

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: P1449872

Luminaire Tested: **TWC150_T3_90W_3000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TWC150_T3_90W_3000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 90W
3000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14467 lumens
Efficiency: N/A
Efficacy: 170.2 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 0.42' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

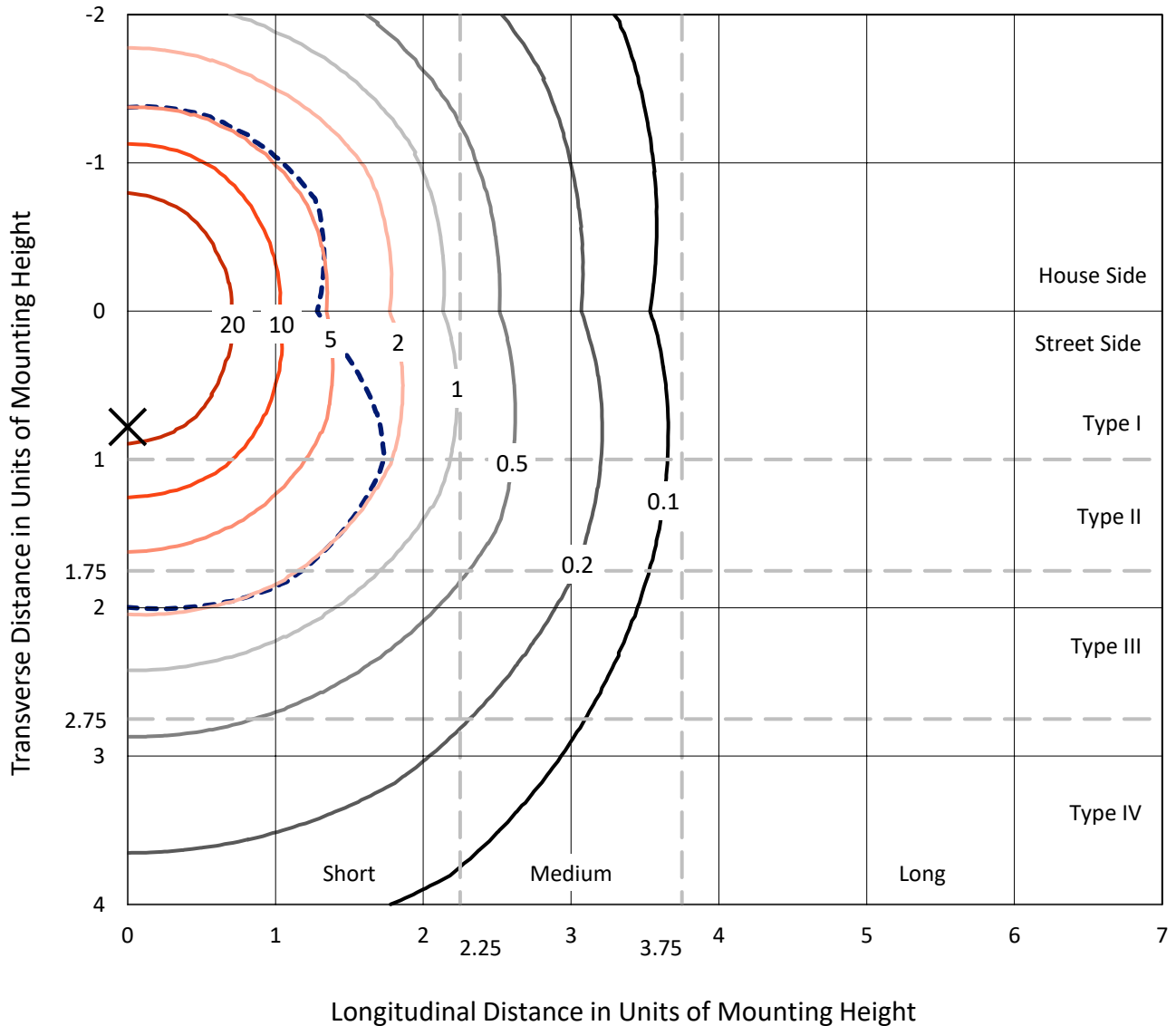
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

