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: P1449845

Luminaire Tested: **TWC100_T4_60W_3000K**

Issue Date: 5/19/2026

Report Generated By 670246072

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449845
	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_3000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 60W 3000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9426 lumens
Efficiency:	N/A
Efficacy:	160.0 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):	58.9
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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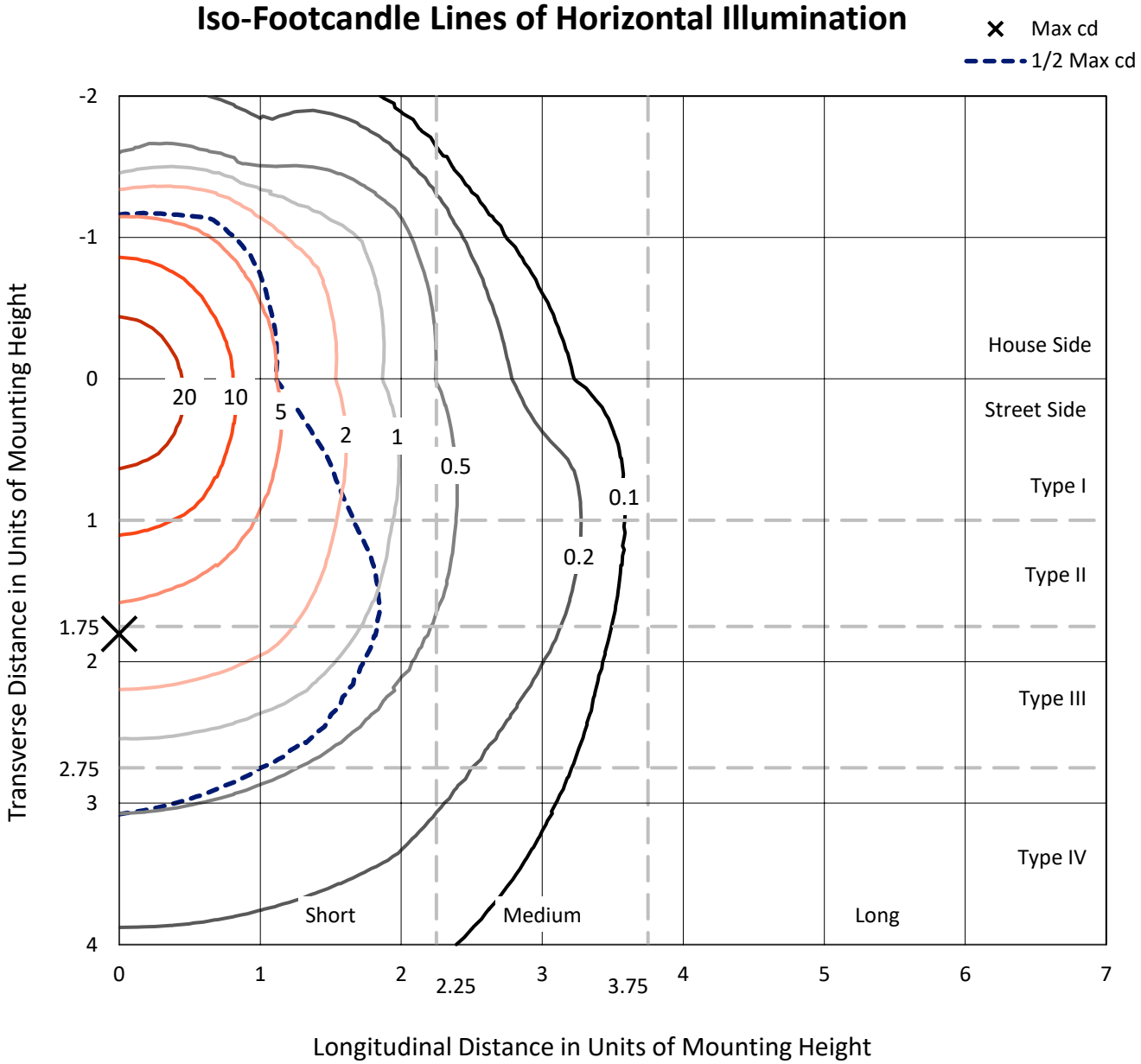
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 30 fc
Type IV - Short - N/A

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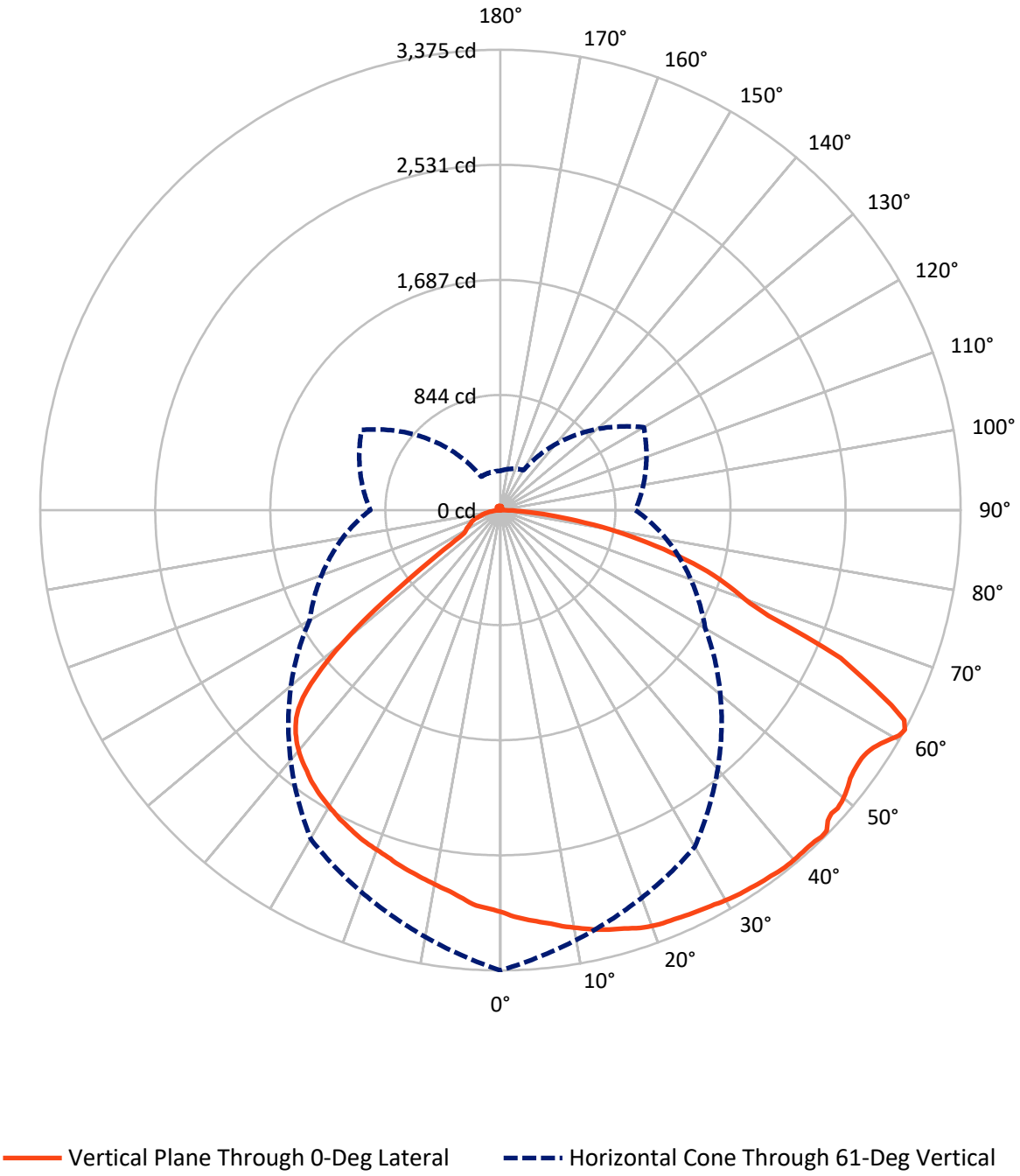
Luminous Intensity Polar Plot



