Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMARK

Report Number: P1449835

Luminaire Tested: **TWC100_T3_60W_5000K**

Issue Date: 5/19/2026

Report Generated By 670246072

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449835
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20260310005)
Test Lab:	INNOVATION CENTER
Issue Date:	5/19/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	TWC100_T3_60W_5000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 60W 5000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10436 lumens
Efficiency:	N/A
Efficacy:	182.1 lumens/watt
Luminous Opening:	Rectangular (W 0.92' x L: 0.42' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U3 - G2

Input Watts (W):	57.3
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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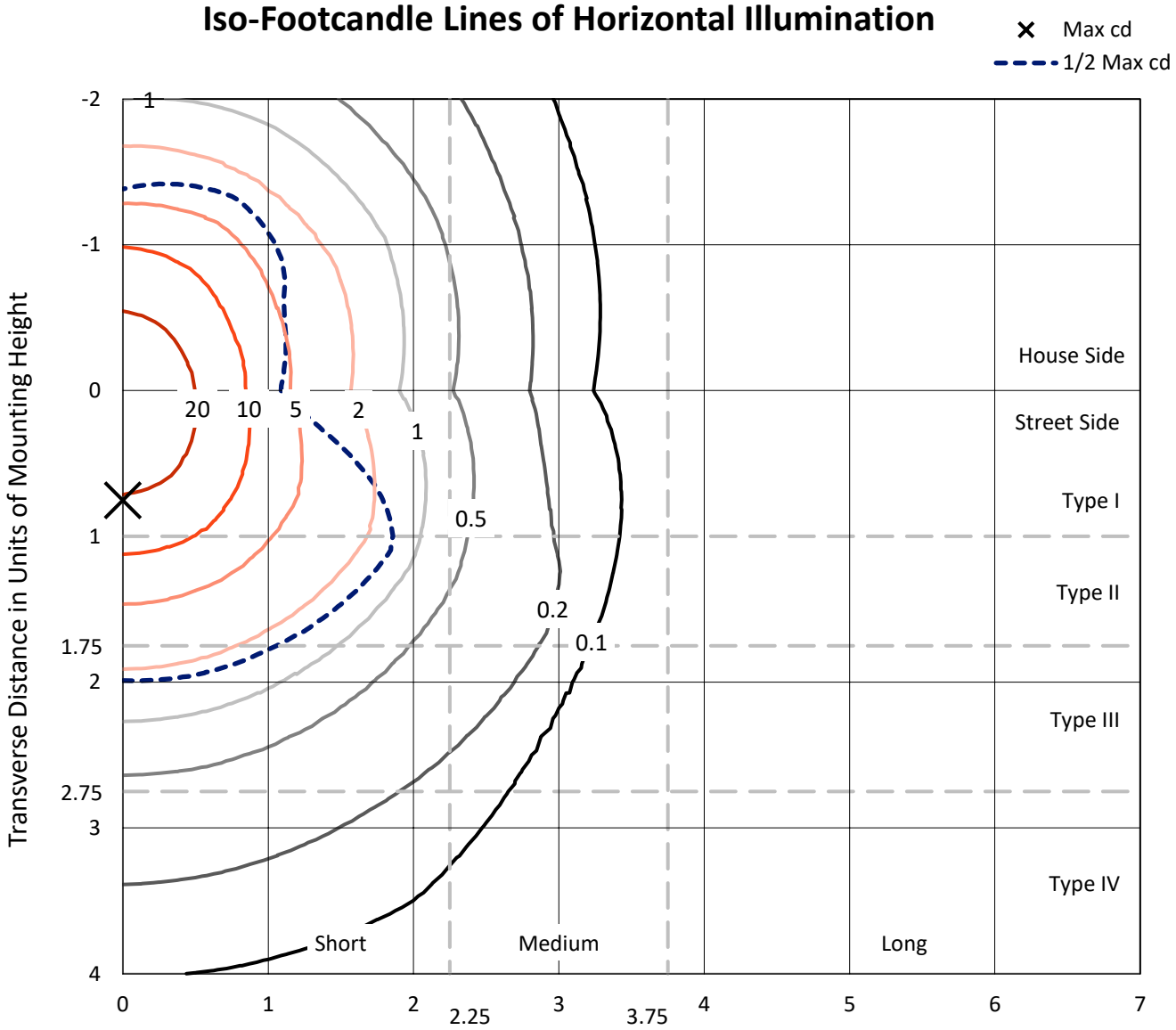
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 31.8 fc
Type III - Short - N/A

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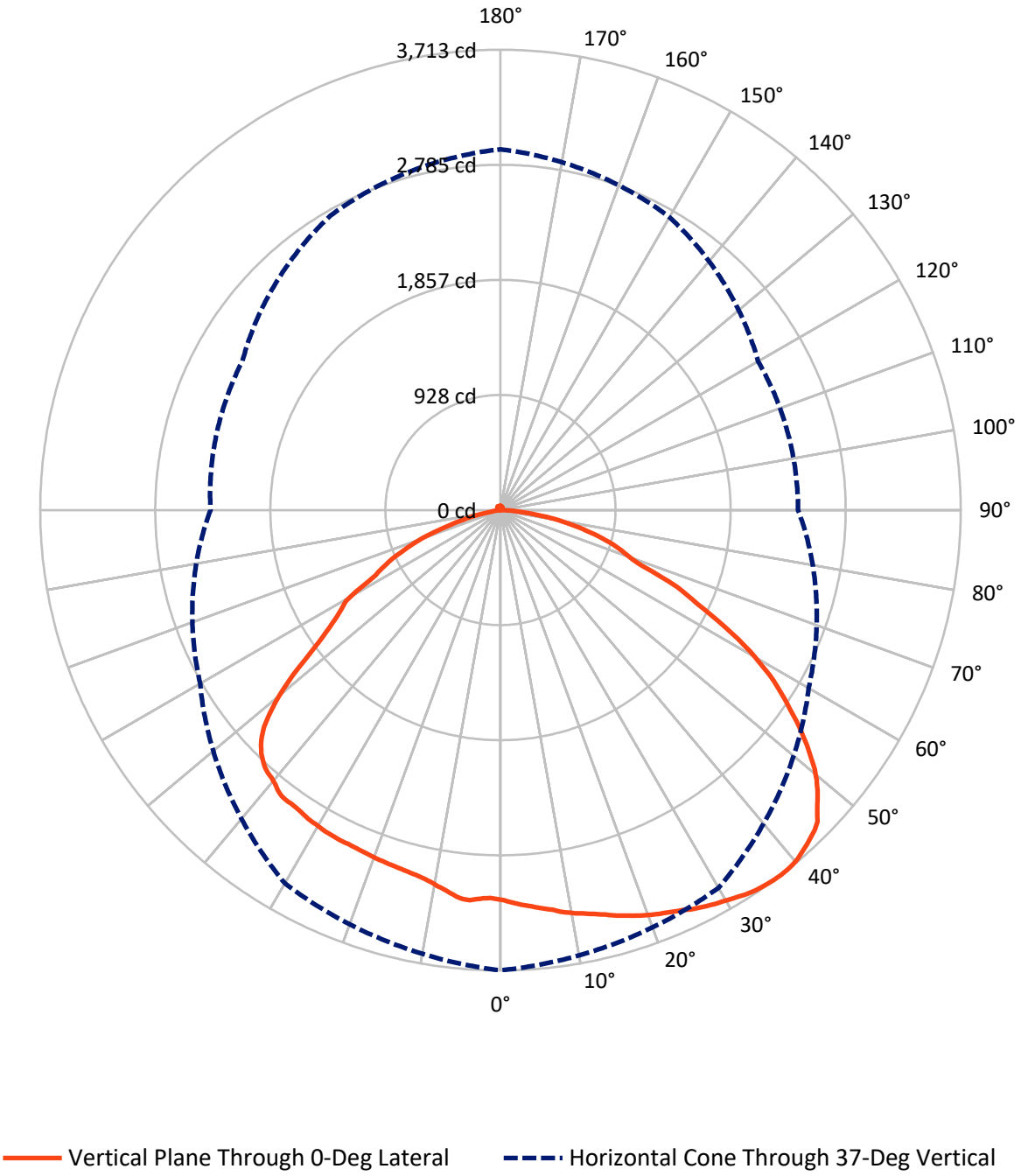
Luminous Intensity Polar Plot