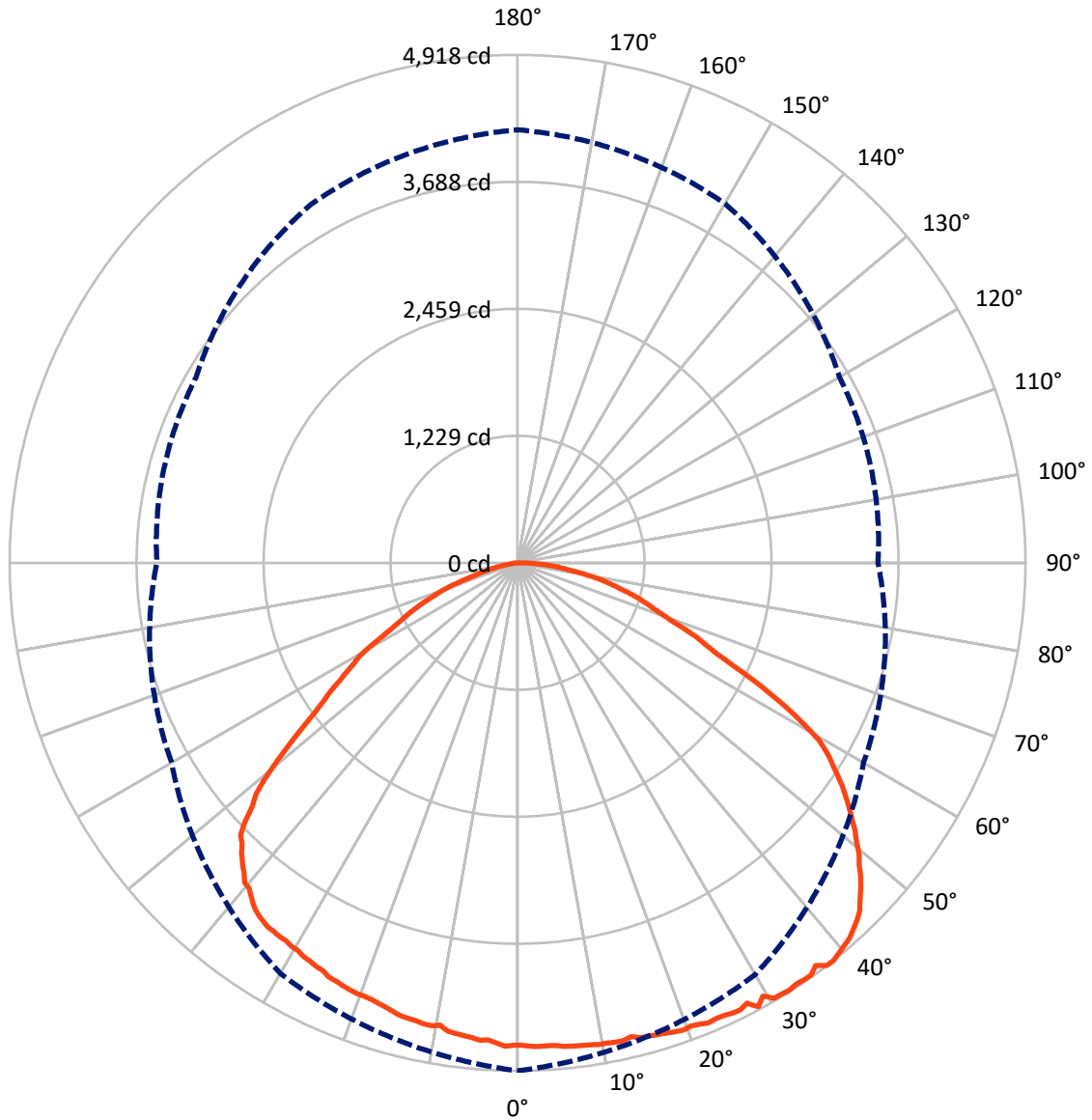
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 46.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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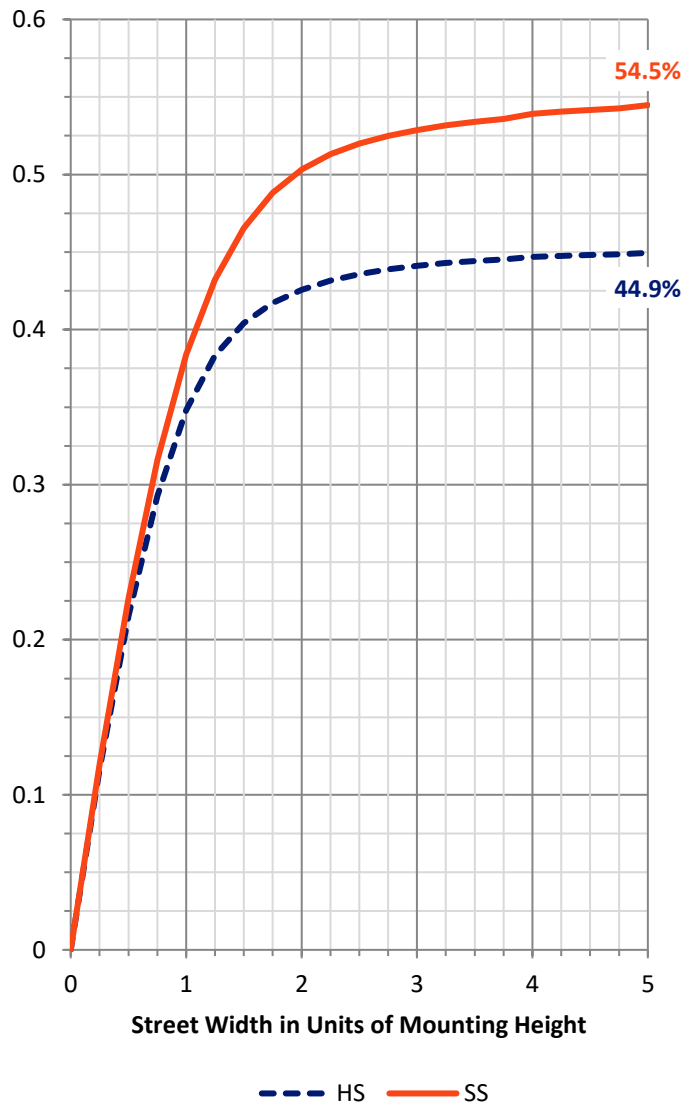
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6532.9	0.0	6532.9
	% Fixture	45.2	0.0	45.2
Street Side	Lumens	7934.1	0.0	7934.1
	% Fixture	54.8	0.0	54.8
Total	Lumens	14467.0	0.0	14467.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.3	3.1
10°-20°	1288.9	8.9
20°-30°	2021.4	14.0
30°-40°	2579.4	17.8
40°-50°	2845.9	19.7
50°-60°	2563.8	17.7
60°-70°	1746.4	12.1
70°-80°	791.9	5.5
80°-90°	186.1	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14467.0	100.0
0°-180°	14467.0	100.0

