

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: P1449841

Luminaire Tested: **TWC100\_T4\_100W\_5000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449841  
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\_100W\_5000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 100W  
5000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16162 lumens  
Efficiency: N/A  
Efficacy: 164.2 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

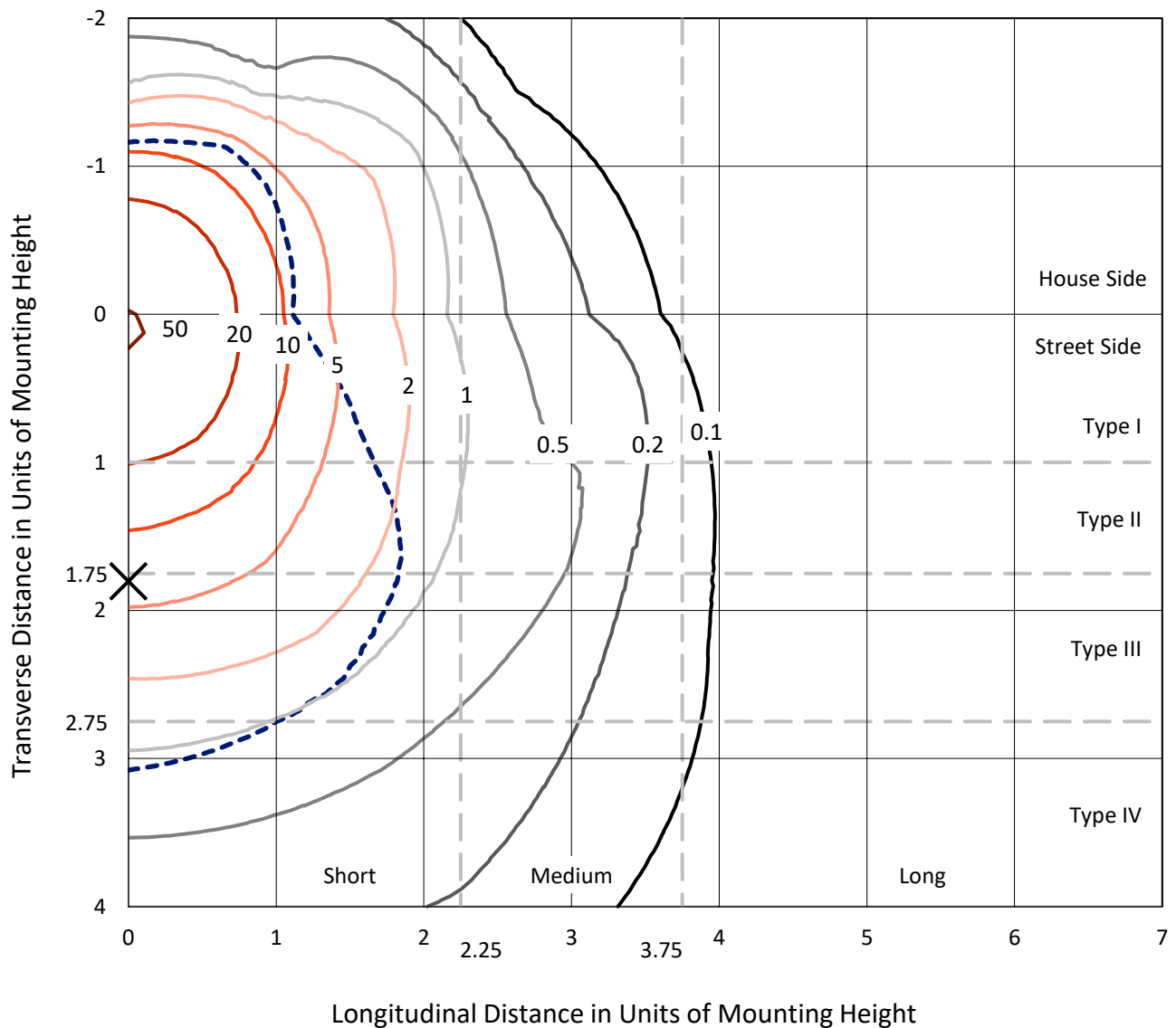
Input Watts (W): 98.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

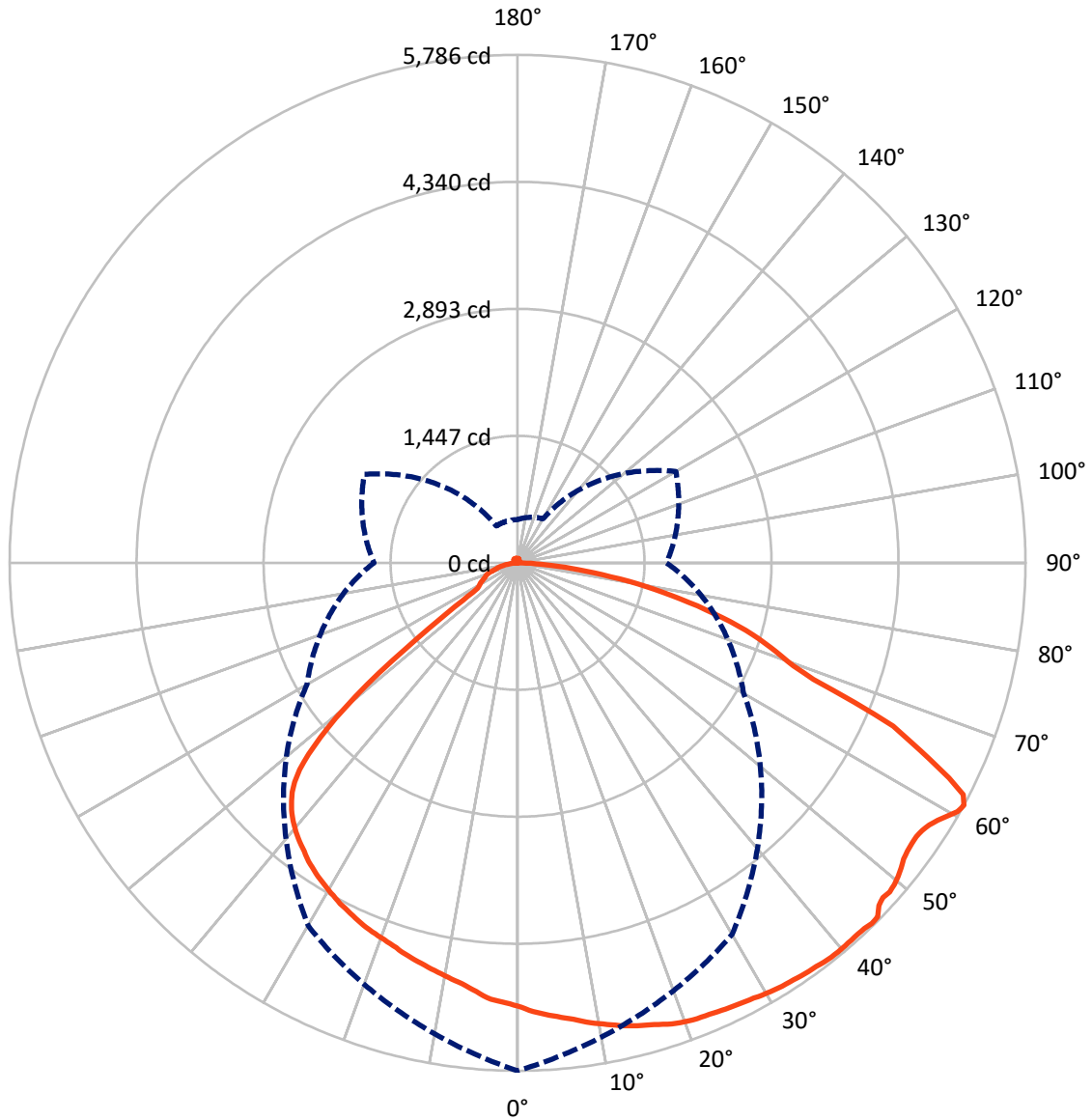
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 51.4 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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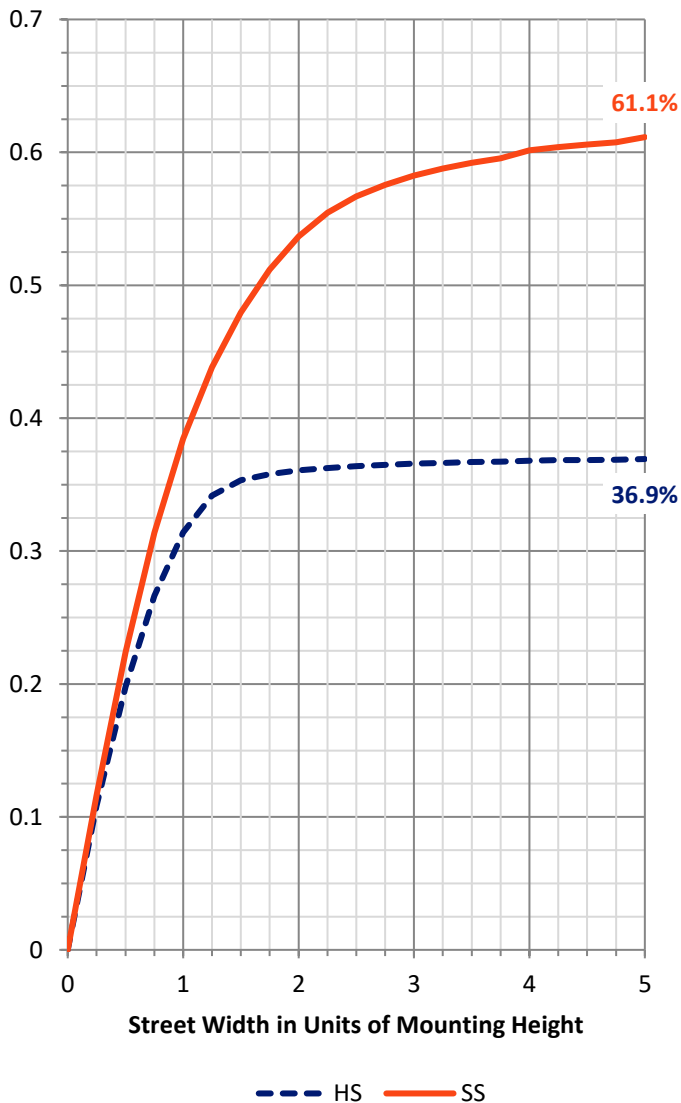
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6011.3	107.3	6118.6
	% Fixture	37.2	0.7	37.9
<b>Street Side</b>	Lumens	9976.2	67.2	10043.4
	% Fixture	61.7	0.4	62.1
<b>Total</b>	Lumens	15987.5	174.5	16162.0
	% Fixture	98.9	1.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.1	3.0
10°-20°	1399.5	8.7
20°-30°	2184.1	13.5
30°-40°	2758.2	17.1
40°-50°	3040.7	18.8
50°-60°	2747.0	17.0
60°-70°	2075.2	12.8
70°-80°	1050.1	6.5
80°-90°	251.5	1.6
90°-100°	9.4	0.1
100°-110°	16.4	0.1
110°-120°	23.4	0.1
120°-130°	28.1	0.2
130°-140°	29.4	0.2
140°-150°	27.0	0.2
150°-160°	21.8	0.1
160°-170°	14.1	0.1
170°-180°	4.9	0.0
0°-90°	15987.5	98.9
0°-180°	16162.0	100.0

