

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: P895414

Luminaire Tested: 8TMB-SC3-FLTU-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895414
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

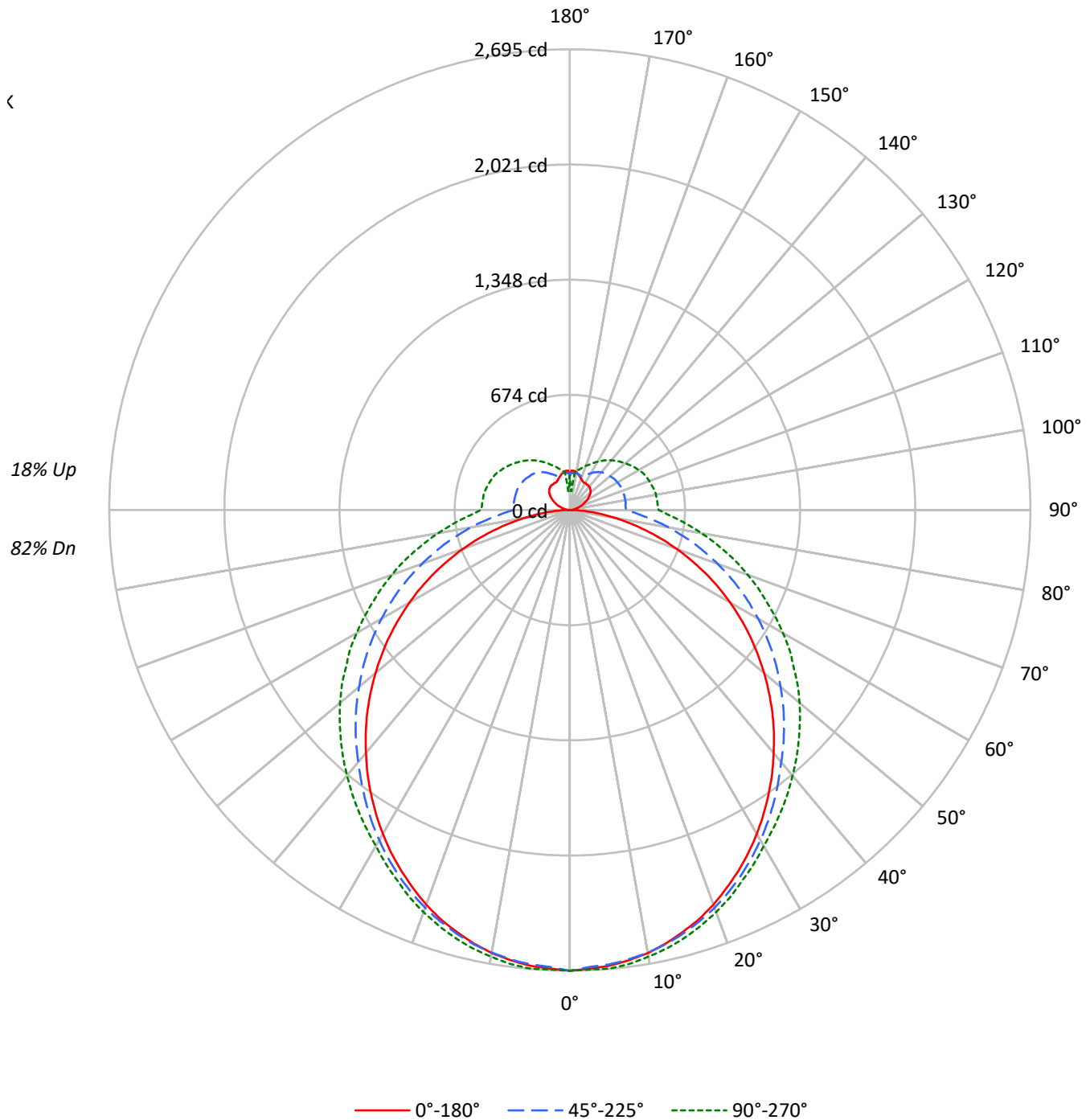
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10189.0 lumens
Efficiency: N/A
Efficacy: 100.5 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°	9563	9563	9563
5°	9508	9177	9152
10°	9436	8838	8717
15°	9320	8497	8302
20°	9188	8146	7880
25°	9016	7778	7453
30°	8832	7402	7063
35°	8627	7023	6742
40°	8411	6650	6435
45°	8197	6325	6144
50°	7945	5988	5860
55°	7677	5658	5544
60°	7353	5302	5243
65°	6966	4927	4902
70°	6456	4515	4586
75°	5750	4092	4244
80°	4818	3640	3894
85°	3628	3181	3573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8197 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.8	2.5
10°-20°	726.9	7.1
20°-30°	1092.1	10.7
30°-40°	1311.4	12.9
40°-50°	1379.0	13.5
50°-60°	1295.6	12.7
60°-70°	1077.4	10.6
70°-80°	768.8	7.5
80°-90°	457.6	4.5
90°-100°	331.3	3.3
100°-110°	326.8	3.2
110°-120°	307.0	3.0
120°-130°	272.0	2.7
130°-140°	225.5	2.2
140°-150°	168.8	1.7
150°-160°	111.0	1.1
160°-170°	62.9	0.6
170°-180°	20.1	0.2
0°-30°	2073.9	20.4
0°-40°	3385.3	33.2
0°-60°	6059.9	59.5
0°-90°	8363.6	82.1
90°-120°	965.1	9.5
90°-150°	1631.4	16.0
90°-180°	1825.0	17.9
0°-180°	10189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2676	2708	2668	2676	2693	254
15°	2555	2594	2565	2582	2592	721
25°	2331	2375	2363	2385	2390	1074
35°	2028	2075	2082	2134	2154	1269
45°	1676	1723	1772	1863	1895	1292
55°	1287	1339	1445	1563	1597	1150
65°	876	948	1098	1236	1270	867
75°	460	564	751	896	943	489
85°	116	254	441	588	638	127
90°	0	145	327	470	519	8
95°	12	153	327	465	514	14
105°	47	170	330	460	505	50
115°	91	185	327	441	485	91
125°	138	197	318	414	446	123
135°	170	207	300	377	404	131
145°	180	202	271	335	354	113
155°	182	204	229	283	300	85
165°	209	222	214	217	251	59
175°	231	229	217	185	111	22
180°	202	202	202	202	202	



TEST NUMBER: P895414

CATALOG NUMBER: 8TMB-SC3-FLTU-UNV-CC93-HI-5000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2
2.5°	2685.3	2692.7	2695.2	2719.8	2709.9	2719.8	2702.5	2682.9	2677.9	2690.2	2675.5
5°	2675.5	2682.9	2685.3	2709.9	2700.1	2707.5	2692.7	2673.0	2668.1	2682.9	2668.1
7.5°	2655.8	2663.2	2665.6	2692.7	2680.4	2690.2	2673.0	2653.3	2650.9	2665.6	2650.9
