

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: P895403

Luminaire Tested: 8TMB-SC3-FLTU-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895403
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-SC3-FLTU-UNV-CC83-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

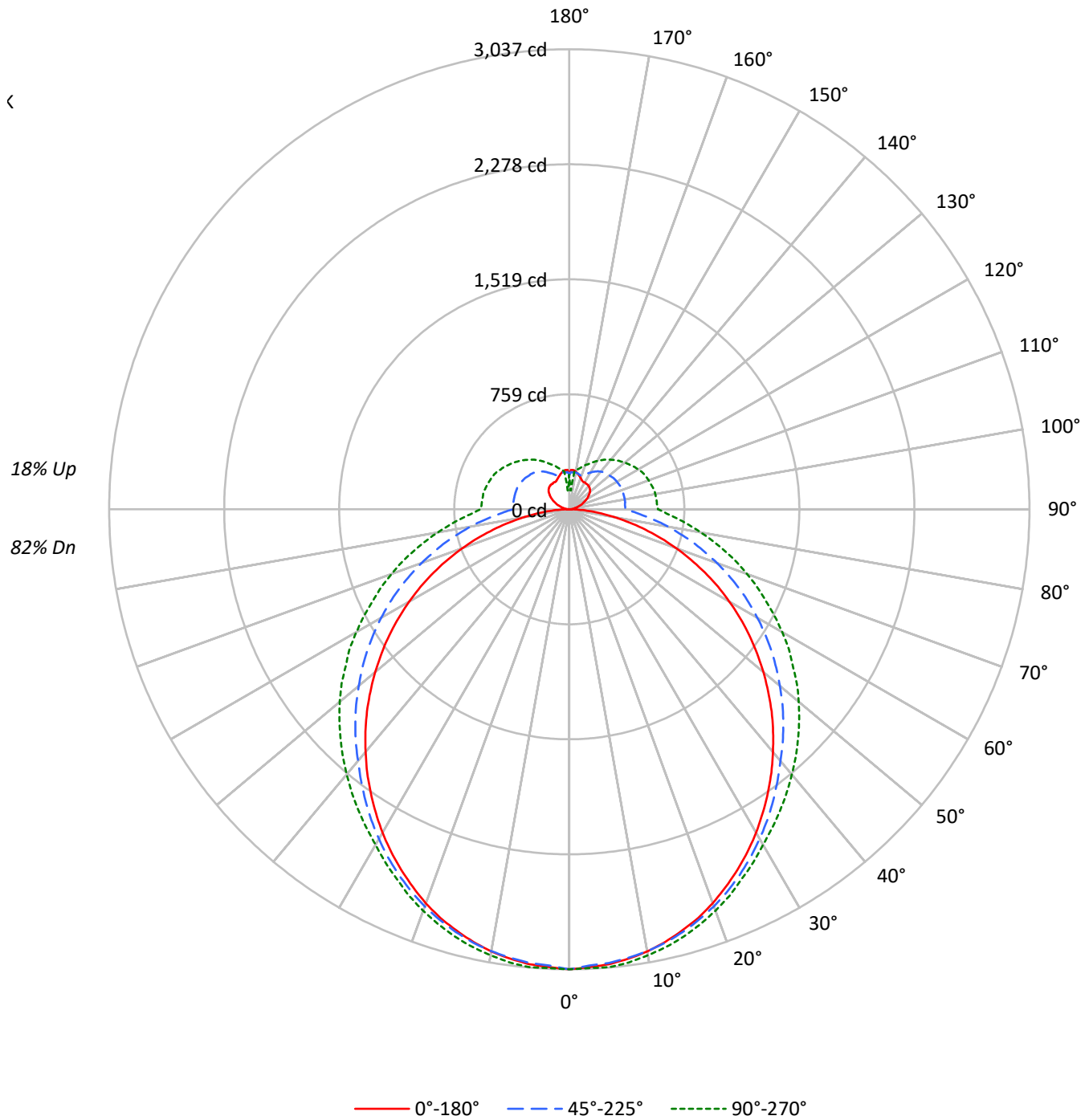
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11480.0 lumens
Efficiency: N/A
Efficacy: 113.2 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): 101.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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	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°	10775	10775	10775
5°	10712	10340	10311
10°	10632	9958	9822
15°	10500	9573	9353
20°	10352	9178	8878
25°	10158	8764	8397
30°	9951	8339	7958
35°	9720	7913	7596
40°	9477	7492	7250
45°	9235	7126	6922
50°	8952	6747	6603
55°	8650	6375	6246
60°	8284	5974	5907
65°	7849	5551	5524
70°	7274	5087	5167
75°	6478	4611	4782
80°	5430	4101	4387
85°	4085	3583	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	2.5
10°-20°	819.1	7.1
20°-30°	1230.5	10.7
30°-40°	1477.6	12.9
40°-50°	1553.7	13.5
50°-60°	1459.8	12.7
60°-70°	1213.9	10.6
70°-80°	866.2	7.5
80°-90°	515.6	4.5
90°-100°	373.2	3.3
100°-110°	368.3	3.2
110°-120°	345.9	3.0
120°-130°	306.5	2.7
130°-140°	254.0	2.2
140°-150°	190.1	1.7
150°-160°	125.0	1.1
160°-170°	70.9	0.6
170°-180°	22.6	0.2
0°-30°	2336.7	20.4
0°-40°	3814.3	33.2
0°-60°	6827.7	59.5
0°-90°	9423.4	82.1
90°-120°	1087.4	9.5
90°-150°	1838.1	16.0
90°-180°	2057.0	17.9
0°-180°	11480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3037	3037	3037	3037	3037	
5°	3014	3050	3006	3014	3034	286
15°	2879	2923	2890	2909	2920	812
25°	2626	2676	2662	2687	2693	1210
35°	2285	2338	2346	2404	2427	1429
45°	1888	1941	1997	2099	2135	1456
55°	1450	1509	1628	1761	1800	1296
65°	987	1068	1237	1392	1431	977
75°	519	635	846	1009	1062	551
85°	130	286	496	663	718	143
90°	0	164	369	530	585	9
95°	14	172	369	524	580	16
105°	53	191	372	519	568	56
115°	103	208	369	496	546	103
125°	155	222	358	466	502	139
135°	191	233	338	424	455	147
145°	202	227	305	377	399	127
155°	205	230	258	319	338	96
165°	236	250	241	244	283	66
175°	261	258	244	208	125	25
180°	227	227	227	227	227	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7
2.5°	3025.6	3033.9	3036.7	3064.4	3053.3	3064.4	3045.0	3022.8	3017.2	3031.1	3014.5