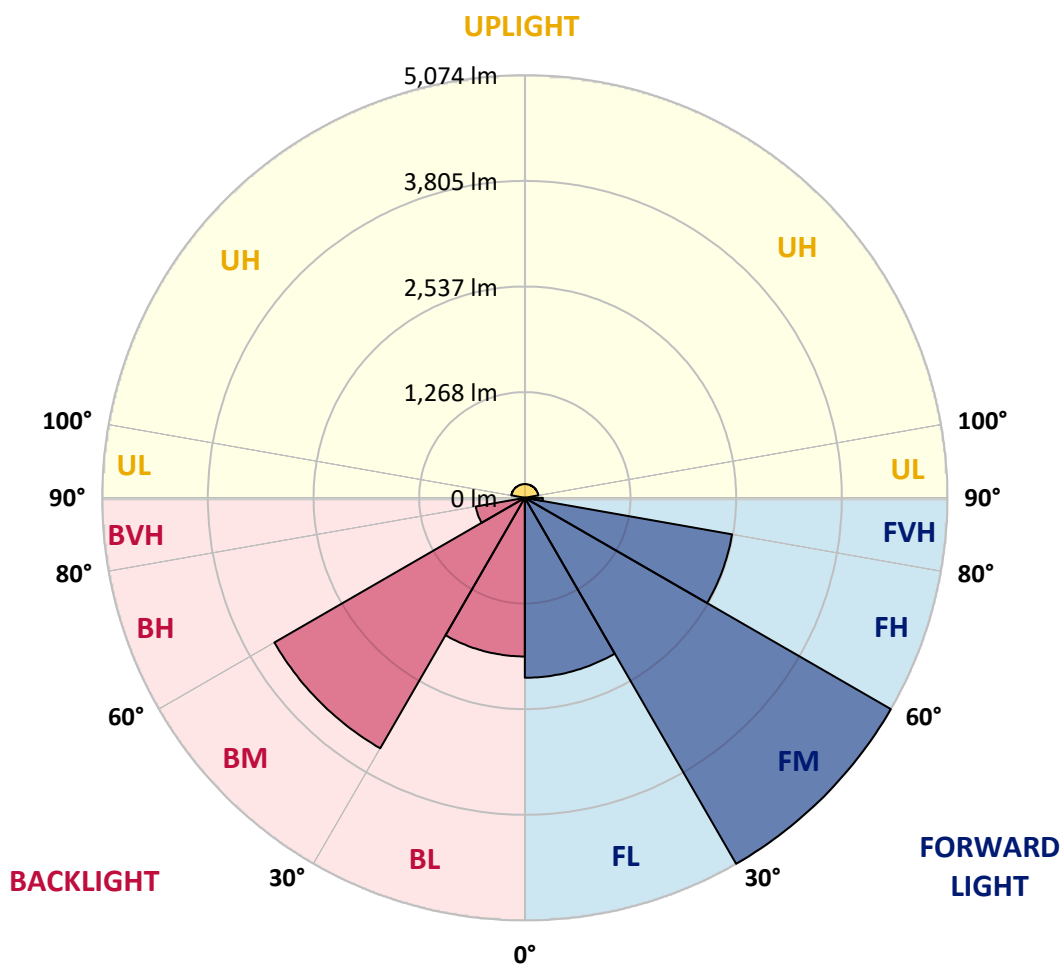


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2160.0	13.4			
FM	(30°-60°)	5073.7	31.4			
FH	(60°-80°)	2526.8	15.6			G2/5000
FVH	(80°-90°)	215.7	1.3			G2/225
BL	(0°-30°)	1904.7	11.8	B3/2500		
BM	(30°-60°)	3472.3	21.5	B3/5000		
BH	(60°-80°)	598.6	3.7	B2/1000		G2/1000
BVH	(80°-90°)	35.7	0.2			G1/100
UL	(90°-100°)	9.4	0.1		U1/10	
UH	(100°-180°)	165.1	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°	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4
1°	5100.7	5092.9	5078.5	5061.7	5056.1	5035.7	5036.9	5035.5	5050.3	5057.9	5079.6
2°	5127.1	5115.2	5086.6	5058.9	5033.4	5013.3	5014.0	5013.5	5035.0	5060.5	5081.8
3°	5152.4	5135.9	5097.5	5058.3	5017.9	4996.9	4997.5	4994.0	5008.5	5054.0	5089.0
4°	5178.0	5157.4	5105.5	5051.3	5001.7	4978.6	4981.4	4981.5	4993.1	5044.4	5097.7
5°	5201.1	5174.3	5112.5	5044.8	4983.4	4961.7	4948.2	4960.2	4975.4	5034.1	5100.0
6°	5225.9	5193.1	5122.5	5035.6	4965.4	4939.3	4904.4	4925.6	4958.2	5012.1	5112.1
7°	5254.8	5214.2	5127.1	5023.5	4949.6	4897.2	4870.6	4878.4	4940.2	4998.1	5114.3
8°	5288.1	5238.9	5130.9	5009.1	4930.3	4857.8	4836.8	4845.6	4918.5	4980.6	5115.6
9°	5316.8	5261.9	5133.6	4985.5	4908.7	4821.9	4813.1	4818.6	4894.1	4962.9	5116.1
10°	5343.2	5284.5	5135.7	4968.7	4884.7	4794.0	4788.2	4792.9	4859.4	4944.8	5114.3
11°	5370.3	5303.2	5133.3	4948.1	4856.0	4764.9	4763.3	4759.0	4823.3	4922.2	5109.5
12°	5401.0	5326.6	5128.1	4924.7	4815.0	4739.2	4739.6	4733.1	4787.0	4897.4	5105.0
13°	5422.5	5341.4	5124.9	4907.4	4778.3	4713.7	4718.2	4707.3	4748.3	4866.4	5102.1
14°	5447.4	5353.8	5122.2	4880.2	4738.5	4688.0	4693.7	4688.3	4703.8	4837.7	5089.4
15°	5463.9	5363.7	5115.8	4852.9	4699.2	4662.8	4672.4	4661.9	4665.6	4808.4	5080.0
16°	5486.6	5379.2	5113.4	4813.5	4661.4	4636.5	4648.8	4633.9	4626.5	4776.2	5068.0
17°	5510.5	5393.3	5105.0	4782.4	4622.1	4600.2	4627.9	4606.1	4589.2	4736.9	5060.1
18°	5540.3	5405.6	5092.9	4750.0	4581.3	4572.1	4596.9	4569.9	4553.9	4701.0	5045.3
19°	5557.2	5421.9	5071.2	4715.5	4542.8	4542.8	4575.7	4542.1	4515.1	4664.1	5027.7
20°	5570.5	5429.7	5053.1	4676.7	4495.8	4516.0	4553.1	4515.9	4476.7	4627.1	4995.4
21°	5581.3	5431.1	5032.3	4637.7	4454.1	4491.4	4535.1	4489.6	4424.8	4588.4	4969.5
22°	5584.8	5424.3	5008.5	4598.3	4412.8	4464.6	4518.0	4463.2	4385.7	4546.6	4940.8
23°	5593.5	5418.9	4980.6	4554.0	4366.7	4436.8	4497.1	4436.8	4344.0	4504.8	4912.2
24°	5602.9	5414.5	4953.6	4510.8	4325.0	4402.6	4474.5	4410.7	4302.4	4450.3	4884.5
25°	5614.8	5409.3	4924.1	4464.2	4281.3	4376.2	4448.9	4383.6	4258.4	4403.8	4853.0
26°	5622.2	5406.1	4895.5	4418.1	4237.9	4349.6	4424.9	4353.7	4214.0	4354.6	4817.8
27°	5632.5	5402.4	4863.5	4359.3	4192.3	4321.8	4398.7	4324.0	4171.5	4301.3	4783.5
28°	5641.4	5395.2	4827.6	4306.6	4147.8	4287.5	4376.7	4291.6	4121.0	4246.5	4740.9
29°	5658.9	5388.6	4790.7	4251.5	4101.7	4252.9	4347.0	4252.9	4075.5	4190.0	4701.6
30°	5670.3	5382.5	4742.0	4196.4	4053.5	4219.6	4319.6	4220.3	4027.4	4132.5	4659.8
31°	5680.9	5374.3	4703.3	4139.3	3995.4	4187.5	4291.8	4188.9	3979.2	4069.2	4608.5
32°	5690.9	5368.8	4663.3	4083.5	3946.0	4155.8	4261.7	4156.3	3922.0	4009.0	4566.1
33°	5696.7	5355.4	4623.1	4026.7	3896.7	4123.7	4234.0	4124.1	3873.4	3948.3	4521.3
34°	5706.8	5354.9	4581.0	3968.6	3847.6	4086.6	4201.4	4088.4	3823.1	3876.5	4474.1
35°	5715.1	5351.3	4535.6	3899.4	3794.6	4050.8	4167.8	4052.4	3771.6	3811.0	4427.4
36°	5721.8	5350.8	4487.4	3833.6	3744.2	4004.7	4132.5	4013.0	3716.6	3741.6	4374.1
37°	5735.1	5354.9	4437.4	3764.2	3689.8	3965.6	4087.2	3965.6	3660.6	3669.5	4321.4
38°	5739.7	5347.5	4376.0	3693.0	3631.9	3925.6	4050.5	3924.4	3602.9	3593.0	4267.7
39°	5742.9	5340.4	4322.3	3609.4	3564.7	3884.6	4011.4	3883.2	3545.4	3519.1	4199.1
40°	5741.3	5329.0	4267.7	3532.8	3505.0	3843.8	3968.9	3837.9	3480.9	3442.3	4141.2
