

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: P895037

Luminaire Tested: 8TMB-4SL-RND-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895037
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-L830
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

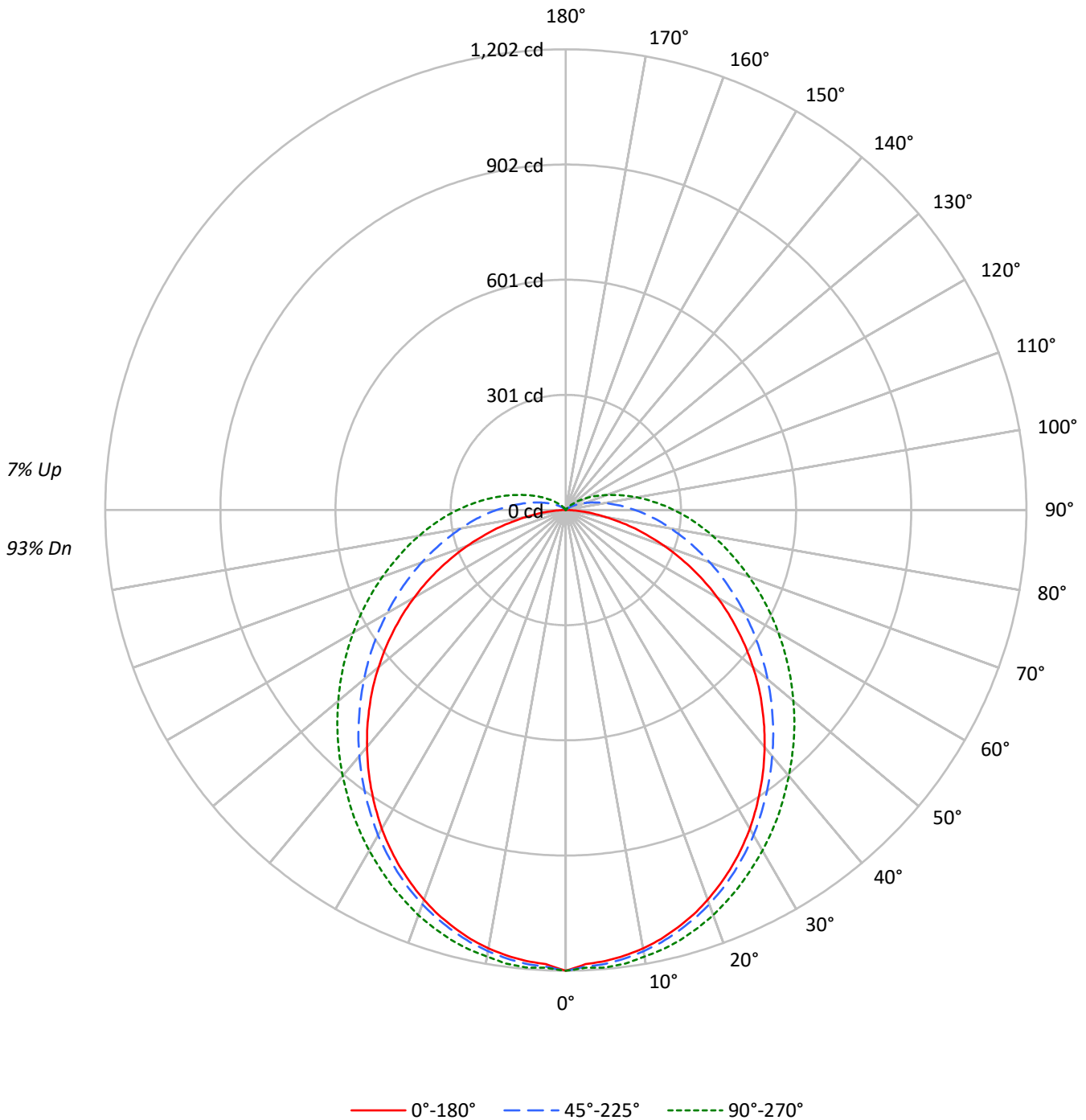
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3979.0 lumens
Efficiency: N/A
Efficacy: 144.2 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_{in}): 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

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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	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°	4265	4265	4265
5°	4207	4234	4268
10°	4185	4212	4263
15°	4142	4177	4263
20°	4087	4133	4247
25°	4017	4076	4223
30°	3934	4015	4204
35°	3837	3943	4196
40°	3737	3881	4195
45°	3634	3827	4223
50°	3520	3795	4278
55°	3392	3788	4381
60°	3244	3824	4545
65°	3064	3924	4817
70°	2839	4147	5278
75°	2566	4616	6124
80°	2172	5689	7957
85°	1763	9266	13630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 25094 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	2.9
10°-20°	323.9	8.1
20°-30°	485.0	12.2
30°-40°	578.2	14.5
40°-50°	599.7	15.1
50°-60°	556.4	14.0
60°-70°	464.1	11.7
70°-80°	346.1	8.7
80°-90°	230.4	5.8
90°-100°	140.3	3.5
100°-110°	78.3	2.0
110°-120°	39.1	1.0
120°-130°	16.3	0.4
130°-140°	5.1	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°	922.5	23.2
0°-40°	1500.7	37.7
0°-60°	2656.8	66.8
0°-90°	3697.4	92.9
90°-120°	257.7	6.5
90°-150°	280.5	7.0
90°-180°	282.0	7.1
0°-180°	3979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1181	1208	1189	1195	1198	112
15°	1128	1157	1137	1158	1161	318
25°	1026	1053	1041	1070	1079	472
35°	886	910	910	956	969	554
45°	724	743	763	823	842	559
55°	548	567	612	684	708	490
65°	365	394	467	546	574	361
75°	187	239	337	418	447	198
85°	43	118	228	306	335	49
90°	2	78	181	255	282	3
95°	0	48	139	209	233	0
105°	0	15	76	129	149	0
115°	1	4	36	72	86	1
125°	1	1	14	35	43	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	



TEST NUMBER: P895037
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0
2.5°	1186.0	1187.8	1204.8	1203.8	1201.0	1212.3	1215.1	1205.7	1190.7	1205.7	1192.5
5°	1181.3	1183.1	1200.1	1199.1	1196.3	1208.5	1209.5	1201.0	1186.0	1201.0	1188.8
7.5°	1172.8	1174.7	1191.6	1190.7	1188.8	1201.0	1200.1	1193.5	1177.5	1193.5	1180.3
10°	1161.5	1162.5	1180.3	1178.4	1177.5	1189.7	1186.9	1181.3	1165.3	1181.3	1169.0
