

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: P895000

Luminaire Tested: 8TMB-4SL-FLTU-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895000
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-4SL-FLTU-UNV-L850
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 500
Light Source: -
Ballast/Driver: -

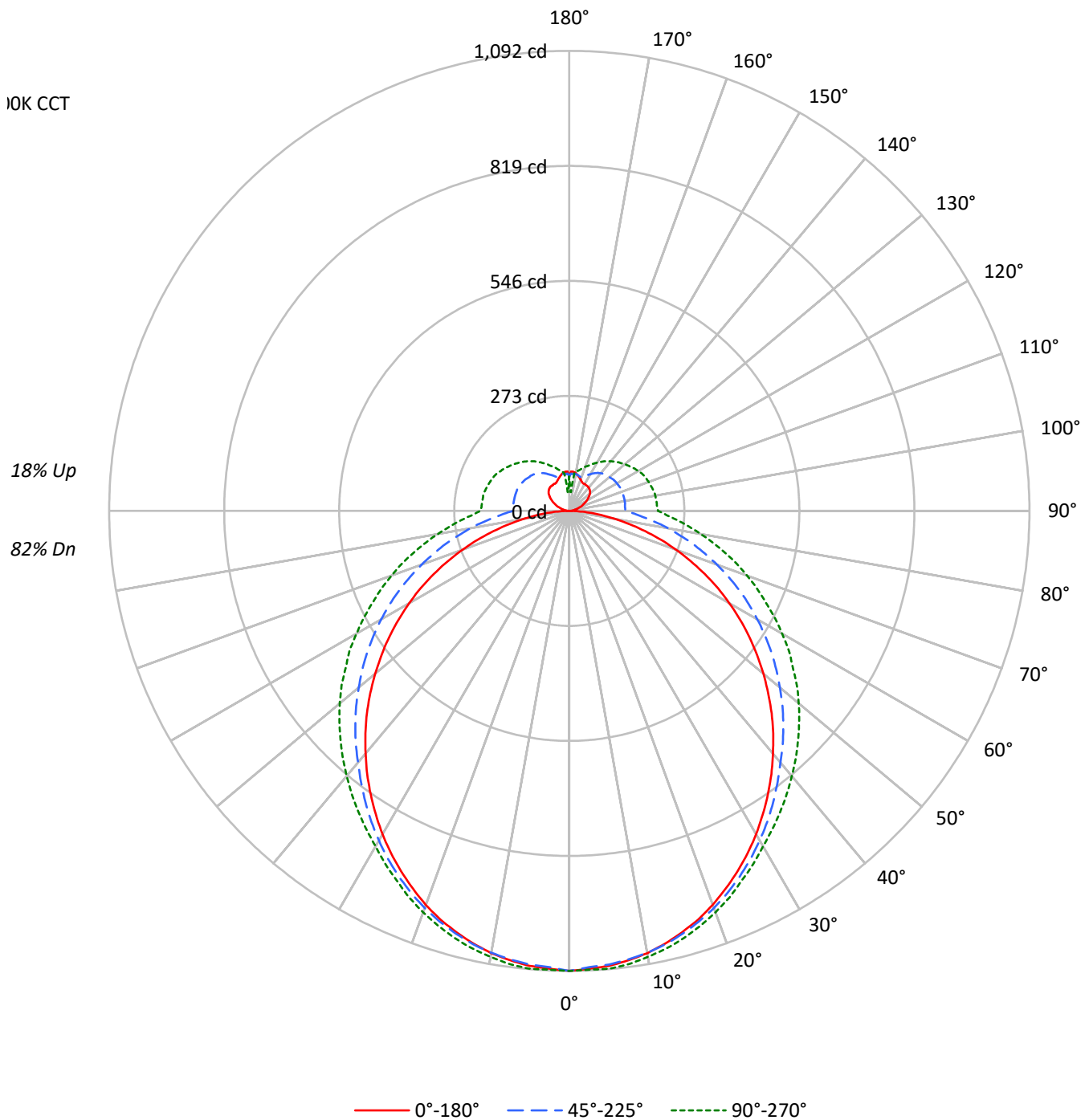
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4128.0 lumens
Efficiency: N/A
Efficacy: 149.6 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): 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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CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L850

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3874	3874	3874
5°	3852	3718	3708
10°	3823	3581	3532
15°	3776	3443	3363
20°	3722	3300	3192
25°	3652	3151	3019
30°	3578	2999	2862
35°	3495	2845	2731
40°	3408	2694	2607
45°	3321	2563	2489
50°	3219	2426	2374
55°	3110	2292	2246
60°	2979	2148	2124
65°	2822	1996	1986
70°	2615	1829	1858
75°	2330	1658	1719
80°	1952	1475	1577
85°	1470	1289	1448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3321 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	2.5
10°-20°	294.5	7.1
20°-30°	442.5	10.7
30°-40°	531.3	12.9
40°-50°	558.7	13.5
50°-60°	524.9	12.7
60°-70°	436.5	10.6
70°-80°	311.5	7.5
80°-90°	185.4	4.5
90°-100°	134.2	3.3
100°-110°	132.4	3.2
110°-120°	124.4	3.0
120°-130°	110.2	2.7
130°-140°	91.3	2.2
140°-150°	68.4	1.7
150°-160°	45.0	1.1
160°-170°	25.5	0.6
170°-180°	8.1	0.2
0°-30°	840.2	20.4
0°-40°	1371.5	33.2
0°-60°	2455.1	59.5
0°-90°	3388.5	82.1
90°-120°	391.0	9.5
90°-150°	660.9	16.0
90°-180°	740.0	17.9
0°-180°	4128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1084	1097	1081	1084	1091	103
15°	1035	1051	1039	1046	1050	292
25°	944	962	957	966	968	435
35°	822	841	844	865	872	514
45°	679	698	718	755	768	523
55°	522	542	585	633	647	466
65°	355	384	445	501	515	351
75°	186	228	304	363	382	198
85°	47	103	178	238	258	51
90°	0	59	133	190	210	3
95°	5	62	133	188	208	6
105°	19	69	134	186	204	20
115°	37	75	133	178	196	37
125°	56	80	129	168	180	50
135°	69	84	122	153	164	53
145°	73	82	110	136	144	46
155°	74	83	93	115	122	34
165°	85	90	87	88	102	24
175°	94	93	88	75	45	9
