

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: P894507

Luminaire Tested: 8TMB-12SL-FLTU-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894507
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-12SL-FLTU-UNV-L940
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 40
Light Source: -
Ballast/Driver: -

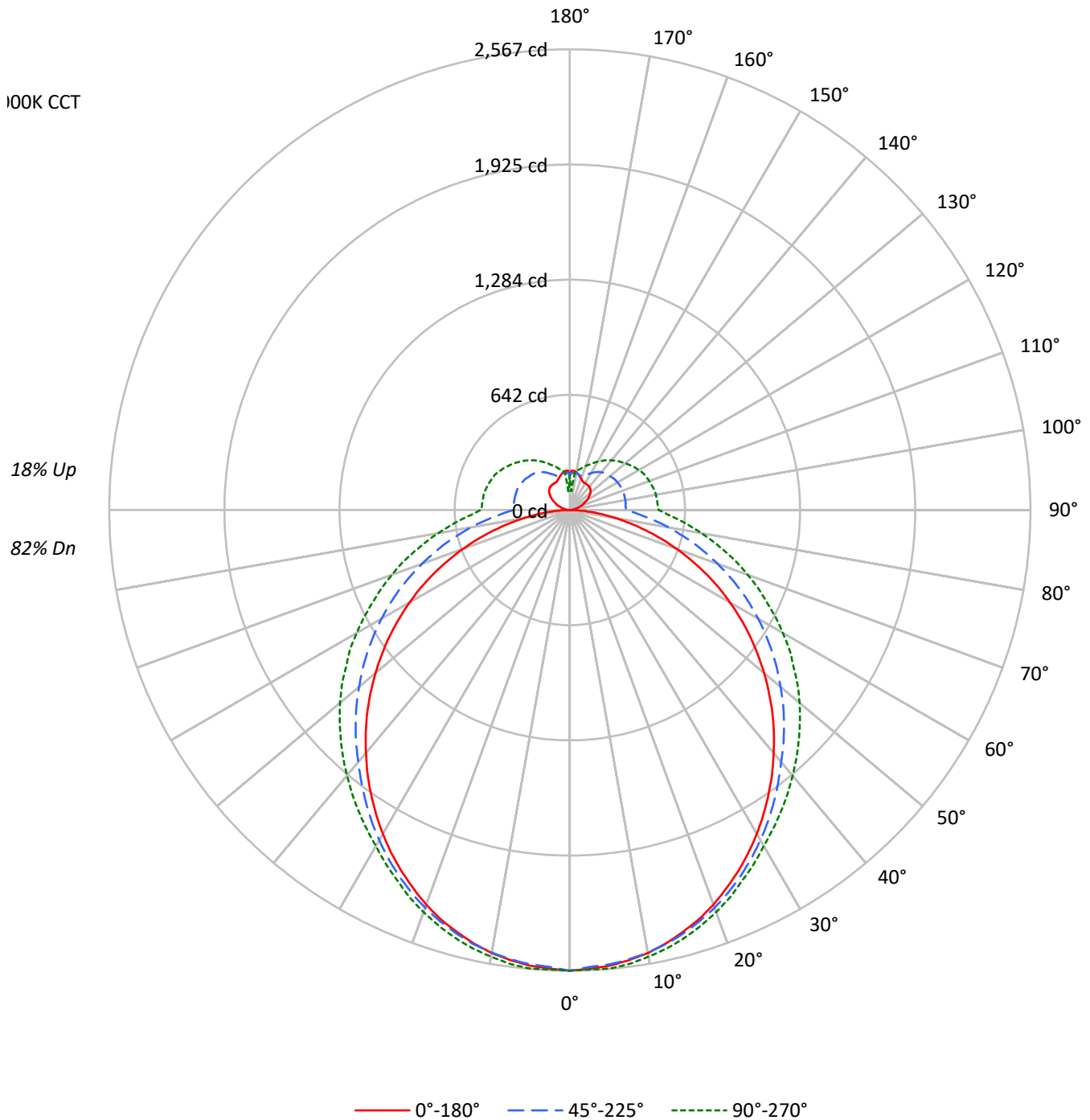
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9705.0 lumens
Efficiency: N/A
Efficacy: 109.3 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): 88.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.53
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-12SL-FLTU-UNV-L940

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°	9108	9108	9108
5°	9056	8741	8717
10°	8988	8418	8303
15°	8877	8093	7907
20°	8751	7759	7506
25°	8587	7409	7098
30°	8412	7050	6728
35°	8217	6690	6422
40°	8012	6334	6129
45°	7807	6025	5852
50°	7568	5704	5582
55°	7312	5389	5280
60°	7003	5051	4993
65°	6635	4693	4669
70°	6149	4300	4368
75°	5476	3898	4043
80°	4590	3467	3709
85°	3455	3030	3403

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7807 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	2.5
10°-20°	692.4	7.1
20°-30°	1040.3	10.7
30°-40°	1249.1	12.9
40°-50°	1313.5	13.5
50°-60°	1234.1	12.7
60°-70°	1026.2	10.6
70°-80°	732.3	7.5
80°-90°	435.9	4.5
90°-100°	315.5	3.3
100°-110°	311.3	3.2
110°-120°	292.4	3.0
120°-130°	259.1	2.7
130°-140°	214.7	2.2
140°-150°	160.7	1.7
150°-160°	105.7	1.1
160°-170°	60.0	0.6
170°-180°	19.1	0.2
0°-30°	1975.4	20.4
0°-40°	3224.5	33.2
0°-60°	5772.1	59.5
0°-90°	7966.3	82.1
90°-120°	919.3	9.5
90°-150°	1553.9	16.0
90°-180°	1739.0	17.9
0°-180°	9705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2548	2579	2541	2548	2565	242
15°	2434	2471	2443	2459	2469	687
25°	2220	2262	2251	2272	2276	1023
35°	1932	1976	1983	2033	2051	1208
45°	1596	1641	1688	1775	1805	1231
55°	1226	1275	1376	1489	1522	1095
65°	835	903	1046	1177	1210	826
75°	438	537	715	853	898	466
85°	110	242	420	560	607	121
90°	0	138	312	448	495	8
95°	12	145	312	443	490	13
105°	44	162	314	438	481	48
115°	87	176	312	420	462	87
125°	131	188	302	394	424	117
135°	162	197	286	359	384	125
145°	171	192	258	319	338	107
155°	174	195	218	270	286	81
165°	199	211	204	206	239	56
175°	220	218	206	176	106	21
180°	192	192	192	192	192	



TEST NUMBER: P894507
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1
