

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: P895412

Luminaire Tested: 8TMB-SC3-FLTU-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895412
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-CC93-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

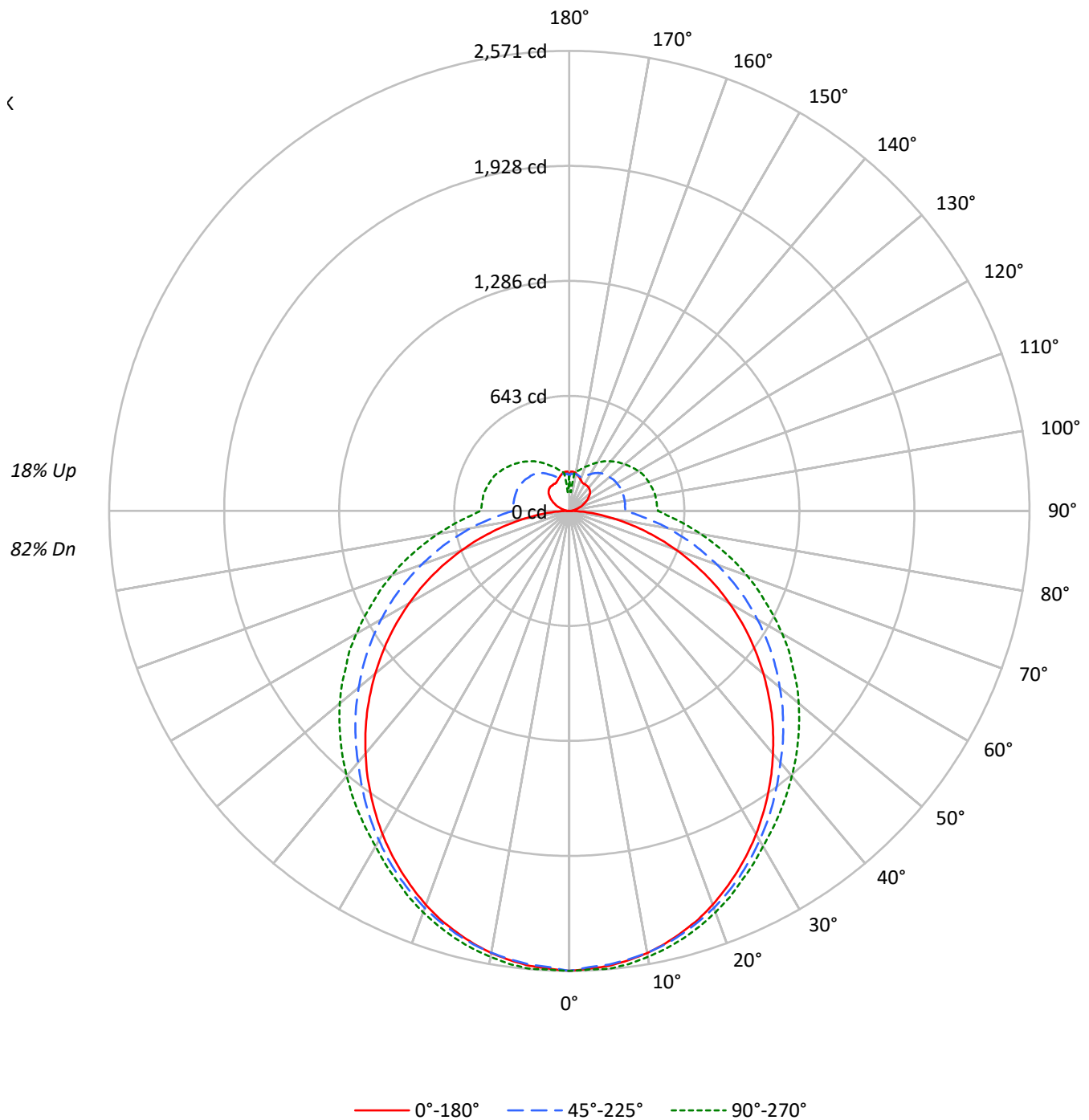
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9718.0 lumens
Efficiency: N/A
Efficacy: 95.8 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 (Ain): 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°	9121	9121	9121
5°	9068	8753	8729
10°	9000	8430	8314
15°	8889	8104	7918
20°	8763	7769	7516
25°	8599	7419	7108
30°	8424	7060	6737
35°	8228	6698	6430
40°	8023	6343	6138
45°	7818	6032	5860
50°	7578	5712	5589
55°	7322	5396	5287
60°	7013	5057	5000
65°	6644	4699	4676
70°	6158	4306	4374
75°	5484	3903	4048
80°	4595	3472	3713
85°	3458	3033	3408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7818 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.0	2.5
10°-20°	693.3	7.1
20°-30°	1041.7	10.7
30°-40°	1250.8	12.9
40°-50°	1315.2	13.5
50°-60°	1235.7	12.7
60°-70°	1027.6	10.6
70°-80°	733.2	7.5
80°-90°	436.4	4.5
90°-100°	315.9	3.3
100°-110°	311.7	3.2
110°-120°	292.8	3.0
120°-130°	259.5	2.7
130°-140°	215.0	2.2
140°-150°	161.0	1.7
150°-160°	105.8	1.1
160°-170°	60.0	0.6
170°-180°	19.1	0.2
0°-30°	1978.1	20.4
0°-40°	3228.8	33.2
0°-60°	5779.8	59.5
0°-90°	7977.0	82.1
90°-120°	920.5	9.5
90°-150°	1555.9	16.0
90°-180°	1741.0	17.9
0°-180°	9718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2571	2571	2571	2571	2571	
5°	2552	2582	2545	2552	2568	242
15°	2437	2474	2446	2463	2472	687
25°	2223	2265	2254	2275	2280	1024
35°	1934	1979	1986	2035	2054	1210
45°	1599	1643	1690	1777	1808	1232
55°	1228	1277	1378	1491	1524	1097
65°	836	904	1047	1178	1211	827
75°	439	538	716	854	899	466
85°	110	242	420	561	608	121
90°	0	138	312	448	495	8
95°	12	146	312	444	491	13
105°	45	162	315	439	481	48
115°	87	176	312	420	462	87
125°	132	188	303	394	425	117
135°	162	197	286	359	385	125
145°	171	192	258	319	338	108
155°	174	195	218	270	286	81
165°	200	211	204	207	240	56
175°	221	218	207	176	106	21
180°	192	192	192	192	192	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6
2.5°	2561.2	2568.2	2570.6	2594.1	2584.7	2594.1	2577.6	2558.8	2554.1	2565.9	2551.8
5°	2551.8	2558.8	2561.2	2584.7	2575.3	2582.3	2568.2	2549.4	2544.8	2558.8	2544.8