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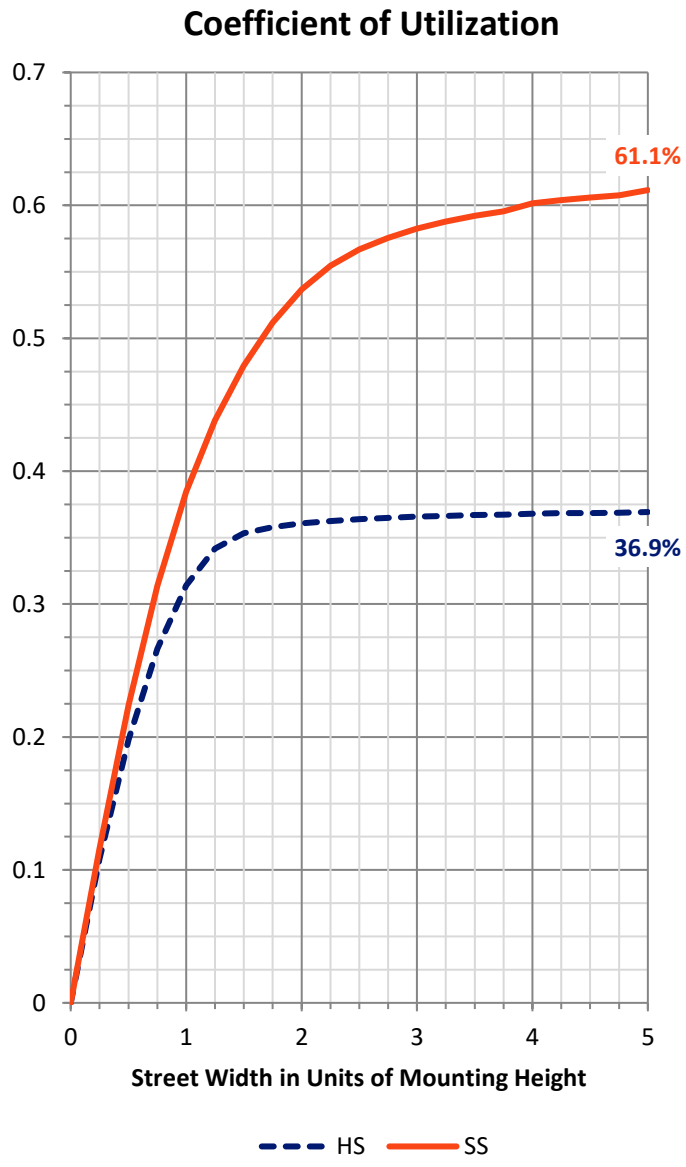
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3505.9	62.6	3568.5
	% Fixture	37.2	0.7	37.9
Street Side	Lumens	5818.3	39.2	5857.5
	% Fixture	61.7	0.4	62.1
Total	Lumens	9324.2	101.8	9426.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	3.0
10°-20°	816.2	8.7
20°-30°	1273.8	13.5
30°-40°	1608.6	17.1
40°-50°	1773.4	18.8
50°-60°	1602.1	17.0
60°-70°	1210.3	12.8
70°-80°	612.5	6.5
80°-90°	146.7	1.6
90°-100°	5.5	0.1
100°-110°	9.6	0.1
110°-120°	13.6	0.1
120°-130°	16.4	0.2
130°-140°	17.1	0.2
140°-150°	15.8	0.2
150°-160°	12.7	0.1
160°-170°	8.2	0.1
170°-180°	2.9	0.0
0°-90°	9324.2	98.9
0°-180°	9426.0	100.0



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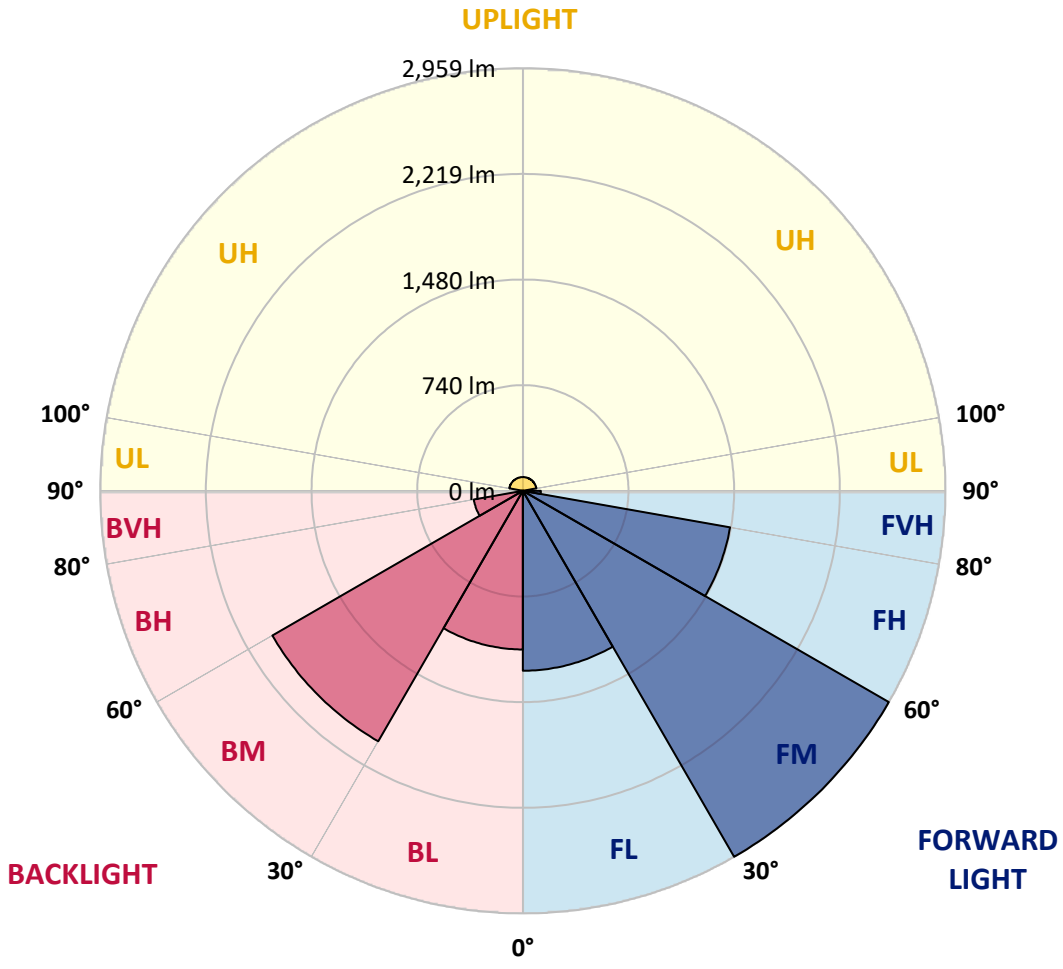
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1259.7	13.4			
FM	(30°-60°)	2959.1	31.4			
FH	(60°-80°)	1473.7	15.6			G1/1800
FVH	(80°-90°)	125.8	1.3			G2/225
BL	(0°-30°)	1110.9	11.8	B3/2500		
BM	(30°-60°)	2025.1	21.5	B2/2500		
BH	(60°-80°)	349.1	3.7	B1/500		G1/500
BVH	(80°-90°)	20.8	0.2			G1/100
UL	(90°-100°)	5.5	0.1		U1/10	
UH	(100°-180°)	96.3	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°	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5
1°	2974.8	2970.3	2961.9	2952.1	2948.8	2936.9	2937.6	2936.8	2945.4	2949.9	2962.5
2°	2990.2	2983.3	2966.6	2950.5	2935.6	2923.8	2924.3	2924.0	2936.5	2951.4	2963.8
3°	3005.0	2995.3	2972.9	2950.1	2926.5	2914.3	2914.6	2912.6	2921.1	2947.6	2968.0
4°	3019.9	3007.9	2977.6	2946.0	2917.1	2903.6	2905.2	2905.3	2912.1	2942.0	2973.1
5°	3033.4	3017.7	2981.7	2942.2	2906.4	2893.8	2885.9	2892.9	2901.7	2936.0	2974.4
6°	3047.9	3028.7	2987.5	2936.9	2895.9	2880.7	2860.4	2872.7	2891.7	2923.2	2981.5
7°	3064.7	3041.0	2990.2	2929.8	2886.7	2856.1	2840.7	2845.2	2881.2	2915.0	2982.8
8°	3084.1	3055.5	2992.4	2921.4	2875.5	2833.1	2820.9	2826.1	2868.6	2904.8	2983.5
9°	3100.8	3068.8	2994.0	2907.6	2862.8	2812.2	2807.1	2810.3	2854.3	2894.4	2983.8
10°	3116.2	3082.0	2995.3	2897.9	2848.8	2795.9	2792.6	2795.3	2834.1	2883.9	2982.8
11°	3132.1	3093.0	2993.8	2885.8	2832.1	2779.0	2778.1	2775.6	2813.1	2870.7	2979.9
12°	3149.9	3106.6	2990.8	2872.2	2808.2	2764.0	2764.2	2760.4	2791.8	2856.3	2977.3
13°	3162.5	3115.2	2988.9	2862.1	2786.8	2749.1	2751.7	2745.4	2769.3	2838.2	2975.6
14°	3177.0	3122.4	2987.4	2846.2	2763.6	2734.1	2737.5	2734.3	2743.3	2821.5	2968.3