10°	2631.2	2638.6	2641.0	2665.6	2655.8	2665.6	2648.4	2628.7	2626.2	2643.5	2628.7
12.5°	2596.7	2604.1	2609.0	2633.6	2621.3	2633.6	2613.9	2594.2	2596.7	2611.5	2601.6
15°	2554.9	2564.7	2567.2	2591.8	2581.9	2594.2	2574.6	2554.9	2559.8	2574.6	2564.7
17.5°	2510.6	2520.4	2522.9	2545.0	2535.2	2549.9	2527.8	2510.6	2515.5	2530.3	2522.9
20°	2456.4	2466.3	2471.2	2493.3	2483.5	2498.3	2476.1	2461.3	2466.3	2483.5	2476.1
22.5°	2394.9	2409.6	2412.1	2436.7	2424.4	2439.2	2417.0	2404.7	2412.1	2429.3	2422.0
25°	2330.9	2345.7	2348.1	2372.7	2362.9	2375.2	2353.0	2340.7	2350.6	2367.8	2362.9
27.5°	2262.0	2276.7	2281.7	2303.8	2294.0	2308.7	2284.1	2276.7	2286.6	2303.8	2298.9
30°	2188.1	2202.9	2205.4	2227.5	2220.1	2234.9	2212.7	2202.9	2217.7	2234.9	2230.0
32.5°	2109.4	2124.1	2131.5	2151.2	2143.8	2156.1	2136.4	2131.5	2143.8	2161.1	2158.6
35°	2028.1	2042.9	2050.3	2072.4	2062.6	2074.9	2055.2	2050.3	2070.0	2082.3	2082.3
37.5°	1944.5	1959.2	1966.6	1988.8	1976.5	1991.2	1971.5	1969.1	1991.2	2003.5	2003.5
40°	1855.8	1873.1	1880.5	1900.2	1890.3	1902.6	1885.4	1887.8	1907.5	1922.3	1924.8
42.5°	1767.2	1784.5	1791.9	1814.0	1801.7	1814.0	1799.2	1801.7	1823.8	1838.6	1850.9
45°	1676.2	1690.9	1698.3	1722.9	1708.2	1722.9	1708.2	1713.1	1735.2	1757.4	1772.2
47.5°	1580.2	1594.9	1607.3	1626.9	1614.6	1626.9	1617.1	1624.5	1651.6	1673.7	1693.4
50°	1484.2	1499.0	1511.3	1528.5	1516.2	1533.4	1521.1	1531.0	1565.4	1587.6	1609.7
52.5°	1385.7	1398.0	1417.7	1427.6	1417.7	1437.4	1427.6	1442.3	1476.8	1503.9	1528.5
55°	1287.3	1299.6	1319.3	1326.7	1316.8	1339.0	1331.6	1351.3	1388.2	1417.7	1444.8
57.5°	1186.4	1198.7	1215.9	1223.3	1215.9	1240.5	1238.1	1260.2	1297.1	1329.1	1358.7
60°	1083.0	1095.3	1110.1	1117.4	1117.4	1142.1	1142.1	1169.1	1208.5	1238.1	1272.5
62.5°	982.1	989.5	1004.2	1014.1	1021.5	1046.1	1046.1	1075.6	1117.4	1151.9	1186.4
65°	876.2	883.6	895.9	908.2	920.5	947.6	950.1	982.1	1023.9	1058.4	1097.8
67.5°	770.4	777.8	790.1	804.9	822.1	849.2	854.1	888.5	932.8	972.2	1009.1
70°	667.0	669.5	684.3	703.9	723.6	750.7	758.1	795.0	841.8	881.2	920.5
72.5°	563.6	566.1	580.9	605.5	627.6	657.2	667.0	706.4	753.2	792.6	831.9
75°	460.3	462.7	482.4	512.0	536.6	563.6	576.0	617.8	664.6	706.4	750.7
77.5°	361.8	366.7	386.4	416.0	445.5	477.5	489.8	531.6	583.3	622.7	664.6
80°	270.7	275.7	297.8	329.8	361.8	391.4	406.1	448.0	502.1	541.5	588.3
