

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: P895038

Luminaire Tested: 8TMB-4SL-RND-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895038
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-L835
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

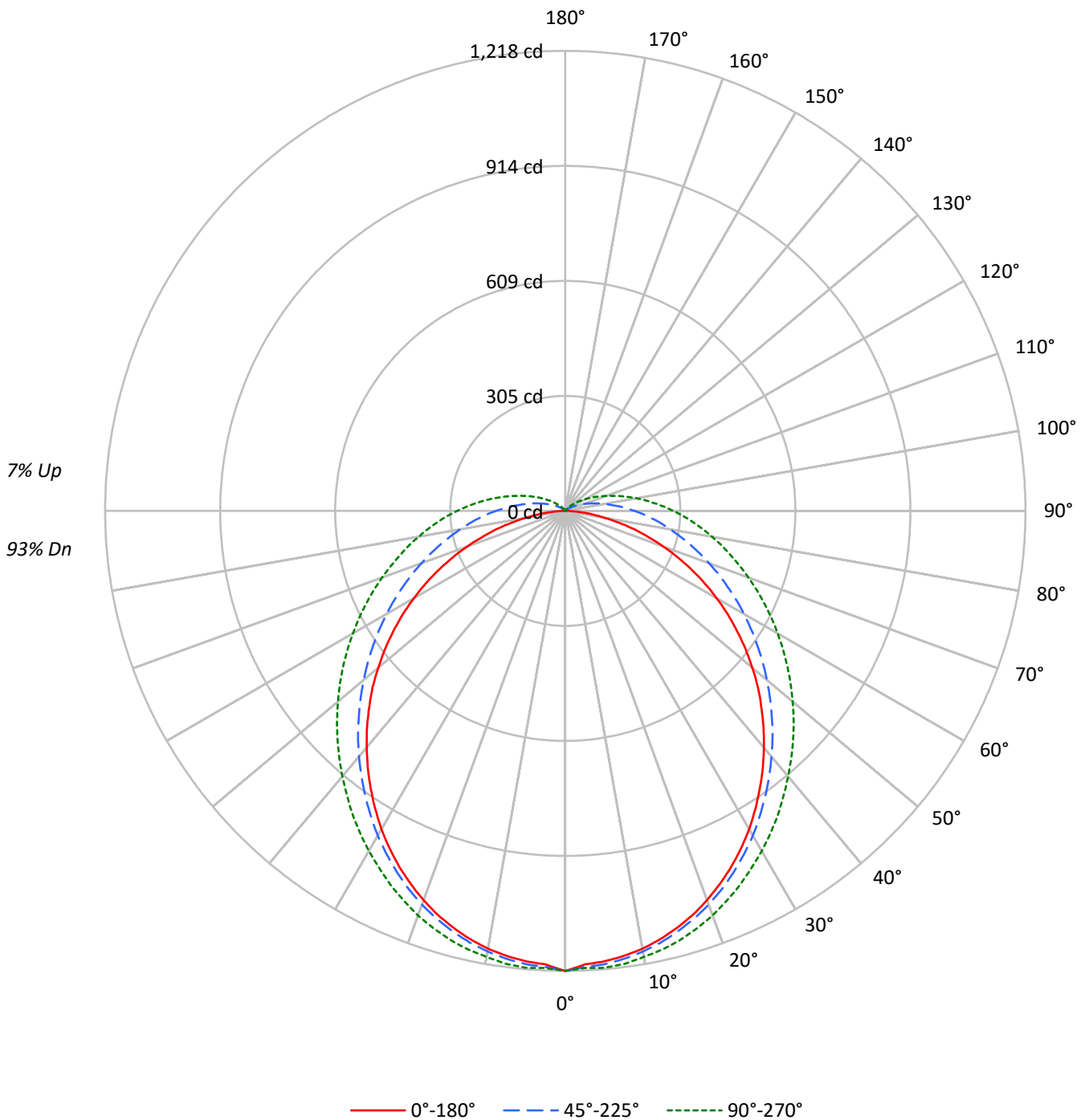
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4032.1 lumens
Efficiency: N/A
Efficacy: 146.1 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 (Ain): 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°	4322	4322	4322
5°	4263	4290	4324
10°	4241	4268	4319
15°	4197	4232	4320
20°	4142	4189	4304
25°	4070	4130	4279
30°	3986	4068	4260
35°	3888	3996	4252
40°	3787	3933	4251
45°	3682	3878	4280
50°	3566	3846	4335
55°	3437	3838	4439
60°	3287	3875	4605
65°	3105	3977	4880
70°	2877	4201	5349
75°	2601	4677	6206
80°	2201	5764	8063
85°	1783	9388	13813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 25428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	2.9
10°-20°	328.2	8.1
20°-30°	491.4	12.2
30°-40°	585.9	14.5
40°-50°	607.7	15.1
50°-60°	563.8	14.0
60°-70°	470.3	11.7
70°-80°	350.7	8.7
80°-90°	233.5	5.8
90°-100°	142.1	3.5
100°-110°	79.4	2.0
110°-120°	39.7	1.0
120°-130°	16.6	0.4
130°-140°	5.2	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°	934.8	23.2
0°-40°	1520.7	37.7
0°-60°	2692.2	66.8
0°-90°	3746.7	92.9
90°-120°	261.2	6.5
90°-150°	284.3	7.1
90°-180°	285.0	7.1
0°-180°	4032.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1197	1225	1205	1211	1214	114
15°	1143	1172	1152	1173	1176	322
25°	1040	1067	1055	1084	1093	479
35°	898	922	922	968	982	562
45°	734	753	773	834	853	566
55°	556	575	620	693	718	497
65°	370	399	474	554	581	366
75°	190	242	341	424	453	201
85°	44	120	231	310	339	49
90°	2	79	183	258	286	3
95°	0	49	141	212	236	0
105°	0	15	77	131	151	0
115°	1	4	36	73	88	1
125°	1	1	14	35	44	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: P895038

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0
2.5°	1201.8	1203.7	1220.8	1219.9	1217.0	1228.4	1231.3	1221.8	1206.5	1221.8	1208.4
5°	1197.0	1198.9	1216.1	1215.1	1212.2	1224.6	1225.6	1217.0	1201.8	1217.0	1204.6
7.5°	1188.4	1190.3	1207.5	1206.5	1204.6	1217.0	1216.1	1209.4	1193.2	1209.4	1196.0
10°	1177.0	1177.9	1196.0	1194.1	1193.2	1205.6	1202.7	1197.0	1180.8	1197.0	1184.6
