

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: P1449843

Luminaire Tested: **TWC100\_T4\_40W\_4000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449843  
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\_4000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 40W  
4000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13039 lumens  
Efficiency: N/A  
Efficacy: 169.8 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

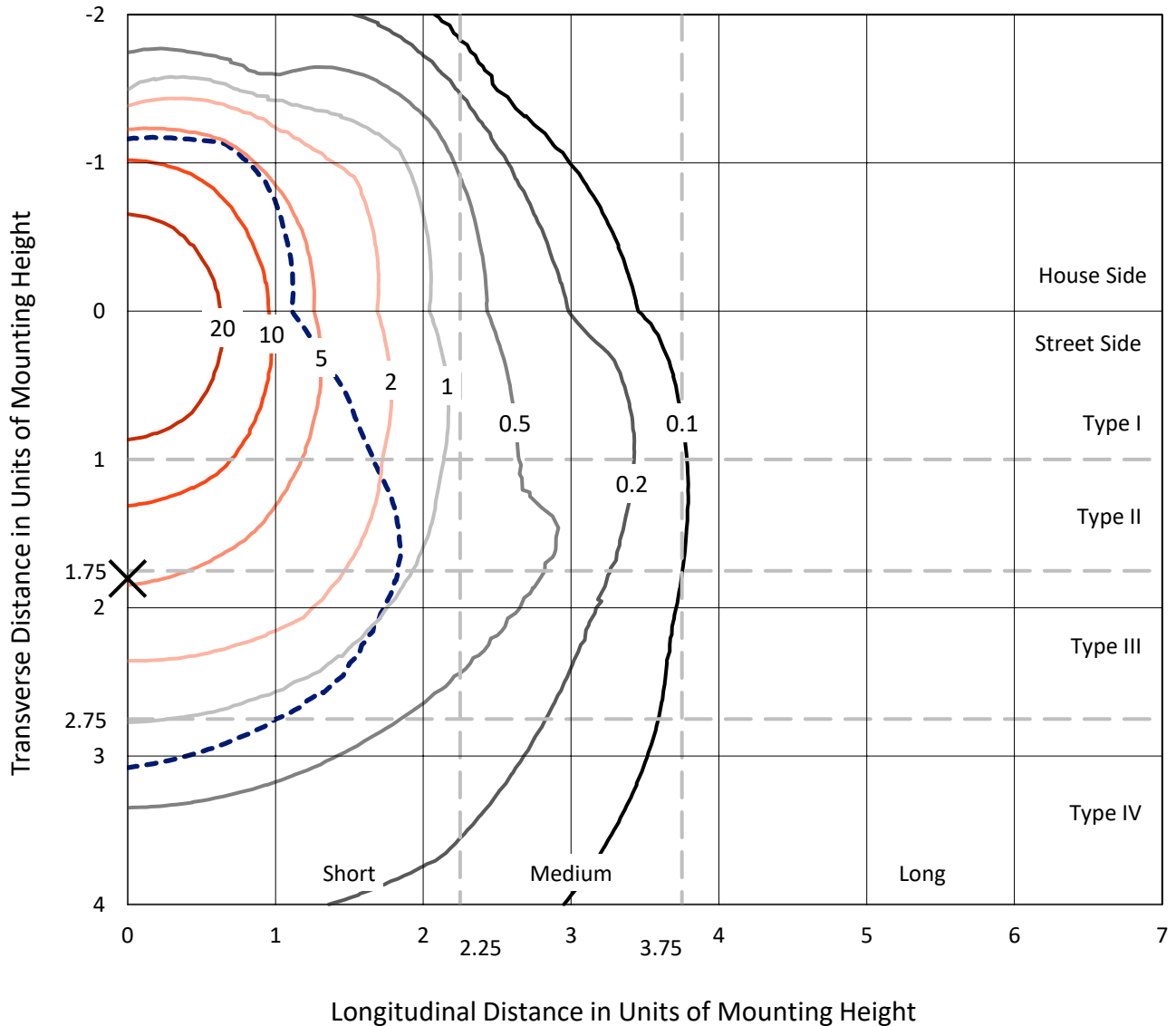
Input Watts (W): 76.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

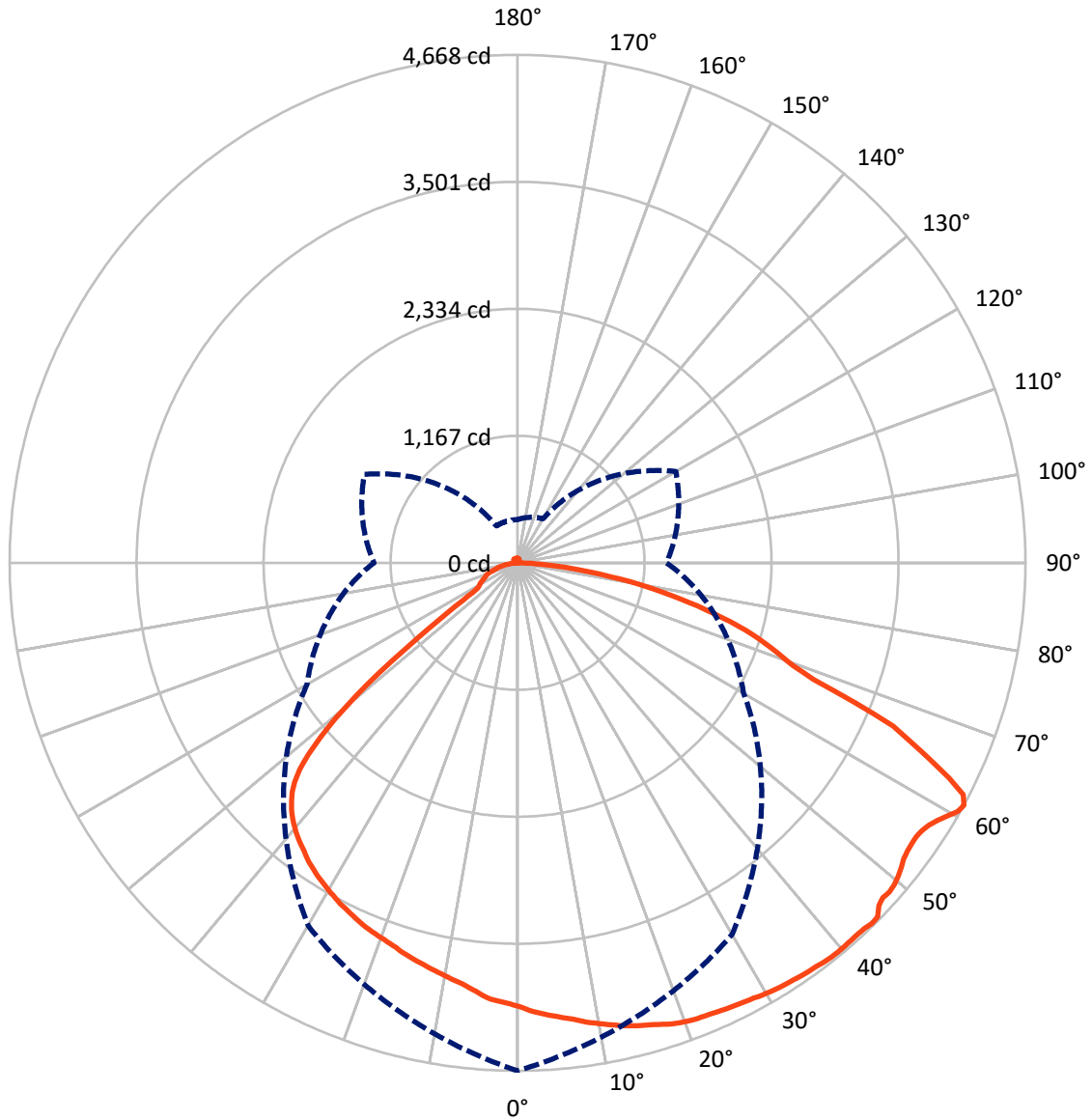
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 41.5 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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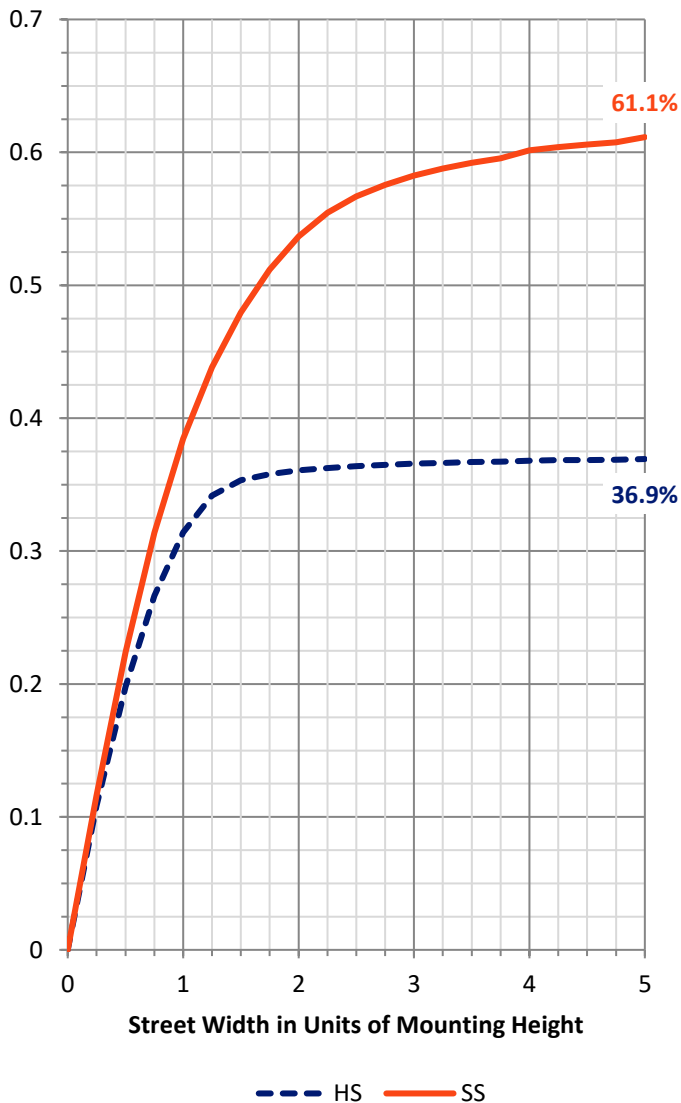
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4849.7	86.6	4936.3
	% Fixture	37.2	0.7	37.9
<b>Street Side</b>	Lumens	8048.5	54.2	8102.7
	% Fixture	61.7	0.4	62.1
<b>Total</b>	Lumens	12898.2	140.8	13039.0
	% Fixture	98.9	1.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.2	3.0
10°-20°	1129.1	8.7
20°-30°	1762.0	13.5
30°-40°	2225.2	17.1
40°-50°	2453.2	18.8
50°-60°	2216.2	17.0
60°-70°	1674.2	12.8
70°-80°	847.2	6.5
80°-90°	202.9	1.6
90°-100°	7.5	0.1
100°-110°	13.2	0.1
110°-120°	18.9	0.1
120°-130°	22.7	0.2
130°-140°	23.7	0.2
140°-150°	21.8	0.2
150°-160°	17.6	0.1
160°-170°	11.4	0.1
170°-180°	4.0	0.0
0°-90°	12898.2	98.9
0°-180°	13039.0	100.0