180°	82	82	82	82	82	



TEST NUMBER: P895000
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9
2.5°	1087.9	1090.9	1091.9	1101.9	1097.9	1101.9	1094.9	1086.9	1084.9	1089.9	1083.9
5°	1083.9	1086.9	1087.9	1097.9	1093.9	1096.9	1090.9	1083.0	1081.0	1086.9	1081.0
7.5°	1076.0	1079.0	1080.0	1090.9	1085.9	1089.9	1083.0	1075.0	1074.0	1080.0	1074.0
10°	1066.0	1069.0	1070.0	1080.0	1076.0	1080.0	1073.0	1065.0	1064.0	1071.0	1065.0
12.5°	1052.0	1055.0	1057.0	1067.0	1062.0	1067.0	1059.0	1051.0	1052.0	1058.0	1054.0
15°	1035.1	1039.1	1040.1	1050.0	1046.1	1051.0	1043.1	1035.1	1037.1	1043.1	1039.1
17.5°	1017.1	1021.1	1022.1	1031.1	1027.1	1033.1	1024.1	1017.1	1019.1	1025.1	1022.1
20°	995.2	999.2	1001.2	1010.2	1006.2	1012.2	1003.2	997.2	999.2	1006.2	1003.2
22.5°	970.3	976.3	977.2	987.2	982.2	988.2	979.2	974.3	977.2	984.2	981.2
25°	944.3	950.3	951.3	961.3	957.3	962.3	953.3	948.3	952.3	959.3	957.3
27.5°	916.4	922.4	924.4	933.4	929.4	935.4	925.4	922.4	926.4	933.4	931.4
30°	886.5	892.5	893.5	902.5	899.5	905.5	896.5	892.5	898.5	905.5	903.5
32.5°	854.6	860.6	863.6	871.5	868.6	873.5	865.6	863.6	868.6	875.5	874.5
35°	821.7	827.7	830.7	839.6	835.6	840.6	832.7	830.7	838.6	843.6	843.6
37.5°	787.8	793.8	796.8	805.7	800.7	806.7	798.8	797.8	806.7	811.7	811.7
40°	751.9	758.9	761.9	769.8	765.8	770.8	763.8	764.8	772.8	778.8	779.8
42.5°	716.0	723.0	726.0	734.9	729.9	734.9	728.9	729.9	738.9	744.9	749.9
45°	679.1	685.1	688.1	698.0	692.1	698.0	692.1	694.0	703.0	712.0	718.0
47.5°	640.2	646.2	651.2	659.1	654.2	659.1	655.2	658.1	669.1	678.1	686.1
50°	601.3	607.3	612.3	619.3	614.3	621.3	616.3	620.3	634.2	643.2	652.2
52.5°	561.4	566.4	574.4	578.4	574.4	582.4	578.4	584.4	598.3	609.3	619.3
55°	521.5	526.5	534.5	537.5	533.5	542.5	539.5	547.5	562.4	574.4	585.4
57.5°	480.6	485.6	492.6	495.6	492.6	502.6	501.6	510.6	525.5	538.5	550.5
60°	438.8	443.8	449.7	452.7	452.7	462.7	462.7	473.7	489.6	501.6	515.5
62.5°	397.9	400.9	406.9	410.8	413.8	423.8	423.8	435.8	452.7	466.7	480.6
65°	355.0	358.0	363.0	368.0	373.0	383.9	384.9	397.9	414.8	428.8	444.7
67.5°	312.1	315.1	320.1	326.1	333.1	344.0	346.0	360.0	377.9	393.9	408.8
70°	270.2	271.2	277.2	285.2	293.2	304.1	307.1	322.1	341.0	357.0	373.0
72.5°	228.4	229.4	235.3	245.3	254.3	266.3	270.2	286.2	305.1	321.1	337.1