41°	5738.1	5312.2	4214.0	3456.0	3447.9	3800.9	3921.0	3793.9	3423.1	3364.9	4081.9
42°	5736.5	5298.5	4152.8	3375.7	3385.5	3756.8	3868.4	3747.6	3365.3	3290.0	4021.4
43°	5742.0	5284.4	4097.5	3299.3	3327.1	3711.4	3810.4	3701.4	3307.2	3202.7	3959.6
44°	5759.1	5270.2	4042.6	3219.1	3268.6	3656.1	3740.0	3647.1	3245.0	3127.6	3902.6



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	5751.4	5259.9	3990.0	3138.6	3209.2	3607.1	3664.8	3591.6	3184.5	3049.5	3843.0
46°	5673.2	5254.4	3936.4	3045.4	3147.0	3554.2	3560.2	3529.1	3126.3	2963.4	3787.7
47°	5643.6	5253.4	3884.7	2963.5	3086.4	3486.8	3423.6	3460.7	3060.5	2882.4	3727.7
48°	5658.4	5216.4	3832.3	2881.1	3024.7	3419.1	3229.0	3377.3	3001.0	2801.4	3673.0
49°	5645.5	5120.9	3780.0	2798.7	2964.1	3346.6	3001.0	3292.4	2940.3	2722.7	3617.5
50°	5616.7	5095.0	3716.1	2711.5	2901.3	3266.7	2724.3	3179.1	2879.6	2633.5	3553.7
51°	5583.9	5092.2	3662.9	2627.5	2828.7	3154.6	2390.0	3032.7	2816.4	2546.9	3496.4
52°	5542.1	5047.8	3606.0	2543.9	2766.8	3016.4	2023.1	2837.0	2744.5	2464.0	3438.7
53°	5523.4	4998.2	3544.8	2456.8	2705.5	2845.0	1607.0	2609.0	2681.0	2378.1	3375.5
54°	5513.5	4946.8	3484.9	2359.6	2639.0	2629.7	1263.6	2329.6	2615.6	2280.8	3307.4
55°	5510.2	4904.6	3432.1	2272.7	2573.9	2332.0	980.1	2001.2	2546.8	2193.5	3248.3
56°	5527.1	4876.5	3379.9	2183.4	2507.1	2014.0	755.1	1603.6	2471.4	2104.5	3191.4
57°	5559.5	4853.3	3326.7	2081.4	2427.6	1662.7	612.5	1256.0	2395.2	2014.0	3136.3
58°	5612.7	4843.0	3255.4	1985.6	2352.7	1276.3	538.1	960.1	2312.4	1914.9	3066.2
59°	5682.3	4836.5	3135.5	1891.8	2271.7	970.2	516.8	735.3	2214.4	1819.0	2955.8
60°	5758.7	4844.7	3041.2	1797.5	2185.2	738.5	503.8	567.7	2118.1	1724.7	2847.7
61°	5786.1	4888.0	2972.5	1696.6	2081.9	579.7	492.6	485.2	2014.3	1635.6	2769.4
62°	5722.2	4962.6	2880.1	1608.3	1978.0	477.8	478.4	459.3	1907.9	1538.7	2673.7
63°	5492.1	5056.6	2764.1	1524.8	1869.2	450.0	460.5	444.0	1778.1	1456.6	2554.9
64°	5203.3	5092.9	2635.4	1440.1	1757.8	434.3	443.3	430.6	1629.1	1377.0	2427.9
65°	4926.9	4962.5	2518.4	1346.3	1620.2	419.8	428.8	414.0	1447.3	1297.3	2301.7
66°	4663.8	4665.1	2399.0	1262.5	1462.5	402.2	413.5	395.7	1221.8	1209.4	2165.1
67°	4157.5	4313.6	2267.2	1180.4	1270.5	384.3	400.1	375.7	927.3	1127.1	2041.9
68°	3621.6	3999.4	2166.8	1087.4	999.3	365.8	389.5	357.8	667.5	1041.9	1928.3
69°	3354.6	3483.5	2085.4	999.7	727.7	345.9	378.6	340.1	467.8	947.5	1820.1
70°	3191.3	3039.4	2030.1	909.1	508.0	327.7	364.2	324.4	349.7	860.2	1742.4
71°	3041.4	2832.3	2038.3	810.0	360.0	312.8	345.3	311.4	303.5	773.4	1705.8
72°	2884.1	2709.2	2360.8	722.3	307.5	299.9	319.1	296.4	285.5	688.6	1849.2
73°	2712.3	2586.2	2748.2	639.8	286.2	283.0	294.4	278.4	266.5	598.2	2412.8
74°	2513.5	2456.7	2127.3	562.5	266.1	264.3	270.5	261.1	246.1	520.8	2041.3
75°	2311.4	2327.1	1354.3	482.6	244.0	246.9	247.7	238.2	229.4	448.2	1234.0
76°	2109.2	2179.2	1127.1	414.6	225.7	224.5	232.8	216.0	212.5	382.0	964.7
77°	1895.6	2018.3	999.8	353.4	207.6	203.0	219.3	192.1	196.0	323.4	841.7
78°	1697.6	1863.3	994.8	296.1	190.2	178.5	205.5	169.8	179.9	266.9	815.7
79°	1493.8	1737.3	987.7	241.5	171.3	157.4	179.9	154.4	164.1	220.1	869.0
80°	1293.0	1608.3	768.1	197.5	155.9	141.2	159.8	140.3	149.4	177.7	637.4
81°	1073.9	1445.8	516.8	159.8	141.1	127.1	142.2	125.8	131.1	140.1	415.8
82°	880.4	1248.9	431.8	125.3	120.6	113.2	118.0	109.1	112.5	105.0	346.0
83°	700.6	1040.1	380.9	92.4	101.7	95.9	90.8	94.1	92.0	80.6	310.0
84°	542.7	897.9	333.9	69.0	82.2	80.1	68.0	78.8	74.6	61.7	272.9
85°	382.5	760.2	284.9	50.8	64.9	65.2	55.1	59.3	57.5	45.4	233.0
86°	259.0	548.1	237.3	35.3	47.7	46.6	35.3	42.2	45.7	30.9	185.7
87°	153.3	374.3	168.7	21.6	34.7	28.4	22.6	27.4	31.9	20.2	129.2
88°	51.4	143.5	67.9	11.2	20.7	15.7	17.1	18.1	19.5	11.6	41.5
89°	4.2	2.9	4.0	4.6	9.1	8.9	14.7	14.8	10.7	6.1	4.7