12.5°	1146.5	1147.4	1165.3	1163.4	1163.4	1174.7	1170.9	1166.2	1150.2	1165.3	1154.9
15°	1127.7	1128.6	1145.5	1144.6	1144.6	1156.8	1151.2	1147.4	1132.4	1148.3	1137.1
17.5°	1107.0	1106.0	1123.9	1122.0	1123.9	1135.2	1127.7	1125.8	1111.7	1126.7	1117.3
20°	1082.5	1082.5	1098.5	1097.6	1100.4	1110.7	1101.3	1102.3	1088.2	1104.1	1094.7
22.5°	1055.2	1054.3	1070.3	1070.3	1073.1	1083.4	1073.1	1075.9	1061.8	1076.9	1069.3
25°	1026.1	1024.2	1040.2	1040.2	1044.9	1053.4	1042.1	1045.8	1032.7	1047.7	1041.1
27.5°	994.1	991.3	1007.3	1008.2	1012.0	1020.4	1008.2	1013.9	1001.6	1015.7	1011.0
30°	960.2	957.4	973.4	974.4	979.1	985.6	973.4	980.9	969.6	983.8	980.0
32.5°	923.6	921.7	936.7	938.6	943.3	948.0	936.7	944.3	934.9	949.0	945.2
35°	885.9	884.1	898.2	901.0	905.7	909.5	897.2	907.6	899.1	912.3	910.4
37.5°	847.4	844.6	859.6	861.5	867.1	869.0	857.7	870.0	862.4	875.6	874.7
40°	806.9	804.1	819.2	821.1	826.7	826.7	817.3	830.5	824.8	837.0	838.0
42.5°	766.5	763.7	776.8	780.6	785.3	785.3	775.9	790.0	786.3	798.5	801.3
45°	724.2	721.4	733.6	737.3	743.0	743.0	733.6	749.6	746.8	759.0	762.7
47.5°	682.8	679.0	690.3	694.1	699.7	698.8	691.3	707.3	706.3	718.5	725.1
50°	637.7	634.8	646.1	649.9	656.5	654.6	648.9	665.9	665.9	678.1	687.5
52.5°	593.5	590.6	601.9	605.7	611.3	611.3	605.7	623.5	626.4	638.6	649.9
55°	548.3	544.5	555.8	559.6	566.2	567.1	562.4	580.3	585.9	600.0	612.3
57.5°	503.2	501.3	510.7	514.5	522.9	522.9	520.1	538.9	546.4	561.5	575.6
60°	457.1	455.2	463.7	468.4	477.8	479.7	477.8	497.5	507.9	522.9	538.9
62.5°	411.0	409.1	417.6	424.2	434.5	436.4	437.3	458.0	469.3	485.3	503.2
65°	364.9	363.0	371.5	379.0	391.2	394.1	396.9	418.5	431.7	448.6	467.4
67.5°	318.8	317.9	326.4	335.8	348.9	352.7	357.4	380.0	395.0	412.9	433.6
70°	273.7	272.7	281.2	292.5	308.5	313.2	318.8	341.4	360.2	379.0	399.7
72.5°	228.5	229.5	238.9	252.1	269.9	274.6	282.1	305.7	326.4	346.1	367.7
75°	187.2	187.2	197.5	212.6	232.3	238.9	247.4	271.8	293.4	314.1	336.7
77.5°	144.8	144.8	157.1	175.9	197.5	204.1	214.4	239.8	263.3	284.0	306.6
80°	106.3	108.2	122.3	141.1	163.6	172.1	184.3	209.7	235.1	255.8	278.4
82.5°	72.4	75.2	90.3	111.9	134.5	143.0	155.2	182.5	207.8	229.5	253.0
85°	43.3	48.0	64.0	85.6	109.1	118.5	131.7	157.1	182.5	204.1	227.6
87.5°	19.8	26.3	43.3	64.9	87.5	97.8	109.1	133.6	158.9	180.6	205.0
90°	1.9	11.3	28.2	47.0	68.7	78.1	89.3	112.9	137.3	157.1	180.6
92.5°	0.0	4.7	16.9	33.9	52.7	62.1	72.4	95.0	116.6	136.4	158.9
95°	0.0	1.9	9.4	23.5	39.5	48.0	57.4	78.1	99.7	118.5	139.2
