

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: P895503

Luminaire Tested: 8TMB-SC3-RND-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895503
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-SC3-RND-UNV-CC93-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 4000K CCT, HI lum setting
Light Source: -
Ballast/Driver: -

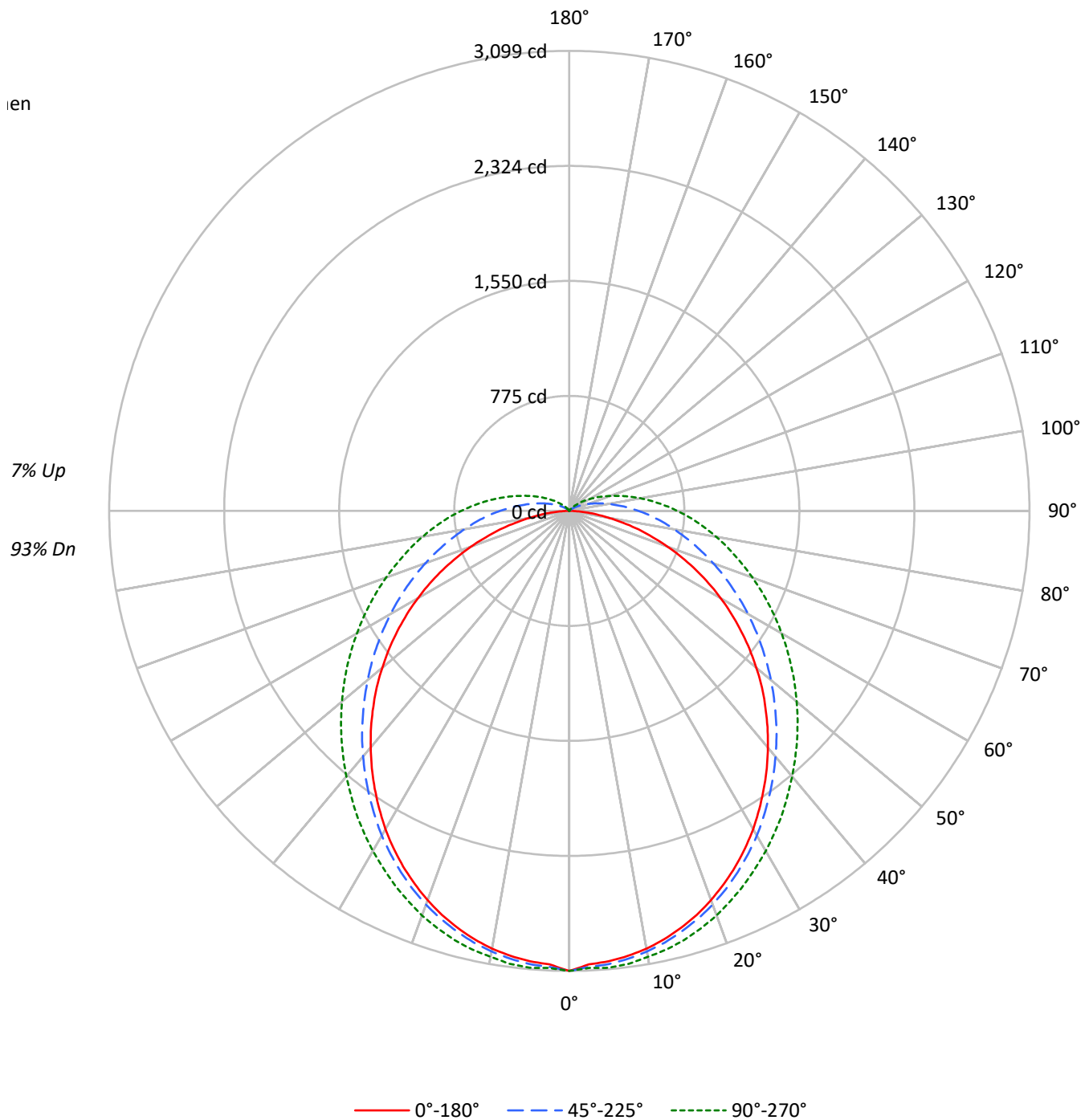
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10257.9 lumens
Efficiency: N/A
Efficacy: 101.2 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): 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				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°	10995	10995	10995
5°	10846	10916	11002
10°	10788	10858	10989
15°	10679	10768	10991
20°	10537	10657	10950
25°	10356	10508	10887
30°	10142	10351	10838
35°	9893	10166	10817
40°	9635	10006	10815
45°	9368	9867	10889
50°	9074	9784	11028
55°	8745	9764	11294
60°	8362	9859	11717
65°	7899	10117	12417
70°	7320	10690	13608
75°	6615	11899	15789
80°	5599	14665	20511
85°	4539	23889	35141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 64692 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.1	2.9
10°-20°	834.9	8.1
20°-30°	1250.2	12.2
30°-40°	1490.7	14.5
40°-50°	1546.1	15.1
50°-60°	1434.3	14.0
60°-70°	1196.6	11.7
70°-80°	892.1	8.7
80°-90°	594.0	5.8
90°-100°	361.6	3.5
100°-110°	201.9	2.0
110°-120°	100.9	1.0
120°-130°	42.2	0.4
130°-140°	13.3	0.1
140°-150°	3.3	0.0
150°-160°	1.4	0.0
160°-170°	1.0	0.0
170°-180°	0.3	0.0
0°-30°	2378.2	23.2
0°-40°	3868.9	37.7
0°-60°	6849.3	66.8
0°-90°	9532.1	92.9
90°-120°	664.4	6.5
90°-150°	723.1	7.0
90°-180°	726.0	7.1
0°-180°	10257.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3099	3099	3099	3099	3099	
5°	3045	3116	3065	3082	3089	289
15°	2907	2982	2931	2985	2992	820
25°	2645	2716	2684	2759	2781	1218
35°	2284	2345	2347	2463	2497	1429
45°	1867	1916	1966	2122	2170	1441
55°	1414	1462	1578	1763	1826	1264
65°	941	1016	1205	1409	1479	931
75°	482	616	868	1079	1152	510
85°	112	306	587	788	863	125
90°	5	201	466	657	727	8
95°	0	124	359	538	601	0
105°	0	39	196	332	383	0
115°	2	10	92	187	223	2
125°	2	2	36	90	112	2
135°	2	2	10	32	41	2
145°	2	2	2	7	10	2
155°	5	5	2	2	2	2
165°	5	5	2	2	2	1
175°	5	5	5	2	0	0
180°	5	5	5	5	5	



TEST NUMBER: P895503