5°	3014.5	3022.8	3025.6	3053.3	3042.2	3050.5	3033.9	3011.7	3006.1	3022.8	3006.1
7.5°	2992.3	3000.6	3003.4	3033.9	3020.0	3031.1	3011.7	2989.5	2986.7	3003.4	2986.7
10°	2964.6	2972.9	2975.6	3003.4	2992.3	3003.4	2984.0	2961.8	2959.0	2978.4	2961.8
12.5°	2925.7	2934.0	2939.6	2967.3	2953.5	2967.3	2945.1	2923.0	2925.7	2942.4	2931.3
15°	2878.6	2889.7	2892.4	2920.2	2909.1	2923.0	2900.8	2878.6	2884.1	2900.8	2889.7
17.5°	2828.7	2839.8	2842.5	2867.5	2856.4	2873.0	2848.1	2828.7	2834.2	2850.8	2842.5
20°	2767.7	2778.7	2784.3	2809.3	2798.2	2814.8	2789.8	2773.2	2778.7	2798.2	2789.8
22.5°	2698.3	2715.0	2717.7	2745.5	2731.6	2748.2	2723.3	2709.4	2717.7	2737.1	2728.8
25°	2626.2	2642.9	2645.6	2673.4	2662.3	2676.1	2651.2	2637.3	2648.4	2667.8	2662.3
27.5°	2548.6	2565.2	2570.8	2595.7	2584.6	2601.3	2573.5	2565.2	2576.3	2595.7	2590.2
30°	2465.4	2482.0	2484.8	2509.7	2501.4	2518.1	2493.1	2482.0	2498.7	2518.1	2512.5
32.5°	2376.6	2393.3	2401.6	2423.8	2415.5	2429.3	2407.1	2401.6	2415.5	2434.9	2432.1
35°	2285.1	2301.8	2310.1	2335.0	2323.9	2337.8	2315.6	2310.1	2332.3	2346.1	2346.1
37.5°	2190.8	2207.5	2215.8	2240.7	2226.9	2243.5	2221.3	2218.6	2243.5	2257.4	2257.4
40°	2091.0	2110.4	2118.7	2140.9	2129.8	2143.7	2124.3	2127.0	2149.2	2165.9	2168.6
42.5°	1991.2	2010.6	2018.9	2043.8	2030.0	2043.8	2027.2	2030.0	2054.9	2071.6	2085.4
45°	1888.5	1905.2	1913.5	1941.2	1924.6	1941.2	1924.6	1930.1	1955.1	1980.1	1996.7
47.5°	1780.4	1797.0	1810.9	1833.1	1819.2	1833.1	1822.0	1830.3	1860.8	1885.8	1908.0
50°	1672.2	1688.9	1702.7	1722.2	1708.3	1727.7	1713.8	1724.9	1763.8	1788.7	1813.7
52.5°	1561.3	1575.2	1597.4	1608.5	1597.4	1619.5	1608.5	1625.1	1663.9	1694.4	1722.2
55°	1450.4	1464.2	1486.4	1494.8	1483.7	1508.6	1500.3	1522.5	1564.1	1597.4	1627.9
57.5°	1336.7	1350.5	1370.0	1378.3	1370.0	1397.7	1394.9	1419.9	1461.5	1497.5	1530.8
60°	1220.2	1234.1	1250.7	1259.0	1259.0	1286.8	1286.8	1317.3	1361.6	1394.9	1433.7
62.5°	1106.5	1114.8	1131.5	1142.6	1150.9	1178.6	1178.6	1211.9	1259.0	1297.9	1336.7
65°	987.3	995.6	1009.4	1023.3	1037.2	1067.7	1070.5	1106.5	1153.7	1192.5	1236.8
67.5°	868.0	876.3	890.2	906.8	926.2	956.8	962.3	1001.1	1051.0	1095.4	1137.0
70°	751.5	754.3	770.9	793.1	815.3	845.8	854.1	895.7	948.4	992.8	1037.2
72.5°	635.1	637.8	654.5	682.2	707.2	740.4	751.5	795.9	848.6	893.0	937.3
75°	518.6	521.4	543.5	576.8	604.6	635.1	648.9	696.1	748.8	795.9	845.8
