

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: P1449871

Luminaire Tested: **TWC150_T3_60W_5000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TWC150_T3_60W_5000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 60W
5000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10457 lumens
Efficiency: N/A
Efficacy: 185.7 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 0.42' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

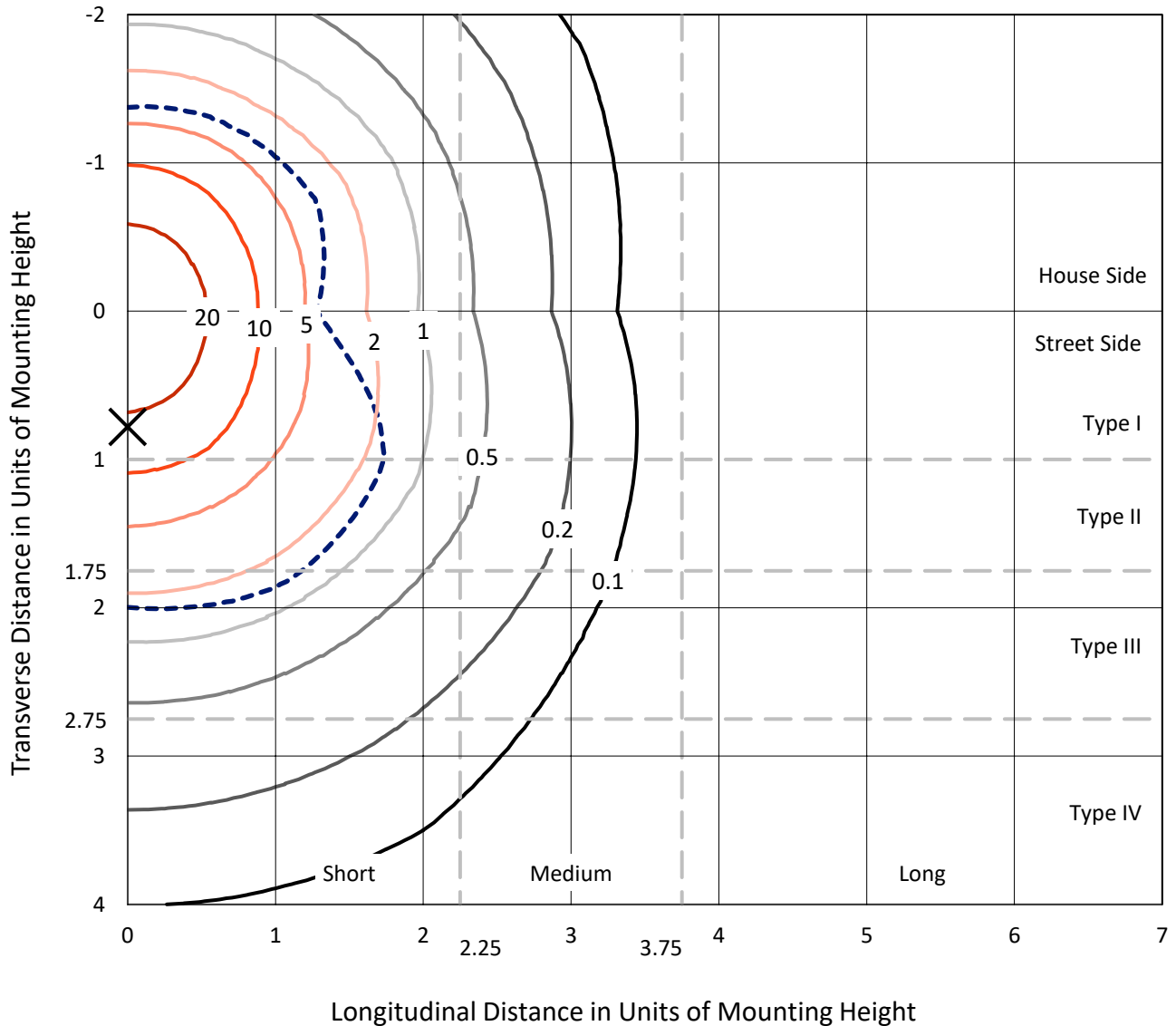
Input Watts (W): 56.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