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7
2.5°	3057.5	3062.3	3105.9	3103.5	3096.2	3125.3	3132.6	3108.4	3069.6	3108.4	3074.4
5°	3045.3	3050.2	3093.8	3091.4	3084.1	3115.6	3118.1	3096.2	3057.5	3096.2	3064.7
7.5°	3023.5	3028.4	3072.0	3069.6	3064.7	3096.2	3093.8	3076.9	3035.6	3076.9	3042.9
10°	2994.4	2996.8	3042.9	3038.1	3035.6	3067.2	3059.9	3045.3	3004.1	3045.3	3013.8
12.5°	2955.6	2958.0	3004.1	2999.3	2999.3	3028.4	3018.7	3006.5	2965.3	3004.1	2977.4
15°	2907.1	2909.6	2953.2	2950.8	2950.8	2982.3	2967.7	2958.0	2919.3	2960.5	2931.4
17.5°	2853.8	2851.4	2897.4	2892.6	2897.4	2926.5	2907.1	2902.3	2865.9	2904.7	2880.5
20°	2790.7	2790.7	2832.0	2829.5	2836.8	2863.5	2839.2	2841.7	2805.3	2846.5	2822.3
22.5°	2720.4	2718.0	2759.2	2759.2	2766.5	2793.2	2766.5	2773.8	2737.4	2776.2	2756.8
25°	2645.3	2640.4	2681.6	2681.6	2693.8	2715.6	2686.5	2696.2	2662.2	2701.0	2684.1
27.5°	2562.8	2555.6	2596.8	2599.2	2608.9	2630.7	2599.2	2613.7	2582.2	2618.6	2606.5
30°	2475.5	2468.3	2509.5	2511.9	2524.0	2541.0	2509.5	2528.9	2499.8	2536.2	2526.5
32.5°	2381.0	2376.1	2414.9	2419.8	2431.9	2444.0	2414.9	2434.3	2410.1	2446.4	2436.8
35°	2284.0	2279.1	2315.5	2322.8	2334.9	2344.6	2313.1	2339.8	2317.9	2351.9	2347.0
37.5°	2184.6	2177.3	2216.1	2221.0	2235.5	2240.4	2211.3	2242.8	2223.4	2257.3	2254.9
40°	2080.3	2073.1	2111.9	2116.7	2131.2	2131.2	2107.0	2140.9	2126.4	2157.9	2160.3
42.5°	1976.1	1968.8	2002.7	2012.4	2024.6	2024.6	2000.3	2036.7	2027.0	2058.5	2065.8
45°	1867.0	1859.7	1891.2	1900.9	1915.5	1915.5	1891.2	1932.4	1925.2	1956.7	1966.4
47.5°	1760.3	1750.6	1779.7	1789.4	1803.9	1801.5	1782.1	1823.3	1820.9	1852.4	1869.4
50°	1643.9	1636.6	1665.7	1675.4	1692.4	1687.5	1673.0	1716.6	1716.6	1748.2	1772.4
52.5°	1529.9	1522.7	1551.8	1561.5	1576.0	1576.0	1561.5	1607.5	1614.8	1646.3	1675.4
55°	1413.6	1403.9	1433.0	1442.7	1459.6	1462.1	1449.9	1496.0	1510.5	1546.9	1578.4
57.5°	1297.2	1292.3	1316.6	1326.3	1348.1	1348.1	1340.8	1389.3	1408.7	1447.5	1483.9
60°	1178.4	1173.5	1195.3	1207.5	1231.7	1236.6	1231.7	1282.6	1309.3	1348.1	1389.3
62.5°	1059.6	1054.7	1076.5	1093.5	1120.2	1125.0	1127.5	1180.8	1209.9	1251.1	1297.2
65°	940.8	935.9	957.7	977.1	1008.6	1015.9	1023.2	1079.0	1112.9	1156.5	1205.0
67.5°	821.9	819.5	841.3	865.6	899.5	909.2	921.4	979.5	1018.3	1064.4	1117.8