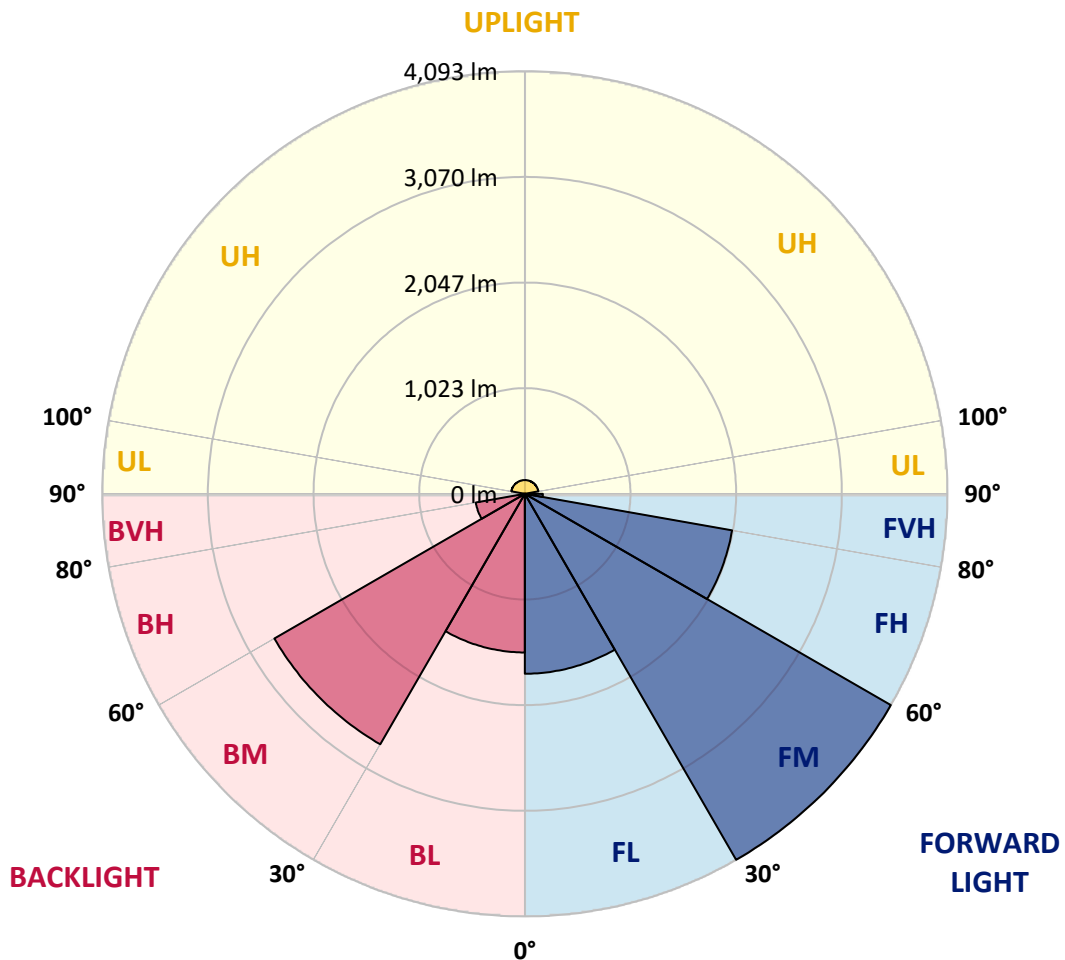
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1742.6	13.4			
FM (30°-60°)	4093.3	31.4			
FH (60°-80°)	2038.6	15.6			G2/5000
FVH (80°-90°)	174.1	1.3			G2/225
BL (0°-30°)	1536.7	11.8	B3/2500		
BM (30°-60°)	2801.3	21.5	B3/5000		
BH (60°-80°)	482.9	3.7	B1/500		G1/500
BVH (80°-90°)	28.8	0.2			G1/100
UL (90°-100°)	7.5	0.1		U1/10	
UH (100°-180°)	133.2	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°	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2
1°	4115.0	4108.8	4097.1	4083.7	4079.1	4062.7	4063.6	4062.5	4074.4	4080.6	4098.1
2°	4136.4	4126.8	4103.7	4081.4	4060.8	4044.6	4045.2	4044.8	4062.0	4082.6	4099.8
3°	4156.8	4143.5	4112.5	4080.9	4048.3	4031.4	4031.8	4029.0	4040.7	4077.4	4105.7
4°	4177.4	4160.8	4119.0	4075.2	4035.2	4016.6	4018.8	4018.9	4028.3	4069.7	4112.7
5°	4196.0	4174.4	4124.6	4070.0	4020.5	4003.0	3992.1	4001.7	4014.0	4061.3	4114.5
6°	4216.1	4189.7	4132.7	4062.6	4006.0	3984.9	3956.8	3973.8	4000.1	4043.6	4124.3
7°	4239.4	4206.7	4136.4	4052.8	3993.2	3950.9	3929.5	3935.8	3985.6	4032.3	4126.1
8°	4266.2	4226.6	4139.4	4041.2	3977.7	3919.1	3902.2	3909.3	3968.1	4018.2	4127.1
9°	4289.4	4245.1	4141.6	4022.1	3960.2	3890.2	3883.1	3887.5	3948.4	4003.9	4127.5
10°	4310.7	4263.4	4143.4	4008.6	3940.8	3867.6	3863.0	3866.8	3920.4	3989.3	4126.1
11°	4332.6	4278.5	4141.4	3992.0	3917.6	3844.2	3842.9	3839.4	3891.3	3971.1	4122.1
12°	4357.3	4297.3	4137.2	3973.1	3884.6	3823.5	3823.8	3818.5	3862.0	3951.1	4118.5
13°	4374.7	4309.3	4134.6	3959.1	3855.0	3802.9	3806.5	3797.7	3830.8	3926.1	4116.2
14°	4394.8	4319.2	4132.4	3937.2	3822.9	3782.1	3786.7	3782.4	3794.9	3902.9	4106.0
15°	4408.1	4327.3	4127.3	3915.2	3791.2	3761.8	3769.5	3761.1	3764.1	3879.3	4098.4
16°	4426.4	4339.7	4125.3	3883.4	3760.7	3740.6	3750.5	3738.5	3732.5	3853.3	4088.7
17°	4445.7	4351.2	4118.5	3858.3	3729.0	3711.3	3733.6	3716.0	3702.4	3821.6	4082.3
18°	4469.7	4361.0	4108.8	3832.1	3696.1	3688.6	3708.6	3686.9	3673.9	3792.6	4070.4
19°	4483.4	4374.2	4091.3	3804.3	3665.0	3665.0	3691.5	3664.5	3642.6	3762.9	4056.2
20°	4494.1	4380.5	4076.7	3773.0	3627.1	3643.4	3673.3	3643.3	3611.7	3733.0	4030.1
21°	4502.9	4381.6	4059.9	3741.5	3593.4	3623.5	3658.8	3622.1	3569.8	3701.8	4009.2
22°	4505.6	4376.2	4040.7	3709.7	3560.1	3601.9	3645.0	3600.7	3538.3	3668.1	3986.1
23°	4512.6	4371.8	4018.2	3674.0	3522.9	3579.4	3628.1	3579.4	3504.6	3634.3	3963.0
24°	4520.3	4368.2	3996.4	3639.1	3489.3	3551.9	3609.9	3558.4	3471.1	3590.4	3940.7
25°	4529.8	4364.0	3972.6	3601.6	3454.0	3530.6	3589.2	3536.5	3435.6	3552.9	3915.3
26°	4535.8	4361.4	3949.6	3564.4	3419.0	3509.1	3569.9	3512.4	3399.7	3513.2	3886.9
27°	4544.1	4358.5	3923.7	3517.0	3382.2	3486.7	3548.8	3488.5	3365.5	3470.1	3859.2
28°	4551.3	4352.7	3894.8	3474.5	3346.3	3459.0	3531.0	3462.3	3324.7	3426.0	3824.8
29°	4565.4	4347.3	3865.0	3430.0	3309.2	3431.1	3507.0	3431.1	3288.0	3380.4	3793.1
30°	4574.6	4342.4	3825.7	3385.5	3270.3	3404.3	3485.0	3404.8	3249.2	3334.0	3759.4
31°	4583.1	4335.8	3794.4	3339.4	3223.3	3378.3	3462.5	3379.5	3210.3	3282.9	3718.0
32°	4591.3	4331.4	3762.2	3294.4	3183.5	3352.8	3438.2	3353.2	3164.1	3234.3	3683.8
33°	4595.9	4320.6	3729.8	3248.6	3143.8	3326.9	3415.9	3327.2	3124.9	3185.4	3647.7
34°	4604.0	4320.2	3695.8	3201.7	3104.1	3296.9	3389.6	3298.4	3084.4	3127.4	3609.6
35°	4610.7	4317.3	3659.2	3145.9	3061.3	3268.1	3362.5	3269.3	3042.8	3074.6	3571.9
36°	4616.2	4316.9	3620.3	3092.8	3020.7	3230.8	3334.0	3237.5	2998.4	3018.6	3528.9
37°	4626.9	4320.2	3580.0	3036.8	2976.8	3199.3	3297.4	3199.3	2953.3	2960.5	3486.4
38°	4630.6	4314.2	3530.4	2979.4	2930.1	3167.0	3267.8	3166.1	2906.7	2898.7	3443.1
39°	4633.2	4308.4	3487.1	2912.0	2875.9	3134.0	3236.3	3132.9	2860.3	2839.1	3387.7
40°	4631.9	4299.3	3443.1	2850.1	2827.7	3101.1	3202.0	3096.3	2808.2	2777.2	3341.0
41°	4629.4	4285.7	3399.7	2788.2	2781.7	3066.5	3163.3	3060.8	2761.6	2714.7	3293.1
42°	4628.0	4274.7	3350.3	2723.4	2731.4	3030.9	3120.9	3023.5	2715.0	2654.3	3244.3
43°	4632.4	4263.3	3305.8	2661.8	2684.2	2994.2	3074.1	2986.2	2668.2	2583.9	3194.5
44°	4646.2	4251.8	3261.4	2597.0	2637.0	2949.7	3017.3	2942.3	2617.9	2523.3	3148.5