15°	3186.6	3128.2	2983.7	2830.3	2740.7	2719.4	2725.0	2718.9	2721.1	2804.3	2962.8
16°	3199.9	3137.2	2982.2	2807.3	2718.6	2704.1	2711.3	2702.6	2698.2	2785.6	2955.8
17°	3213.9	3145.5	2977.3	2789.2	2695.7	2682.9	2699.1	2686.3	2676.5	2762.7	2951.1
18°	3231.2	3152.6	2970.3	2770.3	2671.9	2666.6	2681.0	2665.3	2655.9	2741.7	2942.5
19°	3241.1	3162.2	2957.6	2750.2	2649.4	2649.4	2668.6	2649.1	2633.3	2720.2	2932.2
20°	3248.8	3166.7	2947.1	2727.6	2622.1	2633.8	2655.5	2633.7	2610.9	2698.6	2913.4
21°	3255.2	3167.5	2934.9	2704.8	2597.7	2619.5	2645.0	2618.4	2580.6	2676.1	2898.3
22°	3257.2	3163.6	2921.1	2681.8	2573.6	2603.8	2635.0	2603.0	2557.8	2651.7	2881.6
23°	3262.2	3160.4	2904.8	2656.0	2546.8	2587.6	2622.8	2587.6	2533.5	2627.3	2864.9
24°	3267.7	3157.8	2889.0	2630.8	2522.4	2567.7	2609.6	2572.4	2509.3	2595.5	2848.8
25°	3274.6	3154.8	2871.8	2603.6	2496.9	2552.3	2594.7	2556.6	2483.6	2568.4	2830.4
26°	3279.0	3152.9	2855.2	2576.7	2471.6	2536.8	2580.7	2539.2	2457.7	2539.7	2809.8
27°	3285.0	3150.8	2836.5	2542.4	2445.0	2520.6	2565.4	2521.8	2432.9	2508.6	2789.8
28°	3290.2	3146.6	2815.6	2511.7	2419.1	2500.6	2552.6	2502.9	2403.5	2476.7	2765.0
29°	3300.4	3142.7	2794.0	2479.6	2392.2	2480.4	2535.2	2480.4	2376.9	2443.7	2742.1
30°	3307.0	3139.2	2765.7	2447.4	2364.1	2461.0	2519.3	2461.3	2348.8	2410.2	2717.7
31°	3313.2	3134.4	2743.0	2414.1	2330.2	2442.2	2503.1	2443.0	2320.7	2373.3	2687.8
32°	3319.1	3131.2	2719.7	2381.6	2301.4	2423.8	2485.5	2424.1	2287.4	2338.1	2663.1
33°	3322.4	3123.4	2696.3	2348.5	2272.7	2405.0	2469.4	2405.2	2259.0	2302.7	2636.9
34°	3328.3	3123.1	2671.8	2314.5	2244.0	2383.4	2450.3	2384.4	2229.7	2260.8	2609.4
35°	3333.1	3121.0	2645.3	2274.2	2213.1	2362.5	2430.8	2363.4	2199.7	2222.7	2582.2
36°	3337.1	3120.7	2617.1	2235.8	2183.7	2335.6	2410.2	2340.4	2167.6	2182.2	2551.1
37°	3344.8	3123.1	2588.0	2195.4	2152.0	2312.8	2383.7	2312.8	2134.9	2140.1	2520.3
38°	3347.5	3118.8	2552.2	2153.8	2118.2	2289.5	2362.3	2288.8	2101.3	2095.5	2489.0
39°	3349.4	3114.6	2520.9	2105.1	2079.0	2265.6	2339.5	2264.8	2067.7	2052.4	2449.0
40°	3348.5	3108.0	2489.0	2060.4	2044.2	2241.8	2314.8	2238.4	2030.1	2007.6	2415.2
41°	3346.6	3098.2	2457.7	2015.6	2010.9	2216.8	2286.8	2212.7	1996.4	1962.5	2380.6
42°	3345.6	3090.2	2422.0	1968.8	1974.5	2191.0	2256.1	2185.7	1962.7	1918.8	2345.3
43°	3348.8	3081.9	2389.8	1924.2	1940.4	2164.5	2222.3	2158.7	1928.8	1867.9	2309.3
44°	3358.8	3073.7	2357.7	1877.4	1906.3	2132.3	2181.2	2127.0	1892.5	1824.1	2276.1

