

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: P1449844

Luminaire Tested: **TWC100\_T4\_40W\_5000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449844  
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\_40W\_5000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 40W  
5000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13149 lumens  
Efficiency: N/A  
Efficacy: 167.5 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

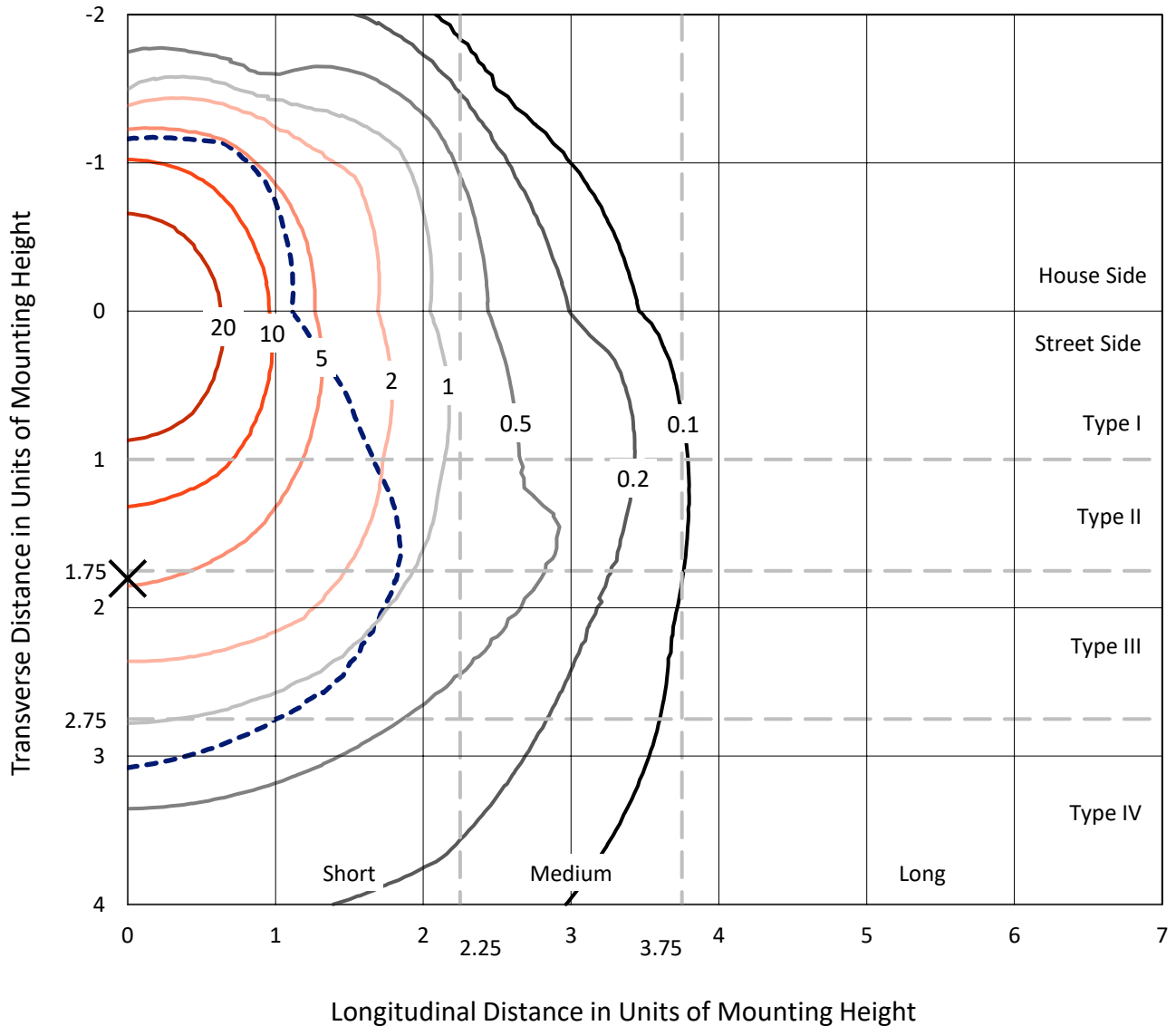
Input Watts (W): 78.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

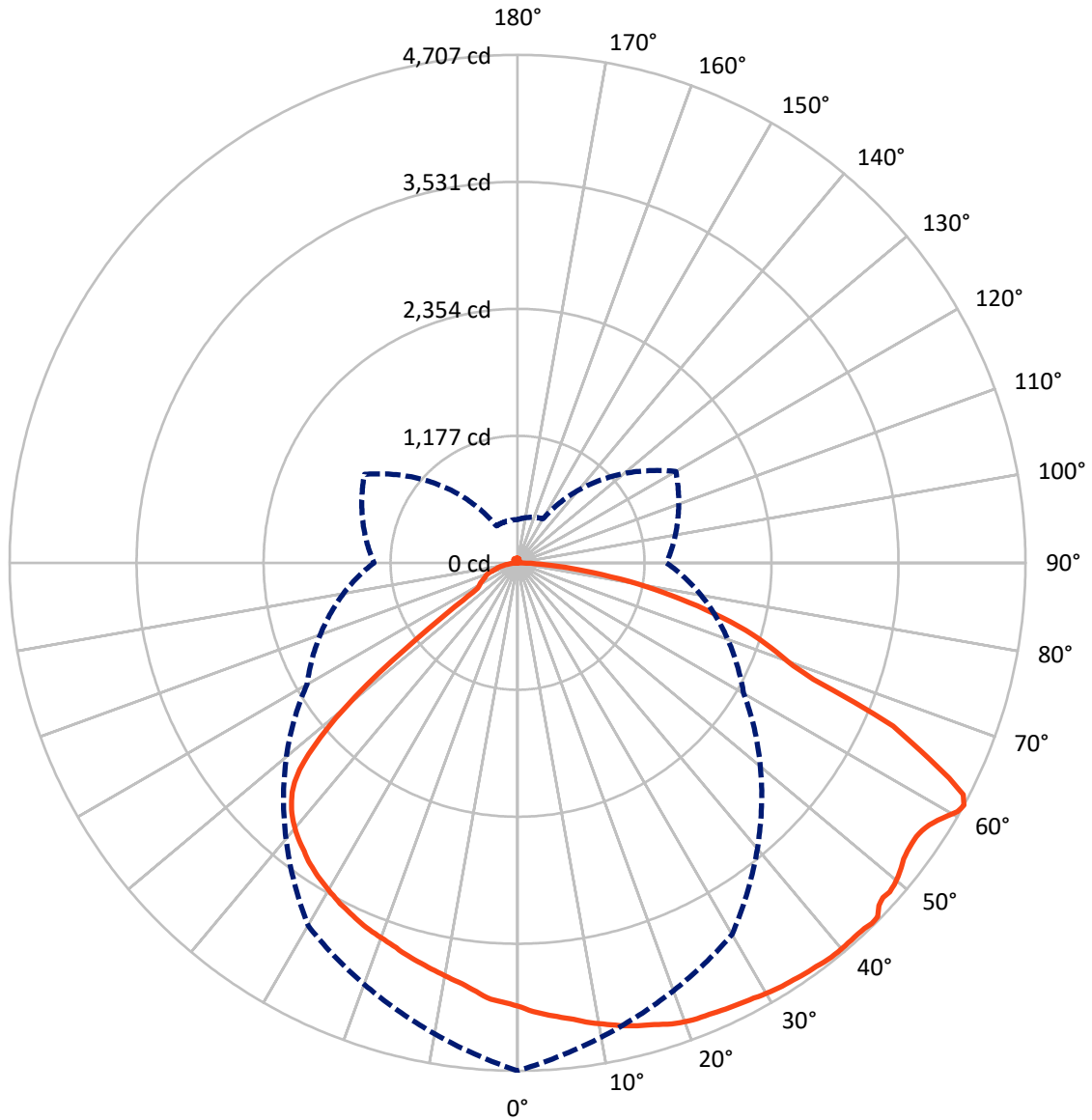
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 41.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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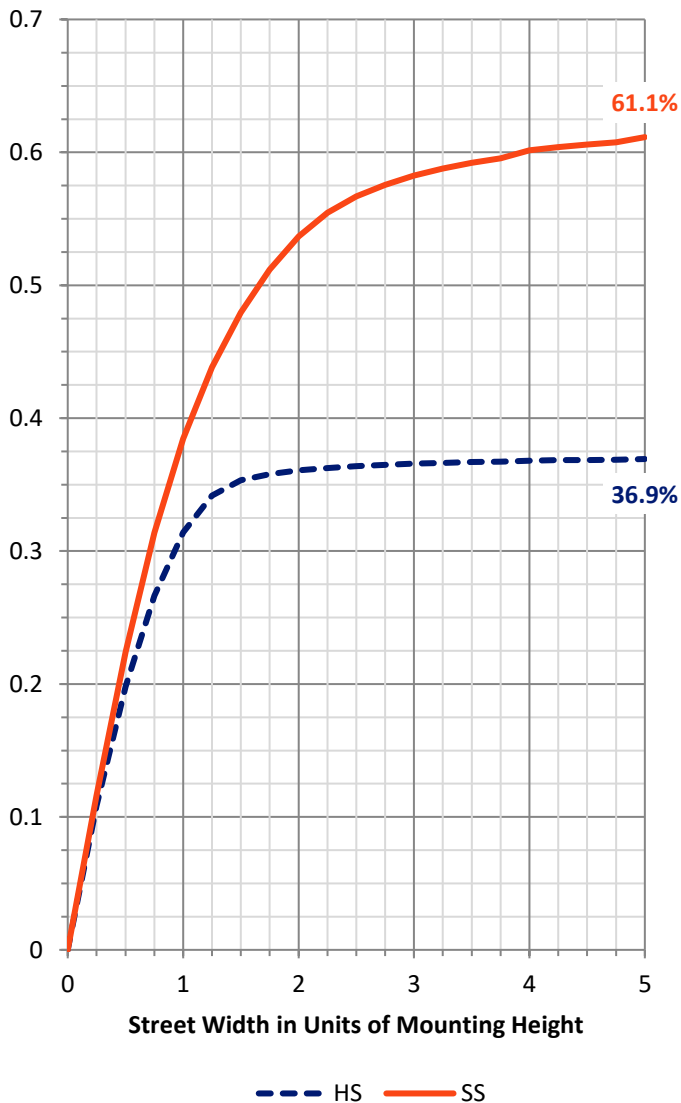
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4890.6	87.3	4977.9
	% Fixture	37.2	0.7	37.9
<b>Street Side</b>	Lumens	8116.4	54.7	8171.1
	% Fixture	61.7	0.4	62.1
<b>Total</b>	Lumens	13007.0	142.0	13149.0
	% Fixture	98.9	1.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.4	3.0
10°-20°	1138.6	8.7
20°-30°	1776.9	13.5
30°-40°	2244.0	17.1
40°-50°	2473.9	18.8
50°-60°	2234.9	17.0
60°-70°	1688.4	12.8
70°-80°	854.4	6.5
80°-90°	204.6	1.6
90°-100°	7.6	0.1
100°-110°	13.3	0.1
110°-120°	19.0	0.1
120°-130°	22.9	0.2
130°-140°	23.9	0.2
140°-150°	22.0	0.2
150°-160°	17.7	0.1
160°-170°	11.5	0.1
170°-180°	4.0	0.0
0°-90°	13007.0	98.9
0°-180°	13149.0	100.0

