

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: P895113

Luminaire Tested: 8TMB-6SL-FLTU-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895113
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-L930
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 300
Light Source: -
Ballast/Driver: -

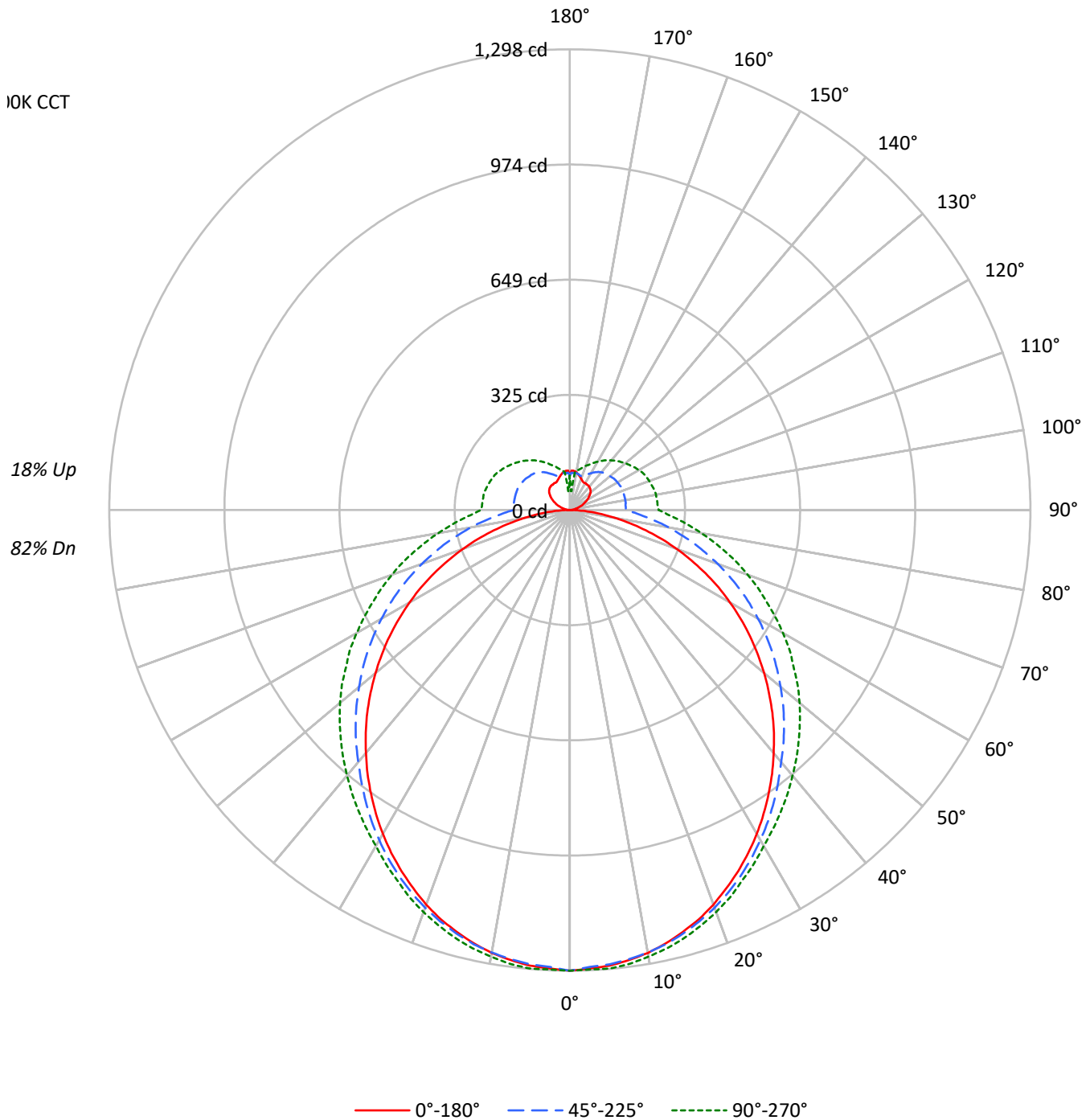
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4907.0 lumens
Efficiency: N/A
Efficacy: 116.3 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

TEST NUMBER: P895113
CATALOG NUMBER: 8TMB-6SL-FLTU-UNV-L930

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
RCR																				
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	82	
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	66	
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	54	
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	45	
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	38	
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	32	
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	28	
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	25	
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	22	
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	20	
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	18	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4605	4605	4605
5°	4579	4419	4408
10°	4545	4257	4198
15°	4488	4092	3998
20°	4425	3923	3795
25°	4342	3746	3589
30°	4253	3564	3402
35°	4155	3382	3247
40°	4051	3203	3099
45°	3947	3046	2959
50°	3827	2884	2822
55°	3697	2725	2670
60°	3541	2553	2525
65°	3355	2373	2361
70°	3109	2174	2209
75°	2769	1971	2044
80°	2321	1753	1875
85°	1746	1532	1721

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3947 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	2.5
10°-20°	350.1	7.1
20°-30°	526.0	10.7
30°-40°	631.6	12.9
40°-50°	664.1	13.5
50°-60°	624.0	12.7
60°-70°	518.9	10.6
70°-80°	370.2	7.5
80°-90°	220.4	4.5
90°-100°	159.5	3.3
100°-110°	157.4	3.2
110°-120°	147.9	3.0
120°-130°	131.0	2.7
130°-140°	108.6	2.2
140°-150°	81.3	1.7
150°-160°	53.4	1.1
160°-170°	30.3	0.6
170°-180°	9.7	0.2
0°-30°	998.8	20.4
0°-40°	1630.4	33.2
0°-60°	2918.4	59.5
0°-90°	4027.9	82.1
90°-120°	464.8	9.5
90°-150°	785.7	16.0
90°-180°	879.0	17.9
0°-180°	4907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1288	1304	1285	1288	1297	122
15°	1230	1249	1235	1244	1248	347