70°	705.6	703.1	725.0	754.1	795.3	807.4	821.9	880.1	928.6	977.1	1030.5
72.5°	589.2	591.6	615.9	649.8	695.9	708.0	727.4	788.0	841.3	892.3	948.0
75°	482.5	482.5	509.2	548.0	598.9	615.9	637.7	700.7	756.5	809.8	868.0
77.5°	373.4	373.4	404.9	453.4	509.2	526.1	552.8	618.3	678.9	732.2	790.4
80°	274.0	278.8	315.2	363.7	421.9	443.7	475.2	540.7	606.2	659.5	717.7
82.5°	186.7	194.0	232.8	288.5	346.7	368.5	400.1	470.4	535.8	591.6	652.2
85°	111.5	123.7	164.9	220.6	281.3	305.5	339.4	404.9	470.4	526.1	586.8
87.5°	50.9	67.9	111.5	167.3	225.5	252.2	281.3	344.3	409.8	465.5	528.6
90°	4.8	29.1	72.7	121.2	177.0	201.2	230.3	291.0	354.0	404.9	465.5
92.5°	0.0	12.1	43.6	87.3	135.8	160.0	186.7	244.9	300.7	351.6	409.8
95°	0.0	4.8	24.2	60.6	101.8	123.7	147.9	201.2	257.0	305.5	358.8
97.5°	0.0	2.4	14.5	41.2	75.2	94.6	116.4	164.9	215.8	261.9	310.4
100°	0.0	2.4	7.3	26.7	55.8	70.3	92.1	133.4	179.4	220.6	269.1
102.5°	0.0	0.0	4.8	17.0	41.2	53.3	70.3	106.7	147.9	186.7	230.3
105°	0.0	0.0	2.4	12.1	29.1	38.8	53.3	84.9	121.2	155.2	196.4
107.5°	0.0	0.0	2.4	7.3	19.4	29.1	41.2	65.5	97.0	128.5	164.9
110°	2.4	2.4	2.4	4.8	14.5	21.8	29.1	50.9	80.0	106.7	138.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.4	2.4	2.4	2.4	9.7	14.5	21.8	38.8	63.0	84.9	114.0
115°	2.4	2.4	2.4	2.4	7.3	9.7	14.5	29.1	48.5	67.9	92.1
117.5°	2.4	2.4	2.4	2.4	4.8	7.3	9.7	21.8	36.4	53.3	75.2
120°	2.4	2.4	2.4	2.4	2.4	4.8	7.3	14.5	29.1	41.2	60.6
122.5°	2.4	2.4	2.4	2.4	2.4	4.8	4.8	12.1	21.8	31.5	46.1
125°	2.4	2.4	2.4	2.4	2.4	2.4	4.8	7.3	14.5	24.2	36.4
127.5°	2.4	2.4	2.4	2.4	2.4	2.4	4.8	7.3	9.7	17.0	26.7
130°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	7.3	12.1	19.4
132.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	7.3	9.7	14.5
135°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	7.3	9.7
137.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	7.3
140°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8
142.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8
145°	2.4	4.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
147.5°	2.4	4.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
150°	2.4	4.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
152.5°	4.8	4.8	4.8	4.8	4.8	2.4	2.4	2.4	2.4	2.4	2.4
155°	4.8	4.8	4.8	4.8	4.8	4.8	2.4	2.4	2.4	2.4	2.4