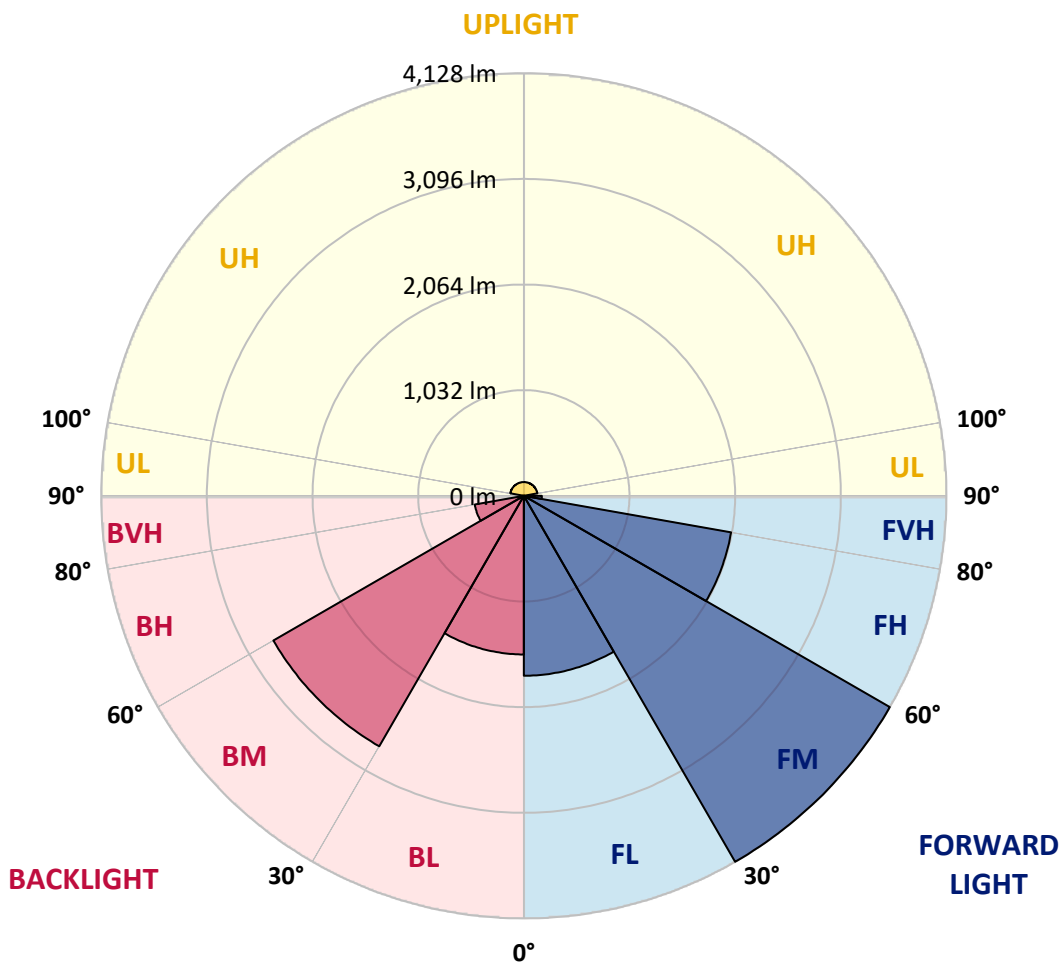


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1757.3	13.4			
FM (30°-60°)	4127.9	31.4			
FH (60°-80°)	2055.7	15.6			G2/5000
FVH (80°-90°)	175.5	1.3			G2/225
BL (0°-30°)	1549.6	11.8	B3/2500		
BM (30°-60°)	2825.0	21.5	B3/5000		
BH (60°-80°)	487.0	3.7	B1/500		G1/500
BVH (80°-90°)	29.1	0.2			G1/100
UL (90°-100°)	7.6	0.1		U1/10	
UH (100°-180°)	134.3	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°	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7
1°	4149.8	4143.4	4131.7	4118.1	4113.5	4096.9	4097.9	4096.7	4108.8	4115.0	4132.6
2°	4171.2	4161.6	4138.3	4115.8	4095.1	4078.7	4079.3	4078.9	4096.3	4117.1	4134.4
3°	4191.9	4178.4	4147.2	4115.3	4082.4	4065.4	4065.8	4063.0	4074.8	4111.8	4140.3
4°	4212.7	4195.9	4153.7	4109.6	4069.2	4050.4	4052.7	4052.8	4062.3	4104.0	4147.4
5°	4231.4	4209.6	4159.4	4104.3	4054.4	4036.7	4025.7	4035.5	4047.8	4095.6	4149.2
6°	4251.7	4225.0	4167.5	4096.8	4039.7	4018.5	3990.1	4007.4	4033.8	4077.7	4159.1
7°	4275.1	4242.1	4171.2	4087.0	4026.9	3984.2	3962.6	3969.0	4019.2	4066.3	4160.9
8°	4302.2	4262.3	4174.4	4075.2	4011.2	3952.2	3935.1	3942.3	4001.6	4052.1	4161.9
9°	4325.6	4281.0	4176.5	4056.0	3993.6	3923.0	3915.8	3920.3	3981.7	4037.7	4162.3
10°	4347.1	4299.3	4178.3	4042.4	3974.0	3900.3	3895.6	3899.4	3953.5	4022.9	4160.9
11°	4369.2	4314.6	4176.3	4025.6	3950.7	3876.6	3875.3	3871.8	3924.1	4004.6	4156.9
12°	4394.1	4333.6	4172.1	4006.6	3917.4	3855.7	3856.0	3850.7	3894.5	3984.4	4153.3
13°	4411.6	4345.6	4169.5	3992.5	3887.5	3835.0	3838.6	3829.8	3863.1	3959.2	4150.9
14°	4431.9	4355.7	4167.3	3970.4	3855.1	3814.0	3818.7	3814.3	3826.9	3935.9	4140.6
15°	4445.3	4363.8	4162.1	3948.2	3823.1	3793.6	3801.3	3792.8	3795.8	3912.0	4133.0
16°	4463.7	4376.3	4160.1	3916.1	3792.4	3772.2	3782.1	3770.0	3764.0	3885.8	4123.2
17°	4483.2	4387.9	4153.3	3890.8	3760.4	3742.6	3765.1	3747.4	3733.7	3853.9	4116.8
18°	4507.4	4397.8	4143.4	3864.4	3727.2	3719.8	3739.9	3718.0	3704.9	3824.6	4104.7
19°	4521.2	4411.1	4125.8	3836.4	3695.9	3695.9	3722.7	3695.4	3673.4	3794.6	4090.4
20°	4532.0	4417.4	4111.1	3804.9	3657.7	3674.1	3704.3	3674.0	3642.1	3764.5	4064.1
21°	4540.8	4418.6	4094.1	3773.1	3623.8	3654.1	3689.7	3652.6	3599.9	3733.0	4043.1
22°	4543.7	4413.1	4074.8	3741.0	3590.1	3632.3	3675.8	3631.1	3568.1	3699.0	4019.7
23°	4550.7	4408.7	4052.1	3705.0	3552.7	3609.6	3658.7	3609.6	3534.2	3665.0	3996.5
24°	4558.4	4405.1	4030.1	3669.8	3518.7	3581.8	3640.4	3588.5	3500.3	3620.6	3973.9
25°	4568.0	4400.8	4006.1	3632.0	3483.1	3560.3	3619.5	3566.4	3464.5	3582.9	3948.3
26°	4574.1	4398.2	3982.9	3594.5	3447.8	3538.7	3600.0	3542.1	3428.4	3542.8	3919.7
27°	4582.5	4395.2	3956.8	3546.6	3410.8	3516.1	3578.7	3517.9	3393.9	3499.4	3891.7
28°	4589.7	4389.4	3927.7	3503.8	3374.6	3488.2	3560.8	3491.5	3352.8	3454.9	3857.1
29°	4604.0	4384.0	3897.6	3458.9	3337.1	3460.1	3536.6	3460.1	3315.7	3408.9	3825.1
30°	4613.2	4379.0	3858.0	3414.1	3297.9	3433.0	3514.4	3433.5	3276.6	3362.1	3791.1
31°	4621.8	4372.4	3826.5	3367.6	3250.5	3406.8	3491.7	3408.0	3237.3	3310.6	3749.3
32°	4630.0	4367.9	3794.0	3322.2	3210.4	3381.1	3467.2	3381.5	3190.8	3261.6	3714.9
33°	4634.7	4357.0	3761.3	3276.1	3170.3	3354.9	3444.7	3355.2	3151.3	3212.2	3678.5
34°	4642.9	4356.6	3727.0	3228.7	3130.3	3324.7	3418.1	3326.2	3110.4	3153.8	3640.1
35°	4649.6	4353.7	3690.1	3172.5	3087.2	3295.7	3390.8	3296.9	3068.5	3100.5	3602.1
36°	4655.1	4353.3	3650.8	3118.9	3046.2	3258.1	3362.1	3264.8	3023.7	3044.1	3558.7
37°	4665.9	4356.6	3610.2	3062.5	3001.9	3226.3	3325.3	3226.3	2978.2	2985.4	3515.8
38°	4669.7	4350.6	3560.2	3004.5	2954.8	3193.8	3295.4	3192.8	2931.3	2923.2	3472.1
39°	4672.2	4344.8	3516.5	2936.6	2900.1	3160.4	3263.6	3159.3	2884.4	2863.1	3416.3
40°	4671.0	4335.5	3472.1	2874.2	2851.6	3127.2	3229.0	3122.4	2831.9	2800.6	3369.2
