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: P1449834

Luminaire Tested: **TWC100_T3_60W_4000K**

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:	P1449834
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20260310005)
Test Lab:	INNOVATION CENTER
Issue Date:	5/19/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	TWC100_T3_60W_4000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 60W 4000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10349 lumens
Efficiency:	N/A
Efficacy:	184.8 lumens/watt
Luminous Opening:	Rectangular (W 0.92' x L: 0.42' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U3 - G2

Input Watts (W):	56
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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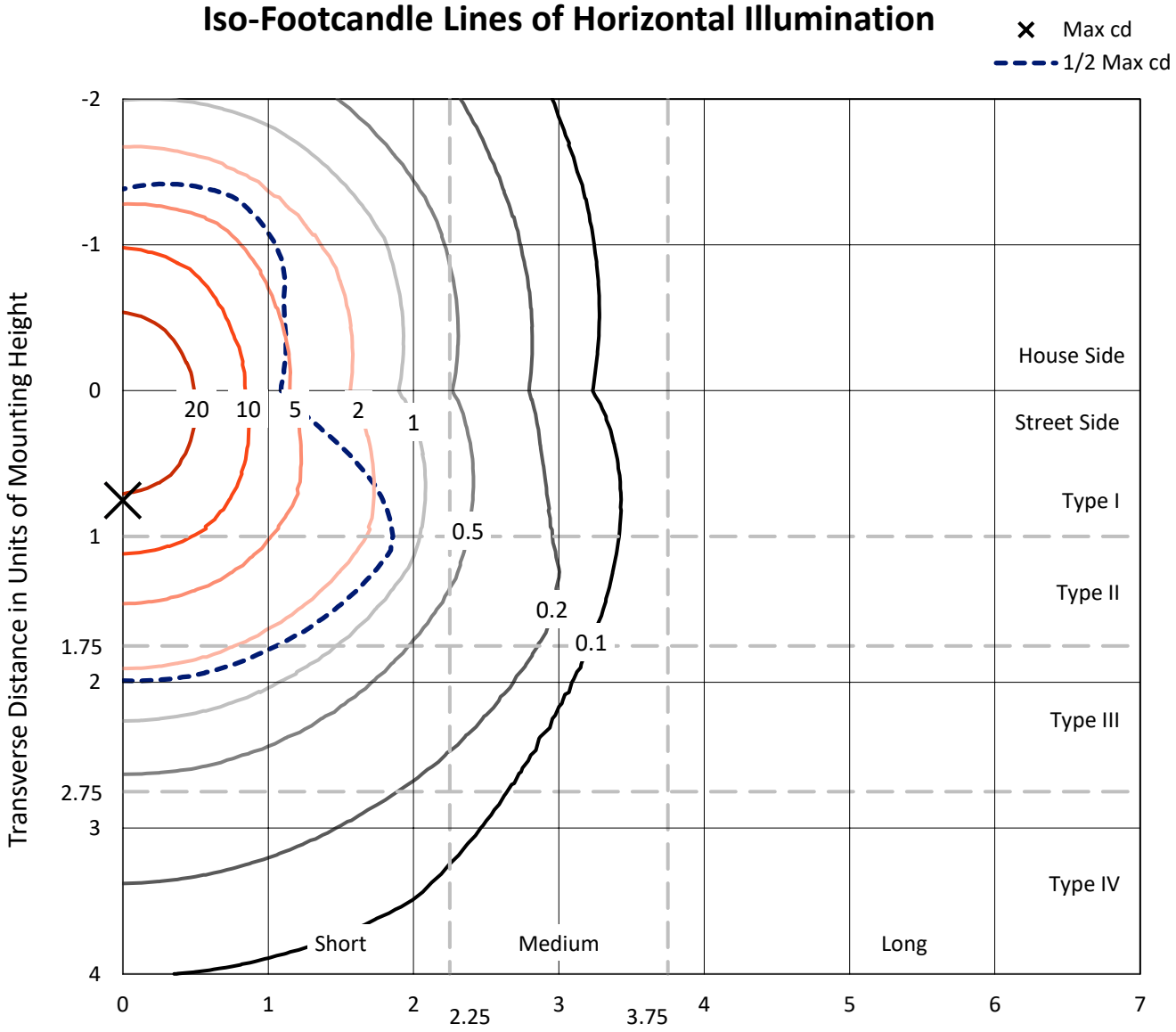
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 31.5 fc
Type III - Short - N/A

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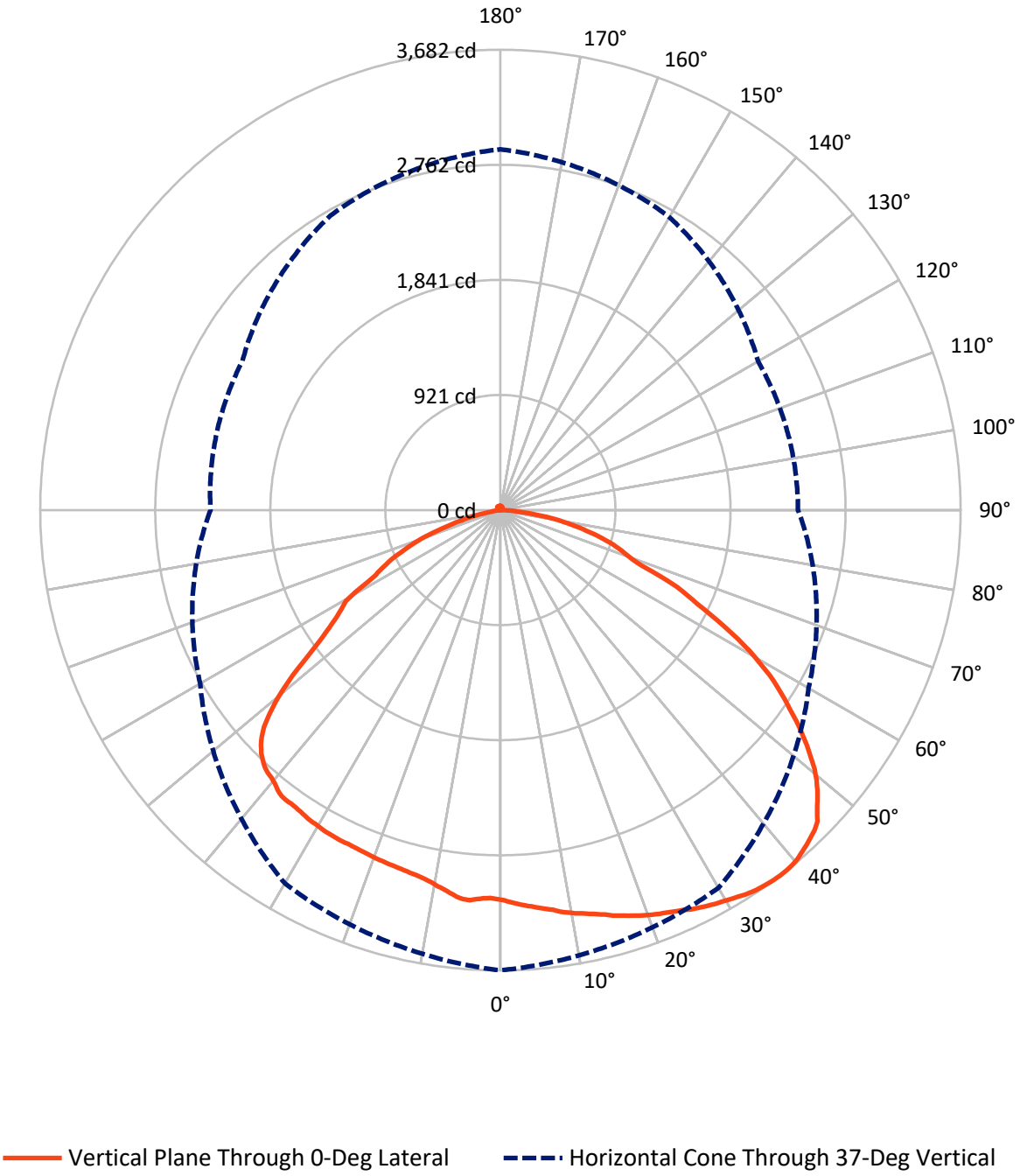
Luminous Intensity Polar Plot