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Scaled Data Report

REPORT NUMBER: P1449845
CATALOG NUMBER: TWC100_T4_60W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3354.3	3067.7	2327.0	1830.5	1871.7	2103.8	2137.4	2094.7	1857.3	1778.5	2241.3
46°	3308.7	3064.5	2295.8	1776.2	1835.4	2072.9	2076.4	2058.2	1823.3	1728.3	2209.0
47°	3291.5	3063.9	2265.7	1728.4	1800.0	2033.6	1996.7	2018.3	1784.9	1681.1	2174.1
48°	3300.1	3042.3	2235.1	1680.3	1764.0	1994.1	1883.2	1969.7	1750.3	1633.8	2142.2
49°	3292.6	2986.6	2204.6	1632.3	1728.7	1951.8	1750.3	1920.2	1714.9	1587.9	2109.8
50°	3275.8	2971.5	2167.3	1581.4	1692.1	1905.2	1588.9	1854.1	1679.4	1535.9	2072.6
51°	3256.6	2969.9	2136.3	1532.4	1649.8	1839.9	1393.9	1768.7	1642.6	1485.4	2039.2
52°	3232.2	2944.0	2103.1	1483.7	1613.7	1759.2	1179.9	1654.6	1600.6	1437.0	2005.5
53°	3221.4	2915.1	2067.4	1432.9	1577.9	1659.3	937.3	1521.6	1563.6	1387.0	1968.6
54°	3215.6	2885.1	2032.5	1376.2	1539.1	1533.7	737.0	1358.7	1525.5	1330.2	1928.9
55°	3213.6	2860.4	2001.7	1325.5	1501.2	1360.1	571.6	1167.2	1485.3	1279.3	1894.5
56°	3223.5	2844.1	1971.2	1273.4	1462.2	1174.6	440.4	935.3	1441.3	1227.4	1861.3
57°	3242.4	2830.5	1940.2	1213.9	1415.8	969.7	357.2	732.5	1396.9	1174.6	1829.1
58°	3273.5	2824.5	1898.6	1158.0	1372.2	744.3	313.8	560.0	1348.6	1116.8	1788.3
59°	3314.0	2820.7	1828.7	1103.3	1324.9	565.8	301.4	428.9	1291.5	1060.8	1723.9
60°	3358.6	2825.5	1773.7	1048.3	1274.5	430.7	293.8	331.1	1235.3	1005.9	1660.8
61°	3374.6	2850.8	1733.6	989.5	1214.2	338.1	287.3	283.0	1174.8	953.9	1615.2
62°	3337.3	2894.3	1679.7	938.0	1153.6	278.6	279.0	267.9	1112.7	897.4	1559.4
63°	3203.1	2949.1	1612.1	889.3	1090.2	262.4	268.6	258.9	1037.0	849.5	1490.1
64°	3034.7	2970.3	1537.0	839.9	1025.2	253.3	258.6	251.1	950.1	803.1	1416.0
65°	2873.5	2894.2	1468.8	785.2	944.9	244.9	250.1	241.4	844.1	756.6	1342.4
66°	2720.0	2720.8	1399.2	736.3	853.0	234.6	241.1	230.8	712.6	705.3	1262.7
67°	2424.7	2515.8	1322.3	688.5	741.0	224.1	233.3	219.1	540.8	657.4	1190.9
68°	2112.2	2332.5	1263.7	634.2	582.8	213.3	227.2	208.7	389.3	607.7	1124.6
69°	1956.4	2031.7	1216.3	583.0	424.4	201.7	220.8	198.4	272.8	552.6	1061.5
70°	1861.2	1772.7	1184.0	530.2	296.3	191.1	212.4	189.2	203.9	501.7	1016.2
71°	1773.8	1651.8	1188.7	472.4	210.0	182.4	201.4	181.6	177.0	451.0	994.8
72°	1682.0	1580.0	1376.8	421.3	179.3	174.9	186.1	172.8	166.5	401.6	1078.5
73°	1581.9	1508.3	1602.8	373.1	166.9	165.0	171.7	162.3	155.4	348.9	1407.2
74°	1465.9	1432.8	1240.7	328.0	155.2	154.2	157.7	152.3	143.5	303.7	1190.5
75°	1348.0	1357.2	789.9	281.5	142.3	144.0	144.5	138.9	133.8	261.4	719.7
76°	1230.1	1271.0	657.4	241.8	131.6	131.0	135.8	126.0	124.0	222.8	562.6
77°	1105.6	1177.1	583.1	206.1	121.1	118.4	127.9	112.1	114.3	188.6	490.9
78°	990.1	1086.7	580.2	172.7	110.9	104.1	119.9	99.0	104.9	155.7	475.7
79°	871.2	1013.2	576.0	140.8	99.9	91.8	104.9	90.0	95.7	128.3	506.8
80°	754.1	938.0	448.0	115.2	90.9	82.4	93.2	81.8	87.1	103.6	371.7
81°	626.3	843.2	301.4	93.2	82.3	74.1	83.0	73.4	76.5	81.7	242.5
82°	513.5	728.4	251.9	73.1	70.3	66.0	68.8	63.6	65.6	61.2	201.8
83°	408.6	606.6	222.2	53.9	59.3	55.9	53.0	54.9	53.6	47.0	180.8
84°	316.5	523.6	194.7	40.3	47.9	46.7	39.7	46.0	43.5	36.0	159.2
85°	223.1	443.4	166.1	29.6	37.9	38.0	32.1	34.6	33.6	26.5	135.9
86°	151.0	319.6	138.4	20.6	27.8	27.2	20.6	24.6	26.6	18.0	108.3
87°	89.4	218.3	98.4	12.6	20.2	16.6	13.2	16.0	18.6	11.8	75.4
88°	30.0	83.7	39.6	6.5	12.1	9.2	10.0	10.6	11.4	6.8	24.2
89°	2.5	1.7	2.3	2.7	5.3	5.2	8.6	8.6	6.3	3.6	2.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.9	0.8	1.0	1.2	2.5	3.7	8.9	8.6	5.8	2.9	2.5
91°	0.8	0.8	1.1	1.5	2.7	3.9	9.8	9.5	6.2	3.2	2.8
92°	1.0	1.0	1.1	1.3	3.1	4.4	10.7	10.0	6.7	3.5	3.0
93°	1.1	1.0	1.3	1.6	3.3	4.9	11.5	10.8	7.2	3.7	3.3
94°	1.1	1.0	1.4	1.7	3.6	5.4	12.2	11.5	7.7	3.9	3.4
95°	1.1	1.1	1.6	1.9	3.9	6.0	13.1	12.2	8.1	4.3	3.8
96°	1.0	1.0	1.6	2.1	4.2	6.4	14.1	13.0	8.6	4.8	4.1
97°	1.3	1.2	1.9	2.4	4.6	7.1	15.0	13.6	9.2	5.1	4.5
98°	1.3	1.3	2.0	2.5	5.1	7.7	15.6	14.4	9.7	5.4	4.8
99°	1.3	1.4	2.3	2.8	5.4	8.3	16.4	15.1	10.1	5.8	5.2
100°	1.3	1.5	2.5	2.9	5.9	8.7	17.3	15.8	10.9	6.3	5.5
101°	1.5	1.7	2.8	3.3	6.1	9.3	18.2	16.6	11.4	6.7	5.9
102°	1.6	1.9	2.9	3.6	6.6	10.0	18.9	17.2	12.0	7.1	6.2
103°	1.6	2.0	3.1	4.0	7.0	10.4	19.8	17.9	12.4	7.6	6.7
104°	1.9	2.2	3.5	4.2	7.5	11.1	20.4	18.5	13.0	8.0	7.1
105°	2.1	2.3	3.8	4.5	8.0	11.8	21.1	19.3	13.6	8.4	7.6
106°	2.1	2.8	4.0	4.8	8.4	12.3	22.0	19.9	14.0	8.9	8.0
107°	2.3	2.9	4.3	5.2	8.8	13.0	22.8	20.8	14.6	9.3	8.4
108°	2.7	3.3	4.8	5.6	9.4	13.8	23.4	21.4	15.0	9.8	8.8
109°	2.9	3.6	5.1	6.0	9.7	14.4	24.0	22.0	15.6	10.4	9.5
110°	3.1	4.0	5.7	6.3	10.2	15.0	24.8	22.8	16.1	10.9	9.9
111°	3.4	4.4	6.0	6.7	10.7	15.7	25.4	23.4	16.8	11.5	10.3
112°	3.9	4.7	6.2	7.1	11.1	16.3	26.3	23.8	17.3	11.8	10.8
113°	4.2	5.1	6.6	7.4	11.6	16.7	26.6	24.3	17.7	12.5	11.4
114°	4.5	5.6	7.0	7.9	12.2	17.3	27.1	24.9	18.2	12.8	11.7
115°	4.8	6.0	7.3	8.4	12.7	18.0	27.8	25.3	18.7	13.4	12.2
116°	5.4	6.4	7.8	8.6	13.2	18.5	28.2	25.7	19.3	14.0	12.7
117°	5.9	6.8	8.2	9.2	13.7	19.1	28.6	26.3	19.9	14.4	13.0
118°	6.2	7.2	8.6	9.7	14.1	19.6	29.0	26.4	20.1	14.8	13.7
119°	6.8	7.7	8.9	10.0	14.7	19.9	29.4	26.7	20.7	15.4	14.1
120°	7.4	8.3	9.4	10.6	15.0	20.6	29.7	27.2	21.1	15.9	14.6
121°	7.8	8.9	9.7	11.0	15.6	21.1	29.9	27.5	21.5	16.4	15.1
122°	8.4	9.2	10.2	11.5	16.1	21.4	30.1	27.9	22.0	16.8	15.5
123°	8.9	9.8	10.7	11.8	16.7	22.1	30.4	28.2	22.3	17.3	16.0
124°	9.6	10.3	11.1	12.2	17.1	22.6	30.7	28.5	22.7	17.9	16.4
125°	10.2	10.9	11.5	12.8	17.6	23.0	31.0	28.8	23.1	18.2	17.0
126°	10.7	11.4	12.0	13.3	18.1	23.4	31.1	28.9	23.5	18.7	17.5
127°	11.2	11.8	12.4	13.8	18.5	23.9	31.3	29.2	23.9	19.1	18.0
128°	11.6	12.3	12.9	14.1	19.0	24.3	31.4	29.5	24.3	19.6	18.4
129°	12.3	12.6	13.4	14.6	19.3	24.7	31.5	29.6	24.6	20.0	18.9
130°	12.9	13.1	13.8	15.0	19.8	25.1	31.7	29.8	24.9	20.3	19.3
131°	13.2	13.5	14.2	15.5	20.2	25.6	31.7	30.1	25.2	20.9	19.6
132°	13.8	14.0	14.7	15.9	20.6	25.9	31.8	30.3	25.4	21.2	19.9
133°	14.2	14.5	15.0	16.5	21.1	26.3	32.0	30.4	25.6	21.7	20.4
134°	14.7	15.0	15.5	16.8	21.6	26.8	32.1	30.5	26.0	22.1	21.0