25°	1122	1144	1138	1149	1151	517
35°	977	999	1003	1028	1037	611
45°	807	830	854	897	913	622
55°	620	645	696	753	769	554
65°	422	456	529	595	612	417
75°	222	272	362	432	454	235
85°	56	122	212	283	307	61
90°	0	70	158	226	250	4
95°	6	74	158	224	248	7
105°	22	82	159	222	243	24
115°	44	89	158	212	234	44
125°	66	95	153	199	215	59
135°	82	100	145	181	194	63
145°	86	97	130	161	171	54
155°	88	98	110	136	145	41
165°	101	107	103	104	121	28
175°	111	110	104	89	53	10
180°	97	97	97	97	97	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0
2.5°	1293.2	1296.8	1298.0	1309.8	1305.1	1309.8	1301.5	1292.1	1289.7	1295.6	1288.5
5°	1288.5	1292.1	1293.2	1305.1	1300.4	1303.9	1296.8	1287.3	1284.9	1292.1	1284.9
7.5°	1279.0	1282.6	1283.8	1296.8	1290.9	1295.6	1287.3	1277.8	1276.6	1283.8	1276.6
10°	1267.2	1270.7	1271.9	1283.8	1279.0	1283.8	1275.5	1266.0	1264.8	1273.1	1266.0
12.5°	1250.6	1254.1	1256.5	1268.4	1262.4	1268.4	1258.9	1249.4	1250.6	1257.7	1252.9
15°	1230.4	1235.2	1236.3	1248.2	1243.5	1249.4	1239.9	1230.4	1232.8	1239.9	1235.2
17.5°	1209.1	1213.8	1215.0	1225.7	1220.9	1228.0	1217.4	1209.1	1211.5	1218.6	1215.0
20°	1183.0	1187.7	1190.1	1200.8	1196.0	1203.2	1192.5	1185.4	1187.7	1196.0	1192.5
22.5°	1153.4	1160.5	1161.7	1173.5	1167.6	1174.7	1164.0	1158.1	1161.7	1170.0	1166.4
25°	1122.5	1129.7	1130.8	1142.7	1138.0	1143.9	1133.2	1127.3	1132.0	1140.3	1138.0
27.5°	1089.4	1096.5	1098.8	1109.5	1104.8	1111.9	1100.0	1096.5	1101.2	1109.5	1107.1
30°	1053.8	1060.9	1062.1	1072.8	1069.2	1076.3	1065.7	1060.9	1068.0	1076.3	1073.9
32.5°	1015.9	1023.0	1026.5	1036.0	1032.5	1038.4	1028.9	1026.5	1032.5	1040.8	1039.6
35°	976.7	983.9	987.4	998.1	993.3	999.3	989.8	987.4	996.9	1002.8	1002.8
37.5°	936.4	943.6	947.1	957.8	951.9	959.0	949.5	948.3	959.0	964.9	964.9
40°	893.8	902.1	905.6	915.1	910.4	916.3	908.0	909.2	918.7	925.8	927.0
42.5°	851.1	859.4	863.0	873.6	867.7	873.6	866.5	867.7	878.4	885.5	891.4
45°	807.2	814.4	817.9	829.8	822.6	829.8	822.6	825.0	835.7	846.4	853.5
47.5°	761.0	768.1	774.0	783.5	777.6	783.5	778.8	782.3	795.4	806.1	815.5
50°	714.8	721.9	727.8	736.1	730.2	738.5	732.6	737.3	753.9	764.6	775.2
52.5°	667.4	673.3	682.8	687.5	682.8	692.3	687.5	694.6	711.2	724.3	736.1
55°	620.0	625.9	635.4	638.9	634.2	644.8	641.3	650.8	668.6	682.8	695.8
57.5°	571.4	577.3	585.6	589.1	585.6	597.4	596.2	606.9	624.7	640.1	654.3
60°	521.6	527.5	534.6	538.2	538.2	550.0	550.0	563.1	582.0	596.2	612.8