157.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	2.4	2.4	2.4
160°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	2.4	2.4	2.4
162.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	2.4	2.4	2.4
165°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	2.4	2.4
167.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	2.4
170°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
172.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	2.4
175°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
177.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
180°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7
2.5°	3084.1	3091.4	3098.7	3079.3	3091.4	3113.2	3120.5	3091.4	3101.1	3081.7
5°	3074.4	3079.3	3089.0	3064.7	3081.7	3101.1	3113.2	3089.0	3103.5	3089.0
7.5°	3055.0	3059.9	3072.0	3047.8	3069.6	3086.6	3101.1	3076.9	3091.4	3076.9
10°	3025.9	3033.2	3050.2	3021.1	3047.8	3062.3	3076.9	3050.2	3064.7	3050.2
12.5°	2989.6	3001.7	3016.2	2989.6	3016.2	3028.4	3047.8	3021.1	3038.1	3025.9
15°	2945.9	2958.0	2977.4	2950.8	2984.7	2994.4	3013.8	2987.1	3004.1	2992.0
17.5°	2895.0	2909.6	2933.8	2902.3	2941.1	2948.3	2967.7	2943.5	2960.5	2948.3
20°	2836.8	2851.4	2875.6	2846.5	2885.3	2890.2	2912.0	2890.2	2907.1	2899.9
22.5°	2768.9	2785.9	2810.1	2783.5	2824.7	2824.7	2851.4	2829.5	2848.9	2841.7
25°	2698.6	2718.0	2744.7	2715.6	2759.2	2759.2	2788.3	2766.5	2785.9	2781.0
27.5°	2623.4	2645.3	2676.8	2647.7	2691.3	2688.9	2718.0	2698.6	2720.4	2713.2
30°	2543.4	2567.7	2599.2	2575.0	2621.0	2616.2	2645.3	2628.3	2647.7	2645.3
32.5°	2456.1	2482.8	2521.6	2494.9	2541.0	2536.2	2572.5	2553.1	2577.4	2572.5
35°	2368.9	2398.0	2436.8	2412.5	2463.4	2456.1	2492.5	2475.5	2499.8	2497.4
37.5°	2279.1	2310.7	2349.5	2330.1	2378.6	2371.3	2410.1	2395.5	2422.2	2414.9
40°	2187.0	2218.5	2259.8	2242.8	2293.7	2284.0	2325.2	2313.1	2339.8	2334.9
42.5°	2094.9	2128.8	2170.0	2160.3	2208.8	2199.1	2240.4	2230.7	2257.3	2252.5
45°	2000.3	2036.7	2080.3	2070.6	2121.5	2111.9	2153.1	2145.8	2172.5	2170.0
47.5°	1905.8	1944.6	1988.2	1983.3	2031.8	2022.1	2065.8	2058.5	2085.2	2085.2
50°	1808.8	1852.4	1896.1	1893.6	1942.1	1932.4	1971.2	1971.2	2000.3	1997.9
52.5°	1711.8	1757.9	1803.9	1803.9	1852.4	1842.7	1886.4	1883.9	1913.0	1913.0
55°	1619.7	1660.9	1706.9	1716.6	1762.7	1748.2	1794.2	1799.1	1823.3	1825.7