97.5°	0.0	0.9	5.6	16.0	29.2	36.7	45.1	64.0	83.7	101.6	120.4
100°	0.0	0.9	2.8	10.3	21.6	27.3	35.7	51.7	69.6	85.6	104.4
102.5°	0.0	0.0	1.9	6.6	16.0	20.7	27.3	41.4	57.4	72.4	89.3
105°	0.0	0.0	0.9	4.7	11.3	15.0	20.7	32.9	47.0	60.2	76.2
107.5°	0.0	0.0	0.9	2.8	7.5	11.3	16.0	25.4	37.6	49.8	64.0
110°	0.9	0.9	0.9	1.9	5.6	8.5	11.3	19.8	31.0	41.4	53.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.9	0.9	0.9	0.9	3.8	5.6	8.5	15.0	24.5	32.9	44.2
115°	0.9	0.9	0.9	0.9	2.8	3.8	5.6	11.3	18.8	26.3	35.7
117.5°	0.9	0.9	0.9	0.9	1.9	2.8	3.8	8.5	14.1	20.7	29.2
120°	0.9	0.9	0.9	0.9	0.9	1.9	2.8	5.6	11.3	16.0	23.5
122.5°	0.9	0.9	0.9	0.9	0.9	1.9	1.9	4.7	8.5	12.2	17.9
125°	0.9	0.9	0.9	0.9	0.9	0.9	1.9	2.8	5.6	9.4	14.1
127.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.9	2.8	3.8	6.6	10.3
130°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	2.8	4.7	7.5
132.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	2.8	3.8	5.6
135°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	2.8	3.8
137.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	2.8
140°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9
142.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9
145°	0.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
147.5°	0.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
150°	0.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
152.5°	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9
157.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9
165°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9
167.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9
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	0.9
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°	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0
2.5°	1196.3	1199.1	1202.0	1194.4	1199.1	1207.6	1210.4	1199.1	1202.9	1195.4
5°	1192.5	1194.4	1198.2	1188.8	1195.4	1202.9	1207.6	1198.2	1203.8	1198.2
7.5°	1185.0	1186.9	1191.6	1182.2	1190.7	1197.2	1202.9	1193.5	1199.1	1193.5
10°	1173.7	1176.6	1183.1	1171.9	1182.2	1187.8	1193.5	1183.1	1188.8	1183.1
12.5°	1159.6	1164.3	1170.0	1159.6	1170.0	1174.7	1182.2	1171.9	1178.4	1173.7
15°	1142.7	1147.4	1154.9	1144.6	1157.7	1161.5	1169.0	1158.7	1165.3	1160.6
17.5°	1123.0	1128.6	1138.0	1125.8	1140.8	1143.6	1151.2	1141.8	1148.3	1143.6
20°	1100.4	1106.0	1115.4	1104.1	1119.2	1121.1	1129.5	1121.1	1127.7	1124.8
22.5°	1074.0	1080.6	1090.0	1079.7	1095.7	1095.7	1106.0	1097.6	1105.1	1102.3
