

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: P894542

Luminaire Tested: 8TMB-12SL-RND-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-12SL-RND-UNV-L835
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

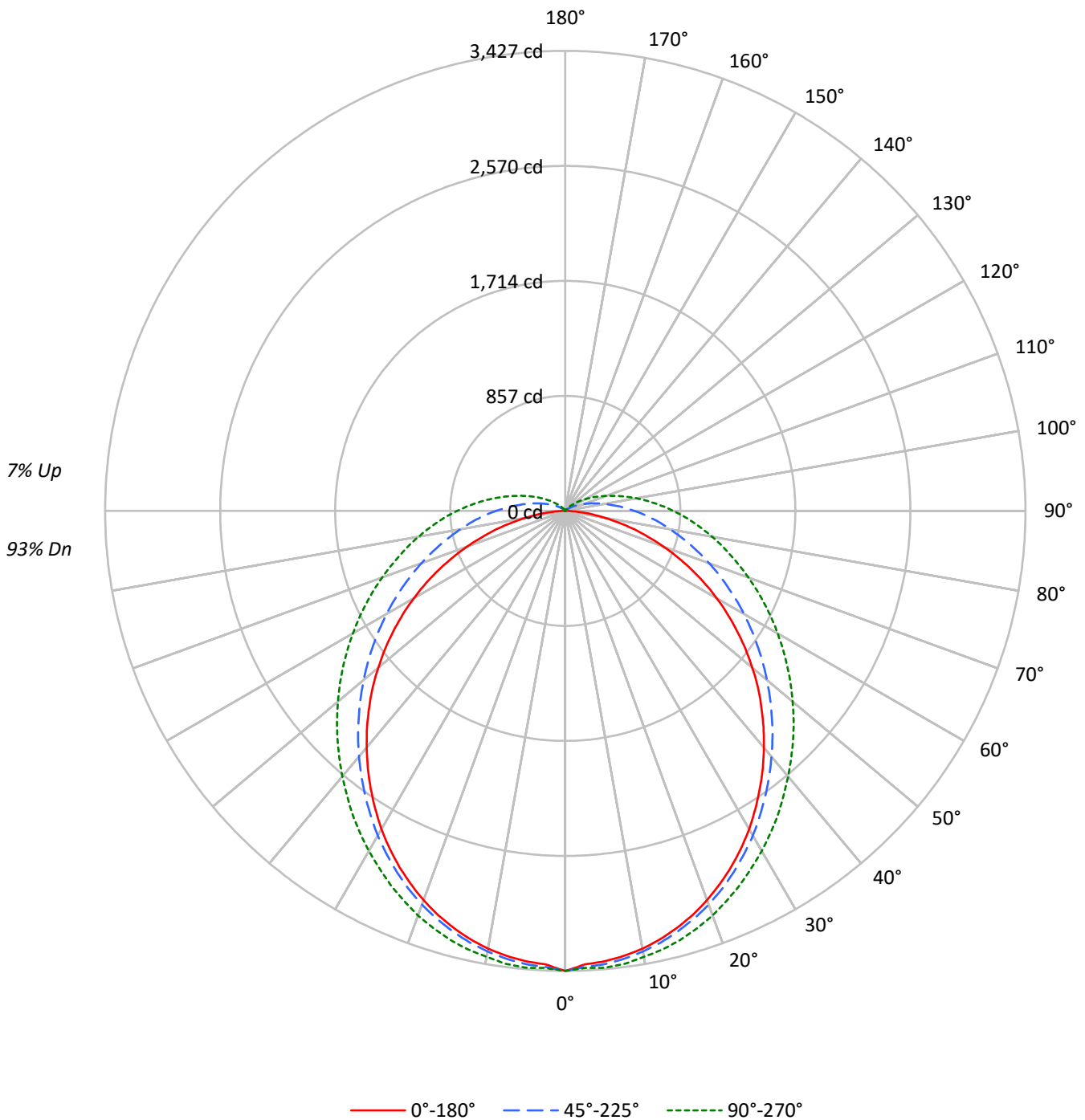
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11344.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93	
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74	
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60	
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50	
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	43	
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37	
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32	
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28	
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	27	27	27	25	
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24	24	24	24	23	
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	22	22	22	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12158	12158	12158
5°	11995	12071	12167
10°	11931	12008	12153
15°	11809	11908	12154
20°	11653	11785	12109
25°	11452	11620	12040
30°	11216	11447	11985
35°	10940	11242	11963
40°	10656	11066	11960
45°	10360	10911	12042
50°	10035	10819	12196
55°	9670	10798	12490
60°	9247	10903	12958
65°	8735	11188	13732
70°	8095	11822	15049
75°	7315	13159	17460
80°	6191	16218	22683
85°	5020	26417	38858

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 71541 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	2.9
10°-20°	923.3	8.1
20°-30°	1382.6	12.2
30°-40°	1648.5	14.5
40°-50°	1709.7	15.1
50°-60°	1586.2	14.0
60°-70°	1323.3	11.7
70°-80°	986.6	8.7
80°-90°	656.9	5.8
90°-100°	399.9	3.5
100°-110°	223.3	2.0
110°-120°	111.5	1.0
120°-130°	46.6	0.4
130°-140°	14.7	0.1
140°-150°	3.6	0.0
150°-160°	1.6	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	2630.0	23.2
0°-40°	4278.5	37.7
0°-60°	7574.5	66.8
0°-90°	10541.2	92.9
90°-120°	734.8	6.5
90°-150°	799.7	7.0
90°-180°	803.0	7.1
0°-180°	11344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3427	3427	3427	3427	3427	
5°	3368	3446	3389	3408	3416	320
15°	3215	3298	3242	3301	3309	907
25°	2925	3003	2968	3051	3076	1347
35°	2526	2593	2596	2724	2762	1580
45°	2065	2118	2174	2346	2400	1593
55°	1563	1617	1746	1949	2019	1397
65°	1040	1124	1333	1558	1636	1030
