.8	158.5	173.3	189.1	195.0	197.9	207.8	214.7	218.6	220.6
100°	124.1	138.8	152.6	167.4	173.3	176.3	185.1	191.0	195.0	197.9
102.5°	107.3	121.1	133.9	147.7	153.6	155.6	163.5	169.4	173.3	176.3
105°	92.6	105.4	117.2	130.0	134.9	137.9	144.8	149.7	153.6	155.6
107.5°	78.8	91.6	101.4	113.2	118.2	120.1	127.0	132.9	135.9	136.9
110°	67.0	77.8	87.6	97.5	103.4	105.4	111.3	116.2	119.1	120.1





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	56.1	66.0	74.8	83.7	88.6	90.6	96.5	101.4	103.4	104.4
115°	46.3	56.1	63.0	71.9	75.8	77.8	82.7	87.6	88.6	90.6
117.5°	37.4	46.3	53.2	60.1	64.0	66.0	69.9	73.9	75.8	76.8
120°	30.5	37.4	43.3	50.2	53.2	55.1	59.1	63.0	64.0	65.0
122.5°	24.6	30.5	35.4	41.4	44.3	46.3	49.2	52.2	53.2	54.2
125°	18.7	24.6	28.6	33.5	36.4	37.4	40.4	43.3	44.3	45.3
127.5°	14.8	18.7	22.6	26.6	28.6	29.5	32.5	34.5	35.4	36.4
130°	10.8	13.8	16.7	20.7	22.6	23.6	25.6	27.6	28.6	28.6
132.5°	7.9	10.8	12.8	15.8	16.7	17.7	19.7	21.7	21.7	22.6
135°	4.9	6.9	8.9	10.8	12.8	12.8	14.8	15.8	16.7	16.7
137.5°	3.9	4.9	5.9	7.9	8.9	9.8	9.8	11.8	11.8	11.8
140°	3.0	3.9	3.9	4.9	5.9	6.9	6.9	7.9	7.9	7.9
142.5°	2.0	3.0	3.0	3.9	3.9	4.9	4.9	4.9	5.9	5.9
145°	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.9	3.9	3.9
147.5°	1.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0
150°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
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	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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P895039  
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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	15.49	17.02	15.96	17.48	17.97	17.06	18.59	17.53	19.05	19.54
	3H	17.16	18.57	17.65	19.03	19.56	19.68	21.09	20.17	21.55	22.08
	4H	17.76	19.09	18.26	19.58	20.12	20.99	22.32	21.50	22.81	23.35
	6H	18.16	19.40	18.68	19.90	20.45	22.40	23.64	22.92	24.14	24.69
	8H	18.28	19.46	18.80	19.99	20.55	23.15	24.34	23.68	24.86	25.42
	12H	18.35	19.49	18.89	20.01	20.60	24.00	25.14	24.53	25.65	26.25
4H	2H	16.41	17.74	16.92	18.23	18.77	17.61	18.94	18.11	19.42	19.96
	3H	18.39	19.53	18.91	20.06	20.62	20.53	21.66	21.04	22.19	22.75
	4H	19.17	20.21	19.71	20.75	21.34	22.05	23.09	22.59	23.63	24.22
	6H	19.75	20.67	20.30	21.23	21.84	23.69	24.61	24.25	25.18	25.79
	8H	19.93	20.80	20.49	21.36	21.98	24.57	25.44	25.14	26.00	26.63
	12H	20.06	20.84	20.64	21.44	22.06	25.58	26.36	26.16	26.96	27.58
8H	4H	20.05	20.91	20.61	21.48	22.10	22.41	23.28	22.97	23.84	24.46
	6H	20.93	21.67	21.52	22.27	22.90	24.31	25.05	24.91	25.65	26.28
	8H	21.28	21.94	21.88	22.56	23.20	25.39	26.06	26.00	26.68	27.32
	12H	21.55	22.14	22.16	22.75	23.45	26.66	27.25	27.27	27.86	28.57
12H	4H	20.32	21.11	20.91	21.71	22.33	22.45	23.24	23.04	23.83	24.46
	6H	21.38	22.04	21.98	22.66	23.30	24.42	25.09	25.03	25.70	26.34
	8H	21.90	22.49	22.50	23.10	23.80	25.62	26.21	26.23	26.82	27.52