25°	1046.8	1054.3	1064.6	1053.4	1070.3	1070.3	1081.6	1073.1	1080.6	1078.7
27.5°	1017.6	1026.1	1038.3	1027.0	1043.9	1043.0	1054.3	1046.8	1055.2	1052.4
30°	986.6	996.0	1008.2	998.8	1016.7	1014.8	1026.1	1019.5	1027.0	1026.1
32.5°	952.7	963.1	978.1	967.8	985.6	983.8	997.9	990.3	999.7	997.9
35°	918.9	930.1	945.2	935.8	955.5	952.7	966.8	960.2	969.6	968.7
37.5°	884.1	896.3	911.3	903.8	922.6	919.8	934.9	929.2	939.6	936.7
40°	848.3	860.6	876.5	870.0	889.7	885.9	901.9	897.2	907.6	905.7
42.5°	812.6	825.8	841.7	838.0	856.8	853.0	869.0	865.3	875.6	873.7
45°	775.9	790.0	806.9	803.2	822.9	819.2	835.2	832.3	842.7	841.7
47.5°	739.2	754.3	771.2	769.3	788.1	784.4	801.3	798.5	808.8	808.8
50°	701.6	718.5	735.5	734.5	753.3	749.6	764.6	764.6	775.9	775.0
52.5°	664.0	681.9	699.7	699.7	718.5	714.8	731.7	730.8	742.1	742.1
55°	628.3	644.2	662.1	665.9	683.7	678.1	696.0	697.8	707.3	708.2
57.5°	592.5	609.4	627.3	632.0	648.9	645.2	662.1	664.0	673.4	674.3
60°	556.8	572.8	590.6	597.2	614.1	610.4	627.3	629.2	639.5	640.5
62.5°	521.0	537.0	556.8	563.4	579.3	576.5	594.4	596.3	605.7	607.6
65°	486.2	503.2	522.0	531.4	546.4	542.7	560.5	562.4	572.8	573.7
67.5°	452.4	469.3	488.1	498.5	512.6	510.7	527.6	531.4	539.8	541.7
70°	419.5	436.4	456.1	466.5	480.6	479.7	495.6	498.5	507.9	508.8
72.5°	387.5	404.4	424.2	436.4	448.6	447.7	463.7	467.4	476.8	477.8
75°	356.4	374.3	393.1	406.3	418.5	417.6	433.6	437.3	445.8	446.7
77.5°	327.3	345.2	364.9	378.1	388.4	389.4	403.5	407.2	415.7	418.5
80°	300.0	316.9	335.8	349.9	359.3	361.1	374.3	379.0	385.6	389.4
82.5°	273.7	290.6	309.4	322.6	332.0	333.9	346.1	351.7	358.3	361.1
85°	248.3	265.2	283.1	297.2	305.7	306.6	318.8	324.5	330.1	334.8
87.5°	223.8	240.8	257.7	272.7	280.3	282.1	293.4	299.1	303.8	308.5
90°	199.4	216.3	233.2	247.4	254.9	255.8	268.0	273.7	278.4	282.1
92.5°	176.8	193.7	210.7	224.8	231.4	233.2	243.6	250.2	253.9	257.7
95°	155.2	172.1	187.2	202.2	208.8	211.6	221.0	226.7	231.4	233.2
97.5°	136.4	151.4	165.5	180.6	186.2	189.0	198.4	205.0	208.8	210.7
100°	118.5	132.6	145.8	159.9	165.5	168.3	176.8	182.5	186.2	189.0
102.5°	102.5	115.7	127.9	141.1	146.7	148.6	156.1	161.8	165.5	168.3
105°	88.4	100.6	111.9	124.1	128.8	131.7	138.3	143.0	146.7	148.6
107.5°	75.2	87.5	96.9	108.2	112.9	114.7	121.3	127.0	129.8	130.7
110°	64.0	74.3	83.7	93.1	98.8	100.6	106.3	111.0	113.8	114.7



TEST NUMBER: P895037
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	53.6	63.0	71.5	79.9	84.6	86.5	92.2	96.9	98.8	99.7
115°	44.2	53.6	60.2	68.7	72.4	74.3	79.0	83.7	84.6	86.5
