

Signify Classified - Internal
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: P1449822

Luminaire Tested: **TWC100_T2_60W_4000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20260310022)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TWC100_T2_60W_4000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 60W
4000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10306 lumens
Efficiency: N/A
Efficacy: 179.5 lumens/watt
Luminous Opening: Rectangular (W 0.92' x L: 0.42' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U3 - G3

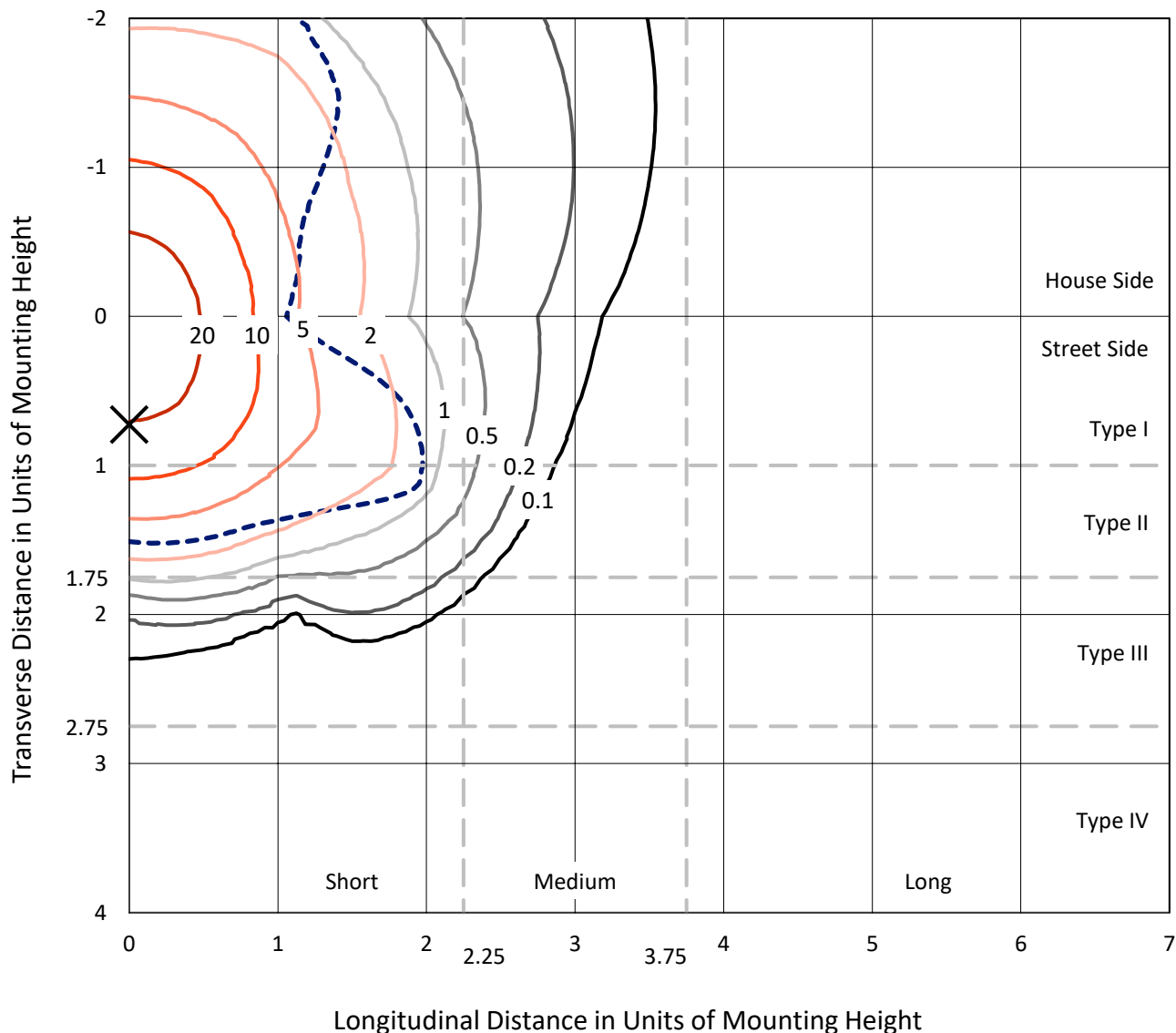
Input Watts (W): 57.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

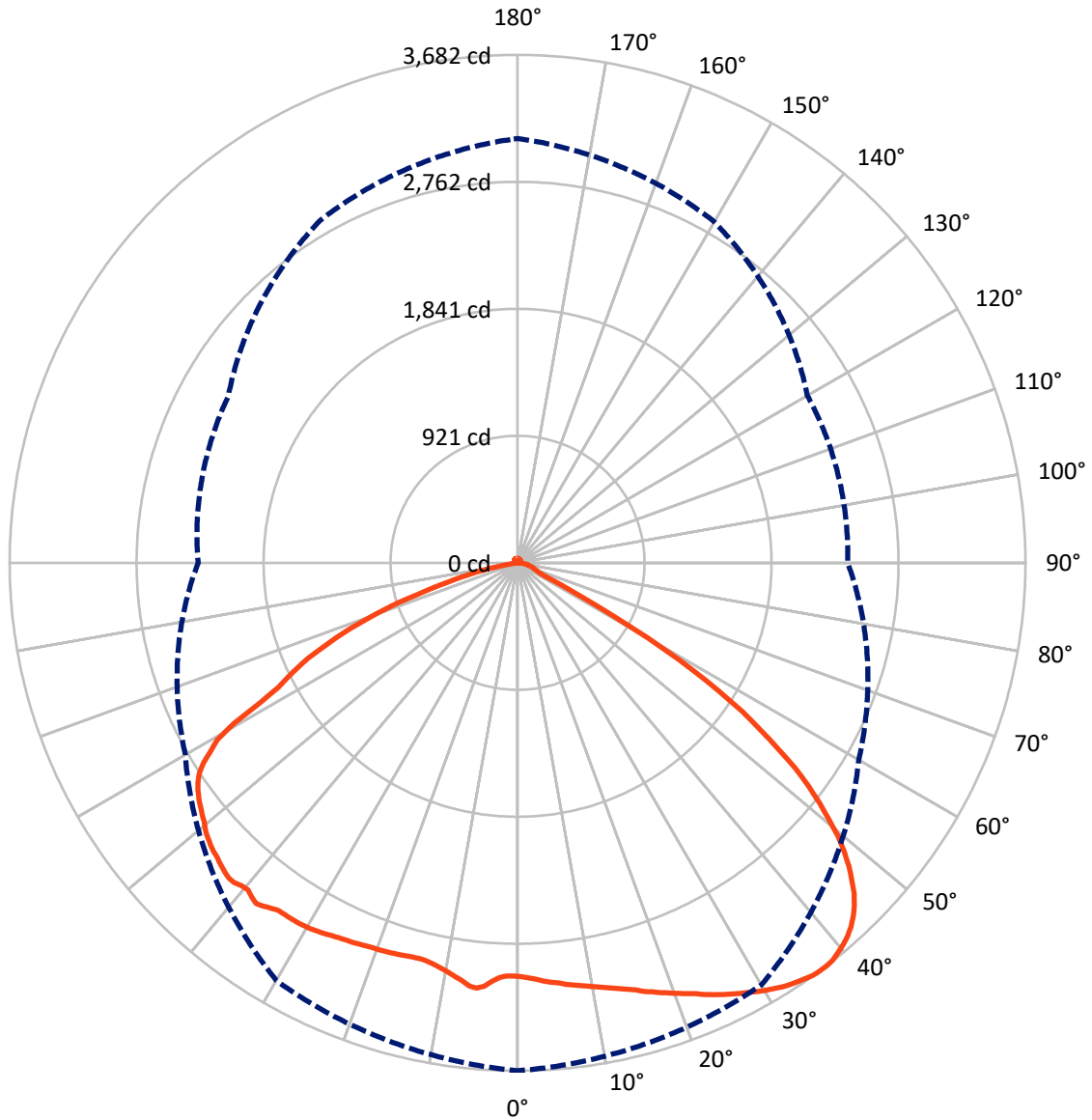
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 36-Deg Vertical

