

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: P1449874

Luminaire Tested: **TWC150\_T3\_90W\_5000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449874  
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\_5000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 90W  
5000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

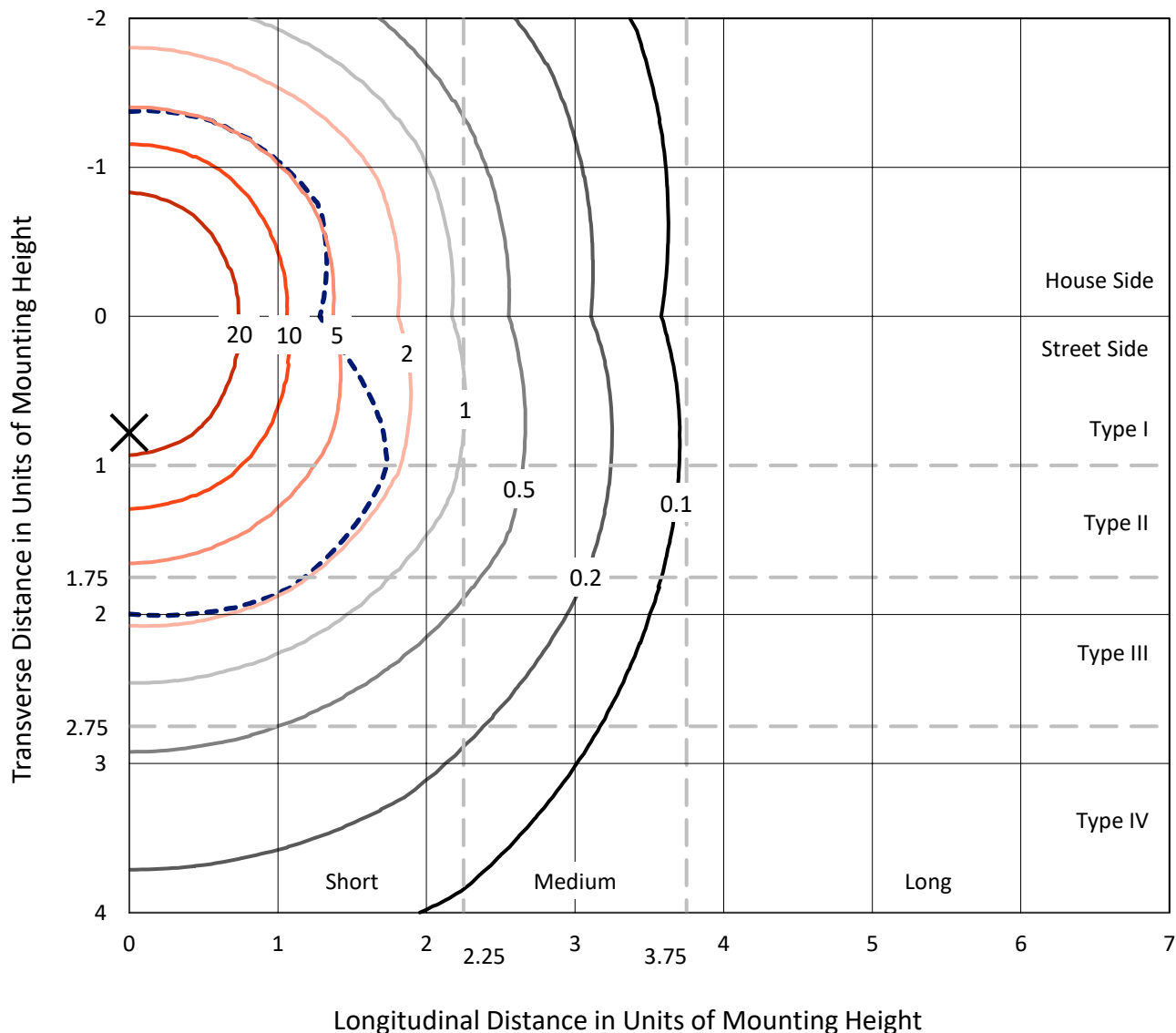
Lumens per Lamp: N/A  
Luminaire Lumens: 15422 lumens  
Efficiency: N/A  
Efficacy: 181.6 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 0.42' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 84.9  
Input Voltage (V): NR  
Input Current (Ain): 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