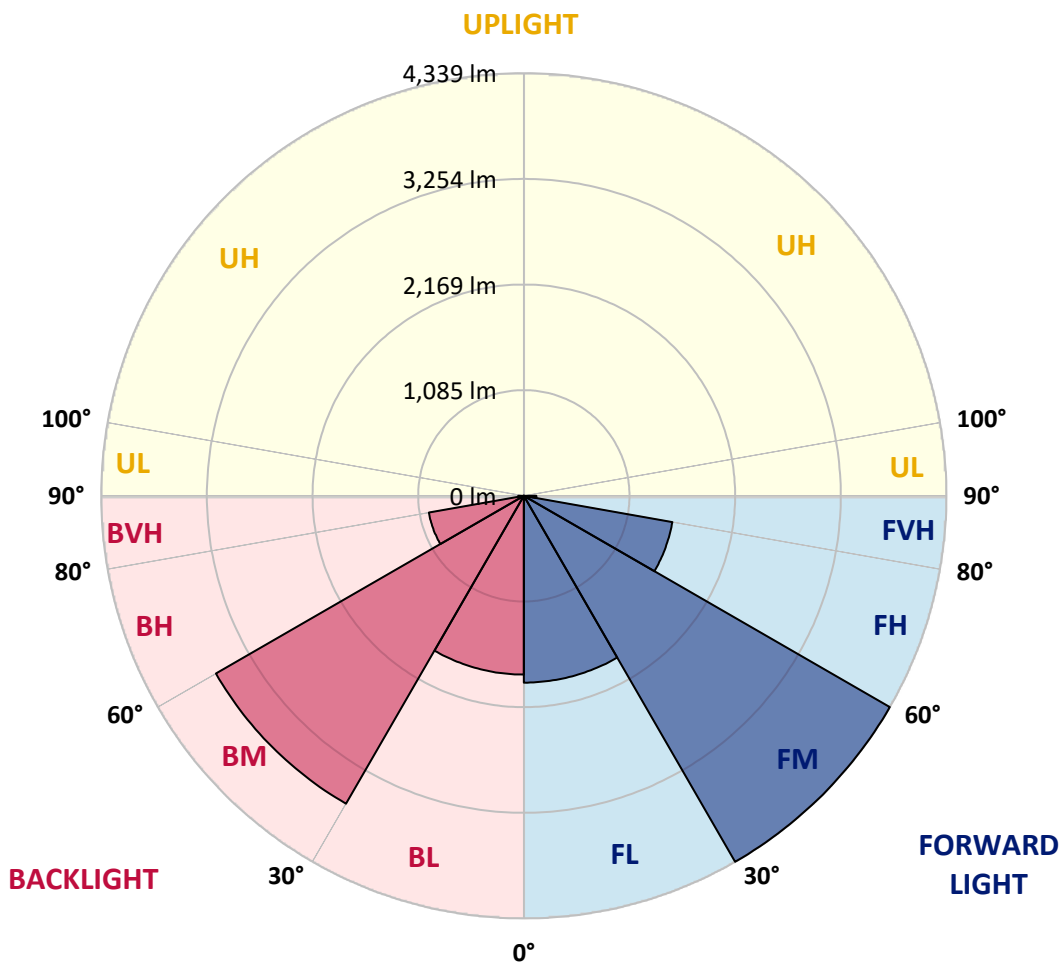


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1918.2	13.3			
FM	(30°-60°)	4338.9	30.0			
FH	(60°-80°)	1548.5	10.7			G1/1800
FVH	(80°-90°)	128.6	0.9			G2/225
BL	(0°-30°)	1835.4	12.7	B3/2500		
BM	(30°-60°)	3650.3	25.2	B3/5000		
BH	(60°-80°)	989.8	6.8	B2/1000		G2/1000
BVH	(80°-90°)	57.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	4671.4	4671.4	4671.4	4671.4	4671.4	4671.4	4671.4	4671.4	4671.4	4671.4	4671.4
1°	4682.1	4697.5	4678.1	4664.2	4668.2	4671.7	4671.7	4655.8	4668.4	4670.1	4675.3
2°	4687.2	4693.6	4702.0	4673.9	4679.0	4659.5	4682.0	4672.9	4663.1	4603.1	4682.0
3°	4684.6	4703.2	4688.2	4661.1	4658.1	4662.4	4653.4	4647.6	4656.0	4665.8	4679.5
4°	4686.7	4685.8	4688.0	4663.0	4655.8	4637.5	4626.9	4642.2	4648.0	4672.4	4670.1
5°	4702.8	4682.6	4668.2	4689.8	4633.5	4623.3	4637.5	4634.4	4638.9	4661.9	4666.6
6°	4708.6	4684.9	4668.2	4638.1	4620.8	4609.9	4617.9	4622.4	4627.4	4685.4	4663.7
7°	4714.5	4688.0	4655.1	4623.8	4609.3	4600.3	4606.4	4624.5	4620.1	4625.2	4656.7
8°	4719.0	4693.4	4647.5	4605.3	4598.2	4591.2	4596.6	4618.9	4601.8	4620.1	4650.3
9°	4729.3	4701.5	4647.0	4589.0	4579.0	4524.5	4583.9	4589.7	4592.1	4605.2	4657.7
10°	4729.7	4697.8	4590.0	4582.7	4563.2	4558.8	4538.3	4572.8	4567.7	4588.1	4647.1
11°	4736.5	4704.9	4626.2	4571.5	4552.2	4544.2	4559.0	4552.9	4569.5	4587.4	4621.0
12°	4738.0	4703.2	4616.0	4562.7	4537.6	4536.4	4554.5	4576.1	4527.5	4541.8	4599.2
13°	4716.8	4697.8	4632.3	4528.9	4515.8	4521.0	4542.8	4530.1	4504.5	4522.3	4588.3
14°	4749.0	4706.7	4592.6	4510.6	4475.4	4517.6	4536.7	4466.9	4485.3	4505.5	4576.9
15°	4754.6	4680.0	4570.9	4478.0	4455.0	4505.9	4528.7	4488.7	4415.2	4481.5	4565.1
16°	4763.6	4752.5	4551.5	4450.0	4442.0	4484.6	4508.7	4485.0	4430.7	4466.7	4552.6
17°	4775.6	4718.7	4531.5	4438.3	4403.0	4466.7	4488.0	4461.8	4409.1	4436.2	4546.1
18°	4788.0	4694.8	4507.5	4435.2	4376.7	4433.5	4472.6	4437.6	4384.7	4396.0	4523.8
19°	4800.0	4700.8	4488.8	4369.4	4352.8	4411.0	4457.7	4431.0	4361.2	4384.7	4504.2
20°	4788.2	4700.8	4471.1	4342.4	4327.7	4388.7	4450.7	4425.6	4325.0	4360.8	4476.5
21°	4801.2	4694.8	4453.5	4309.6	4301.6	4422.8	4451.0	4393.7	4291.5	4314.3	4414.3
22°	4822.1	4632.0	4429.4	4281.3	4267.3	4368.1	4440.4	4376.7	4269.1	4280.6	4437.3
23°	4813.3	4674.6	4400.5	4244.2	4239.3	4358.6	4429.6	4344.3	4230.1	4244.0	4414.8
24°	4815.7	4675.9	4380.0	4204.5	4194.5	4345.3	4413.1	4332.1	4193.8	4210.6	4378.9
25°	4830.3	4672.7	4362.4	4171.4	4149.3	4316.1	4407.5	4308.4	4166.0	4171.9	4350.6
26°	4835.4	4657.7	4274.1	4131.1	4120.2	4294.1	4376.7	4324.8	4119.6	4137.4	4310.9
27°	4808.4	4655.1	4230.2	4098.1	4084.3	4277.8	4366.9	4269.1	4084.0	4093.9	4276.7
28°	4889.9	4649.7	4288.4	4037.1	4044.9	4239.6	4348.0	4246.6	4041.5	4046.2	4244.3
29°	4818.8	4644.0	4212.5	4019.2	4007.5	4229.4	4339.4	4221.7	4008.7	4001.8	4232.1
30°	4893.0	4653.6	4170.0	3941.5	3972.5	4207.4	4315.4	4197.3	3967.3	3958.2	4189.3
31°	4896.8	4652.2	4144.4	3893.1	3933.3	4189.8	4309.5	4174.2	3947.3	3904.6	4150.0
32°	4901.9	4651.6	4106.2	3842.2	3900.8	4153.1	4291.9	4155.5	3896.8	3855.1	4133.6
33°	4890.9	4645.2	4076.8	3793.0	3858.3	4140.0	4291.0	4139.5	3853.2	3786.2	4076.3
34°	4898.9	4629.5	4068.3	3733.9	3806.9	4115.8	4277.8	4123.1	3807.2	3727.0	4034.7
35°	4898.6	4613.2	3958.6	3675.2	3760.0	4097.4	4273.4	4094.4	3747.9	3673.8	3989.6
36°	4849.3	4614.6	3946.2	3616.4	3698.8	4071.4	4252.9	4051.0	3699.6	3610.8	3959.3
37°	4915.6	4603.1	3906.3	3549.5	3645.8	4042.0	4228.5	4032.2	3646.5	3558.0	3913.6
38°	4917.6	4601.1	3867.5	3488.6	3597.4	4015.0	4191.7	4005.1	3593.7	3491.9	3868.0
39°	4893.2	4576.1	3827.3	3423.4	3546.2	3980.0	4141.6	3979.8	3555.8	3437.0	3832.0
40°	4873.2	4565.1	3789.8	3366.5	3505.5	3939.1	4085.0	3944.8	3502.3	3371.2	3788.3
41°	4849.8	4548.7	3751.9	3301.4	3458.1	3898.7	4068.6	3916.4	3452.0	3302.9	3746.8
42°	4812.4	4524.5	3706.4	3224.2	3406.7	3846.6	3997.9	3868.5	3394.7	3233.8	3710.4
43°	4773.7	4512.9	3668.4	3160.1	3354.3	3792.6	3941.5	3820.1	3340.7	3158.6	3668.8
44°	4725.3	4498.8	3616.7	3089.6	3302.8	3740.2	3880.7	3768.6	3288.5	3091.5	3623.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	4649.4	4456.4	3578.6	3015.1	3238.8	3683.3	3805.5	3697.2	3243.7	3016.3	3579.8
46°	4581.1	4404.4	3537.2	2938.6	3180.0	3616.6	3759.9	3637.3	3181.2	2938.6	3539.4
47°	4505.0	4352.5	3493.4	2865.7	3124.1	3535.8	3635.7	3579.3	3112.8	2867.1	3483.0
48°	4416.7	4291.9	3445.9	2787.0	3055.7	3463.0	3478.8	3510.7	3050.4	2785.2	3437.0
49°	4348.5	4222.9	3408.8	2666.6	2987.2	3379.9	3380.4	3391.0	2995.1	2712.1	3403.9
50°	4254.4	4112.0	3366.8	2618.0	2911.5	3286.0	3214.5	3348.6	2913.4	2629.5	3363.9
51°	4174.5	4045.8	3329.7	2539.3	2842.7	3173.9	3016.6	3241.8	2841.5	2553.3	3332.2
52°	4080.8	3954.6	3299.3	2457.5	2765.5	2995.2	2819.5	3119.0	2768.3	2469.3	3295.1
53°	3996.4	3851.8	3265.5	2371.5	2693.3	2820.9	2628.8	2959.0	2719.6	2384.3	3253.8
54°	3904.6	3744.9	3229.6	2284.6	2619.3	2638.1	2447.0	2784.2	2610.4	2281.8	3209.6
55°	3811.8	3662.5	3188.3	2196.3	2542.3	2442.7	2309.1	2590.3	2527.7	2206.9	3179.3
56°	3710.1	3581.4	3138.5	2095.8	2443.0	2273.8	2202.9	2420.9	2452.2	2102.2	3138.4
57°	3608.4	3491.5	3096.1	2004.0	2358.6	2132.0	2065.5	2230.9	2367.6	2012.4	3095.2
58°	3510.5	3383.2	3025.0	1915.4	2273.8	2009.4	1951.8	2089.9	2283.2	1919.7	3067.3
59°	3389.0	3278.0	2949.6	1827.4	2188.3	1885.4	1854.9	1980.0	2198.0	1832.1	2971.5
60°	3203.1	3176.0	2863.9	1730.3	2099.8	1780.8	1767.9	1880.7	2109.5	1739.3	2885.0
61°	3003.4	3082.6	2769.9	1643.2	2011.0	1704.0	1627.0	1760.0	2020.9	1652.1	2794.1
62°	2785.0	2959.5	2657.0	1556.6	1913.5	1615.7	1483.2	1668.6	1926.9	1551.6	2689.4
63°	2550.6	2797.7	2521.7	1473.6	1797.7	1500.0	1367.2	1591.8	1826.7	1467.7	2570.1
64°	2304.1	2609.2	2387.1	1382.7	1658.9	1378.3	1274.9	1480.2	1713.0	1382.9	2429.4
65°	2120.0	2404.7	2246.2	1296.7	1543.8	1297.2	1196.7	1361.6	1589.2	1298.2	2290.6
66°	1982.8	2156.9	2100.1	1208.7	1400.3	1232.9	1117.6	1275.1	1457.9	1208.0	2153.9
67°	1867.1	1948.3	1955.3	1116.6	1265.8	1167.8	1031.8	1213.6	1296.3	1121.1	2000.2
68°	1725.2	1781.8	1792.8	1018.7	1136.1	1095.2	953.2	1140.4	1169.2	1022.9	1844.2
69°	1581.0	1647.0	1654.0	927.1	1035.3	1024.3	866.7	1078.8	1052.0	937.7	1702.8
70°	1475.3	1534.9	1537.3	839.2	957.6	957.3	793.4	1007.8	967.5	842.8	1570.6
71°	1381.5	1405.3	1435.8	754.0	889.0	889.5	704.9	944.0	895.6	761.2	1482.1
72°	1305.9	1299.1	1308.3	662.1	813.8	821.8	612.1	878.2	825.4	674.1	1363.0
73°	1230.3	1217.4	1145.2	585.5	756.1	750.0	522.9	811.3	758.7	591.0	1211.2
74°	1146.4	1143.9	970.3	508.1	706.7	669.1	443.7	735.4	705.3	510.2	1029.3
75°	1055.8	1064.9	792.5	436.9	654.4	570.0	383.6	653.6	660.7	440.2	853.3
76°	972.4	995.4	681.1	367.1	607.7	491.1	325.1	560.0	609.5	375.4	721.5
77°	894.7	920.3	606.4	307.2	563.7	425.4	273.9	485.5	568.2	309.5	636.5
78°	818.8	845.3	524.9	253.5	521.4	367.1	224.1	412.7	524.3	255.8	560.0
79°	734.2	787.3	457.1	207.7	480.3	307.5	174.7	351.6	484.3	210.5	479.4
80°	644.8	730.5	380.3	162.1	434.1	261.6	129.2	303.5	442.5	167.5	412.4
81°	553.9	667.3	317.6	128.3	390.9	215.1	85.9	257.2	398.8	131.6	341.5
82°	480.1	574.8	273.2	100.1	347.9	143.0	66.2	206.2	353.5	101.2	291.3
83°	420.4	458.2	240.1	74.2	297.4	63.4	49.6	120.2	309.6	78.2	251.3
84°	356.3	357.0	208.6	56.6	240.1	34.3	38.5	51.0	258.8	56.9	222.2
85°	289.1	296.0	180.1	40.7	196.4	24.0	25.9	31.9	207.6	41.4	194.0
86°	214.0	233.9	154.3	27.7	154.1	14.3	15.1	20.4	167.4	28.4	167.0
87°	159.2	167.9	123.5	18.5	90.9	9.8	0.0	11.8	115.6	17.9	144.5
88°	82.7	109.9	70.9	0.0	0.0	7.8	0.0	0.0	0.0	0.0	96.3
89°	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	35.5