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1.5	1.4	1.7	2.0	4.2	6.4	15.3	14.8	10.0	5.0	4.3
91°	1.4	1.4	1.9	2.6	4.6	6.6	16.8	16.2	10.6	5.5	4.9
92°	1.7	1.7	1.9	2.2	5.4	7.5	18.4	17.2	11.5	6.0	5.1
93°	1.9	1.8	2.2	2.7	5.6	8.4	19.6	18.5	12.4	6.4	5.6
94°	1.9	1.8	2.4	2.9	6.1	9.2	20.9	19.8	13.1	6.8	5.9
95°	1.9	1.9	2.8	3.3	6.8	10.3	22.5	20.9	13.9	7.4	6.5
96°	1.8	1.8	2.8	3.6	7.1	11.0	24.1	22.3	14.7	8.2	7.0
97°	2.3	2.0	3.2	4.1	7.9	12.3	25.6	23.3	15.8	8.7	7.7
98°	2.2	2.2	3.4	4.3	8.7	13.1	26.8	24.6	16.7	9.3	8.2
99°	2.3	2.4	4.0	4.7	9.2	14.2	28.2	25.9	17.4	10.0	8.9
100°	2.3	2.6	4.2	5.0	10.1	14.9	29.7	27.2	18.6	10.7	9.4
101°	2.6	2.9	4.7	5.6	10.5	16.0	31.1	28.4	19.5	11.5	10.1
102°	2.7	3.2	5.0	6.1	11.4	17.1	32.4	29.5	20.5	12.1	10.6
103°	2.8	3.4	5.4	6.9	12.0	17.9	33.9	30.7	21.3	13.0	11.5
104°	3.2	3.7	6.0	7.1	12.9	19.0	35.0	31.8	22.3	13.8	12.1
105°	3.6	4.0	6.5	7.7	13.7	20.3	36.2	33.0	23.3	14.4	13.0
106°	3.6	4.7	6.9	8.3	14.4	21.1	37.8	34.2	24.0	15.3	13.7
107°	4.0	5.0	7.4	8.9	15.1	22.3	39.0	35.6	25.0	16.0	14.4
108°	4.6	5.6	8.3	9.6	16.1	23.6	40.1	36.7	25.6	16.8	15.1
109°	5.0	6.1	8.7	10.2	16.7	24.6	41.2	37.8	26.8	17.9	16.2
110°	5.4	6.9	9.7	10.8	17.5	25.8	42.5	39.0	27.7	18.6	17.0
111°	5.9	7.5	10.2	11.5	18.4	26.9	43.5	40.1	28.8	19.6	17.6
112°	6.8	8.0	10.6	12.1	19.0	27.9	45.0	40.8	29.6	20.2	18.5
113°	7.3	8.7	11.4	12.8	19.9	28.7	45.5	41.7	30.4	21.4	19.5
114°	7.8	9.6	12.0	13.5	20.9	29.7	46.4	42.6	31.3	21.9	20.0
115°	8.3	10.2	12.5	14.4	21.8	30.9	47.6	43.4	32.1	23.0	20.9
116°	9.2	11.0	13.4	14.8	22.6	31.8	48.3	44.1	33.2	24.0	21.8
117°	10.1	11.6	14.0	15.7	23.5	32.8	49.0	45.0	34.1	24.8	22.3
118°	10.6	12.4	14.7	16.6	24.2	33.6	49.8	45.3	34.4	25.4	23.5
119°	11.7	13.3	15.3	17.2	25.1	34.1	50.4	45.8	35.5	26.4	24.2
120°	12.6	14.2	16.1	18.1	25.8	35.3	50.9	46.7	36.2	27.3	25.0
121°	13.4	15.2	16.7	18.9	26.8	36.2	51.3	47.2	36.9	28.2	25.9
122°	14.4	15.8	17.5	19.6	27.7	36.7	51.5	47.8	37.8	28.8	26.5
123°	15.2	16.8	18.4	20.2	28.6	37.9	52.0	48.3	38.3	29.7	27.4
124°	16.5	17.6	19.0	20.9	29.3	38.8	52.7	48.9	38.9	30.6	28.2
125°	17.5	18.6	19.8	21.9	30.2	39.4	53.1	49.4	39.7	31.3	29.2
126°	18.4	19.5	20.5	22.8	31.0	40.2	53.3	49.6	40.3	32.1	30.0
127°	19.3	20.2	21.3	23.6	31.6	40.9	53.6	50.0	40.9	32.8	30.9
128°	19.9	21.1	22.2	24.2	32.5	41.7	53.8	50.5	41.6	33.6	31.5
129°	21.2	21.7	23.0	25.0	33.2	42.3	54.1	50.8	42.1	34.3	32.4
130°	22.1	22.5	23.7	25.6	33.9	43.1	54.3	51.0	42.6	34.8	33.2
131°	22.7	23.1	24.4	26.5	34.6	43.9	54.3	51.5	43.2	35.8	33.7
132°	23.6	24.0	25.3	27.3	35.3	44.4	54.6	51.9	43.5	36.4	34.2
133°	24.4	24.9	25.8	28.3	36.1	45.0	54.9	52.2	43.9	37.2	35.0
134°	25.3	25.6	26.7	28.8	37.0	45.9	55.0	52.3	44.5	37.9	36.0



REPORT NUMBER: P1449841  
 CATALOG NUMBER: TWC100\_T4\_100W\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	25.9	26.4	27.4	29.7	37.5	46.6	55.4	52.4	45.2	38.5	36.7
136°	26.7	27.2	28.3	30.4	38.1	47.1	55.4	52.8	45.4	39.0	37.1
137°	27.4	27.8	29.0	31.3	38.7	47.7	55.2	53.1	45.9	39.7	37.9
138°	28.2	28.8	29.9	31.9	38.9	48.0	55.2	52.8	46.2	40.4	38.5
139°	28.8	29.3	30.5	32.9	39.7	48.3	55.4	53.1	46.6	41.1	38.9
140°	29.5	30.1	31.4	33.6	40.2	48.7	55.5	53.3	46.9	41.6	39.7
141°	30.2	31.0	32.0	33.9	40.7	49.0	55.1	53.3	47.5	42.2	40.2
142°	31.0	31.3	33.0	34.7	41.2	49.6	55.2	53.2	47.8	42.6	40.7
143°	31.5	32.4	33.9	35.5	41.8	49.8	55.2	53.3	48.0	43.1	41.1
144°	32.3	32.9	34.2	36.1	42.6	50.0	55.1	53.3	48.5	43.9	41.7
145°	33.4	34.1	35.2	36.7	42.6	50.0	55.0	53.3	48.9	44.0	42.2
146°	34.1	35.0	35.8	37.2	43.2	50.3	55.1	53.7	49.1	44.8	42.9
147°	35.0	35.5	36.6	37.8	43.8	50.5	55.0	53.5	49.5	45.4	43.6
148°	36.0	36.7	37.0	38.7	44.3	50.5	54.9	53.5	49.9	45.7	44.0
149°	36.9	37.0	37.9	39.3	44.8	50.6	55.1	53.8	50.0	46.1	44.3
150°	37.8	37.9	38.4	39.8	45.3	51.2	54.9	54.0	50.4	46.7	44.8
151°	38.5	38.8	39.0	40.4	45.7	51.2	55.0	54.0	50.6	47.2	45.3
152°	39.5	39.4	39.5	41.1	46.2	51.5	54.7	53.8	50.8	47.6	45.9
153°	39.9	40.1	39.9	41.6	46.3	51.4	54.5	53.8	51.3	48.1	46.2
154°	40.8	40.8	40.8	42.1	46.8	51.5	54.6	54.0	51.3	48.1	46.4
155°	41.6	41.1	41.5	42.7	47.1	51.8	54.6	53.8	51.7	48.7	46.8
156°	42.3	41.8	42.0	43.2	47.6	51.9	54.2	53.8	51.8	49.0	47.2
157°	42.6	42.2	42.5	43.8	47.8	52.2	54.0	53.7	51.7	49.2	47.7
158°	43.1	42.7	42.9	44.4	48.5	52.4	54.0	53.7	51.8	49.6	48.1
159°	43.6	43.1	43.5	44.9	48.7	52.4	53.8	53.6	52.0	50.0	48.5
160°	44.1	43.5	43.8	45.2	49.2	52.4	53.7	53.7	52.2	50.1	48.7
161°	44.6	44.0	44.3	45.8	49.4	52.7	53.5	53.3	52.3	50.5	49.0
162°	45.0	44.4	45.0	46.2	49.8	52.7	53.2	53.5	52.4	50.5	49.4
163°	45.2	44.8	45.2	46.8	50.0	52.8	53.2	53.5	52.3	50.9	49.6
164°	45.7	44.9	45.5	47.3	50.5	52.8	53.2	53.2	52.6	51.0	50.0
165°	46.2	45.9	46.3	47.6	50.8	53.2	52.9	53.2	52.6	51.3	50.3
166°	46.4	46.1	46.7	48.0	50.8	53.1	52.9	53.1	52.7	51.4	50.4
167°	46.8	46.8	47.1	48.5	51.2	53.2	52.8	53.2	52.7	51.5	50.6
168°	47.1	47.1	47.7	48.6	51.4	53.2	52.7	52.9	52.7	51.8	51.2
169°	47.6	47.6	48.1	49.2	51.8	53.3	52.8	52.9	52.7	52.0	51.2
170°	47.8	47.7	48.5	49.8	51.8	53.2	52.7	53.1	52.9	52.3	51.5
171°	48.3	48.2	49.0	50.1	52.0	53.3	53.1	52.9	52.7	52.4	51.7
172°	49.0	48.6	49.2	50.5	52.2	53.2	52.7	52.8	52.7	52.7	51.8
173°	49.5	49.0	49.5	51.0	52.3	53.1	53.1	53.2	52.7	52.8	52.0
174°	49.9	49.4	50.0	51.3	52.4	53.3	52.9	52.9	52.6	53.1	52.4
175°	50.4	49.8	50.8	51.4	52.9	53.3	52.8	52.4	52.7	52.9	52.6
176°	50.9	50.4	50.6	52.0	52.9	53.6	52.8	52.7	52.6	52.8	52.8
177°	51.2	50.6	51.3	52.3	52.9	53.5	52.7	52.3	52.4	52.9	52.9
178°	51.5	51.2	51.4	52.3	53.3	53.5	52.6	52.0	52.6	53.1	52.9
179°	51.8	51.4	51.8	52.6	53.2	53.2	52.6	52.2	52.4	53.2	52.9