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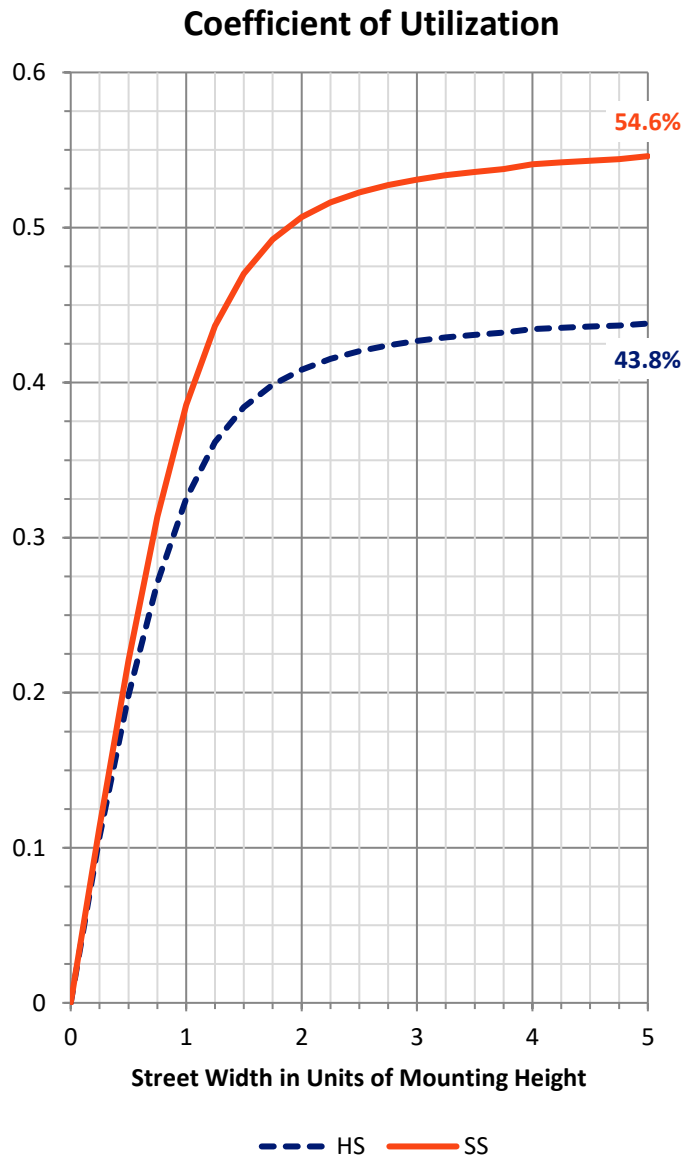
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4558.1	62.1	4620.2
	% Fixture	44.0	0.6	44.6
Street Side	Lumens	5679.4	49.4	5728.8
	% Fixture	54.9	0.5	55.4
Total	Lumens	10237.5	111.5	10349.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	2.9
10°-20°	875.0	8.5
20°-30°	1389.4	13.4
30°-40°	1799.5	17.4
40°-50°	2023.2	19.5
50°-60°	1871.3	18.1
60°-70°	1280.4	12.4
70°-80°	570.9	5.5
80°-90°	128.9	1.2
90°-100°	5.4	0.1
100°-110°	10.1	0.1
110°-120°	15.0	0.1
120°-130°	18.3	0.2
130°-140°	19.2	0.2
140°-150°	17.6	0.2
150°-160°	14.0	0.1
160°-170°	8.9	0.1
170°-180°	3.1	0.0
0°-90°	10237.5	98.9
0°-180°	10349.0	100.0



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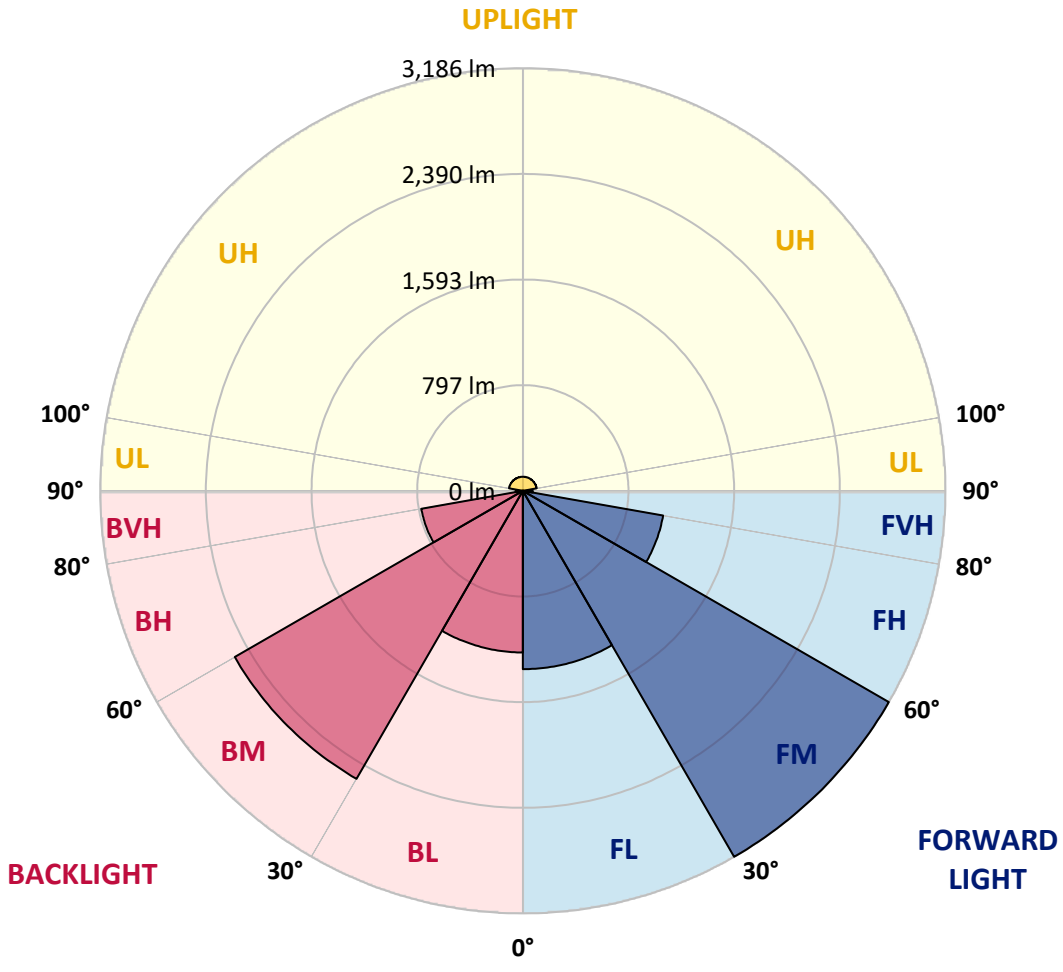
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1344.6	13.0			
FM	(30°-60°)	3186.4	30.8			
FH	(60°-80°)	1073.8	10.4			G1/1800
FVH	(80°-90°)	74.6	0.7			G1/100
BL	(0°-30°)	1218.7	11.8	B3/2500		
BM	(30°-60°)	2507.6	24.2	B3/5000		
BH	(60°-80°)	777.5	7.5	B2/1000		G2/1000
BVH	(80°-90°)	54.3	0.5			G1/100
UL	(90°-100°)	5.4	0.1		U1/10	
UH	(100°-180°)	106.1	1.0		U3/500	