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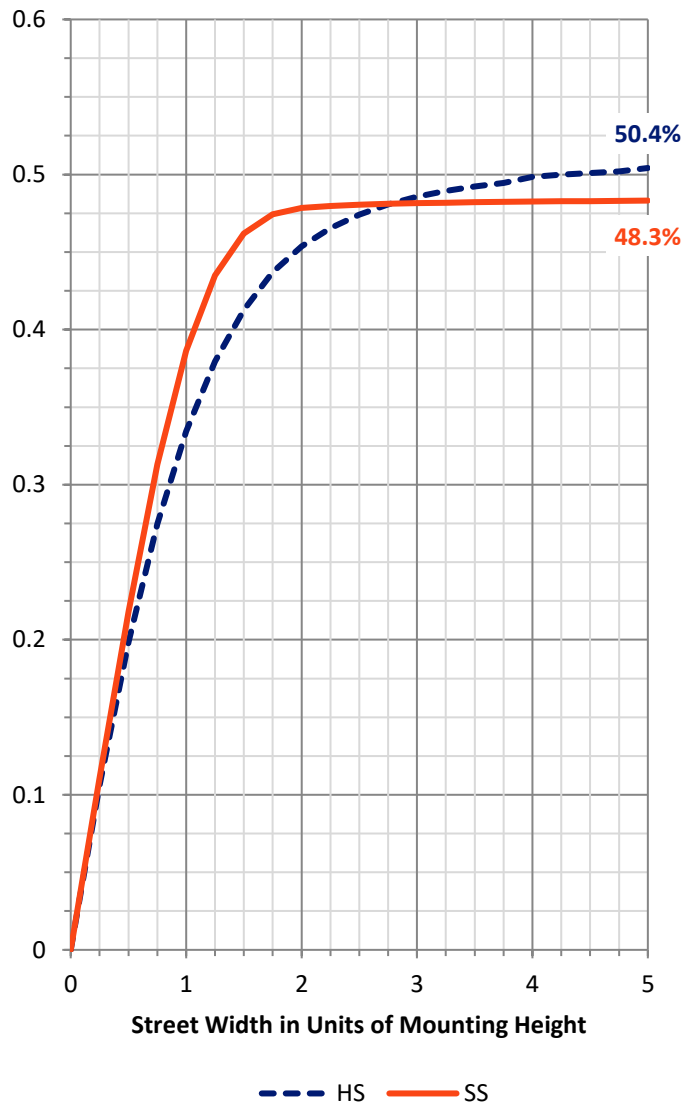
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5216.7	55.6	5272.3
	% Fixture	50.6	0.5	51.2
Street Side	Lumens	4978.1	55.6	5033.7
	% Fixture	48.3	0.5	48.8
Total	Lumens	10194.8	111.2	10306.0
	% Fixture	98.9	1.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.0	2.8
10°-20°	850.3	8.3
20°-30°	1372.9	13.3
30°-40°	1819.7	17.7
40°-50°	2083.6	20.2
50°-60°	1975.6	19.2
60°-70°	1236.7	12.0
70°-80°	471.1	4.6
80°-90°	95.9	0.9
90°-100°	4.9	0.0
100°-110°	9.7	0.1
110°-120°	15.1	0.1
120°-130°	18.6	0.2
130°-140°	19.4	0.2
140°-150°	17.7	0.2
150°-160°	13.9	0.1
160°-170°	8.8	0.1
170°-180°	3.0	0.0
0°-90°	10194.8	98.9
0°-180°	10306.0	100.0

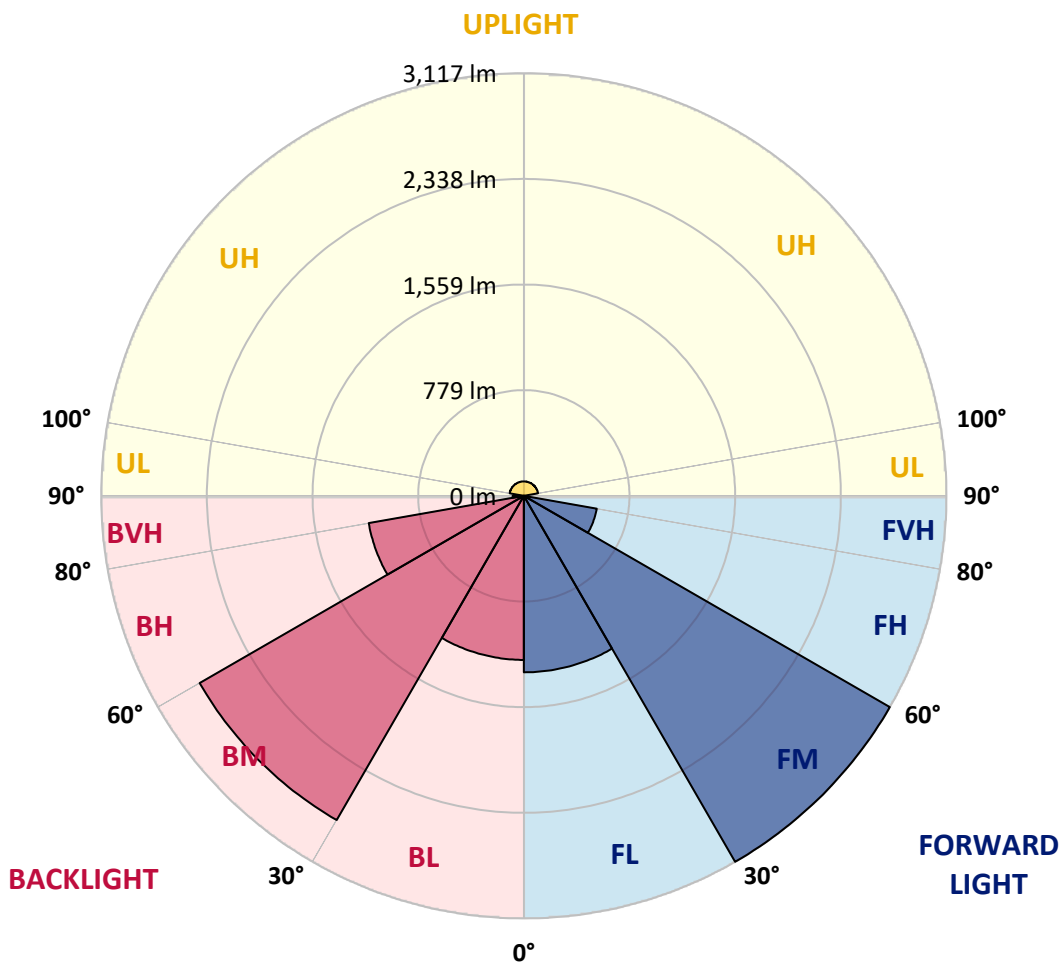


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1301.9	12.6			
FM (30°-60°)	3117.3	30.2			
FH (60°-80°)	546.1	5.3			G0/660
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	1210.4	11.7	B3/2500		
BM (30°-60°)	2761.6	26.8	B3/5000		
BH (60°-80°)	1161.7	11.3	B3/2500		G3/2500
BVH (80°-90°)	83.1	0.8			G1/100
UL (90°-100°)	4.9	0.0		U1/10	
UH (100°-180°)	106.3	1.0		U3/500	