41°	4668.4	4321.8	3428.4	2811.7	2805.2	3092.3	3190.0	3086.6	2784.9	2737.6	3320.9
42°	4667.1	4310.7	3378.6	2746.4	2754.4	3056.4	3147.3	3049.0	2737.9	2676.7	3271.7
43°	4671.5	4299.2	3333.7	2684.2	2706.9	3019.5	3100.0	3011.4	2690.7	2605.7	3221.5
44°	4685.4	4287.7	3288.9	2619.0	2659.2	2974.5	3042.7	2967.2	2640.0	2544.5	3175.1



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	4679.2	4279.3	3246.2	2553.5	2611.0	2934.7	2981.6	2922.0	2590.8	2481.0	3126.6
46°	4615.6	4274.8	3202.6	2477.7	2560.3	2891.6	2896.5	2871.2	2543.5	2411.0	3081.6
47°	4591.5	4274.0	3160.5	2411.1	2511.0	2836.8	2785.3	2815.5	2489.9	2345.1	3032.8
48°	4603.5	4243.9	3117.9	2344.0	2460.8	2781.7	2627.0	2747.7	2441.6	2279.1	2988.2
49°	4593.1	4166.3	3075.3	2277.0	2411.5	2722.7	2441.6	2678.6	2392.2	2215.1	2943.1
50°	4569.6	4145.2	3023.3	2206.0	2360.4	2657.7	2216.5	2586.5	2342.8	2142.6	2891.2
51°	4542.9	4142.9	2980.0	2137.7	2301.4	2566.5	1944.4	2467.3	2291.4	2072.1	2844.6
52°	4508.9	4106.8	2933.7	2069.7	2251.0	2454.0	1645.9	2308.1	2232.9	2004.6	2797.7
53°	4493.7	4066.4	2883.9	1998.8	2201.1	2314.6	1307.4	2122.6	2181.2	1934.8	2746.2
54°	4485.6	4024.6	2835.3	1919.7	2147.0	2139.4	1028.0	1895.3	2128.0	1855.6	2690.8
55°	4482.9	3990.2	2792.3	1849.0	2094.1	1897.3	797.4	1628.2	2072.0	1784.6	2642.7
56°	4496.7	3967.4	2749.8	1776.4	2039.7	1638.5	614.3	1304.7	2010.6	1712.1	2596.4
57°	4523.1	3948.5	2706.6	1693.3	1975.0	1352.7	498.3	1021.8	1948.7	1638.5	2551.6
58°	4566.4	3940.1	2648.5	1615.4	1914.1	1038.3	437.8	781.1	1881.3	1557.9	2494.6
59°	4622.9	3934.8	2551.0	1539.1	1848.2	789.3	420.5	598.3	1801.6	1479.9	2404.7
60°	4685.1	3941.6	2474.3	1462.4	1777.8	600.8	409.9	461.9	1723.2	1403.2	2316.8
61°	4707.4	3976.7	2418.3	1380.3	1693.8	471.6	400.7	394.7	1638.8	1330.7	2253.1
62°	4655.4	4037.5	2343.2	1308.5	1609.3	388.7	389.2	373.7	1552.2	1251.8	2175.3
63°	4468.2	4114.0	2248.8	1240.5	1520.7	366.1	374.7	361.2	1446.6	1185.1	2078.6
64°	4233.3	4143.4	2144.1	1171.6	1430.1	353.3	360.7	350.3	1325.4	1120.3	1975.2
65°	4008.4	4037.4	2048.9	1095.3	1318.1	341.6	348.8	336.8	1177.5	1055.4	1872.6
66°	3794.4	3795.4	1951.8	1027.1	1189.9	327.3	336.4	322.0	994.0	983.9	1761.4
67°	3382.4	3509.5	1844.6	960.4	1033.7	312.6	325.5	305.7	754.5	917.0	1661.3
68°	2946.4	3253.8	1762.9	884.7	813.0	297.6	316.9	291.1	543.0	847.7	1568.8
69°	2729.2	2834.1	1696.7	813.3	592.0	281.4	308.0	276.7	380.6	770.9	1480.8
70°	2596.3	2472.8	1651.6	739.6	413.3	266.6	296.3	263.9	284.5	699.9	1417.6
71°	2474.4	2304.3	1658.3	659.0	292.9	254.5	281.0	253.4	246.9	629.2	1387.8
72°	2346.4	2204.1	1920.6	587.7	250.1	244.0	259.6	241.1	232.3	560.3	1504.4
73°	2206.7	2104.0	2235.9	520.5	232.8	230.2	239.5	226.5	216.8	486.7	1963.0
74°	2044.9	1998.7	1730.7	457.6	216.5	215.1	220.0	212.5	200.2	423.7	1660.8
75°	1880.5	1893.2	1101.8	392.6	198.5	200.8	201.6	193.8	186.6	364.6	1004.0
76°	1716.0	1773.0	917.0	337.3	183.6	182.7	189.4	175.7	172.9	310.7	784.9
77°	1542.2	1642.1	813.4	287.5	168.9	165.1	178.4	156.3	159.4	263.1	684.8
78°	1381.1	1516.0	809.4	240.9	154.7	145.2	167.2	138.1	146.3	217.1	663.6
79°	1215.3	1413.4	803.6	196.5	139.4	128.1	146.3	125.6	133.5	179.0	707.0
80°	1051.9	1308.5	624.9	160.7	126.8	114.9	130.0	114.2	121.5	144.6	518.5
81°	873.7	1176.3	420.5	130.0	114.8	103.4	115.7	102.3	106.7	114.0	338.3
82°	716.3	1016.1	351.3	101.9	98.1	92.1	96.0	88.7	91.5	85.4	281.5
83°	570.0	846.2	309.9	75.1	82.7	78.0	73.9	76.6	74.8	65.6	252.2
84°	441.5	730.5	271.6	56.2	66.8	65.2	55.3	64.1	60.7	50.2	222.0
85°	311.2	618.5	231.8	41.3	52.8	53.0	44.8	48.3	46.8	36.9	189.5
86°	210.7	445.9	193.1	28.8	38.8	37.9	28.8	34.4	37.2	25.1	151.1
87°	124.8	304.5	137.2	17.5	28.2	23.1	18.4	22.3	25.9	16.4	105.1
88°	41.8	116.8	55.2	9.1	16.8	12.8	13.9	14.7	15.9	9.4	33.7
89°	3.4	2.4	3.2	3.7	7.4	7.3	11.9	12.0	8.7	5.0	3.8