BUG Rating: B3-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	3122.2	3122.2	3122.2	3122.2	3122.2	3122.2	3122.2	3122.2	3122.2	3122.2	3122.2
1°	3137.6	3131.3	3128.7	3123.7	3112.5	3110.6	3111.1	3108.1	3113.0	3118.2	3131.4
2°	3152.3	3144.8	3135.0	3123.5	3105.1	3100.0	3104.9	3104.4	3104.3	3115.4	3137.8
3°	3168.3	3161.0	3140.1	3114.5	3097.1	3092.3	3108.5	3101.7	3097.5	3111.4	3143.0
4°	3181.2	3171.9	3144.7	3111.3	3088.6	3085.7	3119.0	3107.2	3091.1	3106.3	3142.6
5°	3196.7	3184.2	3150.1	3106.9	3085.7	3092.3	3131.3	3116.2	3082.4	3100.2	3144.5
6°	3211.9	3198.5	3151.7	3099.9	3079.7	3104.1	3127.4	3122.6	3081.2	3093.3	3146.3
7°	3225.5	3209.1	3159.0	3098.2	3075.8	3111.8	3111.5	3117.3	3082.1	3084.1	3147.4
8°	3248.5	3221.1	3160.7	3090.5	3077.2	3111.4	3088.9	3100.4	3084.3	3074.3	3149.0
9°	3264.4	3232.3	3161.1	3080.0	3077.8	3095.0	3067.0	3076.9	3092.9	3064.4	3147.9
10°	3280.4	3239.8	3154.1	3065.6	3080.6	3068.6	3050.6	3054.2	3089.5	3053.7	3145.9
11°	3292.8	3250.5	3153.0	3054.1	3074.7	3039.7	3028.2	3033.9	3080.1	3040.6	3145.0
12°	3308.6	3262.0	3152.3	3041.6	3067.0	3021.2	3013.8	3017.8	3057.2	3025.6	3141.5
13°	3325.1	3280.2	3149.4	3025.5	3053.0	3002.8	3001.5	2997.2	3031.6	3004.3	3137.5
14°	3342.4	3290.5	3150.1	3010.4	3029.7	2984.8	2993.3	2981.3	3001.6	2987.1	3132.8
15°	3365.6	3301.9	3145.9	2994.9	3002.2	2966.6	2986.4	2968.2	2974.0	2969.8	3123.1
16°	3382.8	3311.2	3142.8	2978.7	2973.5	2952.5	2979.1	2956.3	2946.9	2955.4	3117.7
17°	3402.6	3324.8	3139.0	2960.5	2946.3	2941.3	2972.9	2942.3	2921.5	2937.7	3111.4
18°	3421.6	3335.7	3132.6	2941.2	2912.4	2929.9	2968.4	2930.7	2897.4	2918.4	3108.5
19°	3439.6	3347.6	3125.8	2921.8	2886.0	2918.9	2963.8	2921.5	2870.3	2898.5	3100.0
20°	3455.5	3358.1	3119.2	2895.5	2859.0	2906.4	2959.2	2914.1	2845.8	2874.2	3090.6
21°	3471.5	3367.8	3105.7	2874.6	2832.0	2890.7	2954.3	2904.0	2819.9	2853.8	3080.4
22°	3485.1	3376.4	3096.4	2852.8	2806.9	2879.4	2946.8	2894.2	2796.3	2835.4	3062.5
23°	3501.4	3389.1	3085.3	2834.2	2781.2	2868.7	2943.1	2883.9	2767.3	2814.7	3049.5
24°	3516.9	3397.6	3074.6	2813.1	2756.3	2858.7	2940.1	2870.5	2745.1	2796.5	3035.5
25°	3539.5	3405.6	3067.0	2791.9	2729.9	2851.5	2936.2	2861.8	2719.3	2779.3	3022.1
26°	3556.1	3413.4	3053.7	2771.9	2704.5	2843.1	2937.4	2851.7	2695.7	2758.3	3005.4
27°	3570.8	3416.1	3040.0	2748.1	2678.3	2832.0	2933.9	2841.0	2670.2	2735.2	2989.0
28°	3587.3	3424.3	3016.9	2726.2	2651.5	2817.5	2930.8	2831.4	2644.4	2709.6	2972.0
29°	3599.8	3432.1	3001.0	2702.9	2617.7	2805.1	2928.5	2821.2	2618.0	2681.2	2952.9
30°	3615.2	3438.1	2984.8	2676.4	2590.2	2793.0	2921.3	2810.8	2584.9	2646.1	2934.2
31°	3630.0	3450.4	2968.7	2643.1	2561.5	2782.3	2916.2	2798.6	2557.4	2597.6	2914.3
32°	3647.8	3458.9	2951.8	2609.1	2532.6	2768.3	2911.1	2789.1	2531.0	2552.6	2894.6
33°	3658.6	3466.3	2934.1	2571.7	2505.7	2757.4	2904.7	2778.6	2503.9	2506.4	2866.9
34°	3668.4	3474.4	2914.7	2527.1	2476.6	2746.1	2894.8	2768.2	2474.5	2460.3	2844.5
35°	3675.4	3479.5	2894.6	2477.7	2447.8	2733.4	2888.6	2750.9	2444.7	2415.5	2820.7
36°	3679.8	3483.9	2870.2	2429.6	2417.5	2721.0	2884.0	2734.8	2413.8	2367.5	2796.2
37°	3682.3	3488.8	2847.2	2381.1	2379.7	2705.1	2885.6	2719.8	2384.0	2319.7	2774.6
38°	3680.6	3489.6	2824.3	2330.7	2347.2	2689.1	2880.6	2708.6	2351.0	2264.1	2749.2
39°	3674.9	3488.8	2801.5	2270.7	2315.3	2677.5	2862.0	2704.3	2318.8	2214.8	2724.6
40°	3665.4	3483.0	2773.3	2220.6	2282.3	2668.3	2837.2	2696.1	2286.4	2165.5	2693.3
41°	3646.0	3476.7	2753.0	2170.4	2246.2	2655.1	2817.6	2676.3	2252.6	2117.0	2668.3
42°	3628.2	3468.3	2732.2	2121.1	2212.1	2636.7	2808.7	2646.6	2212.3	2069.0	2644.8
43°	3608.1	3452.7	2712.0	2068.9	2177.5	2605.3	2789.9	2623.1	2177.3	2014.9	2622.6
44°	3586.9	3435.1	2696.4	2017.6	2140.9	2589.0	2761.4	2611.6	2140.6	1966.2	2599.9

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REPORT NUMBER: P1449834
CATALOG NUMBER: TWC100_T3_60W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3556.0	3414.2	2679.0	1967.6	2100.1	2576.7	2729.2	2591.8	2104.2	1916.7	2580.6
46°	3493.5	3390.5	2663.0	1910.7	2060.4	2558.3	2686.0	2563.8	2071.9	1863.0	2561.3
47°	3440.7	3355.0	2641.6	1858.5	2024.2	2530.6	2632.4	2531.2	2044.9	1811.1	2543.7
48°	3386.0	3308.4	2626.5	1805.3	1994.8	2495.9	2566.8	2498.4	2011.9	1759.3	2525.4
49°	3326.2	3242.3	2610.8	1752.1	1959.1	2462.5	2471.9	2462.1	1958.5	1706.2	2508.6
50°	3257.8	3189.5	2595.2	1697.9	1913.4	2428.0	2370.5	2410.5	1918.4	1645.1	2491.1
51°	3174.0	3137.5	2580.0	1638.2	1867.7	2385.1	2250.4	2349.5	1885.2	1591.4	2473.3
52°	3089.4	3069.1	2563.1	1584.2	1833.5	2321.7	2120.7	2277.0	1848.8	1538.2	2455.6
53°	3000.7	2990.5	2544.3	1529.0	1798.2	2253.4	1973.3	2190.2	1806.6	1483.3	2431.0
54°	2909.9	2891.5	2524.7	1470.5	1759.0	2170.3	1850.8	2087.2	1766.2	1424.3	2409.8
55°	2809.5	2800.2	2504.7	1414.7	1717.6	2063.6	1746.3	1955.3	1724.7	1368.2	2389.3
56°	2719.9	2700.3	2484.7	1357.7	1669.0	1949.3	1662.1	1828.2	1680.7	1310.8	2371.3
57°	2626.4	2588.1	2462.0	1292.1	1624.2	1825.5	1588.0	1704.7	1631.2	1251.3	2348.0
58°	2527.1	2484.0	2429.2	1232.4	1576.8	1699.2	1530.4	1595.2	1581.0	1193.1	2322.3
59°	2406.6	2380.0	2368.8	1173.7	1526.0	1572.0	1479.3	1500.7	1530.2	1127.2	2278.5
60°	2290.9	2275.0	2319.9	1114.6	1468.5	1481.5	1432.6	1431.4	1477.0	1068.0	2219.9
61°	2164.4	2161.4	2268.9	1051.2	1416.0	1410.6	1330.8	1375.3	1414.3	1008.9	2171.0
62°	2023.9	2053.0	2192.8	995.0	1360.2	1352.6	1205.6	1325.7	1360.2	945.3	2110.3
63°	1880.4	1944.9	2099.7	938.5	1298.5	1300.5	1125.2	1271.7	1302.1	894.4	2027.3
64°	1745.5	1832.2	1987.1	881.5	1240.7	1253.4	1072.1	1180.6	1235.0	844.2	1912.9
65°	1643.2	1687.9	1855.5	823.2	1179.6	1166.2	1016.7	1085.8	1151.7	788.4	1786.6
66°	1541.1	1545.4	1684.3	770.5	1109.8	1064.7	960.8	1029.9	1058.2	731.3	1636.8
67°	1387.0	1425.8	1511.7	711.8	1018.6	1015.7	899.3	989.8	950.5	678.1	1463.6
68°	1213.6	1312.0	1325.2	653.6	919.2	977.2	832.7	950.0	846.0	623.9	1261.5
69°	1124.4	1142.5	1137.1	591.1	810.2	938.1	771.4	904.1	750.7	561.6	1066.0
70°	1071.1	1002.0	963.0	536.9	706.4	889.0	707.0	853.2	688.9	506.4	878.0
71°	1021.1	940.8	843.0	483.0	635.5	844.4	640.4	808.8	645.7	453.6	737.0
72°	968.2	895.0	855.9	426.8	588.1	802.1	560.6	762.1	595.3	402.6	689.0
73°	911.0	853.5	930.7	377.4	543.2	754.0	486.6	712.9	544.4	349.6	809.4
74°	843.3	812.2	730.4	331.6	488.8	706.6	418.8	655.1	514.0	304.2	720.1
75°	776.2	768.1	476.8	288.9	458.2	657.7	358.2	596.0	485.3	262.9	431.2
76°	709.4	712.5	397.7	245.5	430.0	601.8	304.0	528.3	453.6	225.0	342.3
77°	639.1	659.2	350.3	211.4	396.6	528.2	260.6	461.3	422.0	189.0	300.1
78°	574.4	612.9	349.2	180.4	369.0	461.6	219.9	394.8	394.5	159.0	288.9
79°	508.0	571.0	345.7	153.3	342.7	399.4	169.0	343.5	367.6	132.4	306.4
80°	442.9	525.3	263.3	125.4	317.5	348.3	111.0	297.6	336.7	107.6	226.3
81°	371.6	477.8	183.0	100.6	288.6	297.6	69.8	248.4	307.1	85.0	152.9
82°	307.3	415.0	154.7	78.1	261.7	252.3	55.0	195.5	277.7	63.6	127.0
83°	243.1	339.4	134.8	57.2	233.5	196.1	42.4	121.4	245.8	48.2	109.7
84°	186.3	292.5	115.7	42.2	203.2	117.5	31.4	56.1	208.4	35.9	96.0
85°	127.1	245.6	98.4	30.5	172.7	45.9	25.0	28.7	172.9	25.1	81.7
86°	90.1	181.5	83.1	21.2	135.2	23.7	15.7	19.3	141.1	17.4	66.6
87°	53.6	121.1	59.8	12.6	107.3	14.4	9.9	11.9	100.1	11.3	45.7
88°	18.9	44.7	25.9	6.4	62.4	7.6	6.8	7.3	37.7	6.5	16.0
89°	2.3	2.5	2.4	2.7	16.1	3.8	5.3	5.4	5.3	3.6	4.1