62.5°	473.0	476.5	483.6	488.4	491.9	503.8	503.8	518.0	538.2	554.8	571.4
65°	422.0	425.5	431.5	437.4	443.3	456.4	457.6	473.0	493.1	509.7	528.7
67.5°	371.0	374.6	380.5	387.6	395.9	409.0	411.3	427.9	449.3	468.2	486.0
70°	321.2	322.4	329.5	339.0	348.5	361.5	365.1	382.9	405.4	424.4	443.3
72.5°	271.5	272.6	279.7	291.6	302.3	316.5	321.2	340.2	362.7	381.7	400.7
75°	221.7	222.9	232.3	246.6	258.4	271.5	277.4	297.5	320.1	340.2	361.5
77.5°	174.2	176.6	186.1	200.3	214.6	230.0	235.9	256.0	280.9	299.9	320.1
80°	130.4	132.8	143.4	158.8	174.2	188.5	195.6	215.7	241.8	260.8	283.3
82.5°	90.1	93.6	106.7	123.3	138.7	154.1	161.2	180.2	203.9	225.2	246.6
85°	55.7	60.5	73.5	91.3	107.9	122.1	129.2	149.4	171.9	192.0	212.2
87.5°	26.1	33.2	46.2	64.0	81.8	93.6	101.9	122.1	143.4	163.6	183.7
90°	0.0	10.7	23.7	41.5	59.3	69.9	79.4	98.4	119.7	138.7	157.7
92.5°	2.4	11.9	26.1	42.7	60.5	71.1	80.6	99.6	119.7	138.7	157.7
95°	5.9	13.0	27.3	45.0	62.8	73.5	81.8	100.8	120.9	139.9	157.7
97.5°	10.7	16.6	30.8	47.4	65.2	74.7	84.2	103.1	122.1	141.1	158.8
100°	14.2	19.0	33.2	49.8	67.6	77.0	86.5	104.3	123.3	142.2	158.8
102.5°	17.8	23.7	36.7	52.2	69.9	79.4	87.7	105.5	124.5	142.2	158.8
105°	22.5	27.3	39.1	55.7	72.3	81.8	90.1	107.9	125.6	143.4	158.8
107.5°	27.3	30.8	42.7	58.1	74.7	83.0	91.3	109.1	126.8	143.4	158.8
110°	33.2	35.6	46.2	60.5	75.9	85.3	93.6	110.2	126.8	143.4	158.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	39.1	39.1	49.8	62.8	78.2	86.5	94.8	111.4	128.0	143.4	158.8
115°	43.9	45.0	53.3	65.2	80.6	88.9	96.0	111.4	128.0	143.4	157.7
117.5°	49.8	49.8	58.1	67.6	81.8	90.1	98.4	112.6	128.0	142.2	156.5
120°	55.7	54.5	61.6	71.1	84.2	91.3	99.6	113.8	128.0	142.2	155.3
122.5°	61.6	59.3	64.0	73.5	85.3	93.6	99.6	113.8	128.0	141.1	154.1
125°	66.4	64.0	67.6	77.0	87.7	94.8	100.8	113.8	128.0	139.9	152.9
127.5°	71.1	68.8	72.3	79.4	88.9	94.8	101.9	113.8	128.0	138.7	150.5
130°	75.9	72.3	77.0	81.8	91.3	96.0	101.9	113.8	126.8	137.5	148.2
132.5°	79.4	75.9	80.6	84.2	92.5	97.2	103.1	113.8	125.6	136.3	147.0
135°	81.8	78.2	84.2	86.5	94.8	99.6	104.3	113.8	124.5	135.1	144.6
137.5°	84.2	79.4	86.5	88.9	96.0	100.8	104.3	112.6	123.3	132.8	142.2
140°	85.3	81.8	88.9	91.3	94.8	99.6	104.3	111.4	120.9	130.4	138.7
142.5°	86.5	81.8	90.1	92.5	94.8	98.4	103.1	109.1	118.5	126.8	135.1
145°	86.5	83.0	90.1	92.5	94.8	97.2	100.8	107.9	115.0	122.1	130.4
147.5°	86.5	84.2	91.3	93.6	96.0	96.0	98.4	105.5	111.4	118.5	125.6
