

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: P1449847

Luminaire Tested: **TWC100_T4_60W_5000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20260310010)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TWC100_T4_60W_5000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 60W
5000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10044 lumens
Efficiency: N/A
Efficacy: 171.1 lumens/watt
Luminous Opening: Rectangular (W 0.92' x L: 0.42' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U3 - G2

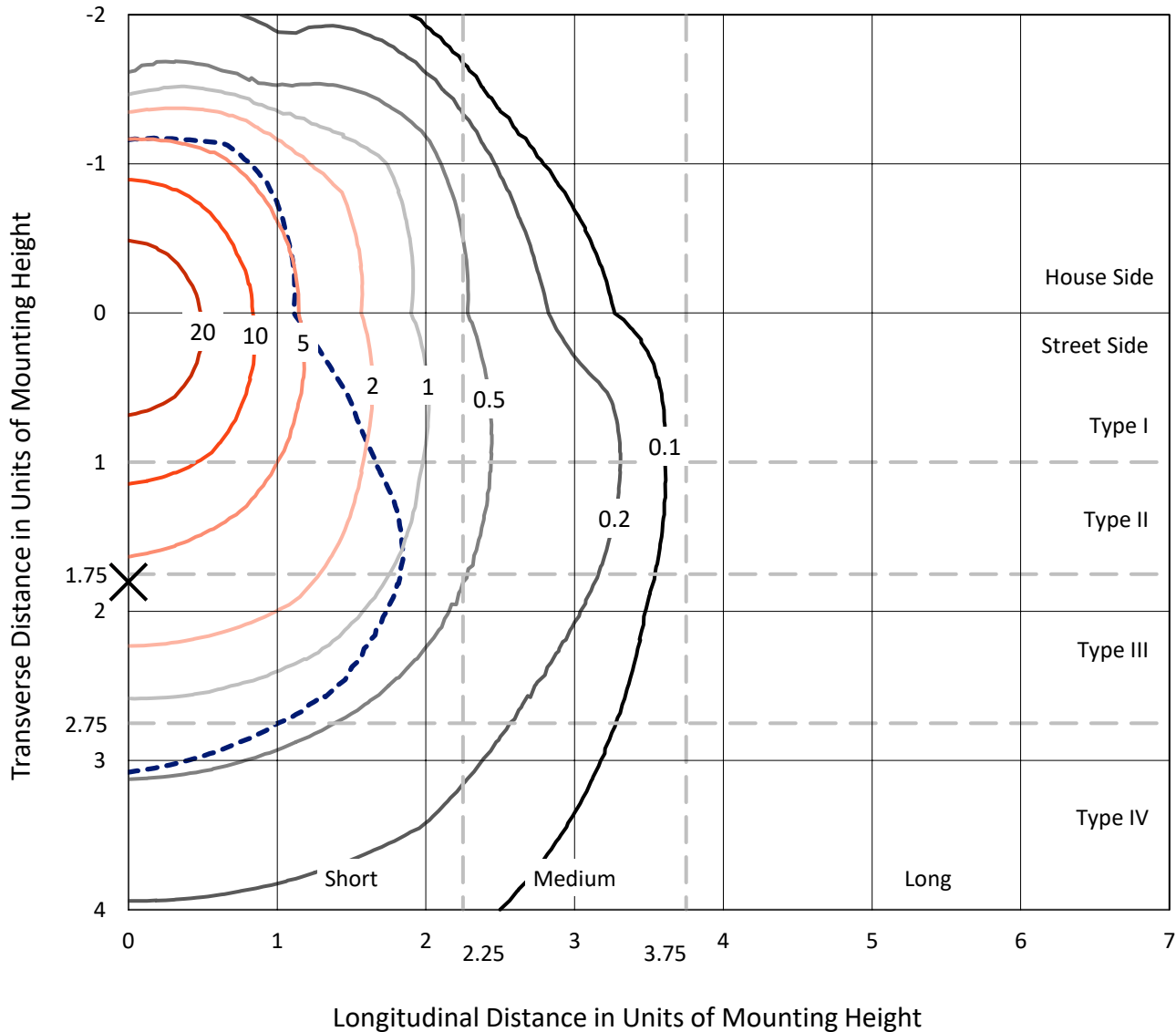
Input Watts (W): 58.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

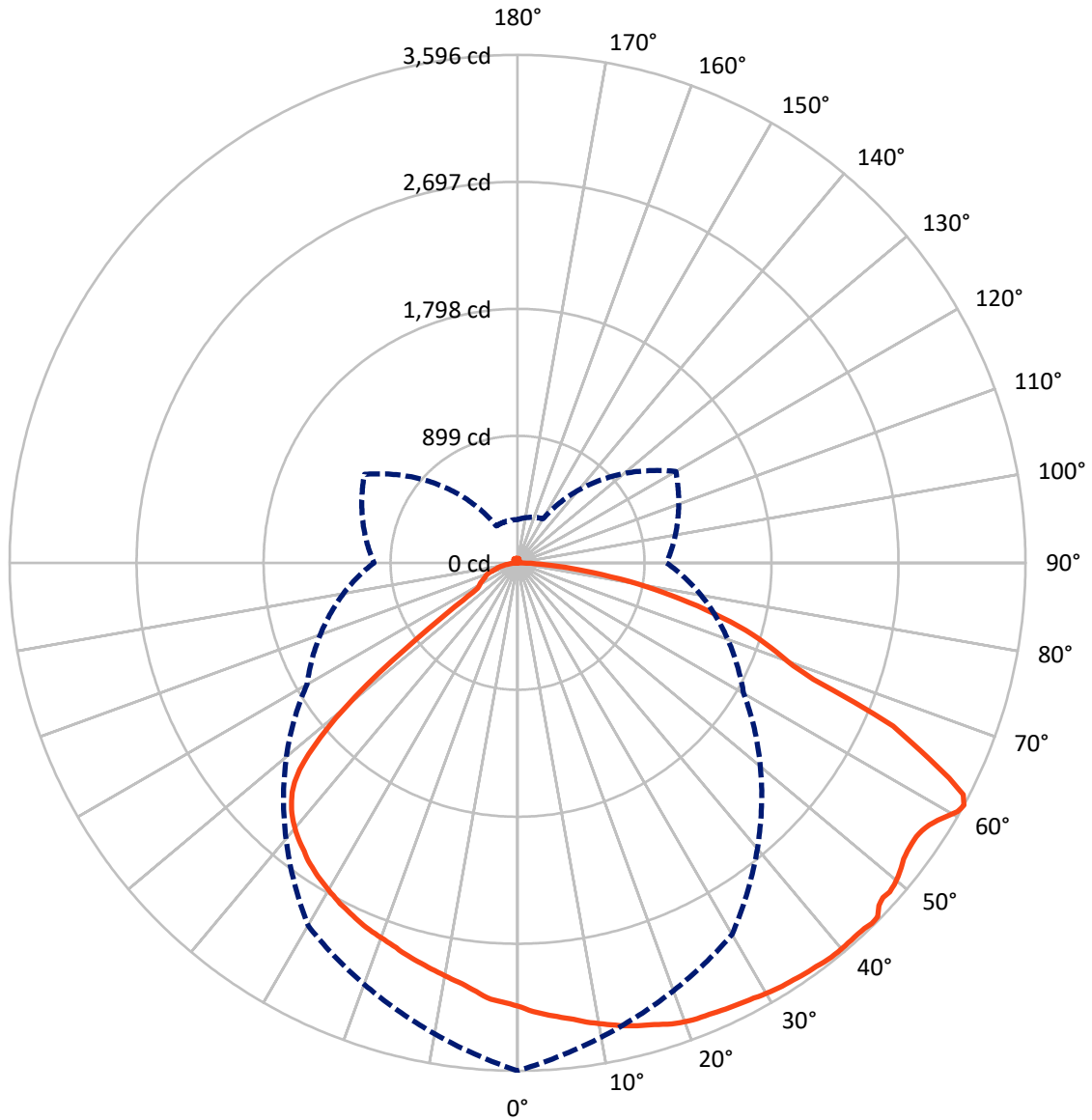
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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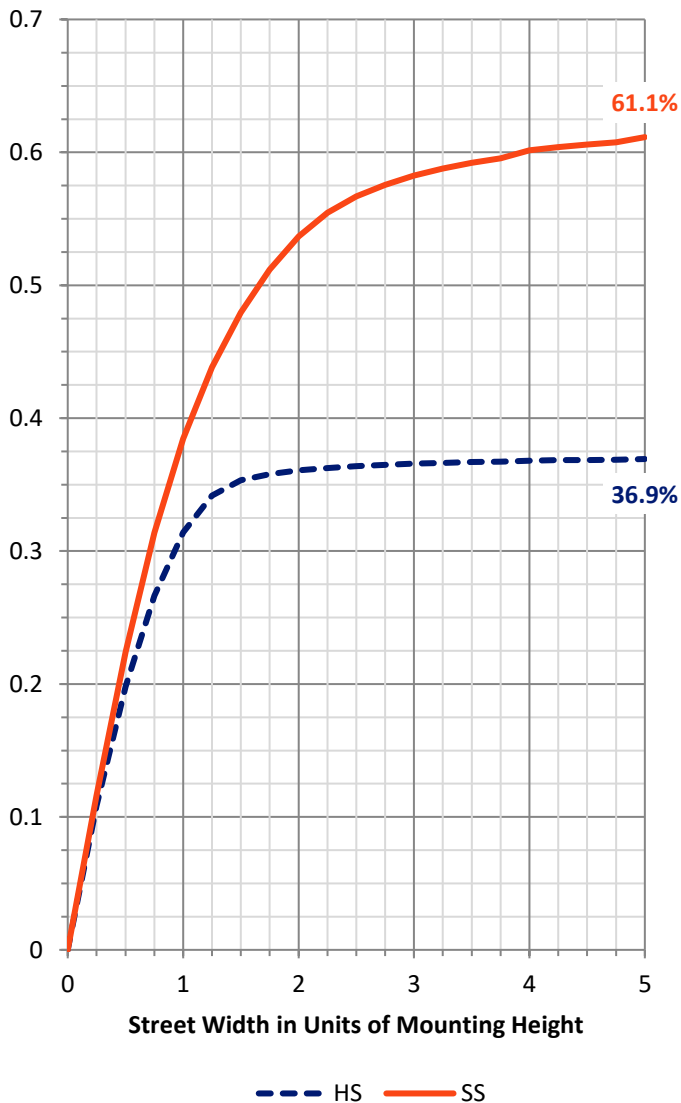
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3735.8	66.7	3802.5
	% Fixture	37.2	0.7	37.9
Street Side	Lumens	6199.8	41.8	6241.6
	% Fixture	61.7	0.4	62.1
Total	Lumens	9935.6	108.4	10044.0
	% Fixture	98.9	1.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.0	3.0
10°-20°	869.7	8.7
20°-30°	1357.3	13.5
30°-40°	1714.1	17.1
40°-50°	1889.7	18.8
50°-60°	1707.2	17.0
60°-70°	1289.7	12.8
70°-80°	652.6	6.5
80°-90°	156.3	1.6
90°-100°	5.8	0.1
100°-110°	10.2	0.1
110°-120°	14.5	0.1
120°-130°	17.5	0.2
130°-140°	18.2	0.2
140°-150°	16.8	0.2
150°-160°	13.5	0.1
160°-170°	8.8	0.1
170°-180°	3.1	0.0
0°-90°	9935.6	98.9
0°-180°	10044.0	100.0