12.5°	1161.7	1162.7	1180.8	1178.9	1178.9	1190.3	1186.5	1181.7	1165.5	1180.8	1170.3
15°	1142.7	1143.6	1160.8	1159.8	1159.8	1172.2	1166.5	1162.7	1147.4	1163.6	1152.2
17.5°	1121.7	1120.8	1138.9	1137.0	1138.9	1150.3	1142.7	1140.8	1126.5	1141.7	1132.2
20°	1096.9	1096.9	1113.1	1112.2	1115.0	1125.5	1116.0	1116.9	1102.6	1118.8	1109.3
22.5°	1069.3	1068.3	1084.5	1084.5	1087.4	1097.9	1087.4	1090.3	1076.0	1091.2	1083.6
25°	1039.7	1037.8	1054.0	1054.0	1058.8	1067.4	1055.9	1059.8	1046.4	1061.7	1055.0
27.5°	1007.3	1004.5	1020.7	1021.6	1025.5	1034.0	1021.6	1027.4	1015.0	1029.3	1024.5
30°	973.0	970.2	986.4	987.3	992.1	998.8	986.4	994.0	982.6	996.9	993.0
32.5°	935.9	934.0	949.2	951.1	955.9	960.6	949.2	956.8	947.3	961.6	957.8
35°	897.7	895.8	910.1	913.0	917.8	921.6	909.2	919.7	911.1	924.4	922.5
37.5°	858.7	855.8	871.1	873.0	878.7	880.6	869.2	881.5	873.9	887.3	886.3
40°	817.7	814.8	830.1	832.0	837.7	837.7	828.2	841.5	835.8	848.2	849.1
42.5°	776.7	773.9	787.2	791.0	795.8	795.8	786.2	800.5	796.7	809.1	812.0
45°	733.8	731.0	743.4	747.2	752.9	752.9	743.4	759.6	756.7	769.1	772.9
47.5°	691.9	688.1	699.5	703.3	709.0	708.1	700.5	716.7	715.7	728.1	734.8
50°	646.1	643.3	654.7	658.5	665.2	663.3	657.6	674.7	674.7	687.1	696.7
52.5°	601.4	598.5	609.9	613.7	619.5	619.5	613.7	631.9	634.7	647.1	658.5
55°	555.6	551.8	563.2	567.0	573.7	574.7	569.9	588.0	593.7	608.0	620.4
57.5°	509.9	508.0	517.5	521.3	529.9	529.9	527.0	546.1	553.7	569.0	583.2
60°	463.2	461.3	469.8	474.6	484.1	486.0	484.1	504.1	514.6	529.9	546.1
62.5°	416.5	414.6	423.1	429.8	440.3	442.2	443.2	464.1	475.6	491.8	509.9
65°	369.8	367.9	376.4	384.1	396.5	399.3	402.2	424.1	437.4	454.6	473.7
67.5°	323.1	322.1	330.7	340.2	353.6	357.4	362.1	385.0	400.3	418.4	439.3
70°	277.3	276.4	285.0	296.4	312.6	317.4	323.1	345.9	365.0	384.1	405.0
72.5°	231.6	232.5	242.1	255.4	273.5	278.3	285.9	309.7	330.7	350.7	372.6
75°	189.7	189.7	200.1	215.4	235.4	242.1	250.6	275.4	297.3	318.3	341.2
77.5°	146.8	146.8	159.2	178.2	200.1	206.8	217.3	243.0	266.8	287.8	310.7
80°	107.7	109.6	123.9	143.0	165.8	174.4	186.8	212.5	238.3	259.2	282.1
82.5°	73.4	76.2	91.5	113.4	136.3	144.9	157.2	184.9	210.6	232.5	256.4
85°	43.8	48.6	64.8	86.7	110.6	120.1	133.4	159.2	184.9	206.8	230.6
87.5°	20.0	26.7	43.8	65.8	88.6	99.1	110.6	135.3	161.1	183.0	207.8
90°	1.9	11.4	28.6	47.7	69.6	79.1	90.5	114.4	139.1	159.2	183.0