77.5°	407.7	413.2	435.4	468.7	501.9	538.0	551.9	599.0	657.2	701.6	748.8
80°	305.1	310.6	335.6	371.6	407.7	440.9	457.6	504.7	565.7	610.1	662.8
82.5°	210.8	219.1	249.6	288.4	324.5	360.5	377.2	421.5	477.0	526.9	576.8
85°	130.3	141.4	171.9	213.5	252.4	285.6	302.3	349.4	402.1	449.3	496.4
87.5°	61.0	77.6	108.2	149.8	191.4	219.1	238.5	285.6	335.6	382.7	429.8
90°	0.0	25.0	55.5	97.1	138.7	163.6	185.8	230.2	280.1	324.5	368.8
92.5°	5.5	27.7	61.0	99.8	141.4	166.4	188.6	232.9	280.1	324.5	368.8
95°	13.9	30.5	63.8	105.4	147.0	171.9	191.4	235.7	282.9	327.2	368.8
97.5°	25.0	38.8	72.1	110.9	152.5	174.7	196.9	241.3	285.6	330.0	371.6
100°	33.3	44.4	77.6	116.5	158.1	180.3	202.4	244.0	288.4	332.8	371.6
102.5°	41.6	55.5	86.0	122.0	163.6	185.8	205.2	246.8	291.2	332.8	371.6
105°	52.7	63.8	91.5	130.3	169.2	191.4	210.8	252.4	294.0	335.6	371.6
107.5°	63.8	72.1	99.8	135.9	174.7	194.1	213.5	255.1	296.7	335.6	371.6
110°	77.6	83.2	108.2	141.4	177.5	199.7	219.1	257.9	296.7	335.6	371.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	91.5	91.5	116.5	147.0	183.0	202.4	221.9	260.7	299.5	335.6	371.6
115°	102.6	105.4	124.8	152.5	188.6	208.0	224.6	260.7	299.5	335.6	368.8
117.5°	116.5	116.5	135.9	158.1	191.4	210.8	230.2	263.5	299.5	332.8	366.1
120°	130.3	127.6	144.2	166.4	196.9	213.5	232.9	266.2	299.5	332.8	363.3
122.5°	144.2	138.7	149.8	171.9	199.7	219.1	232.9	266.2	299.5	330.0	360.5
125°	155.3	149.8	158.1	180.3	205.2	221.9	235.7	266.2	299.5	327.2	357.7
127.5°	166.4	160.8	169.2	185.8	208.0	221.9	238.5	266.2	299.5	324.5	352.2
130°	177.5	169.2	180.3	191.4	213.5	224.6	238.5	266.2	296.7	321.7	346.7
132.5°	185.8	177.5	188.6	196.9	216.3	227.4	241.3	266.2	294.0	318.9	343.9
135°	191.4	183.0	196.9	202.4	221.9	232.9	244.0	266.2	291.2	316.1	338.3
137.5°	196.9	185.8	202.4	208.0	224.6	235.7	244.0	263.5	288.4	310.6	332.8
140°	199.7	191.4	208.0	213.5	221.9	232.9	244.0	260.7	282.9	305.1	324.5
142.5°	202.4	191.4	210.8	216.3	221.9	230.2	241.3	255.1	277.3	296.7	316.1
145°	202.4	194.1	210.8	216.3	221.9	227.4	235.7	252.4	269.0	285.6	305.1
147.5°	202.4	196.9	213.5	219.1	224.6	224.6	230.2	246.8	260.7	277.3	294.0
150°	205.2	196.9	213.5	219.1	227.4	227.4	230.2	238.5	255.1	266.2	280.1
152.5°	202.4	199.7	210.8	221.9	227.4	230.2	230.2	232.9	246.8	257.9	269.0
155°	205.2	205.2	213.5	227.4	230.2	230.2	232.9	230.2	235.7	246.8	257.9
157.5°	210.8	216.3	216.3	230.2	235.7	235.7	238.5	235.7	232.9	235.7	246.8