82.5°	187.1	194.4	221.5	256.0	288.0	320.0	334.7	374.1	423.3	467.7	512.0
85°	115.7	125.5	152.6	189.5	224.0	253.5	268.3	310.1	356.9	398.7	440.6
87.5°	54.1	68.9	96.0	132.9	169.8	194.4	211.7	253.5	297.8	339.7	381.5
90°	0.0	22.2	49.2	86.1	123.1	145.2	164.9	204.3	248.6	288.0	327.4
92.5°	4.9	24.6	54.1	88.6	125.5	147.7	167.4	206.8	248.6	288.0	327.4
95°	12.3	27.1	56.6	93.5	130.5	152.6	169.8	209.2	251.1	290.4	327.4
97.5°	22.2	34.5	64.0	98.5	135.4	155.1	174.8	214.1	253.5	292.9	329.8
100°	29.5	39.4	68.9	103.4	140.3	160.0	179.7	216.6	256.0	295.4	329.8
102.5°	36.9	49.2	76.3	108.3	145.2	164.9	182.1	219.1	258.4	295.4	329.8
105°	46.8	56.6	81.2	115.7	150.1	169.8	187.1	224.0	260.9	297.8	329.8
107.5°	56.6	64.0	88.6	120.6	155.1	172.3	189.5	226.4	263.4	297.8	329.8
110°	68.9	73.8	96.0	125.5	157.5	177.2	194.4	228.9	263.4	297.8	329.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	81.2	81.2	103.4	130.5	162.4	179.7	196.9	231.4	265.8	297.8	329.8
115°	91.1	93.5	110.8	135.4	167.4	184.6	199.4	231.4	265.8	297.8	327.4
117.5°	103.4	103.4	120.6	140.3	169.8	187.1	204.3	233.8	265.8	295.4	324.9
120°	115.7	113.2	128.0	147.7	174.8	189.5	206.8	236.3	265.8	295.4	322.4
122.5°	128.0	123.1	132.9	152.6	177.2	194.4	206.8	236.3	265.8	292.9	320.0
125°	137.8	132.9	140.3	160.0	182.1	196.9	209.2	236.3	265.8	290.4	317.5
127.5°	147.7	142.8	150.1	164.9	184.6	196.9	211.7	236.3	265.8	288.0	312.6
130°	157.5	150.1	160.0	169.8	189.5	199.4	211.7	236.3	263.4	285.5	307.7
132.5°	164.9	157.5	167.4	174.8	192.0	201.8	214.1	236.3	260.9	283.1	305.2
135°	169.8	162.4	174.8	179.7	196.9	206.8	216.6	236.3	258.4	280.6	300.3
137.5°	174.8	164.9	179.7	184.6	199.4	209.2	216.6	233.8	256.0	275.7	295.4
140°	177.2	169.8	184.6	189.5	196.9	206.8	216.6	231.4	251.1	270.7	288.0
142.5°	179.7	169.8	187.1	192.0	196.9	204.3	214.1	226.4	246.1	263.4	280.6
145°	179.7	172.3	187.1	192.0	196.9	201.8	209.2	224.0	238.7	253.5	270.7
147.5°	179.7	174.8	189.5	194.4	199.4	199.4	204.3	219.1	231.4	246.1	260.9
150°	182.1	174.8	189.5	194.4	201.8	201.8	204.3	211.7	226.4	236.3	248.6
152.5°	179.7	177.2	187.1	196.9	201.8	204.3	204.3	206.8	219.1	228.9	238.7
155°	182.1	182.1	189.5	201.8	204.3	204.3	206.8	204.3	209.2	219.1	228.9
157.5°	187.1	192.0	192.0	204.3	209.2	209.2	211.7	209.2	206.8	209.2	219.1
160°	194.4	199.4	199.4	206.8	214.1	214.1	216.6	214.1	211.7	209.2	209.2