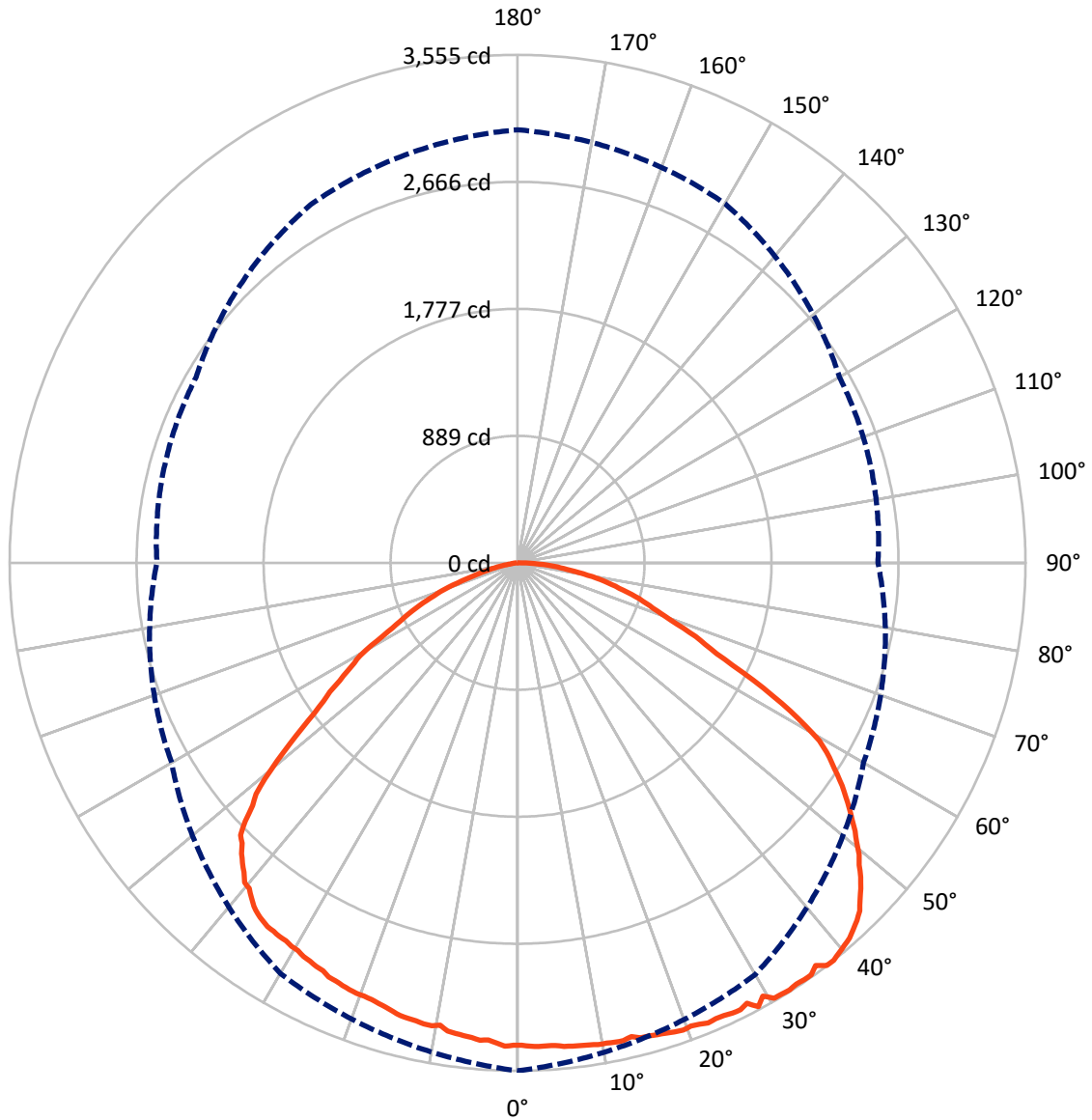
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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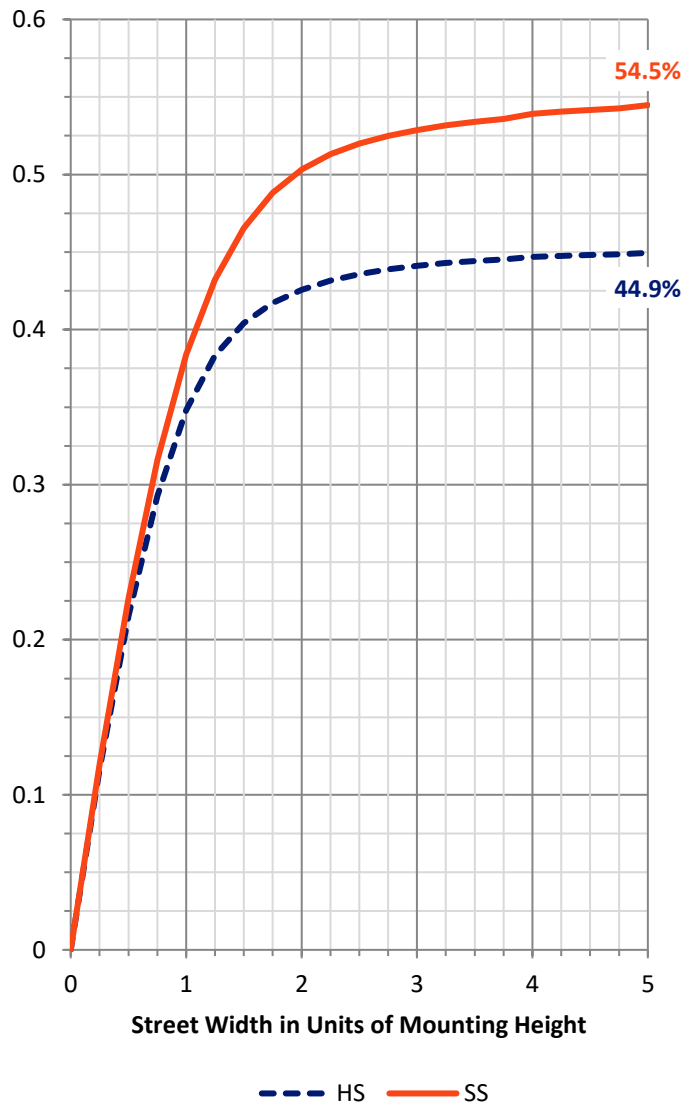
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4722.1	0.0	4722.1
	% Fixture	45.2	0.0	45.2
Street Side	Lumens	5734.9	0.0	5734.9
	% Fixture	54.8	0.0	54.8
Total	Lumens	10457.0	0.0	10457.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	3.1
10°-20°	931.6	8.9
20°-30°	1461.1	14.0
30°-40°	1864.4	17.8
40°-50°	2057.1	19.7
50°-60°	1853.1	17.7
60°-70°	1262.3	12.1
70°-80°	572.4	5.5
80°-90°	134.5	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10457.0	100.0
0°-180°	10457.0	100.0