REPORT NUMBER: P1449841  
CATALOG NUMBER: TWC100\_T4\_100W\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5



REPORT NUMBER: P1449841  
CATALOG NUMBER: TWC100\_T4\_100W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	5062.4	5062.4
1°	5088.1	5100.7
2°	5108.8	5127.1
3°	5130.9	5152.4
4°	5150.2	5178.0
5°	5169.3	5201.1
6°	5190.5	5225.9
7°	5210.4	5254.8
8°	5230.8	5288.1
9°	5251.3	5316.8
10°	5269.1	5343.2
11°	5287.0	5370.3
12°	5310.5	5401.0
13°	5323.1	5422.5
14°	5336.9	5447.4
15°	5339.7	5463.9
16°	5352.5	5486.6
17°	5366.4	5510.5
18°	5373.0	5540.3
19°	5384.6	5557.2
20°	5388.8	5570.5
21°	5386.6	5581.3
22°	5380.9	5584.8
23°	5374.9	5593.5
24°	5367.7	5602.9
25°	5361.5	5614.8
26°	5351.7	5622.2
27°	5343.2	5632.5
28°	5335.1	5641.4
29°	5323.7	5658.9
30°	5322.6	5670.3
31°	5313.8	5680.9
32°	5306.7	5690.9
33°	5300.0	5696.7
34°	5287.3	5706.8
35°	5283.9	5715.1
36°	5280.8	5721.8
37°	5278.9	5735.1
38°	5267.7	5739.7
39°	5259.0	5742.9
40°	5245.7	5741.3
41°	5230.3	5738.1
42°	5214.3	5736.5
43°	5199.0	5742.0
44°	5182.8	5759.1



REPORT NUMBER: P1449841  
CATALOG NUMBER: TWC100\_T4\_100W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	5165.2	5751.4
46°	5159.6	5673.2
47°	5150.2	5643.6
48°	5081.6	5658.4
49°	5005.9	5645.5
50°	4994.3	5616.7
51°	4977.2	5583.9
52°	4937.4	5542.1
53°	4874.0	5523.4
54°	4822.4	5513.5
55°	4778.2	5510.2
56°	4744.2	5527.1
57°	4720.1	5559.5
58°	4708.0	5612.7
59°	4698.2	5682.3
60°	4714.7	5758.7
61°	4771.6	5786.1
62°	4854.2	5722.2
63°	4932.1	5492.1
64°	4920.8	5203.3
65°	4700.1	4926.9
66°	4376.5	4663.8
67°	4080.2	4157.5
68°	3673.6	3621.6
69°	3133.1	3354.6
70°	2832.4	3191.3
71°	2690.9	3041.4
72°	2551.7	2884.1
73°	2429.8	2712.3
74°	2305.8	2513.5
75°	2172.1	2311.4
76°	1998.2	2109.2
77°	1848.8	1895.6
78°	1720.5	1697.6
79°	1598.5	1493.8
80°	1457.8	1293.0
81°	1309.0	1073.9
82°	1100.3	880.4
83°	917.3	700.6
84°	779.2	542.7
85°	594.9	382.5
86°	447.8	259.0
87°	246.9	153.3
88°	14.4	51.4
89°	2.3	4.2



REPORT NUMBER: P1449841  
CATALOG NUMBER: TWC100\_T4\_100W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	2.6	1.5
91°	2.7	1.4
92°	2.8	1.7
93°	3.3	1.9
94°	3.3	1.9
95°	3.8	1.9
96°	4.5	1.8
97°	4.6	2.3
98°	5.2	2.2
99°	5.9	2.3
100°	6.4	2.3
101°	7.0	2.6
102°	7.8	2.7
103°	8.6	2.8
104°	9.2	3.2
105°	9.8	3.6
106°	10.6	3.6
107°	11.6	4.0
108°	12.3	4.6
109°	13.0	5.0
110°	14.0	5.4
111°	14.9	5.9
112°	15.7	6.8
113°	16.8	7.3
114°	17.7	7.8
115°	18.9	8.3
116°	19.8	9.2
117°	20.8	10.1
118°	21.6	10.6
119°	22.6	11.7
120°	23.7	12.6
121°	24.8	13.4
122°	25.6	14.4
123°	26.5	15.2
124°	27.6	16.5
125°	28.4	17.5
126°	29.2	18.4
127°	30.0	19.3
128°	30.9	19.9
129°	31.5	21.2
130°	32.4	22.1
131°	33.2	22.7
132°	34.1	23.6
133°	34.3	24.4
134°	35.2	25.3



REPORT NUMBER: P1449841  
CATALOG NUMBER: TWC100\_T4\_100W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
135°	36.0	25.9
136°	36.5	26.7
137°	37.0	27.4
138°	37.9	28.2
139°	38.5	28.8
140°	39.3	29.5
141°	39.5	30.2
142°	40.2	31.0
143°	40.7	31.5
144°	41.5	32.3
145°	42.0	33.4
146°	42.3	34.1
147°	42.6	35.0
148°	43.1	36.0
149°	43.5	36.9
150°	44.1	37.8
151°	44.4	38.5
152°	44.9	39.5
153°	45.2	39.9
154°	45.4	40.8
155°	45.8	41.6
156°	46.1	42.3
157°	46.4	42.6
158°	46.8	43.1
159°	47.1	43.6
160°	47.5	44.1
161°	47.5	44.6
162°	48.0	45.0
163°	48.3	45.2
164°	48.6	45.7
165°	49.0	46.2
166°	49.2	46.4
167°	49.4	46.8
168°	49.8	47.1
169°	50.1	47.6
170°	50.3	47.8
171°	50.9	48.3
172°	50.9	49.0
173°	51.3	49.5
174°	51.8	49.9
175°	51.9	50.4
176°	52.2	50.9
177°	52.6	51.2
178°	53.1	51.5
179°	53.2	51.8

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

Scaled Data Report



REPORT NUMBER: P1449841  
CATALOG NUMBER: TWC100\_T4\_100W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
180°	52.5	52.5