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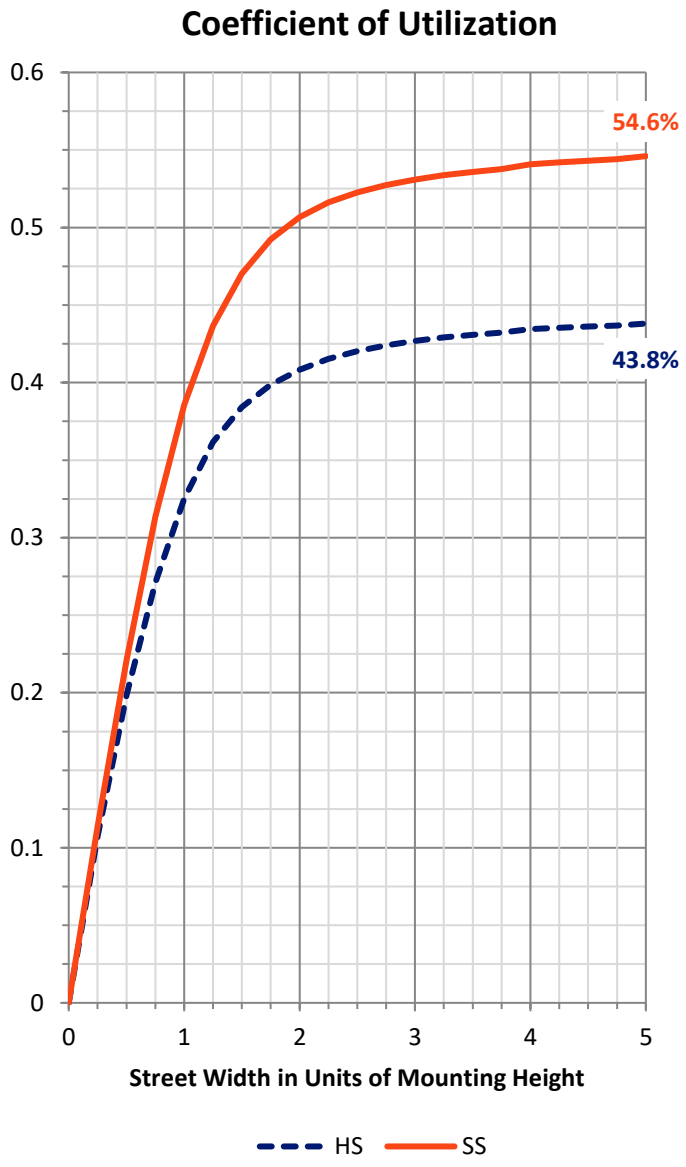
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4596.4	62.6	4659.0
	% Fixture	44.0	0.6	44.6
Street Side	Lumens	5727.1	49.9	5777.0
	% Fixture	54.9	0.5	55.4
Total	Lumens	10323.5	112.5	10436.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.4	2.9
10°-20°	882.4	8.5
20°-30°	1401.1	13.4
30°-40°	1814.7	17.4
40°-50°	2040.2	19.5
50°-60°	1887.0	18.1
60°-70°	1291.1	12.4
70°-80°	575.7	5.5
80°-90°	129.9	1.2
90°-100°	5.4	0.1
100°-110°	10.2	0.1
110°-120°	15.1	0.1
120°-130°	18.5	0.2
130°-140°	19.3	0.2
140°-150°	17.7	0.2
150°-160°	14.1	0.1
160°-170°	9.0	0.1
170°-180°	3.1	0.0
0°-90°	10323.5	98.9
0°-180°	10436.0	100.0



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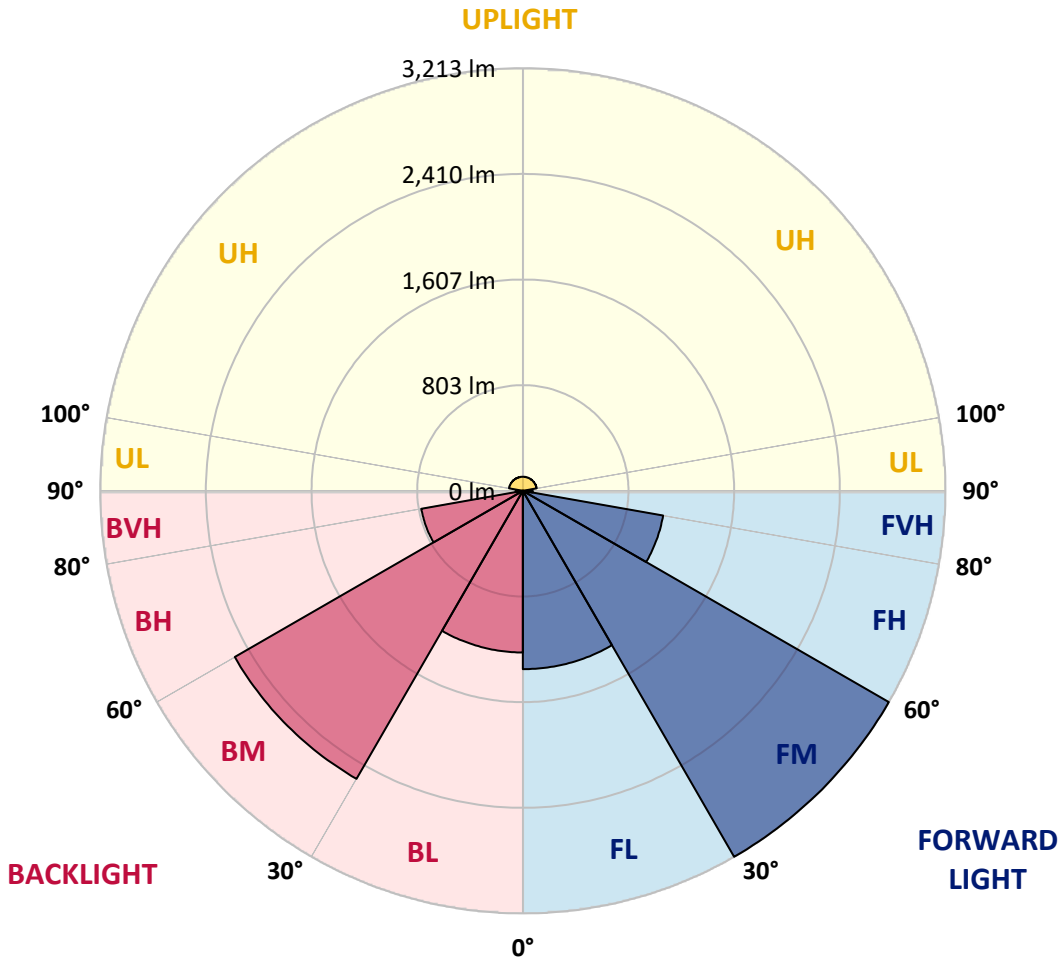
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1355.9	13.0			
FM	(30°-60°)	3213.2	30.8			
FH	(60°-80°)	1082.8	10.4			G1/1800
FVH	(80°-90°)	75.2	0.7			G1/100
BL	(0°-30°)	1229.0	11.8	B3/2500		
BM	(30°-60°)	2528.7	24.2	B3/5000		
BH	(60°-80°)	784.0	7.5	B2/1000		G2/1000
BVH	(80°-90°)	54.7	0.5			G1/100
UL	(90°-100°)	5.4	0.1		U1/10	
UH	(100°-180°)	107.0	1.0		U3/500	