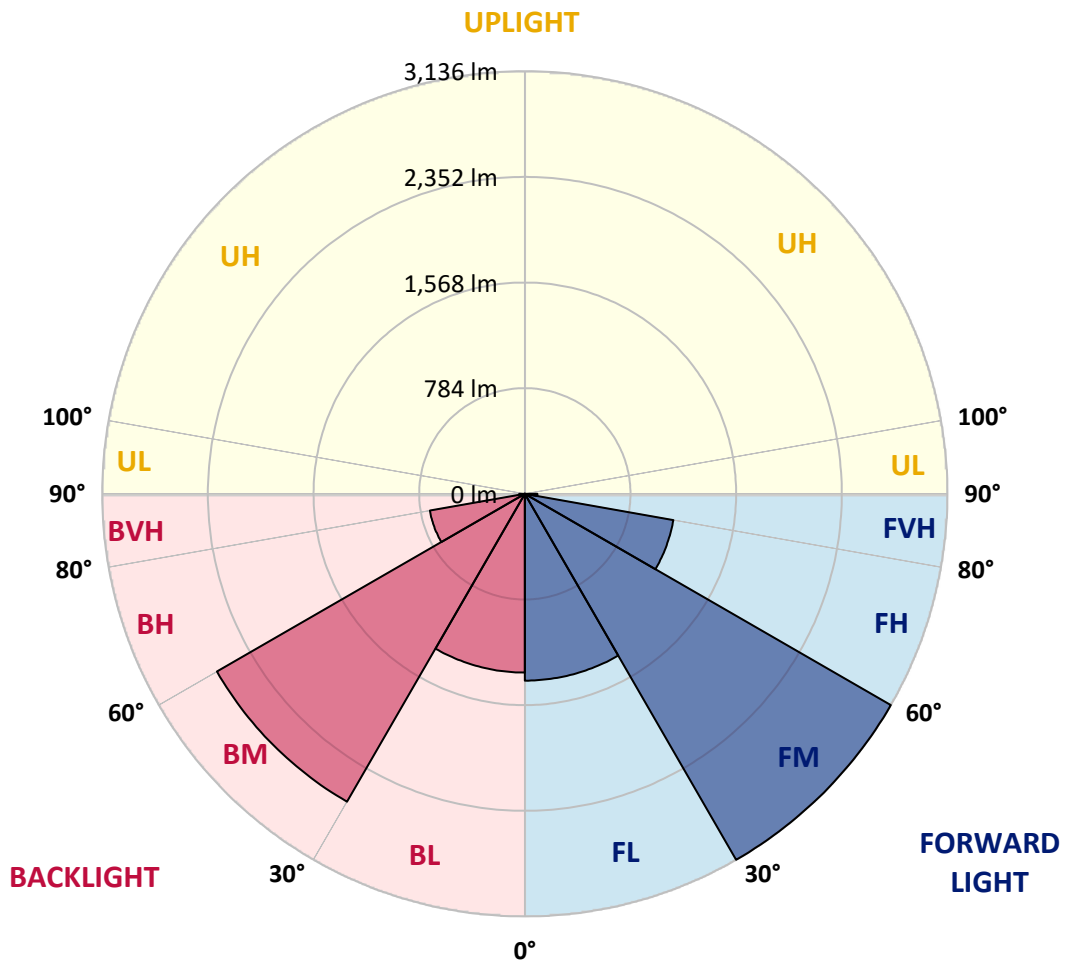


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1386.5	13.3			
FM	(30°-60°)	3136.2	30.0			
FH	(60°-80°)	1119.3	10.7			G1/1800
FVH	(80°-90°)	92.9	0.9			G1/100
BL	(0°-30°)	1326.6	12.7	B3/2500		
BM	(30°-60°)	2638.5	25.2	B3/5000		
BH	(60°-80°)	715.5	6.8	B2/1000		G2/1000
BVH	(80°-90°)	41.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6
1°	3384.3	3395.4	3381.4	3371.4	3374.3	3376.8	3376.8	3365.3	3374.4	3375.6	3379.4
2°	3388.0	3392.6	3398.7	3378.4	3382.1	3368.0	3384.2	3377.7	3370.6	3327.2	3384.2
3°	3386.1	3399.6	3388.7	3369.1	3367.0	3370.1	3363.6	3359.4	3365.4	3372.5	3382.4
4°	3387.6	3387.0	3388.6	3370.5	3365.3	3352.1	3344.4	3355.5	3359.6	3377.3	3375.6
5°	3399.3	3384.7	3374.3	3389.9	3349.2	3341.8	3352.1	3349.8	3353.1	3369.7	3373.1
6°	3403.5	3386.3	3374.3	3352.5	3340.0	3332.1	3337.9	3341.1	3344.8	3386.7	3371.0
7°	3407.7	3388.6	3364.8	3342.2	3331.7	3325.2	3329.6	3342.7	3339.5	3343.2	3365.9
8°	3411.0	3392.5	3359.3	3328.8	3323.6	3318.6	3322.5	3338.6	3326.3	3339.5	3361.3
9°	3418.4	3398.3	3358.9	3317.0	3309.8	3270.4	3313.3	3317.5	3319.2	3328.7	3366.7
10°	3418.7	3395.6	3317.7	3312.5	3298.4	3295.2	3280.4	3305.3	3301.6	3316.4	3359.0
11°	3423.6	3400.8	3343.9	3304.4	3290.4	3284.6	3295.3	3290.9	3302.9	3315.8	3340.1
12°	3424.7	3399.6	3336.5	3298.0	3279.8	3279.0	3292.1	3307.7	3272.5	3282.9	3324.4
13°	3409.4	3395.6	3348.3	3273.6	3264.1	3267.9	3283.6	3274.4	3255.9	3268.8	3316.5
14°	3432.7	3402.1	3319.6	3260.3	3234.9	3265.4	3279.2	3228.7	3242.1	3256.7	3308.3
15°	3436.7	3382.8	3303.9	3236.8	3220.2	3256.9	3273.4	3244.5	3191.4	3239.3	3299.7
16°	3443.2	3435.2	3289.9	3216.5	3210.7	3241.6	3259.0	3241.8	3202.6	3228.6	3290.7
17°	3451.9	3410.8	3275.4	3208.1	3182.5	3228.6	3244.0	3225.1	3187.0	3206.6	3286.0
18°	3460.9	3393.5	3258.1	3205.8	3163.5	3204.6	3232.9	3207.6	3169.3	3177.5	3269.9
19°	3469.5	3397.8	3244.6	3158.3	3146.3	3188.3	3222.1	3202.8	3152.3	3169.3	3255.7
20°	3461.0	3397.8	3231.8	3138.7	3128.2	3172.2	3217.0	3198.9	3126.2	3152.1	3235.7
21°	3470.4	3393.5	3219.1	3115.1	3109.3	3196.9	3217.3	3175.9	3102.0	3118.5	3190.7
22°	3485.5	3348.1	3201.7	3094.6	3084.5	3157.4	3209.6	3163.5	3085.8	3094.1	3207.3
23°	3479.1	3378.9	3180.8	3067.8	3064.2	3150.5	3201.8	3140.1	3057.6	3067.6	3191.1
24°	3480.9	3379.8	3165.9	3039.1	3031.9	3140.9	3189.8	3131.3	3031.4	3043.5	3165.2
25°	3491.4	3377.5	3153.2	3015.1	2999.2	3119.7	3185.8	3114.2	3011.2	3015.5	3144.7
26°	3495.1	3366.7	3089.4	2986.1	2978.1	3103.9	3163.5	3126.0	2977.8	2990.6	3116.0
27°	3475.6	3364.8	3057.7	2962.1	2952.2	3092.0	3156.5	3085.8	2952.0	2959.1	3091.3
28°	3534.5	3360.9	3099.7	2918.1	2923.8	3064.5	3142.8	3069.5	2921.2	2924.6	3067.9
29°	3483.1	3356.8	3044.8	2905.1	2896.7	3057.1	3136.6	3051.5	2897.6	2892.5	3059.1
30°	3536.8	3363.7	3014.1	2849.0	2871.4	3041.2	3119.2	3033.9	2867.6	2861.1	3028.1
31°	3539.5	3362.7	2995.6	2814.0	2843.1	3028.5	3115.0	3017.2	2853.1	2822.3	2999.7
32°	3543.2	3362.3	2968.1	2777.2	2819.5	3001.9	3102.2	3003.7	2816.6	2786.6	2987.8
33°	3535.2	3357.6	2946.8	2741.6	2788.8	2992.5	3101.6	2992.1	2785.2	2736.7	2946.4
34°	3541.0	3346.3	2940.6	2699.0	2751.7	2975.0	3092.0	2980.3	2751.9	2693.9	2916.3
35°	3540.8	3334.5	2861.3	2656.5	2717.8	2961.6	3088.9	2959.5	2709.0	2655.5	2883.7
36°	3505.2	3335.5	2852.4	2614.0	2673.5	2942.9	3074.0	2928.2	2674.1	2610.0	2861.8
37°	3553.1	3327.2	2823.6	2565.6	2635.3	2921.6	3056.4	2914.6	2635.8	2571.8	2828.8
38°	3554.5	3325.8	2795.5	2521.6	2600.3	2902.1	3029.9	2894.9	2597.6	2524.0	2795.9
39°	3536.9	3307.7	2766.4	2474.5	2563.3	2876.8	2993.6	2876.7	2570.2	2484.3	2769.8
40°	3522.4	3299.7	2739.4	2433.4	2533.8	2847.2	2952.7	2851.4	2531.5	2436.8	2738.2
41°	3505.5	3287.9	2711.9	2386.3	2499.6	2818.0	2940.9	2830.9	2495.2	2387.4	2708.3
42°	3478.5	3270.4	2679.1	2330.5	2462.4	2780.4	2889.8	2796.2	2453.7	2337.4	2682.0
43°	3450.5	3262.0	2651.6	2284.2	2424.5	2741.4	2849.0	2761.3	2414.7	2283.1	2651.9
44°	3415.5	3251.8	2614.2	2233.2	2387.3	2703.5	2805.1	2724.0	2377.0	2234.6	2619.1