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

Scaled Data Report

REPORT NUMBER: P1449845
CATALOG NUMBER: TWC100_T4_60W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	15.1	15.4	16.0	17.3	21.9	27.2	32.3	30.6	26.3	22.5	21.4
136°	15.5	15.8	16.5	17.7	22.2	27.5	32.3	30.8	26.5	22.8	21.7
137°	16.0	16.2	16.9	18.2	22.5	27.8	32.2	31.0	26.8	23.1	22.1
138°	16.4	16.8	17.4	18.6	22.7	28.0	32.2	30.8	26.9	23.6	22.5
139°	16.8	17.1	17.8	19.2	23.1	28.2	32.3	31.0	27.2	24.0	22.7
140°	17.2	17.6	18.3	19.6	23.4	28.4	32.4	31.1	27.4	24.3	23.1
141°	17.6	18.1	18.7	19.8	23.7	28.6	32.1	31.1	27.7	24.6	23.4
142°	18.1	18.2	19.3	20.2	24.0	28.9	32.2	31.0	27.9	24.9	23.7
143°	18.4	18.9	19.8	20.7	24.4	29.0	32.2	31.1	28.0	25.1	24.0
144°	18.8	19.2	19.9	21.1	24.9	29.2	32.1	31.1	28.3	25.6	24.3
145°	19.5	19.9	20.5	21.4	24.9	29.2	32.1	31.1	28.5	25.7	24.6
146°	19.9	20.4	20.9	21.7	25.2	29.3	32.1	31.3	28.6	26.1	25.0
147°	20.4	20.7	21.4	22.0	25.5	29.5	32.1	31.2	28.9	26.5	25.4
148°	21.0	21.4	21.6	22.5	25.8	29.5	32.0	31.2	29.1	26.6	25.7
149°	21.5	21.6	22.1	22.9	26.1	29.5	32.1	31.4	29.2	26.9	25.8
150°	22.0	22.1	22.4	23.2	26.4	29.8	32.0	31.5	29.4	27.2	26.1
151°	22.5	22.6	22.8	23.6	26.6	29.8	32.1	31.5	29.5	27.5	26.4
152°	23.1	23.0	23.1	24.0	26.9	30.1	31.9	31.4	29.6	27.8	26.8
153°	23.3	23.4	23.3	24.3	27.0	30.0	31.8	31.4	29.9	28.1	26.9
154°	23.8	23.8	23.8	24.6	27.3	30.1	31.8	31.5	29.9	28.1	27.1
155°	24.3	24.0	24.2	24.9	27.5	30.2	31.8	31.4	30.1	28.4	27.3
156°	24.7	24.4	24.5	25.2	27.8	30.3	31.6	31.4	30.2	28.6	27.5
157°	24.9	24.6	24.8	25.5	27.9	30.4	31.5	31.3	30.1	28.7	27.8
158°	25.1	24.9	25.0	25.9	28.3	30.6	31.5	31.3	30.2	28.9	28.1
159°	25.4	25.1	25.4	26.2	28.4	30.6	31.4	31.3	30.4	29.2	28.3
160°	25.7	25.4	25.5	26.3	28.7	30.6	31.3	31.3	30.4	29.2	28.4
161°	26.0	25.7	25.8	26.7	28.8	30.7	31.2	31.1	30.5	29.5	28.6
162°	26.3	25.9	26.3	26.9	29.0	30.7	31.0	31.2	30.6	29.5	28.8
163°	26.3	26.1	26.3	27.3	29.2	30.8	31.0	31.2	30.5	29.7	28.9
164°	26.6	26.2	26.6	27.6	29.5	30.8	31.0	31.0	30.7	29.8	29.2
165°	26.9	26.8	27.0	27.8	29.6	31.0	30.9	31.0	30.7	29.9	29.3
166°	27.1	26.9	27.2	28.0	29.6	31.0	30.9	31.0	30.7	30.0	29.4
167°	27.3	27.3	27.5	28.3	29.8	31.0	30.8	31.0	30.7	30.1	29.5
168°	27.5	27.5	27.8	28.3	30.0	31.0	30.7	30.9	30.7	30.2	29.8
169°	27.8	27.8	28.1	28.7	30.2	31.1	30.8	30.9	30.7	30.4	29.8
170°	27.9	27.8	28.3	29.0	30.2	31.0	30.7	31.0	30.9	30.5	30.1
171°	28.2	28.1	28.6	29.2	30.4	31.1	31.0	30.9	30.7	30.6	30.1
172°	28.6	28.3	28.7	29.5	30.4	31.0	30.7	30.8	30.7	30.7	30.2
173°	28.9	28.6	28.9	29.8	30.5	31.0	31.0	31.0	30.7	30.8	30.4
174°	29.1	28.8	29.2	29.9	30.6	31.1	30.9	30.9	30.7	31.0	30.6
175°	29.4	29.0	29.6	30.0	30.9	31.1	30.8	30.6	30.7	30.9	30.7
176°	29.7	29.4	29.5	30.4	30.9	31.3	30.8	30.7	30.7	30.8	30.8
177°	29.8	29.5	29.9	30.5	30.9	31.2	30.7	30.5	30.6	30.9	30.9
178°	30.1	29.8	30.0	30.5	31.1	31.2	30.7	30.4	30.7	31.0	30.9
179°	30.2	30.0	30.2	30.7	31.0	31.0	30.7	30.4	30.6	31.0	30.9

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

Scaled Data Report

REPORT NUMBER: P1449845
CATALOG NUMBER: TWC100_T4_60W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*30.6*	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6

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Scaled Data Report

REPORT NUMBER: P1449845
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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	2952.5	2952.5
1°	2967.5	2974.8
2°	2979.6	2990.2
3°	2992.4	3005.0
4°	3003.7	3019.9
5°	3014.8	3033.4
6°	3027.2	3047.9
7°	3038.8	3064.7
8°	3050.7	3084.1
9°	3062.7	3100.8
10°	3073.0	3116.2
11°	3083.5	3132.1
12°	3097.2	3149.9
13°	3104.6	3162.5
14°	3112.6	3177.0
15°	3114.2	3186.6
16°	3121.7	3199.9
17°	3129.8	3213.9
18°	3133.7	3231.2
19°	3140.4	3241.1
20°	3142.9	3248.8
21°	3141.5	3255.2
22°	3138.3	3257.2
23°	3134.8	3262.2
24°	3130.5	3267.7
25°	3127.0	3274.6
26°	3121.2	3279.0
27°	3116.2	3285.0
28°	3111.6	3290.2
29°	3104.9	3300.4
30°	3104.3	3307.0
31°	3099.1	3313.2
32°	3095.0	3319.1
33°	3091.1	3322.4
34°	3083.7	3328.3
35°	3081.6	3333.1
36°	3079.9	3337.1
37°	3078.7	3344.8
38°	3072.2	3347.5
39°	3067.1	3349.4
40°	3059.4	3348.5
41°	3050.4	3346.6
42°	3041.1	3345.6
43°	3032.2	3348.8
44°	3022.7	3358.8

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449845
CATALOG NUMBER: TWC100_T4_60W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3012.5	3354.3
46°	3009.2	3308.7
47°	3003.7	3291.5
48°	2963.7	3300.1
49°	2919.5	3292.6
50°	2912.7	3275.8
51°	2902.8	3256.6
52°	2879.6	3232.2
53°	2842.6	3221.4
54°	2812.5	3215.6
55°	2786.7	3213.6
56°	2766.9	3223.5
57°	2752.9	3242.4
58°	2745.8	3273.5
59°	2740.1	3314.0
60°	2749.7	3358.6
61°	*2782.9*	*3374.6*
62°	2831.1	3337.3
63°	2876.5	3203.1
64°	2869.9	3034.7
65°	2741.2	2873.5
66°	2552.5	2720.0
67°	2379.6	2424.7
68°	2142.5	2112.2
69°	1827.3	1956.4
70°	1651.9	1861.2
71°	1569.4	1773.8
72°	1488.2	1682.0
73°	1417.1	1581.9
74°	1344.8	1465.9
75°	1266.8	1348.0
76°	1165.4	1230.1
77°	1078.3	1105.6
78°	1003.4	990.1
79°	932.3	871.2
80°	850.2	754.1
81°	763.5	626.3
82°	641.7	513.5
83°	535.0	408.6
84°	454.5	316.5
85°	346.9	223.1
86°	261.2	151.0
87°	144.0	89.4
88°	8.4	30.0
89°	1.3	2.5

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449845
CATALOG NUMBER: TWC100_T4_60W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	1.5	0.9
91°	1.6	0.8
92°	1.6	1.0
93°	1.9	1.1
94°	1.9	1.1
95°	2.2	1.1
96°	2.6	1.0
97°	2.7	1.3
98°	3.1	1.3
99°	3.4	1.3
100°	3.7	1.3
101°	4.1	1.5
102°	4.5	1.6
103°	5.0	1.6
104°	5.4	1.9
105°	5.7	2.1
106°	6.2	2.1
107°	6.8	2.3
108°	7.1	2.7
109°	7.6	2.9
110°	8.2	3.1
111°	8.7	3.4
112°	9.2	3.9
113°	9.8	4.2
114°	10.3	4.5
115°	11.0	4.8
116°	11.5	5.4
117°	12.1	5.9
118°	12.6	6.2
119°	13.2	6.8
120°	13.8	7.4
121°	14.4	7.8
122°	15.0	8.4
123°	15.5	8.9
124°	16.1	9.6
125°	16.6	10.2
126°	17.0	10.7
127°	17.5	11.2
128°	18.0	11.6
129°	18.4	12.3
130°	18.9	12.9
131°	19.3	13.2
132°	19.9	13.8
133°	20.0	14.2
134°	20.5	14.7

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Scaled Data Report

REPORT NUMBER: P1449845
CATALOG NUMBER: TWC100_T4_60W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	21.0	15.1
136°	21.3	15.5
137°	21.6	16.0
138°	22.1	16.4
139°	22.5	16.8
140°	22.9	17.2
141°	23.1	17.6
142°	23.4	18.1
143°	23.7	18.4
144°	24.2	18.8
145°	24.5	19.5
146°	24.7	19.9
147°	24.9	20.4
148°	25.1	21.0
149°	25.4	21.5
150°	25.7	22.0
151°	25.9	22.5
152°	26.2	23.1
153°	26.3	23.3
154°	26.5	23.8
155°	26.7	24.3
156°	26.9	24.7
157°	27.1	24.9
158°	27.3	25.1
159°	27.5	25.4
160°	27.7	25.7
161°	27.7	26.0
162°	28.0	26.3
163°	28.2	26.3
164°	28.3	26.6
165°	28.6	26.9
166°	28.7	27.1
167°	28.8	27.3
168°	29.0	27.5
169°	29.2	27.8
170°	29.3	27.9
171°	29.7	28.2
172°	29.7	28.6
173°	29.9	28.9
174°	30.2	29.1
175°	30.3	29.4
176°	30.4	29.7
177°	30.7	29.8
178°	31.0	30.1
179°	31.0	30.2

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449845
CATALOG NUMBER: TWC100_T4_60W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	30.6	30.6