75°	186.5	187.5	195.4	207.4	217.4	228.4	233.3	250.3	269.2	286.2	304.1
77.5°	146.6	148.6	156.6	168.5	180.5	193.5	198.4	215.4	236.3	252.3	269.2
80°	109.7	111.7	120.7	133.6	146.6	158.6	164.5	181.5	203.4	219.4	238.3
82.5°	75.8	78.8	89.7	103.7	116.7	129.6	135.6	151.6	171.5	189.5	207.4
85°	46.9	50.9	61.8	76.8	90.7	102.7	108.7	125.6	144.6	161.5	178.5
87.5°	21.9	27.9	38.9	53.8	68.8	78.8	85.8	102.7	120.7	137.6	154.6
90°	0.0	9.0	19.9	34.9	49.9	58.8	66.8	82.8	100.7	116.7	132.6
92.5°	2.0	10.0	21.9	35.9	50.9	59.8	67.8	83.8	100.7	116.7	132.6
95°	5.0	11.0	22.9	37.9	52.9	61.8	68.8	84.8	101.7	117.7	132.6
97.5°	9.0	14.0	25.9	39.9	54.8	62.8	70.8	86.8	102.7	118.7	133.6
100°	12.0	16.0	27.9	41.9	56.8	64.8	72.8	87.8	103.7	119.7	133.6
102.5°	15.0	19.9	30.9	43.9	58.8	66.8	73.8	88.8	104.7	119.7	133.6
105°	18.9	22.9	32.9	46.9	60.8	68.8	75.8	90.7	105.7	120.7	133.6
107.5°	22.9	25.9	35.9	48.9	62.8	69.8	76.8	91.7	106.7	120.7	133.6
110°	27.9	29.9	38.9	50.9	63.8	71.8	78.8	92.7	106.7	120.7	133.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	32.9	32.9	41.9	52.9	65.8	72.8	79.8	93.7	107.7	120.7	133.6
115°	36.9	37.9	44.9	54.8	67.8	74.8	80.8	93.7	107.7	120.7	132.6
117.5°	41.9	41.9	48.9	56.8	68.8	75.8	82.8	94.7	107.7	119.7	131.6
120°	46.9	45.9	51.9	59.8	70.8	76.8	83.8	95.7	107.7	119.7	130.6
122.5°	51.9	49.9	53.8	61.8	71.8	78.8	83.8	95.7	107.7	118.7	129.6
125°	55.8	53.8	56.8	64.8	73.8	79.8	84.8	95.7	107.7	117.7	128.6
127.5°	59.8	57.8	60.8	66.8	74.8	79.8	85.8	95.7	107.7	116.7	126.6
130°	63.8	60.8	64.8	68.8	76.8	80.8	85.8	95.7	106.7	115.7	124.6
132.5°	66.8	63.8	67.8	70.8	77.8	81.8	86.8	95.7	105.7	114.7	123.7
135°	68.8	65.8	70.8	72.8	79.8	83.8	87.8	95.7	104.7	113.7	121.7
137.5°	70.8	66.8	72.8	74.8	80.8	84.8	87.8	94.7	103.7	111.7	119.7
140°	71.8	68.8	74.8	76.8	79.8	83.8	87.8	93.7	101.7	109.7	116.7
142.5°	72.8	68.8	75.8	77.8	79.8	82.8	86.8	91.7	99.7	106.7	113.7
145°	72.8	69.8	75.8	77.8	79.8	81.8	84.8	90.7	96.7	102.7	109.7
147.5°	72.8	70.8	76.8	78.8	80.8	80.8	82.8	88.8	93.7	99.7	105.7
150°	73.8	70.8	76.8	78.8	81.8	81.8	82.8	85.8	91.7	95.7	100.7
152.5°	72.8	71.8	75.8	79.8	81.8	82.8	82.8	83.8	88.8	92.7	96.7
155°	73.8	73.8	76.8	81.8	82.8	82.8	83.8	82.8	84.8	88.8	92.7
157.5°	75.8	77.8	77.8	82.8	84.8	84.8	85.8	84.8	83.8	84.8	88.8