160°	219.1	224.6	224.6	232.9	241.3	241.3	244.0	241.3	238.5	235.7	235.7
162.5°	227.4	232.9	232.9	235.7	244.0	246.8	249.6	246.8	244.0	238.5	235.7
165°	235.7	241.3	241.3	241.3	246.8	249.6	252.4	249.6	249.6	244.0	241.3
167.5°	244.0	249.6	249.6	246.8	249.6	252.4	255.1	252.4	252.4	249.6	244.0
170°	252.4	257.9	257.9	252.4	255.1	255.1	257.9	255.1	255.1	249.6	246.8
172.5°	257.9	263.5	260.7	257.9	257.9	257.9	257.9	255.1	252.4	246.8	246.8
175°	260.7	266.2	266.2	260.7	257.9	257.9	260.7	255.1	252.4	249.6	244.0
177.5°	260.7	266.2	266.2	260.7	260.7	257.9	260.7	257.9	257.9	252.4	246.8
180°	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7	3036.7
2.5°	3025.6	3022.8	3006.1	3025.6	3025.6	3020.0	3042.2	3039.4	3036.7	3031.1
5°	3014.5	3011.7	2995.1	3014.5	3014.5	3011.7	3033.9	3036.7	3039.4	3033.9
7.5°	2997.8	2995.1	2978.4	2997.8	2997.8	2995.1	3020.0	3022.8	3025.6	3017.2
10°	2972.9	2970.1	2953.5	2972.9	2975.6	2972.9	2992.3	2995.1	3000.6	2989.5
12.5°	2939.6	2939.6	2923.0	2942.4	2945.1	2942.4	2961.8	2967.3	2972.9	2959.0
15°	2898.0	2900.8	2886.9	2906.3	2909.1	2909.1	2928.5	2931.3	2939.6	2920.2
17.5°	2848.1	2853.6	2842.5	2861.9	2864.7	2867.5	2878.6	2886.9	2895.2	2873.0
20°	2795.4	2798.2	2789.8	2806.5	2812.0	2809.3	2823.1	2834.2	2842.5	2820.3
22.5°	2731.6	2734.4	2726.1	2742.7	2748.2	2751.0	2762.1	2776.0	2781.5	2762.1
25°	2659.5	2670.6	2665.0	2681.7	2687.2	2687.2	2698.3	2712.2	2720.5	2692.8
27.5°	2590.2	2604.0	2598.5	2615.1	2620.7	2623.4	2629.0	2645.6	2654.0	2629.0
30°	2512.5	2529.2	2526.4	2543.0	2548.6	2545.8	2556.9	2573.5	2584.6	2556.9
32.5°	2426.6	2448.7	2446.0	2468.1	2473.7	2476.5	2484.8	2507.0	2518.1	2493.1
35°	2343.4	2368.3	2371.1	2396.0	2404.4	2407.1	2418.2	2440.4	2451.5	2426.6
37.5°	2257.4	2290.7	2299.0	2323.9	2332.3	2335.0	2346.1	2371.1	2382.2	2357.2
40°	2174.2	2213.0	2224.1	2246.3	2254.6	2262.9	2271.3	2296.2	2310.1	2285.1
42.5°	2091.0	2132.6	2146.5	2168.6	2177.0	2185.3	2196.4	2224.1	2235.2	2213.0
45°	2005.0	2049.4	2066.0	2088.2	2099.3	2107.6	2118.7	2143.7	2157.5	2135.4
47.5°	1919.1	1963.4	1980.1	2005.0	2016.1	2027.2	2035.5	2066.0	2079.9	2057.7
50°	1827.5	1877.5	1896.9	1919.1	1935.7	1944.0	1955.1	1982.8	1996.7	1977.3
52.5°	1736.0	1788.7	1810.9	1833.1	1849.7	1863.6	1869.1	1899.6	1913.5	1894.1
55°	1641.7	1694.4	1719.4	1744.3	1761.0	1777.6	1783.2	1813.7	1827.5	1799.8
57.5°	1547.4	1602.9	1627.9	1655.6	1669.5	1688.9	1697.2	1724.9	1738.8	1719.4