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CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1449872
 CATALOG NUMBER: TWC150_T3_90W_3000K

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1449872
CATALOG NUMBER: TWC150_T3_90W_3000K

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1449872
CATALOG NUMBER: TWC150_T3_90W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	4671.4	4671.4
1°	4671.2	4682.1
2°	4677.9	4687.2
3°	4676.7	4684.6
4°	4696.8	4686.7
5°	4695.0	4702.8
6°	4692.6	4708.6
7°	4693.1	4714.5
8°	4692.2	4719.0
9°	4682.3	4729.3
10°	4686.5	4729.7
11°	4707.4	4736.5
12°	4695.9	4738.0
13°	4734.5	4716.8
14°	4692.9	4749.0
15°	4683.9	4754.6
16°	4681.3	4763.6
17°	4681.1	4775.6
18°	4690.8	4788.0
19°	4689.6	4800.0
20°	4690.1	4788.2
21°	4651.5	4801.2
22°	4666.8	4822.1
23°	4661.9	4813.3
24°	4623.8	4815.7
25°	4664.4	4830.3
26°	4682.3	4835.4
27°	4650.6	4808.4
28°	4647.8	4889.9
29°	4654.4	4818.8
30°	4638.8	4893.0
31°	4632.0	4896.8
32°	4641.2	4901.9
33°	4623.6	4890.9
34°	4617.5	4898.9
35°	4606.4	4898.6
36°	4594.9	4849.3
37°	4582.7	4915.6
38°	4590.9	4917.6
39°	4543.2	4893.2
40°	4565.6	4873.2
41°	4547.5	4849.8
42°	4526.3	4812.4
43°	4498.8	4773.7
44°	4526.1	4725.3



REPORT NUMBER: P1449872
CATALOG NUMBER: TWC150_T3_90W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	4449.3	4649.4
46°	4422.0	4581.1
47°	4386.8	4505.0
48°	4329.5	4416.7
49°	4266.3	4348.5
50°	4183.0	4254.4
51°	4099.5	4174.5
52°	4007.0	4080.8
53°	3907.2	3996.4
54°	3811.8	3904.6
55°	3721.0	3811.8
56°	3626.7	3710.1
57°	3542.7	3608.4
58°	3442.8	3510.5
59°	3343.7	3389.0
60°	3239.7	3203.1
61°	3140.1	3003.4
62°	3022.2	2785.0
63°	2915.6	2550.6
64°	2735.2	2304.1
65°	2532.9	2120.0
66°	2318.5	1982.8
67°	2072.8	1867.1
68°	1907.0	1725.2
69°	1747.5	1581.0
70°	1618.6	1475.3
71°	1496.7	1381.5
72°	1366.0	1305.9
73°	1272.1	1230.3
74°	1198.1	1146.4
75°	1124.6	1055.8
76°	1049.9	972.4
77°	976.8	894.7
78°	908.0	818.8
79°	833.3	734.2
80°	764.5	644.8
81°	718.5	553.9
82°	648.5	480.1
83°	555.7	420.4
84°	426.3	356.3
85°	342.9	289.1
86°	285.8	214.0
87°	220.1	159.2
88°	158.3	82.7
89°	93.5	0.0