92.5°	0.0	4.8	17.2	34.3	53.4	62.9	73.4	96.3	118.2	138.2	161.1
95°	0.0	1.9	9.5	23.8	40.0	48.6	58.1	79.1	101.0	120.1	141.0
97.5°	0.0	1.0	5.7	16.2	29.5	37.2	45.7	64.8	84.8	102.9	122.0
100°	0.0	1.0	2.9	10.5	21.9	27.6	36.2	52.4	70.5	86.7	105.8
102.5°	0.0	0.0	1.9	6.7	16.2	21.0	27.6	41.9	58.1	73.4	90.5
105°	0.0	0.0	1.0	4.8	11.4	15.2	21.0	33.4	47.7	61.0	77.2
107.5°	0.0	0.0	1.0	2.9	7.6	11.4	16.2	25.7	38.1	50.5	64.8
110°	1.0	1.0	1.0	1.9	5.7	8.6	11.4	20.0	31.4	41.9	54.3



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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	3.8	5.7	8.6	15.2	24.8	33.4	44.8
115°	1.0	1.0	1.0	1.0	2.9	3.8	5.7	11.4	19.1	26.7	36.2
117.5°	1.0	1.0	1.0	1.0	1.9	2.9	3.8	8.6	14.3	21.0	29.5
120°	1.0	1.0	1.0	1.0	1.0	1.9	2.9	5.7	11.4	16.2	23.8
122.5°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	4.8	8.6	12.4	18.1
125°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	5.7	9.5	14.3
127.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8	6.7	10.5
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	4.8	7.6
132.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8	5.7
135°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	2.9
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
145°	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0
157.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0
165°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0
167.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0
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	1.0
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°	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0
2.5°	1212.2	1215.1	1218.0	1210.3	1215.1	1223.7	1226.5	1215.1	1218.9	1211.3
5°	1208.4	1210.3	1214.1	1204.6	1211.3	1218.9	1223.7	1214.1	1219.9	1214.1
7.5°	1200.8	1202.7	1207.5	1197.9	1206.5	1213.2	1218.9	1209.4	1215.1	1209.4
10°	1189.4	1192.2	1198.9	1187.5	1197.9	1203.7	1209.4	1198.9	1204.6	1198.9
12.5°	1175.1	1179.8	1185.6	1175.1	1185.6	1190.3	1197.9	1187.5	1194.1	1189.4
15°	1157.9	1162.7	1170.3	1159.8	1173.2	1177.0	1184.6	1174.1	1180.8	1176.0
17.5°	1137.9	1143.6	1153.2	1140.8	1156.0	1158.9	1166.5	1157.0	1163.6	1158.9
20°	1115.0	1120.8	1130.3	1118.8	1134.1	1136.0	1144.6	1136.0	1142.7	1139.8
22.5°	1088.4	1095.0	1104.6	1094.1	1110.3	1110.3	1120.8	1112.2	1119.8	1116.9
25°	1060.7	1068.3	1078.8	1067.4	1084.5	1084.5	1096.0	1087.4	1095.0	1093.1