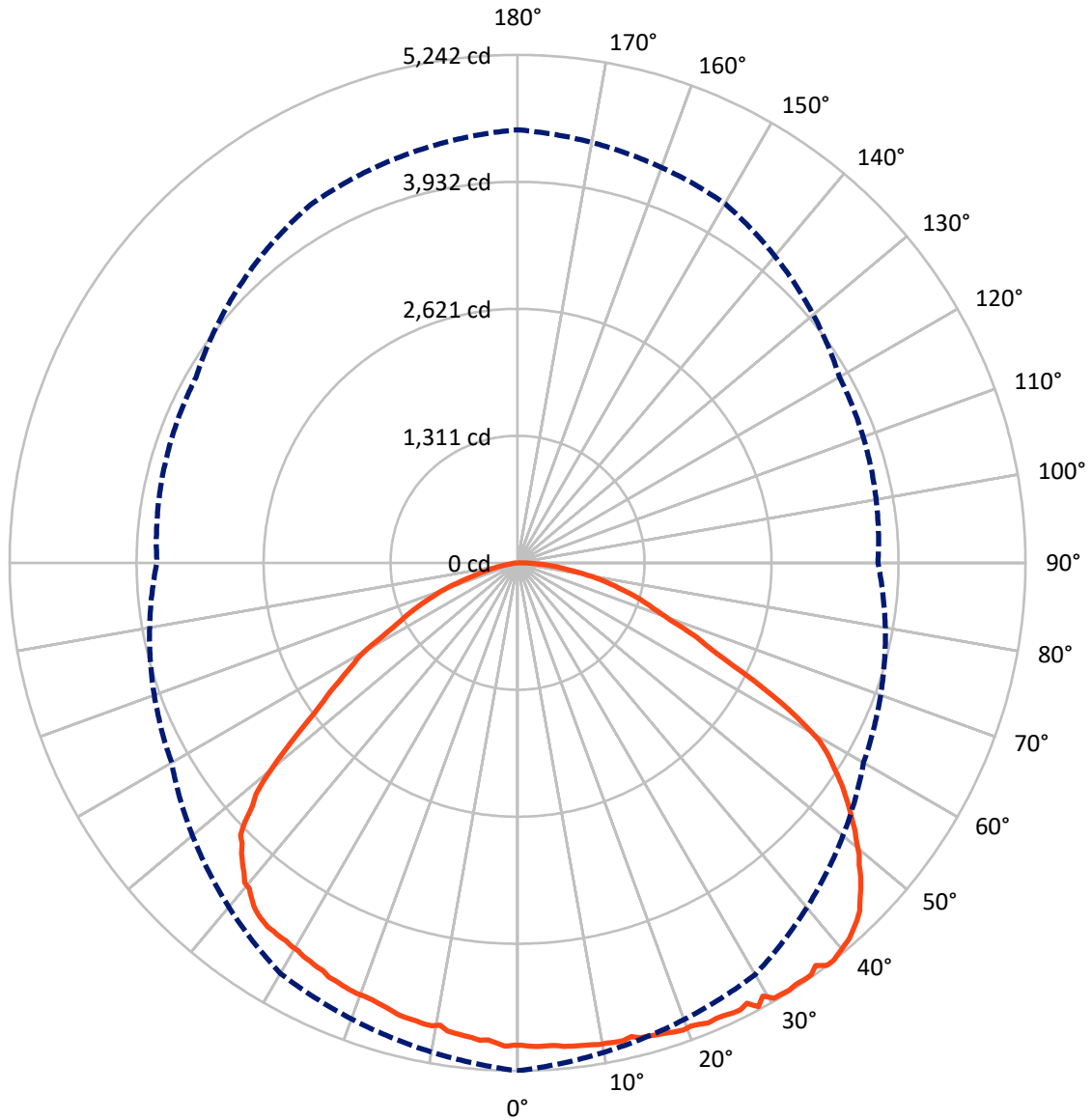
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 49.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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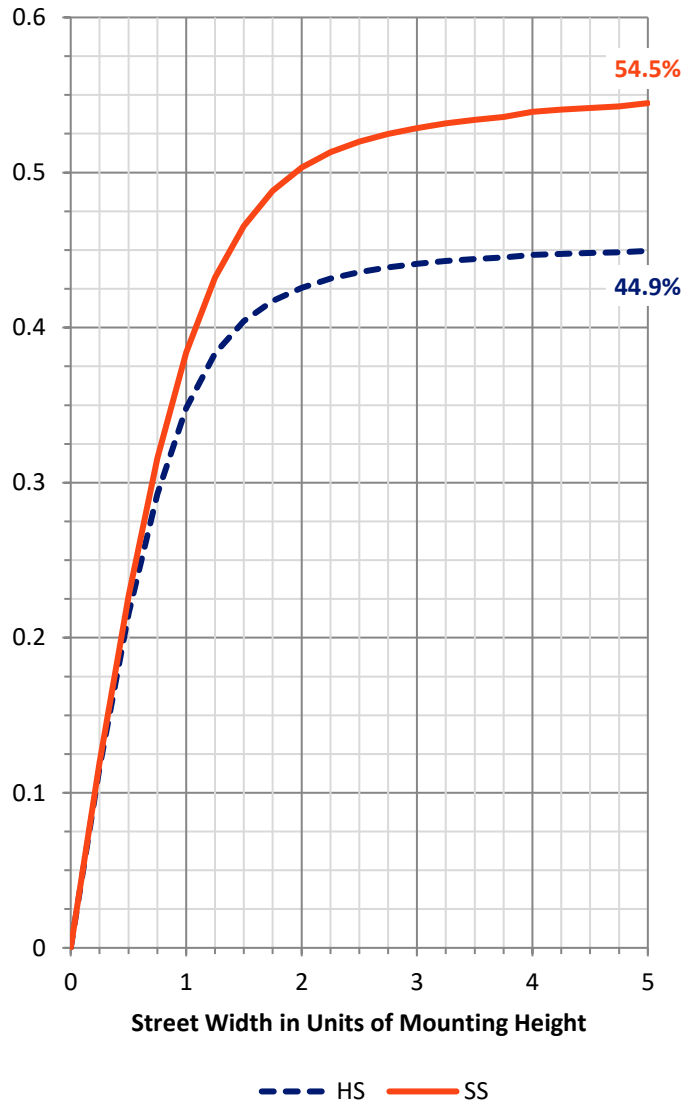
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6964.2	0.0	6964.2
	% Fixture	45.2	0.0	45.2
<b>Street Side</b>	Lumens	8457.8	0.0	8457.8
	% Fixture	54.8	0.0	54.8
<b>Total</b>	Lumens	15422.0	0.0	15422.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.5	3.1
10°-20°	1374.0	8.9
20°-30°	2154.8	14.0
30°-40°	2749.7	17.8
40°-50°	3033.8	19.7
50°-60°	2733.0	17.7
60°-70°	1861.7	12.1
70°-80°	844.2	5.5
80°-90°	198.4	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°	15422.0	100.0
0°-180°	15422.0	100.0