75°	534	681	960	1193	1274	564
85°	123	338	649	871	954	139
90°	5	222	515	727	804	9
95°	0	137	397	595	665	0
105°	0	43	217	367	424	0
115°	3	11	102	206	247	3
125°	3	3	40	99	123	2
135°	3	3	11	35	46	2
145°	3	3	3	8	11	2
155°	5	5	3	3	3	2
165°	5	5	3	3	3	2
175°	5	5	5	3	0	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7
2.5°	3381.1	3386.5	3434.8	3432.1	3424.0	3456.2	3464.3	3437.5	3394.5	3437.5	3399.9
5°	3367.7	3373.1	3421.4	3418.7	3410.6	3445.5	3448.2	3424.0	3381.1	3424.0	3389.2
7.5°	3343.6	3349.0	3397.2	3394.5	3389.2	3424.0	3421.4	3402.6	3357.0	3402.6	3365.1
10°	3311.4	3314.1	3365.1	3359.7	3357.0	3391.9	3383.8	3367.7	3322.2	3367.7	3332.9
12.5°	3268.5	3271.2	3322.2	3316.8	3316.8	3349.0	3338.2	3324.8	3279.3	3322.2	3292.7
15°	3214.9	3217.6	3265.8	3263.2	3263.2	3298.0	3281.9	3271.2	3228.3	3273.9	3241.7
17.5°	3155.9	3153.2	3204.2	3198.8	3204.2	3236.4	3214.9	3209.5	3169.3	3212.2	3185.4
20°	3086.2	3086.2	3131.8	3129.1	3137.1	3166.6	3139.8	3142.5	3102.3	3147.9	3121.1
22.5°	3008.4	3005.8	3051.3	3051.3	3059.4	3088.9	3059.4	3067.4	3027.2	3070.1	3048.7
25°	2925.3	2920.0	2965.5	2965.5	2978.9	3003.1	2970.9	2981.6	2944.1	2987.0	2968.2
27.5°	2834.2	2826.1	2871.7	2874.4	2885.1	2909.2	2874.4	2890.5	2855.6	2895.8	2882.4
30°	2737.6	2729.6	2775.2	2777.8	2791.3	2810.0	2775.2	2796.6	2764.4	2804.7	2793.9
32.5°	2633.1	2627.7	2670.6	2676.0	2689.4	2702.8	2670.6	2692.0	2665.2	2705.5	2694.7
35°	2525.8	2520.4	2560.7	2568.7	2582.1	2592.8	2558.0	2587.5	2563.3	2600.9	2595.5
37.5°	2415.9	2407.8	2450.7	2456.1	2472.2	2477.5	2445.4	2480.2	2458.8	2496.3	2493.6
40°	2300.6	2292.5	2335.4	2340.8	2356.9	2356.9	2330.1	2367.6	2351.5	2386.4	2389.1
42.5°	2185.3	2177.2	2214.8	2225.5	2238.9	2238.9	2212.1	2252.3	2241.6	2276.4	2284.5
45°	2064.6	2056.6	2091.4	2102.2	2118.2	2118.2	2091.4	2137.0	2129.0	2163.8	2174.5
47.5°	1946.6	1935.9	1968.1	1978.8	1994.9	1992.2	1970.8	2016.4	2013.7	2048.5	2067.3
50°	1817.9	1809.9	1842.1	1852.8	1871.6	1866.2	1850.1	1898.4	1898.4	1933.2	1960.0
52.5°	1691.9	1683.9	1716.0	1726.8	1742.9	1742.9	1726.8	1777.7	1785.8	1820.6	1852.8
55°	1563.2	1552.5	1584.7	1595.4	1614.2	1616.8	1603.4	1654.4	1670.5	1710.7	1745.5
57.5°	1434.5	1429.1	1456.0	1466.7	1490.8	1490.8	1482.8	1536.4	1557.8	1600.7	1641.0
60°	1303.1	1297.8	1321.9	1335.3	1362.1	1367.5	1362.1	1418.4	1447.9	1490.8	1536.4