57.5°	1527.5	1571.2	1617.2	1629.3	1673.0	1663.3	1706.9	1711.8	1736.0	1738.5
60°	1435.4	1476.6	1522.7	1539.6	1583.3	1573.6	1617.2	1622.1	1648.7	1651.2
62.5°	1343.2	1384.5	1435.4	1452.4	1493.6	1486.3	1532.4	1537.2	1561.5	1566.3
65°	1253.5	1297.2	1345.7	1369.9	1408.7	1399.0	1445.1	1449.9	1476.6	1479.0
67.5°	1166.2	1209.9	1258.4	1285.1	1321.4	1316.6	1360.2	1369.9	1391.7	1396.6
70°	1081.4	1125.0	1175.9	1202.6	1239.0	1236.6	1277.8	1285.1	1309.3	1311.7
72.5°	998.9	1042.6	1093.5	1125.0	1156.5	1154.1	1195.3	1205.0	1229.3	1231.7
75°	918.9	965.0	1013.5	1047.4	1079.0	1076.5	1117.8	1127.5	1149.3	1151.7
77.5°	843.8	889.8	940.8	974.7	1001.4	1003.8	1040.2	1049.9	1071.7	1079.0
80°	773.5	817.1	865.6	902.0	926.2	931.1	965.0	977.1	994.1	1003.8
82.5°	705.6	749.2	797.7	831.6	855.9	860.7	892.3	906.8	923.8	931.1
85°	640.1	683.7	729.8	766.2	788.0	790.4	821.9	836.5	851.0	863.2
87.5°	577.1	620.7	664.3	703.1	722.5	727.4	756.5	771.0	783.2	795.3
90°	514.0	557.7	601.3	637.7	657.1	659.5	691.0	705.6	717.7	727.4
92.5°	455.8	499.5	543.1	579.5	596.5	601.3	628.0	645.0	654.6	664.3
95°	400.1	443.7	482.5	521.3	538.3	545.5	569.8	584.3	596.5	601.3
97.5°	351.6	390.4	426.7	465.5	480.1	487.4	511.6	528.6	538.3	543.1
100°	305.5	341.9	375.8	412.2	426.7	434.0	455.8	470.4	480.1	487.4
102.5°	264.3	298.2	329.7	363.7	378.2	383.1	402.5	417.0	426.7	434.0
105°	227.9	259.4	288.5	320.1	332.2	339.4	356.4	368.5	378.2	383.1
107.5°	194.0	225.5	249.7	278.8	291.0	295.8	312.8	327.3	334.6	337.0
110°	164.9	191.5	215.8	240.0	254.6	259.4	274.0	286.1	293.4	295.8



TEST NUMBER: P895503

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	138.2	162.5	184.3	206.1	218.2	223.1	237.6	249.7	254.6	257.0
115°	114.0	138.2	155.2	177.0	186.7	191.5	203.7	215.8	218.2	223.1
117.5°	92.1	114.0	130.9	147.9	157.6	162.5	172.1	181.8	186.7	189.1
120°	75.2	92.1	106.7	123.7	130.9	135.8	145.5	155.2	157.6	160.0
122.5°	60.6	75.2	87.3	101.8	109.1	114.0	121.2	128.5	130.9	133.4
125°	46.1	60.6	70.3	82.4	89.7	92.1	99.4	106.7	109.1	111.5
127.5°	36.4	46.1	55.8	65.5	70.3	72.7	80.0	84.9	87.3	89.7
130°	26.7	33.9	41.2	50.9	55.8	58.2	63.0	67.9	70.3	70.3
132.5°	19.4	26.7	31.5	38.8	41.2	43.6	48.5	53.3	53.3	55.8
135°	12.1	17.0	21.8	26.7	31.5	31.5	36.4	38.8	41.2	41.2
137.5°	9.7	12.1	14.5	19.4	21.8	24.2	24.2	29.1	29.1	29.1