BUG Rating: B3-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4
1°	3164.0	3157.6	3155.0	3150.0	3138.6	3136.7	3137.3	3134.2	3139.2	3144.4	3157.7
2°	3178.8	3171.2	3161.4	3149.7	3131.2	3126.1	3131.0	3130.5	3130.4	3141.6	3164.2
3°	3194.9	3187.6	3166.5	3140.7	3123.1	3118.3	3134.7	3127.8	3123.5	3137.6	3169.4
4°	3207.9	3198.6	3171.1	3137.4	3114.5	3111.7	3145.2	3133.3	3117.1	3132.4	3169.0
5°	3223.5	3210.9	3176.6	3133.0	3111.7	3118.3	3157.7	3142.4	3108.3	3126.3	3171.0
6°	3238.9	3225.4	3178.2	3126.0	3105.6	3130.2	3153.7	3148.9	3107.1	3119.3	3172.7
7°	3252.6	3236.1	3185.6	3124.2	3101.6	3138.0	3137.7	3143.6	3108.0	3110.0	3173.8
8°	3275.8	3248.2	3187.2	3116.5	3103.0	3137.5	3114.9	3126.5	3110.3	3100.2	3175.4
9°	3291.9	3259.5	3187.6	3105.9	3103.7	3121.0	3092.8	3102.7	3118.9	3090.1	3174.4
10°	3308.0	3267.1	3180.7	3091.4	3106.4	3094.4	3076.2	3079.9	3115.5	3079.3	3172.3
11°	3320.4	3277.8	3179.5	3079.8	3100.6	3065.2	3053.6	3059.4	3106.0	3066.2	3171.5
12°	3336.4	3289.4	3178.8	3067.1	3092.8	3046.6	3039.1	3043.2	3082.9	3051.0	3167.9
13°	3353.0	3307.8	3175.9	3050.9	3078.7	3028.0	3026.8	3022.4	3057.1	3029.5	3163.8
14°	3370.5	3318.2	3176.6	3035.7	3055.2	3009.9	3018.4	3006.4	3026.8	3012.3	3159.1
15°	3393.8	3329.6	3172.3	3020.0	3027.4	2991.6	3011.5	2993.2	2999.0	2994.8	3149.3
16°	3411.2	3339.1	3169.2	3003.7	2998.5	2977.3	3004.2	2981.2	2971.7	2980.2	3143.9
17°	3431.2	3352.8	3165.4	2985.4	2971.0	2966.0	2997.9	2967.1	2946.1	2962.4	3137.6
18°	3450.4	3363.7	3158.9	2966.0	2936.9	2954.5	2993.4	2955.3	2921.8	2942.9	3134.7
19°	3468.5	3375.8	3152.0	2946.4	2910.3	2943.4	2988.7	2946.1	2894.4	2922.8	3126.0
20°	3484.5	3386.3	3145.5	2919.8	2883.0	2930.8	2984.0	2938.6	2869.7	2898.3	3116.6
21°	3500.6	3396.1	3131.8	2898.7	2855.8	2915.0	2979.1	2928.4	2843.6	2877.8	3106.3
22°	3514.4	3404.8	3122.5	2876.8	2830.5	2903.6	2971.6	2918.5	2819.8	2859.2	3088.3
23°	3530.8	3417.5	3111.2	2858.0	2804.5	2892.9	2967.9	2908.2	2790.6	2838.3	3075.1
24°	3546.5	3426.2	3100.4	2836.7	2779.5	2882.7	2964.8	2894.6	2768.1	2820.0	3061.0
25°	3569.2	3434.2	3092.7	2815.4	2752.8	2875.5	2960.9	2885.9	2742.1	2802.6	3047.5
26°	3585.9	3442.1	3079.4	2795.2	2727.2	2867.0	2962.1	2875.7	2718.4	2781.5	3030.7
27°	3600.9	3444.8	3065.5	2771.2	2700.8	2855.8	2958.6	2864.9	2692.7	2758.2	3014.2
28°	3617.5	3453.1	3042.3	2749.1	2673.8	2841.2	2955.4	2855.2	2666.7	2732.4	2997.0
29°	3630.1	3460.9	3026.2	2725.6	2639.7	2828.7	2953.1	2844.9	2640.0	2703.8	2977.8
30°	3645.6	3467.0	3009.9	2698.9	2612.0	2816.5	2945.9	2834.4	2606.7	2668.3	2958.9
31°	3660.6	3479.4	2993.7	2665.3	2583.0	2805.6	2940.7	2822.1	2578.9	2619.4	2938.8
32°	3678.5	3488.0	2976.6	2631.0	2553.8	2791.5	2935.6	2812.5	2552.3	2574.1	2918.9
33°	3689.3	3495.5	2958.7	2593.3	2526.8	2780.6	2929.2	2801.9	2525.0	2527.4	2891.0
34°	3699.2	3503.6	2939.2	2548.4	2497.4	2769.2	2919.1	2791.5	2495.3	2481.0	2868.4
35°	3706.3	3508.7	2918.9	2498.5	2468.4	2756.3	2912.8	2774.0	2465.3	2435.8	2844.4
36°	3710.7	3513.2	2894.3	2450.1	2437.8	2743.9	2908.2	2757.8	2434.1	2387.4	2819.7
37°	3713.3	3518.2	2871.1	2401.1	2399.7	2727.9	2909.9	2742.7	2404.0	2339.2	2797.9
38°	3711.5	3519.0	2848.1	2350.3	2366.9	2711.7	2904.8	2731.4	2370.8	2283.1	2772.4
39°	3705.8	3518.1	2825.1	2289.8	2334.8	2700.0	2886.0	2727.0	2338.3	2233.4	2747.5
40°	3696.2	3512.3	2796.6	2239.3	2301.5	2690.7	2861.1	2718.8	2305.6	2183.8	2715.9
41°	3676.6	3505.9	2776.2	2188.7	2265.1	2677.4	2841.3	2698.8	2271.5	2134.8	2690.7
42°	3658.7	3497.5	2755.1	2138.9	2230.7	2658.9	2832.3	2668.9	2230.9	2086.4	2667.1
43°	3638.4	3481.8	2734.8	2086.3	2195.8	2627.2	2813.3	2645.2	2195.6	2031.9	2644.6
44°	3617.0	3464.0	2719.1	2034.5	2158.9	2610.8	2784.6	2633.6	2158.6	1982.8	2621.7