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CATALOG NUMBER: TWC100\_T4\_40W\_4000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	4640.1	4243.5	3219.0	2532.1	2589.1	2910.1	2956.7	2897.6	2569.2	2460.3	3100.4
46°	4577.0	4239.1	3175.8	2457.0	2538.9	2867.4	2872.3	2847.1	2522.2	2390.8	3055.8
47°	4553.1	4238.2	3134.1	2390.9	2490.0	2813.1	2762.0	2792.0	2469.1	2325.4	3007.4
48°	4565.0	4208.4	3091.8	2324.4	2440.2	2758.4	2605.1	2724.7	2421.2	2260.1	2963.2
49°	4554.6	4131.4	3049.6	2257.9	2391.3	2700.0	2421.2	2656.2	2372.2	2196.6	2918.5
50°	4531.4	4110.5	2998.0	2187.5	2340.7	2635.4	2197.9	2564.8	2323.2	2124.6	2867.0
51°	4504.9	4108.3	2955.1	2119.8	2282.1	2545.1	1928.1	2446.7	2272.2	2054.7	2820.8
52°	4471.2	4072.4	2909.2	2052.4	2232.2	2433.5	1632.1	2288.8	2214.2	1987.8	2774.3
53°	4456.1	4032.4	2859.8	1982.1	2182.7	2295.3	1296.5	2104.9	2162.9	1918.6	2723.2
54°	4448.1	3990.9	2811.5	1903.7	2129.1	2121.5	1019.4	1879.5	2110.2	1840.0	2668.3
55°	4445.4	3956.9	2768.9	1833.6	2076.6	1881.4	790.8	1614.5	2054.6	1769.6	2620.6
56°	4459.1	3934.2	2726.8	1761.5	2022.6	1624.8	609.2	1293.7	1993.8	1697.8	2574.7
57°	4485.3	3915.5	2683.9	1679.2	1958.5	1341.4	494.1	1013.3	1932.4	1624.8	2530.2
58°	4528.2	3907.1	2626.4	1601.9	1898.1	1029.6	434.1	774.6	1865.6	1544.9	2473.7
59°	4584.3	3901.9	2529.6	1526.2	1832.7	782.7	416.9	593.2	1786.5	1467.5	2384.6
60°	4645.9	3908.6	2453.6	1450.2	1763.0	595.8	406.4	458.0	1708.8	1391.4	2297.4
61°	4668.1	3943.5	2398.1	1368.8	1679.6	467.7	397.4	391.4	1625.0	1319.6	2234.2
62°	4616.5	4003.7	2323.6	1297.5	1595.8	385.4	386.0	370.5	1539.2	1241.3	2157.1
63°	4430.8	4079.5	2230.0	1230.1	1508.0	363.0	371.5	358.2	1434.5	1175.2	2061.2
64°	4197.9	4108.8	2126.2	1161.8	1418.2	350.4	357.7	347.4	1314.3	1110.9	1958.7
65°	3974.9	4003.6	2031.8	1086.1	1307.1	338.7	345.9	334.0	1167.7	1046.6	1856.9
66°	3762.6	3763.7	1935.5	1018.5	1179.9	324.5	333.6	319.3	985.7	975.7	1746.7
67°	3354.1	3480.1	1829.1	952.3	1025.0	310.0	322.8	303.1	748.1	909.3	1647.4
68°	2921.8	3226.6	1748.1	877.3	806.2	295.1	314.2	288.7	538.5	840.6	1555.7
69°	2706.3	2810.4	1682.5	806.5	587.1	279.0	305.5	274.4	377.4	764.4	1468.4
70°	2574.6	2452.1	1637.8	733.4	409.8	264.4	293.8	261.7	282.1	694.0	1405.7
71°	2453.7	2285.0	1644.4	653.5	290.4	252.4	278.6	251.2	244.8	623.9	1376.2
72°	2326.8	2185.7	1904.6	582.7	248.0	242.0	257.4	239.1	230.3	555.6	1491.9
73°	2188.2	2086.4	2217.2	516.2	230.9	228.3	237.5	224.6	215.0	482.6	1946.6
74°	2027.8	1982.0	1716.2	453.8	214.7	213.3	218.2	210.7	198.5	420.1	1646.9
75°	1864.8	1877.4	1092.6	389.4	196.9	199.2	199.9	192.2	185.1	361.6	995.6
76°	1701.6	1758.1	909.3	334.5	182.1	181.1	187.8	174.2	171.5	308.1	778.3
77°	1529.3	1628.3	806.6	285.1	167.5	163.7	176.9	155.0	158.1	260.9	679.1
78°	1369.6	1503.3	802.6	238.9	153.5	144.0	165.8	137.0	145.1	215.3	658.1
79°	1205.1	1401.6	796.8	194.8	138.2	127.0	145.1	124.5	132.4	177.5	701.1
80°	1043.1	1297.5	619.7	159.3	125.8	113.9	129.0	113.2	120.5	143.4	514.2
81°	866.4	1166.4	416.9	129.0	113.8	102.5	114.8	101.5	105.8	113.0	335.4
82°	710.3	1007.6	348.4	101.1	97.3	91.3	95.2	88.0	90.8	84.7	279.1
83°	565.2	839.1	307.3	74.5	82.0	77.4	73.3	76.0	74.2	65.0	250.1
84°	437.8	724.4	269.4	55.7	66.3	64.6	54.9	63.6	60.2	49.8	220.2
85°	308.6	613.3	229.8	41.0	52.4	52.6	44.5	47.9	46.4	36.6	187.9
86°	208.9	442.2	191.4	28.5	38.5	37.6	28.5	34.1	36.8	24.9	149.9
87°	123.7	302.0	136.1	17.4	28.0	22.9	18.2	22.1	25.7	16.3	104.3
88°	41.5	115.8	54.8	9.1	16.7	12.7	13.8	14.6	15.7	9.4	33.5
89°	3.4	2.4	3.2	3.7	7.3	7.2	11.8	11.9	8.6	4.9	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	1.6	3.4	5.1	12.3	11.9	8.0	4.0	3.5
91°	1.1	1.1	1.5	2.1	3.7	5.4	13.6	13.1	8.5	4.4	3.9
92°	1.3	1.3	1.5	1.7	4.3	6.1	14.8	13.9	9.3	4.8	4.1
93°	1.5	1.4	1.7	2.2	4.5	6.8	15.8	14.9	10.0	5.1	4.5
94°	1.5	1.4	2.0	2.4	4.9	7.4	16.9	16.0	10.6	5.5	4.7
95°	1.5	1.5	2.3	2.7	5.5	8.3	18.1	16.9	11.2	6.0	5.2
96°	1.4	1.4	2.3	2.9	5.8	8.9	19.5	18.0	11.8	6.6	5.7
97°	1.9	1.6	2.6	3.3	6.4	9.9	20.7	18.8	12.8	7.0	6.2
98°	1.7	1.7	2.8	3.5	7.0	10.6	21.6	19.9	13.5	7.5	6.6
99°	1.9	2.0	3.2	3.8	7.4	11.4	22.7	20.9	14.0	8.0	7.2
100°	1.9	2.1	3.4	4.0	8.1	12.0	24.0	21.9	15.0	8.6	7.6
101°	2.1	2.4	3.8	4.5	8.4	12.9	25.1	22.9	15.7	9.3	8.1
102°	2.2	2.6	4.0	4.9	9.2	13.8	26.1	23.8	16.6	9.8	8.5
103°	2.3	2.8	4.3	5.6	9.7	14.4	27.4	24.8	17.2	10.5	9.3
104°	2.6	3.0	4.8	5.8	10.4	15.3	28.2	25.6	18.0	11.1	9.8
105°	2.9	3.2	5.2	6.2	11.0	16.4	29.2	26.7	18.8	11.6	10.5
106°	2.9	3.8	5.6	6.7	11.6	17.0	30.5	27.6	19.4	12.3	11.0
107°	3.2	4.0	6.0	7.2	12.1	18.0	31.5	28.7	20.2	12.9	11.6
108°	3.7	4.5	6.7	7.7	13.0	19.0	32.3	29.6	20.7	13.6	12.1
109°	4.0	4.9	7.0	8.2	13.5	19.9	33.2	30.5	21.6	14.4	13.1
110°	4.3	5.6	7.8	8.7	14.1	20.8	34.3	31.5	22.3	15.0	13.7
111°	4.7	6.1	8.2	9.3	14.8	21.7	35.1	32.3	23.3	15.8	14.2
112°	5.5	6.5	8.5	9.8	15.3	22.5	36.3	32.9	23.9	16.3	14.9
113°	5.9	7.0	9.2	10.3	16.1	23.2	36.7	33.7	24.5	17.3	15.7
114°	6.3	7.7	9.7	10.9	16.9	24.0	37.5	34.4	25.2	17.7	16.2
115°	6.7	8.2	10.1	11.6	17.6	24.9	38.4	35.0	25.9	18.5	16.9
116°	7.4	8.9	10.8	11.9	18.2	25.6	39.0	35.6	26.8	19.4	17.6
117°	8.1	9.4	11.3	12.7	18.9	26.5	39.5	36.3	27.5	20.0	18.0
118°	8.5	10.0	11.8	13.4	19.6	27.1	40.1	36.5	27.8	20.5	18.9
119°	9.5	10.7	12.3	13.9	20.3	27.5	40.7	36.9	28.6	21.3	19.6
120°	10.2	11.4	13.0	14.6	20.8	28.5	41.1	37.7	29.2	22.0	20.2
121°	10.8	12.3	13.5	15.2	21.6	29.2	41.4	38.1	29.7	22.7	20.9
122°	11.6	12.8	14.1	15.8	22.3	29.6	41.6	38.6	30.5	23.3	21.4
123°	12.3	13.6	14.8	16.3	23.1	30.6	42.0	39.0	30.9	24.0	22.1
124°	13.3	14.2	15.3	16.9	23.7	31.3	42.5	39.4	31.4	24.7	22.7
125°	14.1	15.0	16.0	17.7	24.4	31.8	42.8	39.8	32.0	25.2	23.6
126°	14.8	15.7	16.6	18.4	25.0	32.4	43.0	40.0	32.5	25.9	24.2
127°	15.5	16.3	17.2	19.0	25.5	33.0	43.2	40.3	33.0	26.5	24.9
128°	16.1	17.0	17.9	19.6	26.2	33.7	43.4	40.8	33.6	27.1	25.4
129°	17.1	17.5	18.5	20.2	26.8	34.2	43.6	41.0	34.0	27.7	26.1
130°	17.8	18.1	19.1	20.7	27.4	34.8	43.8	41.2	34.4	28.1	26.8
131°	18.3	18.6	19.7	21.4	27.9	35.4	43.8	41.6	34.9	28.9	27.2
132°	19.0	19.4	20.4	22.0	28.5	35.8	44.1	41.9	35.1	29.3	27.6
133°	19.7	20.1	20.8	22.9	29.1	36.3	44.3	42.1	35.4	30.1	28.2
134°	20.4	20.7	21.5	23.3	29.8	37.1	44.4	42.2	35.9	30.6	29.0