2.5°	2557.8	2564.8	2567.1	2590.6	2581.2	2590.6	2574.2	2555.4	2550.7	2562.4	2548.4
5°	2548.4	2555.4	2557.8	2581.2	2571.8	2578.9	2564.8	2546.0	2541.3	2555.4	2541.3
7.5°	2529.6	2536.7	2539.0	2564.8	2553.1	2562.4	2546.0	2527.3	2524.9	2539.0	2524.9
10°	2506.2	2513.2	2515.6	2539.0	2529.6	2539.0	2522.6	2503.8	2501.5	2517.9	2503.8
12.5°	2473.4	2480.4	2485.1	2508.5	2496.8	2508.5	2489.8	2471.0	2473.4	2487.4	2478.0
15°	2433.5	2442.9	2445.2	2468.7	2459.3	2471.0	2452.3	2433.5	2438.2	2452.3	2442.9
17.5°	2391.3	2400.7	2403.0	2424.1	2414.7	2428.8	2407.7	2391.3	2396.0	2410.1	2403.0
20°	2339.7	2349.1	2353.8	2374.9	2365.5	2379.6	2358.5	2344.4	2349.1	2365.5	2358.5
22.5°	2281.1	2295.2	2297.5	2321.0	2309.3	2323.3	2302.2	2290.5	2297.5	2313.9	2306.9
25°	2220.2	2234.2	2236.6	2260.0	2250.6	2262.4	2241.3	2229.5	2238.9	2255.3	2250.6
27.5°	2154.5	2168.6	2173.3	2194.4	2185.0	2199.1	2175.6	2168.6	2178.0	2194.4	2189.7
30°	2084.2	2098.3	2100.6	2121.7	2114.7	2128.7	2107.6	2098.3	2112.3	2128.7	2124.0
32.5°	2009.2	2023.2	2030.3	2049.0	2042.0	2053.7	2035.0	2030.3	2042.0	2058.4	2056.1
35°	1931.8	1945.9	1952.9	1974.0	1964.6	1976.3	1957.6	1952.9	1971.7	1983.4	1983.4
37.5°	1852.1	1866.2	1873.2	1894.3	1882.6	1896.6	1877.9	1875.5	1896.6	1908.4	1908.4
40°	1767.7	1784.1	1791.1	1809.9	1800.5	1812.2	1795.8	1798.2	1816.9	1831.0	1833.3
42.5°	1683.3	1699.7	1706.7	1727.8	1716.1	1727.8	1713.8	1716.1	1737.2	1751.3	1763.0
45°	1596.5	1610.6	1617.6	1641.1	1627.0	1641.1	1627.0	1631.7	1652.8	1673.9	1688.0
47.5°	1505.1	1519.2	1530.9	1549.7	1537.9	1549.7	1540.3	1547.3	1573.1	1594.2	1613.0
50°	1413.7	1427.8	1439.5	1455.9	1444.2	1460.6	1448.8	1458.2	1491.0	1512.1	1533.2
52.5°	1319.9	1331.6	1350.4	1359.8	1350.4	1369.1	1359.8	1373.8	1406.7	1432.4	1455.9
55°	1226.1	1237.9	1256.6	1263.6	1254.3	1275.4	1268.3	1287.1	1322.3	1350.4	1376.2
57.5°	1130.0	1141.7	1158.1	1165.2	1158.1	1181.6	1179.2	1200.3	1235.5	1266.0	1294.1
60°	1031.5	1043.3	1057.3	1064.4	1064.4	1087.8	1087.8	1113.6	1151.1	1179.2	1212.1
62.5°	935.4	942.5	956.5	965.9	972.9	996.4	996.4	1024.5	1064.4	1097.2	1130.0
65°	834.6	841.6	853.4	865.1	876.8	902.6	904.9	935.4	975.3	1008.1	1045.6
67.5°	733.8	740.8	752.6	766.6	783.0	808.8	813.5	846.3	888.5	926.0	961.2
70°	635.3	637.7	651.7	670.5	689.3	715.0	722.1	757.2	801.8	839.3	876.8
72.5°	536.9	539.2	553.3	576.7	597.8	626.0	635.3	672.8	717.4	754.9	792.4