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1.2	1.1	1.3	1.7	3.4	5.2	12.5	12.0	8.1	4.0	3.5
91°	1.1	1.1	1.6	2.1	3.7	5.4	13.7	13.2	8.6	4.5	3.9
92°	1.3	1.3	1.6	1.8	4.4	6.1	14.9	14.0	9.3	4.9	4.2
93°	1.6	1.5	1.8	2.2	4.6	6.8	16.0	15.1	10.1	5.2	4.6
94°	1.6	1.5	2.0	2.4	5.0	7.5	17.0	16.1	10.7	5.5	4.8
95°	1.6	1.6	2.3	2.7	5.5	8.4	18.3	17.0	11.3	6.0	5.3
96°	1.5	1.5	2.3	2.9	5.8	8.9	19.6	18.2	11.9	6.6	5.7
97°	1.9	1.7	2.6	3.3	6.4	10.0	20.9	19.0	12.9	7.1	6.2
98°	1.8	1.8	2.8	3.5	7.1	10.7	21.8	20.0	13.6	7.6	6.6
99°	1.9	2.0	3.2	3.8	7.5	11.5	22.9	21.1	14.1	8.1	7.3
100°	1.9	2.1	3.4	4.0	8.2	12.1	24.2	22.1	15.2	8.7	7.7
101°	2.1	2.4	3.8	4.6	8.5	13.0	25.3	23.1	15.9	9.3	8.2
102°	2.2	2.6	4.0	5.0	9.2	13.9	26.4	24.0	16.7	9.9	8.6
103°	2.3	2.8	4.4	5.6	9.8	14.5	27.6	25.0	17.3	10.6	9.3
104°	2.6	3.0	4.9	5.8	10.5	15.5	28.4	25.8	18.2	11.2	9.9
105°	2.9	3.2	5.3	6.2	11.1	16.5	29.5	26.9	19.0	11.7	10.6
106°	2.9	3.8	5.6	6.7	11.7	17.1	30.7	27.8	19.5	12.5	11.1
107°	3.2	4.0	6.0	7.3	12.2	18.2	31.8	29.0	20.3	13.0	11.7
108°	3.7	4.6	6.7	7.8	13.1	19.2	32.6	29.9	20.9	13.7	12.2
109°	4.0	5.0	7.1	8.3	13.6	20.0	33.5	30.7	21.8	14.5	13.2
110°	4.4	5.6	7.9	8.8	14.2	21.0	34.6	31.8	22.5	15.2	13.8
111°	4.8	6.1	8.3	9.3	14.9	21.9	35.4	32.6	23.5	16.0	14.3
112°	5.5	6.5	8.6	9.9	15.5	22.7	36.6	33.2	24.1	16.4	15.1
113°	5.9	7.1	9.2	10.4	16.2	23.4	37.1	33.9	24.7	17.4	15.9
114°	6.3	7.8	9.8	11.0	17.0	24.2	37.8	34.7	25.4	17.9	16.3
115°	6.7	8.3	10.2	11.7	17.8	25.1	38.7	35.3	26.2	18.7	17.0
116°	7.5	8.9	10.9	12.0	18.4	25.8	39.3	35.9	27.0	19.5	17.8
117°	8.2	9.4	11.4	12.8	19.1	26.7	39.9	36.6	27.7	20.1	18.2
118°	8.6	10.1	11.9	13.5	19.7	27.3	40.5	36.8	28.0	20.7	19.1
119°	9.5	10.8	12.5	14.0	20.4	27.7	41.0	37.3	28.9	21.5	19.7
120°	10.3	11.5	13.1	14.7	21.0	28.8	41.4	38.0	29.5	22.2	20.3
121°	10.9	12.4	13.6	15.4	21.8	29.5	41.7	38.4	30.0	22.9	21.1
122°	11.7	12.9	14.2	16.0	22.5	29.9	41.9	38.9	30.7	23.5	21.6
123°	12.4	13.7	14.9	16.4	23.2	30.8	42.3	39.3	31.1	24.2	22.3
124°	13.4	14.3	15.5	17.0	23.9	31.6	42.9	39.8	31.7	24.9	22.9
125°	14.2	15.2	16.1	17.9	24.6	32.1	43.2	40.2	32.3	25.4	23.8
126°	14.9	15.9	16.7	18.6	25.2	32.7	43.4	40.4	32.8	26.2	24.4
127°	15.7	16.4	17.3	19.2	25.7	33.3	43.6	40.7	33.3	26.7	25.1
128°	16.2	17.1	18.1	19.7	26.5	33.9	43.8	41.1	33.8	27.3	25.6
129°	17.2	17.6	18.7	20.3	27.0	34.5	44.0	41.3	34.2	27.9	26.4
130°	18.0	18.3	19.3	20.9	27.6	35.1	44.2	41.5	34.7	28.3	27.0
131°	18.5	18.8	19.8	21.6	28.1	35.7	44.2	41.9	35.2	29.2	27.4
132°	19.2	19.5	20.5	22.2	28.8	36.1	44.4	42.2	35.4	29.6	27.8
133°	19.8	20.2	21.0	23.0	29.4	36.6	44.6	42.5	35.7	30.3	28.4
134°	20.5	20.9	21.7	23.5	30.1	37.4	44.7	42.6	36.2	30.8	29.3



REPORT NUMBER: P1449844  
 CATALOG NUMBER: TWC100\_T4\_40W\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	21.1	21.5	22.3	24.2	30.5	37.9	45.0	42.7	36.7	31.3	29.9
136°	21.7	22.1	23.0	24.7	31.0	38.3	45.0	43.0	36.9	31.8	30.2
137°	22.3	22.6	23.6	25.4	31.5	38.8	44.9	43.2	37.4	32.3	30.8
138°	22.9	23.5	24.3	25.9	31.7	39.0	44.9	43.0	37.6	32.9	31.3
139°	23.5	23.9	24.8	26.8	32.3	39.3	45.0	43.2	37.9	33.4	31.7
140°	24.0	24.5	25.5	27.3	32.7	39.6	45.2	43.4	38.2	33.8	32.3
141°	24.6	25.2	26.1	27.6	33.1	39.9	44.8	43.4	38.6	34.4	32.7
142°	25.2	25.4	26.9	28.2	33.5	40.4	44.9	43.3	38.9	34.7	33.1
143°	25.6	26.4	27.6	28.9	34.0	40.5	44.9	43.4	39.0	35.1	33.4
144°	26.3	26.8	27.8	29.4	34.7	40.7	44.8	43.4	39.4	35.7	33.9
145°	27.2	27.7	28.6	29.9	34.7	40.7	44.7	43.4	39.8	35.8	34.4
146°	27.7	28.4	29.2	30.3	35.2	40.9	44.8	43.7	40.0	36.4	34.9
147°	28.4	28.9	29.8	30.7	35.6	41.1	44.7	43.5	40.3	36.9	35.5
148°	29.3	29.9	30.1	31.5	36.0	41.1	44.6	43.5	40.6	37.2	35.8
149°	30.0	30.1	30.8	32.0	36.4	41.2	44.8	43.8	40.7	37.5	36.0
150°	30.7	30.8	31.2	32.4	36.8	41.6	44.6	43.9	41.0	38.0	36.4
151°	31.3	31.6	31.8	32.9	37.2	41.6	44.7	43.9	41.2	38.4	36.8
152°	32.2	32.1	32.2	33.4	37.6	41.9	44.5	43.8	41.3	38.7	37.4
153°	32.5	32.6	32.5	33.8	37.7	41.8	44.3	43.8	41.7	39.1	37.6
154°	33.2	33.2	33.2	34.2	38.1	41.9	44.4	43.9	41.7	39.1	37.8
155°	33.8	33.4	33.7	34.8	38.3	42.1	44.4	43.8	42.0	39.6	38.1
156°	34.5	34.0	34.2	35.2	38.7	42.2	44.1	43.8	42.1	39.9	38.4
157°	34.7	34.4	34.6	35.6	38.9	42.5	43.9	43.7	42.0	40.1	38.8
158°	35.1	34.8	34.9	36.1	39.4	42.7	43.9	43.7	42.1	40.4	39.1
159°	35.5	35.1	35.4	36.5	39.6	42.7	43.8	43.6	42.3	40.7	39.4
160°	35.9	35.4	35.6	36.7	40.1	42.7	43.7	43.7	42.5	40.8	39.6
161°	36.3	35.8	36.0	37.3	40.2	42.9	43.5	43.4	42.6	41.1	39.9
162°	36.6	36.1	36.6	37.6	40.5	42.9	43.3	43.5	42.7	41.1	40.2
163°	36.7	36.4	36.7	38.1	40.7	43.0	43.3	43.5	42.6	41.4	40.4
164°	37.2	36.5	37.1	38.5	41.1	43.0	43.3	43.3	42.8	41.5	40.7
165°	37.6	37.4	37.7	38.7	41.3	43.3	43.1	43.3	42.8	41.7	40.9
166°	37.8	37.5	38.0	39.0	41.3	43.2	43.1	43.2	42.9	41.8	41.0
167°	38.1	38.1	38.3	39.4	41.6	43.3	43.0	43.3	42.9	41.9	41.2
168°	38.3	38.3	38.8	39.5	41.8	43.3	42.9	43.1	42.9	42.1	41.6
169°	38.7	38.7	39.1	40.1	42.1	43.4	43.0	43.1	42.9	42.3	41.6
170°	38.9	38.8	39.4	40.5	42.1	43.3	42.9	43.2	43.1	42.6	41.9
171°	39.3	39.2	39.9	40.8	42.3	43.4	43.2	43.1	42.9	42.7	42.0
172°	39.9	39.5	40.1	41.1	42.5	43.3	42.9	43.0	42.9	42.9	42.1
173°	40.3	39.9	40.3	41.5	42.6	43.2	43.2	43.3	42.9	43.0	42.3
174°	40.6	40.2	40.7	41.7	42.7	43.4	43.1	43.1	42.8	43.2	42.7
175°	41.0	40.5	41.3	41.8	43.1	43.4	43.0	42.7	42.9	43.1	42.8
176°	41.4	41.0	41.2	42.3	43.1	43.6	43.0	42.9	42.8	43.0	43.0
177°	41.6	41.2	41.7	42.6	43.1	43.5	42.9	42.6	42.7	43.1	43.1
178°	41.9	41.6	41.8	42.6	43.4	43.5	42.8	42.3	42.8	43.2	43.1
179°	42.1	41.8	42.1	42.8	43.3	43.3	42.8	42.5	42.7	43.3	43.1