62.5°	1171.7	1166.4	1190.5	1209.3	1238.8	1244.1	1246.8	1305.8	1338.0	1383.6	1434.5
65°	1040.4	1035.0	1059.1	1080.6	1115.4	1123.5	1131.5	1193.2	1230.7	1279.0	1332.6
67.5°	909.0	906.3	930.4	957.2	994.8	1005.5	1018.9	1083.3	1126.2	1177.1	1236.1
70°	780.3	777.6	801.7	833.9	879.5	892.9	909.0	973.3	1026.9	1080.6	1139.6
72.5°	651.6	654.2	681.1	718.6	769.5	782.9	804.4	871.4	930.4	986.7	1048.4
75°	533.6	533.6	563.1	606.0	662.3	681.1	705.2	774.9	836.6	895.6	959.9
77.5°	412.9	412.9	447.8	501.4	563.1	581.8	611.3	683.7	750.8	809.8	874.1
80°	303.0	308.4	348.6	402.2	466.5	490.7	525.5	597.9	670.3	729.3	793.7
82.5°	206.5	214.5	257.4	319.1	383.4	407.6	442.4	520.2	592.6	654.2	721.3
85°	123.3	136.7	182.3	244.0	311.0	337.8	375.4	447.8	520.2	581.8	648.9
87.5°	56.3	75.1	123.3	185.0	249.4	278.9	311.0	380.7	453.1	514.8	584.5
90°	5.4	32.2	80.4	134.1	195.7	222.5	254.7	321.8	391.5	447.8	514.8
92.5°	0.0	13.4	48.3	96.5	150.2	177.0	206.5	270.8	332.5	388.8	453.1
95°	0.0	5.4	26.8	67.0	112.6	136.7	163.6	222.5	284.2	337.8	396.8
97.5°	0.0	2.7	16.1	45.6	83.1	104.6	128.7	182.3	238.6	289.6	343.2
100°	0.0	2.7	8.0	29.5	61.7	77.8	101.9	147.5	198.4	244.0	297.6
102.5°	0.0	0.0	5.4	18.8	45.6	59.0	77.8	118.0	163.6	206.5	254.7
105°	0.0	0.0	2.7	13.4	32.2	42.9	59.0	93.8	134.1	171.6	217.2
107.5°	0.0	0.0	2.7	8.0	21.5	32.2	45.6	72.4	107.3	142.1	182.3
110°	2.7	2.7	2.7	5.4	16.1	24.1	32.2	56.3	88.5	118.0	152.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.7	2.7	2.7	2.7	10.7	16.1	24.1	42.9	69.7	93.8	126.0
115°	2.7	2.7	2.7	2.7	8.0	10.7	16.1	32.2	53.6	75.1	101.9
117.5°	2.7	2.7	2.7	2.7	5.4	8.0	10.7	24.1	40.2	59.0	83.1
120°	2.7	2.7	2.7	2.7	2.7	5.4	8.0	16.1	32.2	45.6	67.0
122.5°	2.7	2.7	2.7	2.7	2.7	5.4	5.4	13.4	24.1	34.9	50.9
125°	2.7	2.7	2.7	2.7	2.7	2.7	5.4	8.0	16.1	26.8	40.2
127.5°	2.7	2.7	2.7	2.7	2.7	2.7	5.4	8.0	10.7	18.8	29.5
130°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	8.0	13.4	21.5
132.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	8.0	10.7	16.1
135°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	8.0	10.7
137.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4	8.0
140°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4
142.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4
145°	2.7	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
147.5°	2.7	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
150°	2.7	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