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

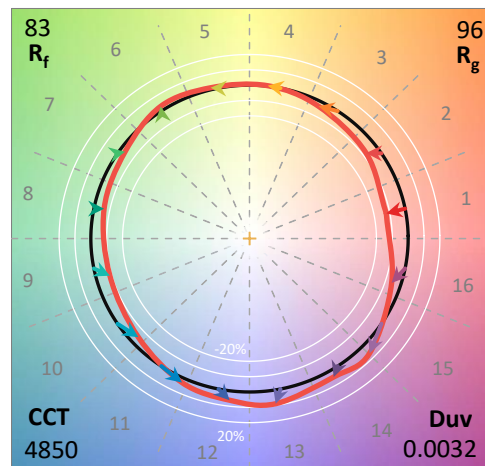
**Test Information**

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**

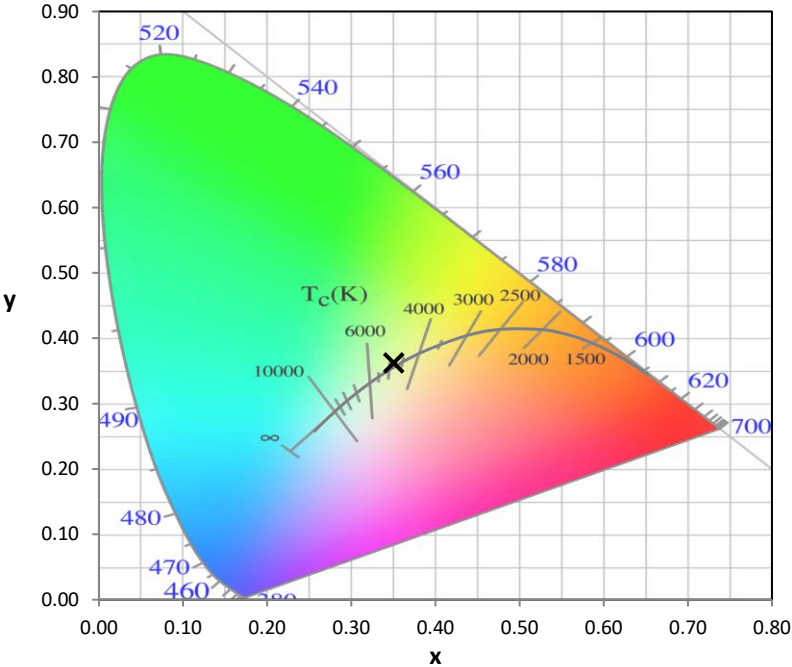
Stabilization Time: 25M  
 Operation Time: 1H 25M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

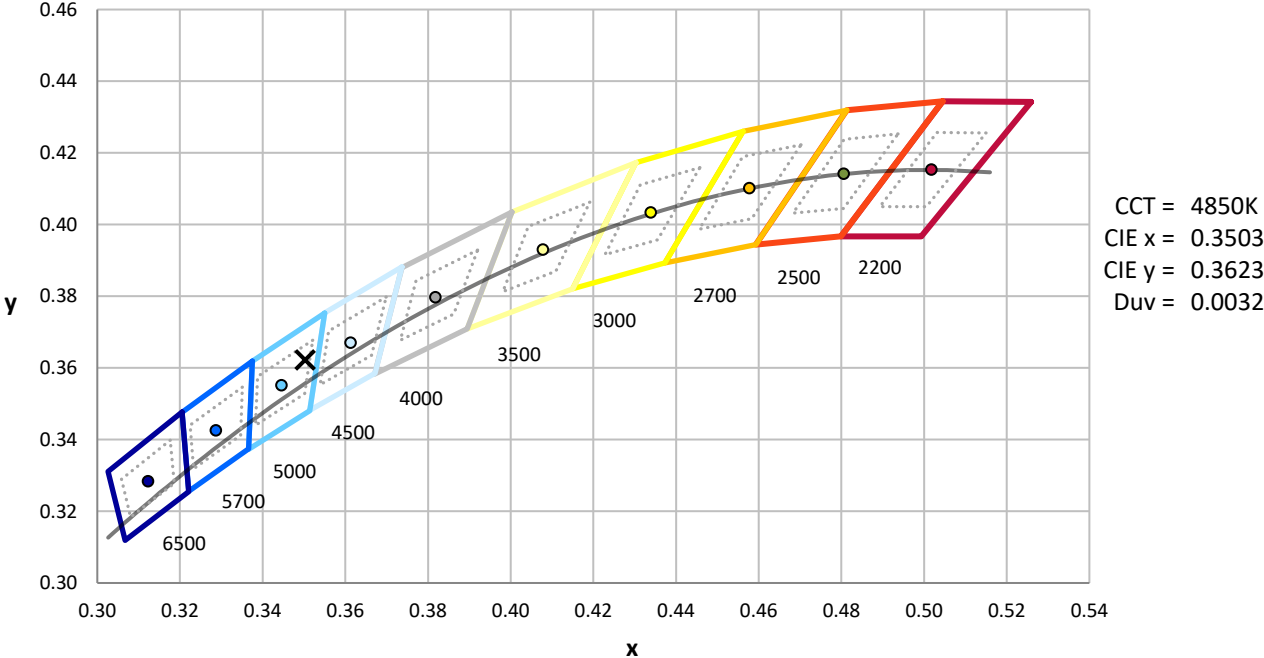
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



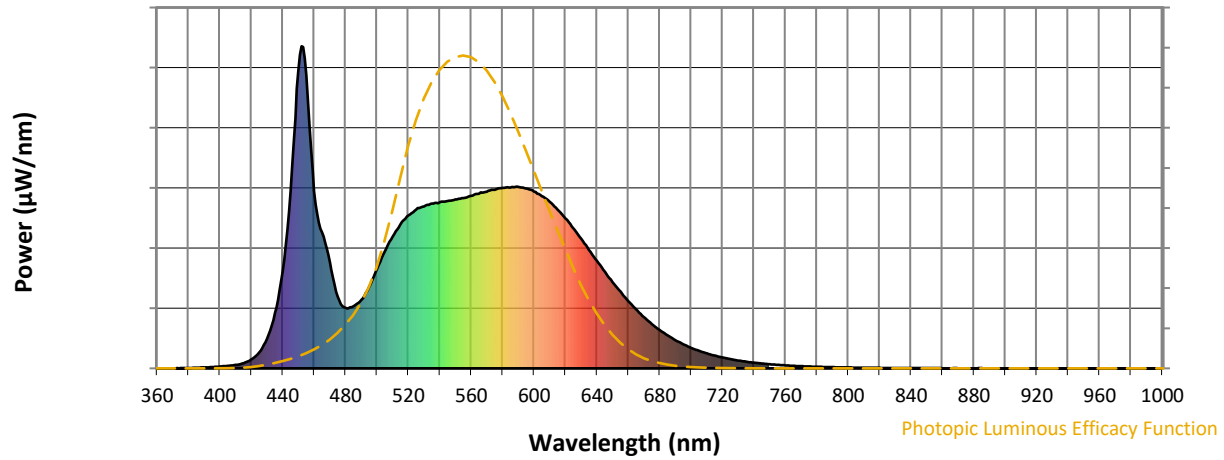
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

**Photopic Flux vs. Wavelength**

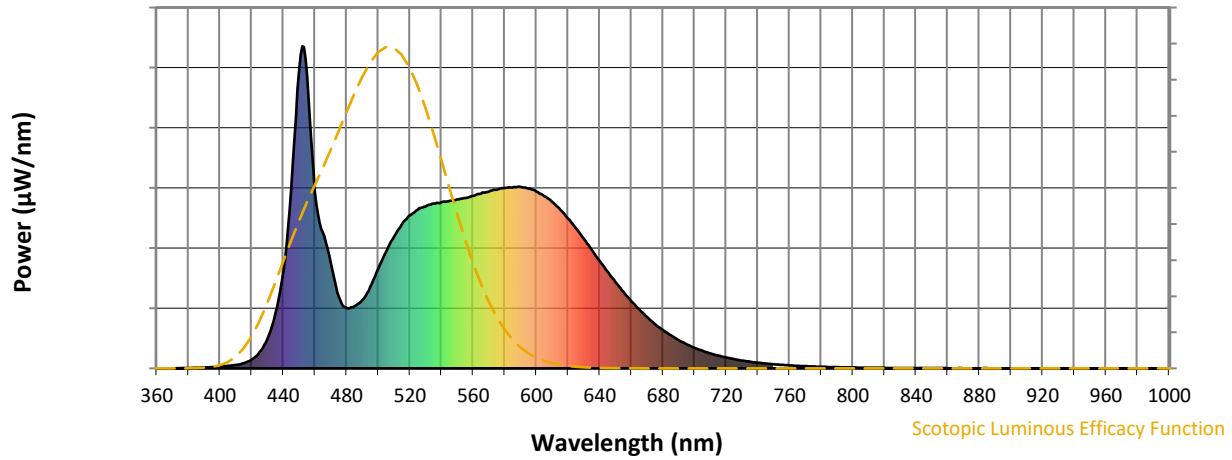


**Photopic Lumens: NR**

$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens $(\phi/\text{nm})$
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**