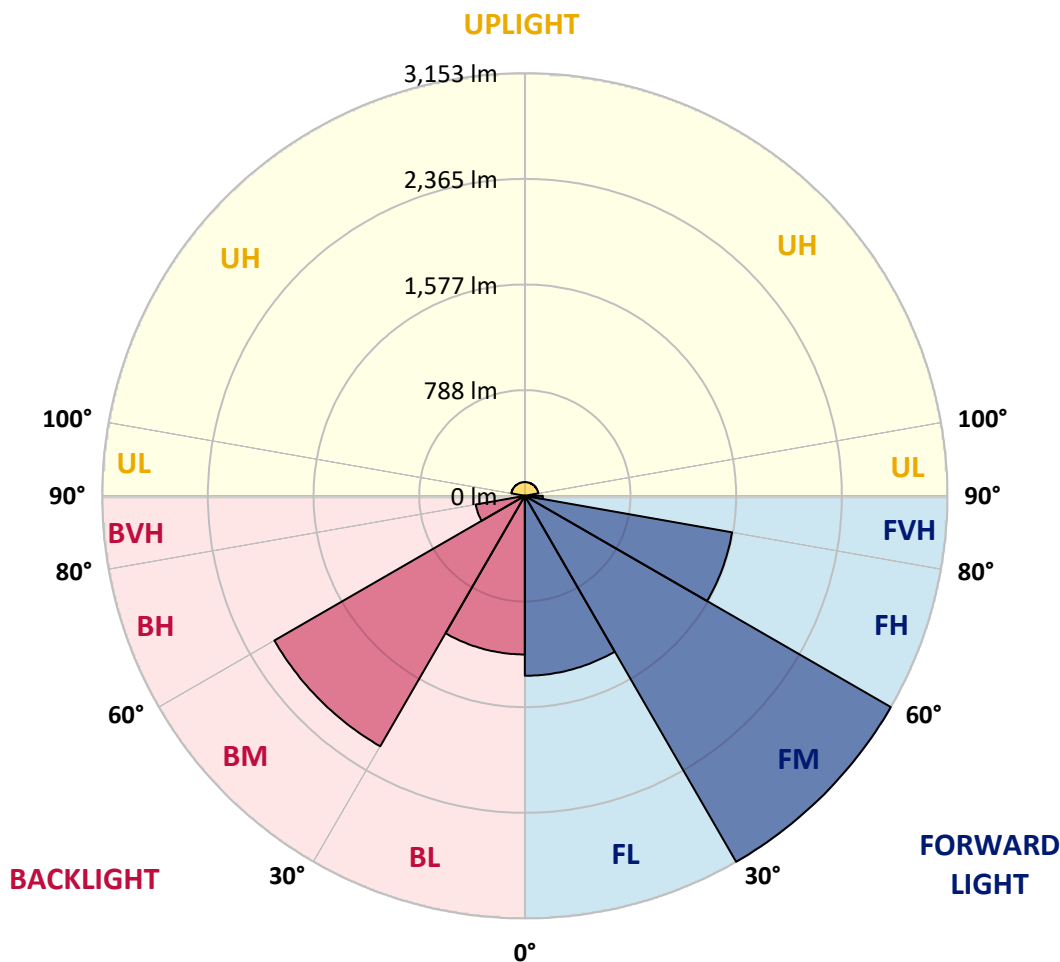


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.3	13.4			
FM (30°-60°)	3153.1	31.4			
FH (60°-80°)	1570.3	15.6			G1/1800
FVH (80°-90°)	134.1	1.3			G2/225
BL (0°-30°)	1183.7	11.8	B3/2500		
BM (30°-60°)	2157.9	21.5	B2/2500		
BH (60°-80°)	372.0	3.7	B1/500		G1/500
BVH (80°-90°)	22.2	0.2			G1/100
UL (90°-100°)	5.8	0.1		U1/10	
UH (100°-180°)	102.6	1.0		U3/500	