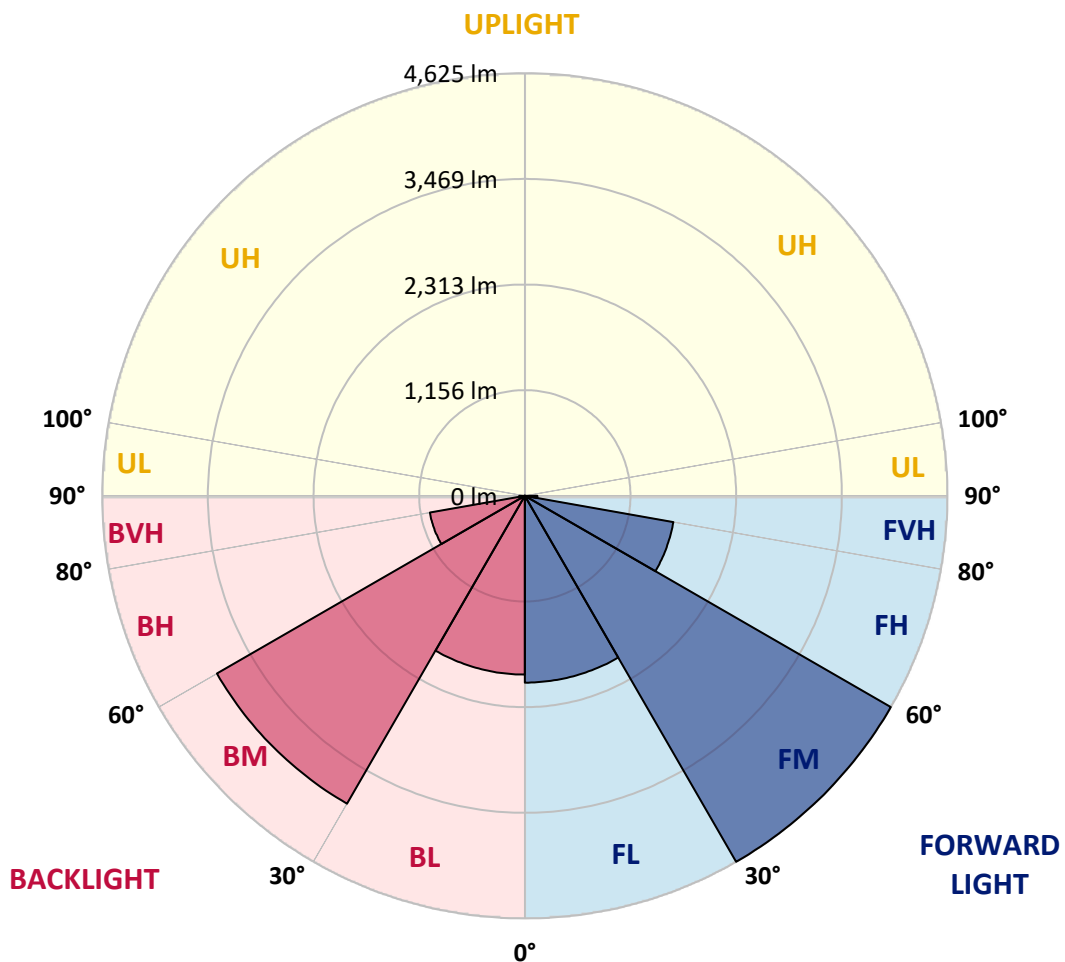


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2044.8	13.3			
FM	(30°-60°)	4625.3	30.0			
FH	(60°-80°)	1650.7	10.7			G1/1800
FVH	(80°-90°)	137.1	0.9			G2/225
BL	(0°-30°)	1956.5	12.7	B3/2500		
BM	(30°-60°)	3891.2	25.2	B3/5000		
BH	(60°-80°)	1055.2	6.8	B3/2500		G3/2500
BVH	(80°-90°)	61.3	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	4979.8	4979.8	4979.8	4979.8	4979.8	4979.8	4979.8	4979.8	4979.8	4979.8	4979.8
1°	4991.2	5007.5	4986.9	4972.1	4976.4	4980.1	4980.1	4963.2	4976.5	4978.4	4984.0
2°	4996.6	5003.5	5012.4	4982.5	4987.9	4967.1	4991.0	4981.4	4971.0	4906.9	4991.0
3°	4993.8	5013.7	4997.7	4968.7	4965.6	4970.2	4960.6	4954.4	4963.4	4973.8	4988.4
4°	4996.0	4995.1	4997.5	4970.8	4963.2	4943.7	4932.4	4948.7	4954.8	4980.8	4978.4
5°	5013.3	4991.8	4976.4	4999.4	4939.4	4928.5	4943.7	4940.3	4945.2	4969.7	4974.7
6°	5019.4	4994.2	4976.4	4944.2	4925.9	4914.2	4922.7	4927.5	4932.9	4994.7	4971.5
7°	5025.7	4997.5	4962.4	4929.0	4913.6	4904.0	4910.5	4929.8	4925.1	4930.5	4964.1
8°	5030.6	5003.3	4954.3	4909.3	4901.7	4894.3	4900.1	4923.8	4905.6	4925.1	4957.2
9°	5041.5	5011.8	4953.7	4891.9	4881.3	4823.2	4886.5	4892.6	4895.2	4909.2	4965.2
10°	5041.9	5007.9	4893.0	4885.2	4864.4	4859.8	4837.9	4874.6	4869.2	4891.0	4953.9
11°	5049.1	5015.5	4931.6	4873.3	4852.7	4844.2	4860.0	4853.5	4871.1	4890.2	4926.0
12°	5050.8	5013.7	4920.7	4863.9	4837.1	4835.8	4855.1	4878.2	4826.4	4841.6	4902.8
13°	5028.1	5007.9	4938.1	4827.8	4813.9	4819.5	4842.7	4829.1	4801.9	4820.8	4891.1
14°	5062.5	5017.4	4895.8	4808.3	4770.9	4815.8	4836.2	4761.8	4781.4	4803.0	4879.1
15°	5068.4	4989.0	4872.6	4773.6	4749.1	4803.3	4827.7	4785.0	4706.6	4777.4	4866.5
16°	5078.1	5066.2	4852.0	4743.8	4735.2	4780.7	4806.3	4781.1	4723.1	4761.6	4853.1
17°	5090.9	5030.2	4830.6	4731.3	4693.6	4761.6	4784.2	4756.4	4700.1	4729.1	4846.2
18°	5104.1	5004.8	4805.0	4728.0	4665.6	4726.1	4767.9	4730.6	4674.1	4686.2	4822.5
19°	5116.9	5011.1	4785.1	4657.8	4640.2	4702.2	4751.9	4723.5	4649.1	4674.1	4801.5