160°	78.8	80.8	80.8	83.8	86.8	86.8	87.8	86.8	85.8	84.8	84.8
162.5°	81.8	83.8	83.8	84.8	87.8	88.8	89.7	88.8	87.8	85.8	84.8
165°	84.8	86.8	86.8	86.8	88.8	89.7	90.7	89.7	89.7	87.8	86.8
167.5°	87.8	89.7	89.7	88.8	89.7	90.7	91.7	90.7	90.7	89.7	87.8
170°	90.7	92.7	92.7	90.7	91.7	91.7	92.7	91.7	91.7	89.7	88.8
172.5°	92.7	94.7	93.7	92.7	92.7	92.7	92.7	91.7	90.7	88.8	88.8
175°	93.7	95.7	95.7	93.7	92.7	92.7	93.7	91.7	90.7	89.7	87.8
177.5°	93.7	95.7	95.7	93.7	93.7	92.7	93.7	92.7	92.7	90.7	88.8
180°	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9
2.5°	1087.9	1086.9	1081.0	1087.9	1087.9	1085.9	1093.9	1092.9	1091.9	1089.9
5°	1083.9	1083.0	1077.0	1083.9	1083.9	1083.0	1090.9	1091.9	1092.9	1090.9
7.5°	1078.0	1077.0	1071.0	1078.0	1078.0	1077.0	1085.9	1086.9	1087.9	1084.9
10°	1069.0	1068.0	1062.0	1069.0	1070.0	1069.0	1076.0	1077.0	1079.0	1075.0
12.5°	1057.0	1057.0	1051.0	1058.0	1059.0	1058.0	1065.0	1067.0	1069.0	1064.0
15°	1042.1	1043.1	1038.1	1045.1	1046.1	1046.1	1053.0	1054.0	1057.0	1050.0
17.5°	1024.1	1026.1	1022.1	1029.1	1030.1	1031.1	1035.1	1038.1	1041.1	1033.1
20°	1005.2	1006.2	1003.2	1009.2	1011.2	1010.2	1015.1	1019.1	1022.1	1014.1
22.5°	982.2	983.2	980.2	986.2	988.2	989.2	993.2	998.2	1000.2	993.2
25°	956.3	960.3	958.3	964.3	966.3	966.3	970.3	975.3	978.2	968.3
27.5°	931.4	936.4	934.4	940.4	942.3	943.3	945.3	951.3	954.3	945.3
30°	903.5	909.4	908.4	914.4	916.4	915.4	919.4	925.4	929.4	919.4
32.5°	872.5	880.5	879.5	887.5	889.5	890.5	893.5	901.5	905.5	896.5
35°	842.6	851.6	852.6	861.6	864.6	865.6	869.6	877.5	881.5	872.5
37.5°	811.7	823.7	826.7	835.6	838.6	839.6	843.6	852.6	856.6	847.6
40°	781.8	795.8	799.7	807.7	810.7	813.7	816.7	825.7	830.7	821.7
42.5°	751.9	766.8	771.8	779.8	782.8	785.8	789.8	799.7	803.7	795.8
45°	721.0	736.9	742.9	750.9	754.9	757.9	761.9	770.8	775.8	767.8
47.5°	690.1	706.0	712.0	721.0	725.0	728.9	731.9	742.9	747.9	739.9
50°	657.1	675.1	682.1	690.1	696.0	699.0	703.0	713.0	718.0	711.0
52.5°	624.2	643.2	651.2	659.1	665.1	670.1	672.1	683.1	688.1	681.1
55°	590.3	609.3	618.3	627.2	633.2	639.2	641.2	652.2	657.1	647.2
57.5°	556.4	576.4	585.4	595.3	600.3	607.3	610.3	620.3	625.2	618.3
60°	522.5	541.5	552.4	561.4	568.4	574.4	576.4	587.3	592.3	583.4
