

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: P1449869

Luminaire Tested: **TWC150\_T3\_60W\_3000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449869  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( )  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: TWC150\_T3\_60W\_3000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 60W  
3000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

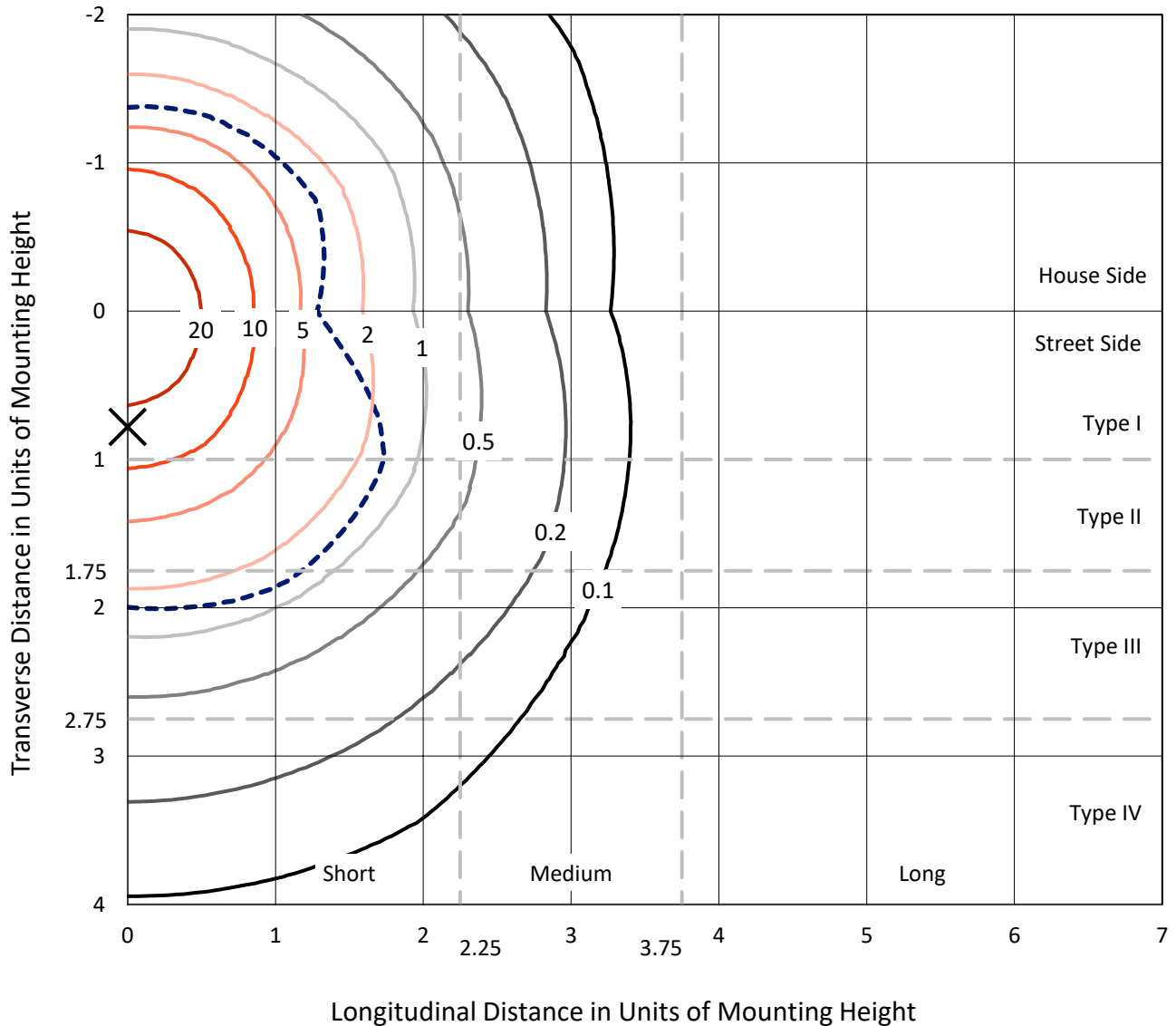
Lumens per Lamp: N/A  
Luminaire Lumens: 9810 lumens  
Efficiency: N/A  
Efficacy: 173.9 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 0.42' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 56.4  
Input Voltage (V): NR  
Input Current (Ain): 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

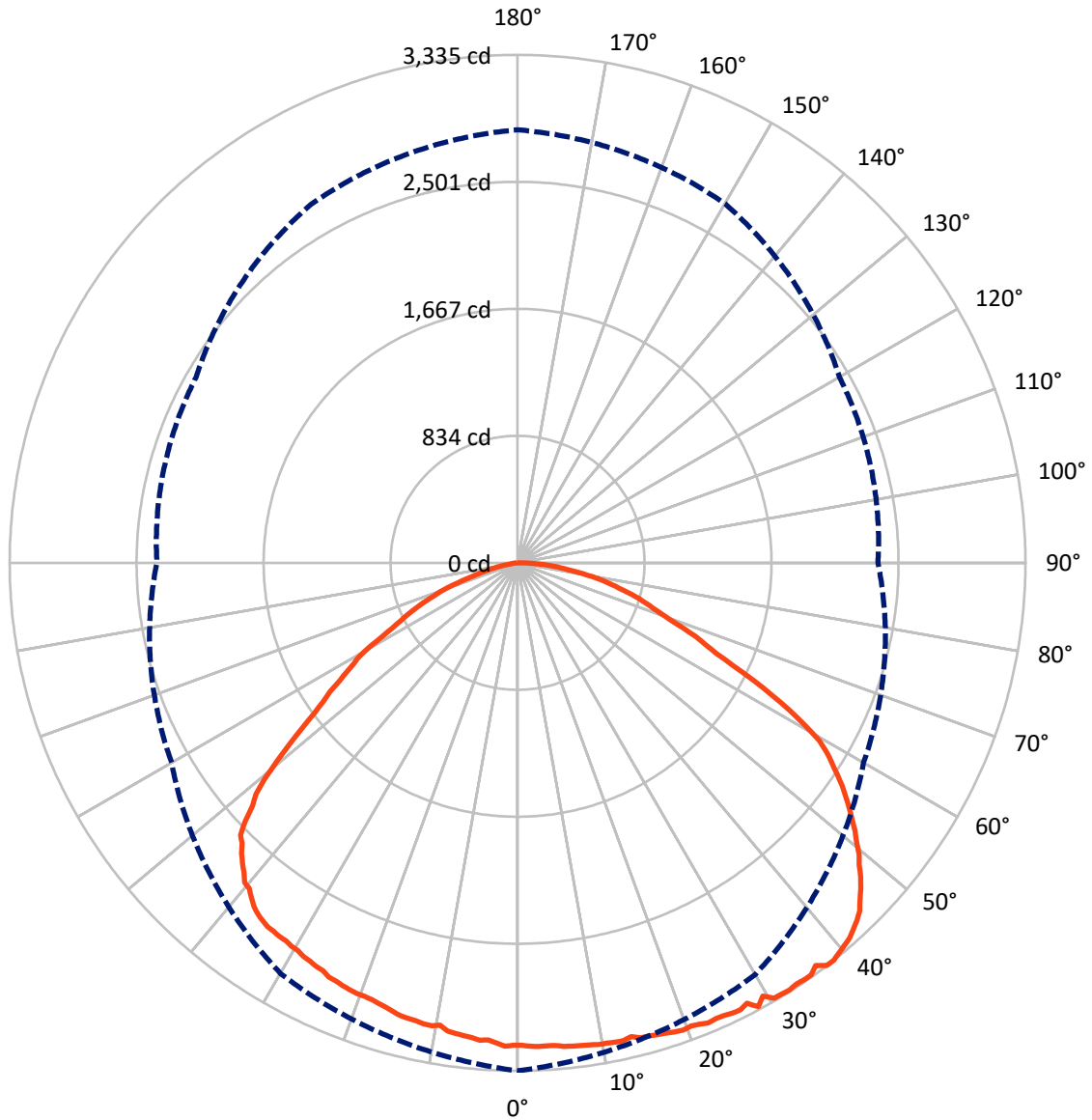
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 38-Deg Vertical