162.5°	201.8	206.8	206.8	209.2	216.6	219.1	221.5	219.1	216.6	211.7	209.2
165°	209.2	214.1	214.1	214.1	219.1	221.5	224.0	221.5	221.5	216.6	214.1
167.5°	216.6	221.5	221.5	219.1	221.5	224.0	226.4	224.0	224.0	221.5	216.6
170°	224.0	228.9	228.9	224.0	226.4	226.4	228.9	226.4	226.4	221.5	219.1
172.5°	228.9	233.8	231.4	228.9	228.9	228.9	228.9	226.4	224.0	219.1	219.1
175°	231.4	236.3	236.3	231.4	228.9	228.9	231.4	226.4	224.0	221.5	216.6
177.5°	231.4	236.3	236.3	231.4	231.4	228.9	231.4	228.9	228.9	224.0	219.1
180°	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2
2.5°	2685.3	2682.9	2668.1	2685.3	2685.3	2680.4	2700.1	2697.6	2695.2	2690.2
5°	2675.5	2673.0	2658.2	2675.5	2675.5	2673.0	2692.7	2695.2	2697.6	2692.7
7.5°	2660.7	2658.2	2643.5	2660.7	2660.7	2658.2	2680.4	2682.9	2685.3	2677.9
10°	2638.6	2636.1	2621.3	2638.6	2641.0	2638.6	2655.8	2658.2	2663.2	2653.3
12.5°	2609.0	2609.0	2594.2	2611.5	2613.9	2611.5	2628.7	2633.6	2638.6	2626.2
15°	2572.1	2574.6	2562.3	2579.5	2581.9	2581.9	2599.2	2601.6	2609.0	2591.8
17.5°	2527.8	2532.7	2522.9	2540.1	2542.6	2545.0	2554.9	2562.3	2569.6	2549.9
20°	2481.0	2483.5	2476.1	2490.9	2495.8	2493.3	2505.6	2515.5	2522.9	2503.2
22.5°	2424.4	2426.9	2419.5	2434.3	2439.2	2441.6	2451.5	2463.8	2468.7	2451.5
25°	2360.4	2370.3	2365.3	2380.1	2385.0	2385.0	2394.9	2407.2	2414.6	2390.0
27.5°	2298.9	2311.2	2306.3	2321.0	2326.0	2328.4	2333.3	2348.1	2355.5	2333.3
30°	2230.0	2244.7	2242.3	2257.0	2262.0	2259.5	2269.4	2284.1	2294.0	2269.4
32.5°	2153.7	2173.4	2170.9	2190.6	2195.5	2198.0	2205.4	2225.0	2234.9	2212.7
35°	2079.8	2102.0	2104.4	2126.6	2134.0	2136.4	2146.3	2166.0	2175.8	2153.7
37.5°	2003.5	2033.1	2040.4	2062.6	2070.0	2072.4	2082.3	2104.4	2114.3	2092.1
40°	1929.7	1964.1	1974.0	1993.7	2001.1	2008.5	2015.8	2038.0	2050.3	2028.1
42.5°	1855.8	1892.8	1905.1	1924.8	1932.1	1939.5	1949.4	1974.0	1983.8	1964.1
45°	1779.5	1818.9	1833.7	1853.4	1863.2	1870.6	1880.5	1902.6	1914.9	1895.2
47.5°	1703.2	1742.6	1757.4	1779.5	1789.4	1799.2	1806.6	1833.7	1846.0	1826.3
50°	1622.0	1666.3	1683.6	1703.2	1718.0	1725.4	1735.2	1759.9	1772.2	1754.9
52.5°	1540.8	1587.6	1607.3	1626.9	1641.7	1654.0	1658.9	1686.0	1698.3	1681.1
55°	1457.1	1503.9	1526.0	1548.2	1562.9	1577.7	1582.6	1609.7	1622.0	1597.4
57.5°	1373.4	1422.7	1444.8	1469.4	1481.7	1499.0	1506.3	1531.0	1543.3	1526.0