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

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-1

Test Date: 02/12/2026

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

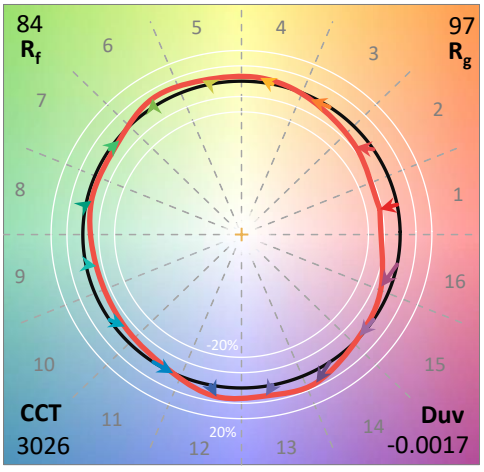
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2601-659-1
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

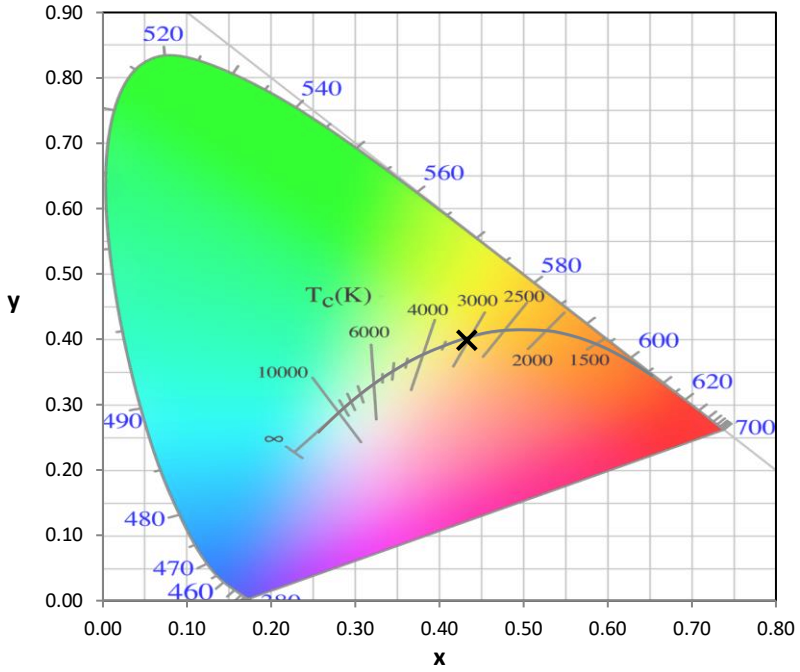
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-1

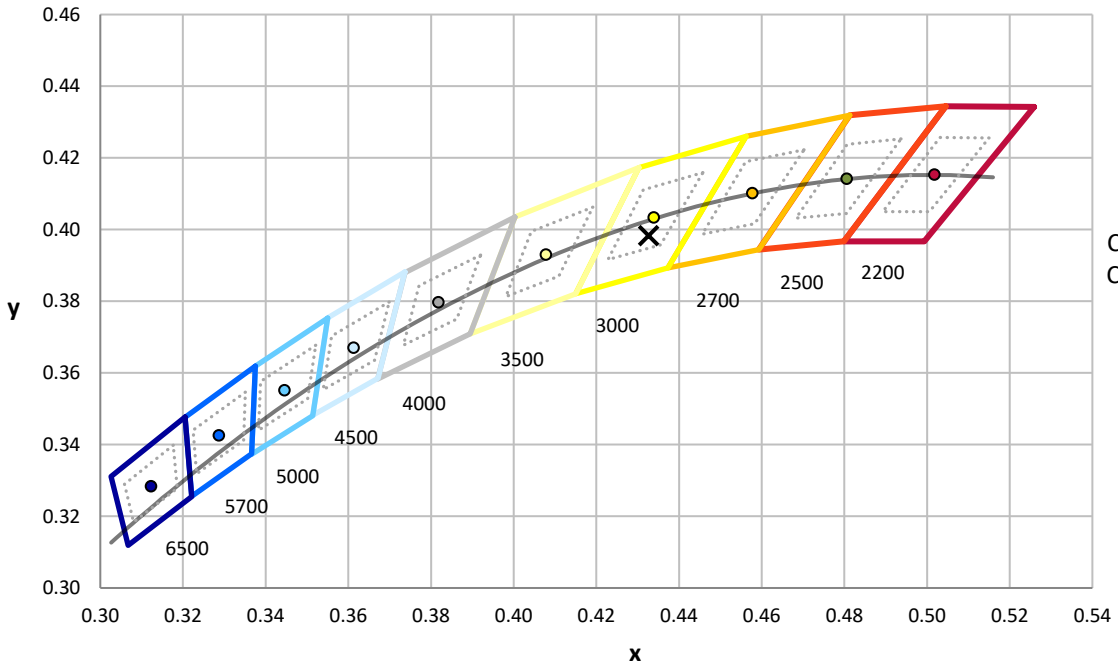
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

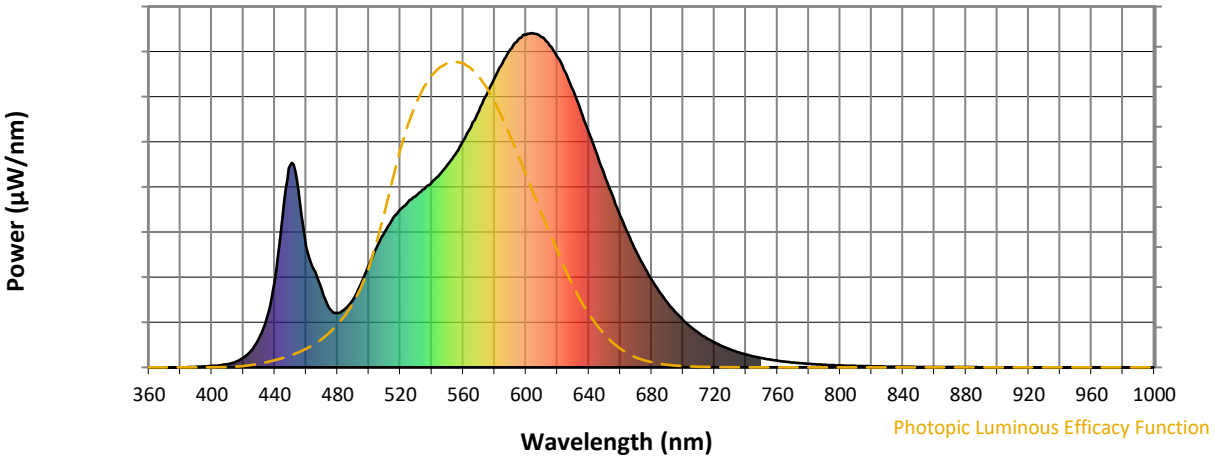


CCT = 3026K
CIE x = 0.4326
CIE y = 0.3983
Duv = -0.0017

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

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	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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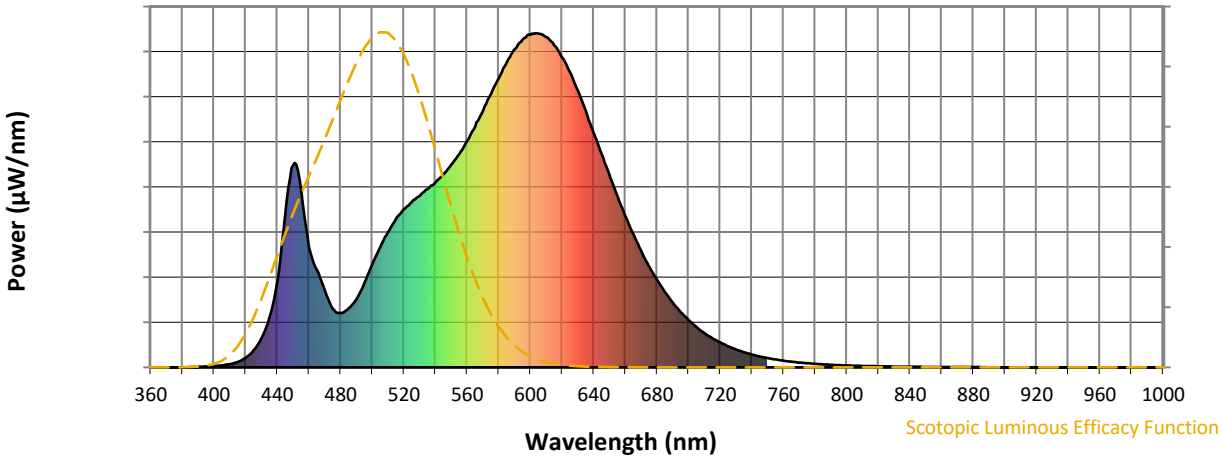
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.35**