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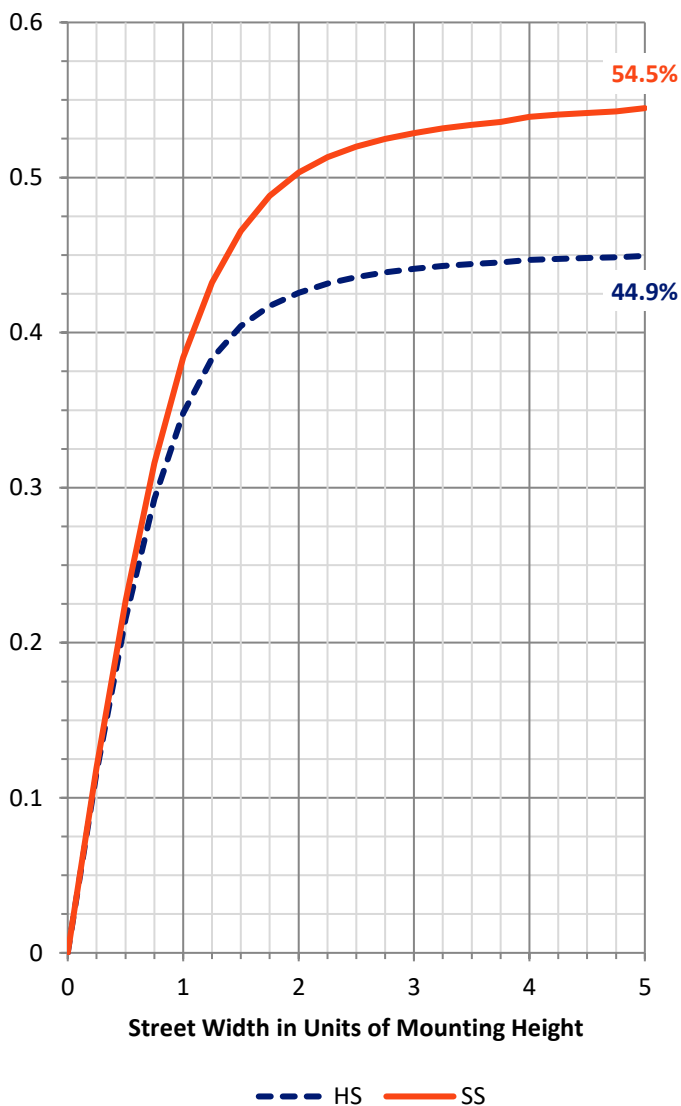
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4429.9	0.0	4429.9
	% Fixture	45.2	0.0	45.2
<b>Street Side</b>	Lumens	5380.1	0.0	5380.1
	% Fixture	54.8	0.0	54.8
<b>Total</b>	Lumens	9810.0	0.0	9810.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.6	3.1
10°-20°	874.0	8.9
20°-30°	1370.7	14.0
30°-40°	1749.1	17.8
40°-50°	1929.8	19.7
50°-60°	1738.5	17.7
60°-70°	1184.2	12.1
70°-80°	537.0	5.5
80°-90°	126.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9810.0	100.0
0°-180°	9810.0	100.0