REPORT NUMBER: P1449843  
 CATALOG NUMBER: TWC100\_T4\_40W\_4000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	20.9	21.3	22.1	24.0	30.3	37.6	44.7	42.3	36.4	31.1	29.6
136°	21.5	21.9	22.9	24.5	30.8	38.0	44.7	42.6	36.6	31.5	30.0
137°	22.1	22.4	23.4	25.2	31.2	38.5	44.6	42.8	37.1	32.0	30.6
138°	22.7	23.3	24.1	25.7	31.4	38.7	44.6	42.6	37.3	32.6	31.1
139°	23.3	23.7	24.6	26.6	32.0	39.0	44.7	42.8	37.6	33.1	31.4
140°	23.8	24.3	25.3	27.1	32.4	39.3	44.8	43.0	37.9	33.6	32.0
141°	24.4	25.0	25.8	27.4	32.8	39.5	44.5	43.0	38.3	34.1	32.4
142°	25.0	25.2	26.7	28.0	33.2	40.0	44.6	42.9	38.6	34.4	32.8
143°	25.4	26.1	27.4	28.6	33.8	40.1	44.6	43.0	38.7	34.8	33.1
144°	26.0	26.6	27.6	29.1	34.4	40.3	44.5	43.0	39.1	35.4	33.7
145°	27.0	27.5	28.4	29.6	34.4	40.3	44.4	43.0	39.4	35.5	34.1
146°	27.5	28.2	28.9	30.1	34.9	40.6	44.5	43.3	39.6	36.1	34.6
147°	28.2	28.6	29.5	30.5	35.3	40.8	44.4	43.1	39.9	36.6	35.2
148°	29.0	29.6	29.8	31.2	35.7	40.8	44.3	43.1	40.2	36.8	35.5
149°	29.7	29.8	30.6	31.7	36.1	40.9	44.5	43.4	40.3	37.2	35.7
150°	30.5	30.6	31.0	32.1	36.5	41.3	44.3	43.5	40.7	37.7	36.1
151°	31.1	31.3	31.5	32.6	36.8	41.3	44.4	43.5	40.9	38.1	36.5
152°	31.9	31.8	31.9	33.1	37.3	41.6	44.2	43.4	41.0	38.4	37.1
153°	32.2	32.3	32.2	33.6	37.4	41.5	43.9	43.4	41.4	38.8	37.3
154°	32.9	32.9	32.9	34.0	37.8	41.6	44.1	43.5	41.4	38.8	37.5
155°	33.6	33.1	33.5	34.5	38.0	41.8	44.1	43.4	41.7	39.3	37.8
156°	34.2	33.8	33.9	34.9	38.4	41.9	43.7	43.4	41.8	39.5	38.1
157°	34.4	34.1	34.3	35.3	38.6	42.1	43.5	43.3	41.7	39.7	38.5
158°	34.8	34.5	34.6	35.8	39.1	42.3	43.5	43.3	41.8	40.0	38.8
159°	35.2	34.8	35.1	36.2	39.3	42.3	43.4	43.2	42.0	40.3	39.1
160°	35.6	35.1	35.3	36.4	39.7	42.3	43.3	43.3	42.1	40.4	39.3
161°	36.0	35.5	35.7	36.9	39.8	42.5	43.1	43.0	42.2	40.8	39.5
162°	36.3	35.8	36.3	37.3	40.1	42.5	42.9	43.1	42.3	40.8	39.8
163°	36.4	36.1	36.4	37.8	40.3	42.6	42.9	43.1	42.2	41.1	40.0
164°	36.8	36.2	36.7	38.2	40.8	42.6	42.9	42.9	42.4	41.2	40.3
165°	37.3	37.1	37.4	38.4	41.0	42.9	42.7	42.9	42.4	41.4	40.6
166°	37.5	37.2	37.7	38.7	41.0	42.8	42.7	42.8	42.5	41.5	40.7
167°	37.8	37.8	38.0	39.1	41.3	42.9	42.6	42.9	42.5	41.6	40.9
168°	38.0	38.0	38.5	39.2	41.5	42.9	42.5	42.7	42.5	41.8	41.3
169°	38.4	38.4	38.8	39.7	41.8	43.0	42.6	42.7	42.5	42.0	41.3
170°	38.6	38.5	39.1	40.1	41.8	42.9	42.5	42.8	42.7	42.2	41.6
171°	39.0	38.9	39.5	40.4	42.0	43.0	42.8	42.7	42.5	42.3	41.7
172°	39.5	39.2	39.7	40.8	42.1	42.9	42.5	42.6	42.5	42.5	41.8
173°	39.9	39.5	39.9	41.2	42.2	42.8	42.8	42.9	42.5	42.6	42.0
174°	40.2	39.8	40.3	41.4	42.3	43.0	42.7	42.7	42.4	42.8	42.3
175°	40.7	40.1	41.0	41.5	42.7	43.0	42.6	42.3	42.5	42.7	42.4
176°	41.1	40.7	40.9	42.0	42.7	43.2	42.6	42.5	42.4	42.6	42.6
177°	41.3	40.9	41.4	42.2	42.7	43.1	42.5	42.2	42.3	42.7	42.7
178°	41.6	41.3	41.5	42.2	43.0	43.1	42.4	42.0	42.4	42.8	42.7
179°	41.8	41.5	41.8	42.4	42.9	42.9	42.4	42.1	42.3	42.9	42.7