150°	87.7	84.2	91.3	93.6	97.2	97.2	98.4	101.9	109.1	113.8	119.7
152.5°	86.5	85.3	90.1	94.8	97.2	98.4	98.4	99.6	105.5	110.2	115.0
155°	87.7	87.7	91.3	97.2	98.4	98.4	99.6	98.4	100.8	105.5	110.2
157.5°	90.1	92.5	92.5	98.4	100.8	100.8	101.9	100.8	99.6	100.8	105.5
160°	93.6	96.0	96.0	99.6	103.1	103.1	104.3	103.1	101.9	100.8	100.8
162.5°	97.2	99.6	99.6	100.8	104.3	105.5	106.7	105.5	104.3	101.9	100.8
165°	100.8	103.1	103.1	103.1	105.5	106.7	107.9	106.7	106.7	104.3	103.1
167.5°	104.3	106.7	106.7	105.5	106.7	107.9	109.1	107.9	107.9	106.7	104.3
170°	107.9	110.2	110.2	107.9	109.1	109.1	110.2	109.1	109.1	106.7	105.5
172.5°	110.2	112.6	111.4	110.2	110.2	110.2	110.2	109.1	107.9	105.5	105.5
175°	111.4	113.8	113.8	111.4	110.2	110.2	111.4	109.1	107.9	106.7	104.3
177.5°	111.4	113.8	113.8	111.4	111.4	110.2	111.4	110.2	110.2	107.9	105.5
180°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0
2.5°	1293.2	1292.1	1284.9	1293.2	1293.2	1290.9	1300.4	1299.2	1298.0	1295.6
5°	1288.5	1287.3	1280.2	1288.5	1288.5	1287.3	1296.8	1298.0	1299.2	1296.8
7.5°	1281.4	1280.2	1273.1	1281.4	1281.4	1280.2	1290.9	1292.1	1293.2	1289.7
10°	1270.7	1269.5	1262.4	1270.7	1271.9	1270.7	1279.0	1280.2	1282.6	1277.8
12.5°	1256.5	1256.5	1249.4	1257.7	1258.9	1257.7	1266.0	1268.4	1270.7	1264.8
15°	1238.7	1239.9	1234.0	1242.3	1243.5	1243.5	1251.8	1252.9	1256.5	1248.2
17.5°	1217.4	1219.7	1215.0	1223.3	1224.5	1225.7	1230.4	1234.0	1237.5	1228.0
20°	1194.9	1196.0	1192.5	1199.6	1202.0	1200.8	1206.7	1211.5	1215.0	1205.5
22.5°	1167.6	1168.8	1165.2	1172.3	1174.7	1175.9	1180.6	1186.6	1188.9	1180.6
25°	1136.8	1141.5	1139.1	1146.3	1148.6	1148.6	1153.4	1159.3	1162.9	1151.0
27.5°	1107.1	1113.1	1110.7	1117.8	1120.2	1121.4	1123.7	1130.8	1134.4	1123.7
30°	1073.9	1081.1	1079.9	1087.0	1089.4	1088.2	1092.9	1100.0	1104.8	1092.9
32.5°	1037.2	1046.7	1045.5	1055.0	1057.4	1058.5	1062.1	1071.6	1076.3	1065.7
35°	1001.6	1012.3	1013.5	1024.2	1027.7	1028.9	1033.6	1043.1	1047.9	1037.2
37.5°	964.9	979.1	982.7	993.3	996.9	998.1	1002.8	1013.5	1018.2	1007.6
40°	929.3	945.9	950.7	960.2	963.7	967.3	970.8	981.5	987.4	976.7
42.5°	893.8	911.6	917.5	927.0	930.5	934.1	938.8	950.7	955.4	945.9
45°	857.0	876.0	883.1	892.6	897.3	900.9	905.6	916.3	922.2	912.7
47.5°	820.3	839.2	846.4	857.0	861.8	866.5	870.1	883.1	889.0	879.5
50°	781.2	802.5	810.8	820.3	827.4	830.9	835.7	847.5	853.5	845.2