152.5°	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7
155°	5.4	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7
157.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7
160°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7
162.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7
165°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	2.7	2.7
167.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	2.7
170°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
172.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	2.7
175°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
177.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
180°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7
2.5°	3410.6	3418.7	3426.7	3405.3	3418.7	3442.8	3450.9	3418.7	3429.4	3408.0
5°	3399.9	3405.3	3416.0	3389.2	3408.0	3429.4	3442.8	3416.0	3432.1	3416.0
7.5°	3378.5	3383.8	3397.2	3370.4	3394.5	3413.3	3429.4	3402.6	3418.7	3402.6
10°	3346.3	3354.3	3373.1	3340.9	3370.4	3386.5	3402.6	3373.1	3389.2	3373.1
12.5°	3306.1	3319.5	3335.6	3306.1	3335.6	3349.0	3370.4	3340.9	3359.7	3346.3
15°	3257.8	3271.2	3292.7	3263.2	3300.7	3311.4	3332.9	3303.4	3322.2	3308.7
17.5°	3201.5	3217.6	3244.4	3209.5	3252.4	3260.5	3281.9	3255.1	3273.9	3260.5
20°	3137.1	3153.2	3180.0	3147.9	3190.8	3196.1	3220.3	3196.1	3214.9	3206.9
22.5°	3062.1	3080.8	3107.6	3078.2	3123.7	3123.7	3153.2	3129.1	3150.5	3142.5
25°	2984.3	3005.8	3035.3	3003.1	3051.3	3051.3	3083.5	3059.4	3080.8	3075.5
27.5°	2901.2	2925.3	2960.2	2928.0	2976.3	2973.6	3005.8	2984.3	3008.4	3000.4
30°	2812.7	2839.5	2874.4	2847.6	2898.5	2893.1	2925.3	2906.5	2928.0	2925.3
32.5°	2716.2	2745.7	2788.6	2759.1	2810.0	2804.7	2844.9	2823.4	2850.2	2844.9
35°	2619.6	2651.8	2694.7	2667.9	2724.2	2716.2	2756.4	2737.6	2764.4	2761.8
37.5°	2520.4	2555.3	2598.2	2576.7	2630.4	2622.3	2665.2	2649.1	2678.6	2670.6
40°	2418.5	2453.4	2499.0	2480.2	2536.5	2525.8	2571.4	2558.0	2587.5	2582.1
42.5°	2316.7	2354.2	2399.8	2389.1	2442.7	2432.0	2477.5	2466.8	2496.3	2490.9
45°	2212.1	2252.3	2300.6	2289.8	2346.2	2335.4	2381.0	2373.0	2402.5	2399.8
47.5°	2107.5	2150.4	2198.7	2193.3	2246.9	2236.2	2284.5	2276.4	2305.9	2305.9
50°	2000.3	2048.5	2096.8	2094.1	2147.7	2137.0	2179.9	2179.9	2212.1	2209.4
52.5°	1893.0	1944.0	1994.9	1994.9	2048.5	2037.8	2086.1	2083.4	2115.6	2115.6
