

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: P894505

Luminaire Tested: 8TMB-12SL-FLTU-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894505
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-L930
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 30
Light Source: -
Ballast/Driver: -

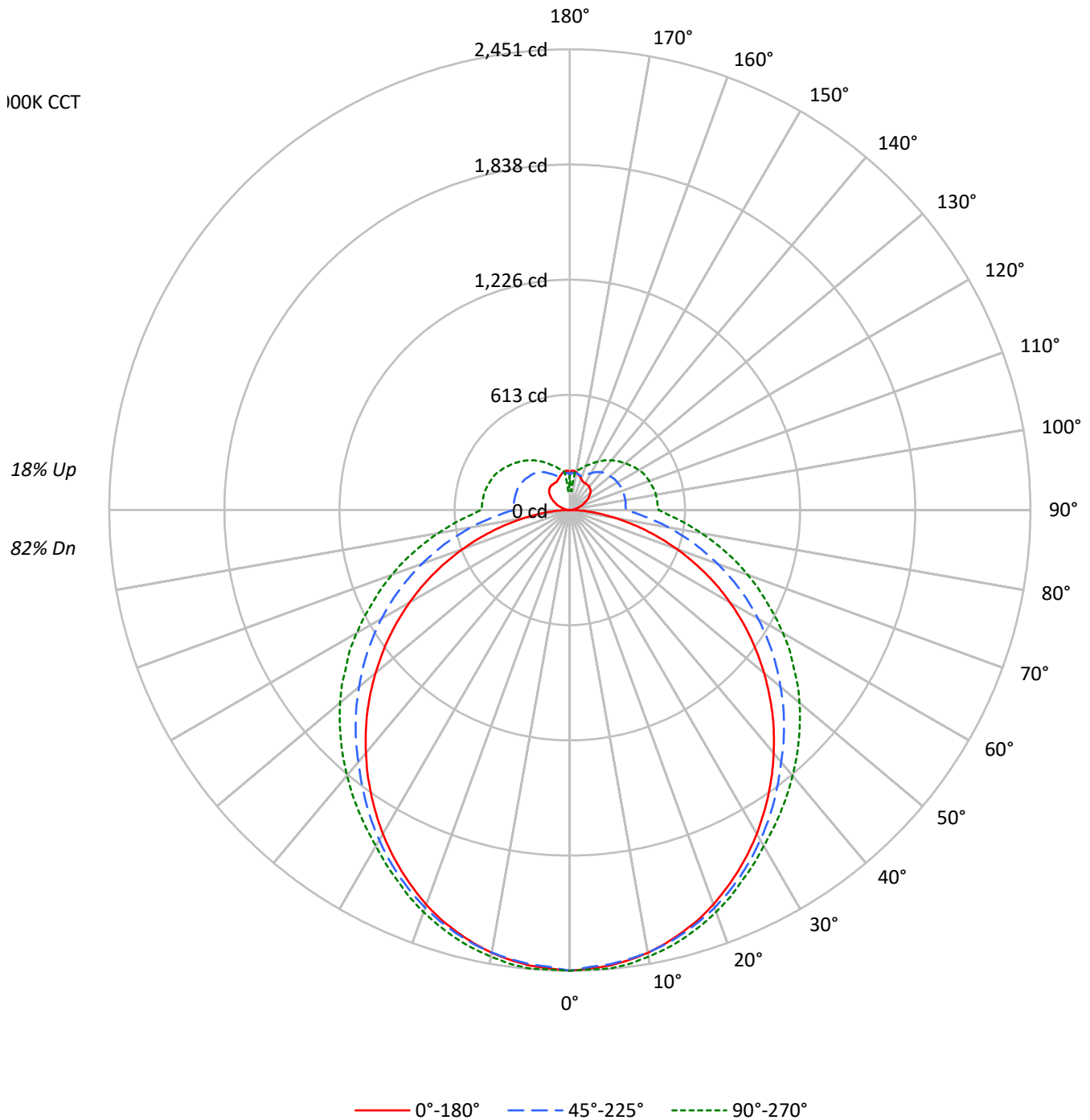
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9265.0 lumens
Efficiency: N/A
Efficacy: 104.3 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 (Ain): 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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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°	8695	8695	8695
5°	8645	8345	8322
10°	8581	8037	7927
15°	8475	7726	7549
20°	8355	7407	7166
25°	8198	7073	6776
30°	8031	6730	6423
35°	7845	6386	6131
40°	7649	6047	5852
45°	7454	5752	5587
50°	7225	5445	5329
55°	6980	5145	5041
60°	6686	4821	4767
65°	6335	4480	4458
70°	5871	4106	4170
75°	5228	3721	3859
80°	4382	3310	3540
85°	3298	2892	3249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7454 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	2.5
10°-20°	661.0	7.1
20°-30°	993.1	10.7
30°-40°	1192.5	12.9
40°-50°	1253.9	13.5
50°-60°	1178.1	12.7
60°-70°	979.7	10.6
70°-80°	699.1	7.5
80°-90°	416.1	4.5
90°-100°	301.2	3.3
100°-110°	297.2	3.2
110°-120°	279.2	3.0
120°-130°	247.4	2.7
130°-140°	205.0	2.2
140°-150°	153.5	1.7
150°-160°	100.9	1.1
160°-170°	57.2	0.6
170°-180°	18.2	0.2
0°-30°	1885.8	20.4
0°-40°	3078.3	33.2
0°-60°	5510.4	59.5
0°-90°	7605.2	82.1
90°-120°	877.6	9.5
90°-150°	1483.4	16.0
90°-180°	1660.0	17.9
0°-180°	9265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2451	2451	2451	2451	2451	
5°	2433	2462	2426	2433	2448	231
15°	2323	2359	2332	2348	2357	655
25°	2120	2160	2149	2169	2173	976
35°	1844	1887	1894	1940	1958	1154
45°	1524	1567	1612	1694	1723	1175
55°	1170	1218	1314	1421	1452	1046
65°	797	862	998	1124	1155	788
75°	418	512	683	815	857	445
85°	105	230	401	535	580	115
90°	0	132	298	428	472	7
95°	11	139	298	423	468	13
105°	42	154	300	418	459	45
115°	83	168	298	401	441	83
125°	125	179	289	376	405	112
135°	154	188	273	342	367	119
145°	163	184	246	304	322	103
155°	166	186	208	257	273	77
165°	190	201	195	197	228	54
175°	210	208	197	168	101	20
180°	184	184	184	184	184	



TEST NUMBER: P894505
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7