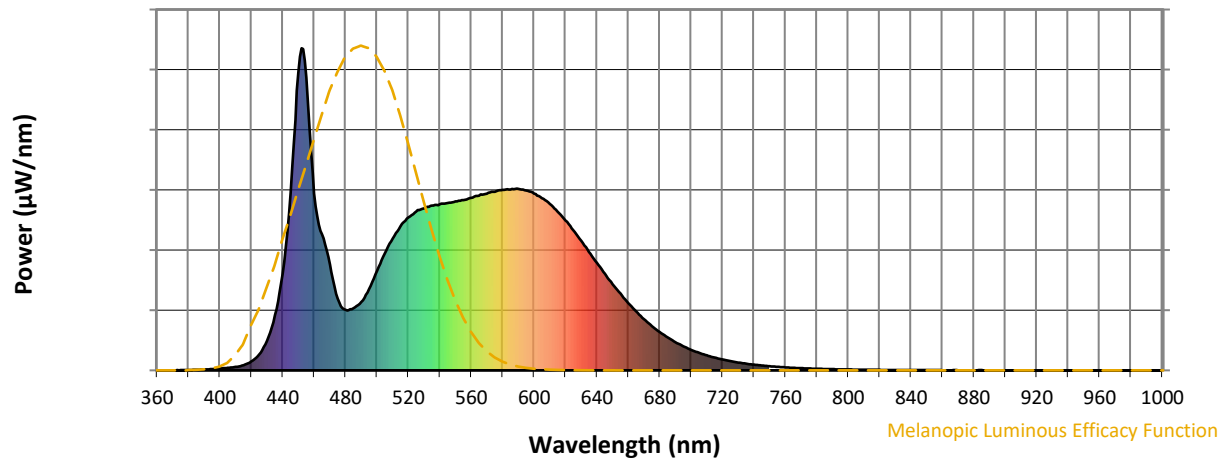
**Scotopic Lumens: NR**

**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



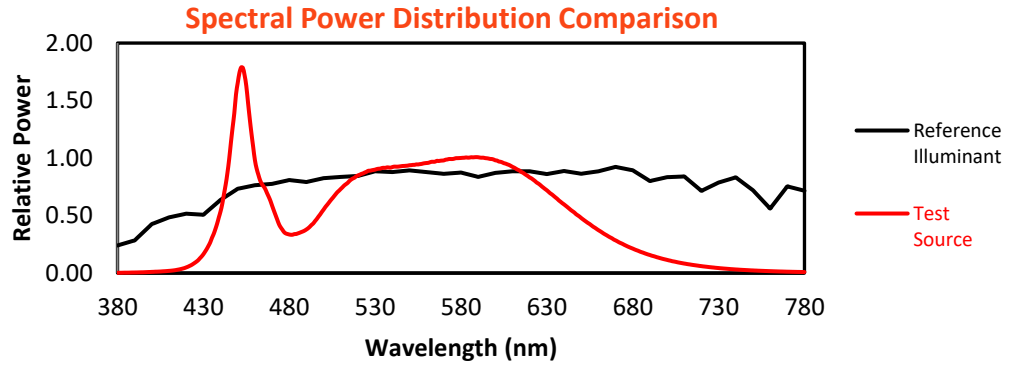
Melanopic Lumens: NR

M/P: 4

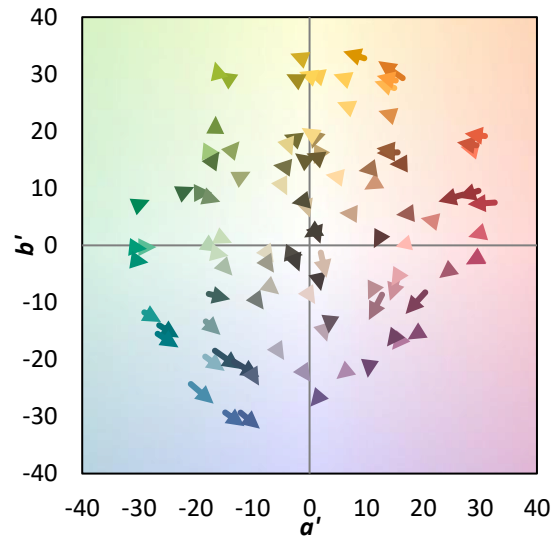
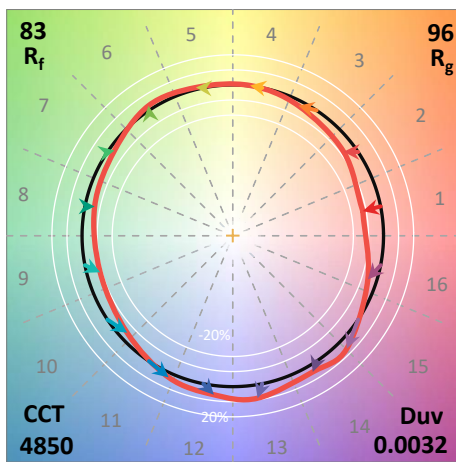
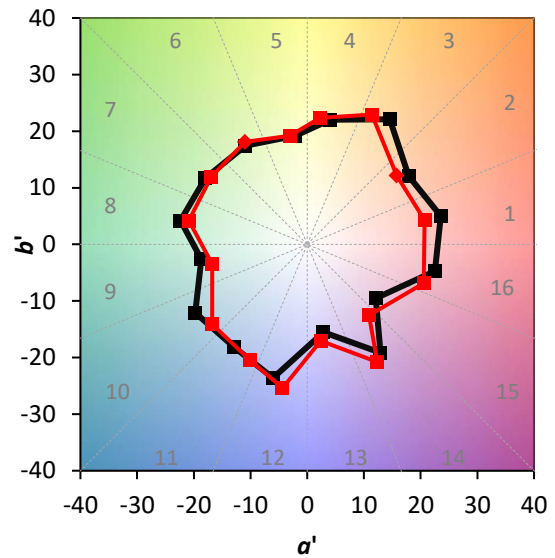
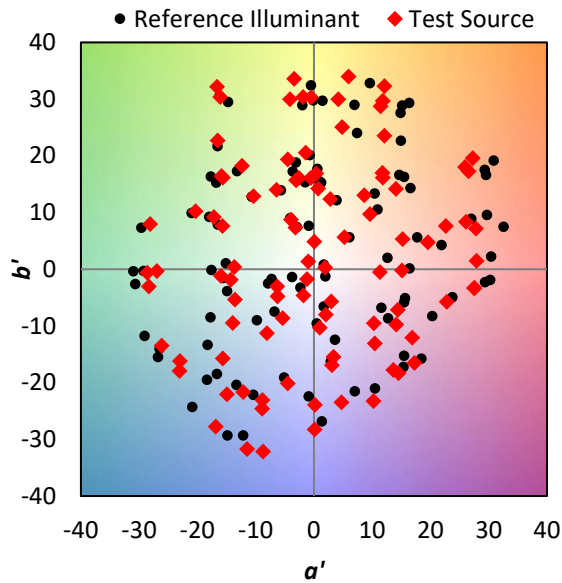
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625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