52.5°	742.0	764.6	774.0	783.5	790.6	796.6	798.9	812.0	817.9	809.6
55°	701.7	724.3	734.9	745.6	752.7	759.8	762.2	775.2	781.2	769.3
57.5°	661.4	685.1	695.8	707.7	713.6	721.9	725.4	737.3	743.2	734.9
60°	621.1	643.7	656.7	667.4	675.7	682.8	685.1	698.2	704.1	693.4
62.5°	579.6	603.4	616.4	628.2	635.4	643.7	647.2	659.1	663.8	653.1
65°	537.0	560.7	574.9	585.6	595.1	602.2	604.5	617.6	622.3	611.7
67.5°	494.3	518.0	533.4	545.3	553.6	561.9	564.2	577.3	582.0	573.7
70°	452.8	476.5	491.9	506.2	512.1	520.4	523.9	535.8	540.5	533.4
72.5°	411.3	435.0	451.6	465.9	471.8	480.1	484.8	494.3	501.4	495.5
75°	371.0	394.7	411.3	425.5	431.5	439.8	444.5	454.0	458.7	454.0
77.5°	331.9	355.6	371.0	385.2	392.4	399.5	404.2	413.7	419.6	414.9
80°	294.0	317.7	333.1	346.1	353.2	360.4	365.1	375.8	380.5	376.9
82.5°	258.4	280.9	297.5	310.6	317.7	324.8	329.5	339.0	344.9	340.2
85°	226.4	248.9	264.3	277.4	283.3	290.4	295.2	304.6	309.4	307.0
87.5°	195.6	215.7	233.5	246.6	252.5	259.6	265.5	272.6	278.6	275.0
90°	171.9	189.7	206.3	219.3	226.4	233.5	240.6	247.7	252.5	250.1
92.5°	173.1	189.7	205.1	216.9	224.0	231.1	238.3	246.6	250.1	247.7
95°	173.1	189.7	205.1	216.9	224.0	231.1	238.3	246.6	250.1	247.7
97.5°	173.1	189.7	205.1	216.9	224.0	231.1	238.3	246.6	250.1	246.6
100°	173.1	189.7	205.1	216.9	224.0	230.0	237.1	245.4	248.9	246.6
102.5°	173.1	189.7	203.9	215.7	222.9	228.8	235.9	244.2	247.7	245.4
105°	173.1	188.5	203.9	214.6	221.7	227.6	234.7	241.8	245.4	243.0
107.5°	171.9	187.3	201.5	213.4	219.3	225.2	232.3	239.4	243.0	240.6
110°	171.9	186.1	200.3	211.0	216.9	222.9	230.0	237.1	240.6	238.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	170.7	184.9	199.1	208.6	214.6	220.5	226.4	234.7	238.3	235.9
115°	169.5	183.7	196.8	206.3	212.2	216.9	224.0	232.3	234.7	233.5
117.5°	168.3	181.4	194.4	203.9	209.8	214.6	220.5	227.6	231.1	230.0
120°	167.1	179.0	192.0	200.3	206.3	211.0	215.7	222.9	226.4	224.0
122.5°	164.8	176.6	189.7	198.0	202.7	207.4	212.2	218.1	221.7	220.5
125°	162.4	174.2	186.1	194.4	199.1	202.7	207.4	213.4	215.7	214.6
127.5°	160.0	171.9	182.5	189.7	195.6	199.1	202.7	208.6	211.0	209.8
130°	157.7	168.3	179.0	186.1	190.8	194.4	198.0	203.9	205.1	205.1
132.5°	155.3	164.8	175.4	182.5	187.3	189.7	193.2	198.0	200.3	199.1
135°	152.9	161.2	171.9	177.8	181.4	184.9	188.5	193.2	194.4	194.4
137.5°	149.4	157.7	167.1	173.1	176.6	179.0	182.5	187.3	188.5	188.5
140°	145.8	154.1	162.4	167.1	171.9	174.2	176.6	181.4	182.5	182.5