REPORT NUMBER: P1449872
CATALOG NUMBER: TWC150_T3_90W_3000K

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1449872
CATALOG NUMBER: TWC150_T3_90W_3000K

CANDELA DISTRIBUTION (continued):

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

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

Scaled Data Report



REPORT NUMBER: P1449872
CATALOG NUMBER: TWC150_T3_90W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-1

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-3000K

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

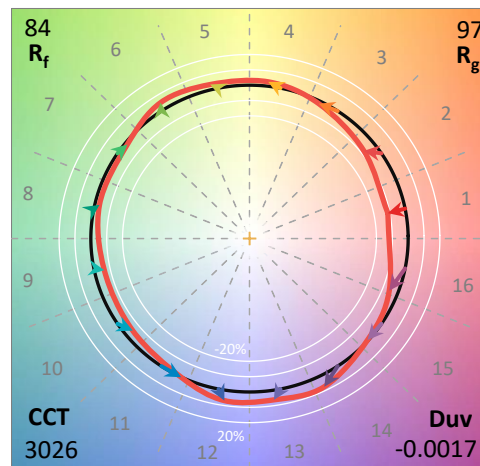
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2601-659-1
 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-3000K**
 Description: Mester Wedge, at T4 beam setting, 24W output, 3000K

Spectral Parameters

CCT (K): 3026
 CIE u': 0.2503
 CIE v': 0.5184
 Duv: -0.0017
 CIE x: 0.4326
 CIE y: 0.3983
 CIE z: 0.1691
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 583
 Purity: 49.3886
 Rf: 84
 Rg: 97.4

CRI (Ra):	82.7		
R1:	81.4	R9:	7.5
R2:	90.7	R10:	78.8
R3:	96.3	R11:	80.8
R4:	81.1	R12:	70.7
R5:	81.6	R13:	83.7
R6:	88.6	R14:	98.6
R7:	82.6	R15:	74.2
R8:	59.3		



Test Conditions

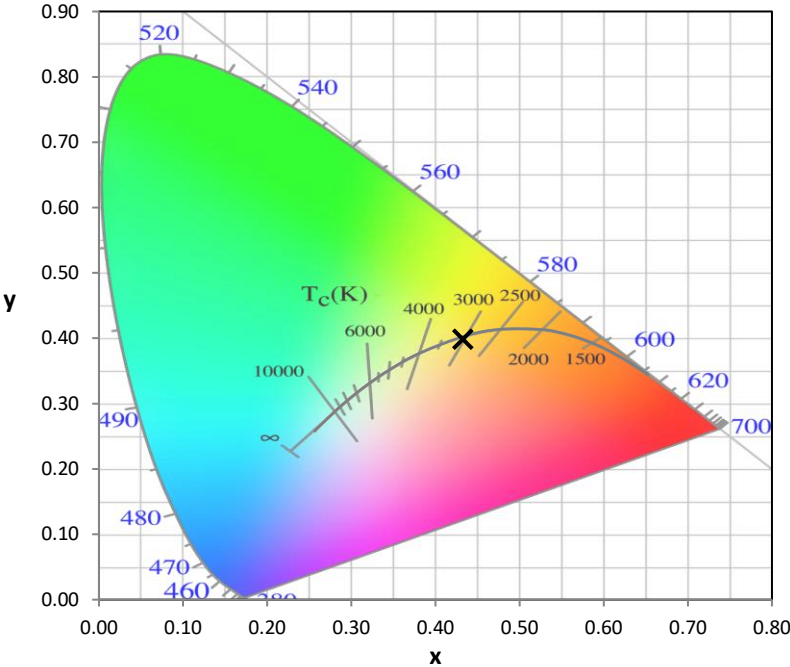
Stabilization Time: 64M
 Operation Time: 2H 4M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-1

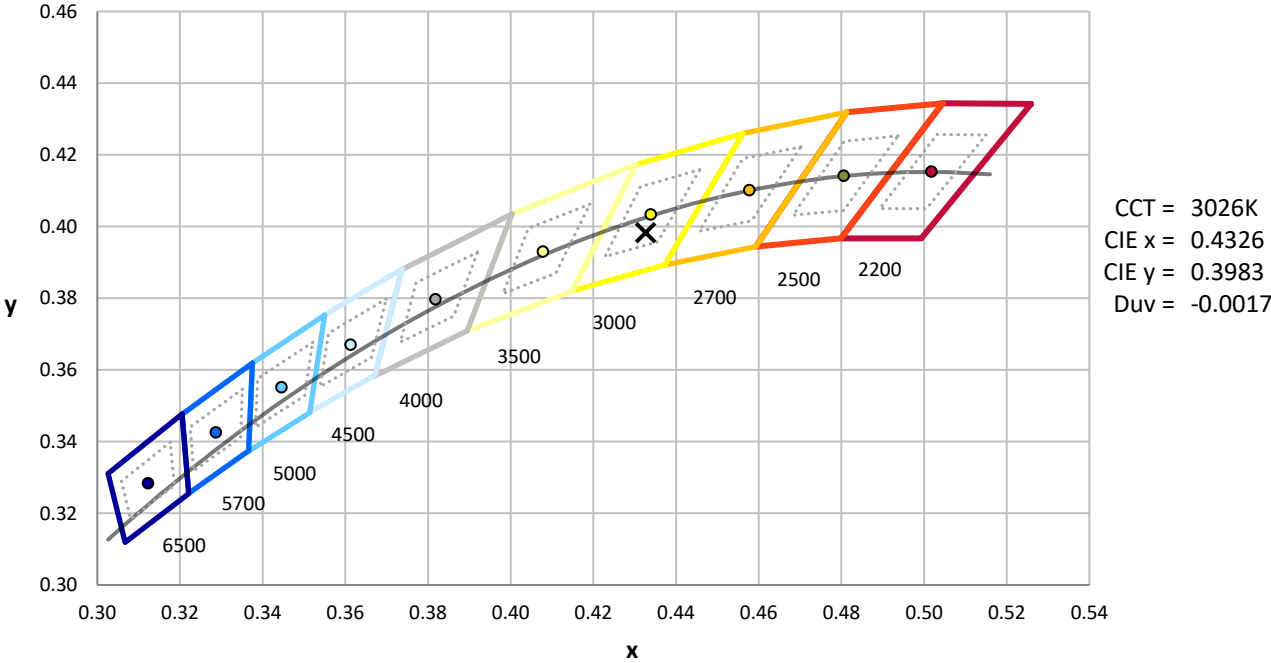
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2601-659-1