2.5°	2441.8	2448.5	2450.7	2473.1	2464.2	2473.1	2457.5	2439.6	2435.1	2446.3	2432.8
5°	2432.8	2439.6	2441.8	2464.2	2455.2	2461.9	2448.5	2430.6	2426.1	2439.6	2426.1
7.5°	2414.9	2421.7	2423.9	2448.5	2437.3	2446.3	2430.6	2412.7	2410.5	2423.9	2410.5
10°	2392.6	2399.3	2401.5	2423.9	2414.9	2423.9	2408.2	2390.3	2388.1	2403.7	2390.3
12.5°	2361.2	2367.9	2372.4	2394.8	2383.6	2394.8	2376.9	2359.0	2361.2	2374.7	2365.7
15°	2323.2	2332.1	2334.4	2356.7	2347.8	2359.0	2341.1	2323.2	2327.7	2341.1	2332.1
17.5°	2282.9	2291.8	2294.1	2314.2	2305.3	2318.7	2298.6	2282.9	2287.4	2300.8	2294.1
20°	2233.7	2242.6	2247.1	2267.2	2258.3	2271.7	2251.6	2238.1	2242.6	2258.3	2251.6
22.5°	2177.7	2191.1	2193.4	2215.7	2204.6	2218.0	2197.8	2186.7	2193.4	2209.0	2202.3
25°	2119.5	2132.9	2135.2	2157.6	2148.6	2159.8	2139.6	2128.5	2137.4	2153.1	2148.6
27.5°	2056.8	2070.3	2074.7	2094.9	2085.9	2099.4	2077.0	2070.3	2079.2	2094.9	2090.4
30°	1989.7	2003.1	2005.4	2025.5	2018.8	2032.2	2012.1	2003.1	2016.6	2032.2	2027.7
32.5°	1918.1	1931.5	1938.2	1956.1	1949.4	1960.6	1942.7	1938.2	1949.4	1965.1	1962.8
35°	1844.2	1857.6	1864.4	1884.5	1875.6	1886.7	1868.8	1864.4	1882.3	1893.5	1893.5
37.5°	1768.1	1781.5	1788.3	1808.4	1797.2	1810.6	1792.7	1790.5	1810.6	1821.8	1821.8
40°	1687.5	1703.2	1709.9	1727.8	1718.9	1730.1	1714.4	1716.6	1734.5	1748.0	1750.2
42.5°	1607.0	1622.6	1629.4	1649.5	1638.3	1649.5	1636.1	1638.3	1658.5	1671.9	1683.1
45°	1524.2	1537.6	1544.3	1566.7	1553.3	1566.7	1553.3	1557.7	1577.9	1598.0	1611.5
47.5°	1436.9	1450.3	1461.5	1479.4	1468.2	1479.4	1470.4	1477.2	1501.8	1521.9	1539.8
50°	1349.6	1363.0	1374.2	1389.9	1378.7	1394.4	1383.2	1392.1	1423.4	1443.6	1463.7
52.5°	1260.1	1271.3	1289.2	1298.1	1289.2	1307.1	1298.1	1311.5	1342.9	1367.5	1389.9
55°	1170.5	1181.7	1199.6	1206.4	1197.4	1217.5	1210.8	1228.7	1262.3	1289.2	1313.8
57.5°	1078.8	1090.0	1105.6	1112.3	1105.6	1128.0	1125.8	1145.9	1179.5	1208.6	1235.4
60°	984.8	996.0	1009.4	1016.1	1016.1	1038.5	1038.5	1063.1	1098.9	1125.8	1157.1
62.5°	893.0	899.7	913.2	922.1	928.8	951.2	951.2	978.1	1016.1	1047.4	1078.8
65°	796.8	803.5	814.7	825.9	837.1	861.7	863.9	893.0	931.1	962.4	998.2
67.5°	700.5	707.2	718.4	731.9	747.5	772.2	776.6	808.0	848.3	884.1	917.6
70°	606.5	608.8	622.2	640.1	658.0	682.6	689.3	722.9	765.4	801.2	837.1
72.5°	512.5	514.8	528.2	550.6	570.7	597.6	606.5	642.3	684.9	720.7	756.5