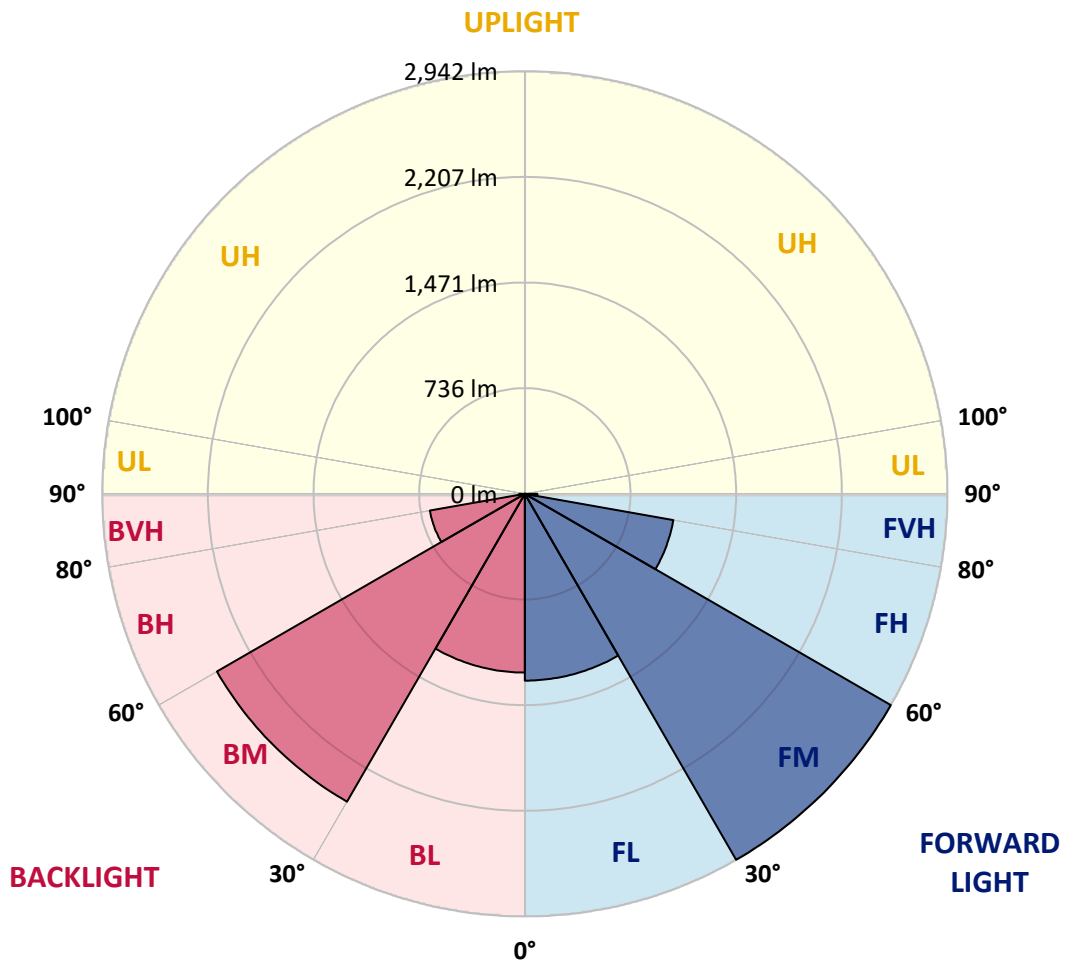


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1300.7	13.3			
FM	(30°-60°)	2942.2	30.0			
FH	(60°-80°)	1050.0	10.7			G1/1800
FVH	(80°-90°)	87.2	0.9			G1/100
BL	(0°-30°)	1244.5	12.7	B3/2500		
BM	(30°-60°)	2475.2	25.2	B2/2500		
BH	(60°-80°)	671.2	6.8	B2/1000		G2/1000
BVH	(80°-90°)	39.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6	3167.6
1°	3174.9	3185.3	3172.2	3162.8	3165.5	3167.8	3167.8	3157.1	3165.6	3166.8	3170.3
2°	3178.4	3182.7	3188.4	3169.4	3172.8	3159.6	3174.8	3168.7	3162.1	3121.3	3174.8
3°	3176.6	3189.2	3179.1	3160.6	3158.6	3161.6	3155.4	3151.5	3157.2	3163.8	3173.2
4°	3178.0	3177.4	3178.9	3161.9	3157.1	3144.7	3137.5	3147.9	3151.8	3168.3	3166.8
5°	3189.0	3175.3	3165.5	3180.1	3142.0	3135.0	3144.7	3142.6	3145.6	3161.2	3164.4
6°	3192.9	3176.8	3165.5	3145.1	3133.4	3125.9	3131.4	3134.4	3137.8	3177.2	3162.4
7°	3196.9	3178.9	3156.6	3135.4	3125.6	3119.4	3123.6	3135.8	3132.9	3136.3	3157.7
8°	3200.0	3182.6	3151.4	3122.8	3118.0	3113.3	3116.9	3132.1	3120.5	3132.9	3153.3
9°	3206.9	3188.0	3151.1	3111.8	3105.0	3068.1	3108.3	3112.2	3113.9	3122.7	3158.4
10°	3207.2	3185.6	3112.5	3107.5	3094.3	3091.3	3077.4	3100.8	3097.3	3111.2	3151.2
11°	3211.8	3190.4	3137.0	3099.9	3086.8	3081.4	3091.4	3087.3	3098.5	3110.7	3133.5
12°	3212.8	3189.2	3130.1	3093.9	3076.9	3076.1	3088.4	3103.0	3070.1	3079.7	3118.7
13°	3198.4	3185.6	3141.2	3071.0	3062.2	3065.7	3080.5	3071.8	3054.5	3066.5	3111.3
14°	3220.3	3191.6	3114.2	3058.6	3034.8	3063.3	3076.3	3029.0	3041.5	3055.2	3103.6
15°	3224.0	3173.5	3099.5	3036.5	3020.9	3055.4	3070.9	3043.7	2993.9	3038.9	3095.6
16°	3230.2	3222.6	3086.4	3017.5	3012.1	3041.0	3057.3	3041.3	3004.4	3028.9	3087.1
17°	3238.3	3199.7	3072.8	3009.6	2985.6	3028.9	3043.3	3025.5	2989.8	3008.2	3082.7
18°	3246.7	3183.5	3056.5	3007.5	2967.8	3006.3	3032.9	3009.1	2973.2	2980.9	3067.6
19°	3254.9	3187.6	3043.9	2962.8	2951.6	2991.1	3022.7	3004.6	2957.3	2973.2	3054.2
20°	3246.8	3187.6	3031.8	2944.5	2934.6	2976.0	3018.0	3001.0	2932.7	2957.1	3035.5
21°	3255.7	3183.5	3019.9	2922.3	2916.9	2999.1	3018.2	2979.4	2910.1	2925.5	2993.3
22°	3269.9	3140.9	3003.6	2903.1	2893.6	2962.0	3011.0	2967.8	2894.8	2902.6	3008.9
23°	3263.8	3169.8	2984.0	2877.9	2874.6	2955.5	3003.7	2945.8	2868.4	2877.8	2993.7
24°	3265.5	3170.7	2970.1	2851.0	2844.3	2946.6	2992.5	2937.6	2843.8	2855.2	2969.3
25°	3275.4	3168.6	2958.1	2828.6	2813.6	2926.7	2988.7	2921.5	2824.9	2828.9	2950.1
26°	3278.8	3158.4	2898.3	2801.3	2793.9	2911.8	2967.8	2932.6	2793.5	2805.6	2923.2
27°	3260.5	3156.6	2868.5	2778.9	2769.5	2900.7	2961.2	2894.8	2769.3	2776.0	2900.0
28°	3315.8	3153.0	2907.9	2737.5	2742.9	2874.9	2948.3	2879.6	2740.5	2743.7	2878.1
29°	3267.6	3149.1	2856.5	2725.4	2717.5	2867.9	2942.5	2862.7	2718.3	2713.6	2869.8
30°	3317.9	3155.6	2827.6	2672.7	2693.7	2853.0	2926.2	2846.2	2690.2	2684.0	2840.7
31°	3320.5	3154.6	2810.3	2639.9	2667.2	2841.1	2922.2	2830.5	2676.6	2647.7	2814.1
32°	3323.9	3154.3	2784.4	2605.4	2645.1	2816.2	2910.3	2817.8	2642.4	2614.1	2803.0
33°	3316.5	3149.9	2764.5	2572.0	2616.3	2807.3	2909.7	2807.0	2612.8	2567.4	2764.1
34°	3321.9	3139.3	2758.7	2532.0	2581.4	2790.9	2900.7	2795.9	2581.7	2527.2	2735.9
35°	3321.7	3128.2	2684.3	2492.2	2549.7	2778.4	2897.8	2776.4	2541.4	2491.2	2705.3
36°	3288.3	3129.1	2675.9	2452.3	2508.1	2760.8	2883.8	2747.0	2508.7	2448.5	2684.8
37°	3333.3	3121.3	2648.9	2406.9	2472.2	2740.8	2867.3	2734.2	2472.7	2412.7	2653.8
38°	3334.6	3120.0	2622.5	2365.6	2439.4	2722.5	2842.4	2715.8	2436.9	2367.8	2622.9
39°	3318.0	3103.0	2595.3	2321.4	2404.7	2698.8	2808.4	2698.7	2411.2	2330.6	2598.4
40°	3304.5	3095.6	2569.9	2282.8	2377.0	2671.1	2770.0	2675.0	2374.9	2286.0	2568.8
41°	3288.6	3084.5	2544.1	2238.6	2344.9	2643.7	2758.9	2655.7	2340.8	2239.7	2540.7
42°	3263.3	3068.1	2513.3	2186.3	2310.1	2608.4	2711.0	2623.2	2301.9	2192.8	2516.0
43°	3237.0	3060.1	2487.6	2142.9	2274.5	2571.8	2672.7	2590.4	2265.3	2141.8	2487.8
44°	3204.2	3050.6	2452.5	2095.0	2239.6	2536.2	2631.5	2555.5	2229.9	2096.3	2457.1