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REPORT NUMBER: P1449835
CATALOG NUMBER: TWC100_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3585.9	3442.9	2701.5	1984.1	2117.7	2598.4	2752.1	2613.6	2121.9	1932.8	2602.3
46°	3522.9	3419.0	2685.4	1926.8	2077.7	2579.9	2708.6	2585.4	2089.3	1878.7	2582.9
47°	3469.6	3383.2	2663.8	1874.2	2041.2	2551.9	2654.5	2552.5	2062.1	1826.4	2565.1
48°	3414.5	3336.2	2648.6	1820.5	2011.6	2516.9	2588.3	2519.4	2028.8	1774.1	2546.6
49°	3354.1	3269.5	2632.7	1766.8	1975.6	2483.2	2492.7	2482.8	1975.0	1720.6	2529.7
50°	3285.1	3216.3	2617.0	1712.2	1929.5	2448.4	2390.4	2430.8	1934.5	1658.9	2512.1
51°	3200.7	3163.8	2601.7	1651.9	1883.4	2405.2	2269.3	2369.2	1901.0	1604.8	2494.1
52°	3115.4	3095.0	2584.6	1597.5	1848.9	2341.2	2138.6	2296.1	1864.3	1551.1	2476.2
53°	3025.9	3015.7	2565.7	1541.8	1813.4	2272.4	1989.9	2208.6	1821.8	1495.7	2451.4
54°	2934.3	2915.9	2545.9	1482.8	1773.8	2188.6	1866.4	2104.8	1781.1	1436.3	2430.0
55°	2833.2	2823.7	2525.8	1426.6	1732.0	2080.9	1760.9	1971.8	1739.2	1379.8	2409.4
56°	2742.8	2723.0	2505.6	1369.1	1683.0	1965.7	1676.0	1843.6	1694.8	1321.8	2391.2
57°	2648.5	2609.9	2482.7	1302.9	1637.9	1840.9	1601.3	1719.0	1644.9	1261.8	2367.7
58°	2548.4	2504.9	2449.6	1242.8	1590.1	1713.5	1543.2	1608.6	1594.3	1203.1	2341.8
59°	2426.8	2400.0	2388.7	1183.5	1538.9	1585.2	1491.8	1513.3	1543.1	1136.7	2297.6
60°	2310.1	2294.1	2339.4	1124.0	1480.8	1493.9	1444.7	1443.4	1489.4	1077.0	2238.5
61°	2182.6	2179.6	2287.9	1060.1	1427.9	1422.5	1342.0	1386.9	1426.2	1017.4	2189.2
62°	2040.9	2070.3	2211.2	1003.3	1371.6	1364.0	1215.7	1336.9	1371.7	953.3	2128.0
63°	1896.2	1961.2	2117.4	946.4	1309.4	1311.4	1134.6	1282.4	1313.1	901.9	2044.3
64°	1760.1	1847.6	2003.8	888.9	1251.2	1263.9	1081.1	1190.5	1245.4	851.3	1929.0
65°	1657.0	1702.1	1871.1	830.2	1189.5	1176.0	1025.2	1094.9	1161.4	795.0	1801.6
66°	1554.1	1558.4	1698.5	777.0	1119.2	1073.6	968.9	1038.6	1067.1	737.5	1650.6
67°	1398.6	1437.8	1524.4	717.8	1027.2	1024.2	906.8	998.2	958.5	683.8	1475.9
68°	1223.8	1323.0	1336.3	659.1	926.9	985.4	839.7	958.0	853.2	629.2	1272.1
69°	1133.9	1152.1	1146.7	596.0	817.0	946.0	777.9	911.7	757.0	566.3	1075.0
70°	1080.1	1010.4	971.1	541.4	712.4	896.4	712.9	860.4	694.7	510.7	885.4
71°	1029.7	948.7	850.1	487.0	640.8	851.5	645.8	815.6	651.1	457.5	743.2
72°	976.4	902.5	863.1	430.3	593.0	808.8	565.3	768.5	600.3	406.0	694.8
73°	918.6	860.7	938.5	380.6	547.8	760.3	490.7	718.9	549.0	352.5	816.2
74°	850.4	819.0	736.5	334.4	492.9	712.5	422.3	660.6	518.3	306.7	726.2
75°	782.8	774.5	480.8	291.4	462.1	663.2	361.2	601.0	489.3	265.1	434.8
76°	715.4	718.5	401.1	247.6	433.6	606.8	306.6	532.8	457.4	226.9	345.2
77°	644.5	664.7	353.2	213.2	400.0	532.6	262.8	465.2	425.6	190.6	302.6
78°	579.2	618.0	352.1	182.0	372.1	465.5	221.8	398.1	397.8	160.3	291.4
79°	512.2	575.8	348.6	154.6	345.6	402.8	170.5	346.4	370.7	133.5	309.0
80°	446.6	529.8	265.5	126.5	320.1	351.2	111.9	300.1	339.5	108.5	228.2
81°	374.8	481.8	184.6	101.4	291.0	300.1	70.4	250.5	309.7	85.7	154.2
82°	309.8	418.5	156.0	78.8	263.9	254.4	55.4	197.1	280.0	64.1	128.0
83°	245.1	342.3	135.9	57.6	235.5	197.7	42.7	122.4	247.9	48.6	110.6
84°	187.9	295.0	116.6	42.6	204.9	118.5	31.7	56.5	210.2	36.2	96.8
85°	128.1	247.7	99.2	30.8	174.2	46.3	25.2	28.9	174.3	25.3	82.4
86°	90.9	183.0	83.8	21.4	136.4	23.9	15.9	19.5	142.3	17.5	67.2
87°	54.1	122.1	60.3	12.7	108.2	14.5	10.0	12.1	100.9	11.4	46.1
88°	19.0	45.0	26.2	6.5	63.0	7.7	6.8	7.4	38.0	6.6	16.1
89°	2.3	2.5	2.5	2.7	16.3	3.8	5.4	5.5	5.4	3.6	4.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1.5	1.8	1.7	1.3	2.1	2.5	5.6	5.5	5.1	3.3	4.1
91°	1.5	2.0	1.9	1.5	2.3	2.7	6.0	5.9	5.6	3.6	4.6
92°	1.8	2.3	2.1	1.7	2.6	2.9	6.6	6.3	6.0	4.0	4.8
93°	2.1	2.4	2.3	1.9	2.8	3.3	7.1	7.1	6.5	4.4	5.2
94°	2.1	2.7	2.5	2.0	3.1	3.4	7.8	7.5	7.0	4.7	5.5
95°	2.4	2.9	2.8	2.1	3.6	3.7	8.3	8.2	7.5	5.1	5.9
96°	2.5	3.1	3.0	2.5	3.9	4.1	8.9	8.7	8.0	5.5	6.2
97°	2.9	3.5	3.3	2.5	4.1	4.6	9.7	9.3	8.6	6.0	6.7
98°	3.2	3.7	3.4	2.9	4.8	5.0	10.2	10.0	9.2	6.4	7.1
99°	3.3	4.1	3.9	3.2	5.2	5.3	11.0	10.8	9.9	6.7	7.5
100°	3.7	4.4	4.1	3.5	5.6	5.8	11.7	11.4	10.3	7.3	7.9
101°	4.2	4.7	4.4	3.9	5.9	6.3	12.4	12.1	11.0	7.6	8.2
102°	4.5	5.1	4.8	4.1	6.5	6.8	13.2	12.9	11.7	8.2	8.8
103°	4.8	5.6	5.1	4.6	6.8	7.2	14.0	13.5	12.4	8.6	9.2
104°	5.2	6.0	5.4	4.8	7.2	7.8	14.5	14.3	13.0	9.4	9.8
105°	5.7	6.2	5.8	5.2	7.8	8.3	15.4	15.1	13.5	9.7	10.3
106°	6.1	6.7	6.2	5.7	8.3	8.9	16.1	15.9	14.2	10.3	10.8
107°	6.6	7.1	6.7	6.1	8.7	9.5	17.0	16.7	14.9	10.9	11.3
108°	7.0	7.6	7.0	6.6	9.3	10.1	17.8	17.5	15.4	11.5	11.7
109°	7.5	8.1	7.5	7.0	10.0	10.9	18.6	18.3	16.3	11.9	12.2
110°	7.9	8.6	7.8	7.5	10.5	11.5	19.3	19.0	16.8	12.5	12.8
111°	8.6	9.0	8.1	7.9	11.0	12.1	20.5	20.1	17.4	13.1	13.3
112°	9.0	9.4	8.6	8.2	11.5	12.8	21.2	20.8	17.9	13.6	14.0
113°	9.5	10.1	9.0	8.8	12.0	13.7	21.9	21.5	18.6	14.3	14.1
114°	10.1	10.5	9.4	9.4	12.4	14.3	22.8	22.3	19.3	14.7	14.7
115°	10.6	11.1	9.9	9.8	13.0	14.9	23.5	22.8	19.7	15.4	15.3
116°	11.2	11.6	10.3	10.4	13.6	15.9	24.3	23.7	20.2	15.9	15.6
117°	11.9	12.2	10.6	10.7	14.0	16.3	25.0	24.3	20.9	16.5	16.2
118°	12.4	12.6	11.2	11.3	14.6	17.0	25.8	24.9	21.1	17.1	16.6
119°	12.9	13.2	11.7	11.7	15.1	17.8	26.5	25.6	21.7	17.8	17.2
120°	13.6	13.9	12.1	12.2	15.7	18.4	27.1	26.2	22.3	18.2	17.6
121°	14.1	14.3	12.4	12.8	16.2	19.3	27.7	26.8	22.7	18.8	18.2
122°	14.8	14.9	13.0	13.3	16.6	19.7	28.3	27.4	23.2	19.3	18.6
123°	15.4	15.2	13.6	13.7	17.2	20.4	28.9	27.7	23.9	19.8	19.1
124°	15.9	15.8	13.9	14.3	17.8	21.0	29.5	28.5	24.3	20.3	19.6
125°	16.5	16.3	14.4	14.8	18.3	21.4	30.0	28.8	24.7	20.9	20.1
126°	17.0	16.9	14.8	15.4	18.9	22.1	30.5	29.2	25.0	21.3	20.5
127°	17.7	17.3	15.4	15.8	19.3	22.7	30.8	29.5	25.5	21.6	20.9
128°	18.2	17.7	15.9	16.3	20.1	23.2	31.2	30.0	25.9	22.0	21.2
129°	18.9	18.3	16.3	16.9	20.5	23.9	31.6	30.4	26.5	22.7	21.7
130°	19.3	18.7	16.6	17.2	21.1	24.4	31.9	30.8	26.8	23.0	22.2
131°	19.7	19.2	17.1	17.8	21.6	24.7	32.3	31.1	27.3	23.4	22.7
132°	20.2	19.5	17.6	18.4	22.0	25.4	32.7	31.4	27.6	23.7	22.8
133°	20.7	20.1	18.0	18.7	22.6	25.8	32.9	31.6	28.1	24.3	23.4
134°	21.1	20.4	18.5	19.2	23.2	26.3	33.2	32.0	28.3	24.5	23.8

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449835
CATALOG NUMBER: TWC100_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	21.4	20.7	18.9	19.5	23.7	26.6	33.5	32.3	28.7	25.1	24.0
136°	21.9	21.1	19.3	20.1	24.3	27.3	33.7	32.5	28.9	25.4	24.5
137°	22.4	21.6	19.8	20.5	24.7	27.7	33.9	32.7	29.4	25.7	25.0
138°	22.8	22.0	20.1	21.0	25.2	28.1	34.1	32.9	29.6	26.0	25.1
139°	23.1	22.6	20.7	21.4	25.7	28.6	34.2	33.0	30.0	26.3	25.6
140°	23.5	22.8	21.0	21.8	26.1	28.9	34.6	33.1	30.1	26.8	26.0
141°	23.9	23.1	21.5	22.1	26.6	29.6	34.6	33.3	30.4	27.1	26.1
142°	24.4	23.5	21.8	22.4	27.0	29.7	34.6	33.5	30.5	27.4	26.5
143°	24.4	23.9	22.3	22.8	27.4	30.2	34.6	33.6	30.8	27.8	26.9
144°	25.0	24.3	22.7	23.4	27.7	30.6	34.6	33.7	31.1	28.0	27.1
145°	25.3	24.5	23.2	23.8	27.8	30.9	34.6	33.8	31.2	28.3	27.4
146°	25.7	24.8	23.5	24.1	28.3	31.3	34.6	33.9	31.4	28.6	27.7
147°	25.8	25.2	23.9	24.5	28.5	31.6	34.6	33.9	31.6	28.9	28.1
148°	26.2	25.5	24.3	24.9	28.8	32.0	34.6	34.0	31.6	29.3	28.4
149°	26.7	25.9	24.4	25.2	29.1	32.0	34.7	34.1	31.9	29.5	28.8
150°	27.0	26.2	24.9	25.6	29.4	32.3	34.8	34.1	32.0	29.9	28.9
151°	27.4	26.6	25.4	26.0	29.6	32.5	34.7	34.3	32.2	30.0	29.1
152°	27.7	26.9	25.8	26.4	29.8	32.7	34.7	34.3	32.3	30.3	29.5
153°	27.8	27.2	26.2	26.6	30.0	32.9	34.7	34.3	32.4	30.6	29.7
154°	28.3	27.4	26.5	27.0	30.3	33.1	34.6	34.1	32.7	30.8	29.8
155°	28.5	27.8	26.7	27.3	30.5	33.1	34.5	34.2	32.7	30.9	30.2
156°	28.7	27.8	27.1	27.7	30.6	33.1	34.3	34.1	32.8	31.2	30.4
157°	28.8	28.0	27.3	27.8	30.9	33.4	34.3	34.1	32.7	31.3	30.6
158°	29.1	28.3	27.5	28.2	30.9	33.5	34.1	34.2	32.9	31.5	30.8
159°	29.3	28.6	27.9	28.4	31.3	33.5	34.1	34.0	32.9	31.6	31.0
160°	29.3	28.8	28.2	28.9	31.5	33.5	33.9	34.0	32.9	31.8	30.9
161°	29.6	28.9	28.5	29.2	31.7	33.8	33.9	33.9	33.0	32.0	31.2
162°	29.8	29.3	28.8	29.7	32.0	33.8	33.8	33.9	33.0	32.1	31.6
163°	29.9	29.5	29.0	29.8	32.0	33.9	33.5	33.9	33.1	32.3	31.6
164°	30.1	29.5	29.3	30.0	32.2	34.0	33.5	33.7	33.1	32.3	31.6
165°	30.1	29.7	29.5	30.2	32.3	33.9	33.4	33.7	33.1	32.3	31.9
166°	30.4	30.0	29.7	30.4	32.5	34.0	33.4	33.7	33.1	32.6	32.1
167°	30.5	30.2	30.0	30.8	32.6	34.2	33.2	33.6	33.1	32.7	32.2
168°	30.8	30.4	30.3	31.1	32.7	34.1	33.2	33.5	33.3	32.9	32.4
169°	31.0	30.5	30.6	31.2	32.7	33.9	33.3	33.5	33.3	32.9	32.4
170°	31.2	30.8	30.8	31.5	32.9	34.2	33.3	33.4	33.5	33.1	32.7
171°	31.3	30.9	31.1	31.8	33.1	34.3	33.2	33.4	33.5	33.2	32.7
172°	31.7	31.2	31.3	32.0	33.1	34.0	33.3	33.4	33.2	33.2	32.7
173°	31.6	31.4	31.6	32.2	33.3	34.0	33.4	33.3	33.2	33.4	33.1
174°	31.9	31.6	31.6	32.4	33.5	33.9	33.5	33.3	33.2	33.4	33.2
175°	32.3	31.8	32.0	32.7	33.5	34.2	33.5	33.3	33.2	33.5	33.2
176°	32.5	32.0	32.2	32.8	33.5	33.9	33.4	33.1	33.2	33.5	33.4
177°	32.6	32.3	32.3	32.9	33.5	34.0	33.3	33.1	33.2	33.4	33.5
178°	33.0	32.3	32.6	33.1	33.5	33.9	33.4	33.0	33.1	33.5	33.5
179°	32.8	32.6	32.7	33.3	33.6	33.9	33.2	33.0	33.0	33.4	33.7