60°	1453.2	1505.8	1536.4	1561.3	1580.7	1597.4	1602.9	1633.4	1647.3	1622.3
62.5°	1356.1	1411.6	1442.1	1469.8	1486.4	1505.8	1514.2	1541.9	1553.0	1528.0
65°	1256.3	1311.7	1345.0	1370.0	1392.1	1408.8	1414.3	1444.8	1455.9	1431.0
67.5°	1156.4	1211.9	1247.9	1275.7	1295.1	1314.5	1320.0	1350.5	1361.6	1342.2
70°	1059.4	1114.8	1150.9	1184.2	1198.0	1217.4	1225.8	1253.5	1264.6	1247.9
72.5°	962.3	1017.8	1056.6	1089.9	1103.7	1123.1	1134.2	1156.4	1173.1	1159.2
75°	868.0	923.5	962.3	995.6	1009.4	1028.9	1040.0	1062.1	1073.2	1062.1
77.5°	776.5	832.0	868.0	901.3	917.9	934.6	945.7	967.8	981.7	970.6
80°	687.8	743.2	779.3	809.8	826.4	843.1	854.1	879.1	890.2	881.9
82.5°	604.6	657.2	696.1	726.6	743.2	759.9	770.9	793.1	807.0	795.9
85°	529.7	582.4	618.4	648.9	662.8	679.4	690.5	712.7	723.8	718.3
87.5°	457.6	504.7	546.3	576.8	590.7	607.3	621.2	637.8	651.7	643.4
90°	402.1	443.7	482.5	513.0	529.7	546.3	563.0	579.6	590.7	585.1
92.5°	404.9	443.7	479.8	507.5	524.1	540.8	557.4	576.8	585.1	579.6
95°	404.9	443.7	479.8	507.5	524.1	540.8	557.4	576.8	585.1	579.6
97.5°	404.9	443.7	479.8	507.5	524.1	540.8	557.4	576.8	585.1	576.8
100°	404.9	443.7	479.8	507.5	524.1	538.0	554.6	574.1	582.4	576.8
102.5°	404.9	443.7	477.0	504.7	521.4	535.2	551.9	571.3	579.6	574.1
105°	404.9	440.9	477.0	501.9	518.6	532.5	549.1	565.7	574.1	568.5
107.5°	402.1	438.2	471.4	499.2	513.0	526.9	543.5	560.2	568.5	563.0
110°	402.1	435.4	468.7	493.6	507.5	521.4	538.0	554.6	563.0	557.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	399.3	432.6	465.9	488.1	501.9	515.8	529.7	549.1	557.4	551.9
115°	396.6	429.8	460.4	482.5	496.4	507.5	524.1	543.5	549.1	546.3
117.5°	393.8	424.3	454.8	477.0	490.9	501.9	515.8	532.5	540.8	538.0
120°	391.0	418.8	449.3	468.7	482.5	493.6	504.7	521.4	529.7	524.1
122.5°	385.5	413.2	443.7	463.1	474.2	485.3	496.4	510.3	518.6	515.8
125°	379.9	407.7	435.4	454.8	465.9	474.2	485.3	499.2	504.7	501.9
127.5°	374.4	402.1	427.1	443.7	457.6	465.9	474.2	488.1	493.6	490.9
130°	368.8	393.8	418.8	435.4	446.5	454.8	463.1	477.0	479.8	479.8
132.5°	363.3	385.5	410.4	427.1	438.2	443.7	452.0	463.1	468.7	465.9
135°	357.7	377.2	402.1	416.0	424.3	432.6	440.9	452.0	454.8	454.8
137.5°	349.4	368.8	391.0	404.9	413.2	418.8	427.1	438.2	440.9	440.9
140°	341.1	360.5	379.9	391.0	402.1	407.7	413.2	424.3	427.1	427.1
142.5°	332.8	349.4	368.8	379.9	391.0	393.8	402.1	410.4	413.2	413.2