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3152.7	3021.9	2426.6	2044.5	2196.2	2497.6	2580.5	2507.0	2199.6	2045.3	2427.5
46°	3106.4	2986.6	2398.5	1992.7	2156.3	2452.4	2549.6	2466.4	2157.2	1992.7	2400.1
47°	3054.8	2951.4	2368.9	1943.2	2118.4	2397.6	2465.4	2427.1	2110.8	1944.1	2361.8
48°	2995.0	2910.3	2336.6	1889.8	2072.0	2348.2	2359.0	2380.6	2068.5	1888.6	2330.6
49°	2948.7	2863.5	2311.5	1808.2	2025.6	2291.9	2292.2	2299.4	2030.9	1839.0	2308.2
50°	2884.9	2788.3	2283.0	1775.3	1974.2	2228.2	2179.7	2270.6	1975.5	1783.1	2281.0
51°	2830.7	2743.4	2257.9	1721.9	1927.6	2152.2	2045.6	2198.3	1926.8	1731.3	2259.5
52°	2767.2	2681.6	2237.2	1666.4	1875.3	2031.0	1911.9	2115.0	1877.2	1674.4	2234.4
53°	2709.9	2611.9	2214.3	1608.1	1826.3	1912.8	1782.6	2006.5	1844.1	1616.8	2206.4
54°	2647.7	2539.4	2190.0	1549.1	1776.1	1788.9	1659.3	1887.9	1770.1	1547.3	2176.4
55°	2584.7	2483.5	2162.0	1489.3	1723.9	1656.4	1565.8	1756.5	1714.0	1496.5	2155.9
56°	2515.8	2428.5	2128.2	1421.1	1656.6	1541.8	1493.8	1641.6	1662.9	1425.5	2128.1
57°	2446.8	2367.6	2099.4	1358.9	1599.3	1445.7	1400.6	1512.8	1605.5	1364.6	2098.8
58°	2380.5	2294.1	2051.2	1298.8	1541.8	1362.6	1323.5	1417.1	1548.2	1301.8	2079.9
59°	2298.0	2222.8	2000.1	1239.2	1483.8	1278.5	1257.8	1342.6	1490.5	1242.4	2015.0
60°	2172.0	2153.6	1942.0	1173.3	1423.9	1207.5	1198.8	1275.3	1430.5	1179.4	1956.3
61°	2036.6	2090.3	1878.2	1114.2	1363.6	1155.5	1103.3	1193.5	1370.4	1120.3	1894.7
62°	1888.5	2006.8	1801.7	1055.6	1297.5	1095.6	1005.7	1131.5	1306.6	1052.1	1823.7
63°	1729.6	1897.1	1710.0	999.2	1219.0	1017.2	927.1	1079.4	1238.7	995.2	1742.8
64°	1562.4	1769.3	1618.7	937.6	1124.9	934.6	864.5	1003.7	1161.6	937.7	1647.4
65°	1437.6	1630.6	1523.2	879.3	1046.8	879.6	811.5	923.3	1077.6	880.3	1553.3
66°	1344.5	1462.6	1424.1	819.6	949.5	836.0	757.9	864.6	988.6	819.2	1460.6
67°	1266.1	1321.1	1325.8	757.2	858.4	791.9	699.6	822.9	879.0	760.2	1356.3
68°	1169.9	1208.2	1215.7	690.8	770.4	742.6	646.4	773.3	792.8	693.6	1250.5
69°	1072.1	1116.8	1121.6	628.7	702.0	694.6	587.7	731.5	713.3	635.9	1154.6
70°	1000.4	1040.8	1042.4	569.0	649.3	649.1	538.0	683.4	656.1	571.5	1065.0
71°	936.8	952.9	973.6	511.3	602.8	603.2	478.0	640.1	607.3	516.1	1005.0
72°	885.5	880.9	887.2	449.0	551.8	557.2	415.1	595.5	559.7	457.1	924.2
73°	834.3	825.5	776.5	397.0	512.7	508.6	354.6	550.2	514.5	400.8	821.3
74°	777.3	775.7	658.0	344.6	479.2	453.7	300.9	498.7	478.2	346.0	698.0
75°	715.9	722.1	537.4	296.3	443.8	386.5	260.1	443.2	448.0	298.5	578.6
76°	659.4	675.0	461.8	248.9	412.1	333.0	220.5	379.8	413.3	254.6	489.2
77°	606.7	624.1	411.2	208.3	382.2	288.5	185.7	329.2	385.3	209.8	431.6
78°	555.2	573.2	355.9	171.9	353.5	248.9	152.0	279.9	355.6	173.5	379.8
79°	497.8	533.9	310.0	140.9	325.7	208.5	118.4	238.4	328.4	142.8	325.1
80°	437.3	495.4	257.9	109.9	294.4	177.4	87.6	205.8	300.1	113.6	279.6
81°	375.6	452.5	215.4	87.0	265.1	145.8	58.2	174.4	270.4	89.3	231.6
82°	325.6	389.8	185.3	67.9	235.9	96.9	44.9	139.8	239.7	68.6	197.6
83°	285.1	310.7	162.8	50.3	201.7	43.0	33.7	81.5	210.0	53.0	170.4
84°	241.6	242.1	141.5	38.4	162.8	23.3	26.1	34.6	175.5	38.6	150.7
85°	196.0	200.7	122.1	27.6	133.2	16.3	17.6	21.6	140.8	28.1	131.5
86°	145.1	158.6	104.6	18.8	104.5	9.7	10.3	13.8	113.5	19.2	113.2
87°	107.9	113.8	83.7	12.5	61.6	6.6	0.0	8.0	78.4	12.2	98.0
88°	56.1	74.5	48.1	0.0	0.0	5.3	0.0	0.0	0.0	0.0	65.3
89°	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	24.1



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449869  
 CATALOG NUMBER: TWC150\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449869  
CATALOG NUMBER: TWC150\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449869  
CATALOG NUMBER: TWC150\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	3167.6	3167.6
1°	3167.5	3174.9
2°	3172.1	3178.4
3°	3171.3	3176.6
4°	3184.8	3178.0
5°	3183.7	3189.0
6°	3182.0	3192.9
7°	3182.4	3196.9
8°	3181.8	3200.0
9°	3175.0	3206.9
10°	3177.9	3207.2
11°	3192.0	3211.8
12°	3184.3	3212.8
13°	3210.5	3198.4
14°	3182.2	3220.3
15°	3176.1	3224.0
16°	3174.3	3230.2
17°	3174.2	3238.3
18°	3180.8	3246.7
19°	3180.0	3254.9
20°	3180.4	3246.8
21°	3154.1	3255.7
22°	3164.5	3269.9
23°	3161.2	3263.8
24°	3135.4	3265.5
25°	3162.9	3275.4
26°	3175.0	3278.8
27°	3153.6	3260.5
28°	3151.7	3315.8
29°	3156.1	3267.6
30°	3145.5	3317.9
31°	3140.9	3320.5
32°	3147.2	3323.9
33°	3135.3	3316.5
34°	3131.1	3321.9
35°	3123.6	3321.7
36°	3115.8	3288.3
37°	3107.5	3333.3
38°	3113.0	3334.6
39°	3080.7	3318.0
40°	3095.9	3304.5
41°	3083.6	3288.6
42°	3069.2	3263.3
43°	3050.6	3237.0
44°	3069.1	3204.2



REPORT NUMBER: P1449869  
CATALOG NUMBER: TWC150\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	3017.0	3152.7
46°	2998.5	3106.4
47°	2974.7	3054.8
48°	2935.8	2995.0
49°	2892.9	2948.7
50°	2836.5	2884.9
51°	2779.8	2830.7
52°	2717.1	2767.2
53°	2649.5	2709.9
54°	2584.7	2647.7
55°	2523.2	2584.7
56°	2459.2	2515.8
57°	2402.3	2446.8
58°	2334.5	2380.5
59°	2267.3	2298.0
60°	2196.8	2172.0
61°	2129.3	2036.6
62°	2049.3	1888.5
63°	1977.1	1729.6
64°	1854.7	1562.4
65°	1717.5	1437.6
66°	1572.2	1344.5
67°	1405.6	1266.1
68°	1293.1	1169.9
69°	1185.0	1072.1
70°	1097.6	1000.4
71°	1014.9	936.8
72°	926.3	885.5
73°	862.6	834.3
74°	812.4	777.3
75°	762.6	715.9
76°	711.9	659.4
77°	662.3	606.7
78°	615.7	555.2
79°	565.0	497.8
80°	518.4	437.3
81°	487.2	375.6
82°	439.7	325.6
83°	376.8	285.1
84°	289.1	241.6
85°	232.5	196.0
86°	193.8	145.1
87°	149.3	107.9
88°	107.3	56.1
89°	63.4	0.0



REPORT NUMBER: P1449869  
CATALOG NUMBER: TWC150\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	0.0	0.0
91°	0.0	0.0
92°	0.0	0.0
93°	0.0	0.0
94°	0.0	0.0
95°	0.0	0.0
96°	0.0	0.0
97°	0.0	0.0
98°	0.0	0.0
99°	0.0	0.0
100°	0.0	0.0
101°	0.0	0.0
102°	0.0	0.0
103°	0.0	0.0
104°	0.0	0.0
105°	0.0	0.0
106°	0.0	0.0
107°	0.0	0.0
108°	0.0	0.0
109°	0.0	0.0
110°	0.0	0.0
111°	0.0	0.0
112°	0.0	0.0
113°	0.0	0.0
114°	0.0	0.0
115°	0.0	0.0
116°	0.0	0.0
117°	0.0	0.0
118°	0.0	0.0
119°	0.0	0.0
120°	0.0	0.0
121°	0.0	0.0
122°	0.0	0.0
123°	0.0	0.0
124°	0.0	0.0
125°	0.0	0.0
126°	0.0	0.0
127°	0.0	0.0
128°	0.0	0.0
129°	0.0	0.0
130°	0.0	0.0
131°	0.0	0.0
132°	0.0	0.0
133°	0.0	0.0
134°	0.0	0.0