27.5°	1031.2	1039.7	1052.1	1040.7	1057.9	1056.9	1068.3	1060.7	1069.3	1066.4
30°	999.7	1009.2	1021.6	1012.1	1030.2	1028.3	1039.7	1033.1	1040.7	1039.7
32.5°	965.4	975.9	991.1	980.7	998.8	996.9	1011.2	1003.5	1013.1	1011.2
35°	931.1	942.5	957.8	948.3	968.3	965.4	979.7	973.0	982.6	981.6
37.5°	895.8	908.2	923.5	915.9	934.9	932.1	947.3	941.6	952.1	949.2
40°	859.6	872.0	888.2	881.5	901.6	897.7	913.9	909.2	919.7	917.8
42.5°	823.4	836.8	853.0	849.1	868.2	864.4	880.6	876.8	887.3	885.4
45°	786.2	800.5	817.7	813.9	833.9	830.1	846.3	843.4	853.9	853.0
47.5°	749.1	764.3	781.5	779.6	798.6	794.8	812.0	809.1	819.6	819.6
50°	711.0	728.1	745.3	744.3	763.4	759.6	774.8	774.8	786.2	785.3
52.5°	672.8	690.9	709.0	709.0	728.1	724.3	741.5	740.5	751.9	751.9
55°	636.6	652.8	670.9	674.7	692.8	687.1	705.2	707.1	716.7	717.6
57.5°	600.4	617.6	635.7	640.4	657.6	653.8	670.9	672.8	682.4	683.3
60°	564.2	580.4	598.5	605.2	622.3	618.5	635.7	637.6	648.1	649.0
62.5°	528.0	544.2	564.2	570.9	587.1	584.2	602.3	604.2	613.7	615.7
65°	492.7	509.9	528.9	538.5	553.7	549.9	568.0	569.9	580.4	581.3
67.5°	458.4	475.6	494.6	505.1	519.4	517.5	534.6	538.5	547.0	548.9
70°	425.0	442.2	462.2	472.7	487.0	486.0	502.2	505.1	514.6	515.6
72.5°	392.6	409.8	429.8	442.2	454.6	453.6	469.8	473.7	483.2	484.1
75°	361.2	379.3	398.4	411.7	424.1	423.1	439.3	443.2	451.7	452.7
77.5°	331.7	349.8	369.8	383.1	393.6	394.6	408.8	412.7	421.2	424.1
80°	304.0	321.2	340.2	354.5	364.1	366.0	379.3	384.1	390.7	394.6
82.5°	277.3	294.5	313.5	326.9	336.4	338.3	350.7	356.4	363.1	366.0
85°	251.6	268.8	286.9	301.2	309.7	310.7	323.1	328.8	334.5	339.3
87.5°	226.8	244.0	261.1	276.4	284.0	285.9	297.3	303.1	307.8	312.6
90°	202.0	219.2	236.3	250.6	258.3	259.2	271.6	277.3	282.1	285.9
92.5°	179.2	196.3	213.5	227.8	234.4	236.3	246.8	253.5	257.3	261.1
95°	157.2	174.4	189.7	204.9	211.6	214.4	224.0	229.7	234.4	236.3
97.5°	138.2	153.4	167.7	183.0	188.7	191.6	201.1	207.8	211.6	213.5
100°	120.1	134.4	147.7	162.0	167.7	170.6	179.2	184.9	188.7	191.6
102.5°	103.9	117.2	129.6	143.0	148.7	150.6	158.2	163.9	167.7	170.6
105°	89.6	102.0	113.4	125.8	130.6	133.4	140.1	144.9	148.7	150.6
107.5°	76.2	88.6	98.2	109.6	114.4	116.3	122.9	128.7	131.5	132.5
110°	64.8	75.3	84.8	94.3	100.1	102.0	107.7	112.5	115.3	116.3



TEST NUMBER: P895038