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3360.7	3221.2	2586.7	2179.3	2341.1	2662.3	2750.7	2672.4	2344.6	2180.2	2587.6
46°	3311.3	3183.6	2556.7	2124.1	2298.6	2614.1	2717.7	2629.1	2299.4	2124.1	2558.4
47°	3256.3	3146.0	2525.1	2071.4	2258.1	2555.7	2628.0	2587.2	2250.0	2072.4	2517.6
48°	3192.5	3102.2	2490.8	2014.5	2208.7	2503.1	2514.5	2537.6	2204.9	2013.2	2484.3
49°	3143.1	3052.4	2463.9	1927.5	2159.2	2443.1	2443.4	2451.1	2164.9	1960.3	2460.4
50°	3075.2	2972.2	2433.6	1892.4	2104.5	2375.2	2323.5	2420.4	2105.8	1900.7	2431.5
51°	3017.4	2924.4	2406.8	1835.5	2054.7	2294.1	2180.5	2343.2	2053.9	1845.5	2408.6
52°	2949.7	2858.4	2384.8	1776.3	1999.0	2165.0	2038.0	2254.5	2001.0	1784.9	2381.7
53°	2888.6	2784.2	2360.4	1714.1	1946.7	2039.0	1900.2	2138.8	1965.7	1723.4	2351.9
54°	2822.3	2706.9	2334.4	1651.3	1893.2	1906.8	1768.8	2012.4	1886.8	1649.3	2319.9
55°	2755.2	2647.3	2304.6	1587.5	1837.6	1765.6	1669.1	1872.3	1827.0	1595.2	2298.0
56°	2681.7	2588.7	2268.6	1514.9	1765.9	1643.5	1592.3	1749.9	1772.5	1519.5	2268.5
57°	2608.2	2523.7	2237.9	1448.5	1704.8	1541.1	1493.0	1612.5	1711.4	1454.6	2237.2
58°	2537.5	2445.4	2186.5	1384.5	1643.5	1452.4	1410.8	1510.6	1650.3	1387.6	2217.1
59°	2449.6	2369.4	2132.0	1320.9	1581.7	1362.8	1340.8	1431.2	1588.8	1324.3	2147.9
60°	2315.3	2295.7	2070.1	1250.7	1517.8	1287.2	1277.9	1359.4	1524.8	1257.2	2085.3
61°	2170.9	2228.2	2002.1	1187.7	1453.6	1231.7	1176.0	1272.2	1460.7	1194.1	2019.6
62°	2013.1	2139.2	1920.6	1125.2	1383.1	1167.8	1072.1	1206.1	1392.8	1121.5	1944.0
63°	1843.6	2022.3	1822.8	1065.1	1299.4	1084.3	988.2	1150.6	1320.4	1060.8	1857.7
64°	1665.4	1885.9	1725.5	999.4	1199.1	996.3	921.5	1069.9	1238.2	999.6	1756.0
65°	1532.4	1738.2	1623.6	937.2	1115.9	937.6	865.0	984.2	1148.7	938.4	1655.7
66°	1433.2	1559.0	1518.0	873.7	1012.1	891.2	807.8	921.6	1053.8	873.2	1556.9
67°	1349.6	1408.3	1413.3	807.1	915.0	844.1	745.8	877.2	937.0	810.4	1445.8
68°	1247.0	1287.9	1295.9	736.4	821.2	791.6	689.0	824.3	845.1	739.4	1333.0
69°	1142.8	1190.5	1195.5	670.1	748.3	740.4	626.5	779.8	760.4	677.8	1230.8
70°	1066.4	1109.4	1111.2	606.6	692.2	691.9	573.5	728.4	699.3	609.2	1135.2
71°	998.5	1015.8	1037.8	545.0	642.6	643.0	509.5	682.4	647.4	550.2	1071.3
72°	943.9	939.0	945.7	478.6	588.2	594.0	442.4	634.8	596.6	487.3	985.2
73°	889.3	880.0	827.7	423.2	546.5	542.1	378.0	586.4	548.4	427.2	875.4
74°	828.6	826.9	701.4	367.3	510.8	483.6	320.7	531.6	509.8	368.8	744.0
75°	763.2	769.7	572.8	315.8	473.0	412.0	277.3	472.4	477.6	318.2	616.8
76°	702.9	719.5	492.3	265.3	439.3	355.0	235.0	404.8	440.6	271.4	521.5
77°	646.7	665.2	438.3	222.0	407.4	307.5	198.0	350.9	410.7	223.7	460.1
78°	591.8	611.0	379.4	183.3	376.9	265.3	162.0	298.3	379.0	184.9	404.8
79°	530.7	569.1	330.4	150.2	347.2	222.3	126.2	254.1	350.1	152.2	346.5
80°	466.1	528.0	274.9	117.2	313.8	189.1	93.4	219.4	319.8	121.1	298.1
81°	400.4	482.3	229.6	92.8	282.6	155.5	62.1	185.9	288.2	95.2	246.8
82°	347.0	415.5	197.5	72.4	251.5	103.3	47.8	149.0	255.5	73.1	210.6
83°	303.9	331.2	173.6	53.6	215.0	45.8	35.9	86.9	223.8	56.5	181.6
84°	257.5	258.0	150.8	40.9	173.6	24.8	27.8	36.9	187.0	41.2	160.6
85°	208.9	214.0	130.2	29.5	142.0	17.4	18.8	23.0	150.0	30.0	140.2
86°	154.7	169.0	111.5	20.0	111.4	10.3	10.9	14.7	121.0	20.5	120.7
87°	115.0	121.3	89.2	13.3	65.7	7.0	0.0	8.6	83.6	13.0	104.5
88°	59.8	79.4	51.2	0.0	0.0	5.7	0.0	0.0	0.0	0.0	69.6
89°	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	25.7



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CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1449871
 CATALOG NUMBER: TWC150_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1449871
CATALOG NUMBER: TWC150_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1449871
CATALOG NUMBER: TWC150_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	3376.6	3376.6
1°	3376.4	3384.3
2°	3381.3	3388.0
3°	3380.4	3386.1
4°	3394.9	3387.6
5°	3393.6	3399.3
6°	3391.9	3403.5
7°	3392.3	3407.7
8°	3391.6	3411.0
9°	3384.4	3418.4
10°	3387.5	3418.7
11°	3402.6	3423.6
12°	3394.3	3424.7
13°	3422.2	3409.4
14°	3392.1	3432.7
15°	3385.6	3436.7
16°	3383.7	3443.2
17°	3383.6	3451.9
18°	3390.6	3460.9
19°	3389.7	3469.5
20°	3390.1	3461.0
21°	3362.2	3470.4
22°	3373.2	3485.5
23°	3369.7	3479.1
24°	3342.2	3480.9
25°	3371.5	3491.4
26°	3384.4	3495.1
27°	3361.5	3475.6
28°	3359.5	3534.5
29°	3364.3	3483.1
30°	3353.0	3536.8
31°	3348.1	3539.5
32°	3354.7	3543.2
33°	3342.0	3535.2
34°	3337.6	3541.0
35°	3329.6	3540.8
36°	3321.3	3505.2
37°	3312.5	3553.1
38°	3318.4	3554.5
39°	3283.9	3536.9
40°	3300.1	3522.4
41°	3287.0	3505.5
42°	3271.7	3478.5
43°	3251.8	3450.5
44°	3271.5	3415.5