75°	418.5	420.8	438.7	465.5	487.9	512.5	523.7	561.8	604.3	642.3	682.6
77.5°	329.0	333.5	351.4	378.2	405.1	434.2	445.4	483.4	530.4	566.2	604.3
80°	246.2	250.7	270.8	299.9	329.0	355.9	369.3	407.3	456.6	492.4	534.9
82.5°	170.1	176.8	201.4	232.8	261.9	291.0	304.4	340.2	385.0	425.2	465.5
85°	105.2	114.1	138.8	172.3	203.7	230.5	244.0	282.0	324.5	362.6	400.6
87.5°	49.2	62.7	87.3	120.9	154.4	176.8	192.5	230.5	270.8	308.9	346.9
90°	0.0	20.1	44.8	78.3	111.9	132.0	150.0	185.8	226.1	261.9	297.7
92.5°	4.5	22.4	49.2	80.6	114.1	134.3	152.2	188.0	226.1	261.9	297.7
95°	11.2	24.6	51.5	85.0	118.6	138.8	154.4	190.2	228.3	264.1	297.7
97.5°	20.1	31.3	58.2	89.5	123.1	141.0	158.9	194.7	230.5	266.3	299.9
100°	26.9	35.8	62.7	94.0	127.6	145.5	163.4	197.0	232.8	268.6	299.9
102.5°	33.6	44.8	69.4	98.5	132.0	150.0	165.6	199.2	235.0	268.6	299.9
105°	42.5	51.5	73.9	105.2	136.5	154.4	170.1	203.7	237.2	270.8	299.9
107.5°	51.5	58.2	80.6	109.7	141.0	156.7	172.3	205.9	239.5	270.8	299.9
110°	62.7	67.1	87.3	114.1	143.2	161.1	176.8	208.1	239.5	270.8	299.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	73.9	73.9	94.0	118.6	147.7	163.4	179.1	210.4	241.7	270.8	299.9
115°	82.8	85.0	100.7	123.1	152.2	167.9	181.3	210.4	241.7	270.8	297.7
117.5°	94.0	94.0	109.7	127.6	154.4	170.1	185.8	212.6	241.7	268.6	295.4
120°	105.2	103.0	116.4	134.3	158.9	172.3	188.0	214.9	241.7	268.6	293.2
122.5°	116.4	111.9	120.9	138.8	161.1	176.8	188.0	214.9	241.7	266.3	291.0
125°	125.3	120.9	127.6	145.5	165.6	179.1	190.2	214.9	241.7	264.1	288.7
127.5°	134.3	129.8	136.5	150.0	167.9	179.1	192.5	214.9	241.7	261.9	284.2
130°	143.2	136.5	145.5	154.4	172.3	181.3	192.5	214.9	239.5	259.6	279.8
132.5°	150.0	143.2	152.2	158.9	174.6	183.5	194.7	214.9	237.2	257.4	277.5
135°	154.4	147.7	158.9	163.4	179.1	188.0	197.0	214.9	235.0	255.1	273.1
137.5°	158.9	150.0	163.4	167.9	181.3	190.2	197.0	212.6	232.8	250.7	268.6
140°	161.1	154.4	167.9	172.3	179.1	188.0	197.0	210.4	228.3	246.2	261.9
142.5°	163.4	154.4	170.1	174.6	179.1	185.8	194.7	205.9	223.8	239.5	255.1
145°	163.4	156.7	170.1	174.6	179.1	183.5	190.2	203.7	217.1	230.5	246.2
147.5°	163.4	158.9	172.3	176.8	181.3	181.3	185.8	199.2	210.4	223.8	237.2
150°	165.6	158.9	172.3	176.8	183.5	183.5	185.8	192.5	205.9	214.9	226.1
152.5°	163.4	161.1	170.1	179.1	183.5	185.8	185.8	188.0	199.2	208.1	217.1
155°	165.6	165.6	172.3	183.5	185.8	185.8	188.0	185.8	190.2	199.2	208.1