7.5°	2533.0	2540.1	2542.4	2568.2	2556.5	2565.9	2549.4	2530.7	2528.3	2542.4	2528.3
10°	2509.5	2516.6	2518.9	2542.4	2533.0	2542.4	2526.0	2507.2	2504.8	2521.3	2507.2
12.5°	2476.7	2483.7	2488.4	2511.9	2500.1	2511.9	2493.1	2474.3	2476.7	2490.8	2481.4
15°	2436.8	2446.2	2448.5	2472.0	2462.6	2474.3	2455.5	2436.8	2441.5	2455.5	2446.2
17.5°	2394.5	2403.9	2406.2	2427.4	2418.0	2432.1	2410.9	2394.5	2399.2	2413.3	2406.2
20°	2342.9	2352.3	2356.9	2378.1	2368.7	2382.8	2361.6	2347.6	2352.3	2368.7	2361.6
22.5°	2284.2	2298.3	2300.6	2324.1	2312.3	2326.4	2305.3	2293.6	2300.6	2317.0	2310.0
25°	2223.1	2237.2	2239.6	2263.0	2253.7	2265.4	2244.3	2232.5	2241.9	2258.4	2253.7
27.5°	2157.4	2171.5	2176.2	2197.3	2187.9	2202.0	2178.5	2171.5	2180.9	2197.3	2192.6
30°	2087.0	2101.1	2103.4	2124.5	2117.5	2131.6	2110.5	2101.1	2115.1	2131.6	2126.9
32.5°	2011.9	2025.9	2033.0	2051.8	2044.7	2056.5	2037.7	2033.0	2044.7	2061.2	2058.8
35°	1934.4	1948.5	1955.5	1976.6	1967.3	1979.0	1960.2	1955.5	1974.3	1986.0	1986.0
37.5°	1854.6	1868.7	1875.7	1896.8	1885.1	1899.2	1880.4	1878.0	1899.2	1910.9	1910.9
40°	1770.1	1786.5	1793.5	1812.3	1802.9	1814.7	1798.2	1800.6	1819.4	1833.4	1835.8
42.5°	1685.5	1702.0	1709.0	1730.1	1718.4	1730.1	1716.1	1718.4	1739.5	1753.6	1765.4
45°	1598.7	1612.8	1619.8	1643.3	1629.2	1643.3	1629.2	1633.9	1655.0	1676.2	1690.2
47.5°	1507.1	1521.2	1533.0	1551.7	1540.0	1551.7	1542.3	1549.4	1575.2	1596.3	1615.1
50°	1415.6	1429.7	1441.4	1457.8	1446.1	1462.5	1450.8	1460.2	1493.0	1514.2	1535.3
52.5°	1321.7	1333.4	1352.2	1361.6	1352.2	1371.0	1361.6	1375.7	1408.5	1434.4	1457.8
55°	1227.8	1239.5	1258.3	1265.3	1255.9	1277.1	1270.0	1288.8	1324.0	1352.2	1378.0
57.5°	1131.5	1143.3	1159.7	1166.7	1159.7	1183.2	1180.8	1201.9	1237.2	1267.7	1295.9
60°	1032.9	1044.7	1058.7	1065.8	1065.8	1089.3	1089.3	1115.1	1152.7	1180.8	1213.7
62.5°	936.7	943.7	957.8	967.2	974.2	997.7	997.7	1025.9	1065.8	1098.7	1131.5
65°	835.7	842.8	854.5	866.2	878.0	903.8	906.2	936.7	976.6	1009.4	1047.0
67.5°	734.8	741.8	753.6	767.7	784.1	809.9	814.6	847.5	889.7	927.3	962.5
70°	636.2	638.5	652.6	671.4	690.2	716.0	723.0	758.3	802.9	840.4	878.0
72.5°	537.6	539.9	554.0	577.5	598.6	626.8	636.2	673.7	718.4	755.9	793.5
75°	439.0	441.3	460.1	488.3	511.8	537.6	549.3	589.2	633.8	673.7	716.0
77.5°	345.1	349.8	368.6	396.7	424.9	455.4	467.2	507.1	556.4	593.9	633.8