75°	438.4	440.8	459.5	487.6	511.1	536.9	548.6	588.4	633.0	672.8	715.0
77.5°	344.6	349.3	368.1	396.2	424.3	454.8	466.5	506.4	555.6	593.1	633.0
80°	257.9	262.6	283.7	314.2	344.6	372.8	386.8	426.7	478.3	515.8	560.3
82.5°	178.2	185.2	211.0	243.8	274.3	304.8	318.8	356.4	403.2	445.4	487.6
85°	110.2	119.6	145.4	180.5	213.3	241.5	255.5	295.4	339.9	379.8	419.7
87.5°	51.6	65.6	91.4	126.6	161.8	185.2	201.6	241.5	283.7	323.5	363.4
90°	0.0	21.1	46.9	82.1	117.2	138.3	157.1	194.6	236.8	274.3	311.8
92.5°	4.7	23.4	51.6	84.4	119.6	140.7	159.4	196.9	236.8	274.3	311.8
95°	11.7	25.8	53.9	89.1	124.3	145.4	161.8	199.3	239.1	276.6	311.8
97.5°	21.1	32.8	61.0	93.8	128.9	147.7	166.5	204.0	241.5	279.0	314.2
100°	28.1	37.5	65.6	98.5	133.6	152.4	171.1	206.3	243.8	281.3	314.2
102.5°	35.2	46.9	72.7	103.2	138.3	157.1	173.5	208.7	246.2	281.3	314.2
105°	44.5	53.9	77.4	110.2	143.0	161.8	178.2	213.3	248.5	283.7	314.2
107.5°	53.9	61.0	84.4	114.9	147.7	164.1	180.5	215.7	250.9	283.7	314.2
110°	65.6	70.3	91.4	119.6	150.0	168.8	185.2	218.0	250.9	283.7	314.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	77.4	77.4	98.5	124.3	154.7	171.1	187.6	220.4	253.2	283.7	314.2
115°	86.7	89.1	105.5	128.9	159.4	175.8	189.9	220.4	253.2	283.7	311.8
117.5°	98.5	98.5	114.9	133.6	161.8	178.2	194.6	222.7	253.2	281.3	309.5
120°	110.2	107.8	121.9	140.7	166.5	180.5	196.9	225.1	253.2	281.3	307.1
122.5°	121.9	117.2	126.6	145.4	168.8	185.2	196.9	225.1	253.2	279.0	304.8
125°	131.3	126.6	133.6	152.4	173.5	187.6	199.3	225.1	253.2	276.6	302.4
127.5°	140.7	136.0	143.0	157.1	175.8	187.6	201.6	225.1	253.2	274.3	297.7
130°	150.0	143.0	152.4	161.8	180.5	189.9	201.6	225.1	250.9	272.0	293.1
132.5°	157.1	150.0	159.4	166.5	182.9	192.2	204.0	225.1	248.5	269.6	290.7
135°	161.8	154.7	166.5	171.1	187.6	196.9	206.3	225.1	246.2	267.3	286.0
137.5°	166.5	157.1	171.1	175.8	189.9	199.3	206.3	222.7	243.8	262.6	281.3
140°	168.8	161.8	175.8	180.5	187.6	196.9	206.3	220.4	239.1	257.9	274.3
142.5°	171.1	161.8	178.2	182.9	187.6	194.6	204.0	215.7	234.4	250.9	267.3
145°	171.1	164.1	178.2	182.9	187.6	192.2	199.3	213.3	227.4	241.5	257.9
147.5°	171.1	166.5	180.5	185.2	189.9	189.9	194.6	208.7	220.4	234.4	248.5
150°	173.5	166.5	180.5	185.2	192.2	192.2	194.6	201.6	215.7	225.1	236.8
152.5°	171.1	168.8	178.2	187.6	192.2	194.6	194.6	196.9	208.7	218.0	227.4
155°	173.5	173.5	180.5	192.2	194.6	194.6	196.9	194.6	199.3	208.7	218.0