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	54.3	63.9	72.4	81.0	85.8	87.7	93.4	98.2	100.1	101.0
115°	44.8	54.3	61.0	69.6	73.4	75.3	80.1	84.8	85.8	87.7
117.5°	36.2	44.8	51.5	58.1	61.9	63.9	67.7	71.5	73.4	74.3
120°	29.5	36.2	41.9	48.6	51.5	53.4	57.2	61.0	61.9	62.9
122.5°	23.8	29.5	34.3	40.0	42.9	44.8	47.7	50.5	51.5	52.4
125°	18.1	23.8	27.6	32.4	35.3	36.2	39.1	41.9	42.9	43.8
127.5°	14.3	18.1	21.9	25.7	27.6	28.6	31.4	33.4	34.3	35.3
130°	10.5	13.3	16.2	20.0	21.9	22.9	24.8	26.7	27.6	27.6
132.5°	7.6	10.5	12.4	15.2	16.2	17.2	19.1	21.0	21.0	21.9
135°	4.8	6.7	8.6	10.5	12.4	12.4	14.3	15.2	16.2	16.2
137.5°	3.8	4.8	5.7	7.6	8.6	9.5	9.5	11.4	11.4	11.4
140°	2.9	3.8	3.8	4.8	5.7	6.7	6.7	7.6	7.6	7.6
142.5°	1.9	2.9	2.9	3.8	3.8	4.8	4.8	4.8	5.7	5.7
145°	1.9	1.9	1.9	2.9	2.9	2.9	2.9	3.8	3.8	3.8
147.5°	1.0	1.0	1.9	1.9	1.9	1.9	1.9	2.9	2.9	2.9
150°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9	1.9	1.9
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°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



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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	15.37	16.91	15.84	17.37	17.85	16.94	18.48	17.41	18.94	19.42
	3H	17.05	18.45	17.53	18.92	19.45	19.57	20.97	20.05	21.44	21.97
	4H	17.65	18.98	18.15	19.46	20.00	20.88	22.21	21.38	22.70	23.24
	6H	18.05	19.29	18.56	19.78	20.34	22.29	23.53	22.80	24.02	24.58
	8H	18.16	19.35	18.69	19.87	20.43	23.03	24.22	23.56	24.74	25.31
	12H	18.24	19.38	18.77	19.89	20.49	23.88	25.02	24.42	25.54	26.13
4H	2H	16.30	17.63	16.80	18.12	18.66	17.50	18.83	18.00	19.31	19.85
	3H	18.28	19.42	18.80	19.94	20.51	20.41	21.55	20.93	22.07	22.64
	4H	19.06	20.10	19.59	20.63	21.23	21.94	22.98	22.47	23.51	24.11
	6H	19.64	20.56	20.19	21.12	21.73	23.58	24.50	24.13	25.06	25.67
	8H	19.82	20.68	20.38	21.25	21.87	24.46	25.33	25.02	25.89	26.51
	12H	19.94	20.73	20.53	21.32	21.95	25.46	26.25	26.05	26.84	27.47
8H	4H	19.93	20.80	20.50	21.36	21.99	22.30	23.16	22.86	23.73	24.35
	6H	20.82	21.55	21.41	22.16	22.79	24.20	24.94	24.79	25.54	26.17
	8H	21.16	21.83	21.77	22.45	23.09	25.28	25.95	25.89	26.56	27.20
	12H	21.44	22.03	22.04	22.63	23.34	26.55	27.14	27.15	27.75	28.45
12H	4H	20.21	21.00	20.79	21.59	22.22	22.34	23.13	22.92	23.72	24.35
	6H	21.26	21.93	21.87	22.55	23.19	24.31	24.97	24.91	25.59	26.23
	8H	21.78	22.38	22.39	22.98	23.69	25.50	26.10	26.11	26.70	27.41