157.5°	170.1	174.6	174.6	185.8	190.2	190.2	192.5	190.2	188.0	190.2	199.2
160°	176.8	181.3	181.3	188.0	194.7	194.7	197.0	194.7	192.5	190.2	190.2
162.5°	183.5	188.0	188.0	190.2	197.0	199.2	201.4	199.2	197.0	192.5	190.2
165°	190.2	194.7	194.7	194.7	199.2	201.4	203.7	201.4	201.4	197.0	194.7
167.5°	197.0	201.4	201.4	199.2	201.4	203.7	205.9	203.7	203.7	201.4	197.0
170°	203.7	208.1	208.1	203.7	205.9	205.9	208.1	205.9	205.9	201.4	199.2
172.5°	208.1	212.6	210.4	208.1	208.1	208.1	208.1	205.9	203.7	199.2	199.2
175°	210.4	214.9	214.9	210.4	208.1	208.1	210.4	205.9	203.7	201.4	197.0
177.5°	210.4	214.9	214.9	210.4	210.4	208.1	210.4	208.1	208.1	203.7	199.2
180°	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7	2450.7
2.5°	2441.8	2439.6	2426.1	2441.8	2441.8	2437.3	2455.2	2453.0	2450.7	2446.3
5°	2432.8	2430.6	2417.2	2432.8	2432.8	2430.6	2448.5	2450.7	2453.0	2448.5
7.5°	2419.4	2417.2	2403.7	2419.4	2419.4	2417.2	2437.3	2439.6	2441.8	2435.1
10°	2399.3	2397.0	2383.6	2399.3	2401.5	2399.3	2414.9	2417.2	2421.7	2412.7
12.5°	2372.4	2372.4	2359.0	2374.7	2376.9	2374.7	2390.3	2394.8	2399.3	2388.1
15°	2338.8	2341.1	2329.9	2345.6	2347.8	2347.8	2363.5	2365.7	2372.4	2356.7
17.5°	2298.6	2303.0	2294.1	2309.7	2312.0	2314.2	2323.2	2329.9	2336.6	2318.7
20°	2256.0	2258.3	2251.6	2265.0	2269.5	2267.2	2278.4	2287.4	2294.1	2276.2
22.5°	2204.6	2206.8	2200.1	2213.5	2218.0	2220.2	2229.2	2240.4	2244.8	2229.2
25°	2146.4	2155.3	2150.8	2164.3	2168.7	2168.7	2177.7	2188.9	2195.6	2173.2
27.5°	2090.4	2101.6	2097.1	2110.6	2115.0	2117.3	2121.7	2135.2	2141.9	2121.7
30°	2027.7	2041.2	2038.9	2052.4	2056.8	2054.6	2063.6	2077.0	2085.9	2063.6
32.5°	1958.4	1976.3	1974.0	1991.9	1996.4	1998.6	2005.4	2023.3	2032.2	2012.1
35°	1891.2	1911.4	1913.6	1933.7	1940.5	1942.7	1951.6	1969.6	1978.5	1958.4
37.5°	1821.8	1848.7	1855.4	1875.6	1882.3	1884.5	1893.5	1913.6	1922.6	1902.4
40°	1754.7	1786.0	1795.0	1812.9	1819.6	1826.3	1833.0	1853.2	1864.4	1844.2
42.5°	1687.5	1721.1	1732.3	1750.2	1756.9	1763.6	1772.6	1795.0	1803.9	1786.0
45°	1618.2	1654.0	1667.4	1685.3	1694.3	1701.0	1709.9	1730.1	1741.3	1723.4
47.5°	1548.8	1584.6	1598.0	1618.2	1627.1	1636.1	1642.8	1667.4	1678.6	1660.7
50°	1474.9	1515.2	1530.9	1548.8	1562.2	1568.9	1577.9	1600.3	1611.5	1595.8
52.5°	1401.1	1443.6	1461.5	1479.4	1492.8	1504.0	1508.5	1533.1	1544.3	1528.6
55°	1325.0	1367.5	1387.6	1407.8	1421.2	1434.6	1439.1	1463.7	1474.9	1452.5