REPORT NUMBER: P1449843  
CATALOG NUMBER: TWC100\_T4\_40W\_4000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4



REPORT NUMBER: P1449843  
CATALOG NUMBER: TWC100\_T4\_40W\_4000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	4084.2	4084.2
1°	4105.0	4115.0
2°	4121.6	4136.4
3°	4139.4	4156.8
4°	4155.0	4177.4
5°	4170.4	4196.0
6°	4187.5	4216.1
7°	4203.6	4239.4
8°	4220.0	4266.2
9°	4236.6	4289.4
10°	4250.9	4310.7
11°	4265.4	4332.6
12°	4284.4	4357.3
13°	4294.5	4374.7
14°	4305.7	4394.8
15°	4307.9	4408.1
16°	4318.2	4426.4
17°	4329.4	4445.7
18°	4334.8	4469.7
19°	4344.2	4483.4
20°	4347.5	4494.1
21°	4345.7	4502.9
22°	4341.2	4505.6
23°	4336.3	4512.6
24°	4330.5	4520.3
25°	4325.5	4529.8
26°	4317.6	4535.8
27°	4310.7	4544.1
28°	4304.2	4551.3
29°	4295.0	4565.4
30°	4294.1	4574.6
31°	4287.0	4583.1
32°	4281.3	4591.3
33°	4275.9	4595.9
34°	4265.6	4604.0
35°	4262.8	4610.7
36°	4260.4	4616.2
37°	4258.8	4626.9
38°	4249.8	4630.6
39°	4242.8	4633.2
40°	4232.1	4631.9
41°	4219.6	4629.4
42°	4206.8	4628.0
43°	4194.4	4632.4
44°	4181.3	4646.2



REPORT NUMBER: P1449843  
CATALOG NUMBER: TWC100\_T4\_40W\_4000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	4167.1	4640.1
46°	4162.6	4577.0
47°	4155.0	4553.1
48°	4099.7	4565.0
49°	4038.6	4554.6
50°	4029.2	4531.4
51°	4015.4	4504.9
52°	3983.3	4471.2
53°	3932.2	4456.1
54°	3890.6	4448.1
55°	3854.9	4445.4
56°	3827.5	4459.1
57°	3808.0	4485.3
58°	3798.3	4528.2
59°	3790.3	4584.3
60°	3803.7	4645.9
61°	3849.6	4668.1
62°	3916.2	4616.5
63°	3979.1	4430.8
64°	3969.9	4197.9
65°	3791.9	3974.9
66°	3530.9	3762.6
67°	3291.8	3354.1
68°	2963.8	2921.8
69°	2527.7	2706.3
70°	2285.1	2574.6
71°	2170.9	2453.7
72°	2058.7	2326.8
73°	1960.3	2188.2
74°	1860.2	2027.8
75°	1752.4	1864.8
76°	1612.1	1701.6
77°	1491.6	1529.3
78°	1388.0	1369.6
79°	1289.6	1205.1
80°	1176.1	1043.1
81°	1056.1	866.4
82°	887.7	710.3
83°	740.0	565.2
84°	628.7	437.8
85°	479.9	308.6
86°	361.3	208.9
87°	199.2	123.7
88°	11.6	41.5
89°	1.9	3.4



REPORT NUMBER: P1449843  
CATALOG NUMBER: TWC100\_T4\_40W\_4000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	2.1	1.2
91°	2.2	1.1
92°	2.3	1.3
93°	2.7	1.5
94°	2.7	1.5
95°	3.1	1.5
96°	3.6	1.4
97°	3.7	1.9
98°	4.2	1.7
99°	4.7	1.9
100°	5.1	1.9
101°	5.7	2.1
102°	6.3	2.2
103°	6.9	2.3
104°	7.4	2.6
105°	7.9	2.9
106°	8.5	2.9
107°	9.4	3.2
108°	9.9	3.7
109°	10.5	4.0
110°	11.3	4.3
111°	12.0	4.7
112°	12.7	5.5
113°	13.6	5.9
114°	14.3	6.3
115°	15.2	6.7
116°	16.0	7.4
117°	16.8	8.1
118°	17.4	8.5
119°	18.2	9.5
120°	19.1	10.2
121°	20.0	10.8
122°	20.7	11.6
123°	21.4	12.3
124°	22.2	13.3
125°	22.9	14.1
126°	23.6	14.8
127°	24.2	15.5
128°	24.9	16.1
129°	25.4	17.1
130°	26.1	17.8
131°	26.8	18.3
132°	27.5	19.0
133°	27.7	19.7
134°	28.4	20.4



REPORT NUMBER: P1449843  
CATALOG NUMBER: TWC100\_T4\_40W\_4000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
135°	29.0	20.9
136°	29.4	21.5
137°	29.8	22.1
138°	30.6	22.7
139°	31.1	23.3
140°	31.7	23.8
141°	31.9	24.4
142°	32.4	25.0
143°	32.8	25.4
144°	33.5	26.0
145°	33.9	27.0
146°	34.2	27.5
147°	34.4	28.2
148°	34.8	29.0
149°	35.1	29.7
150°	35.6	30.5
151°	35.8	31.1
152°	36.2	31.9
153°	36.4	32.2
154°	36.6	32.9
155°	36.9	33.6
156°	37.2	34.2
157°	37.5	34.4
158°	37.8	34.8
159°	38.0	35.2
160°	38.3	35.6
161°	38.3	36.0
162°	38.7	36.3
163°	39.0	36.4
164°	39.2	36.8
165°	39.5	37.3
166°	39.7	37.5
167°	39.8	37.8
168°	40.1	38.0
169°	40.4	38.4
170°	40.6	38.6
171°	41.1	39.0
172°	41.1	39.5
173°	41.4	39.9
174°	41.8	40.2
175°	41.9	40.7
176°	42.1	41.1
177°	42.4	41.3
178°	42.8	41.6
179°	42.9	41.8

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

Scaled Data Report



REPORT NUMBER: P1449843  
CATALOG NUMBER: TWC100\_T4\_40W\_4000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
180°	42.4	42.4