145°	321.7	341.1	357.7	368.8	377.2	379.9	388.2	396.6	396.6	399.3
147.5°	307.8	324.5	346.7	355.0	363.3	366.1	374.4	379.9	382.7	382.7
150°	294.0	310.6	330.0	343.9	352.2	355.0	357.7	366.1	366.1	368.8
152.5°	280.1	294.0	313.4	327.2	338.3	341.1	343.9	349.4	349.4	352.2
155°	266.2	277.3	294.0	307.8	318.9	324.5	330.0	335.6	335.6	338.3
157.5°	255.1	266.2	280.1	291.2	299.5	307.8	316.1	321.7	321.7	321.7
160°	241.3	249.6	263.5	271.8	282.9	288.4	302.3	307.8	307.8	310.6
162.5°	232.9	235.7	244.0	252.4	260.7	266.2	280.1	294.0	294.0	296.7
165°	235.7	232.9	235.7	238.5	244.0	246.8	255.1	274.5	280.1	282.9
167.5°	241.3	232.9	232.9	232.9	238.5	238.5	246.8	257.9	277.3	271.8
170°	241.3	232.9	227.4	227.4	230.2	227.4	232.9	241.3	252.4	263.5
172.5°	244.0	235.7	227.4	216.3	219.1	216.3	210.8	210.8	213.5	249.6
175°	241.3	235.7	224.6	210.8	208.0	199.7	183.0	169.2	160.8	124.8
177.5°	238.5	230.2	221.9	210.8	205.2	196.9	177.5	155.3	133.1	127.6
180°	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4	227.4



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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	15.97	17.29	16.58	17.92	18.64	18.60	19.92	19.21	20.55	21.27
	3H	17.37	18.57	18.00	19.21	19.97	21.06	22.26	21.69	22.90	23.66
	4H	17.80	18.94	18.45	19.59	20.36	22.23	23.36	22.87	24.02	24.79
	6H	18.03	19.09	18.70	19.76	20.54	23.41	24.46	24.07	25.13	25.91
	8H	18.08	19.09	18.75	19.78	20.56	24.00	25.01	24.67	25.70	26.48
	12H	18.09	19.06	18.77	19.74	20.55	24.63	25.60	25.31	26.28	27.10
4H	2H	16.87	18.01	17.52	18.66	19.43	18.94	20.08	19.59	20.73	21.50
	3H	18.49	19.46	19.15	20.15	20.94	21.60	22.57	22.27	23.26	24.05
	4H	19.05	19.93	19.73	20.63	21.45	22.92	23.80	23.60	24.50	25.32
	6H	19.38	20.16	20.08	20.88	21.71	24.27	25.05	24.97	25.77	26.60
	8H	19.46	20.19	20.16	20.91	21.75	24.96	25.69	25.66	26.41	27.25
	12H	19.49	20.15	20.21	20.90	21.74	25.71	26.38	26.44	27.12	27.97
8H	4H	19.71	20.44	20.41	21.16	22.00	23.07	23.80	23.77	24.52	25.36
	6H	20.21	20.83	20.95	21.59	22.43	24.56	25.18	25.29	25.94	26.78
	8H	20.37	20.92	21.11	21.69	22.54	25.37	25.93	26.12	26.69	27.55
	12H	20.46	20.95	21.21	21.70	22.62	26.28	26.78	27.03	27.53	28.45
12H	4H	19.88	20.54	20.60	21.29	22.13	23.06	23.72	23.78	24.46	25.31
	6H	20.48	21.03	21.22	21.80	22.65	24.58	25.13	25.32	25.90	26.75
	8H	20.71	21.21	21.46	21.96	22.88	25.44	25.93	26.19	26.69	27.60