60°	1289.7	1336.5	1363.6	1385.7	1403.0	1417.7	1422.7	1449.7	1462.0	1439.9
62.5°	1203.6	1252.8	1279.9	1304.5	1319.3	1336.5	1343.9	1368.5	1378.3	1356.2
65°	1115.0	1164.2	1193.7	1215.9	1235.6	1250.4	1255.3	1282.4	1292.2	1270.0
67.5°	1026.4	1075.6	1107.6	1132.2	1149.4	1166.7	1171.6	1198.7	1208.5	1191.3
70°	940.2	989.5	1021.5	1051.0	1063.3	1080.5	1087.9	1112.5	1122.4	1107.6
72.5°	854.1	903.3	937.8	967.3	979.6	996.8	1006.7	1026.4	1041.1	1028.8
75°	770.4	819.6	854.1	883.6	895.9	913.2	923.0	942.7	952.5	942.7
77.5°	689.2	738.4	770.4	799.9	814.7	829.5	839.3	859.0	871.3	861.5
80°	610.4	659.6	691.6	718.7	733.5	748.2	758.1	780.2	790.1	782.7
82.5°	536.6	583.3	617.8	644.9	659.6	674.4	684.3	703.9	716.2	706.4
85°	470.1	516.9	548.9	576.0	588.3	603.0	612.9	632.6	642.4	637.5
87.5°	406.1	448.0	484.9	512.0	524.3	539.0	551.3	566.1	578.4	571.0
90°	356.9	393.8	428.3	455.3	470.1	484.9	499.7	514.4	524.3	519.3
92.5°	359.4	393.8	425.8	450.4	465.2	480.0	494.7	512.0	519.3	514.4
95°	359.4	393.8	425.8	450.4	465.2	480.0	494.7	512.0	519.3	514.4
97.5°	359.4	393.8	425.8	450.4	465.2	480.0	494.7	512.0	519.3	512.0
100°	359.4	393.8	425.8	450.4	465.2	477.5	492.3	509.5	516.9	512.0
102.5°	359.4	393.8	423.3	448.0	462.7	475.0	489.8	507.0	514.4	509.5
105°	359.4	391.4	423.3	445.5	460.3	472.6	487.3	502.1	509.5	504.6
107.5°	356.9	388.9	418.4	443.0	455.3	467.7	482.4	497.2	504.6	499.7
110°	356.9	386.4	416.0	438.1	450.4	462.7	477.5	492.3	499.7	494.7



TEST NUMBER: P895414
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	354.4	384.0	413.5	433.2	445.5	457.8	470.1	487.3	494.7	489.8
115°	352.0	381.5	408.6	428.3	440.6	450.4	465.2	482.4	487.3	484.9
117.5°	349.5	376.6	403.7	423.3	435.7	445.5	457.8	472.6	480.0	477.5
120°	347.0	371.7	398.7	416.0	428.3	438.1	448.0	462.7	470.1	465.2
122.5°	342.1	366.7	393.8	411.0	420.9	430.7	440.6	452.9	460.3	457.8
125°	337.2	361.8	386.4	403.7	413.5	420.9	430.7	443.0	448.0	445.5
127.5°	332.3	356.9	379.0	393.8	406.1	413.5	420.9	433.2	438.1	435.7
130°	327.4	349.5	371.7	386.4	396.3	403.7	411.0	423.3	425.8	425.8
132.5°	322.4	342.1	364.3	379.0	388.9	393.8	401.2	411.0	416.0	413.5
135°	317.5	334.7	356.9	369.2	376.6	384.0	391.4	401.2	403.7	403.7
137.5°	310.1	327.4	347.0	359.4	366.7	371.7	379.0	388.9	391.4	391.4
140°	302.7	320.0	337.2	347.0	356.9	361.8	366.7	376.6	379.0	379.0
142.5°	295.4	310.1	327.4	337.2	347.0	349.5	356.9	364.3	366.7	366.7