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449835
CATALOG NUMBER: TWC100_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*33.3*	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3

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Scaled Data Report

REPORT NUMBER: P1449835
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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	3148.4	3148.4
1°	3161.5	3164.0
2°	3174.2	3178.8
3°	3186.7	3194.9
4°	3198.4	3207.9
5°	3207.3	3223.5
6°	3218.6	3238.9
7°	3228.9	3252.6
8°	3245.9	3275.8
9°	3257.3	3291.9
10°	3267.6	3308.0
11°	3279.0	3320.4
12°	3284.3	3336.4
13°	3294.0	3353.0
14°	3304.7	3370.5
15°	3321.1	3393.8
16°	3332.0	3411.2
17°	3342.4	3431.2
18°	3353.3	3450.4
19°	3362.1	3468.5
20°	3372.3	3484.5
21°	3380.1	3500.6
22°	3386.5	3514.4
23°	3393.4	3530.8
24°	3400.3	3546.5
25°	3407.4	3569.2
26°	3420.6	3585.9
27°	3427.4	3600.9
28°	3434.0	3617.5
29°	3438.6	3630.1
30°	3439.7	3645.6
31°	3446.2	3660.6
32°	3452.0	3678.5
33°	3464.8	3689.3
34°	3470.6	3699.2
35°	3475.3	3706.3
36°	3478.8	3710.7
37°	*3478.0*	*3713.3*
38°	3478.8	3711.5
39°	3475.3	3705.8
40°	3468.4	3696.2
41°	3454.1	3676.6
42°	3442.4	3658.7
43°	3424.0	3638.4
44°	3404.8	3617.0

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449835
CATALOG NUMBER: TWC100_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3383.7	3585.9
46°	3357.8	3522.9
47°	3325.8	3469.6
48°	3270.3	3414.5
49°	3195.9	3354.1
50°	3145.0	3285.1
51°	3086.2	3200.7
52°	3013.5	3115.4
53°	2926.5	3025.9
54°	2836.1	2934.3
55°	2738.3	2833.2
56°	2634.7	2742.8
57°	2519.2	2648.5
58°	2412.6	2548.4
59°	2306.1	2426.8
60°	2185.3	2310.1
61°	2077.6	2182.6
62°	1971.1	2040.9
63°	1863.9	1896.2
64°	1742.3	1760.1
65°	1606.3	1657.0
66°	1468.7	1554.1
67°	1362.7	1398.6
68°	1226.1	1223.8
69°	1048.8	1133.9
70°	946.2	1080.1
71°	897.2	1029.7
72°	852.8	976.4
73°	810.6	918.6
74°	767.8	850.4
75°	722.3	782.8
76°	663.2	715.4
77°	612.6	644.5
78°	569.8	579.2
79°	529.2	512.2
80°	482.1	446.6
81°	433.9	374.8
82°	366.2	309.8
83°	304.7	245.1
84°	259.3	187.9
85°	198.5	128.1
86°	150.4	90.9
87°	85.2	54.1
88°	6.4	19.0
89°	4.2	2.3

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Scaled Data Report

REPORT NUMBER: P1449835
CATALOG NUMBER: TWC100_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	4.6	1.5
91°	4.8	1.5
92°	5.2	1.8
93°	5.6	2.1
94°	6.0	2.1
95°	6.5	2.4
96°	6.9	2.5
97°	7.5	2.9
98°	7.9	3.2
99°	8.4	3.3
100°	9.0	3.7
101°	9.5	4.2
102°	10.1	4.5
103°	10.5	4.8
104°	11.0	5.2
105°	11.7	5.7
106°	12.3	6.1
107°	12.8	6.6
108°	13.3	7.0
109°	13.7	7.5
110°	14.4	7.9
111°	14.9	8.6
112°	15.7	9.0
113°	16.2	9.5
114°	16.7	10.1
115°	17.3	10.6
116°	17.8	11.2
117°	18.6	11.9
118°	19.0	12.4
119°	19.5	12.9
120°	20.1	13.6
121°	20.5	14.1
122°	21.2	14.8
123°	21.3	15.4
124°	22.0	15.9
125°	22.4	16.5
126°	22.8	17.0
127°	23.1	17.7
128°	23.5	18.2
129°	23.7	18.9
130°	24.2	19.3
131°	24.5	19.7
132°	24.7	20.2
133°	25.1	20.7
134°	25.4	21.1

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Scaled Data Report

REPORT NUMBER: P1449835
CATALOG NUMBER: TWC100_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	25.9	21.4
136°	26.1	21.9
137°	26.3	22.4
138°	26.6	22.8
139°	26.9	23.1
140°	27.1	23.5
141°	27.4	23.9
142°	27.7	24.4
143°	28.0	24.4
144°	28.1	25.0
145°	28.2	25.3
146°	28.5	25.7
147°	28.5	25.8
148°	29.0	26.2
149°	29.3	26.7
150°	29.3	27.0
151°	29.4	27.4
152°	29.7	27.7
153°	29.7	27.8
154°	29.8	28.3
155°	30.0	28.5
156°	30.1	28.7
157°	30.3	28.8
158°	30.4	29.1
159°	30.6	29.3
160°	30.8	29.3
161°	31.0	29.6
162°	30.9	29.8
163°	31.1	29.9
164°	31.2	30.1
165°	31.3	30.1
166°	31.6	30.4
167°	31.7	30.5
168°	32.0	30.8
169°	32.0	31.0
170°	32.2	31.2
171°	32.5	31.3
172°	32.5	31.7
173°	32.7	31.6
174°	32.8	31.9
175°	33.1	32.3
176°	33.2	32.5
177°	33.4	32.6
178°	33.5	33.0
179°	33.6	32.8

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Scaled Data Report

REPORT NUMBER: P1449835
CATALOG NUMBER: TWC100_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	33.3	33.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-3

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-5000K

Data in this report applies to families of products including ;MWP2460W34VDDKYYAD

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

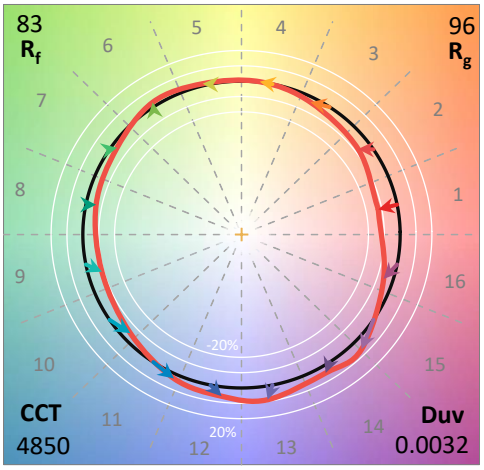
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2601-659-3
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	02/16/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Lumark
Catalog Number:	**MWP2460W34VDDKYYAD-T4-24W-5000K**
Description:	Mester Wedge, at T4 beam setting, 24W output, 5000K

Spectral Parameters

CCT (K):	4850
CIE u':	0.2108
CIE v':	0.4905
Duv:	0.0032
CIE x:	0.3503
CIE y:	0.3623
CIE z:	0.2875
Peak Wavelength (nm):	452
Dominant Wavelength (nm):	571
Purity:	13.81051
Rf:	83.1
Rg:	95.8