BUG Rating: B3-U3-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1
1°	3169.8	3165.0	3156.0	3145.7	3142.2	3129.5	3130.2	3129.3	3138.5	3143.3	3156.8
2°	3186.3	3178.9	3161.1	3143.9	3128.1	3115.5	3116.0	3115.7	3129.0	3144.9	3158.1
3°	3202.0	3191.7	3167.9	3143.5	3118.4	3105.4	3105.7	3103.6	3112.6	3140.8	3162.6
4°	3217.9	3205.1	3172.9	3139.2	3108.3	3094.0	3095.7	3095.8	3103.0	3134.9	3168.0
5°	3232.2	3215.6	3177.2	3135.1	3097.0	3083.5	3075.1	3082.6	3092.0	3128.5	3169.4
6°	3247.7	3227.3	3183.4	3129.4	3085.8	3069.5	3047.9	3061.1	3081.3	3114.8	3177.0
7°	3265.6	3240.4	3186.3	3121.9	3076.0	3043.4	3026.9	3031.7	3070.1	3106.1	3178.3
8°	3286.3	3255.8	3188.6	3112.9	3064.0	3018.9	3005.9	3011.4	3056.6	3095.2	3179.1
9°	3304.1	3270.1	3190.3	3098.2	3050.5	2996.6	2991.1	2994.5	3041.5	3084.2	3179.4
10°	3320.6	3284.1	3191.6	3087.9	3035.6	2979.3	2975.7	2978.6	3019.9	3073.0	3178.3
11°	3337.4	3295.7	3190.1	3075.0	3017.8	2961.2	2960.2	2957.5	2997.5	3058.9	3175.3
12°	3356.5	3310.2	3186.9	3060.5	2992.3	2945.2	2945.5	2941.4	2974.9	3043.5	3172.5
13°	3369.9	3319.4	3184.9	3049.7	2969.5	2929.4	2932.2	2925.4	2950.9	3024.3	3170.7
14°	3385.3	3327.1	3183.2	3032.8	2944.8	2913.4	2916.9	2913.6	2923.2	3006.4	3162.9
15°	3395.6	3333.3	3179.3	3015.9	2920.3	2897.7	2903.7	2897.2	2899.5	2988.2	3157.0
16°	3409.7	3342.9	3177.8	2991.4	2896.9	2881.4	2889.0	2879.7	2875.1	2968.2	3149.5
17°	3424.6	3351.7	3172.5	2972.0	2872.5	2858.8	2876.0	2862.5	2852.0	2943.8	3144.6
18°	3443.0	3359.3	3165.0	2951.9	2847.1	2841.4	2856.8	2840.0	2830.0	2921.5	3135.4
19°	3453.6	3369.5	3151.5	2930.5	2823.1	2823.1	2843.6	2822.7	2805.9	2898.5	3124.5
20°	3461.8	3374.3	3140.3	2906.4	2794.0	2806.5	2829.6	2806.4	2782.1	2875.5	3104.4
21°	3468.6	3375.2	3127.3	2882.1	2768.0	2791.2	2818.4	2790.1	2749.8	2851.5	3088.3
22°	3470.7	3371.0	3112.6	2857.6	2742.4	2774.5	2807.8	2773.7	2725.5	2825.5	3070.5
23°	3476.1	3367.6	3095.2	2830.1	2713.7	2757.3	2794.8	2757.3	2699.6	2799.5	3052.7
24°	3482.0	3364.9	3078.4	2803.2	2687.8	2736.0	2780.7	2741.1	2673.8	2765.7	3035.5
25°	3489.3	3361.6	3060.1	2774.3	2660.6	2719.6	2764.8	2724.2	2646.4	2736.8	3016.0
26°	3493.9	3359.6	3042.4	2745.7	2633.7	2703.1	2749.9	2705.6	2618.8	2706.2	2994.1
27°	3500.4	3357.3	3022.5	2709.1	2605.4	2685.8	2733.6	2687.2	2592.4	2673.1	2972.7
28°	3505.9	3352.9	3000.2	2676.4	2577.7	2664.5	2719.9	2667.0	2561.0	2639.0	2946.3
29°	3516.8	3348.8	2977.2	2642.1	2549.1	2643.0	2701.4	2643.0	2532.7	2603.9	2921.8
30°	3523.8	3345.0	2947.0	2607.9	2519.1	2622.3	2684.5	2622.7	2502.8	2568.2	2895.8
31°	3530.4	3339.9	2922.9	2572.4	2482.9	2602.3	2667.2	2603.2	2472.9	2528.8	2864.0
32°	3536.7	3336.5	2898.1	2537.7	2452.3	2582.7	2648.5	2583.0	2437.4	2491.4	2837.7
33°	3540.2	3328.2	2873.1	2502.4	2421.7	2562.7	2631.3	2562.9	2407.2	2453.7	2809.8
34°	3546.5	3327.9	2846.9	2466.3	2391.1	2539.6	2611.0	2540.7	2375.9	2409.1	2780.5
35°	3551.7	3325.6	2818.7	2423.3	2358.2	2517.4	2590.1	2518.4	2343.9	2368.4	2751.5
36°	3555.9	3325.3	2788.7	2382.4	2326.8	2488.7	2568.2	2493.9	2309.7	2325.3	2718.3
37°	3564.1	3327.9	2757.7	2339.3	2293.1	2464.5	2540.0	2464.5	2274.9	2280.5	2685.6
38°	3567.0	3323.3	2719.5	2295.0	2257.1	2439.6	2517.2	2438.9	2239.1	2232.9	2652.2
39°	3568.9	3318.8	2686.1	2243.1	2215.3	2414.1	2492.9	2413.3	2203.3	2187.0	2609.6
40°	3568.0	3311.8	2652.2	2195.5	2178.2	2388.8	2466.5	2385.1	2163.2	2139.3	2573.6
41°	3566.0	3301.3	2618.8	2147.7	2142.7	2362.1	2436.7	2357.8	2127.3	2091.1	2536.7
42°	3565.0	3292.8	2580.8	2097.9	2104.0	2334.7	2404.1	2329.0	2091.4	2044.6	2499.1
43°	3568.4	3284.0	2546.5	2050.4	2067.7	2306.5	2368.0	2300.3	2055.3	1990.4	2460.7
44°	3579.0	3275.2	2512.3	2000.5	2031.3	2272.1	2324.2	2266.5	2016.6	1943.7	2425.3