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Scaled Data Report

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1.5	1.8	1.7	1.3	2.1	2.4	5.5	5.4	5.0	3.3	4.1
91°	1.5	2.0	1.9	1.5	2.3	2.7	6.0	5.9	5.5	3.6	4.6
92°	1.8	2.3	2.0	1.7	2.6	2.8	6.5	6.3	6.0	4.0	4.8
93°	2.0	2.4	2.3	1.9	2.8	3.3	7.0	7.0	6.4	4.3	5.1
94°	2.0	2.7	2.5	2.0	3.1	3.4	7.7	7.5	6.9	4.6	5.4
95°	2.4	2.9	2.8	2.1	3.5	3.7	8.3	8.1	7.5	5.0	5.9
96°	2.5	3.1	3.0	2.4	3.9	4.1	8.8	8.7	7.9	5.4	6.1
97°	2.9	3.5	3.3	2.5	4.1	4.6	9.6	9.2	8.6	6.0	6.7
98°	3.1	3.7	3.4	2.9	4.7	5.0	10.1	9.9	9.1	6.4	7.0
99°	3.3	4.1	3.9	3.1	5.1	5.3	10.9	10.7	9.8	6.7	7.4
100°	3.7	4.4	4.1	3.5	5.5	5.7	11.6	11.3	10.2	7.2	7.9
101°	4.2	4.6	4.4	3.9	5.8	6.2	12.3	11.9	10.9	7.6	8.2
102°	4.5	5.0	4.7	4.1	6.4	6.8	13.0	12.8	11.6	8.1	8.7
103°	4.8	5.5	5.0	4.6	6.8	7.2	13.9	13.4	12.3	8.6	9.1
104°	5.2	6.0	5.3	4.8	7.2	7.7	14.4	14.2	12.9	9.3	9.7
105°	5.7	6.1	5.7	5.2	7.7	8.3	15.3	15.0	13.4	9.6	10.2
106°	6.1	6.7	6.1	5.7	8.3	8.8	16.0	15.8	14.1	10.2	10.7
107°	6.5	7.1	6.6	6.1	8.7	9.4	16.9	16.6	14.8	10.8	11.2
108°	6.9	7.6	6.9	6.5	9.2	10.1	17.7	17.4	15.3	11.4	11.6
109°	7.5	8.0	7.4	6.9	9.9	10.8	18.5	18.2	16.1	11.8	12.1
110°	7.9	8.5	7.7	7.4	10.4	11.4	19.2	18.9	16.7	12.4	12.7
111°	8.5	8.9	8.0	7.8	10.9	12.0	20.3	19.9	17.2	13.0	13.2
112°	8.9	9.4	8.5	8.2	11.4	12.7	21.1	20.6	17.8	13.5	13.8
113°	9.4	10.0	8.9	8.7	11.9	13.6	21.7	21.3	18.4	14.2	14.0
114°	10.0	10.5	9.3	9.3	12.3	14.1	22.6	22.1	19.1	14.6	14.6
115°	10.5	11.0	9.8	9.7	12.9	14.8	23.3	22.6	19.5	15.3	15.2
116°	11.1	11.5	10.2	10.3	13.5	15.8	24.1	23.5	20.0	15.8	15.5
117°	11.8	12.1	10.5	10.6	13.9	16.2	24.8	24.1	20.8	16.4	16.0
118°	12.3	12.5	11.1	11.2	14.5	16.9	25.6	24.7	20.9	17.0	16.5
119°	12.8	13.1	11.6	11.6	14.9	17.6	26.3	25.4	21.5	17.7	17.1
120°	13.5	13.8	12.0	12.1	15.6	18.2	26.9	26.0	22.1	18.1	17.5
121°	14.0	14.1	12.3	12.7	16.0	19.1	27.5	26.6	22.5	18.6	18.0
122°	14.7	14.8	12.9	13.2	16.5	19.5	28.1	27.2	23.0	19.1	18.4
123°	15.3	15.1	13.5	13.6	17.1	20.2	28.6	27.5	23.7	19.7	18.9
124°	15.8	15.6	13.8	14.2	17.6	20.8	29.2	28.2	24.1	20.1	19.4
125°	16.4	16.1	14.3	14.7	18.2	21.2	29.8	28.5	24.5	20.8	19.9
126°	16.9	16.7	14.7	15.3	18.7	21.9	30.3	28.9	24.8	21.1	20.4
127°	17.5	17.1	15.3	15.6	19.1	22.5	30.6	29.2	25.3	21.4	20.8
128°	18.0	17.5	15.7	16.2	19.9	23.0	31.0	29.8	25.7	21.9	21.0
129°	18.7	18.2	16.1	16.7	20.4	23.7	31.4	30.2	26.3	22.5	21.5
130°	19.1	18.6	16.5	17.1	20.9	24.2	31.6	30.5	26.6	22.8	22.0
131°	19.5	19.0	17.0	17.6	21.4	24.5	32.1	30.8	27.0	23.2	22.5
132°	20.0	19.3	17.5	18.2	21.9	25.2	32.4	31.1	27.4	23.5	22.6
133°	20.5	20.0	17.8	18.6	22.4	25.6	32.6	31.4	27.8	24.1	23.2
134°	20.9	20.2	18.3	19.0	23.0	26.1	32.9	31.7	28.1	24.3	23.6