117.5°	35.7	44.2	50.8	57.4	61.1	63.0	66.8	70.5	72.4	73.4
120°	29.2	35.7	41.4	48.0	50.8	52.7	56.4	60.2	61.1	62.1
122.5°	23.5	29.2	33.9	39.5	42.3	44.2	47.0	49.8	50.8	51.7
125°	17.9	23.5	27.3	32.0	34.8	35.7	38.6	41.4	42.3	43.3
127.5°	14.1	17.9	21.6	25.4	27.3	28.2	31.0	32.9	33.9	34.8
130°	10.3	13.2	16.0	19.8	21.6	22.6	24.5	26.3	27.3	27.3
132.5°	7.5	10.3	12.2	15.0	16.0	16.9	18.8	20.7	20.7	21.6
135°	4.7	6.6	8.5	10.3	12.2	12.2	14.1	15.0	16.0	16.0
137.5°	3.8	4.7	5.6	7.5	8.5	9.4	9.4	11.3	11.3	11.3
140°	2.8	3.8	3.8	4.7	5.6	6.6	6.6	7.5	7.5	7.5
142.5°	1.9	2.8	2.8	3.8	3.8	4.7	4.7	4.7	5.6	5.6
145°	1.9	1.9	1.9	2.8	2.8	2.8	2.8	3.8	3.8	3.8
147.5°	0.9	0.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8
150°	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9	1.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
170°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
172.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
175°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
177.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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: P895037
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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	15.33	16.86	15.80	17.32	17.81	16.90	18.43	17.37	18.89	19.38
	3H	17.00	18.41	17.49	18.87	19.40	19.52	20.93	20.01	21.39	21.92
	4H	17.60	18.93	18.11	19.42	19.96	20.83	22.16	21.34	22.65	23.19
	6H	18.00	19.24	18.52	19.74	20.29	22.24	23.48	22.76	23.98	24.53
	8H	18.12	19.30	18.65	19.83	20.39	22.99	24.18	23.52	24.70	25.26
	12H	18.19	19.33	18.73	19.85	20.44	23.84	24.98	24.37	25.49	26.09
4H	2H	16.25	17.58	16.76	18.07	18.61	17.45	18.78	17.95	19.26	19.81
	3H	18.23	19.37	18.75	19.90	20.46	20.37	21.50	20.88	22.03	22.59
	4H	19.01	20.05	19.55	20.59	21.18	21.89	22.93	22.43	23.47	24.06
	6H	19.59	20.51	20.15	21.07	21.68	23.53	24.45	24.09	25.02	25.63
	8H	19.77	20.64	20.33	21.20	21.82	24.41	25.28	24.98	25.84	26.47
	12H	19.90	20.68	20.48	21.28	21.90	25.42	26.21	26.00	26.80	27.42
8H	4H	19.89	20.76	20.45	21.32	21.94	22.25	23.12	22.81	23.68	24.30
	6H	20.77	21.51	21.36	22.11	22.74	24.15	24.89	24.75	25.49	26.12
	8H	21.12	21.78	21.72	22.40	23.04	25.24	25.90	25.84	26.52	27.16
	12H	21.39	21.98	22.00	22.59	23.30	26.50	27.09	27.11	27.70	28.41
12H	4H	20.17	20.95	20.75	21.55	22.17	22.29	23.08	22.88	23.67	24.30
	6H	21.22	21.89	21.82	22.50	23.14	24.26	24.93	24.87	25.54	26.18
	8H	21.74	22.33	22.34	22.94	23.64	25.46	26.05	26.07	26.66	27.36