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3574.3	3268.8	2479.6	1950.5	1994.4	2241.7	2277.5	2232.0	1979.0	1895.2	2388.3
46°	3525.7	3265.4	2446.3	1892.6	1955.7	2208.8	2212.5	2193.2	1942.9	1841.6	2353.9
47°	3507.3	3264.7	2414.2	1841.7	1918.1	2166.9	2127.6	2150.7	1902.0	1791.3	2316.6
48°	3516.5	3241.8	2381.6	1790.5	1879.7	2124.8	2006.7	2098.8	1865.0	1740.9	2282.6
49°	3508.5	3182.4	2349.1	1739.3	1842.0	2079.8	1865.0	2046.1	1827.3	1692.0	2248.1
50°	3490.5	3166.4	2309.4	1685.1	1803.0	2030.1	1693.1	1975.7	1789.5	1636.6	2208.5
51°	3470.2	3164.6	2276.3	1632.9	1757.9	1960.5	1485.3	1884.7	1750.3	1582.8	2172.9
52°	3444.2	3137.0	2241.0	1581.0	1719.5	1874.5	1257.2	1763.1	1705.6	1531.2	2137.0
53°	3432.6	3106.2	2202.9	1526.8	1681.3	1768.1	998.7	1621.4	1666.1	1477.9	2097.7
54°	3426.4	3074.2	2165.7	1466.4	1640.0	1634.2	785.3	1447.8	1625.5	1417.4	2055.4
55°	3424.3	3048.0	2132.9	1412.4	1599.6	1449.3	609.1	1243.7	1582.7	1363.2	2018.7
56°	3434.9	3030.5	2100.5	1356.9	1558.0	1251.6	469.3	996.6	1535.8	1307.8	1983.3
57°	3455.0	3016.1	2067.4	1293.5	1508.7	1033.3	380.6	780.5	1488.5	1251.6	1949.1
58°	3488.1	3009.7	2023.1	1233.9	1462.1	793.1	334.4	596.7	1437.1	1190.0	1905.5
59°	3531.3	3005.7	1948.6	1175.7	1411.8	602.9	321.2	457.0	1376.2	1130.4	1836.9
60°	3578.8	3010.8	1890.0	1117.1	1358.0	459.0	313.1	352.8	1316.3	1071.8	1769.7
61°	3595.8	3037.7	1847.3	1054.4	1293.8	360.3	306.1	301.5	1251.8	1016.5	1721.0
62°	3556.1	3084.1	1789.9	999.5	1229.3	296.9	297.3	285.4	1185.7	956.2	1661.6
63°	3413.1	3142.5	1717.8	947.6	1161.6	279.6	286.2	275.9	1105.0	905.2	1587.8
64°	3233.7	3165.0	1637.8	894.9	1092.4	269.9	275.5	267.6	1012.4	855.8	1508.8
65°	3061.9	3084.0	1565.1	836.7	1006.9	260.9	266.5	257.3	899.5	806.2	1430.4
66°	2898.4	2899.2	1490.9	784.6	908.9	250.0	256.9	245.9	759.3	751.6	1345.5
67°	2583.7	2680.7	1409.0	733.6	789.6	238.8	248.6	233.5	576.3	700.5	1269.0
68°	2250.7	2485.5	1346.6	675.8	621.0	227.3	242.0	222.4	414.8	647.5	1198.3
69°	2084.7	2164.9	1296.0	621.3	452.2	214.9	235.3	211.4	290.7	588.8	1131.1
70°	1983.2	1888.9	1261.6	565.0	315.7	203.7	226.4	201.6	217.3	534.6	1082.8
71°	1890.1	1760.1	1266.7	503.4	223.7	194.4	214.6	193.5	188.6	480.6	1060.1
72°	1792.3	1683.6	1467.1	448.9	191.1	186.4	198.3	184.2	177.4	428.0	1149.2
73°	1685.6	1607.2	1707.9	397.6	177.8	175.8	183.0	173.0	165.6	371.8	1499.5
74°	1562.0	1526.7	1322.0	349.6	165.4	164.3	168.1	162.3	152.9	323.6	1268.6
75°	1436.4	1446.2	841.7	299.9	151.7	153.4	154.0	148.0	142.5	278.5	766.9
76°	1310.8	1354.3	700.5	257.7	140.3	139.5	144.7	134.2	132.1	237.4	599.5
77°	1178.0	1254.3	621.3	219.6	129.0	126.1	136.3	119.4	121.8	201.0	523.1
78°	1055.0	1158.0	618.2	184.0	118.2	110.9	127.7	105.5	111.8	165.9	506.9
79°	928.3	1079.7	613.8	150.1	106.5	97.8	111.8	95.9	102.0	136.8	540.1
80°	803.5	999.5	477.4	122.7	96.9	87.8	99.3	87.2	92.8	110.4	396.1
81°	667.4	898.5	321.2	99.3	87.7	79.0	88.4	78.2	81.5	87.1	258.4
82°	547.1	776.2	268.4	77.9	74.9	70.3	73.3	67.8	69.9	65.3	215.0
83°	435.4	646.4	236.7	57.4	63.2	59.6	56.4	58.5	57.2	50.1	192.7
84°	337.3	558.0	207.5	42.9	51.1	49.8	42.3	49.0	46.4	38.4	169.6
85°	237.7	472.4	177.0	31.6	40.4	40.5	34.3	36.9	35.8	28.2	144.8
86°	160.9	340.6	147.5	22.0	29.7	28.9	22.0	26.2	28.4	19.2	115.4
87°	95.3	232.6	104.8	13.4	21.6	17.7	14.0	17.0	19.8	12.5	80.3
88°	32.0	89.2	42.2	7.0	12.8	9.8	10.6	11.3	12.1	7.2	25.8
89°	2.6	1.8	2.5	2.9	5.6	5.6	9.1	9.2	6.7	3.8	2.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1.0	0.9	1.0	1.3	2.6	4.0	9.5	9.2	6.2	3.1	2.7
91°	0.9	0.9	1.2	1.6	2.9	4.1	10.5	10.1	6.6	3.4	3.0
92°	1.0	1.0	1.2	1.3	3.3	4.7	11.4	10.7	7.1	3.7	3.2
93°	1.2	1.1	1.3	1.7	3.5	5.2	12.2	11.5	7.7	4.0	3.5
94°	1.2	1.1	1.5	1.8	3.8	5.7	13.0	12.3	8.2	4.2	3.6
95°	1.2	1.2	1.7	2.1	4.2	6.4	14.0	13.0	8.6	4.6	4.0
96°	1.1	1.1	1.7	2.2	4.4	6.8	15.0	13.9	9.1	5.1	4.4
97°	1.4	1.3	2.0	2.5	4.9	7.6	15.9	14.5	9.8	5.4	4.8
98°	1.3	1.3	2.1	2.7	5.4	8.2	16.6	15.3	10.4	5.8	5.1
99°	1.4	1.5	2.5	2.9	5.7	8.8	17.5	16.1	10.8	6.2	5.6
100°	1.4	1.6	2.6	3.1	6.3	9.3	18.5	16.9	11.6	6.7	5.9
101°	1.6	1.8	2.9	3.5	6.5	9.9	19.3	17.7	12.1	7.1	6.3
102°	1.7	2.0	3.1	3.8	7.1	10.6	20.1	18.3	12.8	7.5	6.6
103°	1.7	2.1	3.3	4.3	7.5	11.1	21.1	19.1	13.2	8.1	7.1
104°	2.0	2.3	3.7	4.4	8.0	11.8	21.7	19.7	13.9	8.6	7.5
105°	2.2	2.5	4.0	4.8	8.5	12.6	22.5	20.5	14.5	9.0	8.1
106°	2.2	2.9	4.3	5.2	9.0	13.1	23.5	21.2	14.9	9.5	8.5
107°	2.5	3.1	4.6	5.6	9.4	13.9	24.3	22.1	15.5	9.9	9.0
108°	2.9	3.5	5.2	5.9	10.0	14.7	24.9	22.8	15.9	10.5	9.4
109°	3.1	3.8	5.4	6.3	10.4	15.3	25.6	23.5	16.6	11.1	10.1
110°	3.3	4.3	6.0	6.7	10.9	16.0	26.4	24.3	17.2	11.6	10.5
111°	3.6	4.7	6.3	7.1	11.4	16.7	27.0	24.9	17.9	12.2	10.9
112°	4.2	5.0	6.6	7.5	11.8	17.4	28.0	25.4	18.4	12.5	11.5
113°	4.5	5.4	7.1	7.9	12.4	17.8	28.3	25.9	18.9	13.3	12.1
114°	4.8	5.9	7.5	8.4	13.0	18.5	28.9	26.5	19.4	13.6	12.4
115°	5.2	6.3	7.8	9.0	13.6	19.2	29.6	27.0	20.0	14.3	13.0
116°	5.7	6.8	8.3	9.2	14.0	19.7	30.0	27.4	20.6	14.9	13.6
117°	6.3	7.2	8.7	9.8	14.6	20.4	30.4	28.0	21.2	15.4	13.9
118°	6.6	7.7	9.1	10.3	15.1	20.9	30.9	28.1	21.4	15.8	14.6
119°	7.3	8.2	9.5	10.7	15.6	21.2	31.3	28.5	22.0	16.4	15.1
120°	7.9	8.8	10.0	11.3	16.0	22.0	31.6	29.0	22.5	17.0	15.5
121°	8.3	9.4	10.4	11.7	16.6	22.5	31.9	29.3	22.9	17.5	16.1
122°	9.0	9.8	10.9	12.2	17.2	22.8	32.0	29.7	23.5	17.9	16.5
123°	9.4	10.5	11.4	12.5	17.8	23.5	32.3	30.0	23.8	18.5	17.0
124°	10.2	10.9	11.8	13.0	18.2	24.1	32.7	30.4	24.2	19.0	17.5
125°	10.9	11.6	12.3	13.6	18.8	24.5	33.0	30.7	24.7	19.4	18.2
126°	11.4	12.1	12.8	14.2	19.3	25.0	33.1	30.8	25.1	20.0	18.6
127°	12.0	12.5	13.2	14.7	19.7	25.4	33.3	31.1	25.4	20.4	19.2
128°	12.4	13.1	13.8	15.1	20.2	25.9	33.5	31.4	25.8	20.9	19.6
129°	13.2	13.5	14.3	15.5	20.6	26.3	33.6	31.6	26.2	21.3	20.1
130°	13.7	14.0	14.7	15.9	21.1	26.8	33.8	31.7	26.5	21.6	20.6
131°	14.1	14.3	15.1	16.5	21.5	27.3	33.8	32.0	26.9	22.3	20.9
132°	14.7	14.9	15.7	17.0	22.0	27.6	33.9	32.3	27.0	22.6	21.2
133°	15.1	15.5	16.0	17.6	22.4	28.0	34.1	32.4	27.3	23.1	21.7
134°	15.7	15.9	16.6	17.9	23.0	28.5	34.2	32.5	27.7	23.5	22.4



REPORT NUMBER: P1449847
 CATALOG NUMBER: TWC100_T4_60W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	16.1	16.4	17.0	18.5	23.3	28.9	34.4	32.6	28.1	23.9	22.8
136°	16.6	16.9	17.6	18.9	23.7	29.3	34.4	32.8	28.2	24.3	23.1
137°	17.0	17.3	18.0	19.4	24.0	29.7	34.3	33.0	28.5	24.7	23.5
138°	17.5	17.9	18.6	19.8	24.2	29.8	34.3	32.8	28.7	25.1	23.9
139°	17.9	18.2	18.9	20.5	24.7	30.0	34.4	33.0	28.9	25.5	24.2
140°	18.3	18.7	19.5	20.9	25.0	30.3	34.5	33.1	29.2	25.8	24.7
141°	18.8	19.3	19.9	21.1	25.3	30.4	34.3	33.1	29.5	26.2	25.0
142°	19.3	19.4	20.5	21.6	25.6	30.8	34.3	33.1	29.7	26.5	25.3
143°	19.6	20.1	21.1	22.0	26.0	30.9	34.3	33.1	29.8	26.8	25.5
144°	20.1	20.5	21.2	22.4	26.5	31.1	34.3	33.1	30.1	27.3	25.9
145°	20.8	21.2	21.9	22.8	26.5	31.1	34.2	33.1	30.4	27.4	26.2
146°	21.2	21.7	22.3	23.1	26.9	31.2	34.3	33.4	30.5	27.8	26.6
147°	21.7	22.0	22.8	23.5	27.2	31.4	34.2	33.2	30.8	28.2	27.1
148°	22.4	22.8	23.0	24.0	27.5	31.4	34.1	33.2	31.0	28.4	27.4
149°	22.9	23.0	23.5	24.4	27.8	31.5	34.3	33.5	31.1	28.6	27.5
150°	23.5	23.5	23.9	24.7	28.1	31.8	34.1	33.5	31.3	29.0	27.8
151°	23.9	24.1	24.3	25.1	28.4	31.8	34.2	33.5	31.5	29.3	28.1
152°	24.6	24.5	24.6	25.5	28.7	32.0	34.0	33.5	31.6	29.6	28.5
153°	24.8	24.9	24.8	25.8	28.8	32.0	33.9	33.5	31.9	29.9	28.7
154°	25.4	25.4	25.4	26.2	29.1	32.0	33.9	33.5	31.9	29.9	28.9
155°	25.8	25.5	25.8	26.6	29.3	32.2	33.9	33.5	32.1	30.3	29.1
156°	26.3	26.0	26.1	26.9	29.6	32.3	33.7	33.5	32.2	30.4	29.3
157°	26.5	26.2	26.4	27.2	29.7	32.4	33.5	33.4	32.1	30.6	29.7
158°	26.8	26.6	26.6	27.6	30.1	32.6	33.5	33.4	32.2	30.8	29.9
159°	27.1	26.8	27.0	27.9	30.3	32.6	33.5	33.3	32.3	31.1	30.1
160°	27.4	27.0	27.2	28.1	30.6	32.6	33.4	33.4	32.4	31.2	30.3
161°	27.7	27.4	27.5	28.5	30.7	32.7	33.2	33.1	32.5	31.4	30.4
162°	28.0	27.6	28.0	28.7	30.9	32.7	33.1	33.2	32.6	31.4	30.7
163°	28.1	27.8	28.1	29.1	31.1	32.8	33.1	33.2	32.5	31.6	30.8
164°	28.4	27.9	28.3	29.4	31.4	32.8	33.1	33.1	32.7	31.7	31.1
165°	28.7	28.5	28.8	29.6	31.6	33.1	32.9	33.1	32.7	31.9	31.2
166°	28.9	28.6	29.0	29.8	31.6	33.0	32.9	33.0	32.7	32.0	31.3
167°	29.1	29.1	29.3	30.1	31.8	33.1	32.8	33.1	32.7	32.0	31.5
168°	29.3	29.3	29.7	30.2	32.0	33.1	32.7	32.9	32.7	32.2	31.8
169°	29.6	29.6	29.9	30.6	32.2	33.1	32.8	32.9	32.7	32.3	31.8
170°	29.7	29.7	30.1	30.9	32.2	33.1	32.7	33.0	32.9	32.5	32.0
171°	30.0	30.0	30.4	31.2	32.3	33.1	33.0	32.9	32.7	32.6	32.1
172°	30.4	30.2	30.6	31.4	32.4	33.1	32.7	32.8	32.7	32.7	32.2
173°	30.8	30.4	30.8	31.7	32.5	33.0	33.0	33.1	32.7	32.8	32.3
174°	31.0	30.7	31.1	31.9	32.6	33.1	32.9	32.9	32.7	33.0	32.6
175°	31.3	30.9	31.6	32.0	32.9	33.1	32.8	32.6	32.7	32.9	32.7
176°	31.6	31.3	31.5	32.3	32.9	33.3	32.8	32.7	32.7	32.8	32.8
177°	31.8	31.5	31.9	32.5	32.9	33.2	32.7	32.5	32.6	32.9	32.9
178°	32.0	31.8	32.0	32.5	33.1	33.2	32.7	32.3	32.7	33.0	32.9
179°	32.2	32.0	32.2	32.7	33.1	33.1	32.7	32.4	32.6	33.1	32.9