20°	5104.3	5011.1	4766.2	4629.0	4613.4	4678.4	4744.5	4717.8	4610.5	4648.7	4772.0
21°	5118.2	5004.8	4747.5	4594.1	4585.6	4714.8	4744.9	4683.8	4574.8	4599.1	4705.7
22°	5140.5	4937.7	4721.8	4563.9	4549.0	4656.5	4733.5	4665.6	4550.9	4563.1	4730.2
23°	5131.0	4983.2	4691.0	4524.3	4519.1	4646.3	4722.0	4631.1	4509.3	4524.1	4706.3
24°	5133.6	4984.5	4669.1	4482.0	4471.4	4632.2	4704.4	4618.1	4470.7	4488.5	4668.0
25°	5149.2	4981.2	4650.4	4446.7	4423.2	4601.0	4698.5	4592.8	4441.0	4447.3	4637.8
26°	5154.6	4965.2	4556.3	4403.8	4392.2	4577.6	4665.6	4610.3	4391.6	4410.5	4595.4
27°	5125.8	4962.4	4509.5	4368.6	4353.9	4560.2	4655.2	4550.9	4353.5	4364.1	4559.0
28°	5212.7	4956.7	4571.5	4303.6	4312.0	4519.5	4635.0	4526.9	4308.2	4313.3	4524.5
29°	5136.9	4950.6	4490.5	4284.5	4272.0	4508.5	4625.9	4500.4	4273.3	4265.9	4511.5
30°	5216.0	4960.8	4445.2	4201.7	4234.7	4485.2	4600.3	4474.4	4229.2	4219.5	4465.9
31°	5220.1	4959.3	4418.0	4150.1	4193.0	4466.4	4593.9	4449.7	4207.8	4162.3	4423.9
32°	5225.5	4958.7	4377.3	4095.9	4158.3	4427.2	4575.2	4429.8	4154.0	4109.6	4406.4
33°	5213.8	4951.8	4345.9	4043.3	4113.0	4413.3	4574.3	4412.8	4107.6	4036.1	4345.4
34°	5222.3	4935.1	4336.8	3980.4	4058.2	4387.5	4560.2	4395.3	4058.6	3973.0	4301.0
35°	5222.0	4917.7	4219.9	3917.9	4008.3	4367.8	4555.5	4364.7	3995.3	3916.4	4252.9
36°	5169.4	4919.2	4206.7	3855.1	3942.9	4340.2	4533.6	4318.5	3943.8	3849.2	4220.6
37°	5240.1	4906.9	4164.2	3783.8	3886.5	4308.8	4507.6	4298.4	3887.2	3792.9	4172.0
38°	5242.2	4904.9	4122.8	3718.9	3834.9	4280.0	4468.4	4269.4	3831.0	3722.4	4123.4
39°	5216.2	4878.2	4079.9	3649.4	3780.3	4242.7	4415.0	4242.5	3790.5	3663.9	4084.9
40°	5194.8	4866.5	4040.0	3588.7	3736.9	4199.1	4354.7	4205.2	3733.5	3593.7	4038.3
41°	5170.0	4849.0	3999.5	3519.3	3686.4	4156.0	4337.2	4175.0	3679.9	3521.0	3994.2
42°	5130.1	4823.2	3951.1	3437.1	3631.6	4100.5	4261.8	4123.9	3618.8	3447.3	3955.4
43°	5088.8	4810.8	3910.6	3368.7	3575.7	4043.0	4201.7	4072.3	3561.2	3367.1	3911.0
44°	5037.2	4795.7	3855.5	3293.6	3520.8	3987.1	4136.9	4017.4	3505.6	3295.6	3862.7