80°	258.2	262.9	284.1	314.6	345.1	373.3	387.3	427.3	478.9	516.5	561.1
82.5°	178.4	185.5	211.3	244.1	274.7	305.2	319.3	356.8	403.8	446.0	488.3
85°	110.3	119.7	145.5	180.8	213.6	241.8	255.9	295.8	340.4	380.3	420.2
87.5°	51.6	65.7	91.6	126.8	162.0	185.5	201.9	241.8	284.1	324.0	363.9
90°	0.0	21.1	47.0	82.2	117.4	138.5	157.3	194.8	237.1	274.7	312.2
92.5°	4.7	23.5	51.6	84.5	119.7	140.9	159.6	197.2	237.1	274.7	312.2
95°	11.7	25.8	54.0	89.2	124.4	145.5	162.0	199.5	239.5	277.0	312.2
97.5°	21.1	32.9	61.0	93.9	129.1	147.9	166.7	204.2	241.8	279.4	314.6
100°	28.2	37.6	65.7	98.6	133.8	152.6	171.4	206.6	244.1	281.7	314.6
102.5°	35.2	47.0	72.8	103.3	138.5	157.3	173.7	208.9	246.5	281.7	314.6
105°	44.6	54.0	77.5	110.3	143.2	162.0	178.4	213.6	248.8	284.1	314.6
107.5°	54.0	61.0	84.5	115.0	147.9	164.3	180.8	216.0	251.2	284.1	314.6
110°	65.7	70.4	91.6	119.7	150.2	169.0	185.5	218.3	251.2	284.1	314.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	77.5	77.5	98.6	124.4	154.9	171.4	187.8	220.7	253.5	284.1	314.6
115°	86.9	89.2	105.6	129.1	159.6	176.1	190.2	220.7	253.5	284.1	312.2
117.5°	98.6	98.6	115.0	133.8	162.0	178.4	194.8	223.0	253.5	281.7	309.9
120°	110.3	108.0	122.1	140.9	166.7	180.8	197.2	225.4	253.5	281.7	307.5
122.5°	122.1	117.4	126.8	145.5	169.0	185.5	197.2	225.4	253.5	279.4	305.2
125°	131.5	126.8	133.8	152.6	173.7	187.8	199.5	225.4	253.5	277.0	302.8
127.5°	140.9	136.2	143.2	157.3	176.1	187.8	201.9	225.4	253.5	274.7	298.1
130°	150.2	143.2	152.6	162.0	180.8	190.2	201.9	225.4	251.2	272.3	293.4
132.5°	157.3	150.2	159.6	166.7	183.1	192.5	204.2	225.4	248.8	270.0	291.1
135°	162.0	154.9	166.7	171.4	187.8	197.2	206.6	225.4	246.5	267.6	286.4
137.5°	166.7	157.3	171.4	176.1	190.2	199.5	206.6	223.0	244.1	262.9	281.7
140°	169.0	162.0	176.1	180.8	187.8	197.2	206.6	220.7	239.5	258.2	274.7
142.5°	171.4	162.0	178.4	183.1	187.8	194.8	204.2	216.0	234.8	251.2	267.6
145°	171.4	164.3	178.4	183.1	187.8	192.5	199.5	213.6	227.7	241.8	258.2
147.5°	171.4	166.7	180.8	185.5	190.2	190.2	194.8	208.9	220.7	234.8	248.8
150°	173.7	166.7	180.8	185.5	192.5	192.5	194.8	201.9	216.0	225.4	237.1
152.5°	171.4	169.0	178.4	187.8	192.5	194.8	194.8	197.2	208.9	218.3	227.7
155°	173.7	173.7	180.8	192.5	194.8	194.8	197.2	194.8	199.5	208.9	218.3
157.5°	178.4	183.1	183.1	194.8	199.5	199.5	201.9	199.5	197.2	199.5	208.9