BUG Rating: B3-U3-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7
1°	3010.5	3009.2	3006.9	2998.6	2995.9	2991.4	2995.4	2992.9	2990.9	2996.9	3003.1
2°	3021.8	3019.5	3011.2	3001.8	2991.9	2983.4	2996.3	2988.6	2986.1	2993.7	3008.2
3°	3037.0	3031.5	3017.7	3000.4	2985.7	2982.0	3008.7	2994.9	2981.7	2992.5	3012.9
4°	3049.2	3042.6	3023.2	2997.3	2981.3	2987.7	3038.6	3010.6	2981.5	2988.0	3015.3
5°	3059.3	3051.2	3025.0	2993.3	2979.2	3004.0	3078.5	3046.9	2981.7	2981.3	3020.9
6°	3075.0	3058.9	3026.4	2982.0	2977.9	3040.5	3097.4	3077.6	2985.1	2973.8	3021.6
7°	3086.7	3067.9	3027.5	2976.4	2980.8	3071.5	3086.9	3089.8	2992.4	2965.9	3020.6
8°	3099.2	3076.6	3027.8	2969.5	2987.8	3083.7	3057.4	3079.2	3008.2	2957.4	3019.3
9°	3111.7	3089.2	3026.7	2963.3	2999.3	3068.5	3035.3	3044.6	3025.8	2947.9	3012.5
10°	3125.6	3097.9	3024.7	2954.1	3021.1	3039.8	3012.8	3021.0	3036.9	2932.4	3010.0
11°	3140.6	3107.3	3023.4	2943.0	3032.2	3015.4	2994.3	2997.8	3035.8	2919.8	3006.0
12°	3158.8	3118.6	3020.9	2929.7	3034.3	2992.8	2976.6	2978.4	3026.0	2907.6	3002.3
13°	3175.4	3127.3	3017.6	2916.5	3025.3	2972.7	2964.7	2956.6	3001.7	2893.9	2995.7
14°	3194.1	3139.1	3014.4	2903.9	3004.3	2951.8	2956.0	2937.1	2972.5	2882.3	2991.1
15°	3213.6	3151.9	3007.2	2885.6	2972.8	2932.6	2957.2	2926.0	2944.7	2866.8	2985.7
16°	3240.3	3165.9	3002.8	2871.0	2945.0	2919.7	2959.1	2919.7	2916.6	2850.1	2984.4
17°	3261.2	3185.6	3000.1	2854.8	2917.0	2913.1	2965.7	2915.1	2889.0	2833.3	2980.0
18°	3285.6	3200.4	3000.7	2837.8	2888.7	2908.1	2970.2	2911.8	2857.1	2811.6	2975.1
19°	3308.1	3216.7	2996.5	2823.0	2862.0	2904.8	2974.4	2909.1	2829.2	2794.0	2969.7
20°	3332.4	3235.2	2993.4	2805.1	2832.9	2896.2	2978.8	2903.6	2800.9	2777.0	2958.6
21°	3357.0	3252.6	2984.9	2788.9	2800.7	2892.0	2981.0	2901.2	2774.3	2761.0	2951.6
22°	3381.3	3271.4	2980.4	2771.0	2772.4	2889.8	2986.3	2898.7	2750.5	2745.2	2944.7
23°	3413.6	3290.2	2975.9	2749.1	2749.5	2890.0	2992.1	2896.9	2730.2	2731.2	2941.5
24°	3440.7	3308.6	2970.0	2732.9	2726.1	2888.7	2999.6	2897.6	2709.7	2717.8	2934.5
25°	3466.9	3328.4	2967.5	2718.7	2705.7	2886.2	3004.6	2896.7	2689.6	2708.0	2925.4
26°	3492.9	3348.0	2959.6	2708.2	2683.9	2884.5	3010.7	2895.2	2667.6	2698.7	2915.2
27°	3518.6	3373.9	2952.4	2697.5	2661.8	2880.1	3020.5	2891.7	2644.1	2686.0	2901.9
28°	3542.4	3393.5	2943.0	2686.9	2634.9	2876.8	3031.2	2888.5	2619.8	2661.2	2889.8
29°	3567.9	3413.3	2932.9	2672.5	2611.1	2873.5	3038.7	2885.0	2595.9	2638.5	2878.2
30°	3591.9	3430.9	2923.1	2651.2	2586.0	2869.7	3047.9	2884.6	2566.1	2609.0	2865.8
31°	3614.0	3446.4	2914.4	2625.3	2560.5	2866.6	3053.4	2880.1	2541.4	2568.0	2849.9
32°	3633.3	3465.2	2902.7	2594.9	2530.3	2863.0	3057.2	2879.3	2516.9	2519.6	2836.9
33°	3650.0	3483.4	2892.8	2553.9	2503.7	2861.0	3058.7	2877.6	2494.4	2468.7	2823.5
34°	3663.3	3501.7	2881.1	2495.6	2477.7	2858.6	3058.0	2876.0	2470.3	2422.1	2812.6
35°	3677.0	3520.3	2867.6	2444.5	2451.7	2858.9	3058.8	2872.9	2445.9	2374.9	2797.8
36°	3682.2	3533.4	2855.7	2392.6	2426.1	2853.4	3075.9	2864.7	2420.5	2315.6	2781.4
37°	3681.7	3543.8	2843.3	2339.6	2400.7	2845.2	3096.1	2857.0	2390.0	2264.2	2765.6
38°	3675.3	3551.0	2829.8	2286.3	2374.1	2835.5	3113.2	2855.7	2363.6	2211.8	2743.2
39°	3656.8	3555.0	2817.0	2232.7	2347.1	2829.6	3096.0	2861.8	2334.4	2158.3	2730.1
40°	3637.3	3553.3	2807.1	2179.5	2312.6	2838.7	3072.0	2874.2	2302.8	2102.5	2716.9
41°	3611.3	3546.5	2796.6	2127.4	2283.6	2851.1	3079.3	2863.9	2270.8	2053.6	2705.9
42°	3578.4	3534.3	2789.9	2068.6	2252.3	2842.0	3097.2	2827.4	2240.7	2006.7	2699.1
43°	3534.8	3510.6	2784.7	2018.7	2220.2	2805.3	3099.5	2819.9	2207.3	1957.3	2690.5
44°	3483.1	3483.5	2780.8	1971.0	2183.8	2797.1	3087.4	2827.5	2170.7	1909.5	2683.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3421.2	3449.2	2780.2	1922.8	2147.7	2805.4	3069.2	2825.3	2132.9	1861.0	2679.4
46°	3340.4	3405.5	2780.7	1871.5	2106.0	2803.8	3051.4	2809.1	2102.6	1809.4	2677.6
47°	3257.0	3353.3	2781.2	1819.7	2071.5	2789.1	3038.2	2792.5	2085.1	1750.2	2675.5
48°	3161.7	3288.8	2783.9	1766.6	2053.0	2772.2	3020.2	2775.9	2064.1	1698.0	2673.6
49°	3055.2	3213.6	2786.3	1712.8	2033.8	2755.2	3000.4	2759.2	1999.4	1645.4	2675.1
50°	2924.6	3128.0	2789.1	1654.2	1980.1	2738.6	2977.0	2735.8	1953.4	1592.1	2672.1
51°	2798.1	3014.7	2793.1	1601.3	1922.3	2715.8	2945.5	2710.2	1927.5	1538.3	2673.1
52°	2659.4	2902.5	2794.8	1546.4	1896.7	2692.1	2922.3	2684.7	1892.9	1482.0	2675.0
53°	2503.2	2777.8	2796.7	1485.6	1864.6	2665.9	2898.4	2657.5	1856.7	1427.9	2676.6
54°	2316.5	2630.3	2796.0	1430.8	1827.0	2638.2	2873.2	2630.6	1817.5	1372.8	2679.9
55°	2136.0	2481.8	2794.7	1375.3	1785.6	2612.0	2846.1	2606.4	1777.3	1316.2	2678.9
56°	1950.3	2313.2	2790.8	1319.9	1744.2	2588.3	2811.4	2582.9	1736.7	1250.9	2675.2
57°	1726.5	2108.9	2780.0	1259.2	1699.5	2561.7	2767.3	2559.6	1686.1	1192.7	2667.8
58°	1497.4	1909.5	2764.4	1200.9	1646.7	2538.3	2700.3	2526.7	1638.0	1135.1	2651.5
59°	1240.0	1705.9	2734.8	1142.7	1596.3	2511.9	2607.6	2494.4	1590.7	1071.2	2630.5
60°	933.8	1492.4	2697.2	1077.2	1547.9	2480.2	2525.3	2456.2	1545.9	1013.1	2598.8
61°	659.3	1233.4	2643.1	1020.9	1495.5	2440.0	2361.2	2398.2	1500.4	954.9	2554.7
62°	439.5	973.8	2569.9	964.3	1451.4	2386.2	2119.5	2313.7	1460.6	896.2	2484.3
63°	289.6	696.2	2453.6	906.0	1406.5	2315.2	1956.3	2237.8	1420.1	838.7	2391.1
64°	200.2	445.7	2310.9	842.8	1362.7	2234.9	1862.6	2074.1	1380.7	792.5	2261.5
65°	173.0	255.0	2128.2	793.0	1318.4	2049.3	1769.0	1895.5	1339.9	733.7	2085.4
66°	161.2	160.8	1901.9	740.3	1277.1	1880.6	1667.9	1797.8	1300.7	677.8	1836.3
67°	152.0	126.5	1608.2	670.2	1235.2	1797.2	1542.7	1731.5	1258.2	624.5	1562.2
68°	142.6	113.7	1301.4	609.7	1191.1	1726.2	1426.4	1666.3	1207.9	565.7	1261.6
69°	133.7	104.4	973.3	553.0	1139.9	1662.1	1306.7	1580.7	1157.6	510.4	899.7
70°	126.5	95.1	654.5	500.8	1091.0	1586.3	1169.1	1499.4	1104.9	457.3	596.4
71°	121.5	87.6	411.5	444.7	1037.9	1507.8	1041.3	1419.8	1046.2	402.4	365.2
72°	114.8	82.4	230.8	395.7	974.8	1424.8	907.8	1337.5	958.2	354.6	211.1
73°	108.1	77.5	133.5	349.7	890.0	1343.7	759.4	1243.1	878.1	310.1	124.8
74°	99.1	71.2	102.4	307.8	809.2	1258.7	636.5	1150.5	829.7	266.1	102.0
75°	92.3	63.8	87.8	265.0	761.6	1170.7	527.9	1041.9	779.1	230.7	88.2
76°	85.0	56.2	78.4	229.8	713.5	1057.3	434.8	916.8	728.6	198.4	79.7
77°	79.8	50.9	72.9	200.0	664.0	937.2	350.2	786.1	682.2	169.7	74.2
78°	74.6	46.0	69.4	173.2	620.1	815.3	282.8	677.0	638.9	141.6	72.1
79°	70.1	42.3	64.3	147.6	578.9	701.9	212.0	581.7	593.1	118.5	67.5
80°	65.4	38.7	54.4	125.8	532.6	594.7	117.8	494.1	550.0	96.8	56.0
81°	59.6	35.6	43.1	101.6	489.3	505.7	47.4	402.5	507.1	76.2	44.4
82°	53.4	32.2	34.0	75.3	446.4	419.0	33.9	308.4	465.2	56.5	34.0
83°	37.9	26.6	26.5	56.5	401.4	298.3	27.4	176.3	411.8	42.1	26.0
84°	27.0	21.9	21.9	41.2	348.2	152.4	20.1	63.7	356.9	30.5	21.4
85°	21.2	17.2	18.2	29.4	297.5	45.8	14.6	20.8	297.7	21.6	17.5
86°	15.8	13.1	14.9	19.2	241.0	16.8	8.7	12.9	244.2	14.4	14.4
87°	9.4	9.3	11.3	12.1	184.8	9.3	5.0	7.4	171.2	9.6	10.9
88°	4.6	5.2	6.7	6.2	97.5	4.4	2.7	3.5	71.8	6.0	6.9
89°	2.2	3.1	3.1	2.4	14.7	1.5	1.4	1.6	4.6	4.0	5.1