REPORT NUMBER: P1449869  
CATALOG NUMBER: TWC150\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
135°	0.0	0.0
136°	0.0	0.0
137°	0.0	0.0
138°	0.0	0.0
139°	0.0	0.0
140°	0.0	0.0
141°	0.0	0.0
142°	0.0	0.0
143°	0.0	0.0
144°	0.0	0.0
145°	0.0	0.0
146°	0.0	0.0
147°	0.0	0.0
148°	0.0	0.0
149°	0.0	0.0
150°	0.0	0.0
151°	0.0	0.0
152°	0.0	0.0
153°	0.0	0.0
154°	0.0	0.0
155°	0.0	0.0
156°	0.0	0.0
157°	0.0	0.0
158°	0.0	0.0
159°	0.0	0.0
160°	0.0	0.0
161°	0.0	0.0
162°	0.0	0.0
163°	0.0	0.0
164°	0.0	0.0
165°	0.0	0.0
166°	0.0	0.0
167°	0.0	0.0
168°	0.0	0.0
169°	0.0	0.0
170°	0.0	0.0
171°	0.0	0.0
172°	0.0	0.0
173°	0.0	0.0
174°	0.0	0.0
175°	0.0	0.0
176°	0.0	0.0
177°	0.0	0.0
178°	0.0	0.0
179°	0.0	0.0

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

Scaled Data Report



REPORT NUMBER: P1449869  
CATALOG NUMBER: TWC150\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
180°	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-1

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-3000K

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

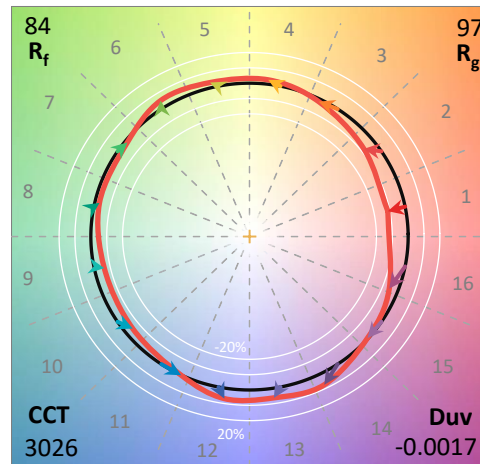
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2601-659-1  
 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-3000K**  
 Description: Mester Wedge, at T4 beam setting, 24W output, 3000K

**Spectral Parameters**

CCT (K): 3026  
 CIE u': 0.2503  
 CIE v': 0.5184  
 Duv: -0.0017  
 CIE x: 0.4326  
 CIE y: 0.3983  
 CIE z: 0.1691  
 Peak Wavelength (nm): 604  
 Dominant Wavelength (nm): 583  
 Purity: 49.3886  
 Rf: 84  
 Rg: 97.4

CRI (Ra):	82.7		
R1:	81.4	R9:	7.5
R2:	90.7	R10:	78.8
R3:	96.3	R11:	80.8
R4:	81.1	R12:	70.7
R5:	81.6	R13:	83.7
R6:	88.6	R14:	98.6
R7:	82.6	R15:	74.2
R8:	59.3		



**Test Conditions**

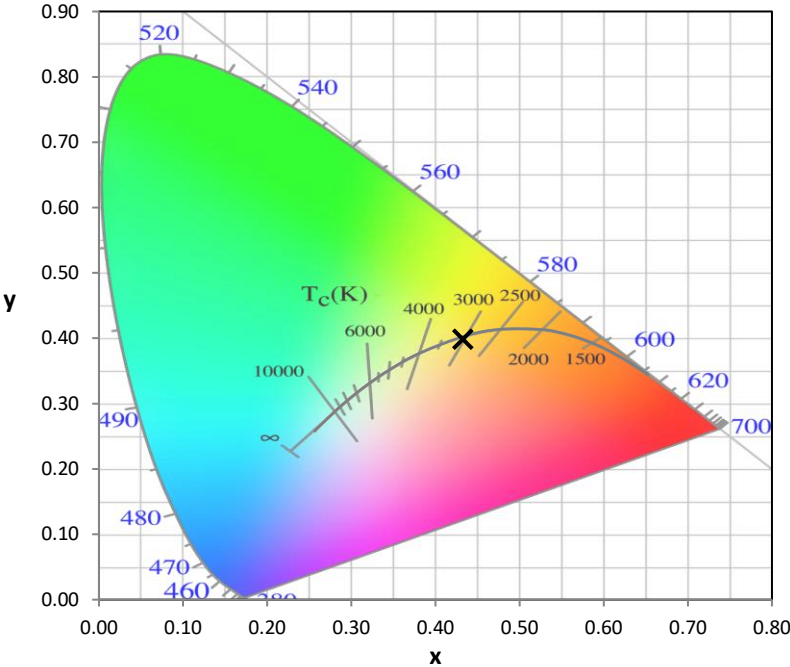
Stabilization Time: 64M  
 Operation Time: 2H 4M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-1

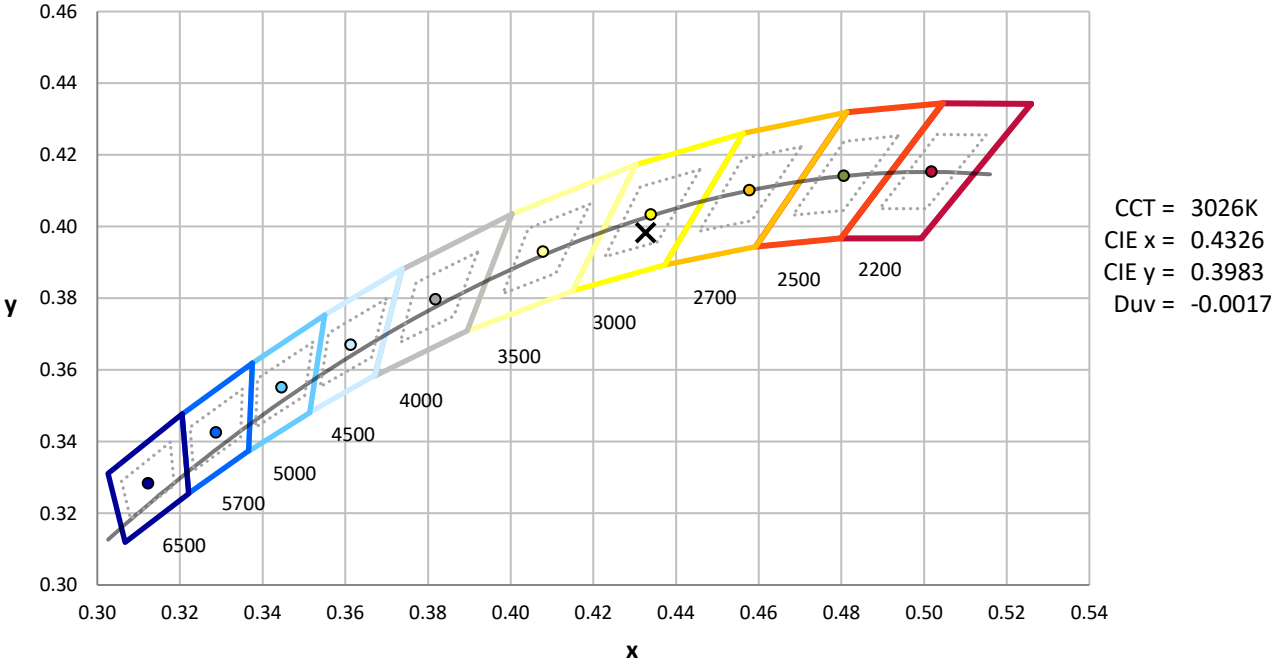
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2601-659-1