REPORT NUMBER: P1449871
CATALOG NUMBER: TWC150_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3216.0	3360.7
46°	3196.3	3311.3
47°	3170.8	3256.3
48°	3129.4	3192.5
49°	3083.7	3143.1
50°	3023.6	3075.2
51°	2963.2	3017.4
52°	2896.3	2949.7
53°	2824.2	2888.6
54°	2755.2	2822.3
55°	2689.6	2755.2
56°	2621.4	2681.7
57°	2560.7	2608.2
58°	2488.5	2537.5
59°	2416.9	2449.6
60°	2341.7	2315.3
61°	2269.7	2170.9
62°	2184.5	2013.1
63°	2107.5	1843.6
64°	1977.1	1665.4
65°	1830.8	1532.4
66°	1675.9	1433.2
67°	1498.3	1349.6
68°	1378.4	1247.0
69°	1263.1	1142.8
70°	1170.0	1066.4
71°	1081.9	998.5
72°	987.3	943.9
73°	919.5	889.3
74°	866.0	828.6
75°	812.9	763.2
76°	758.9	702.9
77°	706.0	646.7
78°	656.3	591.8
79°	602.3	530.7
80°	552.6	466.1
81°	519.3	400.4
82°	468.7	347.0
83°	401.7	303.9
84°	308.1	257.5
85°	247.8	208.9
86°	206.6	154.7
87°	159.1	115.0
88°	114.4	59.8
89°	67.6	0.0



REPORT NUMBER: P1449871
CATALOG NUMBER: TWC150_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1449871
CATALOG NUMBER: TWC150_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

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

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

Scaled Data Report



REPORT NUMBER: P1449871
CATALOG NUMBER: TWC150_T3_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-3

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-5000K

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

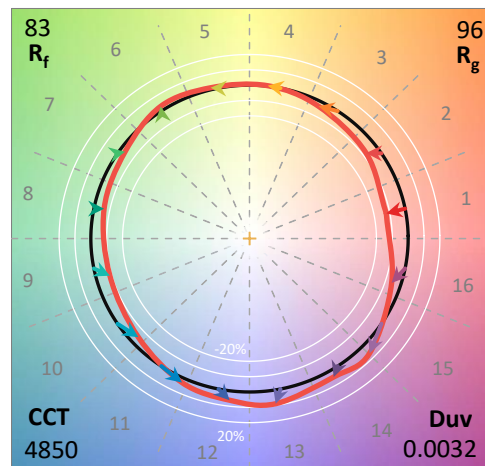
Test Information

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

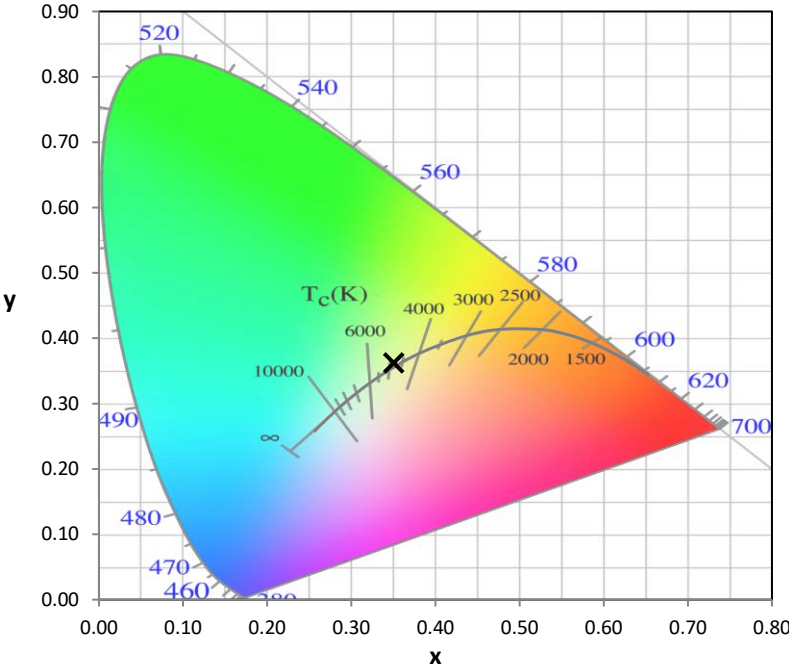
Stabilization Time: 25M
 Operation Time: 1H 25M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

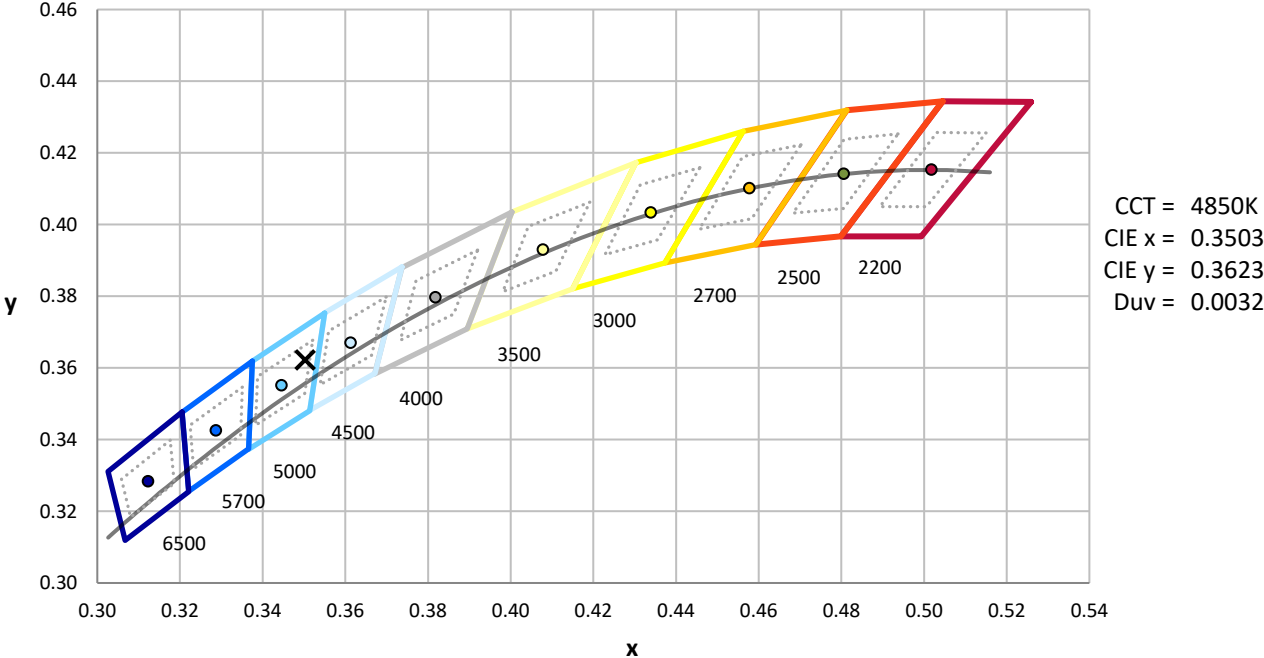
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