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

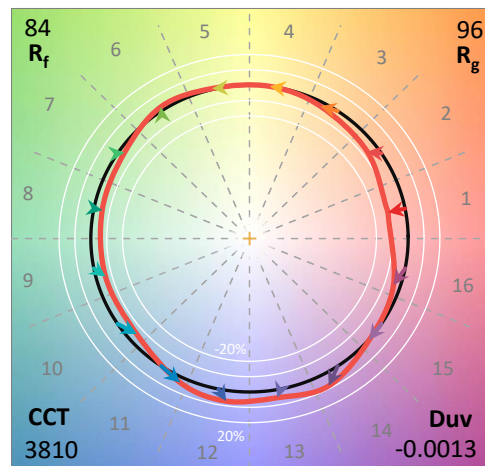
**Test Information**

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



**Test Conditions**

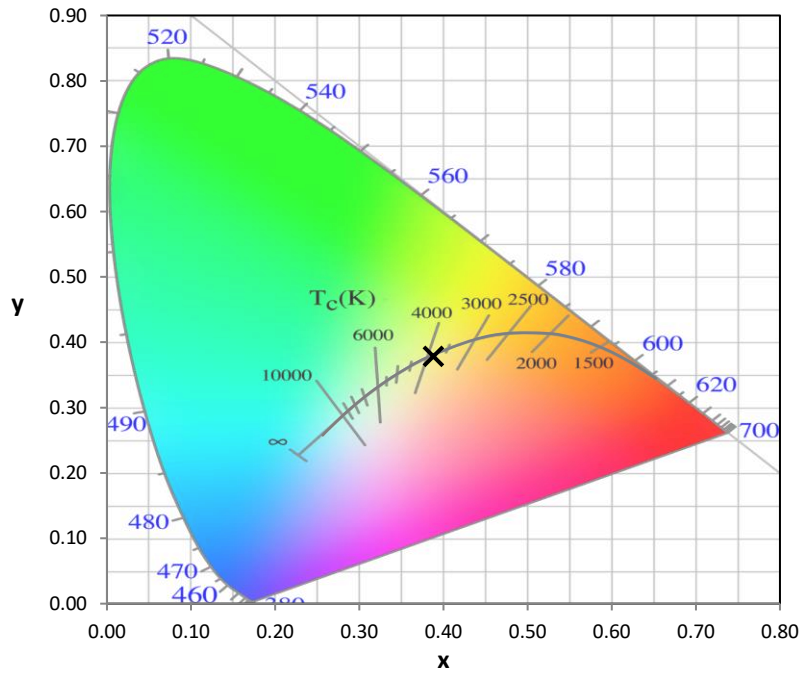
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-2

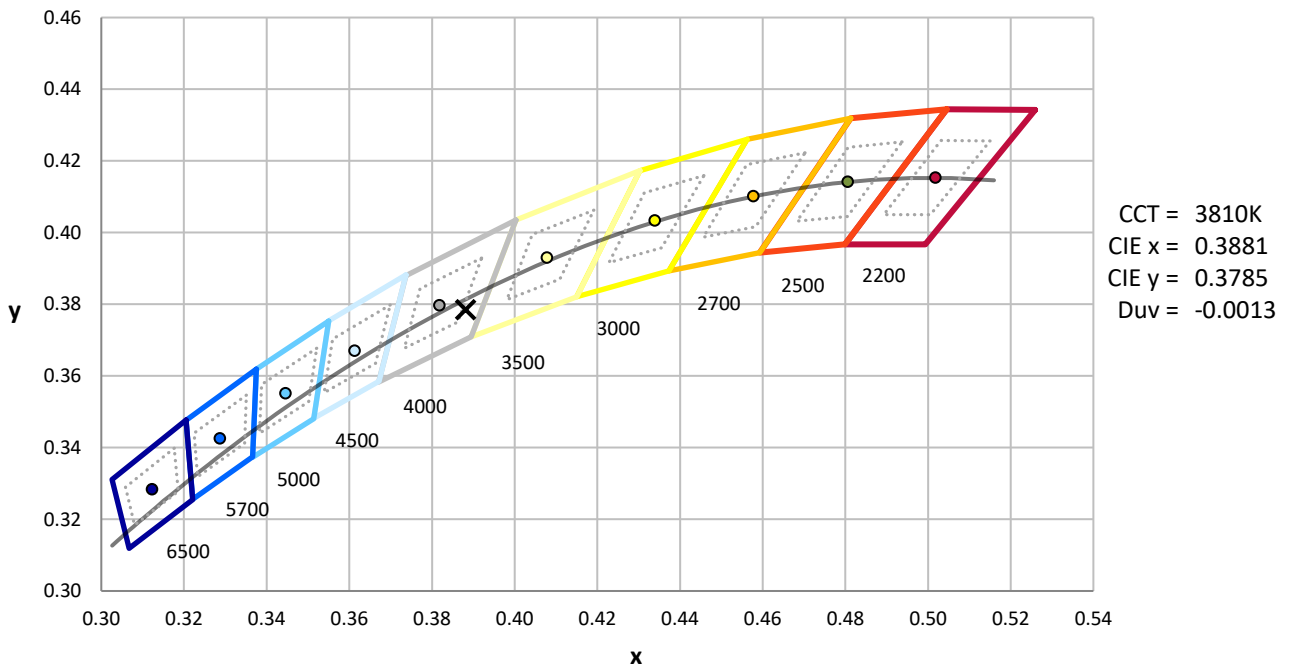
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



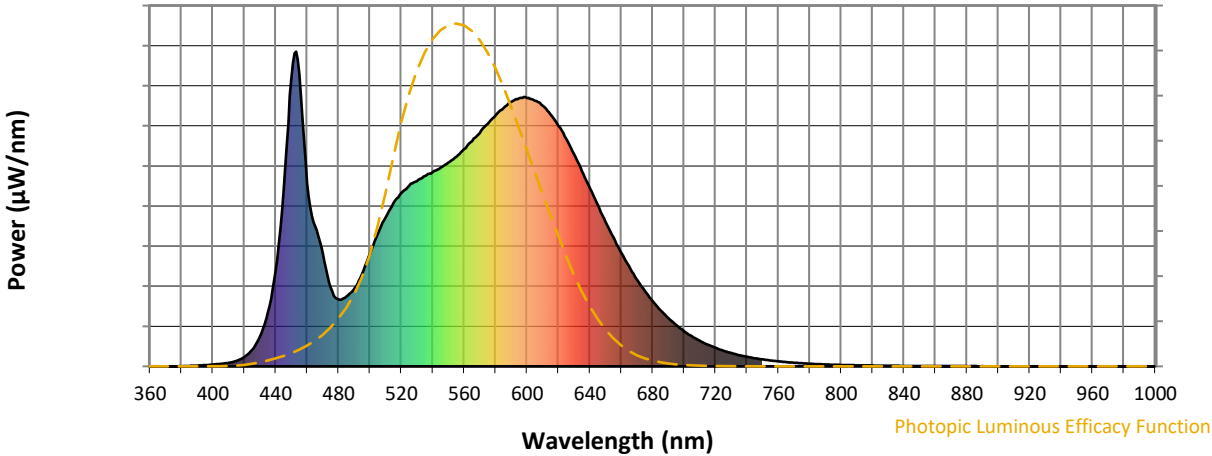
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

**Photopic Flux vs. Wavelength**

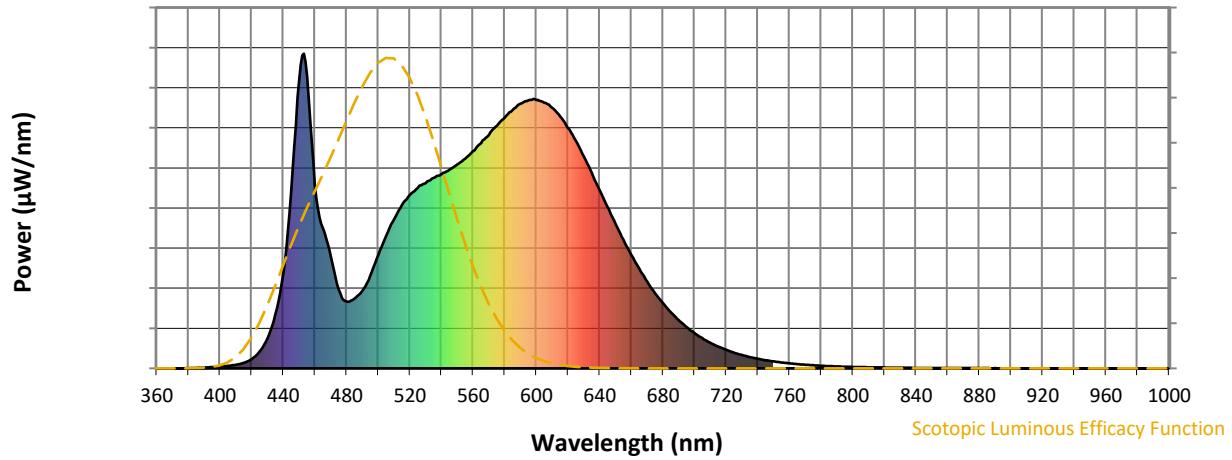


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /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**