CRI (Ra):	82.6
R1:	80.9
R2:	87.6
R3:	92.0
R4:	81.9
R5:	80.4
R6:	82.0
R7:	88.2
R8:	67.7
R9:	8.5
R10:	69.7
R11:	80.6
R12:	52.2
R13:	82.7
R14:	95.7
R15:	74.9



Test Conditions

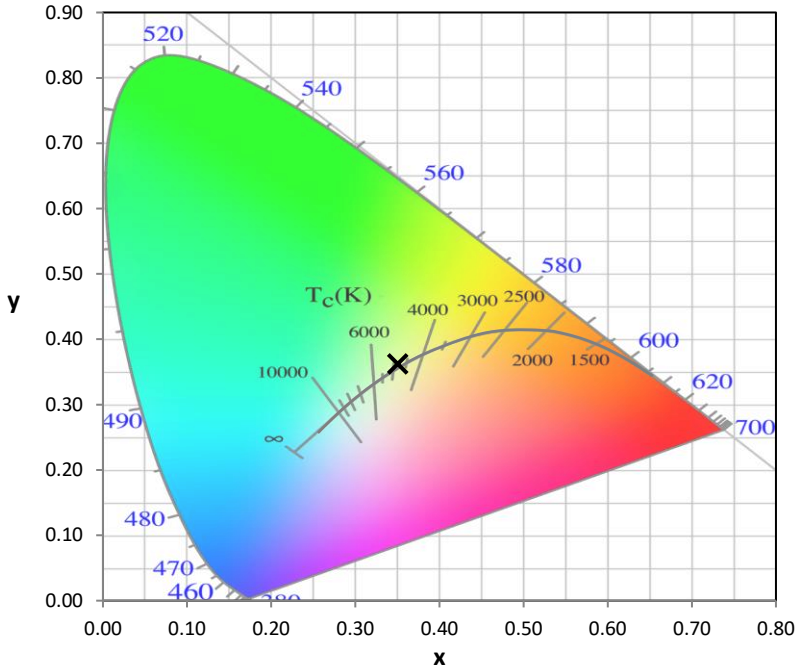
Stabilization Time:	25M
Operation Time:	1H 25M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-3

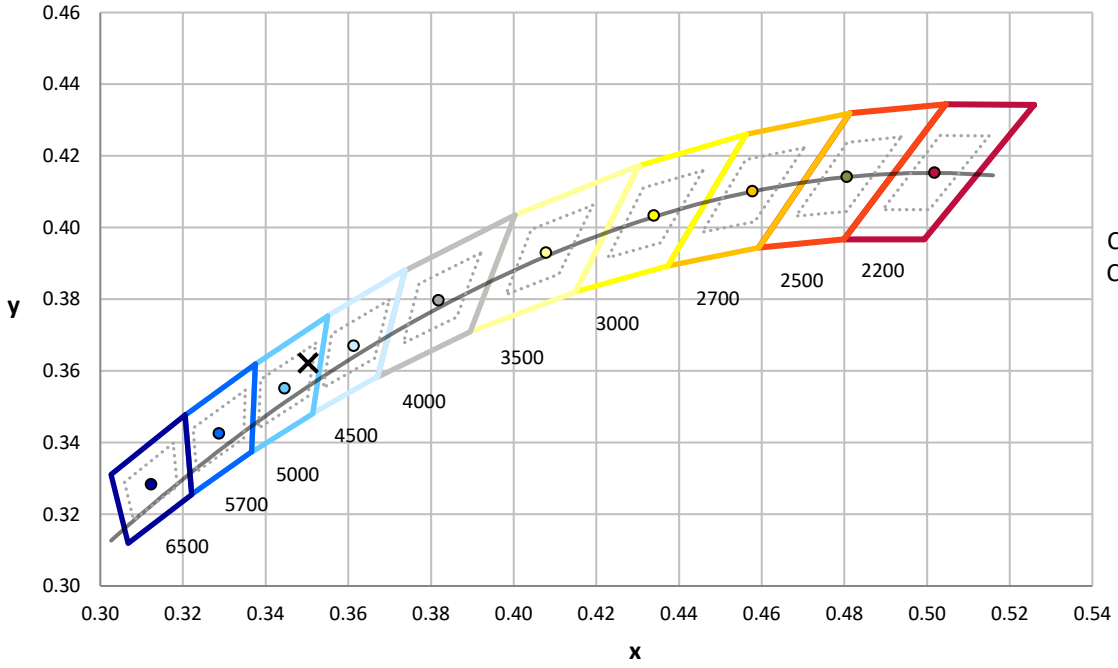
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2601-659-3