57.5°	1248.9	1293.6	1313.8	1336.2	1347.4	1363.0	1369.7	1392.1	1403.3	1387.6
60°	1172.8	1215.3	1239.9	1260.1	1275.7	1289.2	1293.6	1318.3	1329.4	1309.3
62.5°	1094.4	1139.2	1163.8	1186.2	1199.6	1215.3	1222.0	1244.4	1253.4	1233.2
65°	1013.9	1058.6	1085.5	1105.6	1123.5	1137.0	1141.4	1166.1	1175.0	1154.9
67.5°	933.3	978.1	1007.2	1029.5	1045.2	1060.9	1065.3	1090.0	1098.9	1083.3
70°	855.0	899.7	928.8	955.7	966.9	982.5	989.3	1011.6	1020.6	1007.2
72.5°	776.6	821.4	852.7	879.6	890.8	906.4	915.4	933.3	946.7	935.5
75°	700.5	745.3	776.6	803.5	814.7	830.3	839.3	857.2	866.2	857.2
77.5°	626.7	671.4	700.5	727.4	740.8	754.2	763.2	781.1	792.3	783.3
80°	555.1	599.8	628.9	653.5	667.0	680.4	689.3	709.5	718.4	711.7
82.5°	487.9	530.4	561.8	586.4	599.8	613.2	622.2	640.1	651.3	642.3
85°	427.5	470.0	499.1	523.7	534.9	548.3	557.3	575.2	584.2	579.7
87.5°	369.3	407.3	440.9	465.5	476.7	490.1	501.3	514.8	526.0	519.2
90°	324.5	358.1	389.4	414.1	427.5	440.9	454.3	467.8	476.7	472.2
92.5°	326.8	358.1	387.2	409.6	423.0	436.4	449.9	465.5	472.2	467.8
95°	326.8	358.1	387.2	409.6	423.0	436.4	449.9	465.5	472.2	467.8
97.5°	326.8	358.1	387.2	409.6	423.0	436.4	449.9	465.5	472.2	465.5
100°	326.8	358.1	387.2	409.6	423.0	434.2	447.6	463.3	470.0	465.5
102.5°	326.8	358.1	385.0	407.3	420.8	432.0	445.4	461.1	467.8	463.3
105°	326.8	355.9	385.0	405.1	418.5	429.7	443.1	456.6	463.3	458.8
107.5°	324.5	353.6	380.5	402.9	414.1	425.2	438.7	452.1	458.8	454.3
110°	324.5	351.4	378.2	398.4	409.6	420.8	434.2	447.6	454.3	449.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	322.3	349.1	376.0	393.9	405.1	416.3	427.5	443.1	449.9	445.4
115°	320.1	346.9	371.5	389.4	400.6	409.6	423.0	438.7	443.1	440.9
117.5°	317.8	342.4	367.1	385.0	396.1	405.1	416.3	429.7	436.4	434.2
120°	315.6	338.0	362.6	378.2	389.4	398.4	407.3	420.8	427.5	423.0
122.5°	311.1	333.5	358.1	373.8	382.7	391.7	400.6	411.8	418.5	416.3
125°	306.6	329.0	351.4	367.1	376.0	382.7	391.7	402.9	407.3	405.1
127.5°	302.1	324.5	344.7	358.1	369.3	376.0	382.7	393.9	398.4	396.1
130°	297.7	317.8	338.0	351.4	360.3	367.1	373.8	385.0	387.2	387.2
132.5°	293.2	311.1	331.2	344.7	353.6	358.1	364.8	373.8	378.2	376.0
135°	288.7	304.4	324.5	335.7	342.4	349.1	355.9	364.8	367.1	367.1
137.5°	282.0	297.7	315.6	326.8	333.5	338.0	344.7	353.6	355.9	355.9
140°	275.3	291.0	306.6	315.6	324.5	329.0	333.5	342.4	344.7	344.7