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

Scaled Data Report

REPORT NUMBER: P1449834
CATALOG NUMBER: TWC100_T3_60W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	21.2	20.5	18.7	19.3	23.5	26.4	33.3	32.0	28.5	24.8	23.8
136°	21.7	20.9	19.1	19.9	24.1	27.0	33.4	32.2	28.7	25.2	24.3
137°	22.2	21.4	19.7	20.4	24.5	27.5	33.6	32.4	29.2	25.5	24.8
138°	22.6	21.8	20.0	20.8	25.0	27.9	33.8	32.6	29.3	25.8	24.9
139°	22.9	22.4	20.5	21.2	25.5	28.4	33.9	32.7	29.7	26.1	25.4
140°	23.4	22.6	20.8	21.6	25.9	28.7	34.3	32.9	29.9	26.6	25.8
141°	23.7	22.9	21.3	21.9	26.3	29.3	34.3	33.0	30.2	26.9	25.9
142°	24.2	23.3	21.6	22.3	26.7	29.4	34.4	33.3	30.3	27.1	26.3
143°	24.2	23.7	22.1	22.6	27.1	30.0	34.3	33.3	30.5	27.6	26.7
144°	24.8	24.1	22.5	23.2	27.4	30.3	34.3	33.4	30.8	27.8	26.9
145°	25.1	24.3	23.0	23.6	27.6	30.7	34.4	33.5	31.0	28.1	27.2
146°	25.5	24.6	23.3	23.9	28.1	31.1	34.4	33.6	31.1	28.4	27.5
147°	25.6	25.0	23.7	24.3	28.3	31.3	34.4	33.6	31.4	28.7	27.8
148°	26.0	25.3	24.1	24.7	28.5	31.7	34.3	33.7	31.4	29.0	28.1
149°	26.5	25.7	24.2	25.0	28.9	31.8	34.4	33.8	31.6	29.2	28.5
150°	26.7	26.0	24.7	25.4	29.2	32.0	34.5	33.8	31.7	29.6	28.6
151°	27.1	26.3	25.2	25.8	29.3	32.2	34.4	34.0	31.9	29.7	28.9
152°	27.4	26.7	25.6	26.2	29.6	32.5	34.4	34.0	32.1	30.0	29.2
153°	27.6	27.0	25.9	26.3	29.7	32.6	34.4	34.0	32.2	30.3	29.5
154°	28.1	27.2	26.3	26.7	30.0	32.9	34.4	33.8	32.4	30.5	29.6
155°	28.3	27.6	26.5	27.0	30.3	32.9	34.2	33.9	32.4	30.7	30.0
156°	28.5	27.6	26.9	27.5	30.3	32.9	34.0	33.8	32.5	30.9	30.2
157°	28.5	27.8	27.0	27.6	30.7	33.1	34.0	33.8	32.5	31.1	30.3
158°	28.9	28.1	27.3	28.0	30.7	33.2	33.8	33.9	32.6	31.2	30.5
159°	29.0	28.4	27.7	28.1	31.1	33.3	33.8	33.7	32.6	31.4	30.7
160°	29.1	28.5	28.0	28.6	31.2	33.3	33.6	33.7	32.6	31.5	30.7
161°	29.3	28.7	28.3	28.9	31.4	33.5	33.6	33.6	32.7	31.7	31.0
162°	29.6	29.1	28.5	29.4	31.7	33.5	33.5	33.6	32.7	31.8	31.3
163°	29.6	29.2	28.8	29.6	31.8	33.6	33.3	33.6	32.8	32.1	31.4
164°	29.9	29.2	29.0	29.7	31.9	33.7	33.3	33.4	32.9	32.1	31.4
165°	29.9	29.4	29.2	30.0	32.1	33.6	33.1	33.4	32.9	32.1	31.6
166°	30.2	29.8	29.5	30.2	32.2	33.7	33.1	33.4	32.9	32.3	31.8
167°	30.3	30.0	29.7	30.5	32.3	33.9	32.9	33.3	32.9	32.4	31.9
168°	30.5	30.2	30.0	30.8	32.5	33.8	32.9	33.3	33.0	32.6	32.2
169°	30.7	30.3	30.3	31.0	32.5	33.6	33.0	33.2	33.0	32.6	32.2
170°	30.9	30.5	30.6	31.2	32.6	33.9	33.0	33.1	33.2	32.8	32.4
171°	31.1	30.7	30.8	31.5	32.9	34.0	32.9	33.1	33.2	32.9	32.4
172°	31.4	30.9	31.1	31.7	32.9	33.7	33.0	33.1	32.9	32.9	32.5
173°	31.4	31.1	31.4	31.9	33.0	33.7	33.1	33.0	32.9	33.1	32.8
174°	31.6	31.4	31.4	32.2	33.2	33.6	33.3	33.0	32.9	33.1	32.9
175°	32.0	31.5	31.8	32.4	33.2	33.9	33.3	33.0	32.9	33.2	32.9
176°	32.2	31.7	31.9	32.5	33.2	33.6	33.1	32.9	32.9	33.2	33.1
177°	32.3	32.1	32.1	32.6	33.2	33.7	33.0	32.9	32.9	33.1	33.2
178°	32.7	32.1	32.3	32.8	33.3	33.6	33.1	32.7	32.8	33.2	33.3
179°	32.5	32.3	32.4	33.0	33.3	33.6	32.9	32.7	32.7	33.1	33.4

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

Scaled Data Report

REPORT NUMBER: P1449834
CATALOG NUMBER: TWC100_T3_60W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*33.0*	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0

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Scaled Data Report

REPORT NUMBER: P1449834
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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	3122.2	3122.2
1°	3135.1	3137.6
2°	3147.8	3152.3
3°	3160.1	3168.3
4°	3171.8	3181.2
5°	3180.6	3196.7
6°	3191.8	3211.9
7°	3201.9	3225.5
8°	3218.8	3248.5
9°	3230.2	3264.4
10°	3240.3	3280.4
11°	3251.6	3292.8
12°	3256.9	3308.6
13°	3266.5	3325.1
14°	3277.1	3342.4
15°	3293.4	3365.6
16°	3304.2	3382.8
17°	3314.5	3402.6
18°	3325.4	3421.6
19°	3334.0	3439.6
20°	3344.2	3455.5
21°	3352.0	3471.5
22°	3358.2	3485.1
23°	3365.2	3501.4
24°	3372.0	3516.9
25°	3379.0	3539.5
26°	3392.0	3556.1
27°	3398.8	3570.8
28°	3405.3	3587.3
29°	3410.0	3599.8
30°	3411.0	3615.2
31°	3417.5	3630.0
32°	3423.2	3647.8
33°	3435.9	3658.6
34°	3441.7	3668.4
35°	3446.4	3675.4
36°	3449.8	3679.8
37°	*3449.0*	*3682.3*
38°	3449.8	3680.6
39°	3446.4	3674.9
40°	3439.5	3665.4
41°	3425.3	3646.0
42°	3413.7	3628.2
43°	3395.4	3608.1
44°	3376.4	3586.9

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449834
CATALOG NUMBER: TWC100_T3_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3355.5	3556.0
46°	3329.8	3493.5
47°	3298.1	3440.7
48°	3243.1	3386.0
49°	3169.2	3326.2
50°	3118.8	3257.8
51°	3060.5	3174.0
52°	2988.3	3089.4
53°	2902.1	3000.7
54°	2812.5	2909.9
55°	2715.5	2809.5
56°	2612.8	2719.9
57°	2498.2	2626.4
58°	2392.5	2527.1
59°	2286.9	2406.6
60°	2167.0	2290.9
61°	2060.3	2164.4
62°	1954.7	2023.9
63°	1848.4	1880.4
64°	1727.8	1745.5
65°	1592.9	1643.2
66°	1456.5	1541.1
67°	1351.3	1387.0
68°	1215.9	1213.6
69°	1040.1	1124.4
70°	938.3	1071.1
71°	889.7	1021.1
72°	845.7	968.2
73°	803.8	911.0
74°	761.4	843.3
75°	716.2	776.2
76°	657.7	709.4
77°	607.5	639.1
78°	565.1	574.4
79°	524.8	508.0
80°	478.1	442.9
81°	430.3	371.6
82°	363.2	307.3
83°	302.1	243.1
84°	257.1	186.3
85°	196.9	127.1
86°	149.1	90.1
87°	84.5	53.6
88°	6.4	18.9
89°	4.2	2.3

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Scaled Data Report

REPORT NUMBER: P1449834
CATALOG NUMBER: TWC100_T3_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	4.6	1.5
91°	4.7	1.5
92°	5.1	1.8
93°	5.5	2.0
94°	6.0	2.0
95°	6.4	2.4
96°	6.8	2.5
97°	7.4	2.9
98°	7.8	3.1
99°	8.3	3.3
100°	8.9	3.7
101°	9.4	4.2
102°	10.0	4.5
103°	10.5	4.8
104°	10.9	5.2
105°	11.6	5.7
106°	12.2	6.1
107°	12.7	6.5
108°	13.2	6.9
109°	13.6	7.5
110°	14.3	7.9
111°	14.8	8.5
112°	15.6	8.9
113°	16.0	9.4
114°	16.6	10.0
115°	17.1	10.5
116°	17.7	11.1
117°	18.4	11.8
118°	18.9	12.3
119°	19.3	12.8
120°	19.9	13.5
121°	20.4	14.0
122°	21.0	14.7
123°	21.1	15.3
124°	21.8	15.8
125°	22.2	16.4
126°	22.6	16.9
127°	22.9	17.5
128°	23.3	18.0
129°	23.5	18.7
130°	24.0	19.1
131°	24.3	19.5
132°	24.5	20.0
133°	24.8	20.5
134°	25.2	20.9

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Scaled Data Report

REPORT NUMBER: P1449834
CATALOG NUMBER: TWC100_T3_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	25.7	21.2
136°	25.9	21.7
137°	26.1	22.2
138°	26.3	22.6
139°	26.7	22.9
140°	26.9	23.4
141°	27.1	23.7
142°	27.4	24.2
143°	27.8	24.2
144°	27.8	24.8
145°	28.0	25.1
146°	28.2	25.5
147°	28.3	25.6
148°	28.8	26.0
149°	29.0	26.5
150°	29.0	26.7
151°	29.2	27.1
152°	29.4	27.4
153°	29.5	27.6
154°	29.6	28.1
155°	29.7	28.3
156°	29.9	28.5
157°	30.0	28.5
158°	30.1	28.9
159°	30.3	29.0
160°	30.5	29.1
161°	30.7	29.3
162°	30.7	29.6
163°	30.8	29.6
164°	31.0	29.9
165°	31.1	29.9
166°	31.4	30.2
167°	31.4	30.3
168°	31.7	30.5
169°	31.7	30.7
170°	31.9	30.9
171°	32.2	31.1
172°	32.2	31.4
173°	32.5	31.4
174°	32.5	31.6
175°	32.9	32.0
176°	32.9	32.2
177°	33.1	32.3
178°	33.2	32.7
179°	33.3	32.5

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Scaled Data Report

REPORT NUMBER: P1449834
CATALOG NUMBER: TWC100_T3_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	33.0	33.0