62.5°	487.6	507.6	518.5	528.5	534.5	541.5	544.5	554.4	558.4	549.5
65°	451.7	471.7	483.6	492.6	500.6	506.6	508.6	519.5	523.5	514.6
67.5°	415.8	435.8	448.7	458.7	465.7	472.7	474.7	485.6	489.6	482.6
70°	380.9	400.9	413.8	425.8	430.8	437.8	440.8	450.7	454.7	448.7
72.5°	346.0	366.0	379.9	391.9	396.9	403.9	407.9	415.8	421.8	416.8
75°	312.1	332.1	346.0	358.0	363.0	370.0	373.9	381.9	385.9	381.9
77.5°	279.2	299.2	312.1	324.1	330.1	336.1	340.0	348.0	353.0	349.0
80°	247.3	267.2	280.2	291.2	297.2	303.1	307.1	316.1	320.1	317.1
82.5°	217.4	236.3	250.3	261.3	267.2	273.2	277.2	285.2	290.2	286.2
85°	190.5	209.4	222.4	233.3	238.3	244.3	248.3	256.3	260.3	258.3
87.5°	164.5	181.5	196.4	207.4	212.4	218.4	223.4	229.4	234.3	231.3
90°	144.6	159.6	173.5	184.5	190.5	196.4	202.4	208.4	212.4	210.4
92.5°	145.6	159.6	172.5	182.5	188.5	194.5	200.4	207.4	210.4	208.4
95°	145.6	159.6	172.5	182.5	188.5	194.5	200.4	207.4	210.4	208.4
97.5°	145.6	159.6	172.5	182.5	188.5	194.5	200.4	207.4	210.4	207.4
100°	145.6	159.6	172.5	182.5	188.5	193.5	199.4	206.4	209.4	207.4
102.5°	145.6	159.6	171.5	181.5	187.5	192.5	198.4	205.4	208.4	206.4
105°	145.6	158.6	171.5	180.5	186.5	191.5	197.4	203.4	206.4	204.4
107.5°	144.6	157.6	169.5	179.5	184.5	189.5	195.4	201.4	204.4	202.4
110°	144.6	156.6	168.5	177.5	182.5	187.5	193.5	199.4	202.4	200.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	143.6	155.6	167.5	175.5	180.5	185.5	190.5	197.4	200.4	198.4
115°	142.6	154.6	165.5	173.5	178.5	182.5	188.5	195.4	197.4	196.4
117.5°	141.6	152.6	163.5	171.5	176.5	180.5	185.5	191.5	194.5	193.5
120°	140.6	150.6	161.5	168.5	173.5	177.5	181.5	187.5	190.5	188.5
122.5°	138.6	148.6	159.6	166.5	170.5	174.5	178.5	183.5	186.5	185.5
125°	136.6	146.6	156.6	163.5	167.5	170.5	174.5	179.5	181.5	180.5
127.5°	134.6	144.6	153.6	159.6	164.5	167.5	170.5	175.5	177.5	176.5
130°	132.6	141.6	150.6	156.6	160.5	163.5	166.5	171.5	172.5	172.5
132.5°	130.6	138.6	147.6	153.6	157.6	159.6	162.5	166.5	168.5	167.5
135°	128.6	135.6	144.6	149.6	152.6	155.6	158.6	162.5	163.5	163.5
137.5°	125.6	132.6	140.6	145.6	148.6	150.6	153.6	157.6	158.6	158.6
140°	122.7	129.6	136.6	140.6	144.6	146.6	148.6	152.6	153.6	153.6
142.5°	119.7	125.6	132.6	136.6	140.6	141.6	144.6	147.6	148.6	148.6