CIE 1931 Chromaticity Diagram



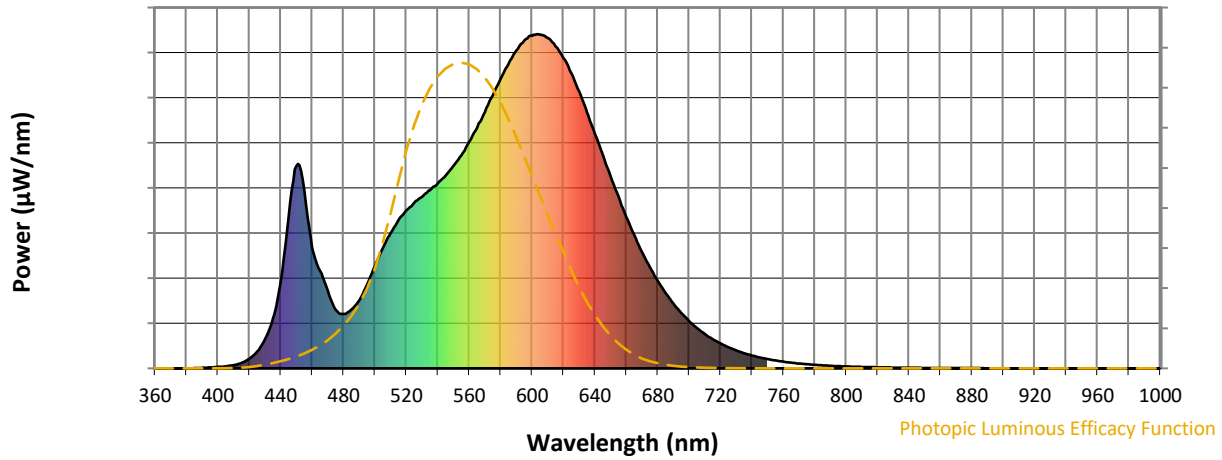
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