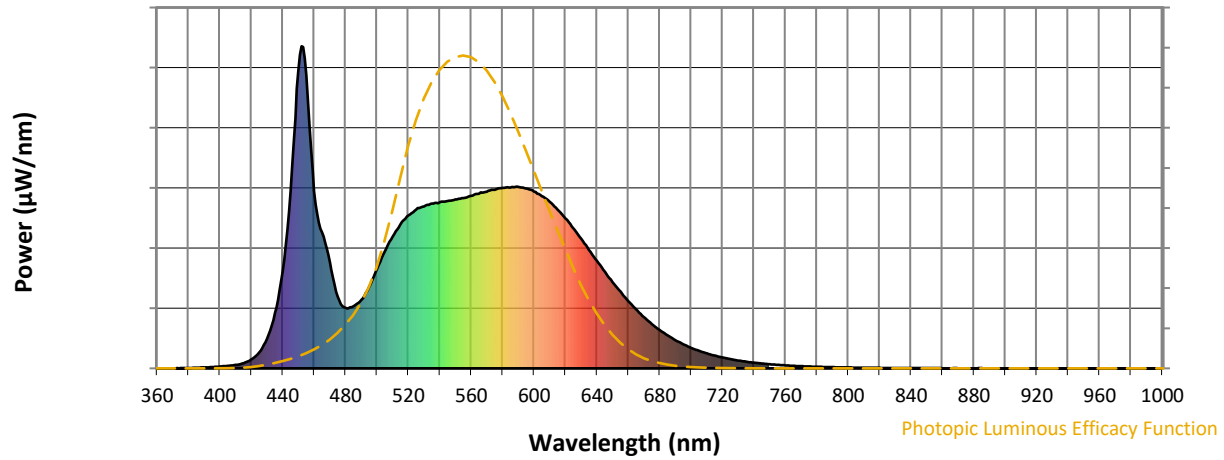
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

Photopic Flux vs. Wavelength

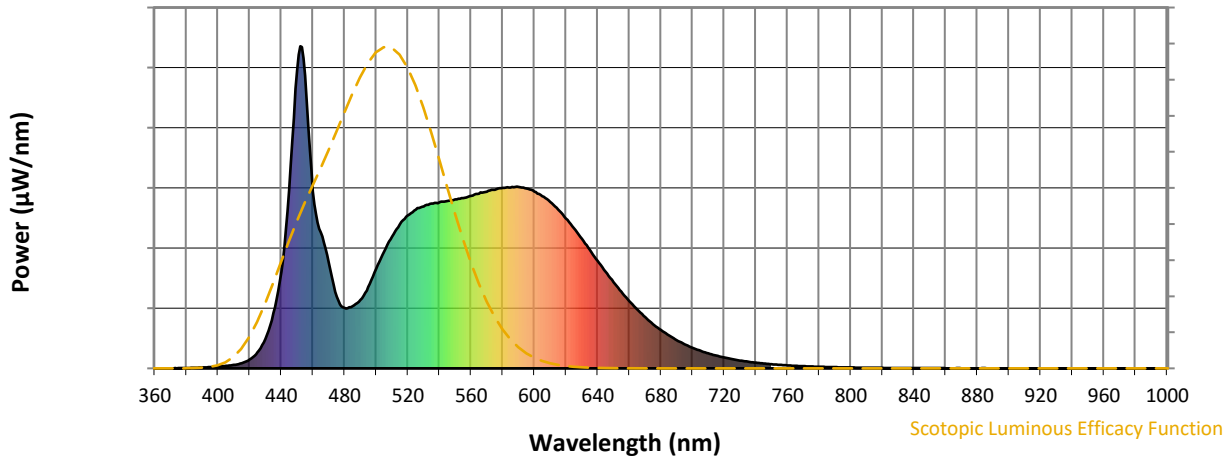


Photopic Lumens: NR

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



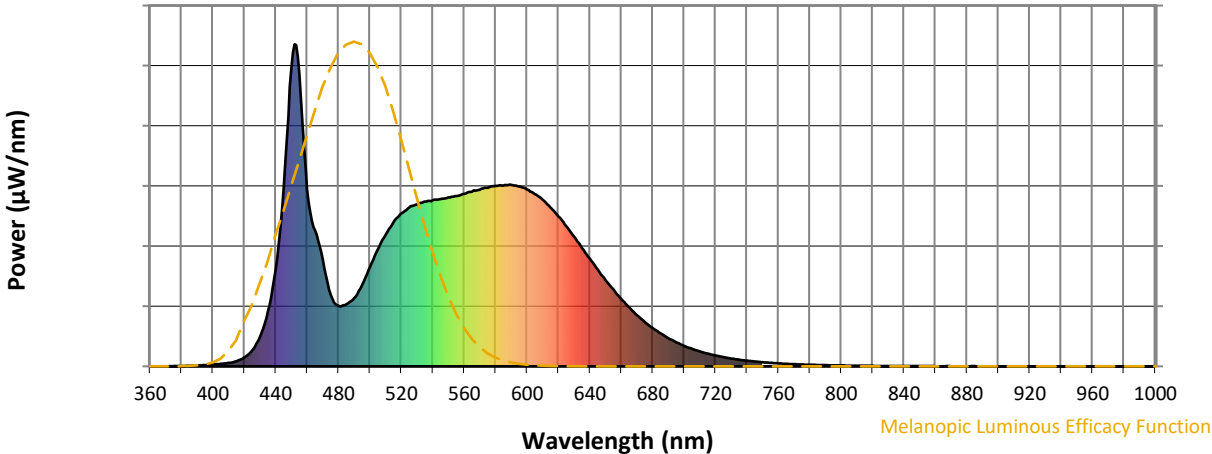
Scotopic Lumens: NR

S/P: 1.9

λ (nm)	Power W [^] /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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Melanopic Flux vs. Wavelength