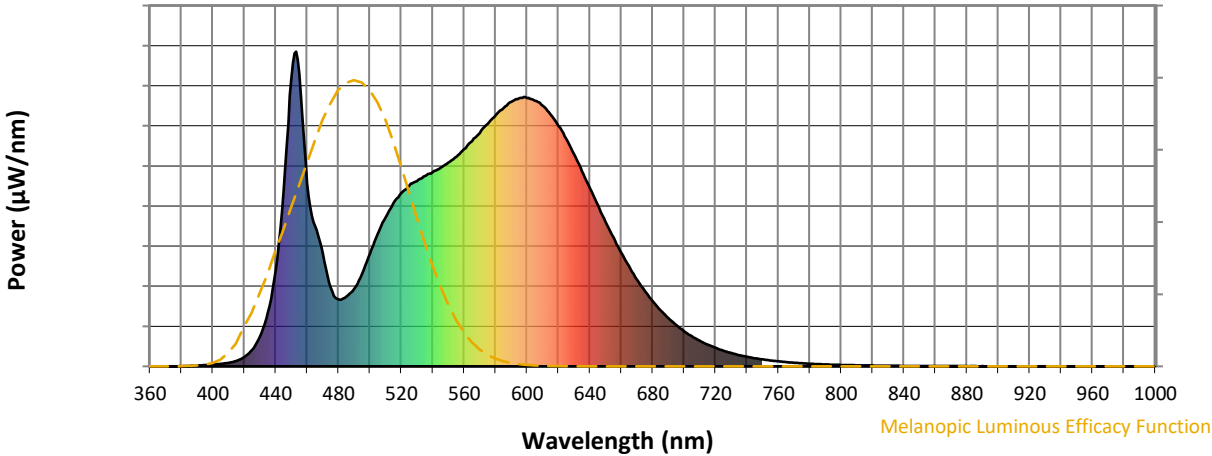
**Scotopic Lumens: NR**

**S/P: 1.64**

λ (nm)	Power W <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	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



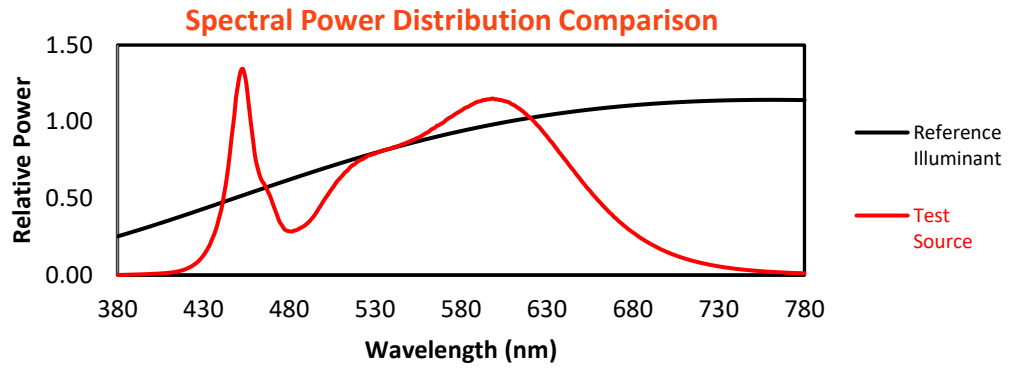
Melanopic Lumens: NR

M/P: 3.35

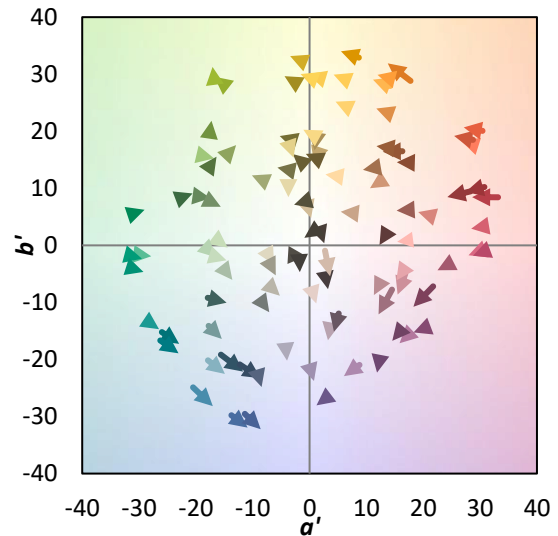
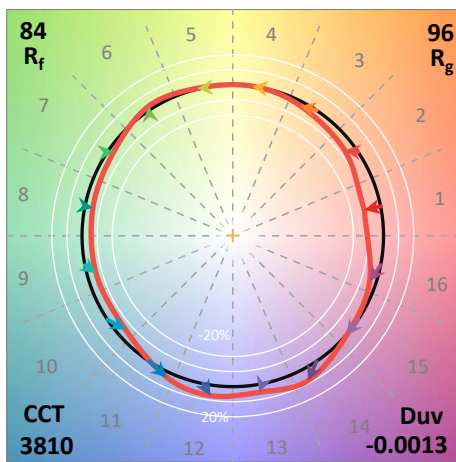
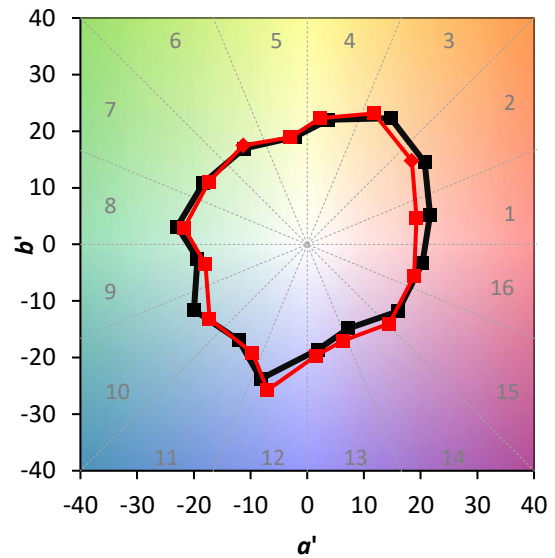
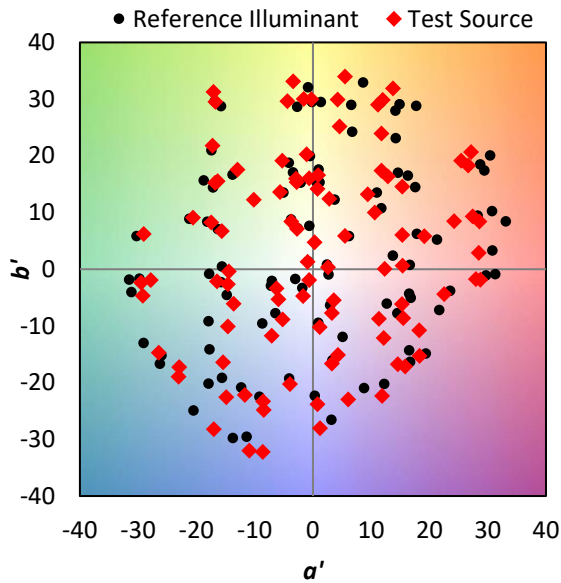
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	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			