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1.9	2.8	2.5	1.7	1.4	0.0	1.3	1.6	4.1	3.8	5.5
91°	2.2	3.2	2.8	1.6	1.5	0.0	1.5	1.7	4.6	4.1	5.8
92°	2.4	3.5	2.9	1.9	1.7	0.0	1.6	2.0	5.0	4.4	6.1
93°	2.9	4.0	3.4	2.0	2.0	0.0	1.9	2.2	5.5	4.8	6.7
94°	3.2	4.3	3.5	2.2	2.3	0.0	2.2	2.6	5.8	5.3	7.0
95°	3.6	4.7	3.9	2.3	2.7	0.9	2.5	3.1	6.3	5.6	7.5
96°	4.0	5.1	4.2	2.6	2.9	0.9	2.7	3.4	6.9	5.9	7.9
97°	4.4	5.5	4.5	2.8	3.1	1.0	3.0	3.9	7.5	6.4	8.4
98°	5.0	6.1	4.8	3.2	3.6	1.3	3.6	4.5	7.9	6.8	9.0
99°	5.5	6.6	5.1	3.6	3.9	1.3	4.1	5.0	8.5	7.3	9.3
100°	6.0	7.3	5.3	3.8	4.4	1.7	4.4	5.7	9.1	7.9	9.8
101°	6.5	7.8	5.8	4.2	4.5	2.1	5.1	6.2	9.7	8.3	10.2
102°	7.2	8.3	6.2	4.5	5.0	2.2	5.6	6.8	10.3	9.0	10.7
103°	7.9	8.8	6.5	4.9	5.5	2.6	6.2	7.8	11.1	9.3	11.3
104°	8.5	9.3	6.8	5.3	6.1	3.0	7.0	8.5	11.7	9.9	11.7
105°	9.3	9.7	7.3	5.6	6.5	3.4	7.7	9.1	12.3	10.3	12.1
106°	9.9	10.3	7.7	6.1	7.0	4.0	8.4	10.0	13.1	11.0	12.5
107°	10.4	10.9	8.1	6.4	7.5	4.4	9.3	10.8	13.7	11.5	13.1
108°	11.1	11.4	8.5	6.9	8.0	5.0	10.2	11.8	14.4	12.0	13.7
109°	11.9	11.9	9.0	7.4	8.7	5.5	10.8	12.5	15.1	12.6	14.1
110°	12.3	12.5	9.3	7.9	9.1	6.2	11.9	13.4	16.0	13.2	14.5
111°	13.1	13.1	9.8	8.4	9.8	6.8	12.7	14.3	16.4	13.7	14.9
112°	13.7	13.7	10.2	8.8	10.2	7.6	13.7	15.3	17.1	14.3	15.4
113°	14.5	14.3	10.7	9.3	10.8	8.2	14.6	16.0	17.7	14.8	16.0
114°	15.2	14.9	11.2	9.9	11.2	9.0	15.5	17.2	18.2	15.4	16.2
115°	15.8	15.4	11.4	10.3	11.6	9.8	16.5	18.1	18.7	16.0	16.7
116°	16.4	15.9	11.9	10.8	11.9	10.6	17.5	19.0	19.3	16.6	17.2
117°	17.1	16.5	12.4	11.3	12.7	11.4	18.3	19.8	19.8	17.2	17.8
118°	17.8	17.1	12.8	11.9	13.0	12.1	19.5	20.8	20.5	17.8	18.2
119°	18.2	17.6	13.2	12.3	13.6	12.9	20.5	21.5	20.9	18.4	18.7
120°	18.9	18.0	13.8	12.7	14.2	13.7	21.4	22.3	21.3	18.9	18.9
121°	19.5	18.4	14.3	13.4	14.5	14.5	22.4	23.0	21.8	19.4	19.4
122°	20.1	18.9	14.8	13.7	15.1	15.1	23.3	23.9	22.1	20.0	19.7
123°	20.5	19.5	15.1	14.4	15.6	16.0	24.2	24.7	22.7	20.5	20.1
124°	21.0	19.8	15.5	14.8	16.1	16.6	24.9	25.2	23.2	21.0	20.3
125°	21.5	20.3	16.0	15.3	16.6	17.2	25.8	25.9	23.7	21.4	21.0
126°	22.0	20.8	16.2	16.0	17.2	17.9	26.4	26.5	24.3	21.8	21.2
127°	22.5	21.2	16.7	16.4	17.8	18.5	27.0	27.0	24.6	22.3	21.7
128°	22.8	21.7	17.2	16.9	18.3	19.1	27.7	27.6	25.2	22.5	22.1
129°	23.4	22.0	17.3	17.3	18.9	19.5	28.2	28.2	25.8	22.9	22.4
130°	24.1	22.5	18.0	17.8	19.5	20.2	28.9	28.5	26.1	23.4	22.7
131°	24.7	22.8	18.2	18.2	20.3	20.7	29.4	28.9	26.5	23.9	23.0
132°	24.7	23.2	18.6	18.6	20.9	21.4	30.0	29.4	27.1	24.1	23.5
133°	25.1	23.6	19.2	18.9	21.4	21.9	30.5	29.9	27.5	24.4	23.6
134°	25.3	23.8	19.5	19.5	22.2	22.4	30.9	30.2	28.1	24.7	24.1



REPORT NUMBER: P1449822
 CATALOG NUMBER: TWC100_T2_60W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	25.7	24.3	19.9	19.7	22.8	23.0	31.4	30.4	28.3	25.0	24.4
136°	26.3	24.7	20.3	20.2	23.4	23.6	31.7	30.6	28.8	25.3	24.7
137°	26.5	24.6	20.7	20.6	24.2	24.2	31.9	31.1	29.0	25.7	24.7
138°	27.0	24.9	21.1	21.1	24.6	24.7	32.3	31.4	29.3	26.0	25.2
139°	27.1	25.3	21.3	21.4	25.1	25.2	32.3	31.6	29.5	26.3	25.4
140°	27.5	25.5	21.7	21.8	25.6	25.9	32.8	31.9	29.9	26.5	25.8
141°	27.6	25.9	22.0	22.1	26.0	26.5	32.9	32.1	30.0	26.7	26.0
142°	28.2	26.0	22.3	22.5	26.5	27.2	33.3	32.2	30.4	27.2	26.5
143°	28.2	26.2	23.0	23.0	27.0	27.6	33.3	32.5	30.6	27.6	26.5
144°	28.3	26.5	23.0	23.3	27.4	28.4	33.6	32.7	30.8	27.9	27.0
145°	28.4	26.8	23.4	23.4	27.8	28.8	33.5	32.8	30.9	28.1	27.1
146°	28.7	26.7	23.7	23.8	28.0	29.4	33.7	32.9	31.1	28.4	27.4
147°	28.8	27.1	24.1	24.2	28.3	29.9	33.8	32.9	31.2	28.7	27.6
148°	28.8	27.2	24.4	24.5	28.6	30.3	33.8	33.2	31.5	28.7	28.0
149°	29.1	27.4	24.7	24.7	28.8	30.6	33.9	33.3	31.5	29.2	28.3
150°	29.0	27.5	25.0	25.3	29.0	31.0	33.7	33.3	31.7	29.4	28.3
151°	29.4	27.8	25.3	25.3	29.3	31.5	33.8	33.2	31.7	29.6	28.7
152°	29.4	27.7	25.5	25.9	29.4	31.7	33.8	33.3	31.8	29.9	28.8
153°	29.5	28.0	25.9	25.9	29.6	32.0	33.7	33.3	32.0	30.2	29.1
154°	29.5	28.0	26.1	26.5	29.8	32.0	33.5	33.3	32.0	30.1	29.3
155°	29.6	28.3	26.5	26.5	30.0	32.3	33.5	33.3	32.0	30.2	29.5
156°	29.7	28.3	26.7	27.1	30.1	32.4	33.5	33.1	31.9	30.5	29.7
157°	29.7	28.5	27.0	27.3	30.3	32.3	33.2	33.3	32.0	30.6	29.8
158°	30.0	28.4	27.4	27.6	30.5	32.6	33.1	32.9	32.0	31.0	30.0
159°	29.9	28.8	27.6	27.9	30.5	32.6	32.9	33.0	32.2	31.1	30.2
160°	30.0	28.8	27.9	28.5	30.7	32.7	32.8	32.9	32.2	31.1	30.4
161°	30.0	29.1	28.1	28.4	30.8	32.7	32.8	32.9	32.1	31.3	30.5
162°	30.0	29.2	28.3	28.7	31.0	32.9	32.8	32.9	32.1	31.3	30.5
163°	30.1	29.3	28.6	29.0	31.2	32.9	32.7	32.7	32.1	31.6	30.7
164°	30.3	29.4	28.9	29.4	31.3	32.9	32.5	32.7	32.2	31.6	30.7
165°	30.4	29.6	28.9	29.5	31.4	32.9	32.3	32.6	32.2	31.7	30.9
166°	30.5	29.7	29.2	29.7	31.5	32.9	32.2	32.4	32.3	31.7	31.0
167°	30.5	29.9	29.4	30.0	31.7	32.9	32.4	32.6	32.3	32.0	31.2
168°	30.5	29.9	29.7	30.2	31.7	32.9	32.3	32.6	32.2	32.0	31.3
169°	30.6	30.2	29.9	30.4	31.8	32.9	32.1	32.4	32.3	32.2	31.4
170°	30.7	30.3	30.2	30.8	32.0	32.8	32.1	32.2	32.3	32.1	31.5
171°	30.9	30.4	30.2	31.0	32.2	32.9	32.3	32.4	32.0	32.3	31.6
172°	31.1	30.5	30.7	31.1	32.1	32.8	32.3	32.3	32.3	32.3	31.9
173°	31.2	30.6	30.6	31.4	32.1	32.8	32.3	32.1	32.3	32.5	31.8
174°	31.4	30.8	31.1	31.6	32.1	32.7	32.3	32.3	32.1	32.6	32.0
175°	31.6	31.1	31.2	31.8	32.2	32.7	32.3	32.2	32.3	32.5	32.1
176°	31.9	31.2	31.4	31.7	32.3	32.7	32.4	32.3	32.2	32.7	32.1
177°	32.0	31.4	31.4	32.2	32.2	32.8	32.4	31.9	31.9	32.6	32.3
178°	32.0	31.6	31.6	32.1	32.3	32.7	32.2	32.1	32.0	32.6	32.2
179°	32.1	31.7	32.0	32.3	32.3	32.6	32.3	32.0	32.1	32.4	32.4