REPORT NUMBER: P1449847
CATALOG NUMBER: TWC100_T4_60W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6



REPORT NUMBER: P1449847
CATALOG NUMBER: TWC100_T4_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	3146.1	3146.1
1°	3162.1	3169.8
2°	3174.9	3186.3
3°	3188.6	3202.0
4°	3200.6	3217.9
5°	3212.5	3232.2
6°	3225.7	3247.7
7°	3238.0	3265.6
8°	3250.7	3286.3
9°	3263.5	3304.1
10°	3274.5	3320.6
11°	3285.7	3337.4
12°	3300.3	3356.5
13°	3308.1	3369.9
14°	3316.7	3385.3
15°	3318.4	3395.6
16°	3326.3	3409.7
17°	3335.0	3424.6
18°	3339.1	3443.0
19°	3346.3	3453.6
20°	3348.9	3461.8
21°	3347.5	3468.6
22°	3344.0	3470.7
23°	3340.3	3476.1
24°	3335.8	3482.0
25°	3332.0	3489.3
26°	3325.9	3493.9
27°	3320.6	3500.4
28°	3315.6	3505.9
29°	3308.4	3516.8
30°	3307.8	3523.8
31°	3302.3	3530.4
32°	3297.9	3536.7
33°	3293.8	3540.2
34°	3285.8	3546.5
35°	3283.7	3551.7
36°	3281.8	3555.9
37°	3280.6	3564.1
38°	3273.6	3567.0
39°	3268.2	3568.9
40°	3260.0	3568.0
41°	3250.4	3566.0
42°	3240.5	3565.0
43°	3231.0	3568.4
44°	3220.9	3579.0



REPORT NUMBER: P1449847
CATALOG NUMBER: TWC100_T4_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3210.0	3574.3
46°	3206.5	3525.7
47°	3200.6	3507.3
48°	3158.0	3516.5
49°	3110.9	3508.5
50°	3103.7	3490.5
51°	3093.1	3470.2
52°	3068.4	3444.2
53°	3029.0	3432.6
54°	2996.9	3426.4
55°	2969.4	3424.3
56°	2948.3	3434.9
57°	2933.3	3455.0
58°	2925.8	3488.1
59°	2919.7	3531.3
60°	2930.0	3578.8
61°	2965.4	3595.8
62°	3016.7	3556.1
63°	3065.1	3413.1
64°	3058.1	3233.7
65°	2920.9	3061.9
66°	2719.8	2898.4
67°	2535.7	2583.7
68°	2283.0	2250.7
69°	1947.1	2084.7
70°	1760.2	1983.2
71°	1672.3	1890.1
72°	1585.8	1792.3
73°	1510.0	1685.6
74°	1432.9	1562.0
75°	1349.9	1436.4
76°	1241.8	1310.8
77°	1148.9	1178.0
78°	1069.2	1055.0
79°	993.4	928.3
80°	906.0	803.5
81°	813.5	667.4
82°	683.8	547.1
83°	570.0	435.4
84°	484.3	337.3
85°	369.7	237.7
86°	278.3	160.9
87°	153.4	95.3
88°	9.0	32.0
89°	1.4	2.6



REPORT NUMBER: P1449847
CATALOG NUMBER: TWC100_T4_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	1.6	1.0
91°	1.7	0.9
92°	1.7	1.0
93°	2.1	1.2
94°	2.1	1.2
95°	2.4	1.2
96°	2.8	1.1
97°	2.9	1.4
98°	3.3	1.3
99°	3.6	1.4
100°	4.0	1.4
101°	4.4	1.6
102°	4.8	1.7
103°	5.3	1.7
104°	5.7	2.0
105°	6.1	2.2
106°	6.6	2.2
107°	7.2	2.5
108°	7.6	2.9
109°	8.1	3.1
110°	8.7	3.3
111°	9.3	3.6
112°	9.8	4.2
113°	10.5	4.5
114°	11.0	4.8
115°	11.7	5.2
116°	12.3	5.7
117°	12.9	6.3
118°	13.4	6.6
119°	14.0	7.3
120°	14.7	7.9
121°	15.4	8.3
122°	15.9	9.0
123°	16.5	9.4
124°	17.1	10.2
125°	17.7	10.9
126°	18.2	11.4
127°	18.6	12.0
128°	19.2	12.4
129°	19.6	13.2
130°	20.1	13.7
131°	20.6	14.1
132°	21.2	14.7
133°	21.3	15.1
134°	21.9	15.7



REPORT NUMBER: P1449847
CATALOG NUMBER: TWC100_T4_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	22.4	16.1
136°	22.7	16.6
137°	23.0	17.0
138°	23.5	17.5
139°	23.9	17.9
140°	24.4	18.3
141°	24.6	18.8
142°	25.0	19.3
143°	25.3	19.6
144°	25.8	20.1
145°	26.1	20.8
146°	26.3	21.2
147°	26.5	21.7
148°	26.8	22.4
149°	27.0	22.9
150°	27.4	23.5
151°	27.6	23.9
152°	27.9	24.6
153°	28.1	24.8
154°	28.2	25.4
155°	28.5	25.8
156°	28.6	26.3
157°	28.9	26.5
158°	29.1	26.8
159°	29.3	27.1
160°	29.5	27.4
161°	29.5	27.7
162°	29.8	28.0
163°	30.0	28.1
164°	30.2	28.4
165°	30.4	28.7
166°	30.6	28.9
167°	30.7	29.1
168°	30.9	29.3
169°	31.2	29.6
170°	31.2	29.7
171°	31.6	30.0
172°	31.6	30.4
173°	31.9	30.8
174°	32.2	31.0
175°	32.3	31.3
176°	32.4	31.6
177°	32.7	31.8
178°	33.0	32.0
179°	33.1	32.2

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

Scaled Data Report



REPORT NUMBER: P1449847
CATALOG NUMBER: TWC100_T4_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	32.6	32.6