REPORT NUMBER: P1449844  
CATALOG NUMBER: TWC100\_T4\_40W\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7



REPORT NUMBER: P1449844  
CATALOG NUMBER: TWC100\_T4\_40W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	4118.7	4118.7
1°	4139.6	4149.8
2°	4156.4	4171.2
3°	4174.4	4191.9
4°	4190.0	4212.7
5°	4205.6	4231.4
6°	4222.8	4251.7
7°	4239.0	4275.1
8°	4255.6	4302.2
9°	4272.3	4325.6
10°	4286.8	4347.1
11°	4301.4	4369.2
12°	4320.5	4394.1
13°	4330.8	4411.6
14°	4342.0	4431.9
15°	4344.3	4445.3
16°	4354.6	4463.7
17°	4366.0	4483.2
18°	4371.4	4507.4
19°	4380.8	4521.2
20°	4384.2	4532.0
21°	4382.4	4540.8
22°	4377.8	4543.7
23°	4372.9	4550.7
24°	4367.0	4558.4
25°	4362.0	4568.0
26°	4354.0	4574.1
27°	4347.1	4582.5
28°	4340.5	4589.7
29°	4331.2	4604.0
30°	4330.4	4613.2
31°	4323.2	4621.8
32°	4317.4	4630.0
33°	4312.0	4634.7
34°	4301.6	4642.9
35°	4298.8	4649.6
36°	4296.3	4655.1
37°	4294.8	4665.9
38°	4285.6	4669.7
39°	4278.6	4672.2
40°	4267.8	4671.0
41°	4255.2	4668.4
42°	4242.2	4667.1
43°	4229.8	4671.5
44°	4216.6	4685.4



REPORT NUMBER: P1449844  
CATALOG NUMBER: TWC100\_T4\_40W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	4202.3	4679.2
46°	4197.7	4615.6
47°	4190.0	4591.5
48°	4134.3	4603.5
49°	4072.7	4593.1
50°	4063.2	4569.6
51°	4049.3	4542.9
52°	4016.9	4508.9
53°	3965.3	4493.7
54°	3923.4	4485.6
55°	3887.4	4482.9
56°	3859.8	4496.7
57°	3840.2	4523.1
58°	3830.3	4566.4
59°	3822.3	4622.9
60°	3835.8	4685.1
61°	3882.1	4707.4
62°	3949.2	4655.4
63°	4012.7	4468.2
64°	4003.4	4233.3
65°	3823.9	4008.4
66°	3560.6	3794.4
67°	3319.5	3382.4
68°	2988.8	2946.4
69°	2549.0	2729.2
70°	2304.4	2596.3
71°	2189.3	2474.4
72°	2076.0	2346.4
73°	1976.8	2206.7
74°	1875.9	2044.9
75°	1767.1	1880.5
76°	1625.7	1716.0
77°	1504.1	1542.2
78°	1399.7	1381.1
79°	1300.5	1215.3
80°	1186.0	1051.9
81°	1065.0	873.7
82°	895.2	716.3
83°	746.3	570.0
84°	634.0	441.5
85°	484.0	311.2
86°	364.3	210.7
87°	200.8	124.8
88°	11.7	41.8
89°	1.9	3.4



REPORT NUMBER: P1449844  
CATALOG NUMBER: TWC100\_T4\_40W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	2.1	1.2
91°	2.2	1.1
92°	2.3	1.3
93°	2.7	1.6
94°	2.7	1.6
95°	3.1	1.6
96°	3.6	1.5
97°	3.7	1.9
98°	4.3	1.8
99°	4.8	1.9
100°	5.2	1.9
101°	5.7	2.1
102°	6.3	2.2
103°	7.0	2.3
104°	7.5	2.6
105°	8.0	2.9
106°	8.6	2.9
107°	9.4	3.2
108°	10.0	3.7
109°	10.6	4.0
110°	11.4	4.4
111°	12.1	4.8
112°	12.8	5.5
113°	13.7	5.9
114°	14.4	6.3
115°	15.4	6.7
116°	16.1	7.5
117°	16.9	8.2
118°	17.5	8.6
119°	18.4	9.5
120°	19.3	10.3
121°	20.1	10.9
122°	20.9	11.7
123°	21.6	12.4
124°	22.4	13.4
125°	23.1	14.2
126°	23.8	14.9
127°	24.4	15.7
128°	25.1	16.2
129°	25.6	17.2
130°	26.4	18.0
131°	27.0	18.5
132°	27.7	19.2
133°	27.9	19.8
134°	28.6	20.5



REPORT NUMBER: P1449844  
CATALOG NUMBER: TWC100\_T4\_40W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
135°	29.3	21.1
136°	29.7	21.7
137°	30.1	22.3
138°	30.8	22.9
139°	31.3	23.5
140°	32.0	24.0
141°	32.2	24.6
142°	32.7	25.2
143°	33.1	25.6
144°	33.7	26.3
145°	34.2	27.2
146°	34.5	27.7
147°	34.7	28.4
148°	35.1	29.3
149°	35.4	30.0
150°	35.9	30.7
151°	36.1	31.3
152°	36.5	32.2
153°	36.7	32.5
154°	36.9	33.2
155°	37.3	33.8
156°	37.5	34.5
157°	37.8	34.7
158°	38.1	35.1
159°	38.3	35.5
160°	38.6	35.9
161°	38.6	36.3
162°	39.0	36.6
163°	39.3	36.7
164°	39.5	37.2
165°	39.9	37.6
166°	40.1	37.8
167°	40.2	38.1
168°	40.5	38.3
169°	40.8	38.7
170°	40.9	38.9
171°	41.4	39.3
172°	41.4	39.9
173°	41.7	40.3
174°	42.1	40.6
175°	42.2	41.0
176°	42.5	41.4
177°	42.8	41.6
178°	43.2	41.9
179°	43.3	42.1

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

Scaled Data Report



REPORT NUMBER: P1449844  
CATALOG NUMBER: TWC100\_T4\_40W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
180°	42.7	42.7