140°	7.3	9.7	9.7	12.1	14.5	17.0	17.0	19.4	19.4	19.4
142.5°	4.8	7.3	7.3	9.7	9.7	12.1	12.1	12.1	14.5	14.5
145°	4.8	4.8	4.8	7.3	7.3	7.3	7.3	9.7	9.7	9.7
147.5°	2.4	2.4	4.8	4.8	4.8	4.8	4.8	7.3	7.3	7.3
150°	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8	4.8	4.8
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
157.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
160°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
162.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
165°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
167.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
170°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
172.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
175°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0
177.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0
180°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



TEST NUMBER: P895503
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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	18.62	20.15	19.09	20.61	21.10	20.19	21.72	20.66	22.18	22.67
	3H	20.29	21.70	20.78	22.16	22.69	22.81	24.22	23.30	24.68	25.21
	4H	20.89	22.22	21.40	22.71	23.25	24.12	25.46	24.63	25.94	26.48
	6H	21.29	22.53	21.81	23.03	23.58	25.53	26.77	26.05	27.27	27.82
	8H	21.41	22.59	21.94	23.12	23.68	26.28	27.47	26.81	27.99	28.55
	12H	21.48	22.62	22.02	23.14	23.73	27.13	28.27	27.66	28.78	29.38
4H	2H	19.54	20.87	20.05	21.36	21.90	20.74	22.07	21.24	22.55	23.10
	3H	21.52	22.66	22.04	23.19	23.75	23.66	24.79	24.17	25.32	25.88
	4H	22.30	23.34	22.84	23.88	24.47	25.18	26.22	25.72	26.76	27.35
	6H	22.88	23.80	23.44	24.36	24.97	26.82	27.74	27.38	28.31	28.92
	8H	23.06	23.93	23.62	24.49	25.11	27.70	28.57	28.27	29.14	29.76
	12H	23.19	23.97	23.77	24.57	25.19	28.71	29.50	29.29	30.09	30.72
8H	4H	23.18	24.05	23.74	24.61	25.23	25.54	26.41	26.10	26.97	27.59
	6H	24.06	24.80	24.65	25.40	26.03	27.44	28.18	28.04	28.79	29.41
	8H	24.41	25.07	25.01	25.69	26.33	28.53	29.19	29.13	29.81	30.45
	12H	24.68	25.27	25.29	25.88	26.59	29.79	30.39	30.40	30.99	31.70
12H	4H	23.46	24.24	24.04	24.84	25.46	25.58	26.37	26.17	26.96	27.59
	6H	24.51	25.18	25.11	25.79	26.43	27.55	28.22	28.16	28.84	29.48
	8H	25.03	25.62	25.64	26.23	26.93	28.75	29.34	29.36	29.95	30.66