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

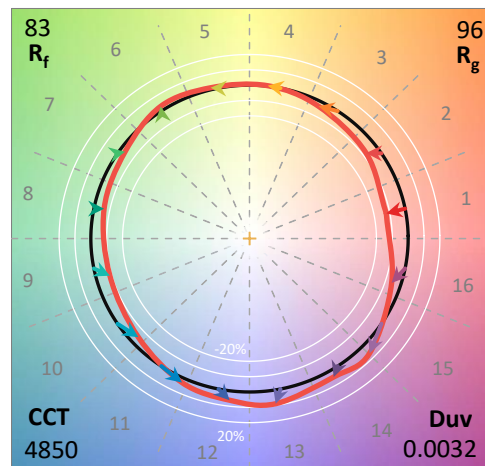
Test Information

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



Test Conditions

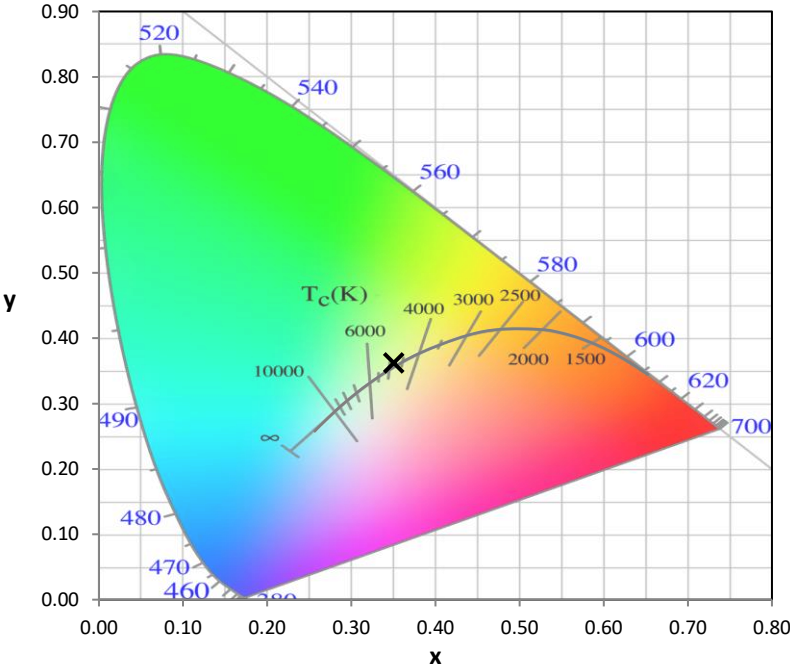
Stabilization Time: 25M
 Operation Time: 1H 25M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

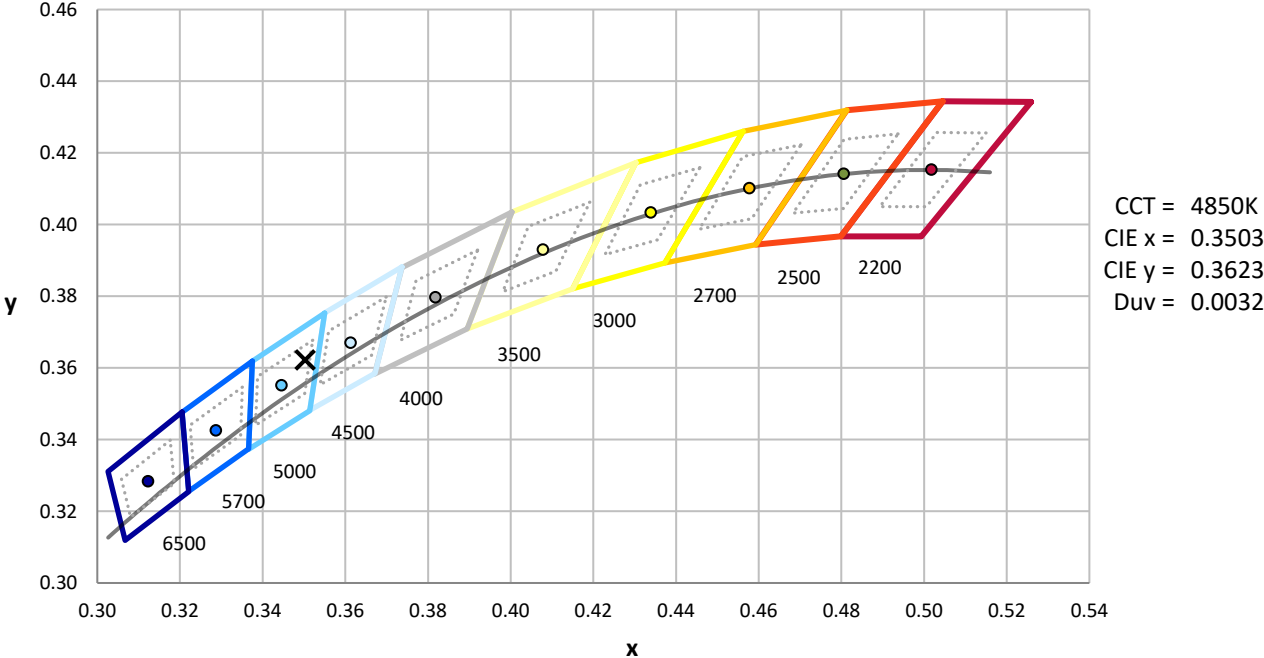
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



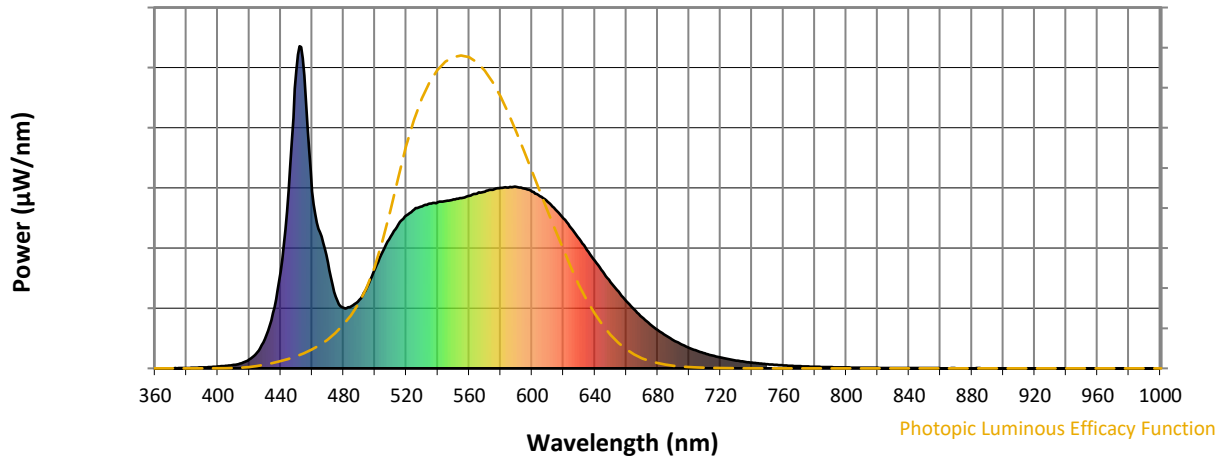
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