160°	185.5	190.2	190.2	197.2	204.2	204.2	206.6	204.2	201.9	199.5	199.5
162.5°	192.5	197.2	197.2	199.5	206.6	208.9	211.3	208.9	206.6	201.9	199.5
165°	199.5	204.2	204.2	204.2	208.9	211.3	213.6	211.3	211.3	206.6	204.2
167.5°	206.6	211.3	211.3	208.9	211.3	213.6	216.0	213.6	213.6	211.3	206.6
170°	213.6	218.3	218.3	213.6	216.0	216.0	218.3	216.0	216.0	211.3	208.9
172.5°	218.3	223.0	220.7	218.3	218.3	218.3	218.3	216.0	213.6	208.9	208.9
175°	220.7	225.4	225.4	220.7	218.3	218.3	220.7	216.0	213.6	211.3	206.6
177.5°	220.7	225.4	225.4	220.7	220.7	218.3	220.7	218.3	218.3	213.6	208.9
180°	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6
2.5°	2561.2	2558.8	2544.8	2561.2	2561.2	2556.5	2575.3	2572.9	2570.6	2565.9
5°	2551.8	2549.4	2535.4	2551.8	2551.8	2549.4	2568.2	2570.6	2572.9	2568.2
7.5°	2537.7	2535.4	2521.3	2537.7	2537.7	2535.4	2556.5	2558.8	2561.2	2554.1
10°	2516.6	2514.2	2500.1	2516.6	2518.9	2516.6	2533.0	2535.4	2540.1	2530.7
12.5°	2488.4	2488.4	2474.3	2490.8	2493.1	2490.8	2507.2	2511.9	2516.6	2504.8
15°	2453.2	2455.5	2443.8	2460.2	2462.6	2462.6	2479.0	2481.4	2488.4	2472.0
17.5°	2410.9	2415.6	2406.2	2422.7	2425.0	2427.4	2436.8	2443.8	2450.9	2432.1
20°	2366.3	2368.7	2361.6	2375.7	2380.4	2378.1	2389.8	2399.2	2406.2	2387.5
22.5°	2312.3	2314.7	2307.6	2321.7	2326.4	2328.8	2338.2	2349.9	2354.6	2338.2
25°	2251.3	2260.7	2256.0	2270.1	2274.8	2274.8	2284.2	2295.9	2303.0	2279.5
27.5°	2192.6	2204.4	2199.7	2213.7	2218.4	2220.8	2225.5	2239.6	2246.6	2225.5
30°	2126.9	2141.0	2138.6	2152.7	2157.4	2155.1	2164.4	2178.5	2187.9	2164.4
32.5°	2054.1	2072.9	2070.5	2089.3	2094.0	2096.4	2103.4	2122.2	2131.6	2110.5
35°	1983.7	2004.8	2007.2	2028.3	2035.3	2037.7	2047.1	2065.9	2075.2	2054.1
37.5°	1910.9	1939.1	1946.1	1967.3	1974.3	1976.6	1986.0	2007.2	2016.6	1995.4
40°	1840.5	1873.4	1882.7	1901.5	1908.6	1915.6	1922.6	1943.8	1955.5	1934.4
42.5°	1770.1	1805.3	1817.0	1835.8	1842.8	1849.9	1859.3	1882.7	1892.1	1873.4
45°	1697.3	1734.8	1748.9	1767.7	1777.1	1784.1	1793.5	1814.7	1826.4	1807.6
47.5°	1624.5	1662.1	1676.2	1697.3	1706.7	1716.1	1723.1	1748.9	1760.7	1741.9
50°	1547.0	1589.3	1605.7	1624.5	1638.6	1645.6	1655.0	1678.5	1690.2	1673.8
52.5°	1469.6	1514.2	1533.0	1551.7	1565.8	1577.6	1582.3	1608.1	1619.8	1603.4
55°	1389.8	1434.4	1455.5	1476.6	1490.7	1504.8	1509.5	1535.3	1547.0	1523.6
57.5°	1309.9	1356.9	1378.0	1401.5	1413.2	1429.7	1436.7	1460.2	1471.9	1455.5