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	4956.3	4750.6	3814.8	3214.1	3452.7	3926.4	4056.7	3941.2	3457.8	3215.4	3816.1
46°	4883.5	4695.1	3770.6	3132.6	3389.9	3855.3	4008.1	3877.4	3391.2	3132.6	3773.1
47°	4802.4	4639.8	3724.1	3054.8	3330.3	3769.2	3875.7	3815.6	3318.3	3056.3	3712.9
48°	4708.3	4575.2	3673.4	2970.9	3257.4	3691.6	3708.5	3742.4	3251.8	2969.1	3663.9
49°	4635.5	4501.7	3633.8	2842.6	3184.4	3603.0	3603.6	3614.9	3192.8	2891.1	3628.6
50°	4535.3	4383.4	3589.1	2790.9	3103.7	3503.0	3426.7	3569.6	3105.7	2803.1	3585.9
51°	4450.1	4312.9	3549.6	2706.9	3030.3	3383.4	3215.8	3455.8	3029.0	2721.8	3552.1
52°	4350.2	4215.6	3517.1	2619.7	2948.1	3192.9	3005.6	3324.9	2951.1	2632.3	3512.6
53°	4260.2	4106.1	3481.1	2528.0	2871.1	3007.1	2802.4	3154.3	2899.1	2541.7	3468.6
54°	4162.3	3992.1	3442.8	2435.4	2792.2	2812.2	2608.6	2968.0	2782.7	2432.4	3421.5
55°	4063.4	3904.3	3398.8	2341.2	2710.1	2603.9	2461.5	2761.3	2694.5	2352.6	3389.2
56°	3955.0	3817.8	3345.7	2234.1	2604.3	2423.9	2348.3	2580.7	2614.1	2241.0	3345.5
57°	3846.6	3722.0	3300.4	2136.3	2514.3	2272.7	2201.8	2378.2	2523.9	2145.2	3299.5
58°	3742.2	3606.5	3224.7	2041.8	2423.9	2142.1	2080.6	2227.8	2433.9	2046.5	3269.8
59°	3612.7	3494.4	3144.3	1948.1	2332.7	2009.9	1977.4	2110.7	2343.1	1953.1	3167.7
60°	3414.6	3385.6	3053.0	1844.5	2238.4	1898.3	1884.6	2004.9	2248.8	1854.1	3075.4
61°	3201.7	3286.1	2952.7	1751.7	2143.7	1816.5	1734.4	1876.2	2154.3	1761.1	2978.5
62°	2968.9	3154.9	2832.4	1659.4	2039.8	1722.3	1581.1	1778.8	2054.1	1654.0	2867.0
63°	2719.0	2982.4	2688.2	1570.9	1916.3	1599.1	1457.4	1696.9	1947.3	1564.5	2739.8
64°	2456.2	2781.4	2544.7	1473.9	1768.4	1469.3	1359.0	1577.9	1826.1	1474.1	2589.8
65°	2259.9	2563.5	2394.5	1382.2	1645.7	1382.8	1275.7	1451.5	1694.1	1383.9	2441.9
66°	2113.7	2299.3	2238.8	1288.5	1492.7	1314.3	1191.4	1359.2	1554.1	1287.8	2296.1
67°	1990.4	2076.9	2084.3	1190.3	1349.4	1244.9	1099.9	1293.7	1381.9	1195.1	2132.2
68°	1839.1	1899.4	1911.1	1086.0	1211.1	1167.5	1016.2	1215.7	1246.4	1090.4	1965.9
69°	1685.4	1755.7	1763.2	988.3	1103.6	1091.9	923.9	1150.0	1121.4	999.6	1815.2
70°	1572.7	1636.2	1638.8	894.6	1020.8	1020.4	845.8	1074.3	1031.4	898.5	1674.3
71°	1472.6	1498.1	1530.6	803.8	947.7	948.2	751.5	1006.3	954.7	811.4	1579.9
72°	1392.1	1384.8	1394.7	705.8	867.5	876.0	652.5	936.2	879.9	718.6	1453.0
73°	1311.5	1297.8	1220.7	624.1	806.0	799.5	557.5	864.9	808.8	630.1	1291.1
74°	1222.0	1219.4	1034.4	541.7	753.3	713.2	473.0	783.9	751.8	543.9	1097.3
75°	1125.5	1135.2	844.8	465.8	697.6	607.6	409.0	696.7	704.3	469.3	909.6
76°	1036.6	1061.1	726.0	391.3	647.9	523.5	346.6	597.0	649.7	400.2	769.1
77°	953.8	981.1	646.4	327.5	600.9	453.5	292.0	517.6	605.7	329.9	678.5
78°	872.9	901.1	559.5	270.3	555.8	391.3	238.9	440.0	559.0	272.7	597.0
79°	782.6	839.3	487.3	221.5	512.0	327.8	186.2	374.8	516.3	224.4	511.1
80°	687.4	778.7	405.4	172.8	462.8	278.8	137.7	323.6	471.7	178.6	439.6
81°	590.5	711.4	338.6	136.8	416.8	229.3	91.5	274.2	425.1	140.3	364.0
82°	511.8	612.8	291.3	106.7	370.9	152.4	70.5	219.8	376.8	107.9	310.6
83°	448.1	488.4	256.0	79.1	317.1	67.6	52.9	128.1	330.1	83.3	267.9
84°	379.8	380.6	222.4	60.3	256.0	36.6	41.0	54.4	275.9	60.7	236.9
85°	308.2	315.6	191.9	43.4	209.4	25.6	27.7	34.0	221.3	44.2	206.8
86°	228.1	249.3	164.5	29.5	164.3	15.2	16.1	21.7	178.4	30.3	178.0
87°	169.7	179.0	131.6	19.7	96.9	10.4	0.0	12.6	123.3	19.1	154.1
88°	88.2	117.1	75.6	0.0	0.0	8.4	0.0	0.0	0.0	0.0	102.7
89°	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	37.9