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

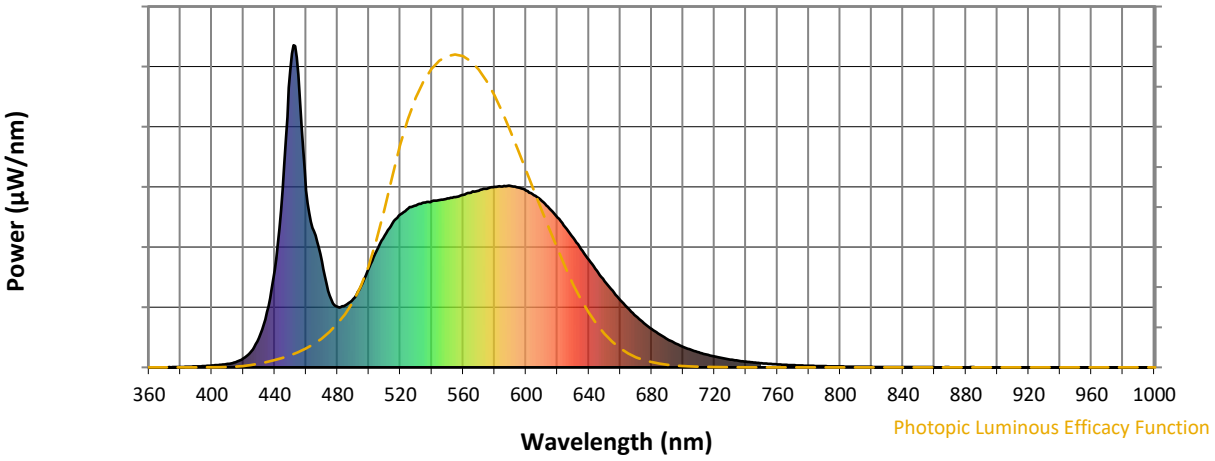


CCT = 4850K
CIE x = 0.3503
CIE y = 0.3623
Duv = 0.0032

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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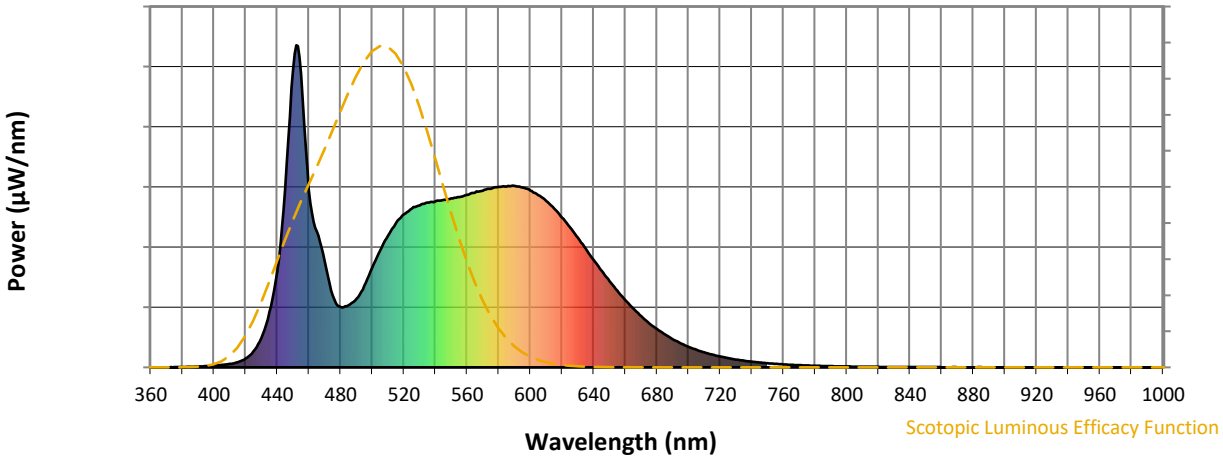
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.9**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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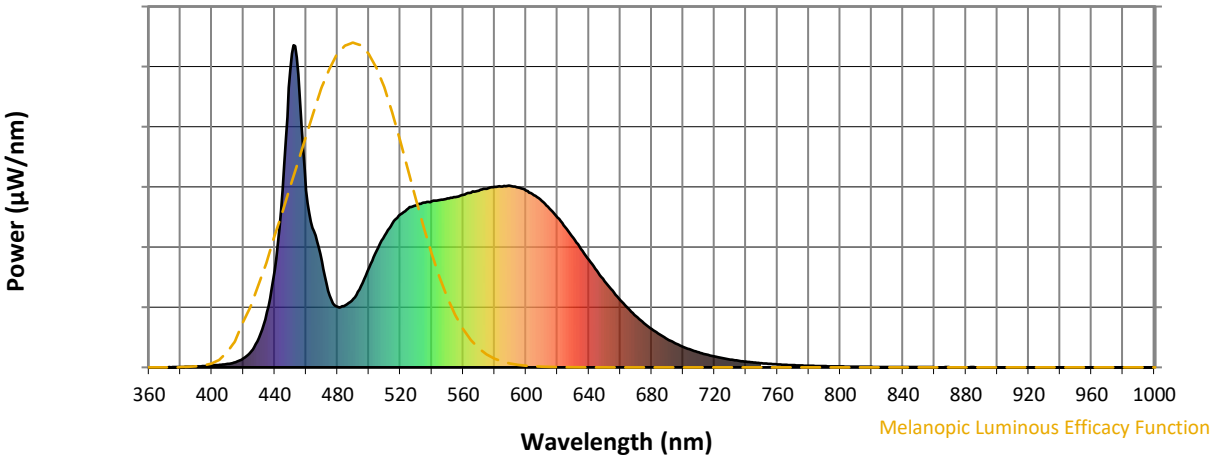
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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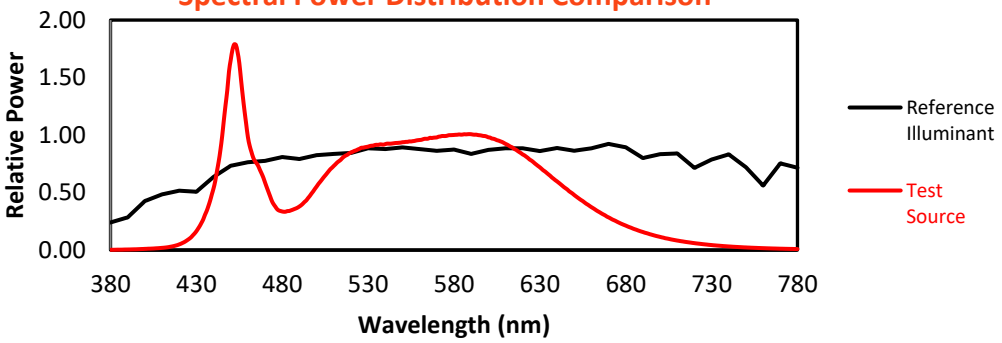
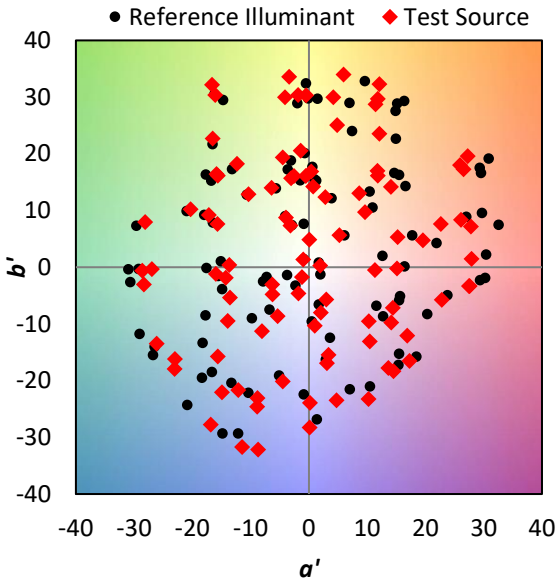
Summary

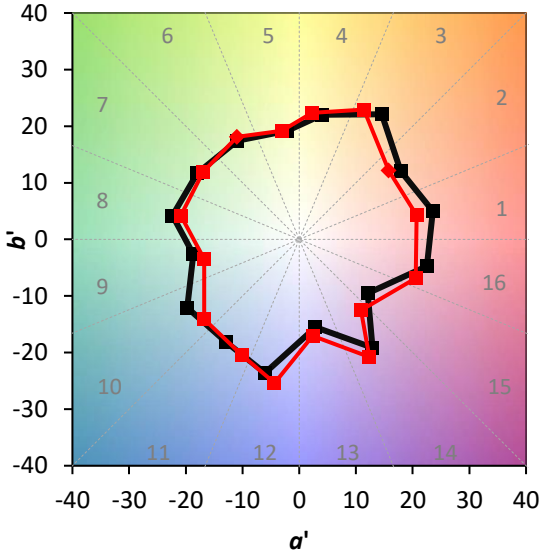
R_f = 83.1
R_g = 95.8
CIE R_a = 82.6
R_9 = 8.5

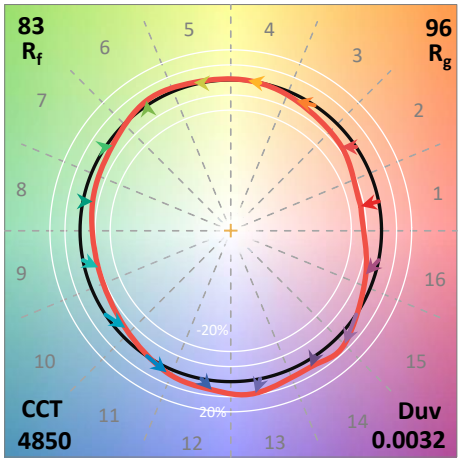
Spectral Power Distribution Comparison

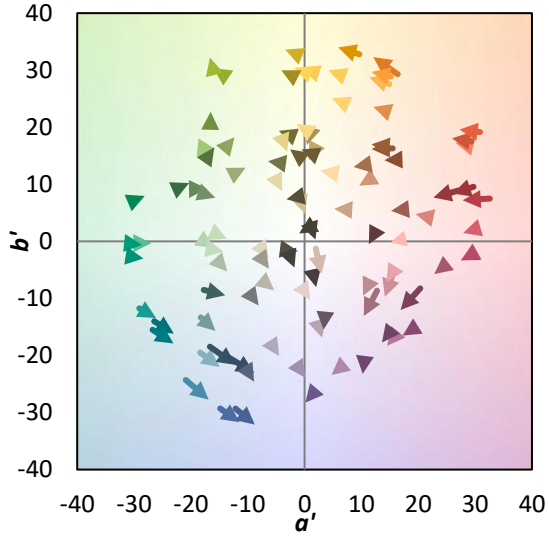


Color Vector Graphics









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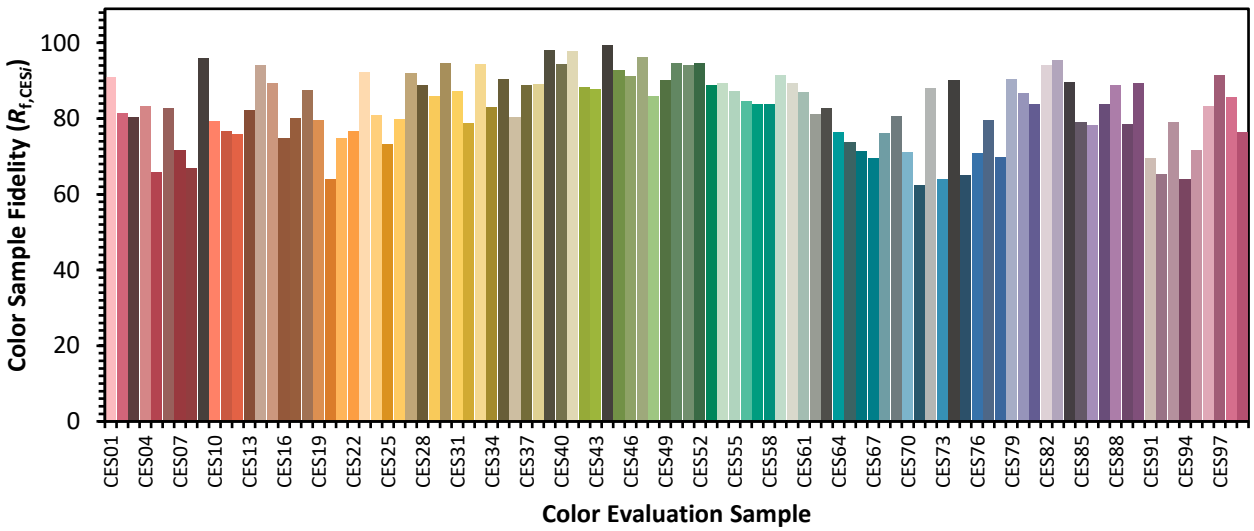
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82 = 94
CES08 = 39	CES33 = 94	CES58 = 84	CES83 = 95
CES09 = 29	CES34 = 83	CES59 = 91	CES84 = 90
CES10 = 73	CES35 = 90	CES60 = 89	CES85 = 79
CES11 = 56	CES36 = 80	CES61 = 87	CES86 = 78
CES12 = 62	CES37 = 89	CES62 = 81	CES87 = 84
CES13 = 42	CES38 = 89	CES63 = 83	CES88 = 89
CES14 = 74	CES39 = 98	CES64 = 77	CES89 = 79
CES15 = 71	CES40 = 94	CES65 = 74	CES90 = 89
CES16 = 46	CES41 = 98	CES66 = 71	CES91 = 70
CES17 = 49	CES42 = 88	CES67 = 70	CES92 = 65
CES18 = 56	CES43 = 88	CES68 = 76	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 81	CES94 = 64
CES20 = 64	CES45 = 93	CES70 = 71	CES95 = 72
CES21 = 85	CES46 = 91	CES71 = 62	CES96 = 83
CES22 = 77	CES47 = 96	CES72 = 88	CES97 = 91
CES23 = 91	CES48 = 86	CES73 = 64	CES98 = 86
CES24 = 90	CES49 = 90	CES74 = 90	CES99 = 76
CES25 = 71	CES50 = 95	CES75 = 65	