142.5°	142.2	149.4	157.7	162.4	167.1	168.3	171.9	175.4	176.6	176.6
145°	137.5	145.8	152.9	157.7	161.2	162.4	166.0	169.5	169.5	170.7
147.5°	131.6	138.7	148.2	151.7	155.3	156.5	160.0	162.4	163.6	163.6
150°	125.6	132.8	141.1	147.0	150.5	151.7	152.9	156.5	156.5	157.7
152.5°	119.7	125.6	133.9	139.9	144.6	145.8	147.0	149.4	149.4	150.5
155°	113.8	118.5	125.6	131.6	136.3	138.7	141.1	143.4	143.4	144.6
157.5°	109.1	113.8	119.7	124.5	128.0	131.6	135.1	137.5	137.5	137.5
160°	103.1	106.7	112.6	116.2	120.9	123.3	129.2	131.6	131.6	132.8
162.5°	99.6	100.8	104.3	107.9	111.4	113.8	119.7	125.6	125.6	126.8
165°	100.8	99.6	100.8	101.9	104.3	105.5	109.1	117.4	119.7	120.9
167.5°	103.1	99.6	99.6	99.6	101.9	101.9	105.5	110.2	118.5	116.2
170°	103.1	99.6	97.2	97.2	98.4	97.2	99.6	103.1	107.9	112.6
172.5°	104.3	100.8	97.2	92.5	93.6	92.5	90.1	90.1	91.3	106.7
175°	103.1	100.8	96.0	90.1	88.9	85.3	78.2	72.3	68.8	53.3
177.5°	101.9	98.4	94.8	90.1	87.7	84.2	75.9	66.4	56.9	54.5
180°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2



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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	13.01	14.33	13.63	14.97	15.69	15.64	16.96	16.26	17.60	18.32
	3H	14.42	15.62	15.05	16.26	17.02	18.10	19.31	18.73	19.95	20.70
	4H	14.84	15.98	15.49	16.64	17.41	19.27	20.41	19.92	21.06	21.83
	6H	15.08	16.14	15.74	16.80	17.59	20.45	21.51	21.11	22.18	22.96
	8H	15.12	16.14	15.80	16.82	17.61	21.04	22.06	21.72	22.74	23.53
	12H	15.13	16.10	15.81	16.78	17.60	21.68	22.65	22.36	23.33	24.15
4H	2H	13.92	15.05	14.57	15.71	16.48	15.99	17.12	16.64	17.78	18.55
	3H	15.54	16.51	16.20	17.20	17.99	18.65	19.62	19.31	20.31	21.10
	4H	16.09	16.98	16.77	17.68	18.49	19.97	20.85	20.65	21.55	22.37
	6H	16.43	17.21	17.13	17.93	18.76	21.32	22.10	22.02	22.82	23.64
	8H	16.51	17.24	17.21	17.96	18.80	22.01	22.74	22.71	23.46	24.30
	12H	16.54	17.20	17.26	17.94	18.79	22.76	23.42	23.48	24.17	25.01
8H	4H	16.76	17.49	17.46	18.21	19.05	20.11	20.85	20.82	21.57	22.41
	6H	17.26	17.88	17.99	18.64	19.48	21.61	22.23	22.34	22.99	23.83
	8H	17.41	17.97	18.16	18.73	19.59	22.42	22.97	23.16	23.74	24.59
	12H	17.50	18.00	18.25	18.75	19.67	23.33	23.82	24.08	24.58	25.49
12H	4H	16.93	17.59	17.65	18.33	19.18	20.10	20.77	20.83	21.51	22.36
	6H	17.53	18.08	18.27	18.84	19.70	21.62	22.18	22.37	22.94	23.80
	8H	17.76	18.25	18.51	19.01	19.92	22.49	22.98	23.23	23.73	24.65