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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: P1449874  
 CATALOG NUMBER: TWC150\_T3\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P1449874  
CATALOG NUMBER: TWC150\_T3\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P1449874  
CATALOG NUMBER: TWC150\_T3\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	4979.8	4979.8
1°	4979.5	4991.2
2°	4986.7	4996.6
3°	4985.4	4993.8
4°	5006.8	4996.0
5°	5004.9	5013.3
6°	5002.3	5019.4
7°	5002.9	5025.7
8°	5002.0	5030.6
9°	4991.4	5041.5
10°	4995.8	5041.9
11°	5018.1	5049.1
12°	5005.9	5050.8
13°	5047.1	5028.1
14°	5002.7	5062.5
15°	4993.1	5068.4
16°	4990.3	5078.1
17°	4990.1	5090.9
18°	5000.5	5104.1
19°	4999.2	5116.9
20°	4999.7	5104.3
21°	4958.5	5118.2
22°	4974.9	5140.5
23°	4969.7	5131.0
24°	4929.0	5133.6
25°	4972.3	5149.2
26°	4991.4	5154.6
27°	4957.6	5125.8
28°	4954.6	5212.7
29°	4961.7	5136.9
30°	4945.0	5216.0
31°	4937.7	5220.1
32°	4947.6	5225.5
33°	4928.8	5213.8
34°	4922.3	5222.3
35°	4910.5	5222.0
36°	4898.2	5169.4
37°	4885.2	5240.1
38°	4893.9	5242.2
39°	4843.1	5216.2
40°	4867.0	5194.8
41°	4847.7	5170.0
42°	4825.1	5130.1
43°	4795.7	5088.8
44°	4824.9	5037.2



REPORT NUMBER: P1449874  
CATALOG NUMBER: TWC150\_T3\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	4743.0	4956.3
46°	4713.9	4883.5
47°	4676.4	4802.4
48°	4615.3	4708.3
49°	4547.9	4635.5
50°	4459.2	4535.3
51°	4370.1	4450.1
52°	4271.5	4350.2
53°	4165.1	4260.2
54°	4063.4	4162.3
55°	3966.7	4063.4
56°	3866.1	3955.0
57°	3776.6	3846.6
58°	3670.0	3742.2
59°	3564.4	3612.7
60°	3453.6	3414.6
61°	3347.4	3201.7
62°	3221.7	2968.9
63°	3108.1	2719.0
64°	2915.8	2456.2
65°	2700.1	2259.9
66°	2471.6	2113.7
67°	2209.6	1990.4
68°	2032.9	1839.1
69°	1862.9	1685.4
70°	1725.5	1572.7
71°	1595.5	1472.6
72°	1456.1	1392.1
73°	1356.1	1311.5
74°	1277.2	1222.0
75°	1198.8	1125.5
76°	1119.2	1036.6
77°	1041.2	953.8
78°	967.9	872.9
79°	888.3	782.6
80°	814.9	687.4
81°	765.9	590.5
82°	691.3	511.8
83°	592.4	448.1
84°	454.4	379.8
85°	365.5	308.2
86°	304.6	228.1
87°	234.6	169.7
88°	168.7	88.2
89°	99.7	0.0



REPORT NUMBER: P1449874  
CATALOG NUMBER: TWC150\_T3\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P1449874  
CATALOG NUMBER: TWC150\_T3\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

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

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

Scaled Data Report



REPORT NUMBER: P1449874  
CATALOG NUMBER: TWC150\_T3\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
180°	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-3