157.5°	178.2	182.9	182.9	194.6	199.3	199.3	201.6	199.3	196.9	199.3	208.7
160°	185.2	189.9	189.9	196.9	204.0	204.0	206.3	204.0	201.6	199.3	199.3
162.5°	192.2	196.9	196.9	199.3	206.3	208.7	211.0	208.7	206.3	201.6	199.3
165°	199.3	204.0	204.0	204.0	208.7	211.0	213.3	211.0	211.0	206.3	204.0
167.5°	206.3	211.0	211.0	208.7	211.0	213.3	215.7	213.3	213.3	211.0	206.3
170°	213.3	218.0	218.0	213.3	215.7	215.7	218.0	215.7	215.7	211.0	208.7
172.5°	218.0	222.7	220.4	218.0	218.0	218.0	218.0	215.7	213.3	208.7	208.7
175°	220.4	225.1	225.1	220.4	218.0	218.0	220.4	215.7	213.3	211.0	206.3
177.5°	220.4	225.1	225.1	220.4	220.4	218.0	220.4	218.0	218.0	213.3	208.7
180°	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1
2.5°	2557.8	2555.4	2541.3	2557.8	2557.8	2553.1	2571.8	2569.5	2567.1	2562.4
5°	2548.4	2546.0	2532.0	2548.4	2548.4	2546.0	2564.8	2567.1	2569.5	2564.8
7.5°	2534.3	2532.0	2517.9	2534.3	2534.3	2532.0	2553.1	2555.4	2557.8	2550.7
10°	2513.2	2510.9	2496.8	2513.2	2515.6	2513.2	2529.6	2532.0	2536.7	2527.3
12.5°	2485.1	2485.1	2471.0	2487.4	2489.8	2487.4	2503.8	2508.5	2513.2	2501.5
15°	2449.9	2452.3	2440.5	2456.9	2459.3	2459.3	2475.7	2478.0	2485.1	2468.7
17.5°	2407.7	2412.4	2403.0	2419.4	2421.8	2424.1	2433.5	2440.5	2447.6	2428.8
20°	2363.2	2365.5	2358.5	2372.6	2377.2	2374.9	2386.6	2396.0	2403.0	2384.3
22.5°	2309.3	2311.6	2304.6	2318.6	2323.3	2325.7	2335.0	2346.8	2351.5	2335.0
25°	2248.3	2257.7	2253.0	2267.1	2271.7	2271.7	2281.1	2292.8	2299.9	2276.4
27.5°	2189.7	2201.4	2196.7	2210.8	2215.5	2217.8	2222.5	2236.6	2243.6	2222.5
30°	2124.0	2138.1	2135.8	2149.8	2154.5	2152.2	2161.6	2175.6	2185.0	2161.6
32.5°	2051.4	2070.1	2067.8	2086.5	2091.2	2093.6	2100.6	2119.4	2128.7	2107.6
35°	1981.0	2002.1	2004.5	2025.6	2032.6	2035.0	2044.3	2063.1	2072.5	2051.4
37.5°	1908.4	1936.5	1943.5	1964.6	1971.7	1974.0	1983.4	2004.5	2013.9	1992.8
40°	1838.0	1870.8	1880.2	1899.0	1906.0	1913.0	1920.1	1941.2	1952.9	1931.8
42.5°	1767.7	1802.9	1814.6	1833.3	1840.4	1847.4	1856.8	1880.2	1889.6	1870.8
45°	1695.0	1732.5	1746.6	1765.3	1774.7	1781.8	1791.1	1812.2	1824.0	1805.2
47.5°	1622.3	1659.8	1673.9	1695.0	1704.4	1713.8	1720.8	1746.6	1758.3	1739.6
50°	1545.0	1587.2	1603.6	1622.3	1636.4	1643.4	1652.8	1676.3	1688.0	1671.6
52.5°	1467.6	1512.1	1530.9	1549.7	1563.7	1575.4	1580.1	1605.9	1617.6	1601.2
55°	1387.9	1432.4	1453.5	1474.6	1488.7	1502.8	1507.5	1533.2	1545.0	1521.5