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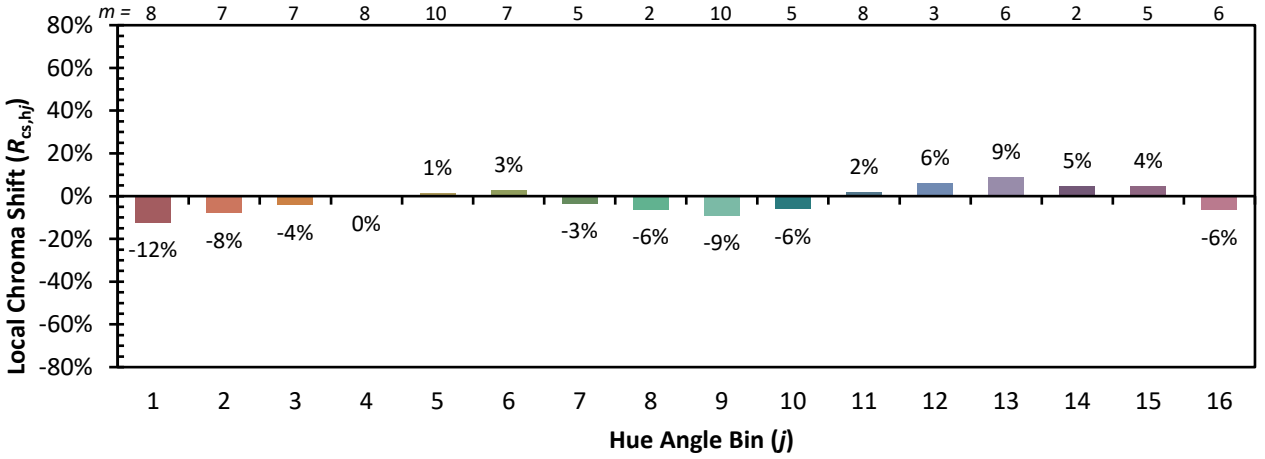
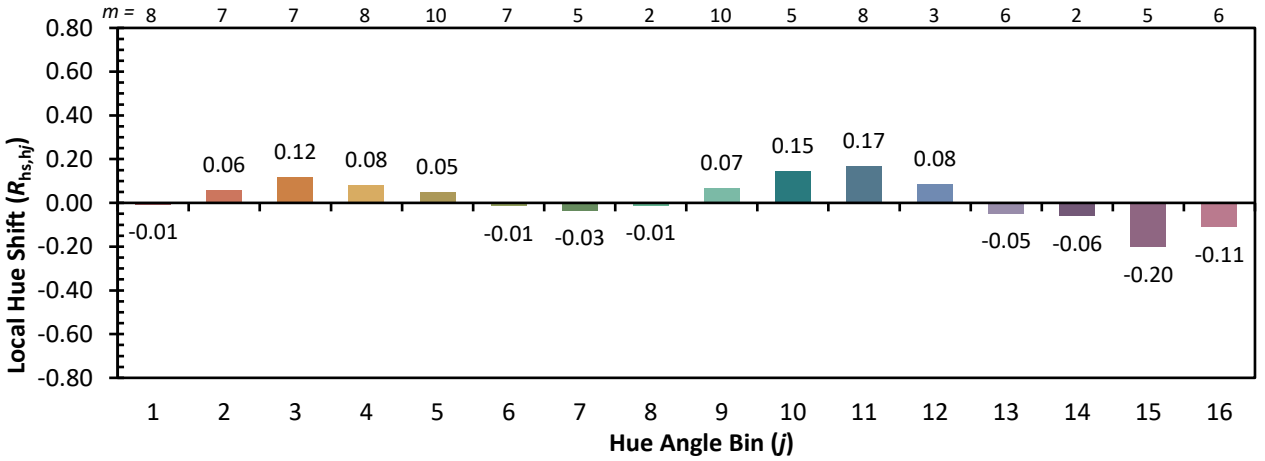
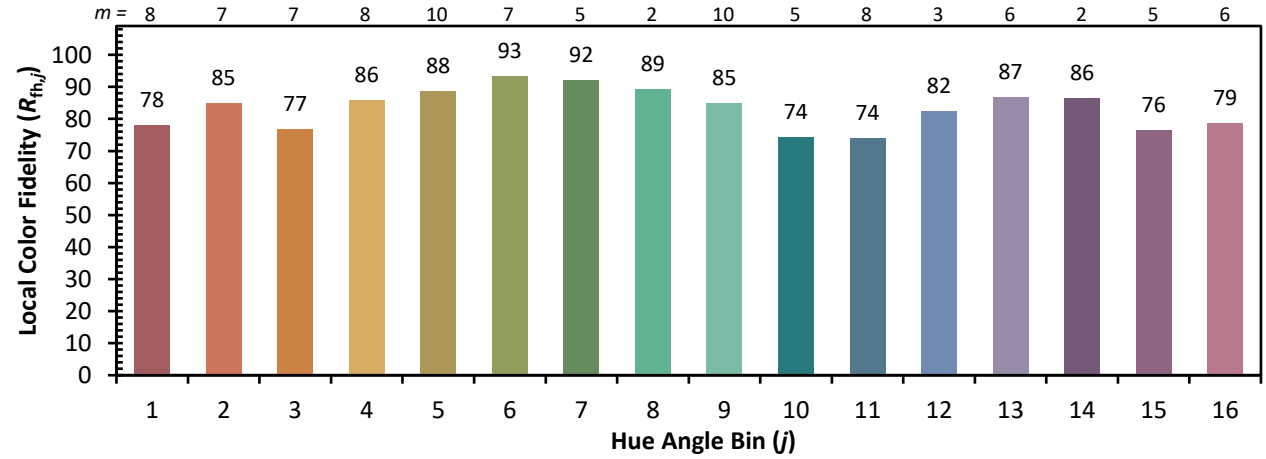
Color Rendition by Hue-Angle Bin







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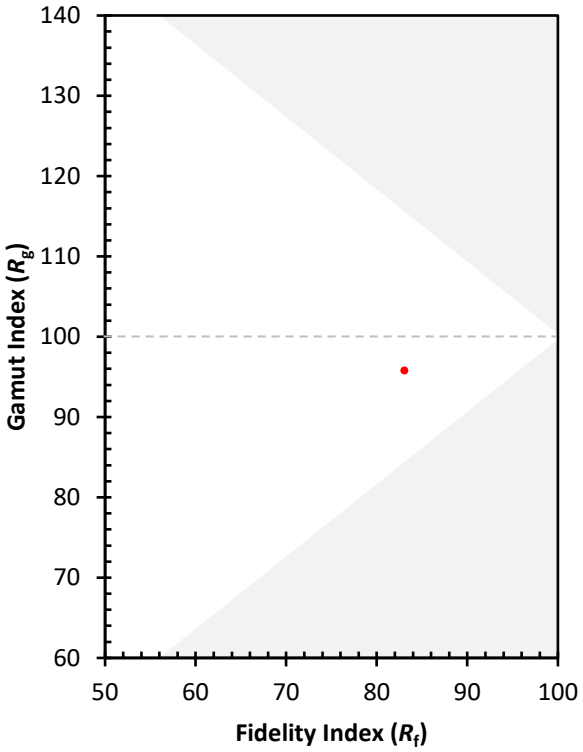
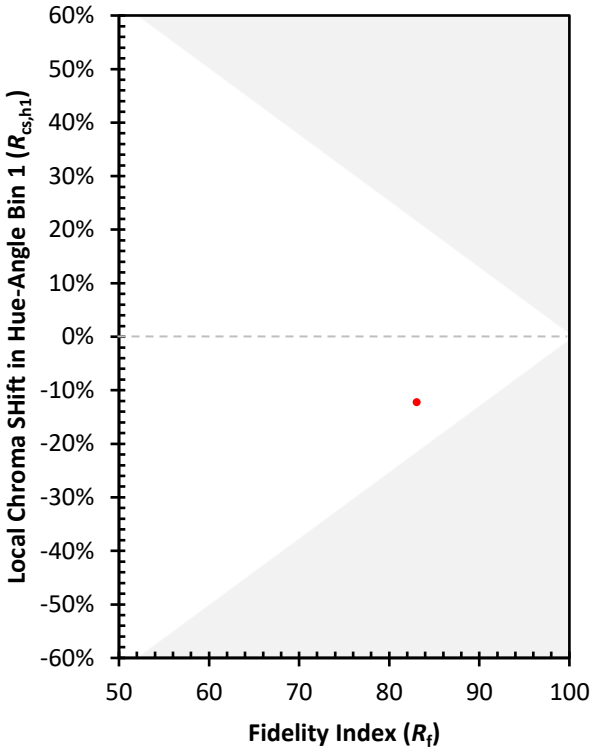
Measure Comparisons





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