Test Date: 02/12/2026

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

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

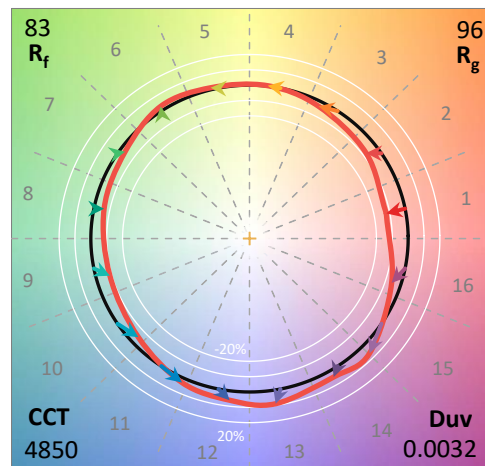
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2601-659-3  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 02/16/2026  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Lumark  
 Catalog Number: **MWP2460W34VDDKYYAD-T4-24W-5000K**  
 Description: Mester Wedge, at T4 beam setting, 24W output, 5000K

**Spectral Parameters**

CCT (K): 4850  
 CIE u': 0.2108  
 CIE v': 0.4905  
 Duv: 0.0032  
 CIE x: 0.3503  
 CIE y: 0.3623  
 CIE z: 0.2875  
 Peak Wavelength (nm): 452  
 Dominant Wavelength (nm): 571  
 Purity: 13.81051  
 R<sub>f</sub>: 83.1  
 R<sub>g</sub>: 95.8

CRI (Ra):	82.6		
R1:	80.9	R9:	8.5
R2:	87.6	R10:	69.7
R3:	92.0	R11:	80.6
R4:	81.9	R12:	52.2
R5:	80.4	R13:	82.7
R6:	82.0	R14:	95.7
R7:	88.2	R15:	74.9
R8:	67.7		



**Test Conditions**

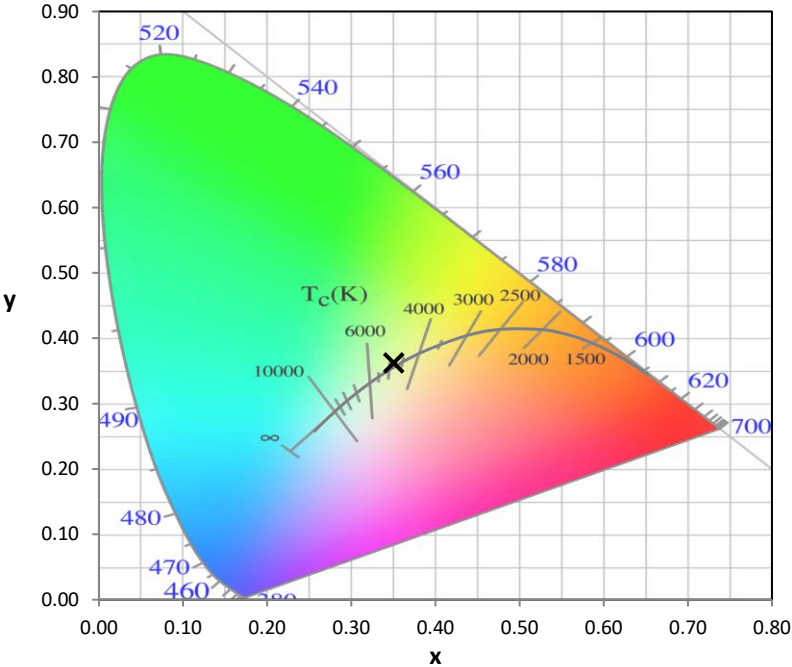
Stabilization Time: 25M  
 Operation Time: 1H 25M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

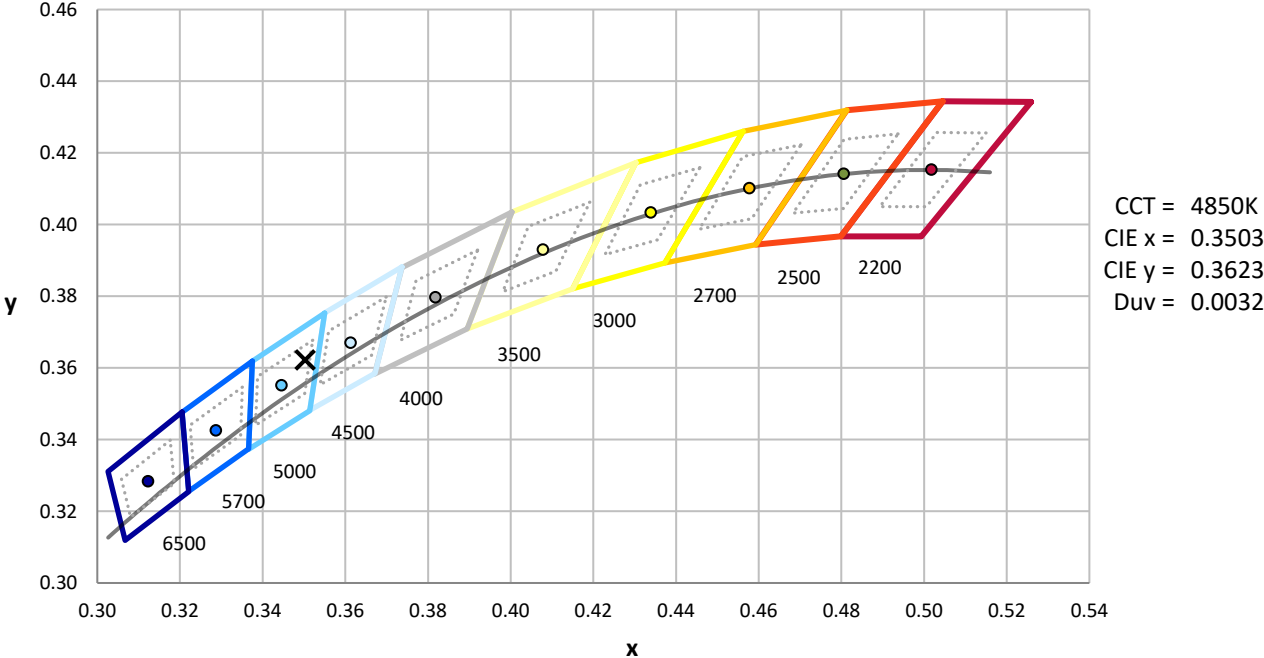
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2601-659-3