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: SP1-2601-659-2

Test Date: 02/12/2026

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

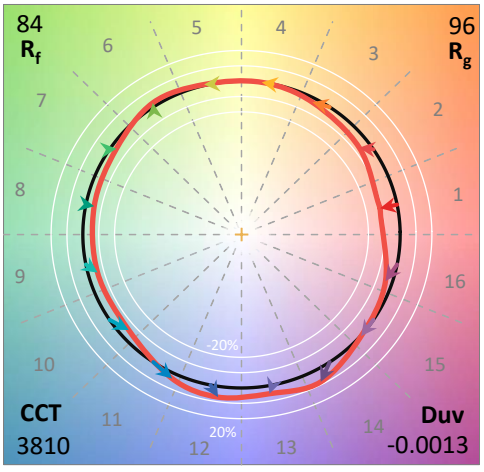
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2601-659-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	02/16/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Lumark
Catalog Number:	**MWP2460W34VDDKYYAD-T4-24W-4000K**
Description:	Mester Wedge, at T4 beam setting, 24W output, 4000K

Spectral Parameters

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

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



Test Conditions

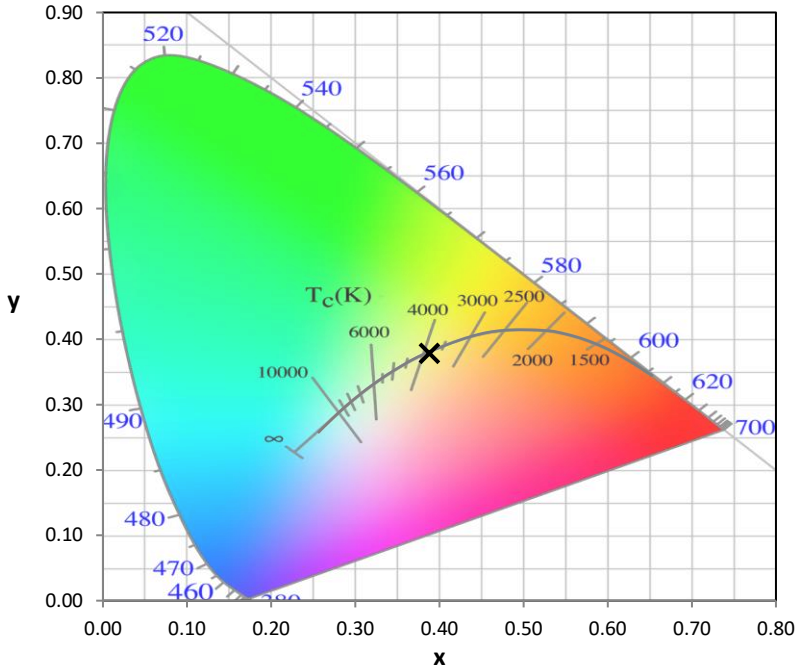
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-2

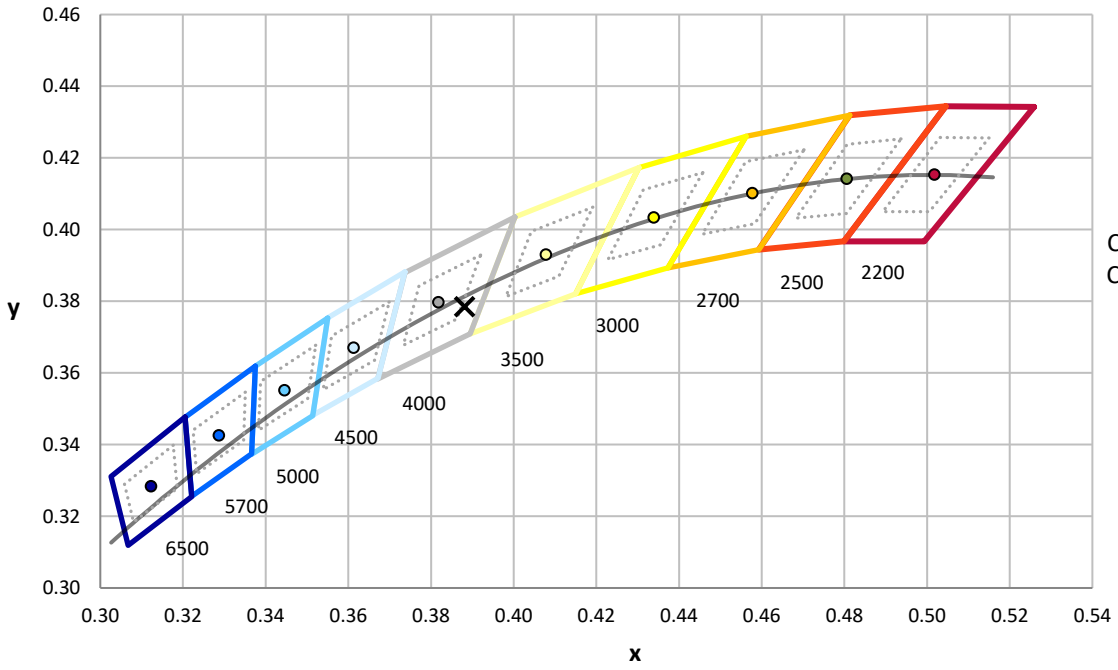
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2601-659-2

CIE 1931 Chromaticity Diagram



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

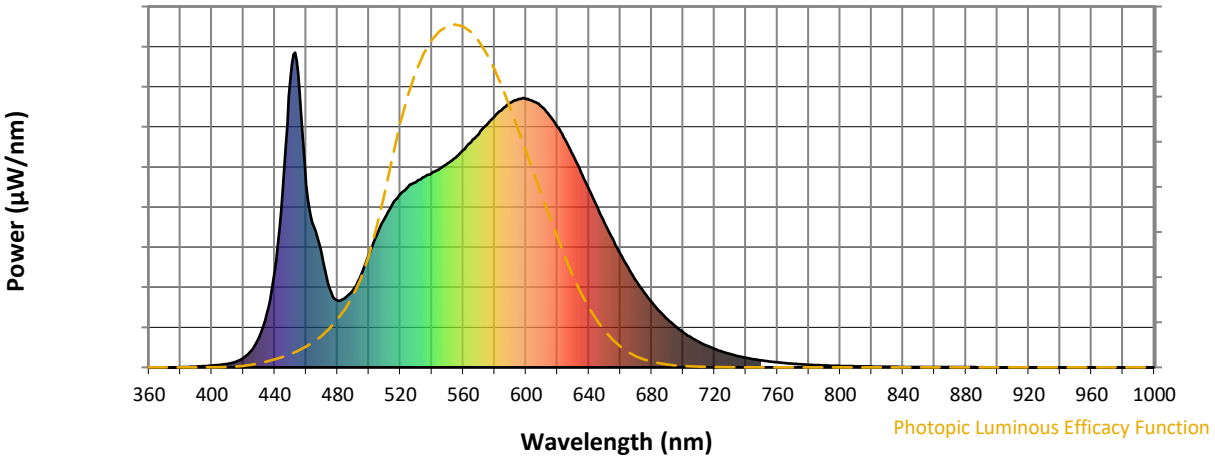


CCT = 3810K
CIE x = 0.3881
CIE y = 0.3785
Duv = -0.0013

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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

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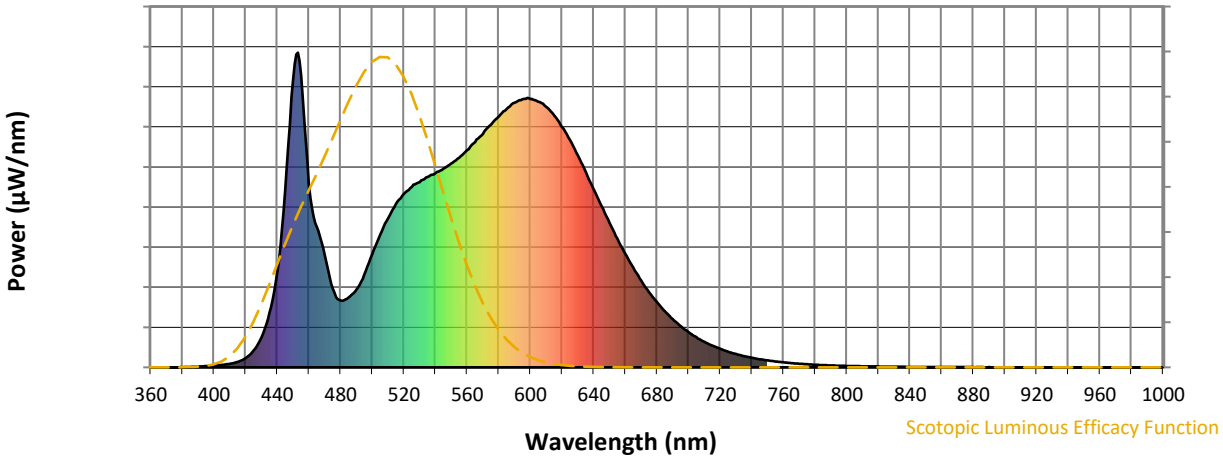
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.64**