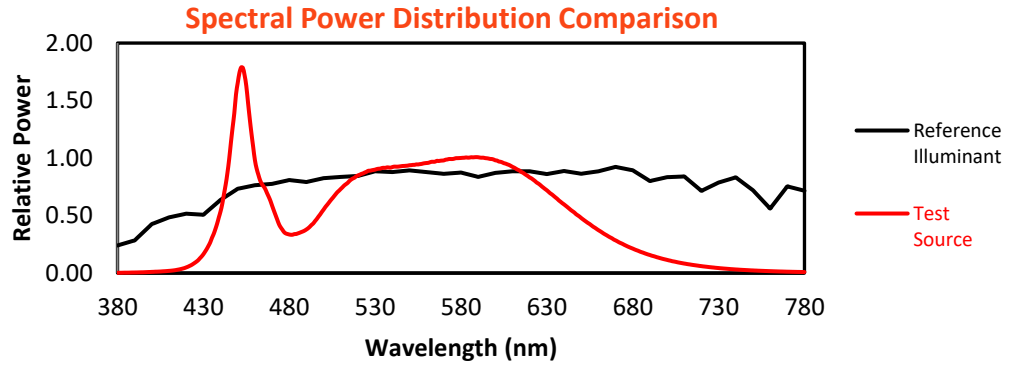
Melanopic Lumens: NR

M/P: 4

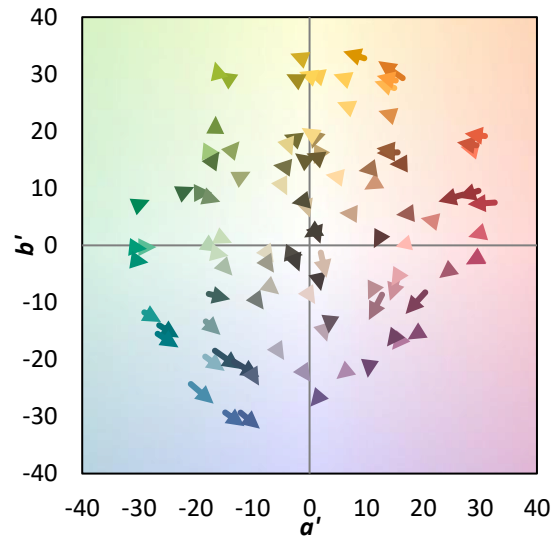
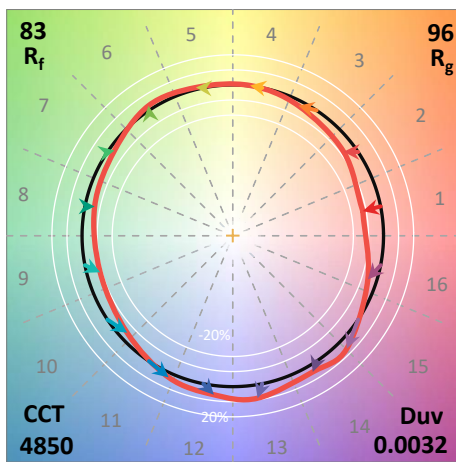
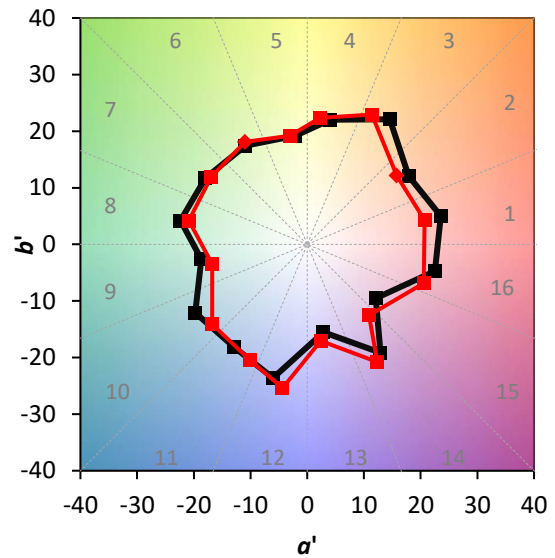
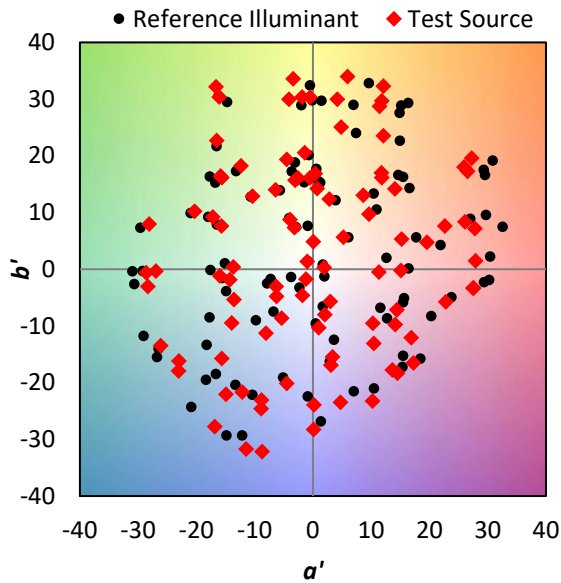
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309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