REPORT NUMBER: P1449822
CATALOG NUMBER: TWC100_T2_60W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2



REPORT NUMBER: P1449822
CATALOG NUMBER: TWC100_T2_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	2999.7	2999.7
1°	3010.3	3010.5
2°	3024.9	3021.8
3°	3033.9	3037.0
4°	3042.7	3049.2
5°	3048.3	3059.3
6°	3056.1	3075.0
7°	3064.2	3086.7
8°	3071.8	3099.2
9°	3082.6	3111.7
10°	3091.6	3125.6
11°	3101.3	3140.6
12°	3112.5	3158.8
13°	3121.5	3175.4
14°	3133.5	3194.1
15°	3145.5	3213.6
16°	3162.4	3240.3
17°	3177.0	3261.2
18°	3192.2	3285.6
19°	3207.2	3308.1
20°	3224.9	3332.4
21°	3241.7	3357.0
22°	3259.3	3381.3
23°	3277.9	3413.6
24°	3294.9	3440.7
25°	3314.6	3466.9
26°	3332.6	3492.9
27°	3353.9	3518.6
28°	3372.5	3542.4
29°	3391.0	3567.9
30°	3407.2	3591.9
31°	3422.6	3614.0
32°	3439.9	3633.3
33°	3456.5	3650.0
34°	3470.8	3663.3
35°	3486.8	3677.0
36°	3497.0	3682.2
37°	3504.0	3681.7
38°	3508.4	3675.3
39°	3507.4	3656.8
40°	3501.7	3637.3
41°	3493.6	3611.3
42°	3477.8	3578.4
43°	3451.4	3534.8
44°	3422.2	3483.1



REPORT NUMBER: P1449822
CATALOG NUMBER: TWC100_T2_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3385.4	3421.2
46°	3338.8	3340.4
47°	3285.1	3257.0
48°	3219.0	3161.7
49°	3142.2	3055.2
50°	3040.8	2924.6
51°	2937.2	2798.1
52°	2820.9	2659.4
53°	2692.6	2503.2
54°	2540.1	2316.5
55°	2383.9	2136.0
56°	2207.0	1950.3
57°	2017.2	1726.5
58°	1797.6	1497.4
59°	1590.4	1240.0
60°	1365.9	933.8
61°	1120.7	659.3
62°	830.2	439.5
63°	563.4	289.6
64°	346.5	200.2
65°	206.7	173.0
66°	136.3	161.2
67°	117.5	152.0
68°	106.8	142.6
69°	96.3	133.7
70°	87.5	126.5
71°	81.7	121.5
72°	77.1	114.8
73°	71.1	108.1
74°	64.5	99.1
75°	57.5	92.3
76°	51.6	85.0
77°	46.6	79.8
78°	42.2	74.6
79°	39.4	70.1
80°	36.6	65.4
81°	33.7	59.6
82°	30.0	53.4
83°	25.0	37.9
84°	21.0	27.0
85°	16.0	21.2
86°	13.1	15.8
87°	10.1	9.4
88°	7.0	4.6
89°	6.5	2.2



REPORT NUMBER: P1449822
CATALOG NUMBER: TWC100_T2_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	7.0	1.9
91°	7.5	2.2
92°	8.2	2.4
93°	8.7	2.9
94°	9.4	3.2
95°	10.0	3.6
96°	10.6	4.0
97°	11.4	4.4
98°	11.9	5.0
99°	12.6	5.5
100°	13.4	6.0
101°	13.9	6.5
102°	14.5	7.2
103°	15.0	7.9
104°	15.9	8.5
105°	16.4	9.3
106°	17.0	9.9
107°	17.7	10.4
108°	18.3	11.1
109°	18.8	11.9
110°	19.3	12.3
111°	20.0	13.1
112°	20.5	13.7
113°	21.2	14.5
114°	21.6	15.2
115°	22.0	15.8
116°	22.5	16.4
117°	23.0	17.1
118°	23.4	17.8
119°	23.7	18.2
120°	24.2	18.9
121°	24.6	19.5
122°	24.6	20.1
123°	24.9	20.5
124°	25.3	21.0
125°	25.6	21.5
126°	25.8	22.0
127°	26.1	22.5
128°	26.4	22.8
129°	26.4	23.4
130°	26.8	24.1
131°	26.9	24.7
132°	27.0	24.7
133°	27.1	25.1
134°	27.5	25.3



REPORT NUMBER: P1449822
CATALOG NUMBER: TWC100_T2_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	27.6	25.7
136°	27.7	26.3
137°	27.9	26.5
138°	28.1	27.0
139°	28.3	27.1
140°	28.2	27.5
141°	28.2	27.6
142°	28.4	28.2
143°	28.7	28.2
144°	28.7	28.3
145°	28.8	28.4
146°	28.8	28.7
147°	29.2	28.8
148°	29.0	28.8
149°	29.1	29.1
150°	29.2	29.0
151°	29.4	29.4
152°	29.5	29.4
153°	29.7	29.5
154°	29.6	29.5
155°	29.6	29.6
156°	29.8	29.7
157°	30.0	29.7
158°	30.0	30.0
159°	30.0	29.9
160°	30.0	30.0
161°	30.1	30.0
162°	30.2	30.0
163°	30.2	30.1
164°	30.4	30.3
165°	30.5	30.4
166°	30.6	30.5
167°	30.8	30.5
168°	30.9	30.5
169°	31.0	30.6
170°	31.1	30.7
171°	31.3	30.9
172°	31.2	31.1
173°	31.6	31.2
174°	31.7	31.4
175°	31.8	31.6
176°	31.9	31.9
177°	31.9	32.0
178°	32.3	32.0
179°	32.3	32.1

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P1449822
CATALOG NUMBER: TWC100_T2_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	32.2	32.2

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-2

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-4000K

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

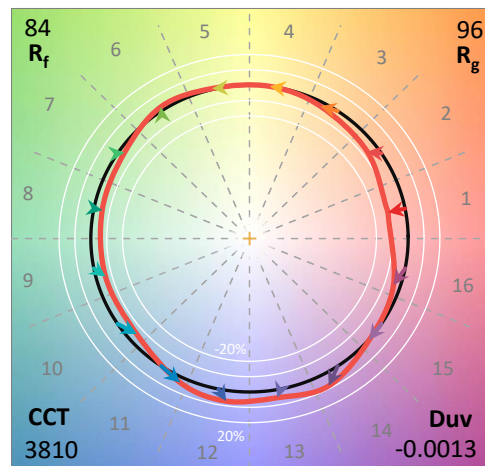
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2601-659-2
 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-4000K**
 Description: Mester Wedge, at T4 beam setting, 24W output, 4000K

Spectral Parameters

CCT (K): 3810
 CIE u': 0.2295
 CIE v': 0.5035
 Duv: -0.0013
 CIE x: 0.3881
 CIE y: 0.3785
 CIE z: 0.2334
 Peak Wavelength (nm): 453
 Dominant Wavelength (nm): 580
 Purity: 30.07368
 Rf: 84.4
 Rg: 96.5

CRI (Ra):	84.5		
R1:	83.7	R9:	15.9
R2:	90.7	R10:	77.2
R3:	95.1	R11:	83.0
R4:	83.6	R12:	62.4
R5:	83.4	R13:	85.6
R6:	86.7	R14:	97.4
R7:	86.3	R15:	77.9
R8:	66.5		