145°	115.7	122.7	128.6	132.6	135.6	136.6	139.6	142.6	142.6	143.6
147.5°	110.7	116.7	124.6	127.6	130.6	131.6	134.6	136.6	137.6	137.6
150°	105.7	111.7	118.7	123.7	126.6	127.6	128.6	131.6	131.6	132.6
152.5°	100.7	105.7	112.7	117.7	121.7	122.7	123.7	125.6	125.6	126.6
155°	95.7	99.7	105.7	110.7	114.7	116.7	118.7	120.7	120.7	121.7
157.5°	91.7	95.7	100.7	104.7	107.7	110.7	113.7	115.7	115.7	115.7
160°	86.8	89.7	94.7	97.7	101.7	103.7	108.7	110.7	110.7	111.7
162.5°	83.8	84.8	87.8	90.7	93.7	95.7	100.7	105.7	105.7	106.7
165°	84.8	83.8	84.8	85.8	87.8	88.8	91.7	98.7	100.7	101.7
167.5°	86.8	83.8	83.8	83.8	85.8	85.8	88.8	92.7	99.7	97.7
170°	86.8	83.8	81.8	81.8	82.8	81.8	83.8	86.8	90.7	94.7
172.5°	87.8	84.8	81.8	77.8	78.8	77.8	75.8	75.8	76.8	89.7
175°	86.8	84.8	80.8	75.8	74.8	71.8	65.8	60.8	57.8	44.9
177.5°	85.8	82.8	79.8	75.8	73.8	70.8	63.8	55.8	47.9	45.9
180°	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8



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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	12.41	13.73	13.03	14.37	15.09	15.04	16.36	15.66	16.99	17.72
	3H	13.82	15.02	14.44	15.66	16.42	17.50	18.70	18.13	19.35	20.10
	4H	14.24	15.38	14.89	16.04	16.81	18.67	19.81	19.32	20.46	21.23
	6H	14.48	15.54	15.14	16.20	16.99	19.85	20.91	20.51	21.57	22.36
	8H	14.52	15.53	15.20	16.22	17.01	20.44	21.46	21.12	22.14	22.93
	12H	14.53	15.50	15.21	16.18	17.00	21.08	22.05	21.76	22.73	23.54
4H	2H	13.32	14.45	13.97	15.11	15.88	15.39	16.52	16.04	17.18	17.95
	3H	14.94	15.90	15.60	16.60	17.39	18.05	19.02	18.71	19.71	20.50
	4H	15.49	16.38	16.17	17.07	17.89	19.37	20.25	20.05	20.95	21.77
	6H	15.83	16.61	16.53	17.33	18.16	20.72	21.50	21.42	22.22	23.04
	8H	15.91	16.64	16.61	17.36	18.20	21.41	22.14	22.11	22.86	23.70
	12H	15.94	16.60	16.66	17.34	18.19	22.16	22.82	22.88	23.57	24.41
8H	4H	16.16	16.89	16.86	17.61	18.45	19.51	20.25	20.22	20.96	21.80
	6H	16.66	17.28	17.39	18.04	18.88	21.01	21.63	21.74	22.39	23.23
	8H	16.81	17.37	17.56	18.13	18.99	21.82	22.37	22.56	23.14	23.99
	12H	16.90	17.40	17.65	18.15	19.07	22.73	23.22	23.48	23.98	24.89
12H	4H	16.33	16.99	17.05	17.73	18.58	19.50	20.17	20.23	20.91	21.76
	6H	16.92	17.48	17.67	18.24	19.10	21.02	21.58	21.77	22.34	23.20
	8H	17.16	17.65	17.91	18.41	19.32	21.89	22.38	22.63	23.13	24.05