57.5°	1308.2	1355.1	1376.2	1399.6	1411.3	1427.8	1434.8	1458.2	1469.9	1453.5
60°	1228.5	1273.0	1298.8	1319.9	1336.3	1350.4	1355.1	1380.9	1392.6	1371.5
62.5°	1146.4	1193.3	1219.1	1242.5	1256.6	1273.0	1280.1	1303.5	1312.9	1291.8
65°	1062.0	1108.9	1137.0	1158.1	1176.9	1191.0	1195.7	1221.4	1230.8	1209.7
67.5°	977.6	1024.5	1055.0	1078.4	1094.8	1111.3	1115.9	1141.7	1151.1	1134.7
70°	895.6	942.5	972.9	1001.1	1012.8	1029.2	1036.2	1059.7	1069.1	1055.0
72.5°	813.5	860.4	893.2	921.4	933.1	949.5	958.9	977.6	991.7	980.0
75°	733.8	780.7	813.5	841.6	853.4	869.8	879.2	897.9	907.3	897.9
77.5°	656.4	703.3	733.8	761.9	776.0	790.1	799.4	818.2	829.9	820.5
80°	581.4	628.3	658.8	684.6	698.6	712.7	722.1	743.2	752.6	745.5
82.5°	511.1	555.6	588.4	614.2	628.3	642.4	651.7	670.5	682.2	672.8
85°	447.8	492.3	522.8	548.6	560.3	574.4	583.8	602.5	611.9	607.2
87.5°	386.8	426.7	461.9	487.6	499.4	513.4	525.1	539.2	550.9	543.9
90°	339.9	375.1	407.9	433.7	447.8	461.9	475.9	490.0	499.4	494.7
92.5°	342.3	375.1	405.6	429.0	443.1	457.2	471.2	487.6	494.7	490.0
95°	342.3	375.1	405.6	429.0	443.1	457.2	471.2	487.6	494.7	490.0
97.5°	342.3	375.1	405.6	429.0	443.1	457.2	471.2	487.6	494.7	487.6
100°	342.3	375.1	405.6	429.0	443.1	454.8	468.9	485.3	492.3	487.6
102.5°	342.3	375.1	403.2	426.7	440.8	452.5	466.5	482.9	490.0	485.3
105°	342.3	372.8	403.2	424.3	438.4	450.1	464.2	478.3	485.3	480.6
107.5°	339.9	370.4	398.6	422.0	433.7	445.4	459.5	473.6	480.6	475.9
110°	339.9	368.1	396.2	417.3	429.0	440.8	454.8	468.9	475.9	471.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	337.6	365.7	393.9	412.6	424.3	436.1	447.8	464.2	471.2	466.5
115°	335.3	363.4	389.2	407.9	419.7	429.0	443.1	459.5	464.2	461.9
117.5°	332.9	358.7	384.5	403.2	415.0	424.3	436.1	450.1	457.2	454.8
120°	330.6	354.0	379.8	396.2	407.9	417.3	426.7	440.8	447.8	443.1
122.5°	325.9	349.3	375.1	391.5	400.9	410.3	419.7	431.4	438.4	436.1
125°	321.2	344.6	368.1	384.5	393.9	400.9	410.3	422.0	426.7	424.3
127.5°	316.5	339.9	361.0	375.1	386.8	393.9	400.9	412.6	417.3	415.0
130°	311.8	332.9	354.0	368.1	377.5	384.5	391.5	403.2	405.6	405.6
132.5°	307.1	325.9	347.0	361.0	370.4	375.1	382.1	391.5	396.2	393.9
135°	302.4	318.8	339.9	351.7	358.7	365.7	372.8	382.1	384.5	384.5
137.5°	295.4	311.8	330.6	342.3	349.3	354.0	361.0	370.4	372.8	372.8
140°	288.4	304.8	321.2	330.6	339.9	344.6	349.3	358.7	361.0	361.0