CIE 1931 Chromaticity Diagram



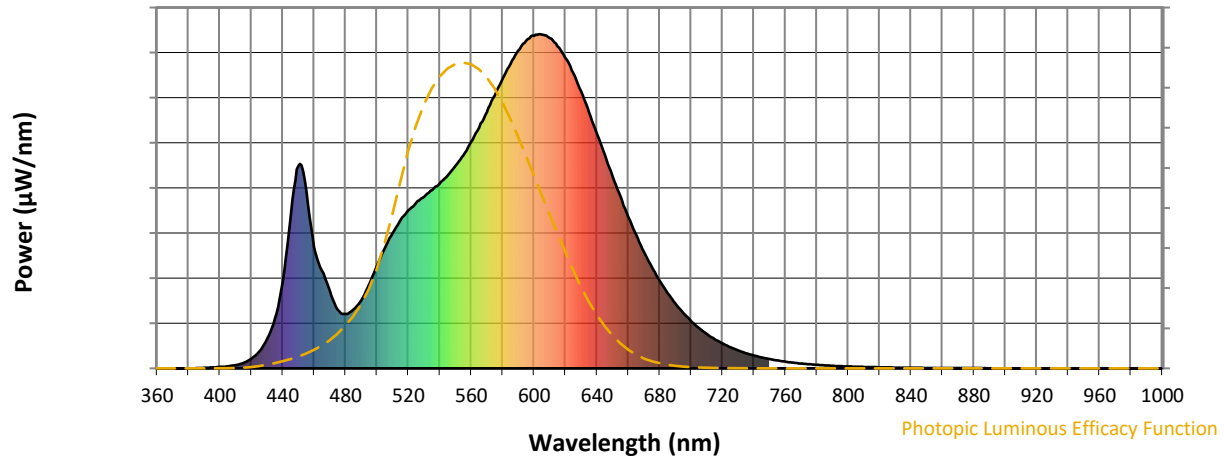
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

**Photopic Flux vs. Wavelength**

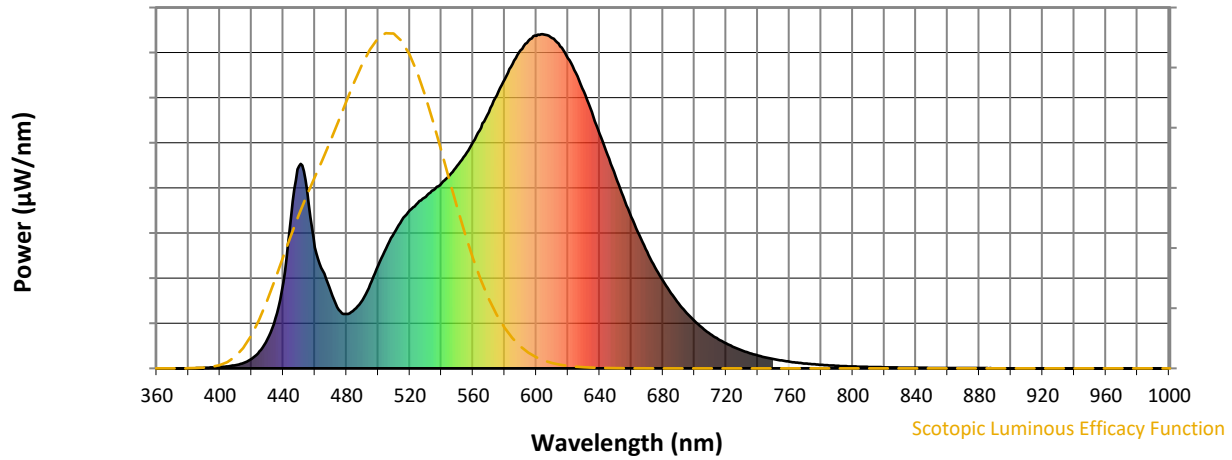


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

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**Scotopic Flux vs. Wavelength**