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

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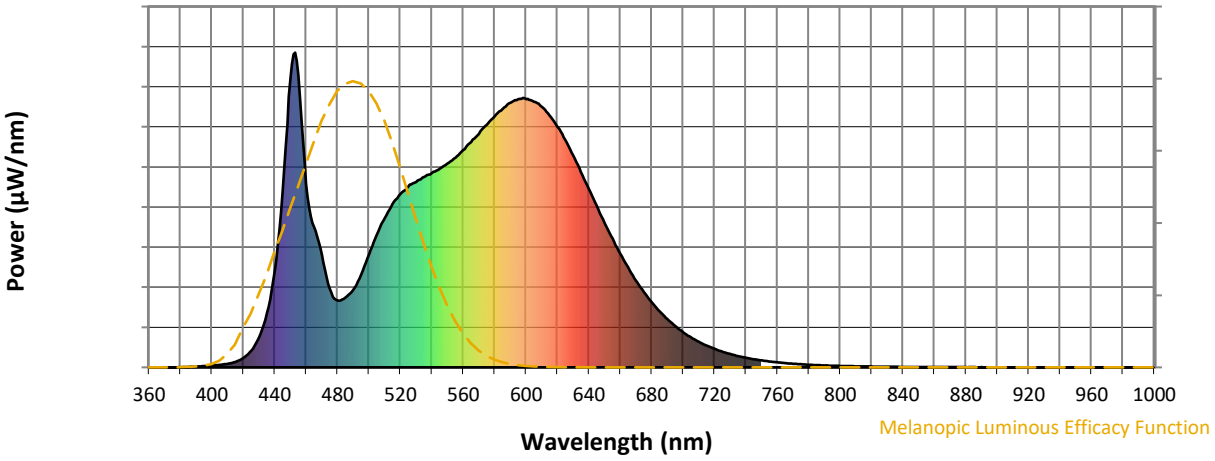
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.35**

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

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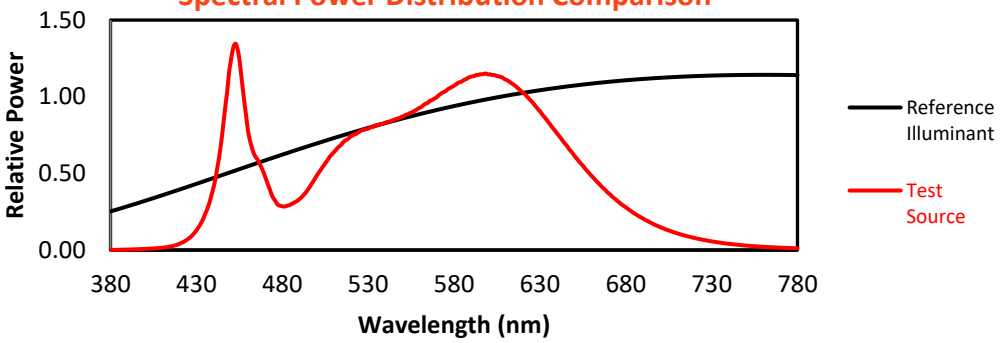
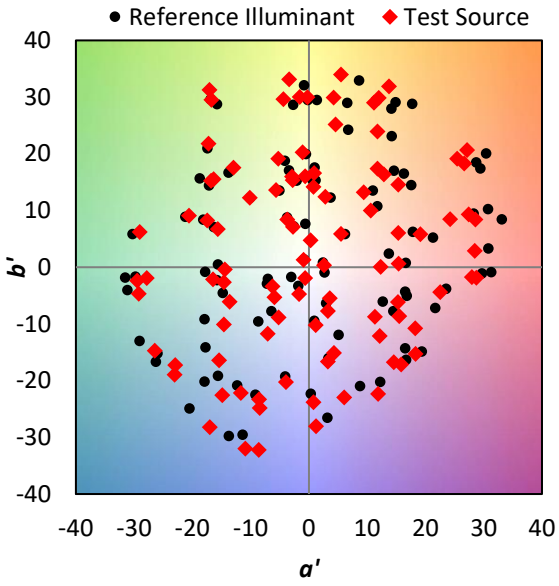
Summary

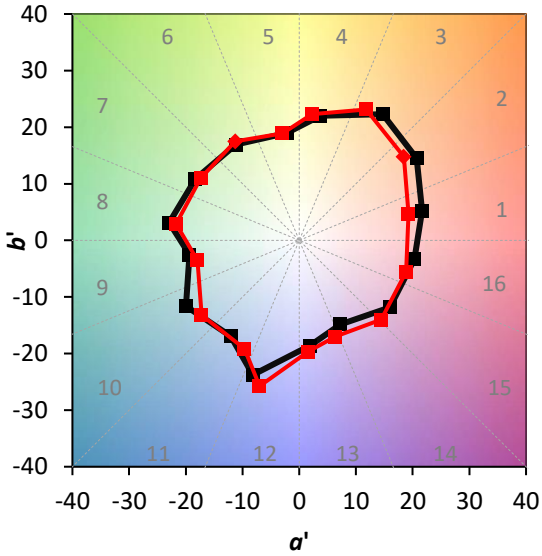
R_f = 84.4
R_g = 96.5
CIE R_a = 84.5
R_9 = 15.9

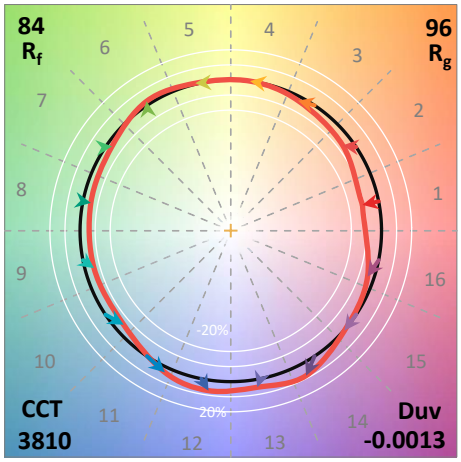
Spectral Power Distribution Comparison

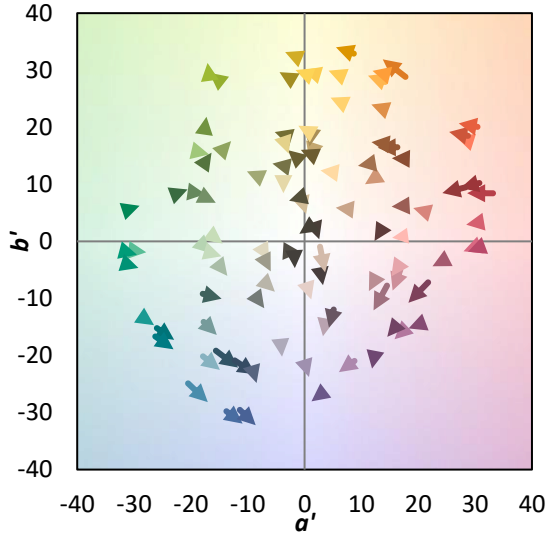


Color Vector Graphics









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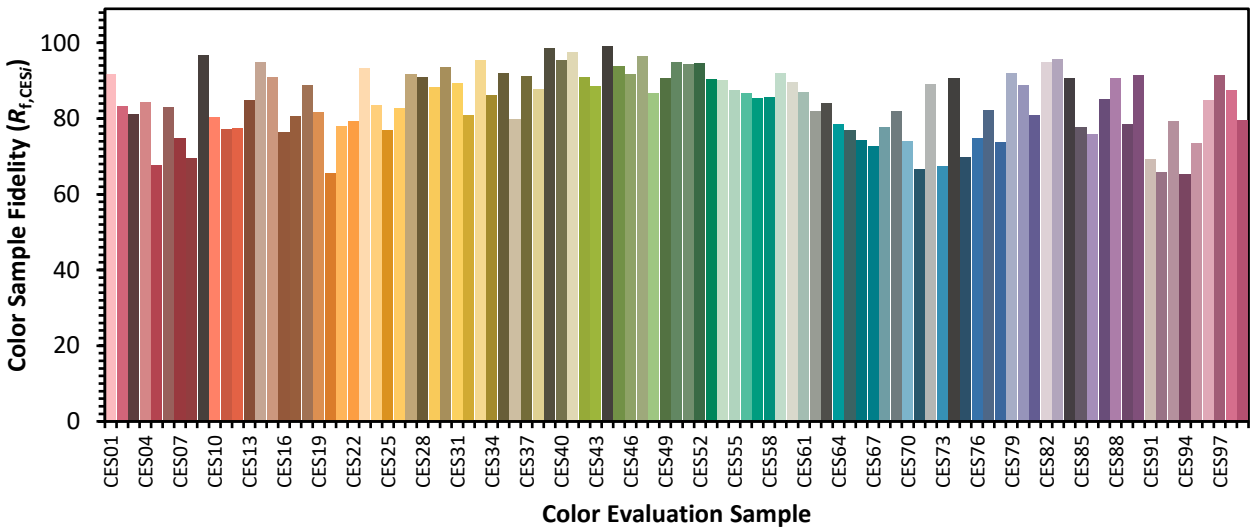
Individual Sample Fidelity Index ($R_{f,i}$)