Photopic Flux vs. Wavelength

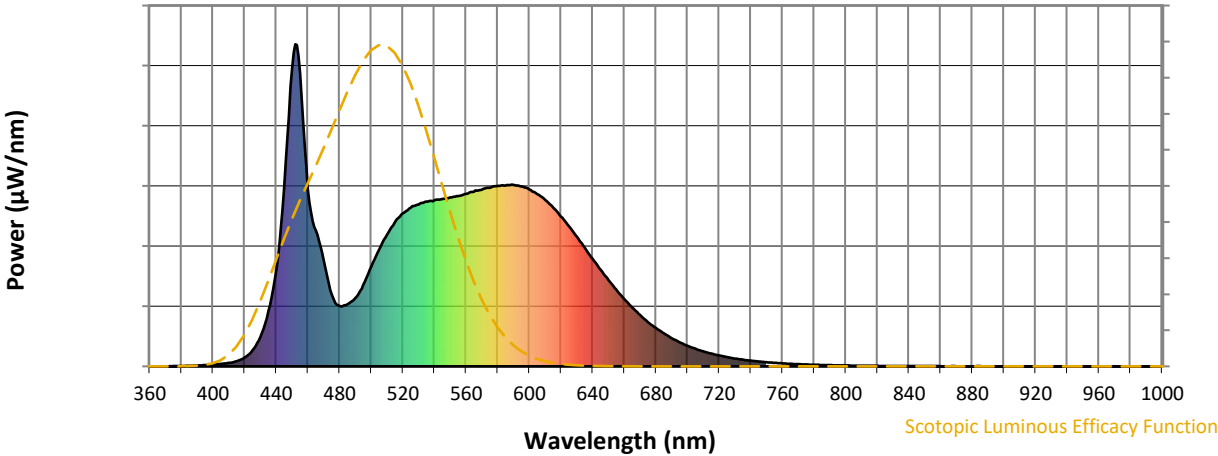


Photopic Lumens: NR

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



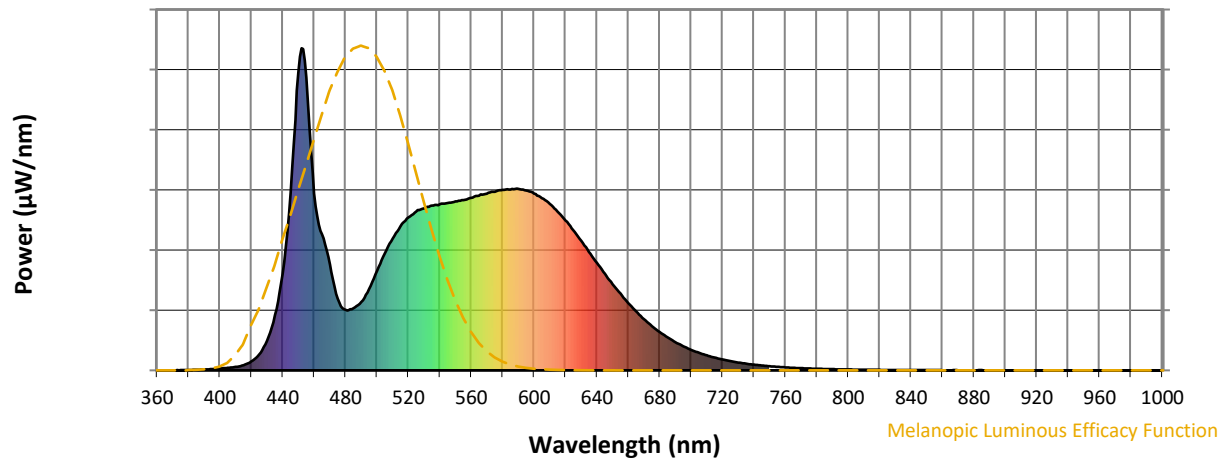
Scotopic Lumens: NR

S/P: 1.9

λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/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			

REPORT NUMBER: SP1-2601-659-3

Melanopic Flux vs. Wavelength



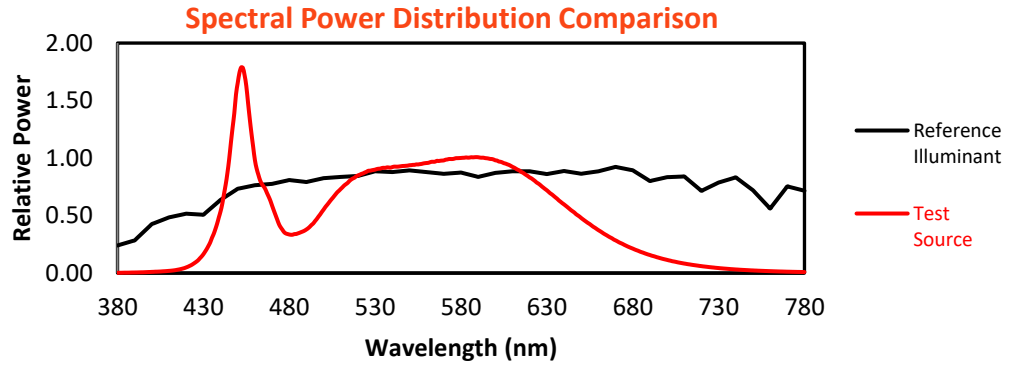
Melanopic Lumens: NR

M/P: 4

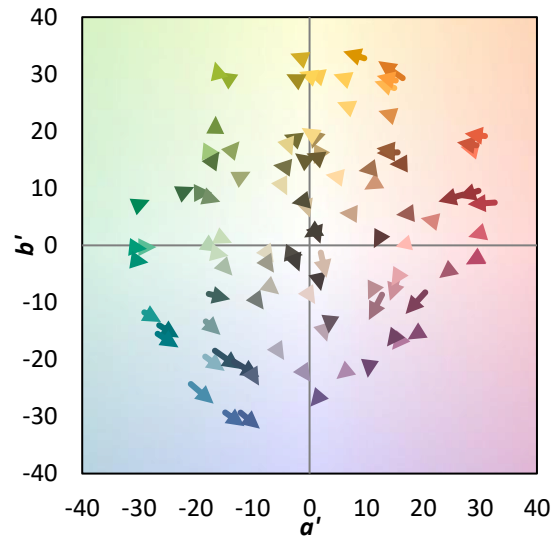
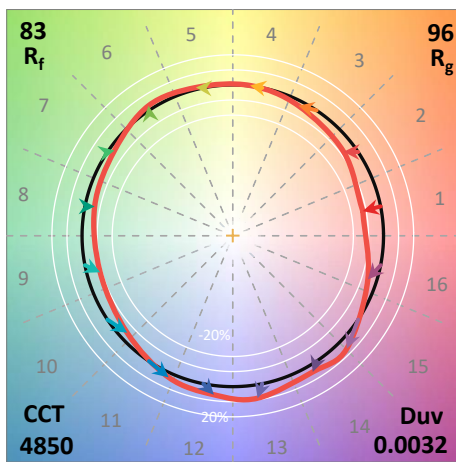
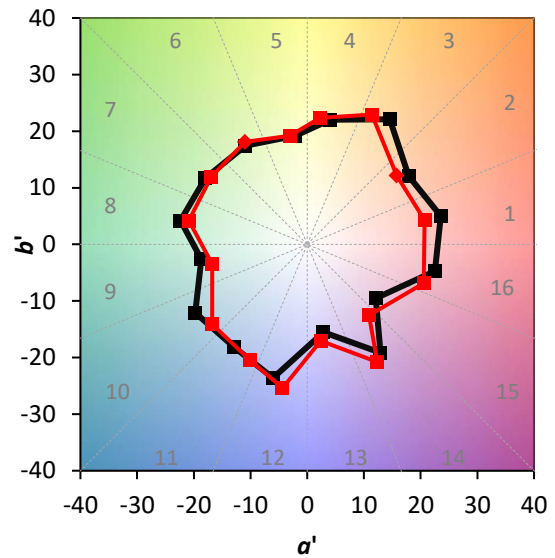
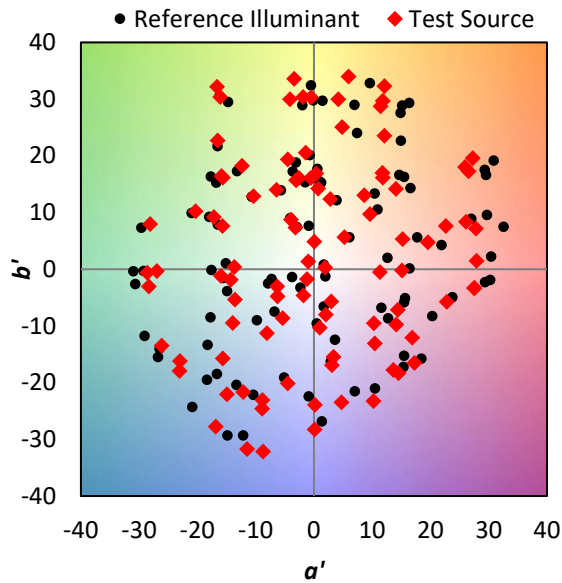
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	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			