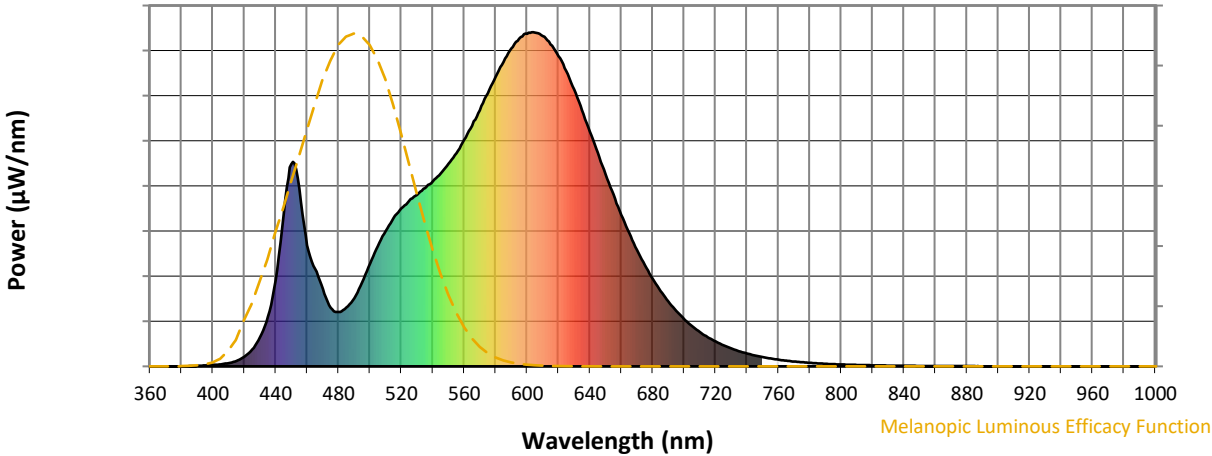
**Scotopic Lumens: NR**

**S/P: 1.35**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



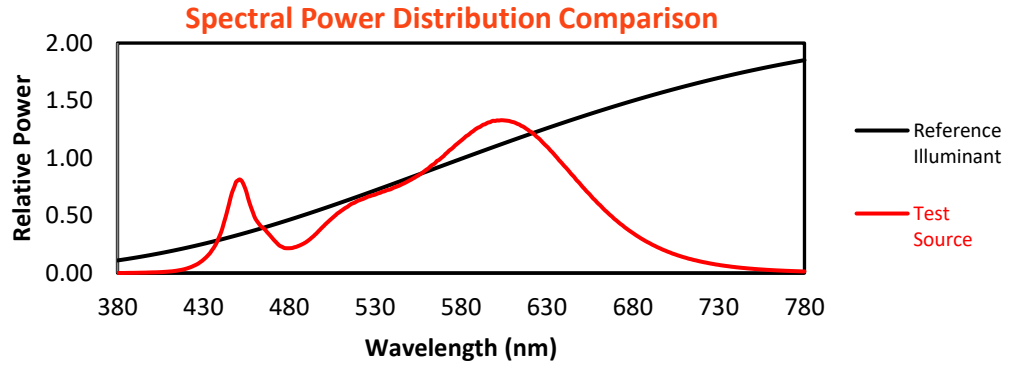
Melanopic Lumens: NR

M/P: 2.61

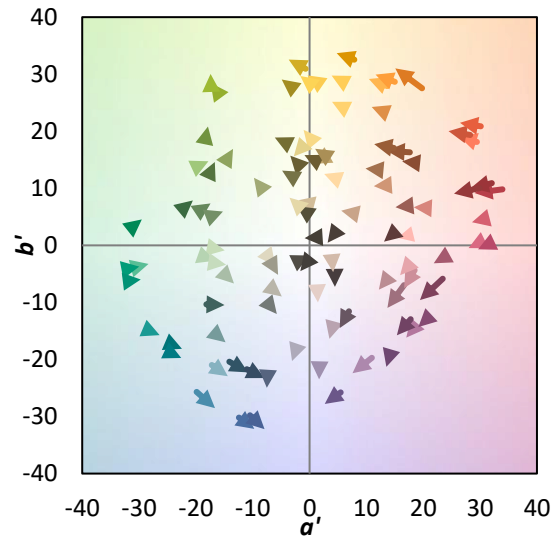
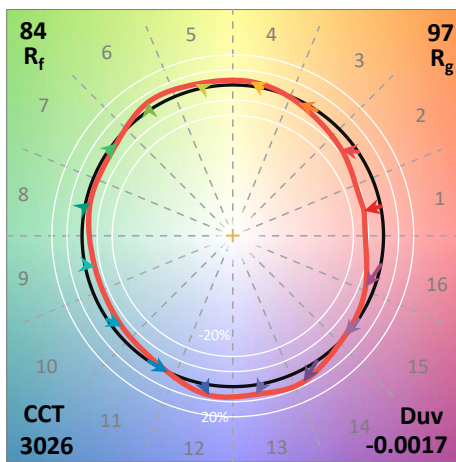
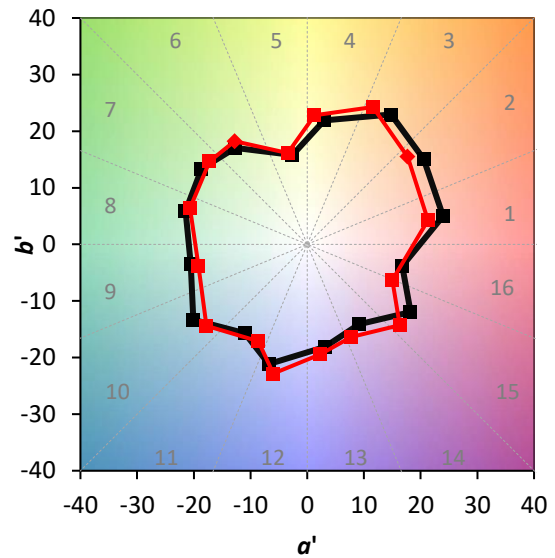
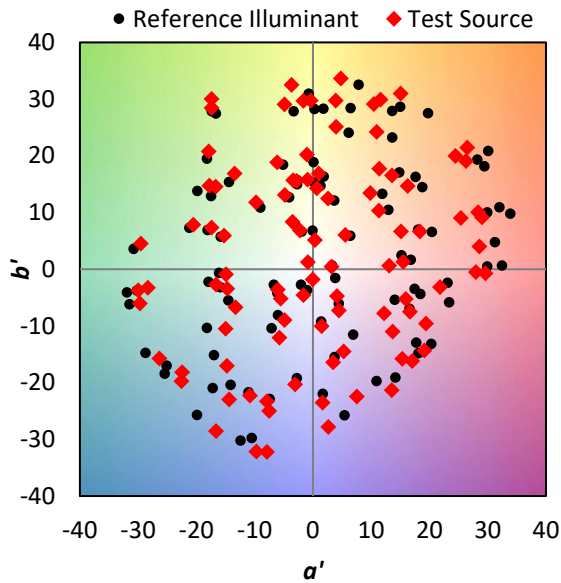
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