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



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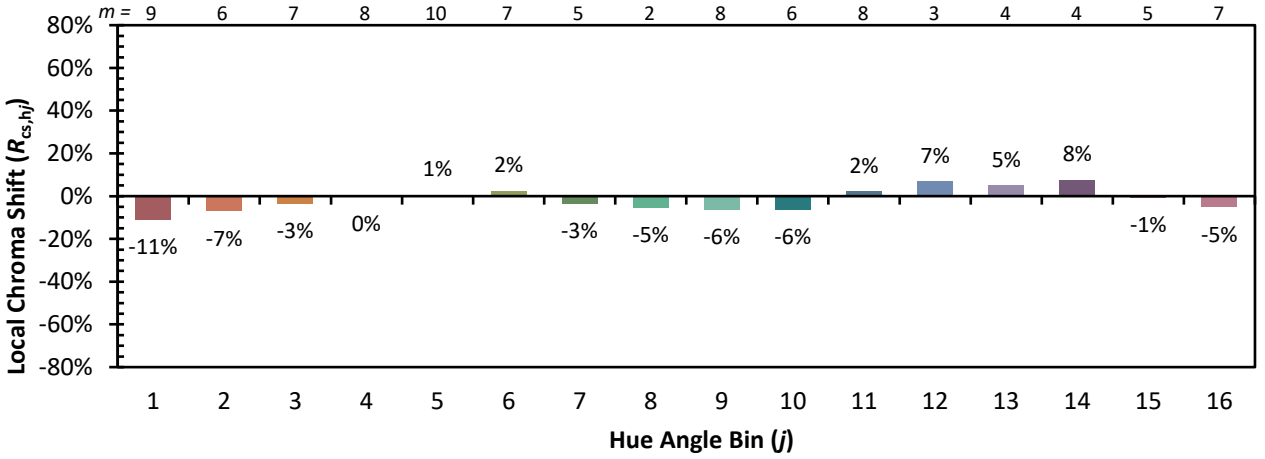
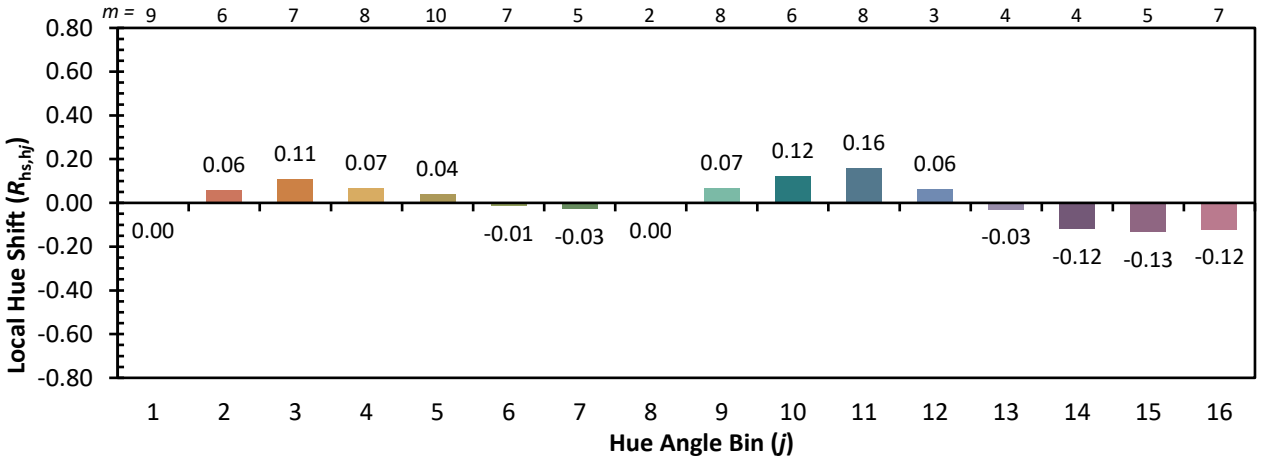
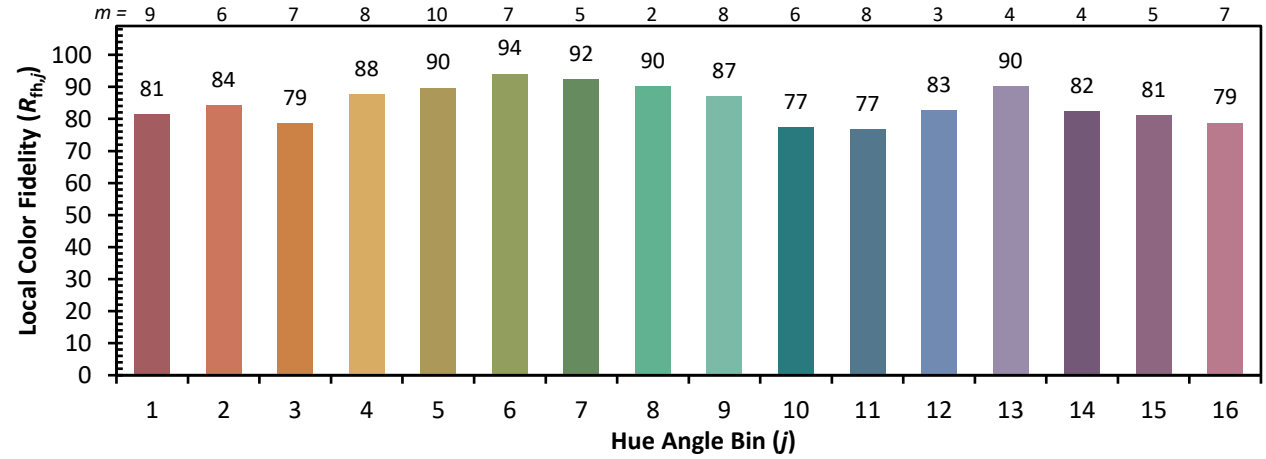
Color Rendition by Hue-Angle Bin







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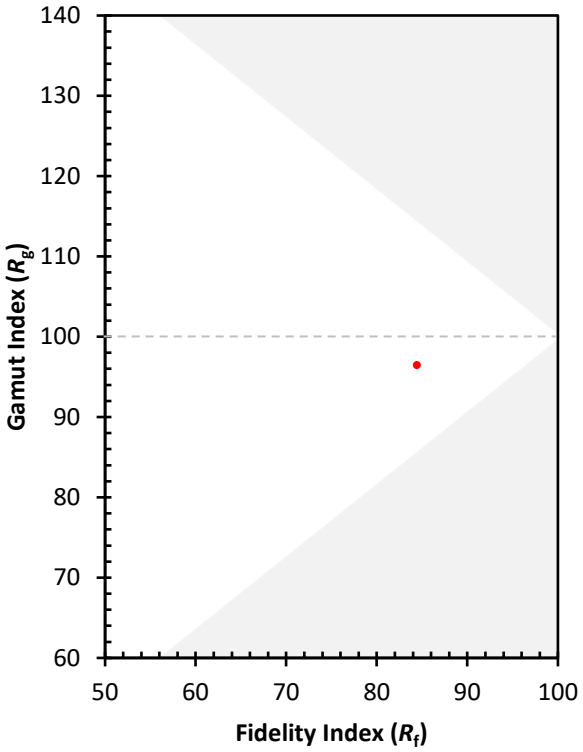
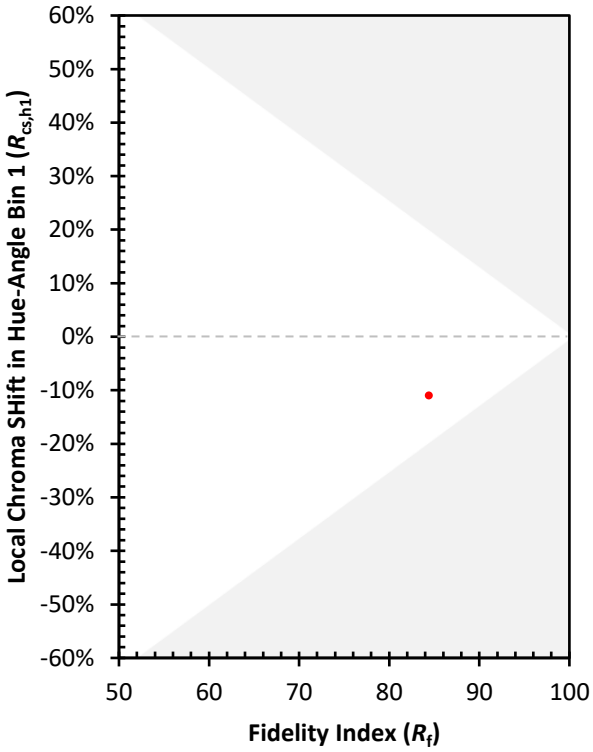
Measure Comparisons





(END OF REPORT)