**Summary**

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

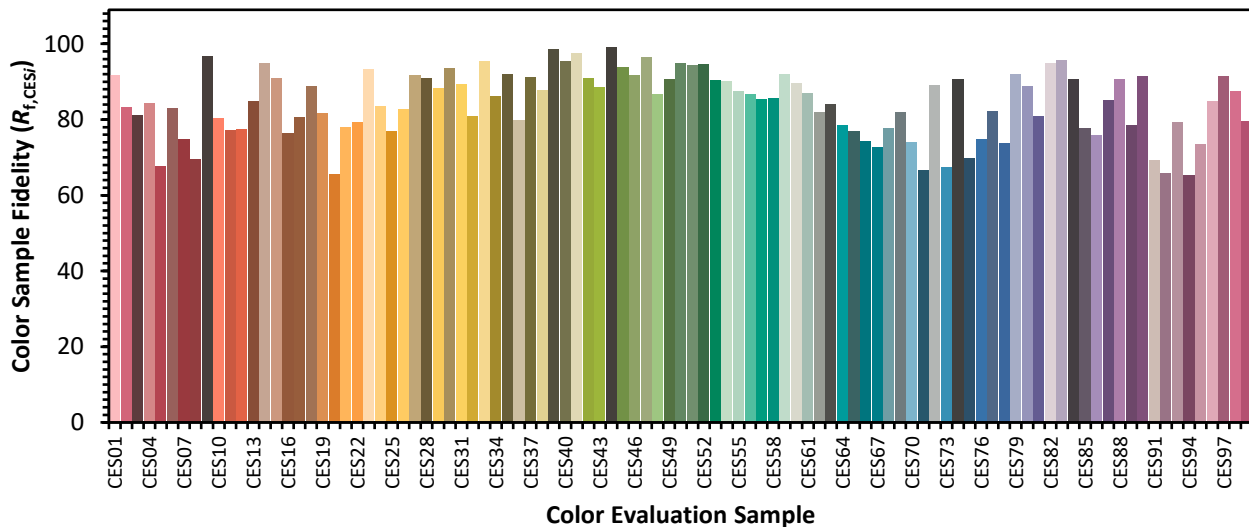


**Color Vector Graphics**

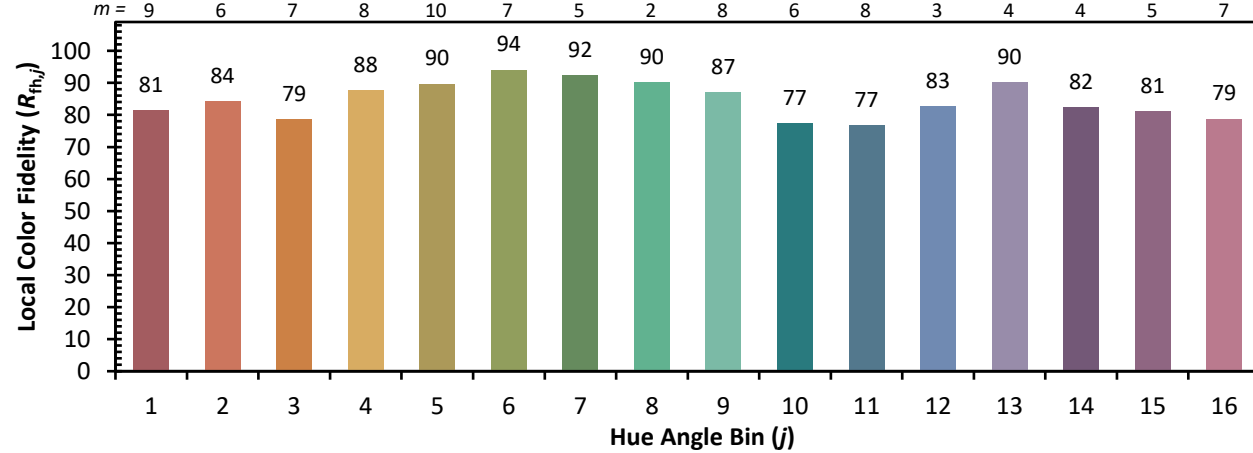
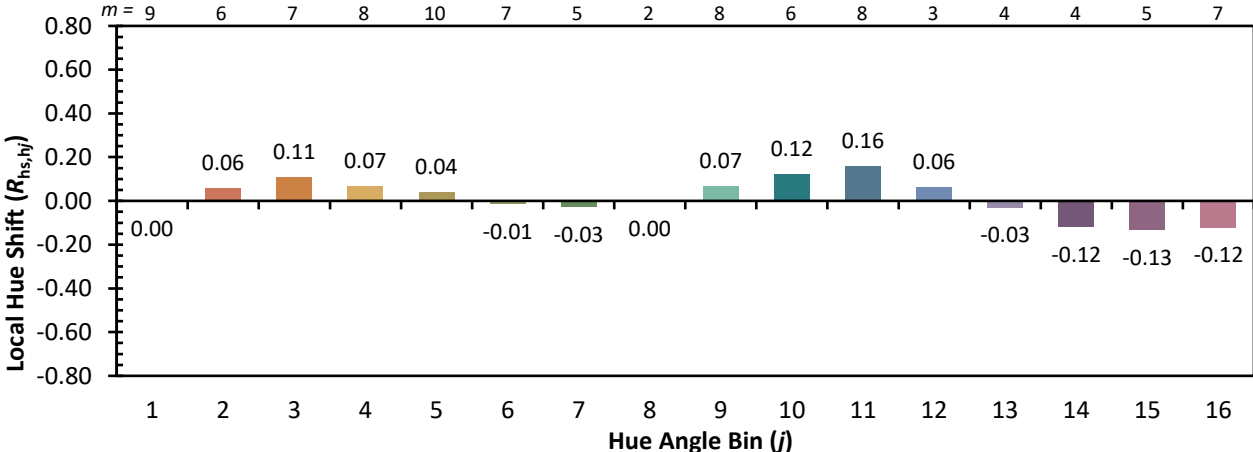
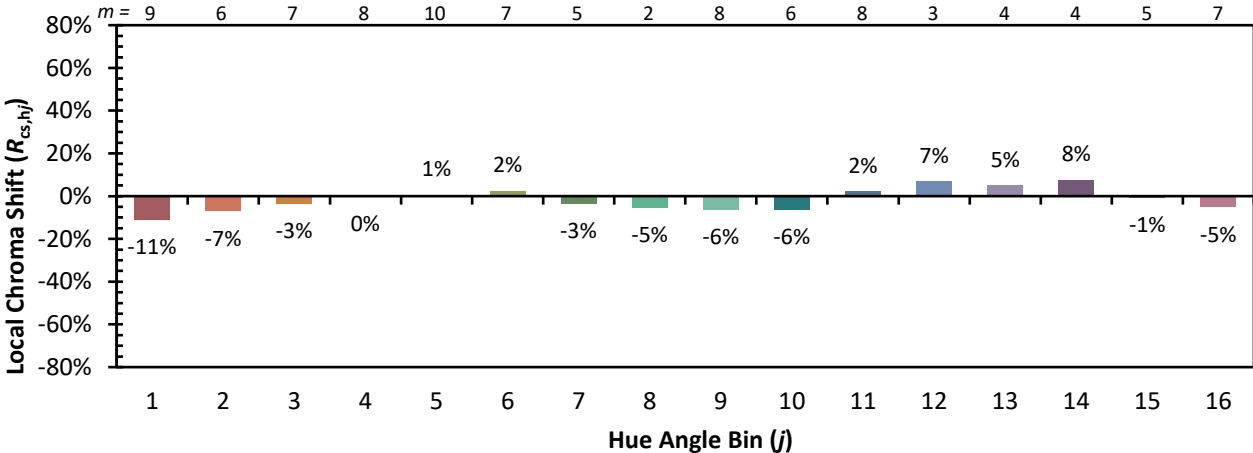


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

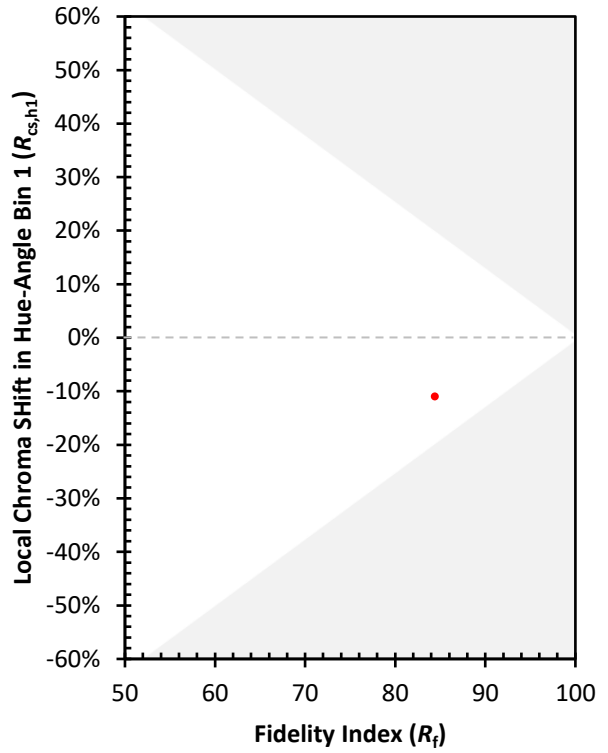
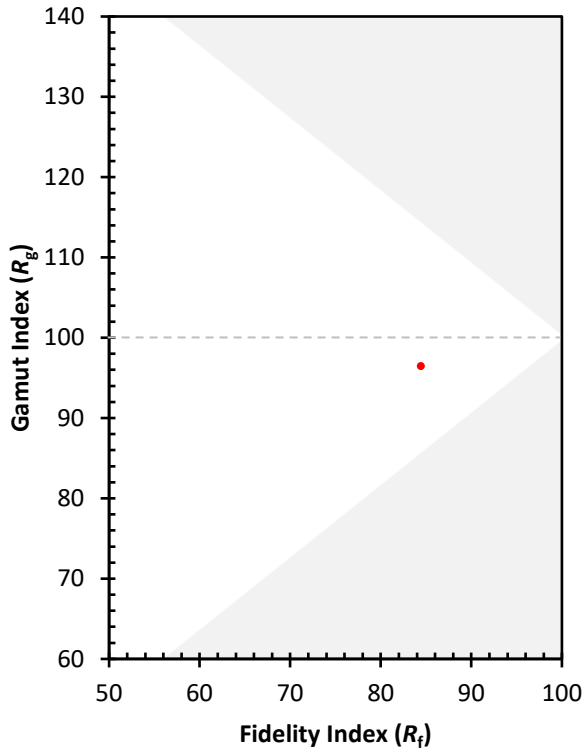
CES01 = 86	CES26 = 83	CES51 = 94	CES76 = 75
CES02 = 62	CES27 = 92	CES52 = 95	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 90	CES78 = 74
CES04 = 70	CES29 = 88	CES54 = 90	CES79 = 92
CES05 = 48	CES30 = 94	CES55 = 88	CES80 = 89
CES06 = 51	CES31 = 89	CES56 = 87	CES81 = 81
CES07 = 41	CES32 = 81	CES57 = 86	CES82 = 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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)