55°	1791.1	1836.7	1887.6	1898.4	1949.3	1933.2	1984.2	1989.5	2016.4	2019.0
57.5°	1689.2	1737.5	1788.4	1801.8	1850.1	1839.4	1887.6	1893.0	1919.8	1922.5
60°	1587.3	1632.9	1683.9	1702.6	1750.9	1740.2	1788.4	1793.8	1823.3	1826.0
62.5°	1485.5	1531.0	1587.3	1606.1	1651.7	1643.6	1694.6	1700.0	1726.8	1732.1
65°	1386.2	1434.5	1488.1	1514.9	1557.8	1547.1	1598.1	1603.4	1632.9	1635.6
67.5°	1289.7	1338.0	1391.6	1421.1	1461.3	1456.0	1504.2	1514.9	1539.1	1544.4
70°	1195.9	1244.1	1300.4	1329.9	1370.2	1367.5	1413.1	1421.1	1447.9	1450.6
72.5°	1104.7	1153.0	1209.3	1244.1	1279.0	1276.3	1321.9	1332.6	1359.4	1362.1
75°	1016.2	1067.2	1120.8	1158.3	1193.2	1190.5	1236.1	1246.8	1270.9	1273.6
77.5°	933.1	984.0	1040.4	1077.9	1107.4	1110.1	1150.3	1161.0	1185.1	1193.2
80°	855.3	903.6	957.2	997.5	1024.3	1029.6	1067.2	1080.6	1099.3	1110.1
82.5°	780.3	828.5	882.2	919.7	946.5	951.9	986.7	1002.8	1021.6	1029.6
85°	707.9	756.1	807.1	847.3	871.4	874.1	909.0	925.1	941.1	954.5
87.5°	638.2	686.4	734.7	777.6	799.0	804.4	836.6	852.7	866.1	879.5
90°	568.4	616.7	665.0	705.2	726.6	729.3	764.2	780.3	793.7	804.4
92.5°	504.1	552.4	600.6	640.8	659.6	665.0	694.5	713.2	724.0	734.7
95°	442.4	490.7	533.6	576.5	595.3	603.3	630.1	646.2	659.6	665.0
97.5°	388.8	431.7	471.9	514.8	530.9	538.9	565.8	584.5	595.3	600.6
100°	337.8	378.1	415.6	455.8	471.9	480.0	504.1	520.2	530.9	538.9
102.5°	292.3	329.8	364.7	402.2	418.3	423.6	445.1	461.2	471.9	480.0
105°	252.0	286.9	319.1	353.9	367.3	375.4	394.2	407.6	418.3	423.6
107.5°	214.5	249.4	276.2	308.4	321.8	327.1	345.9	362.0	370.0	372.7
110°	182.3	211.8	238.6	265.5	281.5	286.9	303.0	316.4	324.4	327.1



TEST NUMBER: P894542
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	152.8	179.6	203.8	227.9	241.3	246.7	262.8	276.2	281.5	284.2
115°	126.0	152.8	171.6	195.7	206.5	211.8	225.2	238.6	241.3	246.7
117.5°	101.9	126.0	144.8	163.6	174.3	179.6	190.4	201.1	206.5	209.1
120°	83.1	101.9	118.0	136.7	144.8	150.2	160.9	171.6	174.3	177.0
122.5°	67.0	83.1	96.5	112.6	120.7	126.0	134.1	142.1	144.8	147.5
125°	50.9	67.0	77.8	91.2	99.2	101.9	109.9	118.0	120.7	123.3
127.5°	40.2	50.9	61.7	72.4	77.8	80.4	88.5	93.8	96.5	99.2
130°	29.5	37.5	45.6	56.3	61.7	64.4	69.7	75.1	77.8	77.8
132.5°	21.5	29.5	34.9	42.9	45.6	48.3	53.6	59.0	59.0	61.7
135°	13.4	18.8	24.1	29.5	34.9	34.9	40.2	42.9	45.6	45.6
137.5°	10.7	13.4	16.1	21.5	24.1	26.8	26.8	32.2	32.2	32.2