Photopic Flux vs. Wavelength

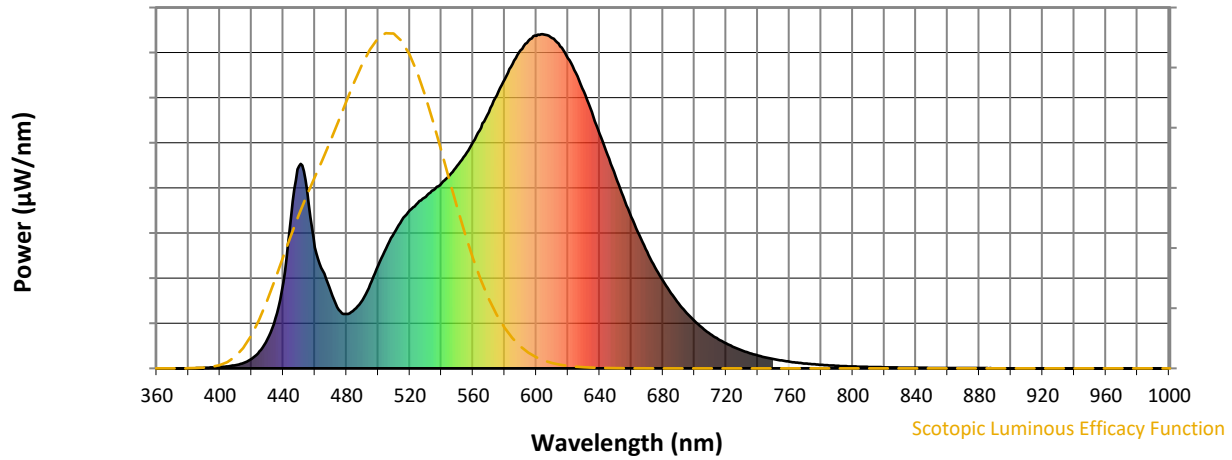


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



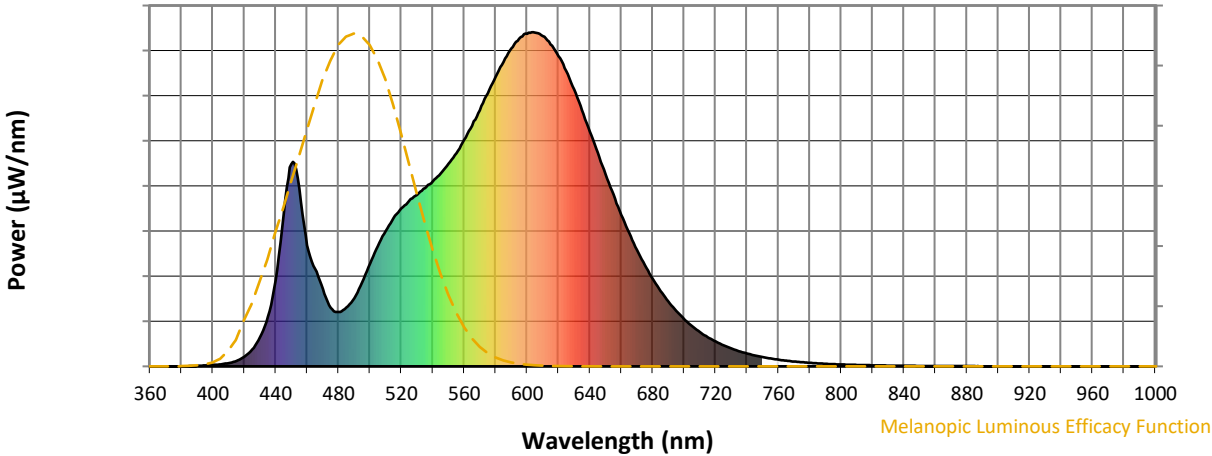
Scotopic Lumens: NR

S/P: 1.35

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-1

Melanopic Flux vs. Wavelength



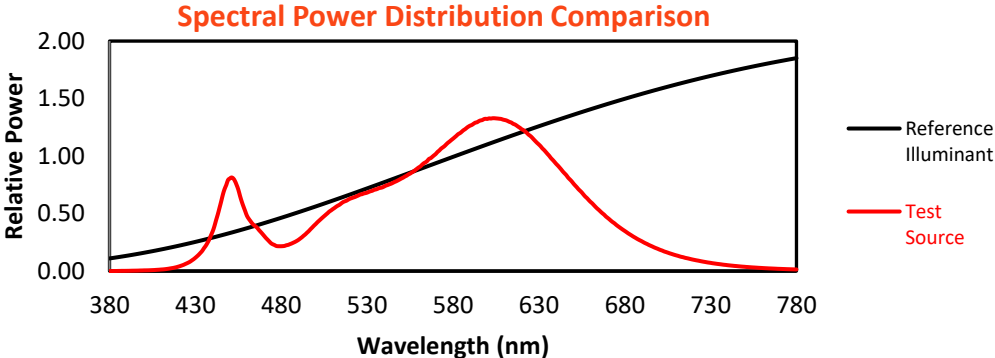
Melanopic Lumens: NR

M/P: 2.61

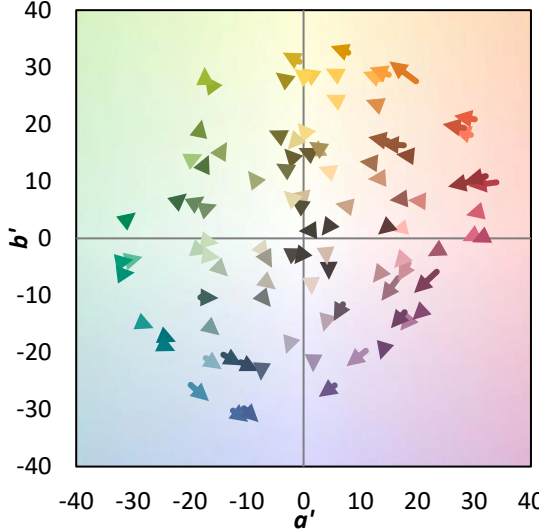
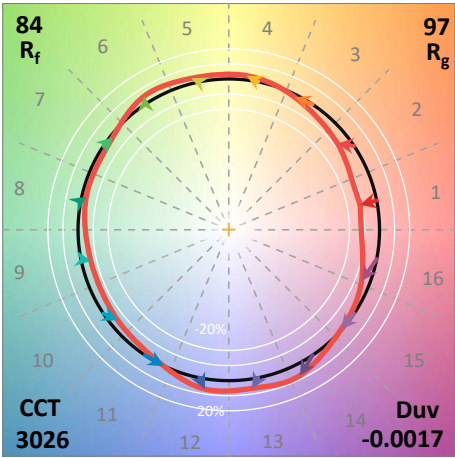
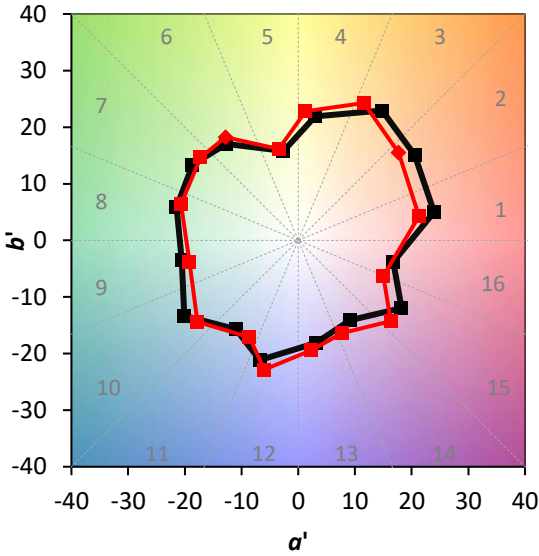
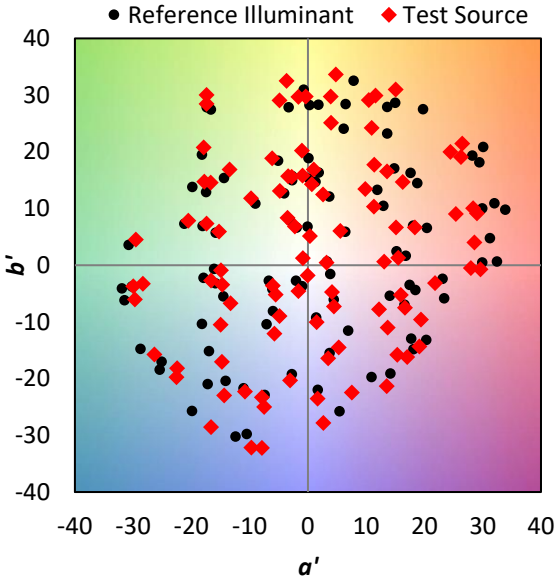
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