60°	1230.1	1274.7	1300.5	1321.7	1338.1	1352.2	1356.9	1382.7	1394.4	1373.3
62.5°	1148.0	1194.9	1220.7	1244.2	1258.3	1274.7	1281.8	1305.2	1314.6	1293.5
65°	1063.4	1110.4	1138.6	1159.7	1178.5	1192.6	1197.3	1223.1	1232.5	1211.3
67.5°	978.9	1025.9	1056.4	1079.9	1096.3	1112.7	1117.4	1143.3	1152.7	1136.2
70°	896.8	943.7	974.2	1002.4	1014.1	1030.6	1037.6	1061.1	1070.5	1056.4
72.5°	814.6	861.6	894.4	922.6	934.3	950.8	960.2	978.9	993.0	981.3
75°	734.8	781.7	814.6	842.8	854.5	870.9	880.3	899.1	908.5	899.1
77.5°	657.3	704.3	734.8	763.0	777.0	791.1	800.5	819.3	831.0	821.6
80°	582.2	629.1	659.7	685.5	699.6	713.7	723.0	744.2	753.6	746.5
82.5°	511.8	556.4	589.2	615.1	629.1	643.2	652.6	671.4	683.1	673.7
85°	448.4	493.0	523.5	549.3	561.1	575.2	584.5	603.3	612.7	608.0
87.5°	387.3	427.3	462.5	488.3	500.0	514.1	525.9	539.9	551.7	544.6
90°	340.4	375.6	408.5	434.3	448.4	462.5	476.6	490.6	500.0	495.3
92.5°	342.7	375.6	406.1	429.6	443.7	457.8	471.9	488.3	495.3	490.6
95°	342.7	375.6	406.1	429.6	443.7	457.8	471.9	488.3	495.3	490.6
97.5°	342.7	375.6	406.1	429.6	443.7	457.8	471.9	488.3	495.3	488.3
100°	342.7	375.6	406.1	429.6	443.7	455.4	469.5	485.9	493.0	488.3
102.5°	342.7	375.6	403.8	427.3	441.3	453.1	467.2	483.6	490.6	485.9
105°	342.7	373.3	403.8	424.9	439.0	450.7	464.8	478.9	485.9	481.2
107.5°	340.4	370.9	399.1	422.6	434.3	446.0	460.1	474.2	481.2	476.6
110°	340.4	368.6	396.7	417.9	429.6	441.3	455.4	469.5	476.6	471.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	338.0	366.2	394.4	413.2	424.9	436.6	448.4	464.8	471.9	467.2
115°	335.7	363.9	389.7	408.5	420.2	429.6	443.7	460.1	464.8	462.5
117.5°	333.4	359.2	385.0	403.8	415.5	424.9	436.6	450.7	457.8	455.4
120°	331.0	354.5	380.3	396.7	408.5	417.9	427.3	441.3	448.4	443.7
122.5°	326.3	349.8	375.6	392.0	401.4	410.8	420.2	432.0	439.0	436.6
125°	321.6	345.1	368.6	385.0	394.4	401.4	410.8	422.6	427.3	424.9
127.5°	316.9	340.4	361.5	375.6	387.3	394.4	401.4	413.2	417.9	415.5
130°	312.2	333.4	354.5	368.6	378.0	385.0	392.0	403.8	406.1	406.1
132.5°	307.5	326.3	347.4	361.5	370.9	375.6	382.7	392.0	396.7	394.4
135°	302.8	319.3	340.4	352.1	359.2	366.2	373.3	382.7	385.0	385.0
137.5°	295.8	312.2	331.0	342.7	349.8	354.5	361.5	370.9	373.3	373.3
140°	288.7	305.2	321.6	331.0	340.4	345.1	349.8	359.2	361.5	361.5
142.5°	281.7	295.8	312.2	321.6	331.0	333.4	340.4	347.4	349.8	349.8