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

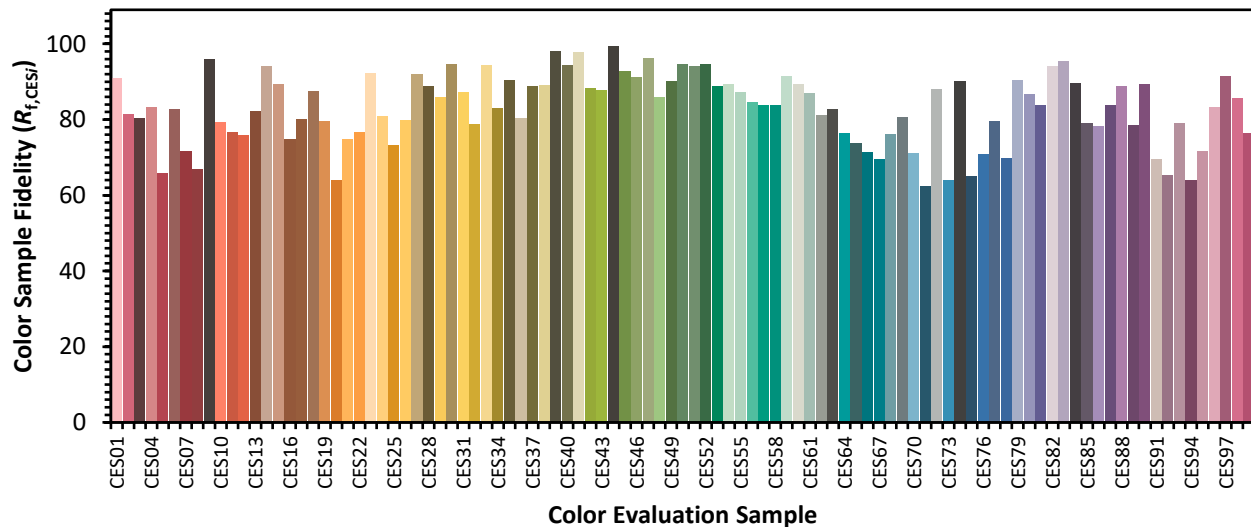


Color Vector Graphics

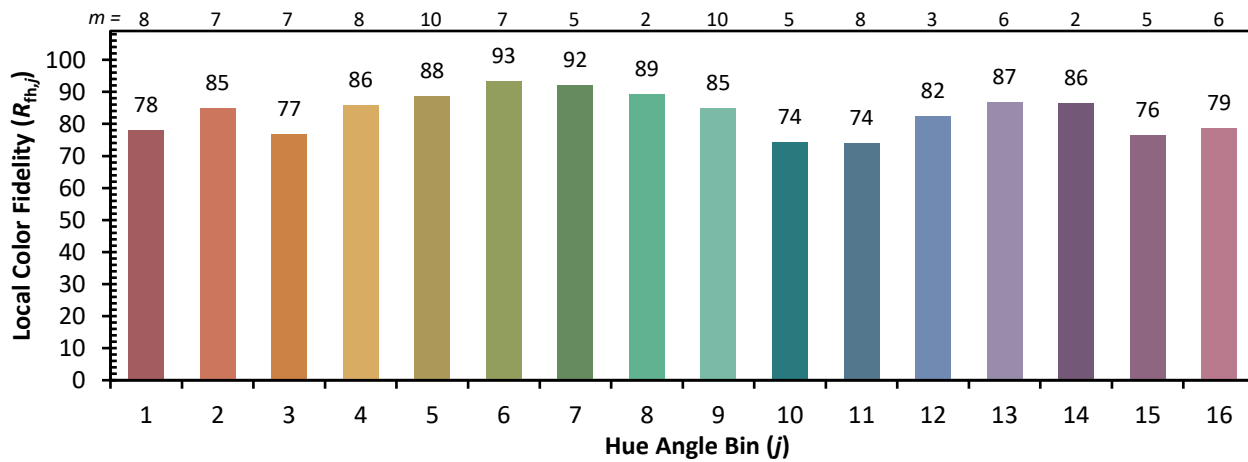
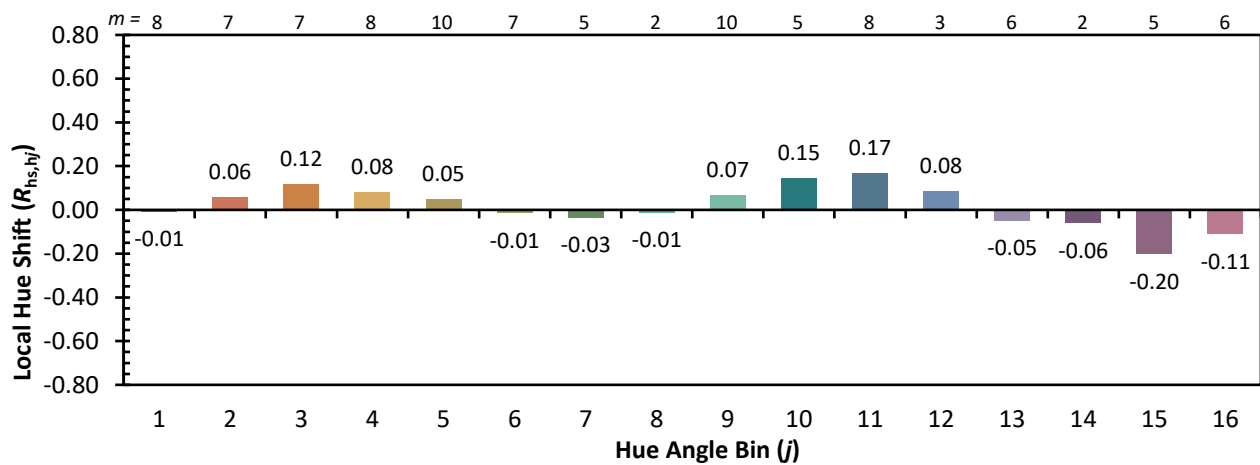
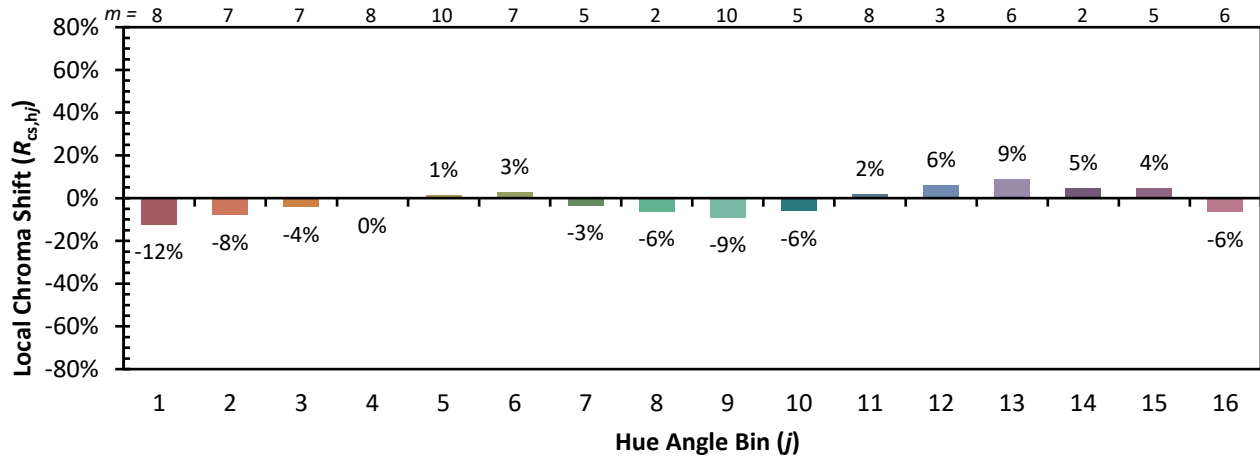


Individual Sample Fidelity Index ($R_{f,i}$)

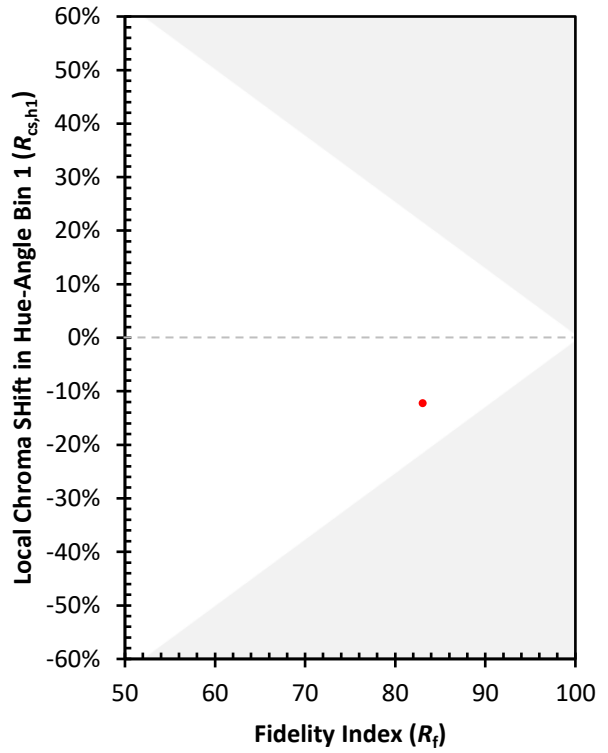
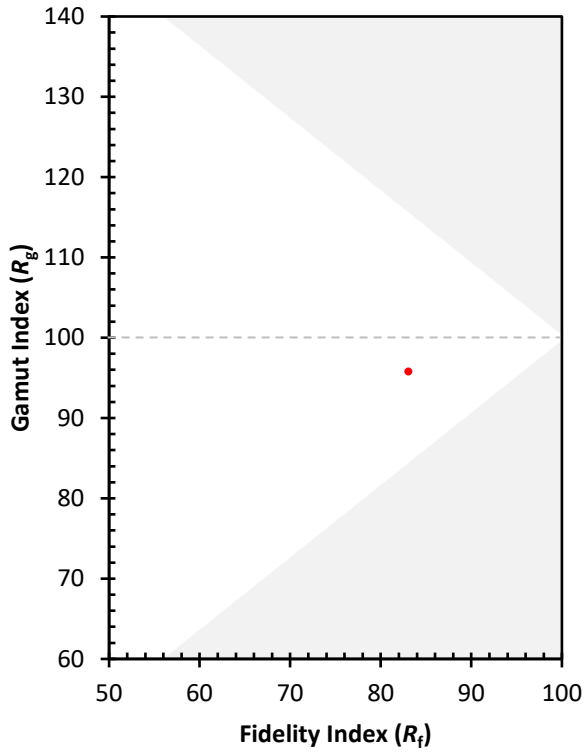
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82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