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

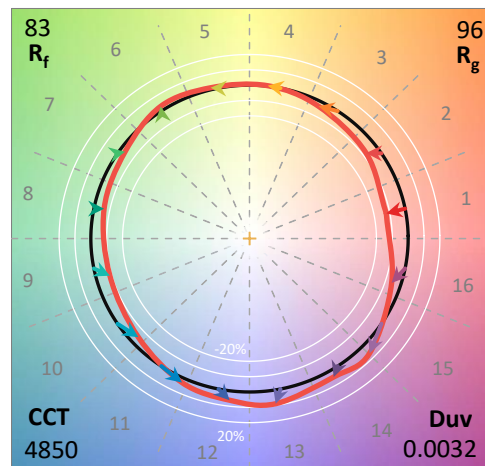
**Test Information**

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  
 R<sub>f</sub>: 83.1  
 R<sub>g</sub>: 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**

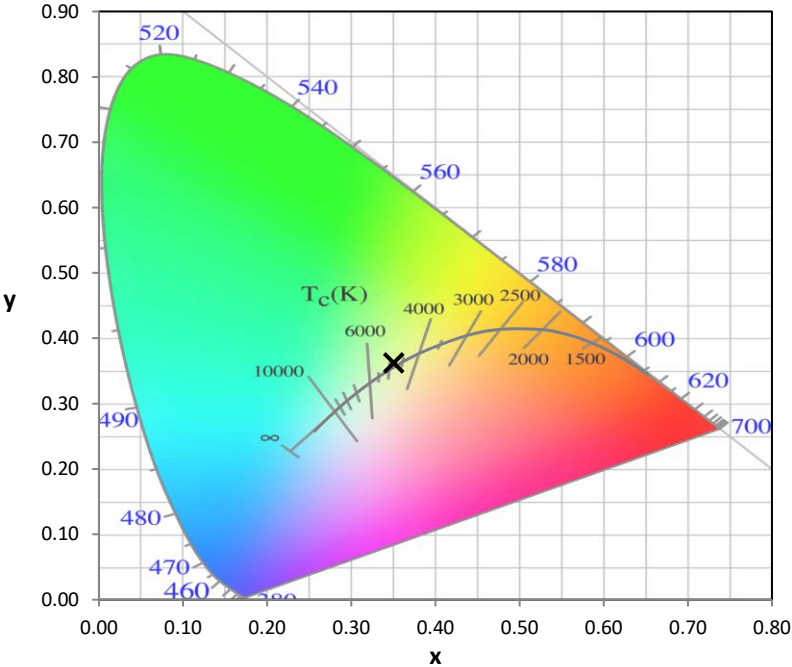
Stabilization Time: 25M  
 Operation Time: 1H 25M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

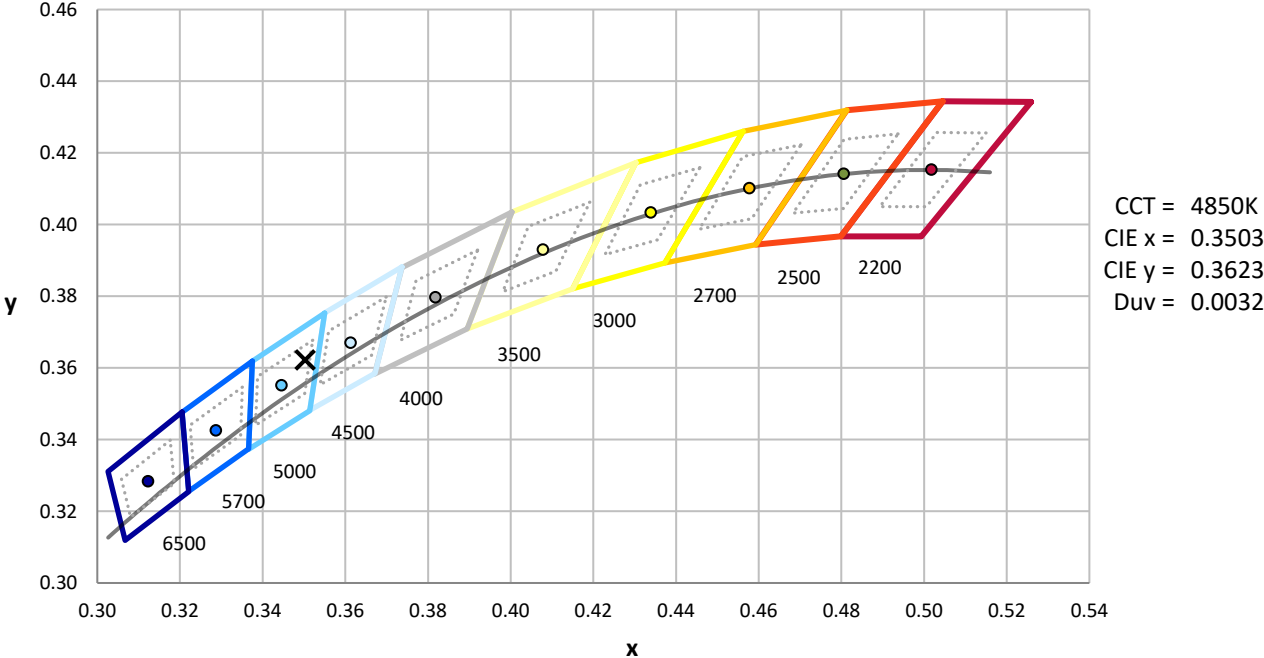
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



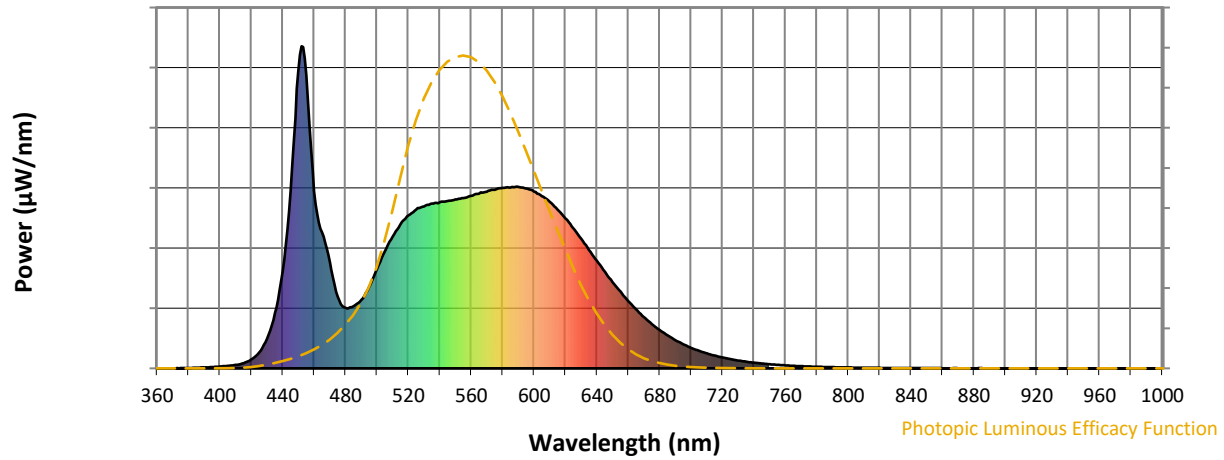
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

**Photopic Flux vs. Wavelength**

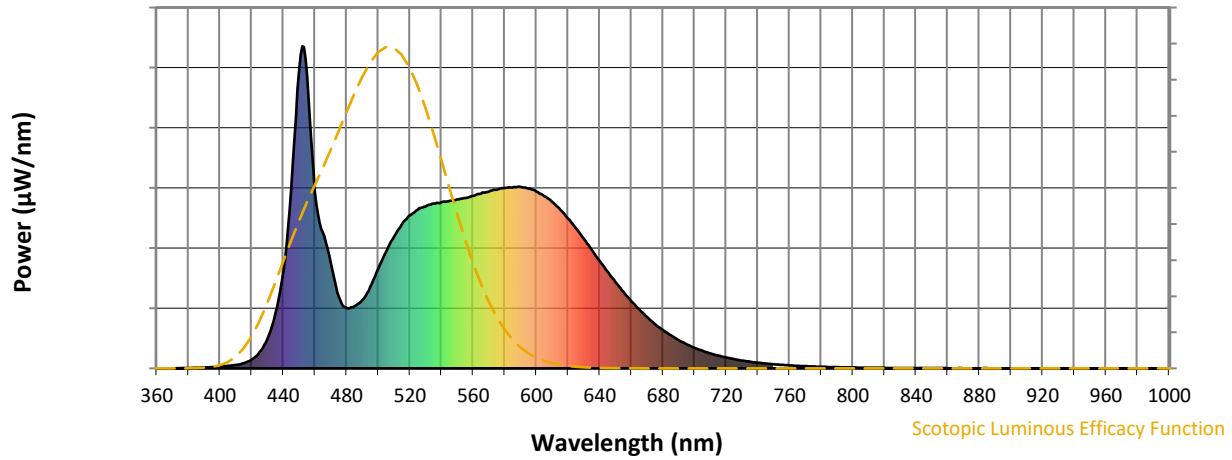


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	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**