Test Conditions

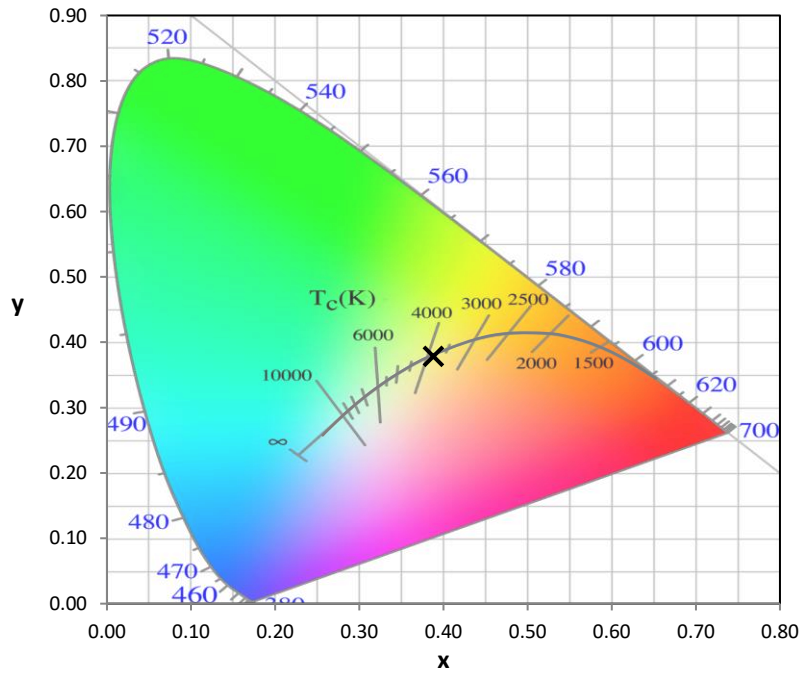
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-2

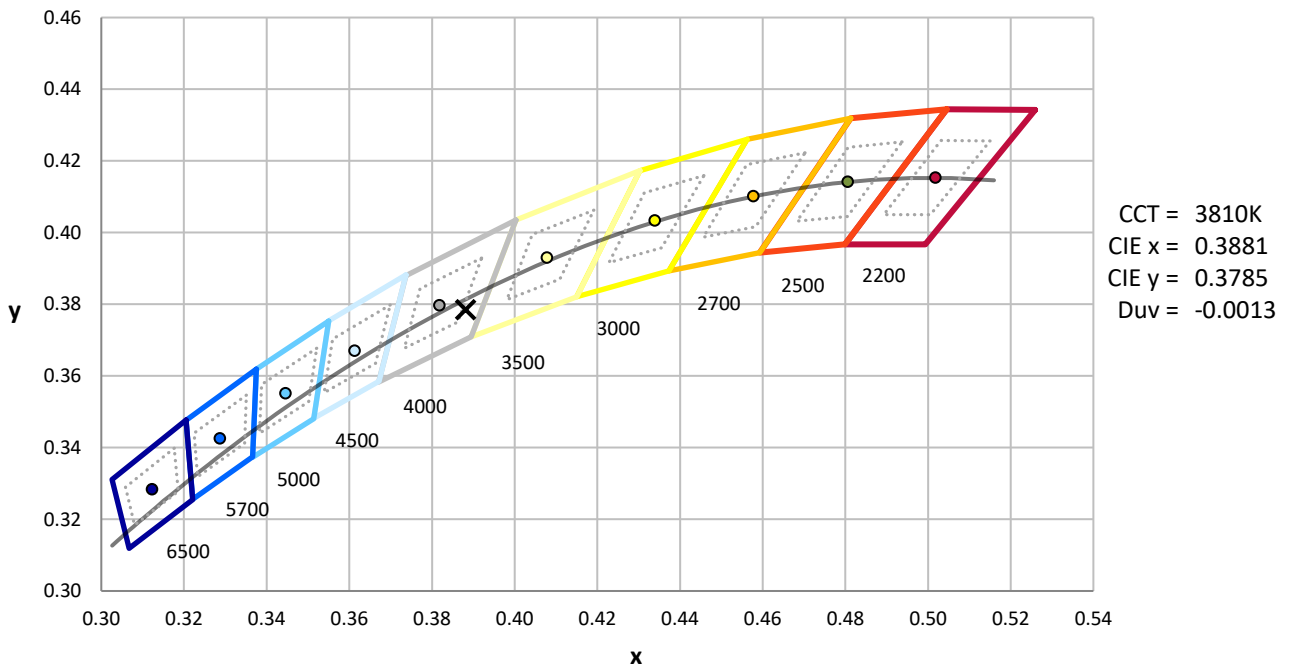
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2601-659-2

CIE 1931 Chromaticity Diagram



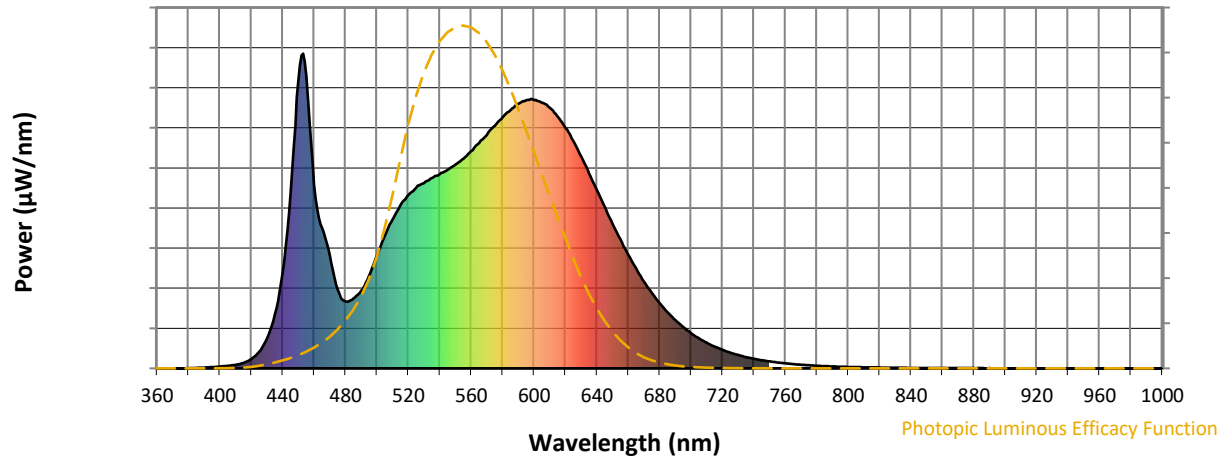
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

Photopic Flux vs. Wavelength

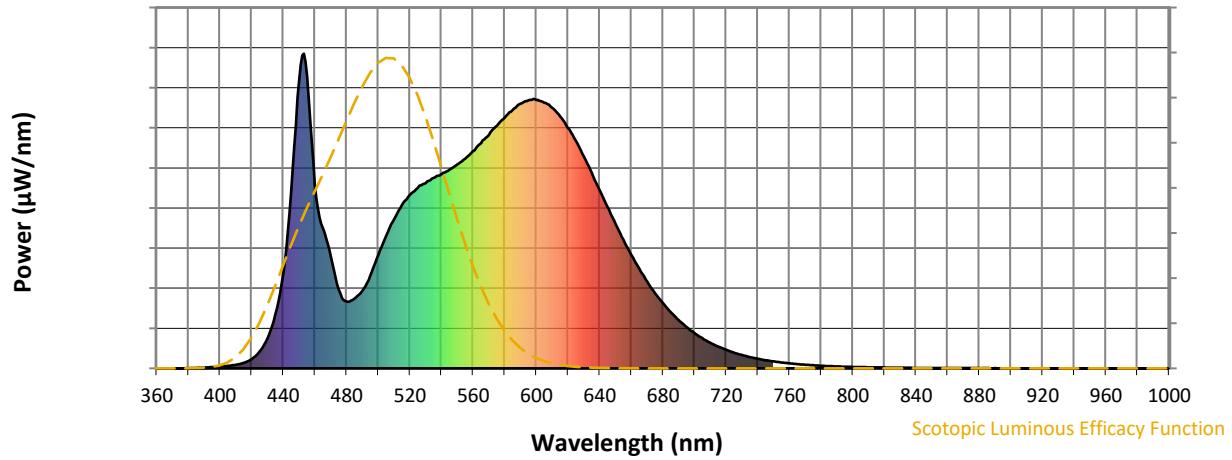


Photopic Lumens: NR

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	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



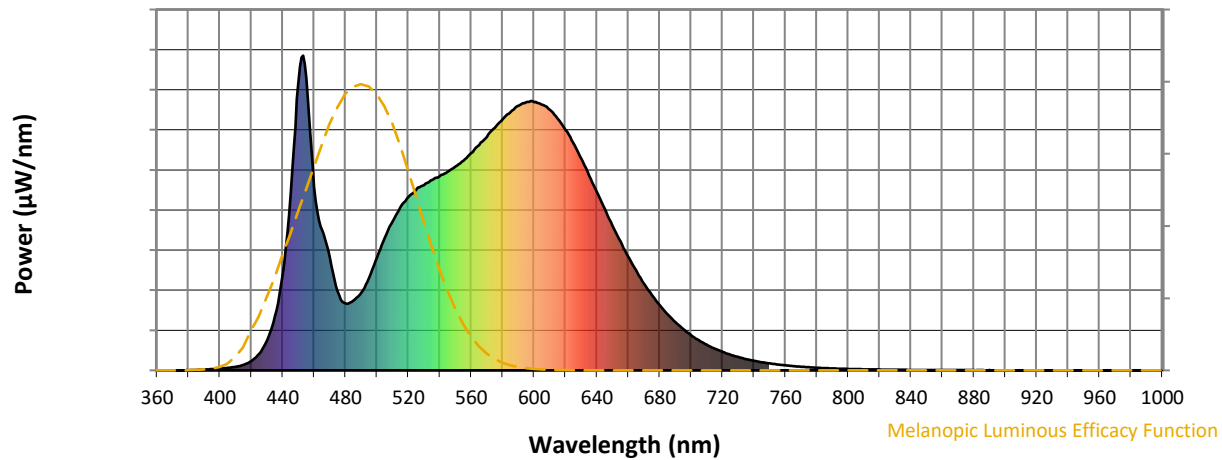
Scotopic Lumens: NR

S/P: 1.64

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	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-2