Summary

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

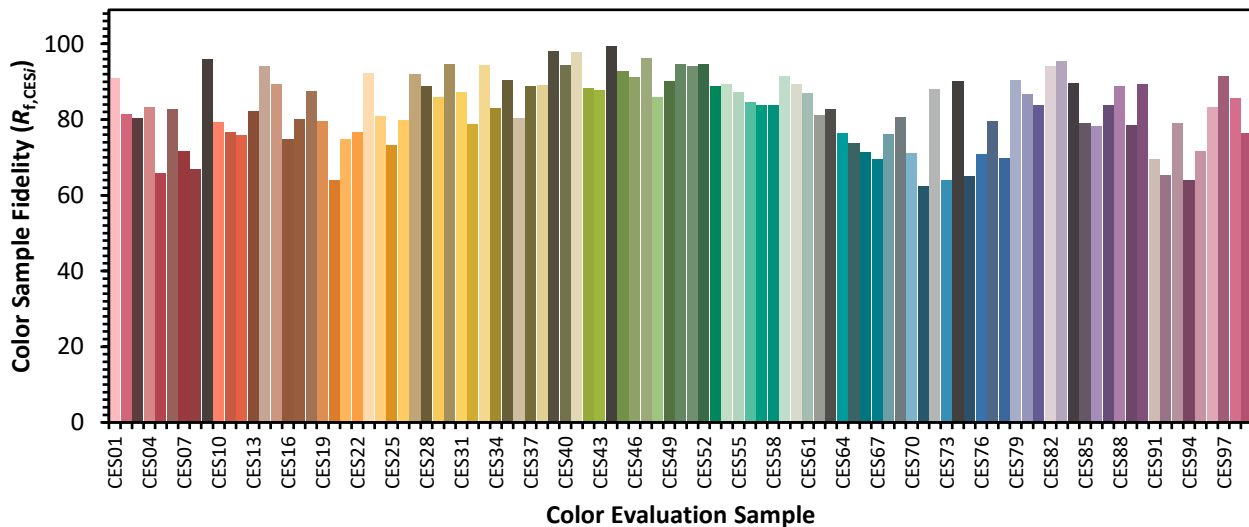


Color Vector Graphics

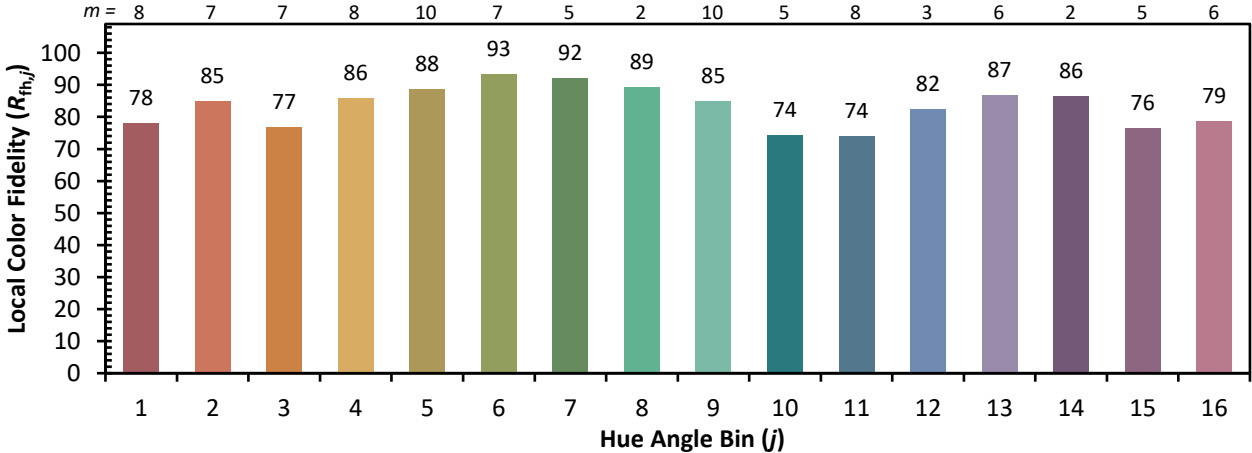
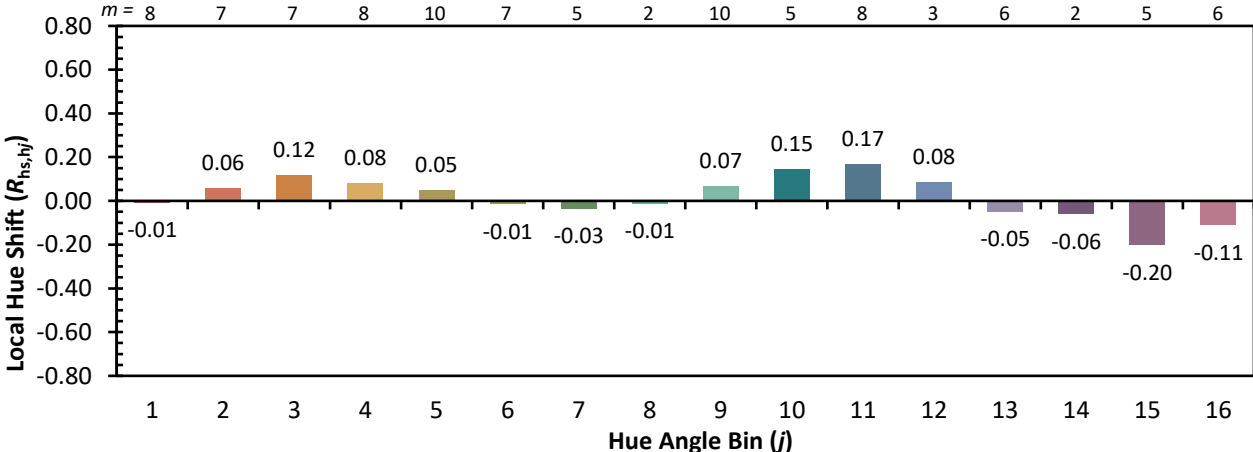
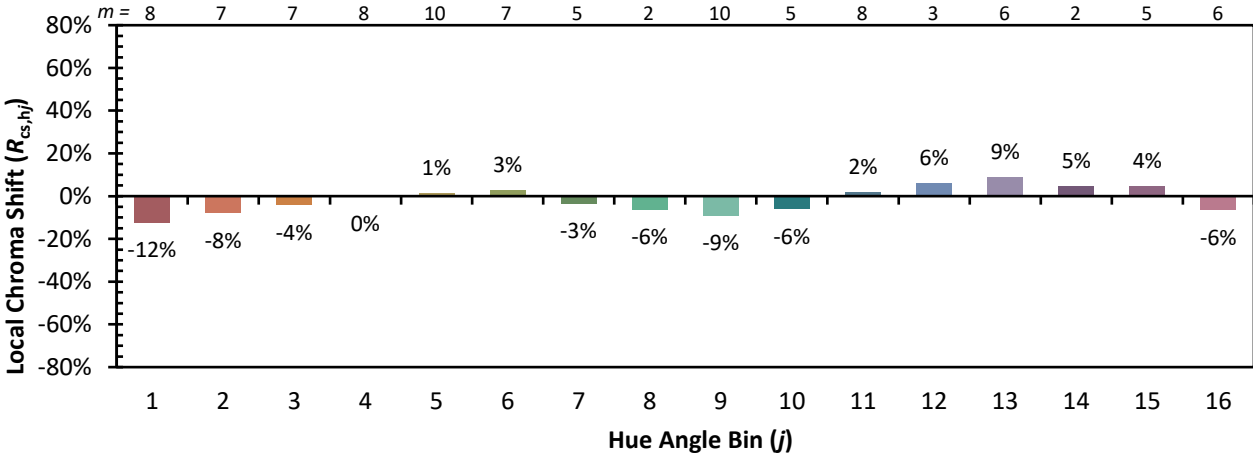


Individual Sample Fidelity Index ($R_{f,i}$)

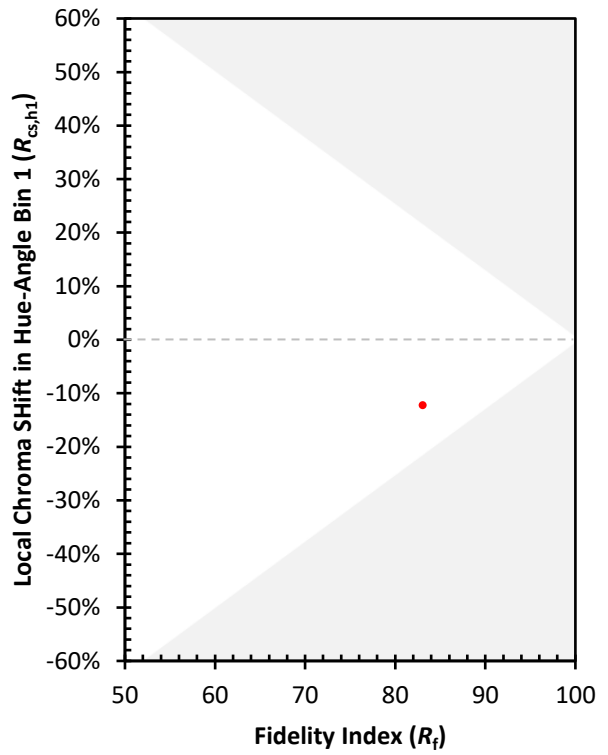
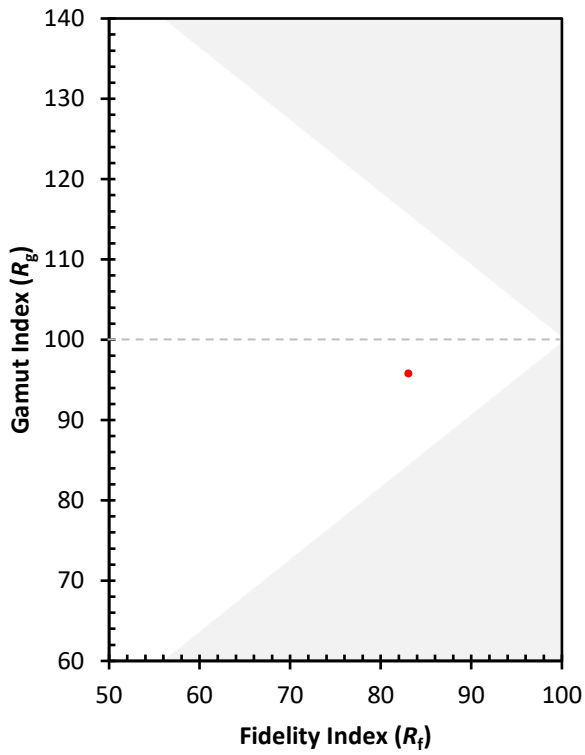
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82 = 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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)