145°	285.5	302.7	317.5	327.4	334.7	337.2	344.6	352.0	352.0	354.4
147.5°	273.2	288.0	307.7	315.1	322.4	324.9	332.3	337.2	339.7	339.7
150°	260.9	275.7	292.9	305.2	312.6	315.1	317.5	324.9	324.9	327.4
152.5°	248.6	260.9	278.1	290.4	300.3	302.7	305.2	310.1	310.1	312.6
155°	236.3	246.1	260.9	273.2	283.1	288.0	292.9	297.8	297.8	300.3
157.5°	226.4	236.3	248.6	258.4	265.8	273.2	280.6	285.5	285.5	285.5
160°	214.1	221.5	233.8	241.2	251.1	256.0	268.3	273.2	273.2	275.7
162.5°	206.8	209.2	216.6	224.0	231.4	236.3	248.6	260.9	260.9	263.4
165°	209.2	206.8	209.2	211.7	216.6	219.1	226.4	243.7	248.6	251.1
167.5°	214.1	206.8	206.8	206.8	211.7	211.7	219.1	228.9	246.1	241.2
170°	214.1	206.8	201.8	201.8	204.3	201.8	206.8	214.1	224.0	233.8
172.5°	216.6	209.2	201.8	192.0	194.4	192.0	187.1	187.1	189.5	221.5
175°	214.1	209.2	199.4	187.1	184.6	177.2	162.4	150.1	142.8	110.8
177.5°	211.7	204.3	196.9	187.1	182.1	174.8	157.5	137.8	118.1	113.2
180°	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8



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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	15.55	16.87	16.17	17.50	18.23	18.18	19.50	18.80	20.13	20.86
	3H	16.96	18.16	17.58	18.80	19.55	20.64	21.84	21.27	22.49	23.24
	4H	17.38	18.52	18.03	19.18	19.95	21.81	22.95	22.46	23.60	24.37
	6H	17.62	18.68	18.28	19.34	20.13	22.99	24.05	23.65	24.71	25.50
	8H	17.66	18.67	18.33	19.36	20.15	23.58	24.59	24.26	25.28	26.07
	12H	17.67	18.64	18.35	19.32	20.14	24.22	25.19	24.90	25.87	26.68
4H	2H	16.45	17.59	17.11	18.25	19.02	18.53	19.66	19.18	20.32	21.09
	3H	18.08	19.04	18.74	19.74	20.53	21.19	22.16	21.85	22.85	23.64
	4H	18.63	19.52	19.31	20.21	21.03	22.50	23.39	23.18	24.09	24.90
	6H	18.97	19.75	19.67	20.47	21.30	23.86	24.64	24.55	25.36	26.18
	8H	19.05	19.78	19.75	20.50	21.34	24.55	25.28	25.25	26.00	26.84
	12H	19.08	19.74	19.80	20.48	21.33	25.30	25.96	26.02	26.70	27.55
8H	4H	19.29	20.03	20.00	20.75	21.59	22.65	23.38	23.36	24.10	24.94
	6H	19.80	20.42	20.53	21.18	22.02	24.15	24.76	24.88	25.52	26.37
	8H	19.95	20.51	20.70	21.27	22.13	24.96	25.51	25.70	26.27	27.13
	12H	20.04	20.54	20.79	21.29	22.21	25.87	26.36	26.62	27.11	28.03
12H	4H	19.47	20.13	20.19	20.87	21.72	22.64	23.31	23.37	24.05	24.90
	6H	20.06	20.62	20.81	21.38	22.24	24.16	24.72	24.91	25.48	26.34
	8H	20.30	20.79	21.05	21.55	22.46	25.02	25.52	25.77	26.27	27.19