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	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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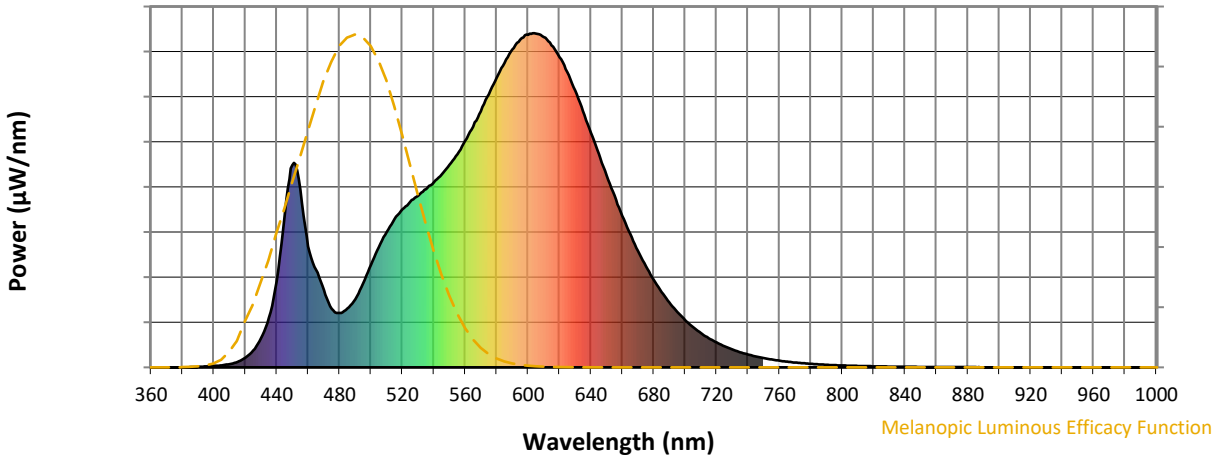
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.61**

λ (nm)	Power W^/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	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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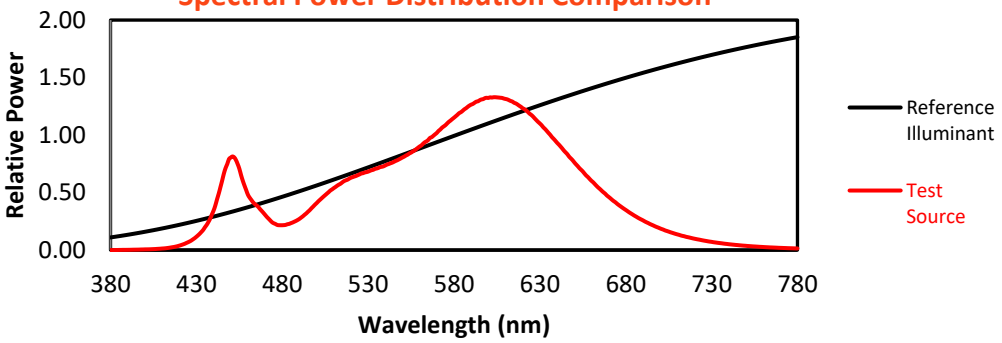
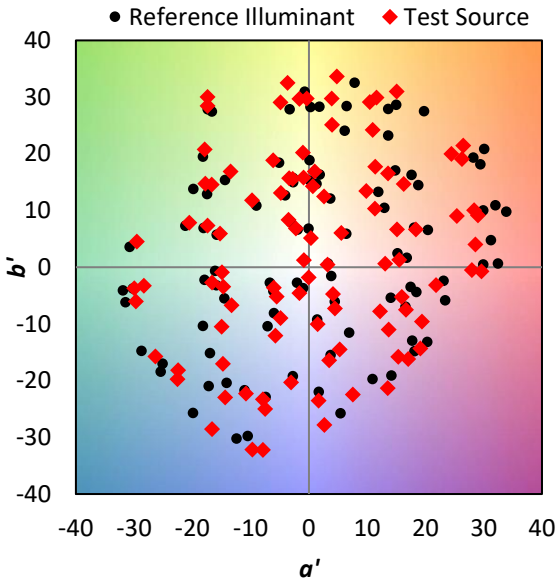
Summary

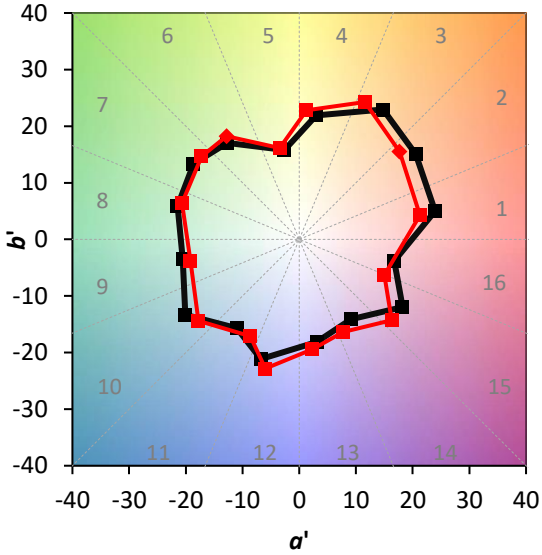
R_f = 84
R_g = 97.4
CIE R_a = 82.7
R_9 = 7.5