140°	8.0	10.7	10.7	13.4	16.1	18.8	18.8	21.5	21.5	21.5
142.5°	5.4	8.0	8.0	10.7	10.7	13.4	13.4	13.4	16.1	16.1
145°	5.4	5.4	5.4	8.0	8.0	8.0	8.0	10.7	10.7	10.7
147.5°	2.7	2.7	5.4	5.4	5.4	5.4	5.4	8.0	8.0	8.0
150°	2.7	2.7	2.7	2.7	2.7	5.4	5.4	5.4	5.4	5.4
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
155°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
157.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
160°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
162.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
165°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
167.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
170°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
172.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
175°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0
177.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0
180°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4



TEST NUMBER: P894542
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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	18.97	20.50	19.44	20.96	21.45	20.54	22.07	21.01	22.53	23.02
	3H	20.64	22.05	21.13	22.51	23.04	23.16	24.57	23.65	25.03	25.56
	4H	21.24	22.57	21.74	23.06	23.60	24.47	25.80	24.98	26.29	26.83
	6H	21.64	22.88	22.16	23.38	23.93	25.88	27.12	26.40	27.62	28.17
	8H	21.76	22.94	22.28	23.47	24.03	26.63	27.82	27.16	28.34	28.90
	12H	21.83	22.97	22.37	23.49	24.08	27.48	28.62	28.01	29.13	29.73
4H	2H	19.89	21.22	20.40	21.71	22.25	21.09	22.42	21.59	22.90	23.45
	3H	21.87	23.01	22.39	23.54	24.10	24.01	25.14	24.52	25.67	26.23
	4H	22.65	23.69	23.19	24.23	24.82	25.53	26.57	26.07	27.11	27.70
	6H	23.23	24.15	23.79	24.71	25.32	27.17	28.09	27.73	28.66	29.27
	8H	23.41	24.28	23.97	24.84	25.46	28.05	28.92	28.62	29.48	30.11
	12H	23.54	24.32	24.12	24.92	25.54	29.06	29.85	29.64	30.44	31.06
8H	4H	23.53	24.39	24.09	24.96	25.58	25.89	26.76	26.45	27.32	27.94
	6H	24.41	25.15	25.00	25.75	26.38	27.79	28.53	28.39	29.13	29.76
	8H	24.76	25.42	25.36	26.04	26.68	28.88	29.54	29.48	30.16	30.80
	12H	25.03	25.62	25.64	26.23	26.94	30.14	30.73	30.75	31.34	32.05
12H	4H	23.81	24.59	24.39	25.19	25.81	25.93	26.72	26.52	27.31	27.94
	6H	24.86	25.53	25.46	26.14	26.78	27.90	28.57	28.51	29.18	29.82
	8H	25.38	25.97	25.98	26.58	27.28	29.10	29.69	29.71	30.30	31.00