142.5°	281.3	295.4	311.8	321.2	330.6	332.9	339.9	347.0	349.3	349.3
145°	272.0	288.4	302.4	311.8	318.8	321.2	328.2	335.3	335.3	337.6
147.5°	260.2	274.3	293.1	300.1	307.1	309.5	316.5	321.2	323.5	323.5
150°	248.5	262.6	279.0	290.7	297.7	300.1	302.4	309.5	309.5	311.8
152.5°	236.8	248.5	264.9	276.6	286.0	288.4	290.7	295.4	295.4	297.7
155°	225.1	234.4	248.5	260.2	269.6	274.3	279.0	283.7	283.7	286.0
157.5°	215.7	225.1	236.8	246.2	253.2	260.2	267.3	272.0	272.0	272.0
160°	204.0	211.0	222.7	229.8	239.1	243.8	255.5	260.2	260.2	262.6
162.5°	196.9	199.3	206.3	213.3	220.4	225.1	236.8	248.5	248.5	250.9
165°	199.3	196.9	199.3	201.6	206.3	208.7	215.7	232.1	236.8	239.1
167.5°	204.0	196.9	196.9	196.9	201.6	201.6	208.7	218.0	234.4	229.8
170°	204.0	196.9	192.2	192.2	194.6	192.2	196.9	204.0	213.3	222.7
172.5°	206.3	199.3	192.2	182.9	185.2	182.9	178.2	178.2	180.5	211.0
175°	204.0	199.3	189.9	178.2	175.8	168.8	154.7	143.0	136.0	105.5
177.5°	201.6	194.6	187.6	178.2	173.5	166.5	150.0	131.3	112.5	107.8
180°	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2



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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	15.38	16.70	16.00	17.34	18.06	18.01	19.33	18.63	19.97	20.69
	3H	16.79	17.99	17.42	18.63	19.39	20.47	21.67	21.10	22.32	23.07
	4H	17.21	18.35	17.86	19.01	19.78	21.64	22.78	22.29	23.43	24.20
	6H	17.45	18.51	18.11	19.17	19.96	22.82	23.88	23.48	24.54	25.33
	8H	17.49	18.51	18.17	19.19	19.98	23.41	24.43	24.09	25.11	25.90
	12H	17.50	18.47	18.18	19.15	19.97	24.05	25.02	24.73	25.70	26.51
4H	2H	16.29	17.42	16.94	18.08	18.85	18.36	19.49	19.01	20.15	20.92
	3H	17.91	18.88	18.57	19.57	20.36	21.02	21.99	21.68	22.68	23.47
	4H	18.46	19.35	19.14	20.04	20.86	22.34	23.22	23.02	23.92	24.74
	6H	18.80	19.58	19.50	20.30	21.13	23.69	24.47	24.39	25.19	26.01
	8H	18.88	19.61	19.58	20.33	21.17	24.38	25.11	25.08	25.83	26.67
	12H	18.91	19.57	19.63	20.31	21.16	25.13	25.79	25.85	26.54	27.38
8H	4H	19.13	19.86	19.83	20.58	21.42	22.48	23.22	23.19	23.93	24.78
	6H	19.63	20.25	20.36	21.01	21.85	23.98	24.60	24.71	25.36	26.20
	8H	19.78	20.34	20.53	21.10	21.96	24.79	25.34	25.53	26.11	26.96
	12H	19.87	20.37	20.62	21.12	22.04	25.70	26.19	26.45	26.95	27.86
12H	4H	19.30	19.96	20.02	20.70	21.55	22.47	23.14	23.20	23.88	24.73
	6H	19.90	20.45	20.64	21.21	22.07	23.99	24.55	24.74	25.31	26.17
	8H	20.13	20.62	20.88	21.38	22.29	24.86	25.35	25.60	26.10	27.02