Summary

$R_f = 84$
 $R_g = 97.4$
 $CIE R_a = 82.7$
 $R_9 = 7.5$

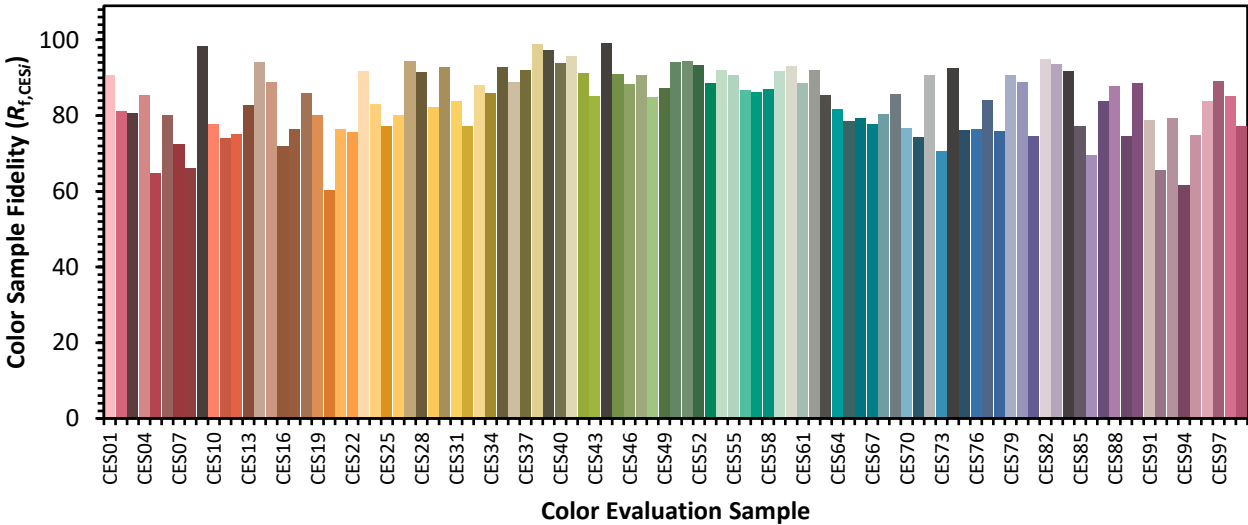


Color Vector Graphics

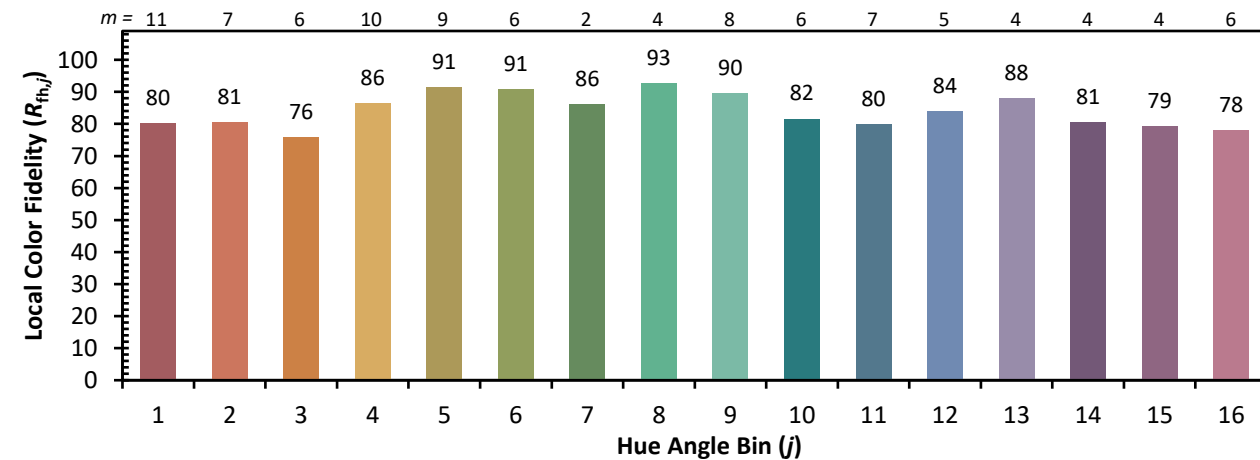
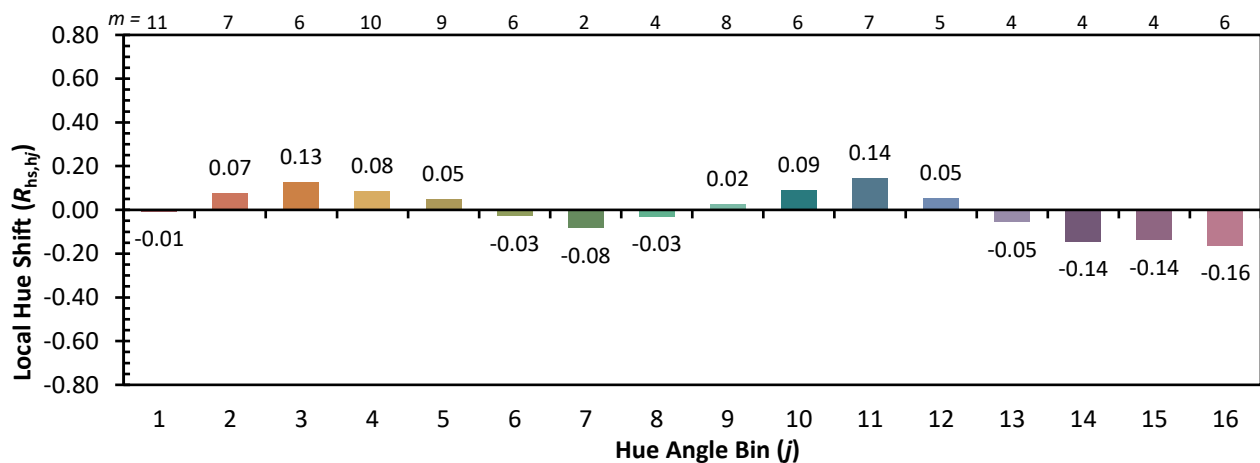
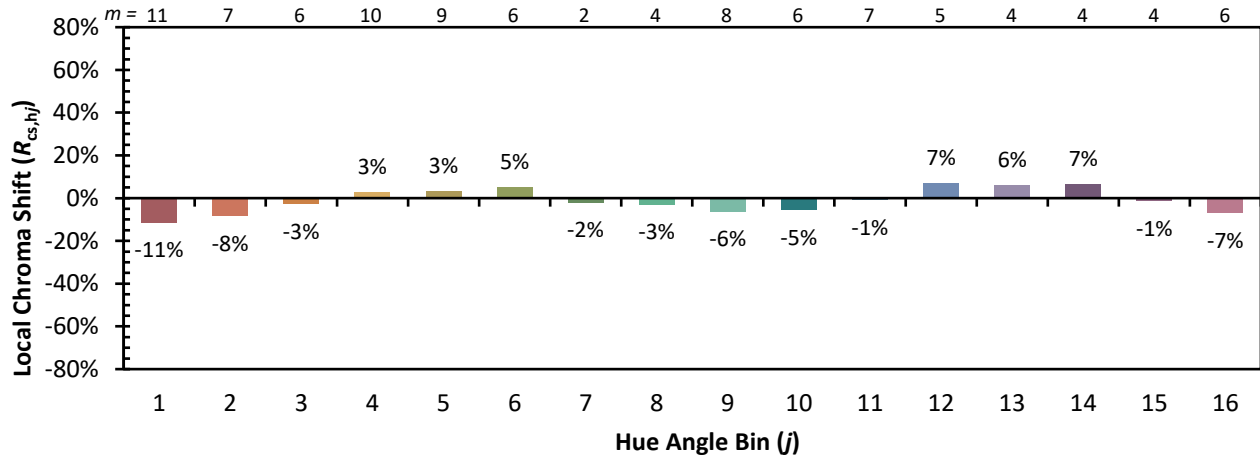


Individual Sample Fidelity Index ($R_{f,i}$)

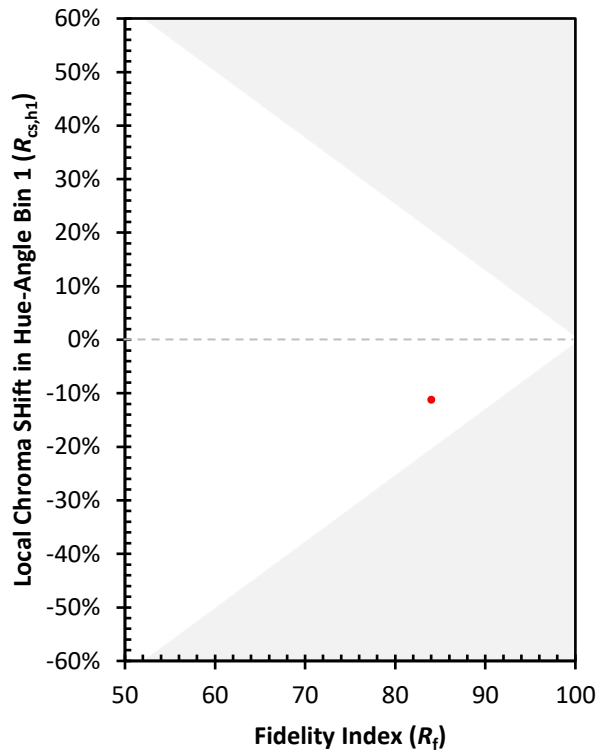
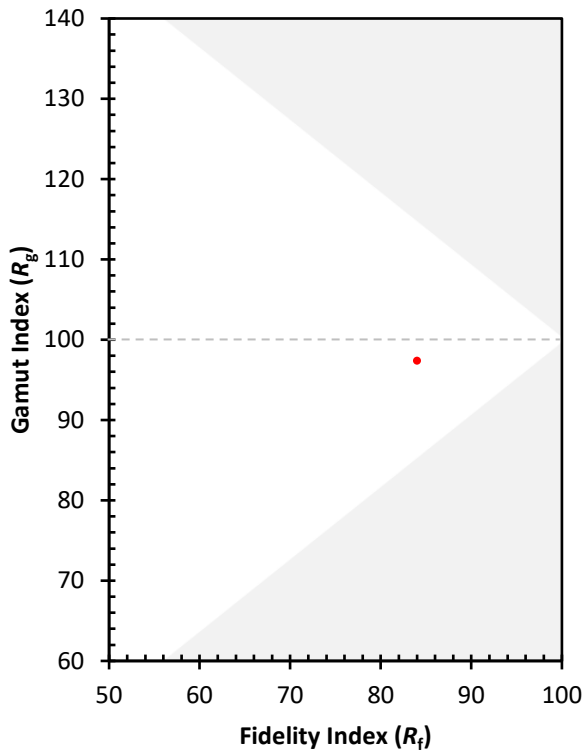
CES01 = 86	CES26 = 80	CES51 = 94	CES76 = 76
CES02 = 63	CES27 = 94	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 92	CES53 = 88	CES78 = 76
CES04 = 70	CES29 = 82	CES54 = 92	CES79 = 91
CES05 = 50	CES30 = 93	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 75
CES07 = 42	CES32 = 77	CES57 = 86	CES82 = 95
CES08 = 41	CES33 = 88	CES58 = 87	CES83 = 93
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 93	CES60 = 93	CES85 = 77
CES11 = 59	CES36 = 89	CES61 = 89	CES86 = 69
CES12 = 65	CES37 = 92	CES62 = 92	CES87 = 84
CES13 = 43	CES38 = 99	CES63 = 85	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 82	CES89 = 75
CES15 = 72	CES40 = 94	CES65 = 79	CES90 = 89
CES16 = 48	CES41 = 96	CES66 = 79	CES91 = 79
CES17 = 50	CES42 = 91	CES67 = 78	CES92 = 66
CES18 = 57	CES43 = 85	CES68 = 80	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 86	CES94 = 62
CES20 = 67	CES45 = 91	CES70 = 77	CES95 = 75
CES21 = 87	CES46 = 88	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 91	CES72 = 91	CES97 = 89
CES23 = 92	CES48 = 85	CES73 = 71	CES98 = 85
CES24 = 91	CES49 = 87	CES74 = 93	CES99 = 77
CES25 = 72	CES50 = 94	CES75 = 76	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)