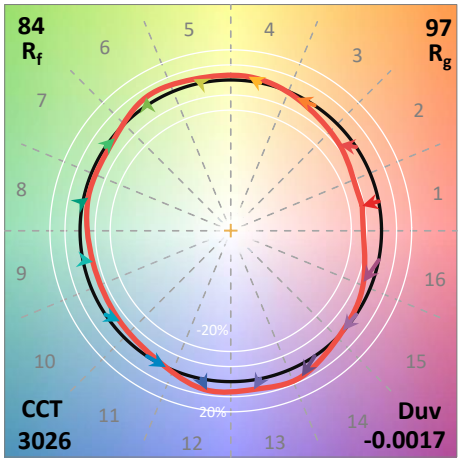
Spectral Power Distribution Comparison

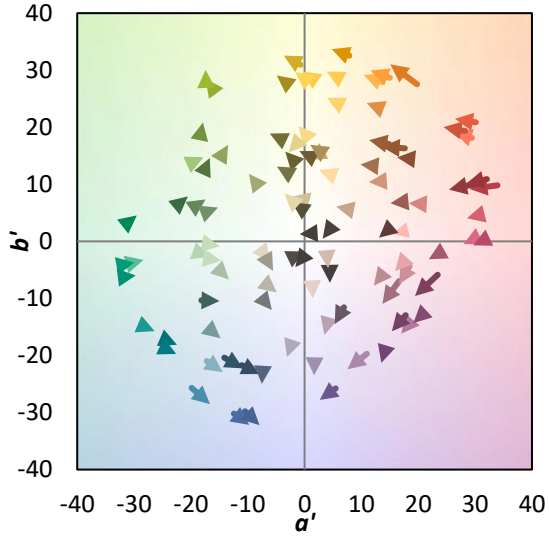


Color Vector Graphics









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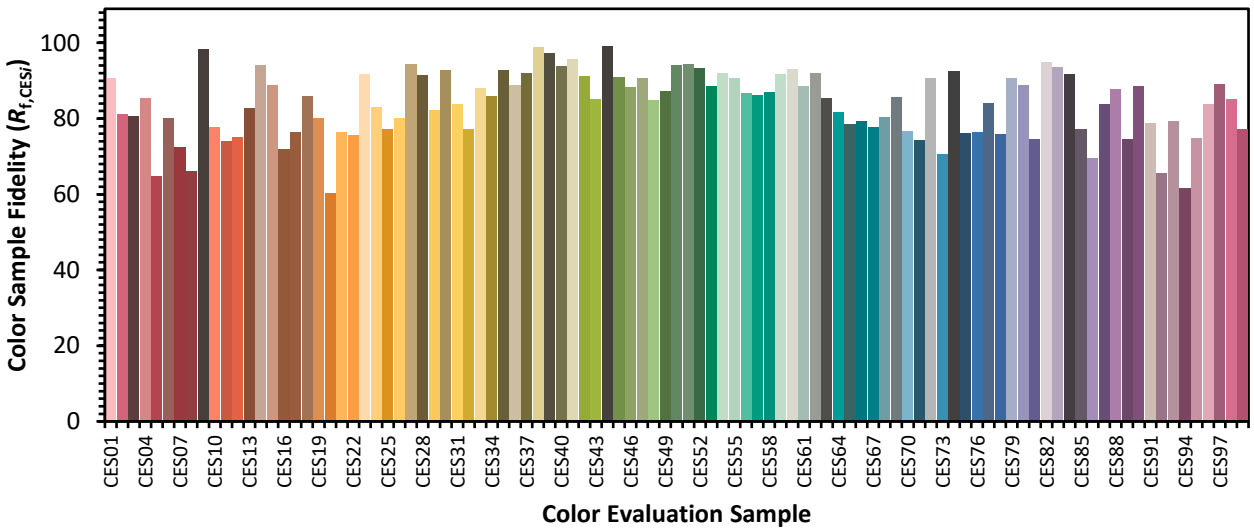
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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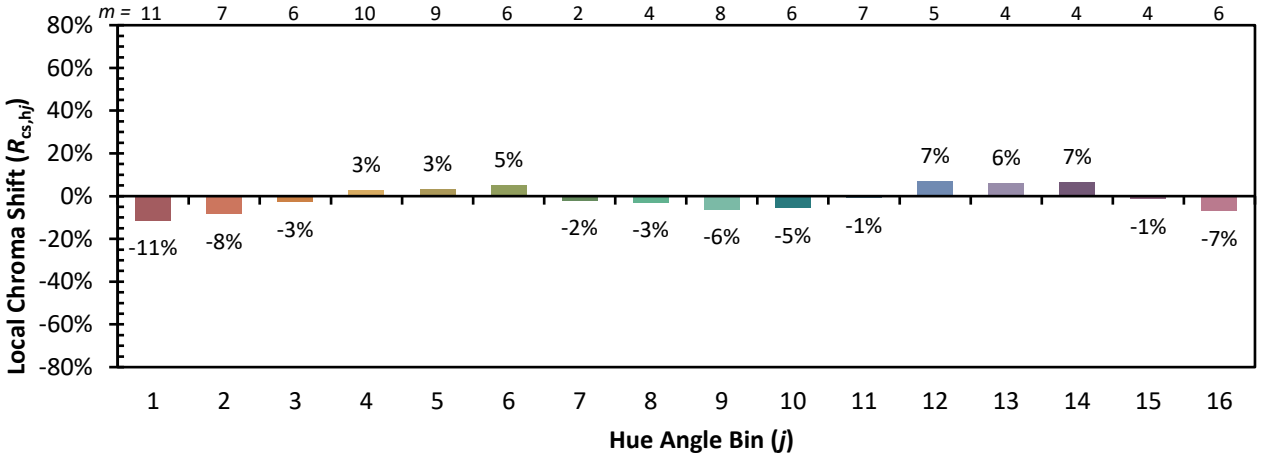
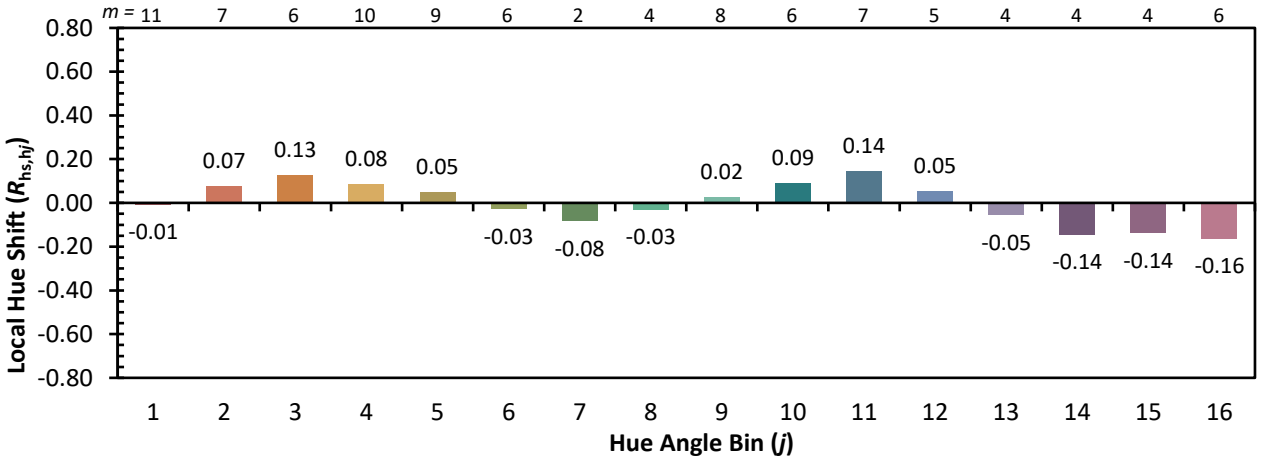
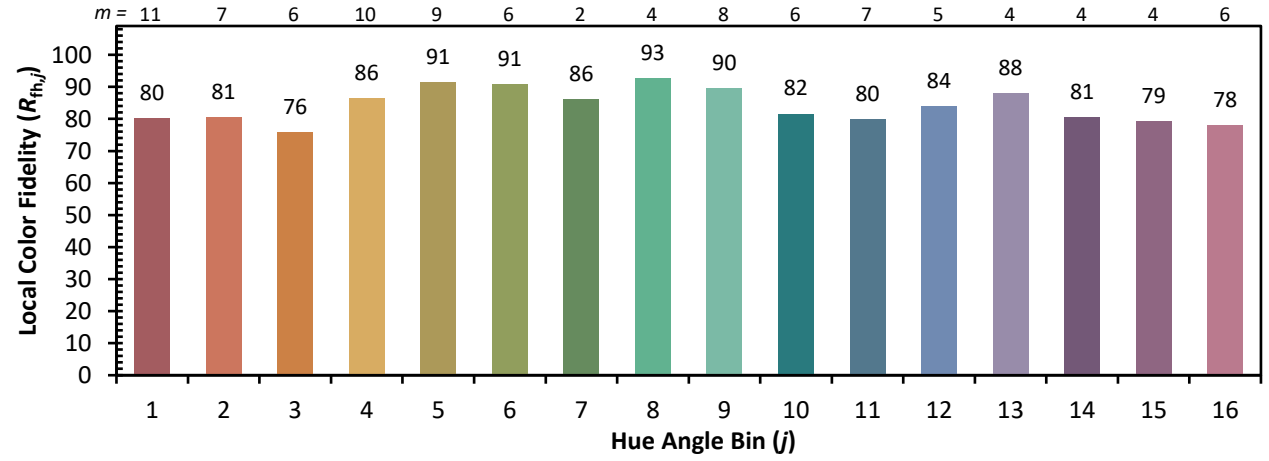
Color Rendition by Hue-Angle Bin







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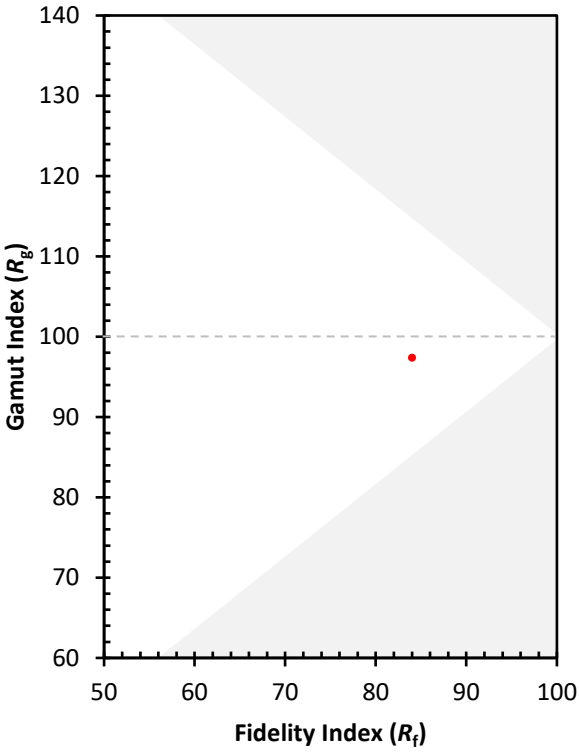
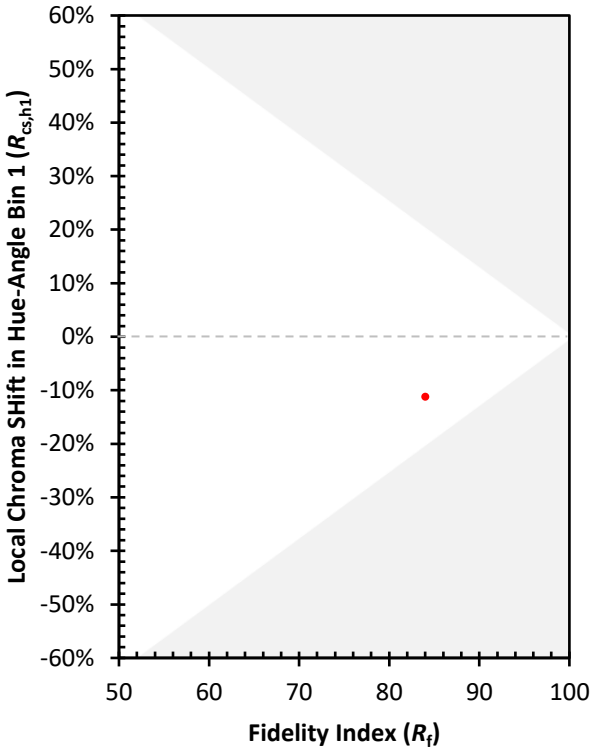
Measure Comparisons





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