**Summary**

$R_f = 84$   
 $R_g = 97.4$   
 $CIE R_a = 82.7$   
 $R_9 = 7.5$

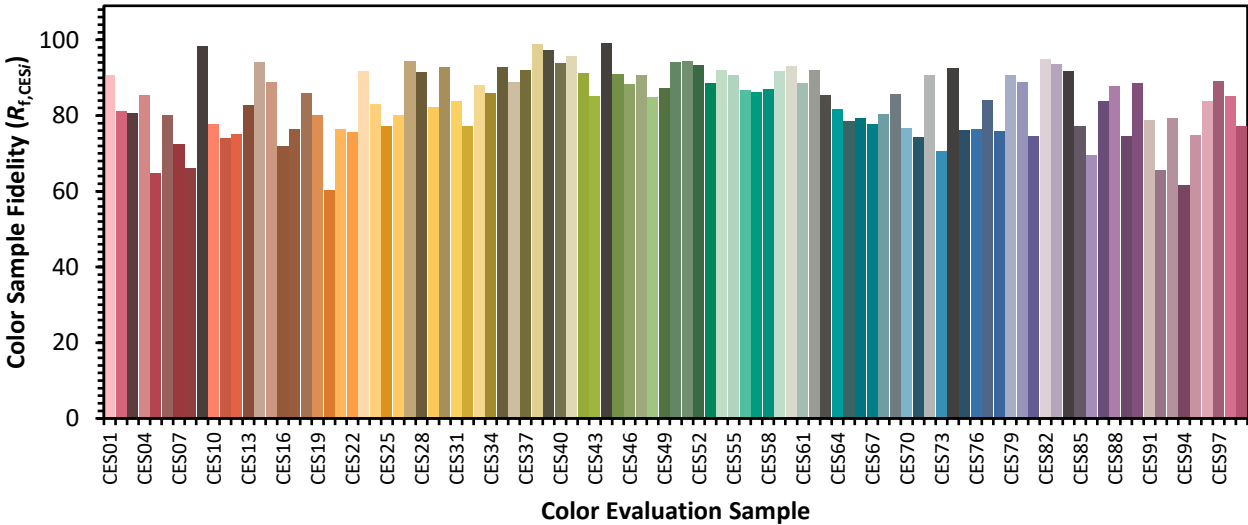


**Color Vector Graphics**

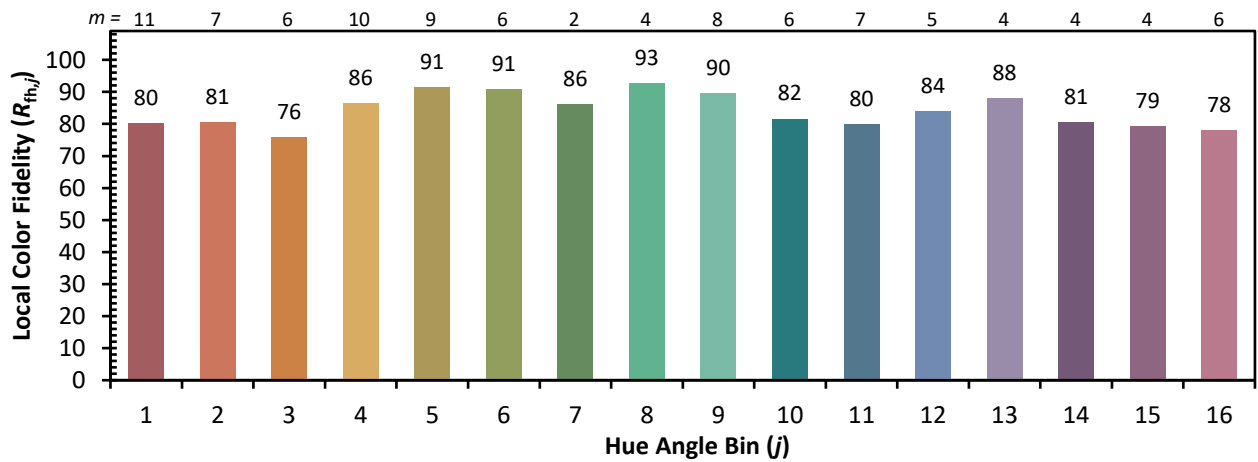
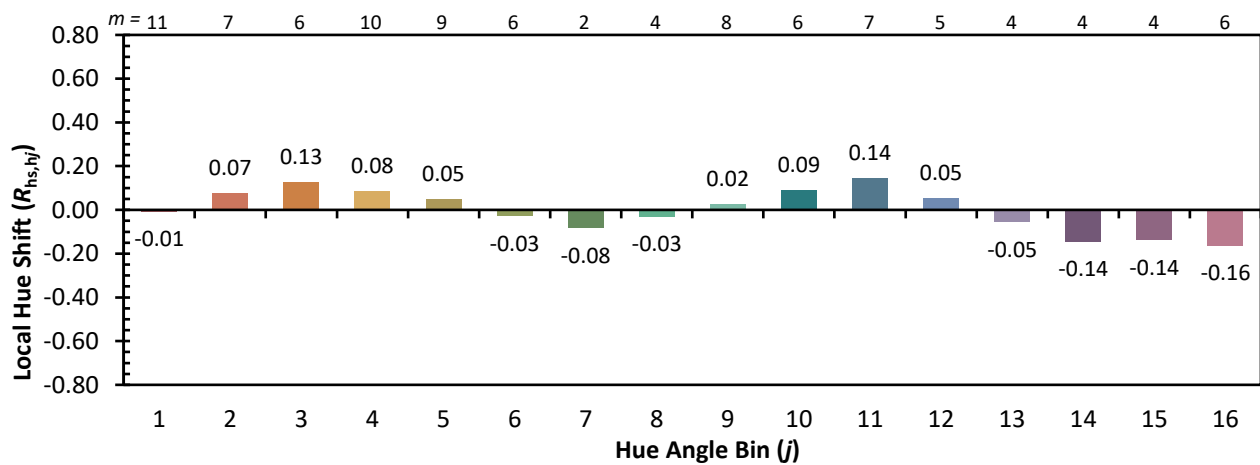
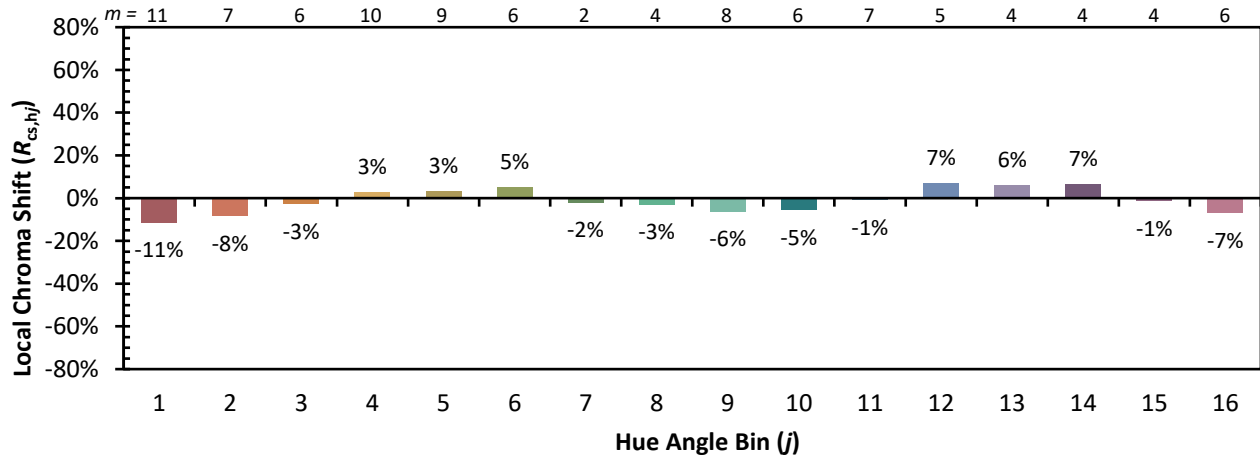


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

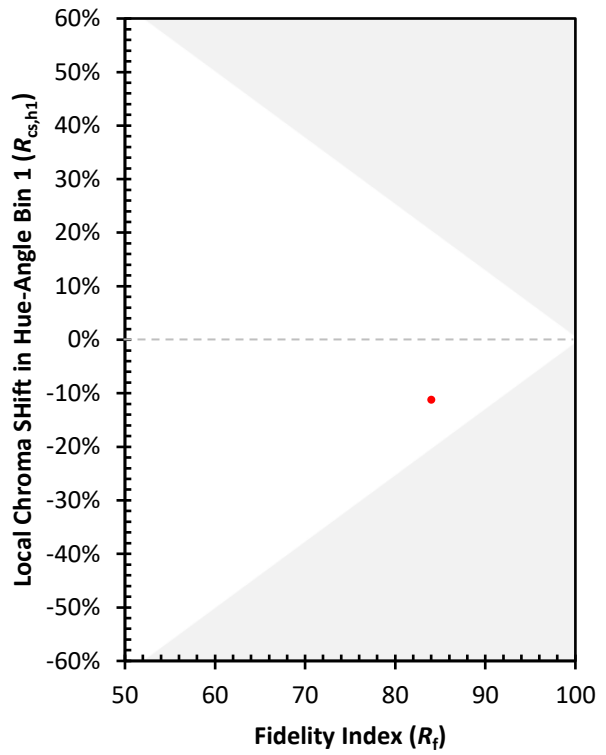
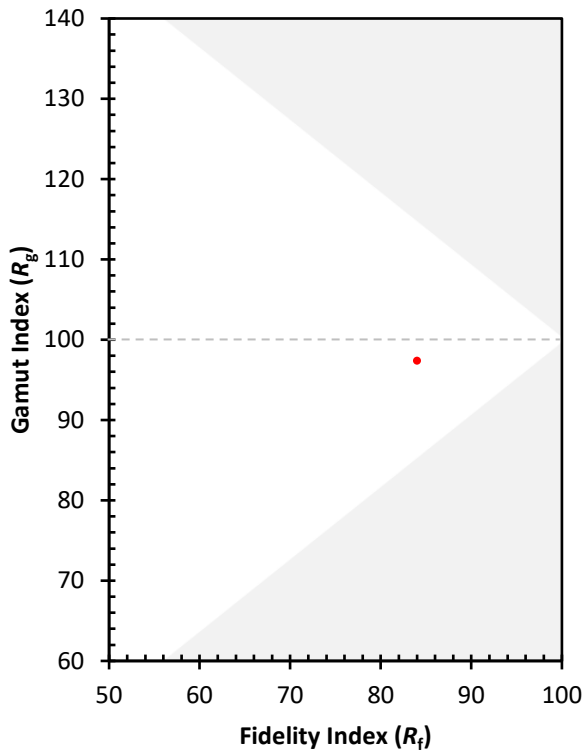
CES01 = 86	CES26 = 80	CES51 = 94	CES76 = 76
CES02 = 63	CES27 = 94	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 92	CES53 = 88	CES78 = 76
CES04 = 70	CES29 = 82	CES54 = 92	CES79 = 91
CES05 = 50	CES30 = 93	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 75
CES07 = 42	CES32 = 77	CES57 = 86	CES82 = 95
CES08 = 41	CES33 = 88	CES58 = 87	CES83 = 93
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 93	CES60 = 93	CES85 = 77
CES11 = 59	CES36 = 89	CES61 = 89	CES86 = 69
CES12 = 65	CES37 = 92	CES62 = 92	CES87 = 84
CES13 = 43	CES38 = 99	CES63 = 85	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 82	CES89 = 75
CES15 = 72	CES40 = 94	CES65 = 79	CES90 = 89
CES16 = 48	CES41 = 96	CES66 = 79	CES91 = 79
CES17 = 50	CES42 = 91	CES67 = 78	CES92 = 66
CES18 = 57	CES43 = 85	CES68 = 80	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 86	CES94 = 62
CES20 = 67	CES45 = 91	CES70 = 77	CES95 = 75
CES21 = 87	CES46 = 88	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 91	CES72 = 91	CES97 = 89
CES23 = 92	CES48 = 85	CES73 = 71	CES98 = 85
CES24 = 91	CES49 = 87	CES74 = 93	CES99 = 77
CES25 = 72	CES50 = 94	CES75 = 76	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)