142.5°	268.6	282.0	297.7	306.6	315.6	317.8	324.5	331.2	333.5	333.5
145°	259.6	275.3	288.7	297.7	304.4	306.6	313.3	320.1	320.1	322.3
147.5°	248.4	261.9	279.8	286.5	293.2	295.4	302.1	306.6	308.9	308.9
150°	237.2	250.7	266.3	277.5	284.2	286.5	288.7	295.4	295.4	297.7
152.5°	226.1	237.2	252.9	264.1	273.1	275.3	277.5	282.0	282.0	284.2
155°	214.9	223.8	237.2	248.4	257.4	261.9	266.3	270.8	270.8	273.1
157.5°	205.9	214.9	226.1	235.0	241.7	248.4	255.1	259.6	259.6	259.6
160°	194.7	201.4	212.6	219.3	228.3	232.8	244.0	248.4	248.4	250.7
162.5°	188.0	190.2	197.0	203.7	210.4	214.9	226.1	237.2	237.2	239.5
165°	190.2	188.0	190.2	192.5	197.0	199.2	205.9	221.6	226.1	228.3
167.5°	194.7	188.0	188.0	188.0	192.5	192.5	199.2	208.1	223.8	219.3
170°	194.7	188.0	183.5	183.5	185.8	183.5	188.0	194.7	203.7	212.6
172.5°	197.0	190.2	183.5	174.6	176.8	174.6	170.1	170.1	172.3	201.4
175°	194.7	190.2	181.3	170.1	167.9	161.1	147.7	136.5	129.8	100.7
177.5°	192.5	185.8	179.1	170.1	165.6	158.9	143.2	125.3	107.4	103.0
180°	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5



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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	15.22	16.54	15.84	17.17	17.90	17.85	19.17	18.47	19.80	20.53
	3H	16.63	17.83	17.25	18.47	19.22	20.31	21.51	20.94	22.16	22.91
	4H	17.05	18.19	17.70	18.85	19.61	21.48	22.62	22.13	23.27	24.04
	6H	17.29	18.35	17.95	19.01	19.80	22.66	23.72	23.32	24.38	25.17
	8H	17.33	18.34	18.00	19.03	19.82	23.25	24.26	23.92	24.95	25.74
	12H	17.34	18.31	18.02	18.99	19.81	23.89	24.86	24.57	25.54	26.35
4H	2H	16.12	17.26	16.77	17.92	18.69	18.20	19.33	18.85	19.99	20.76
	3H	17.75	18.71	18.41	19.41	20.19	20.86	21.82	21.52	22.52	23.31
	4H	18.30	19.19	18.98	19.88	20.70	22.17	23.06	22.85	23.76	24.57
	6H	18.64	19.42	19.34	20.14	20.97	23.53	24.30	24.22	25.03	25.85
	8H	18.71	19.45	19.42	20.17	21.01	24.22	24.95	24.92	25.67	26.51
	12H	18.74	19.41	19.47	20.15	21.00	24.97	25.63	25.69	26.37	27.22
8H	4H	18.96	19.70	19.67	20.41	21.26	22.32	23.05	23.03	23.77	24.61
	6H	19.47	20.09	20.20	20.85	21.69	23.82	24.43	24.55	25.19	26.04
	8H	19.62	20.18	20.37	20.94	21.80	24.63	25.18	25.37	25.94	26.80
	12H	19.71	20.21	20.46	20.96	21.88	25.54	26.03	26.29	26.78	27.70
12H	4H	19.13	19.80	19.86	20.54	21.39	22.31	22.98	23.04	23.72	24.57
	6H	19.73	20.29	20.48	21.05	21.91	23.83	24.39	24.58	25.15	26.01
	8H	19.97	20.46	20.72	21.21	22.13	24.69	25.19	25.44	25.94	26.86