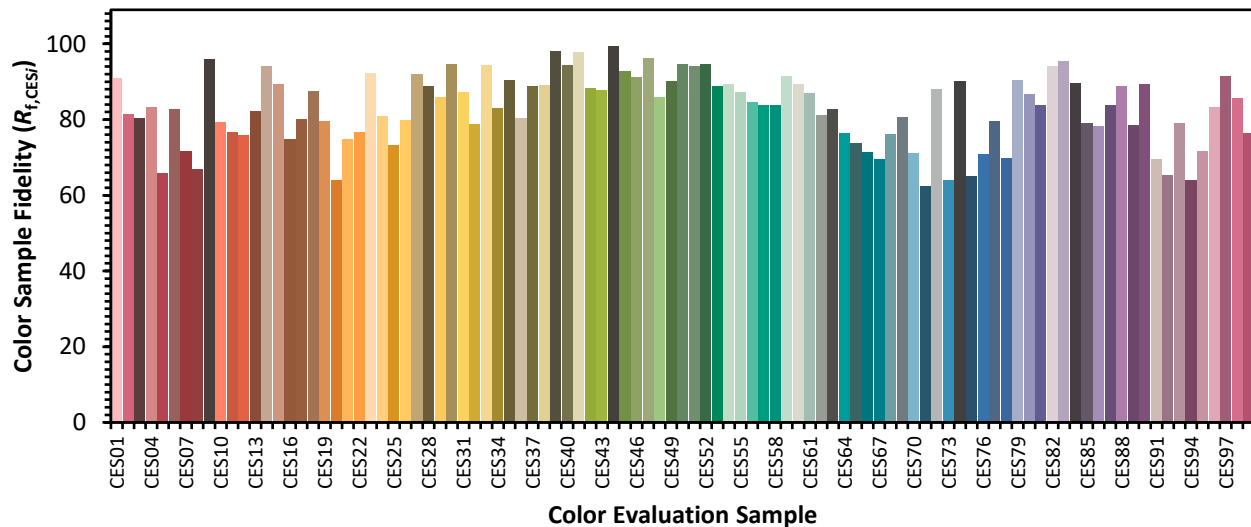


**Color Vector Graphics**

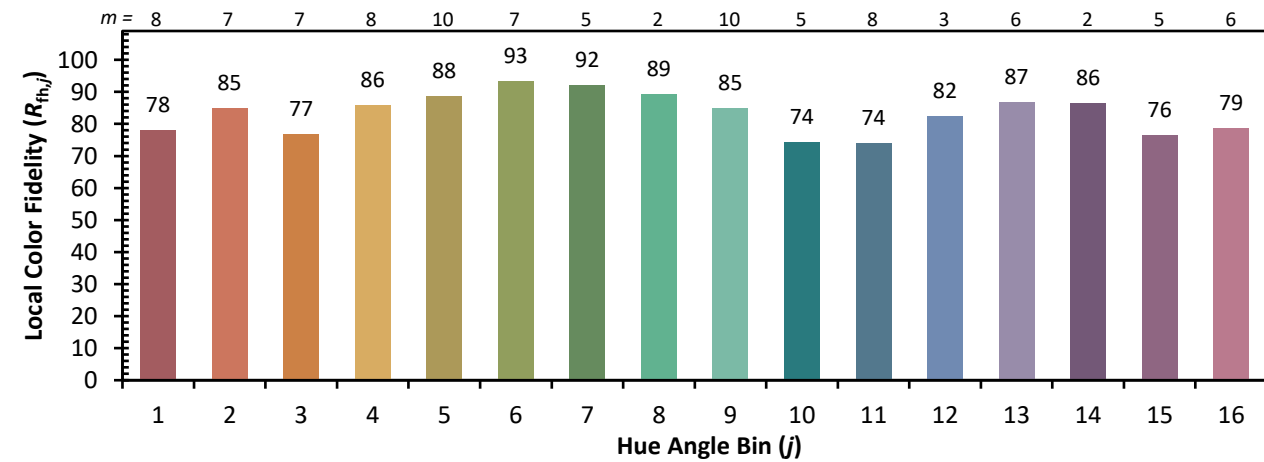
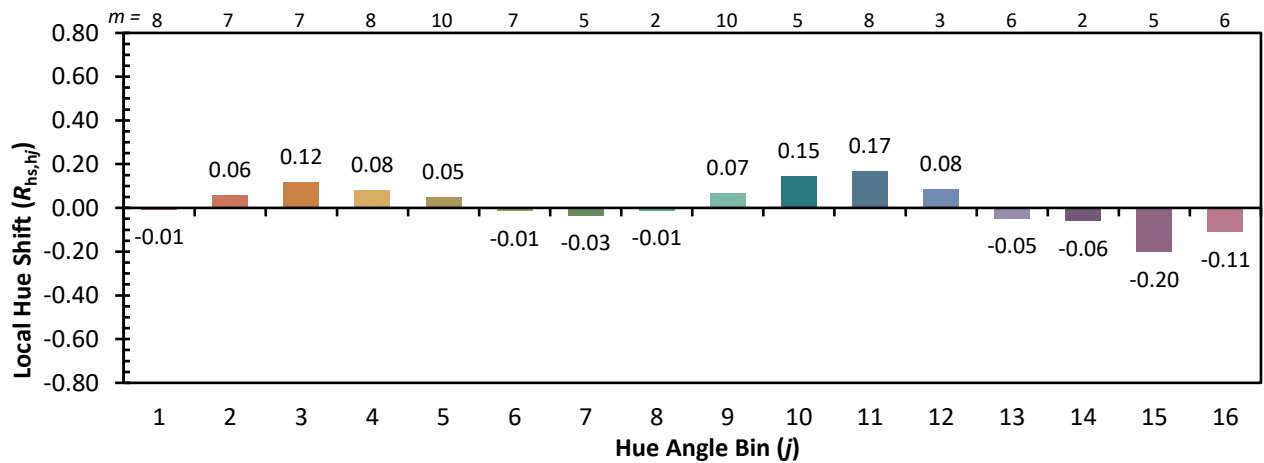
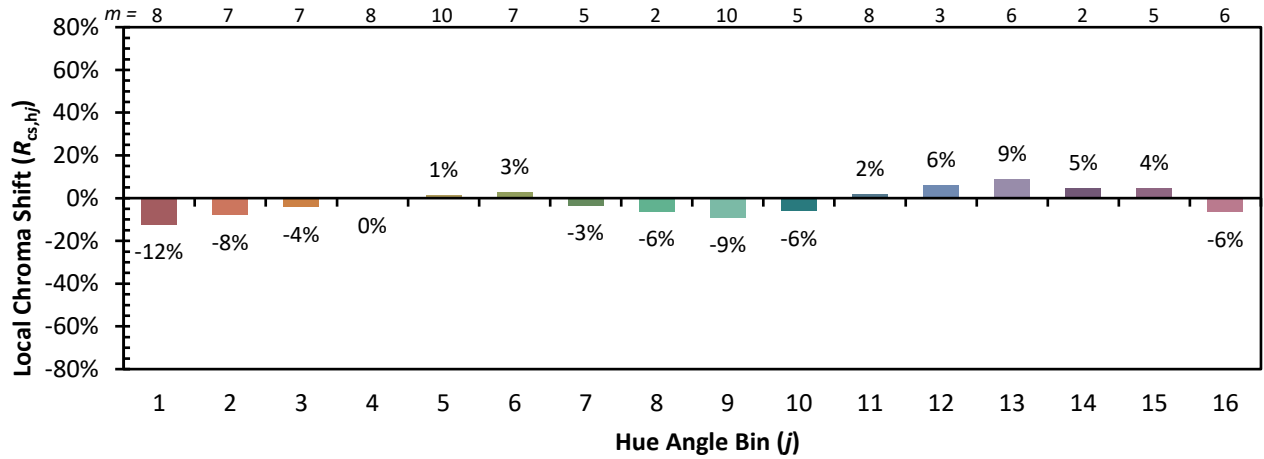


Individual Sample Fidelity Index ( $R_{f,i}$ )

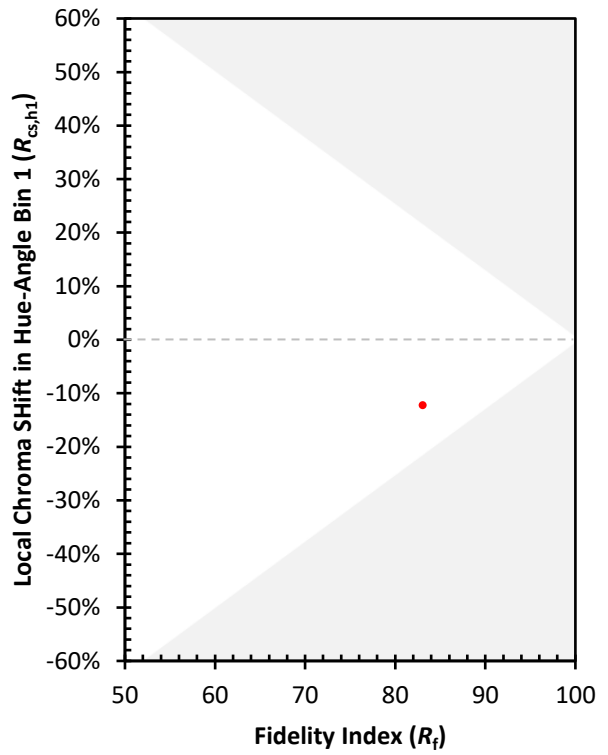
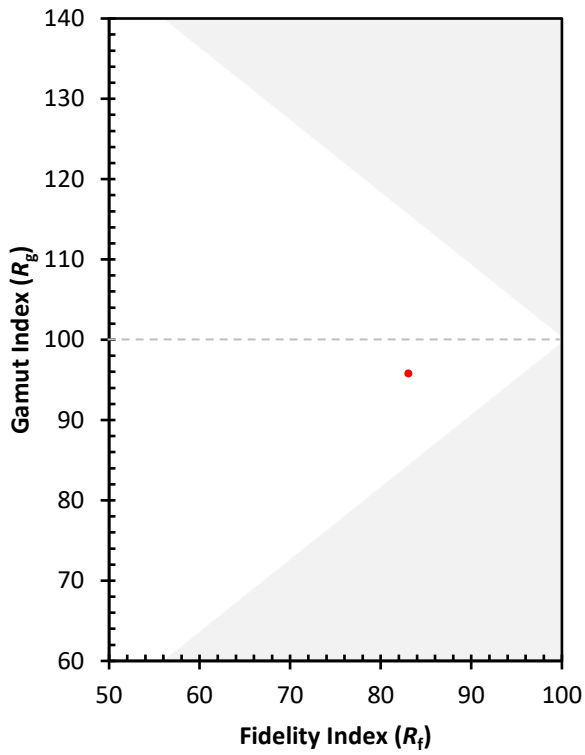
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82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