Melanopic Flux vs. Wavelength



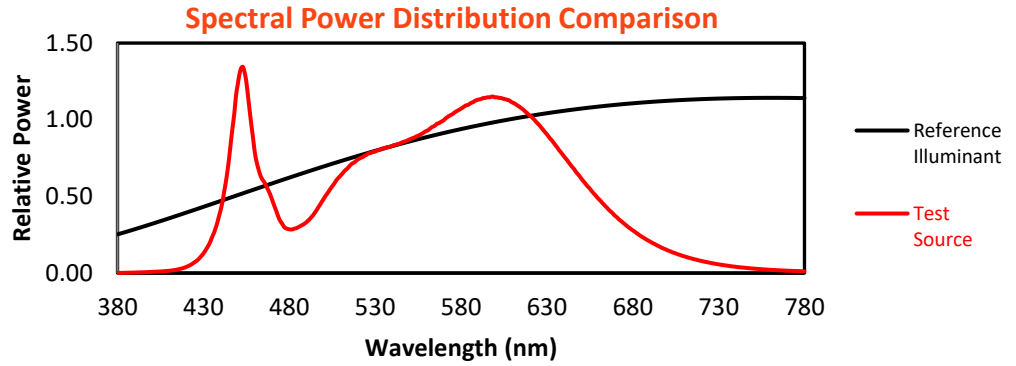
Melanopic Lumens: NR

M/P: 3.35

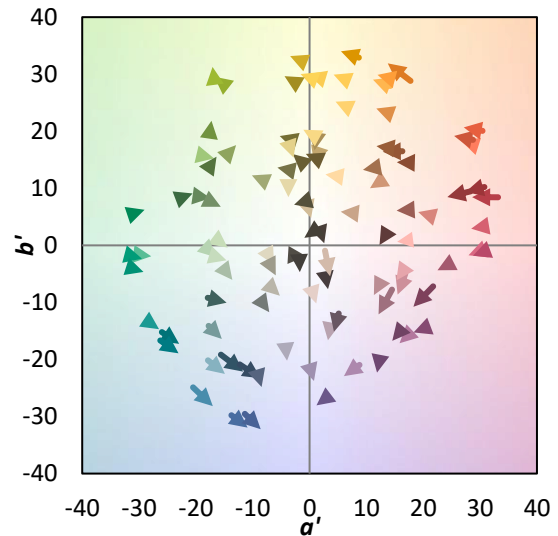
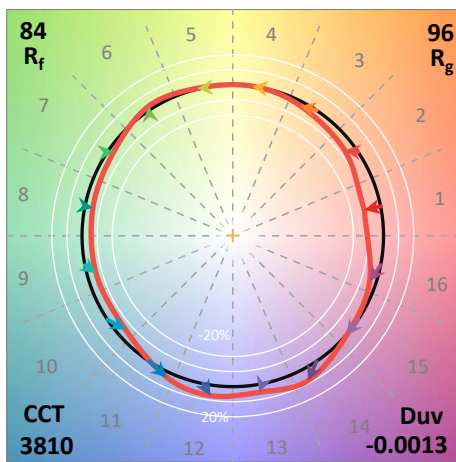
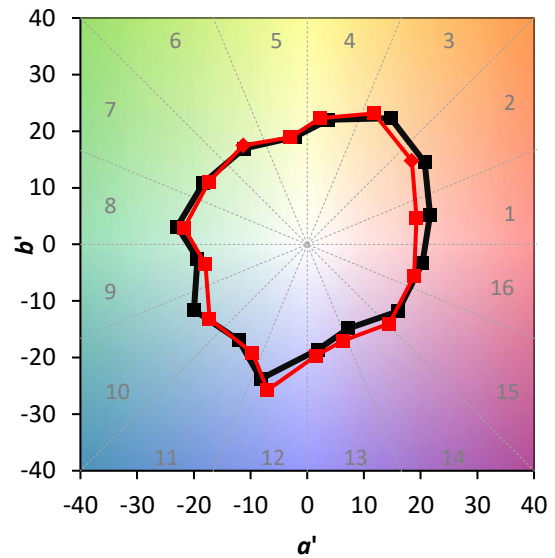
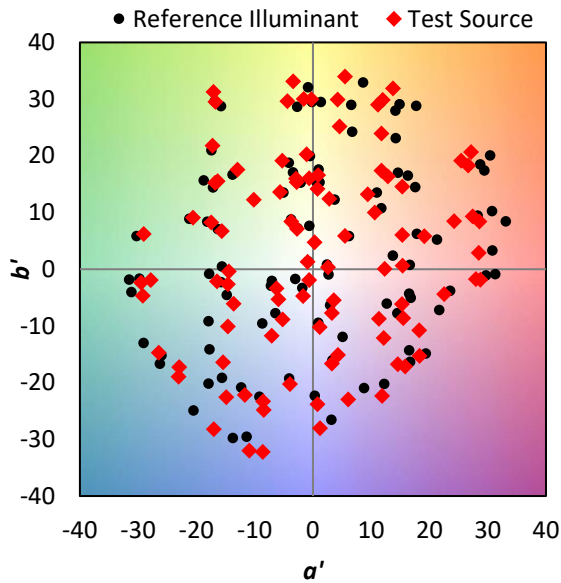
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