145°	272.3	288.7	302.8	312.2	319.3	321.6	328.7	335.7	335.7	338.0
147.5°	260.6	274.7	293.4	300.5	307.5	309.9	316.9	321.6	324.0	324.0
150°	248.8	262.9	279.4	291.1	298.1	300.5	302.8	309.9	309.9	312.2
152.5°	237.1	248.8	265.3	277.0	286.4	288.7	291.1	295.8	295.8	298.1
155°	225.4	234.8	248.8	260.6	270.0	274.7	279.4	284.1	284.1	286.4
157.5°	216.0	225.4	237.1	246.5	253.5	260.6	267.6	272.3	272.3	272.3
160°	204.2	211.3	223.0	230.1	239.5	244.1	255.9	260.6	260.6	262.9
162.5°	197.2	199.5	206.6	213.6	220.7	225.4	237.1	248.8	248.8	251.2
165°	199.5	197.2	199.5	201.9	206.6	208.9	216.0	232.4	237.1	239.5
167.5°	204.2	197.2	197.2	197.2	201.9	201.9	208.9	218.3	234.8	230.1
170°	204.2	197.2	192.5	192.5	194.8	192.5	197.2	204.2	213.6	223.0
172.5°	206.6	199.5	192.5	183.1	185.5	183.1	178.4	178.4	180.8	211.3
175°	204.2	199.5	190.2	178.4	176.1	169.0	154.9	143.2	136.2	105.6
177.5°	201.9	194.8	187.8	178.4	173.7	166.7	150.2	131.5	112.7	108.0
180°	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5	192.5



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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	15.39	16.71	16.00	17.34	18.06	18.02	19.34	18.63	19.97	20.69
	3H	16.79	17.99	17.42	18.63	19.39	20.48	21.68	21.11	22.32	23.08
	4H	17.22	18.36	17.87	19.01	19.78	21.65	22.78	22.29	23.44	24.21
	6H	17.46	18.51	18.12	19.18	19.96	22.83	23.88	23.49	24.55	25.33
	8H	17.50	18.51	18.17	19.20	19.98	23.42	24.43	24.09	25.12	25.91
	12H	17.51	18.48	18.19	19.16	19.98	24.05	25.02	24.73	25.70	26.52
4H	2H	16.29	17.43	16.94	18.08	18.85	18.36	19.50	19.01	20.15	20.92
	3H	17.91	18.88	18.58	19.57	20.36	21.02	21.99	21.69	22.68	23.47
	4H	18.47	19.35	19.15	20.05	20.87	22.34	23.23	23.02	23.92	24.74
	6H	18.81	19.58	19.50	20.30	21.13	23.69	24.47	24.39	25.19	26.02
	8H	18.88	19.61	19.58	20.33	21.17	24.38	25.11	25.09	25.83	26.67
	12H	18.91	19.57	19.64	20.32	21.16	25.13	25.80	25.86	26.54	27.39
8H	4H	19.13	19.86	19.83	20.58	21.42	22.49	23.22	23.19	23.94	24.78
	6H	19.63	20.25	20.37	21.01	21.85	23.98	24.60	24.72	25.36	26.20
	8H	19.79	20.34	20.53	21.11	21.96	24.79	25.35	25.54	26.11	26.97
	12H	19.88	20.37	20.63	21.13	22.04	25.70	26.20	26.45	26.95	27.87
12H	4H	19.30	19.96	20.03	20.71	21.55	22.48	23.14	23.20	23.89	24.73
	6H	19.90	20.46	20.64	21.22	22.08	24.00	24.56	24.74	25.32	26.17
	8H	20.13	20.63	20.88	21.38	22.30	24.86	25.35	25.61	26.11	27.02