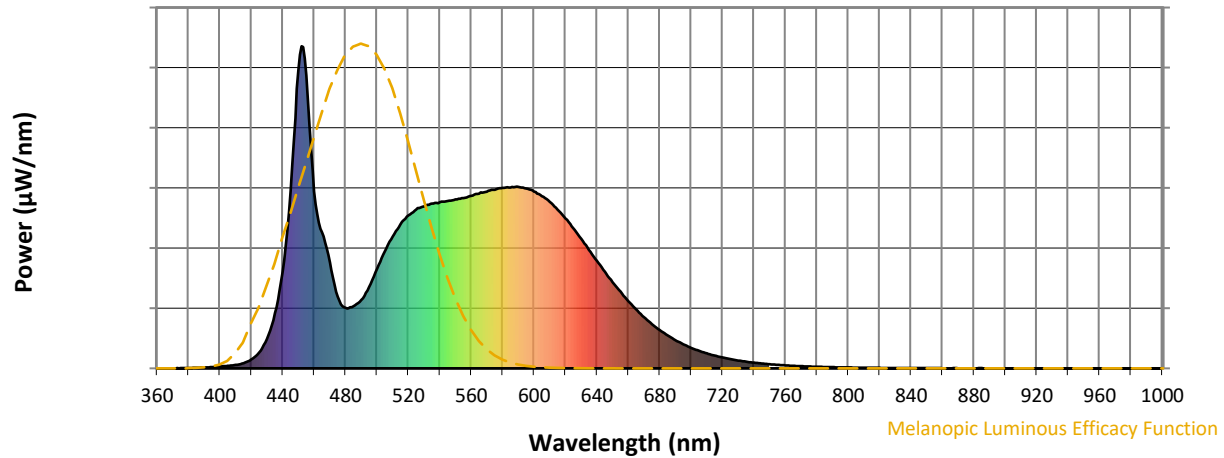
**Scotopic Lumens: NR**

**S/P: 1.9**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	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



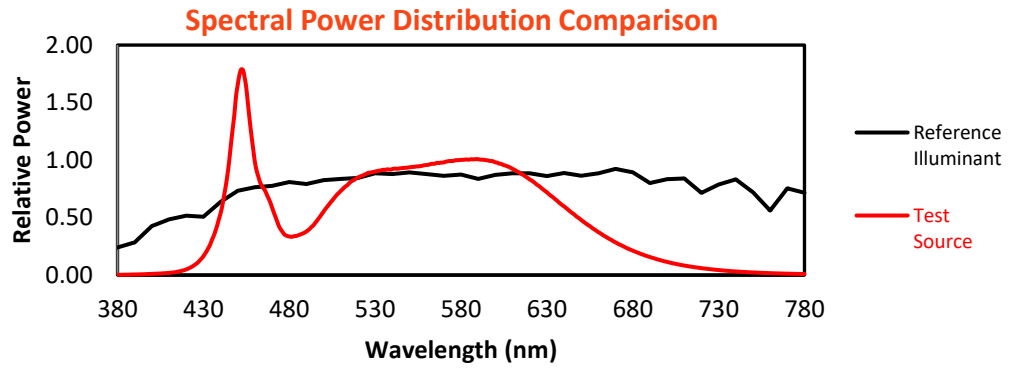
Melanopic Lumens: NR

M/P: 4

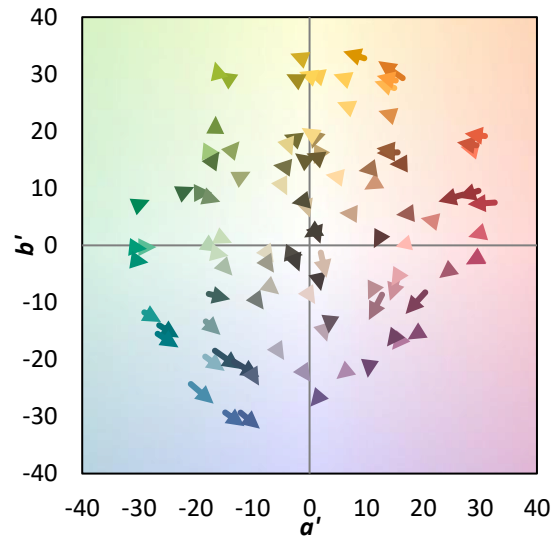
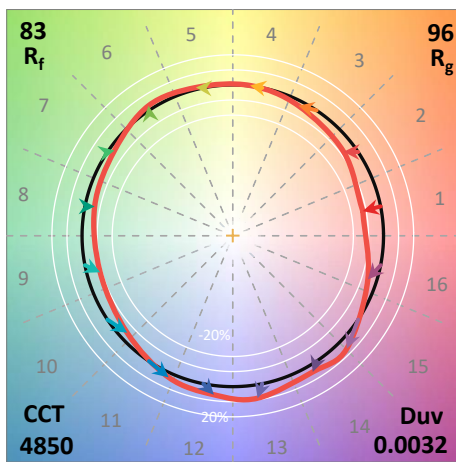
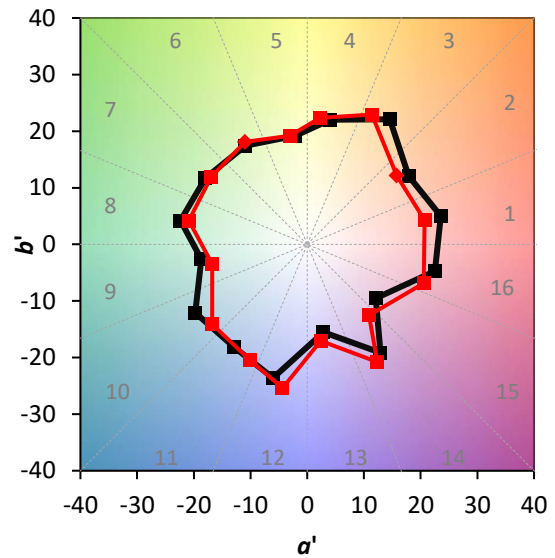
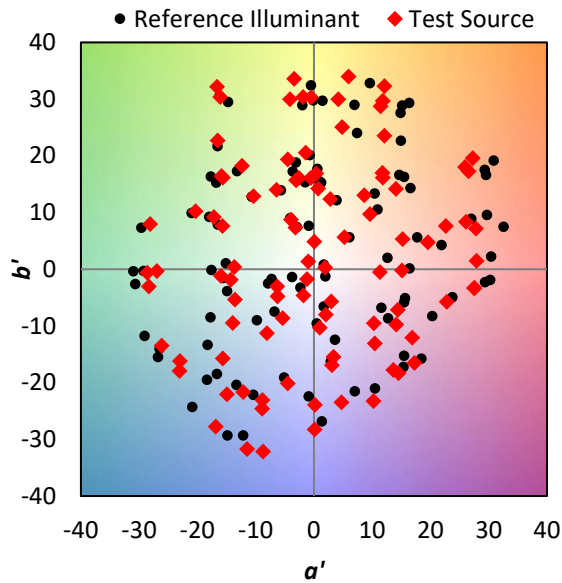
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	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  $R_a = 82.6$   
 $R_9 = 8.5$