Summary

$R_f = 84.4$
 $R_g = 96.5$
 CIE $R_a = 84.5$
 $R_9 = 15.9$

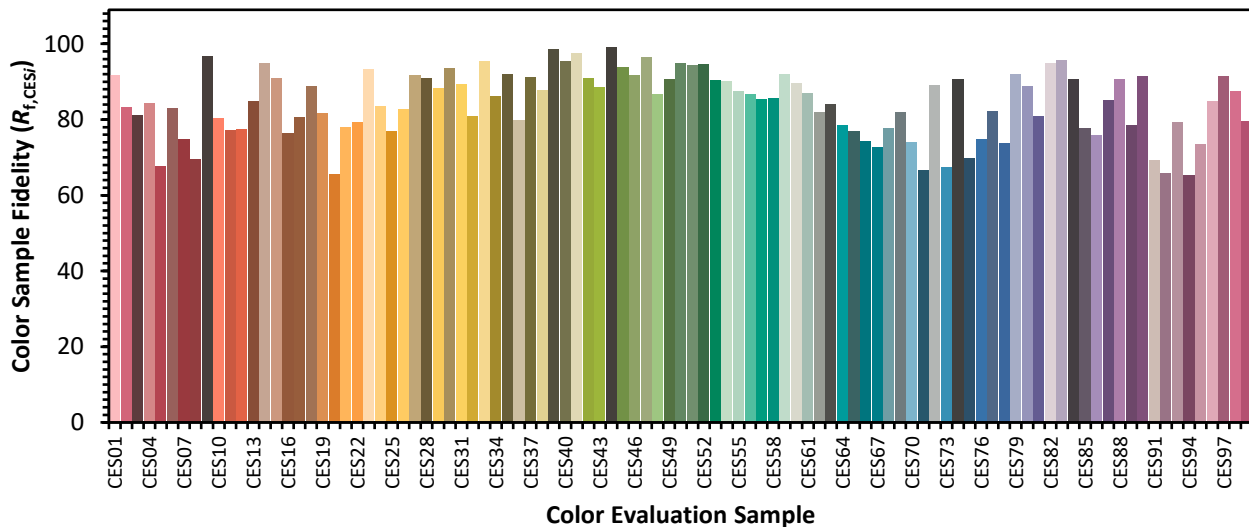


Color Vector Graphics

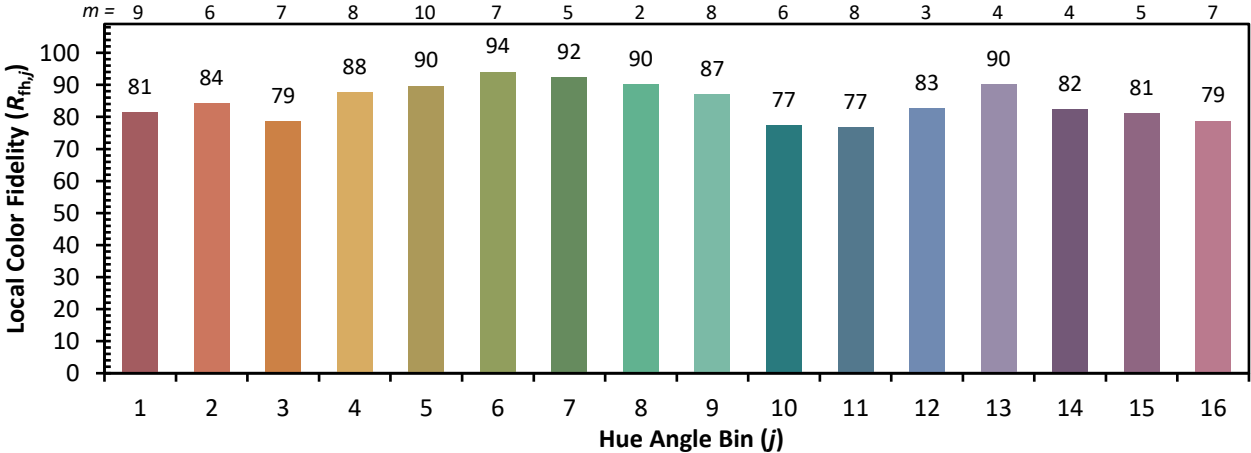
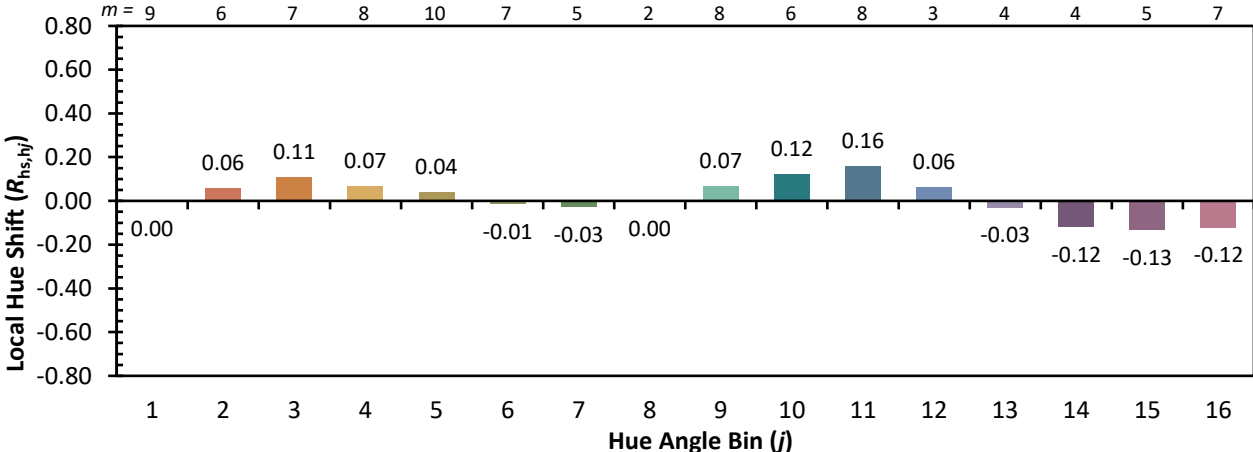
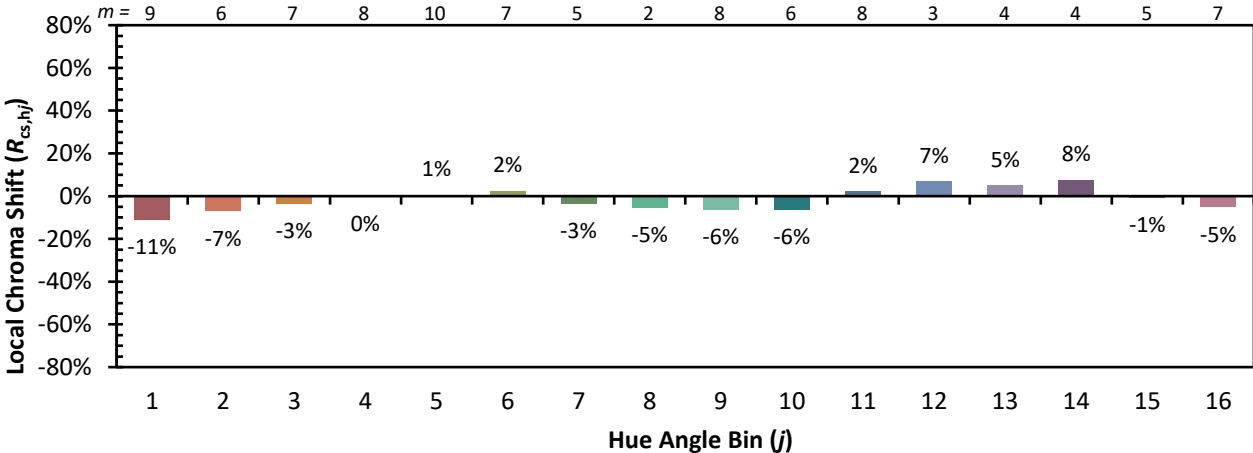


Individual Sample Fidelity Index ($R_{f,i}$)

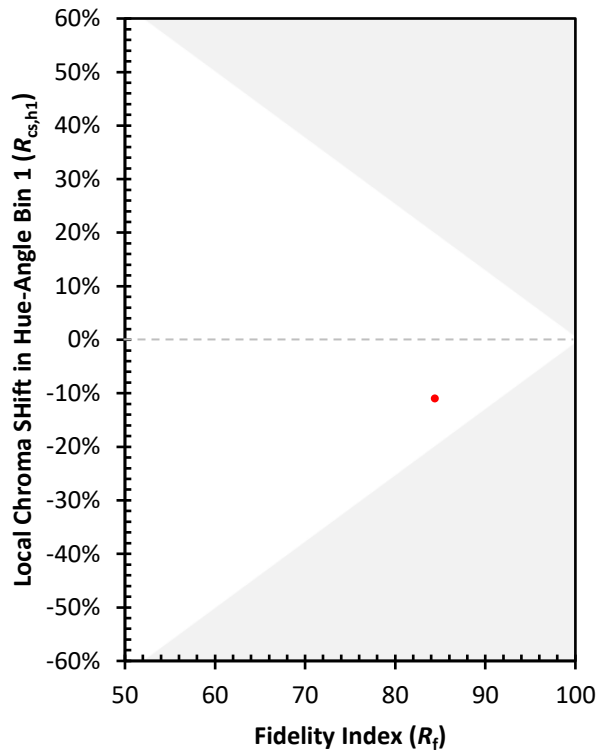
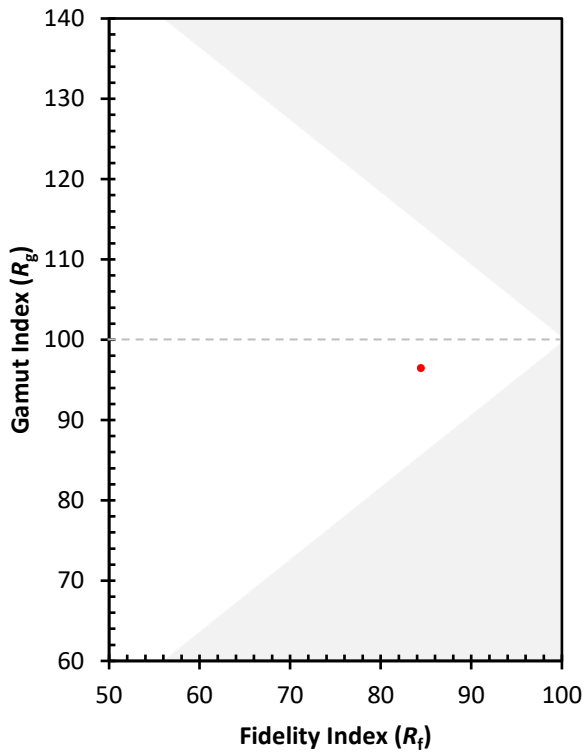
CES01 = 86	CES26 = 83	CES51 = 94	CES76 = 75
CES02 = 62	CES27 = 92	CES52 = 95	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 90	CES78 = 74
CES04 = 70	CES29 = 88	CES54 = 90	CES79 = 92
CES05 = 48	CES30 = 94	CES55 = 88	CES80 = 89
CES06 = 51	CES31 = 89	CES56 = 87	CES81 = 81
CES07 = 41	CES32 = 81	CES57 = 86	CES82 = 95
CES08 = 40	CES33 = 95	CES58 = 86	CES83 = 96
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 91
CES10 = 75	CES35 = 92	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 80	CES61 = 87	CES86 = 76
CES12 = 63	CES37 = 91	CES62 = 82	CES87 = 85
CES13 = 43	CES38 = 88	CES63 = 84	CES88 = 91
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 78
CES15 = 71	CES40 = 96	CES65 = 77	CES90 = 92
CES16 = 47	CES41 = 98	CES66 = 74	CES91 = 69
CES17 = 49	CES42 = 91	CES67 = 73	CES92 = 66
CES18 = 56	CES43 = 89	CES68 = 78	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 65
CES20 = 65	CES45 = 94	CES70 = 74	CES95 = 74
CES21 = 86	CES46 = 92	CES71 = 67	CES96 = 85
CES22 = 78	CES47 = 97	CES72 = 89	CES97 = 91
CES23 = 91	CES48 = 87	CES73 = 68	CES98 = 87
CES24 = 90	CES49 = 91	CES74 = 91	CES99 = 80
CES25 = 71	CES50 = 95	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)