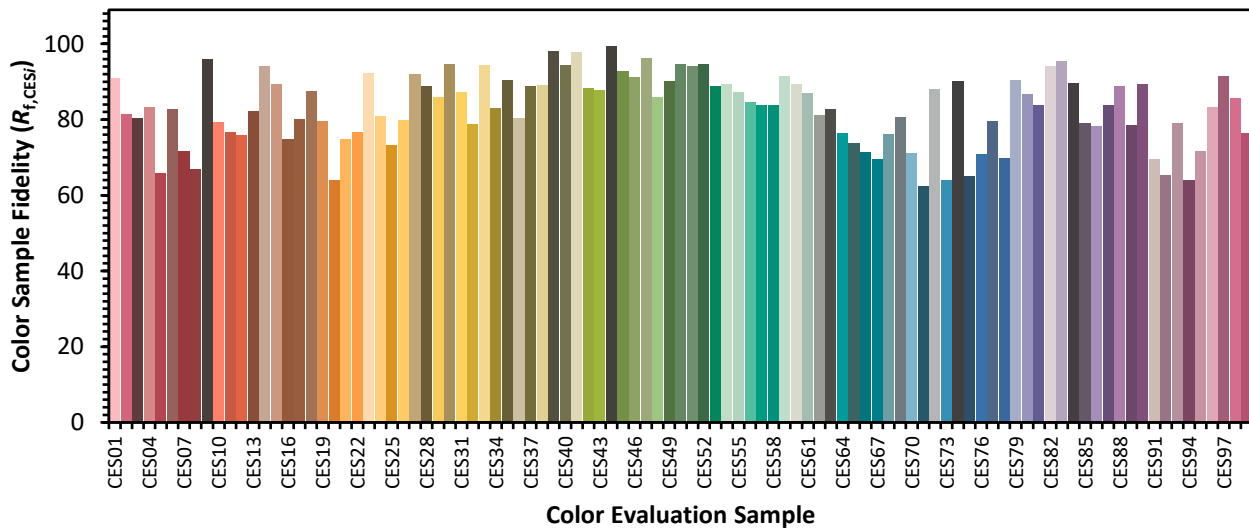


**Color Vector Graphics**

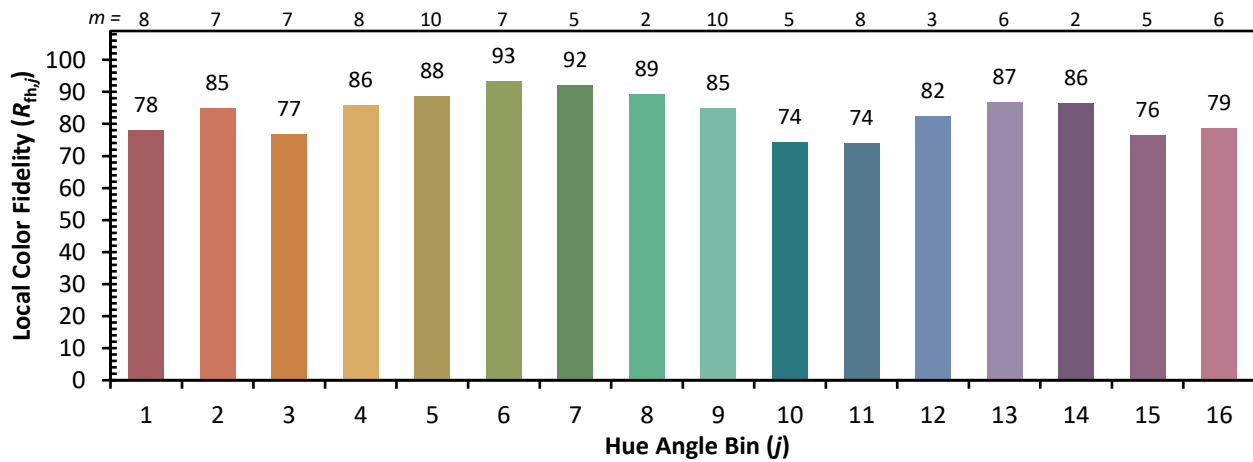
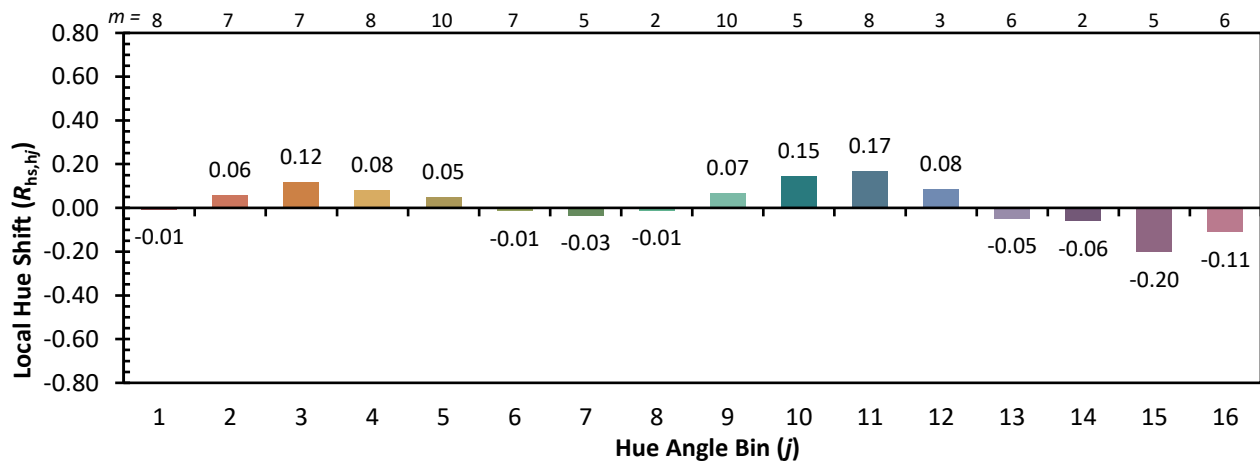
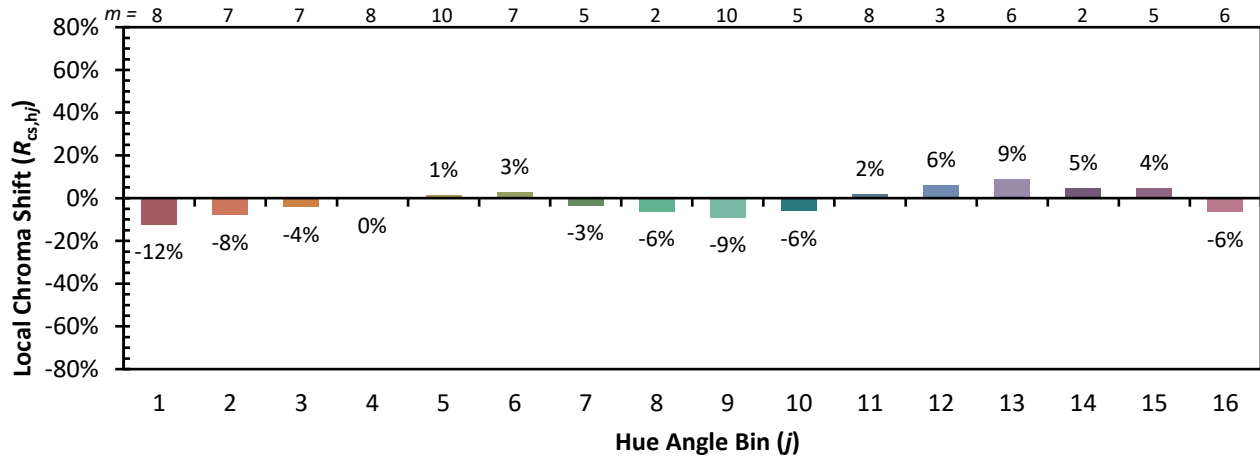


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

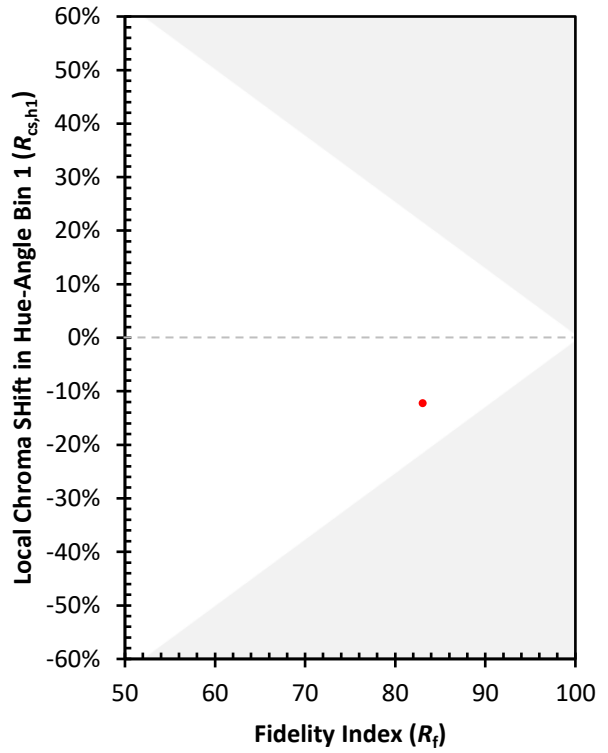
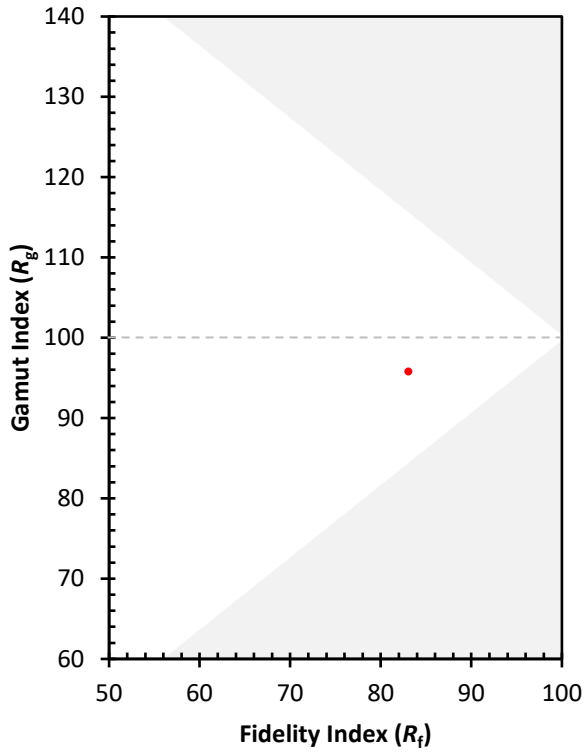
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82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