CIE 1931 Chromaticity Diagram



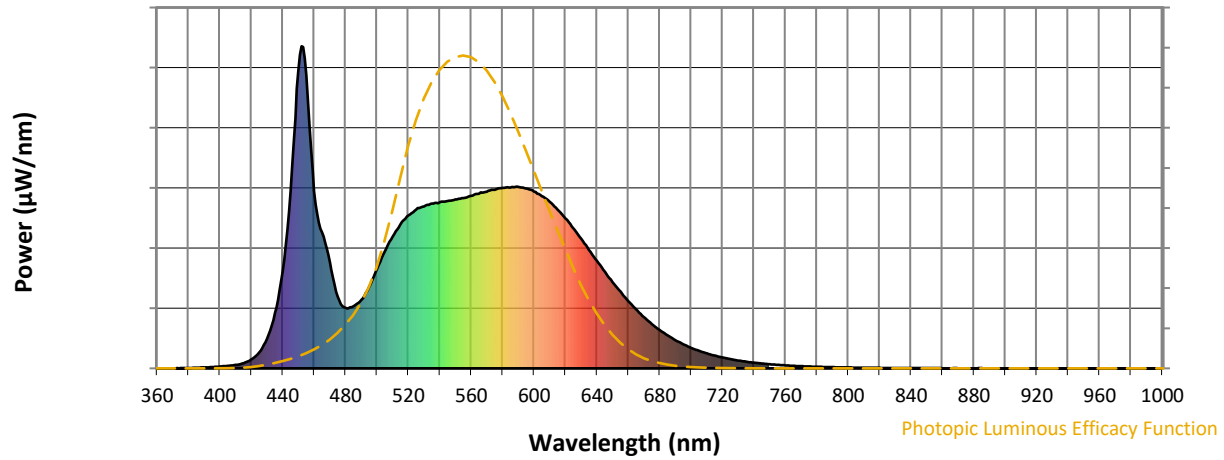
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

**Photopic Flux vs. Wavelength**

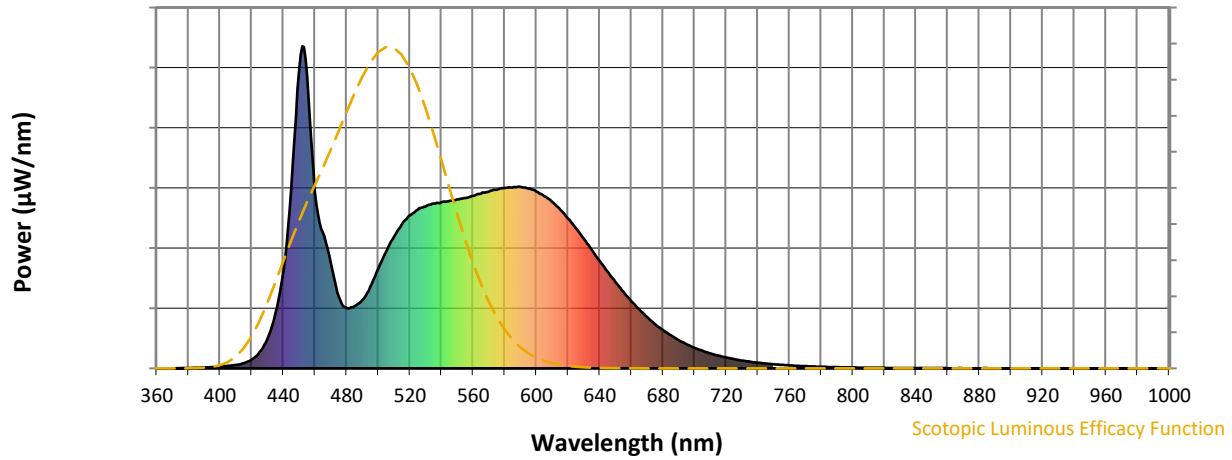


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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**Scotopic Flux vs. Wavelength**



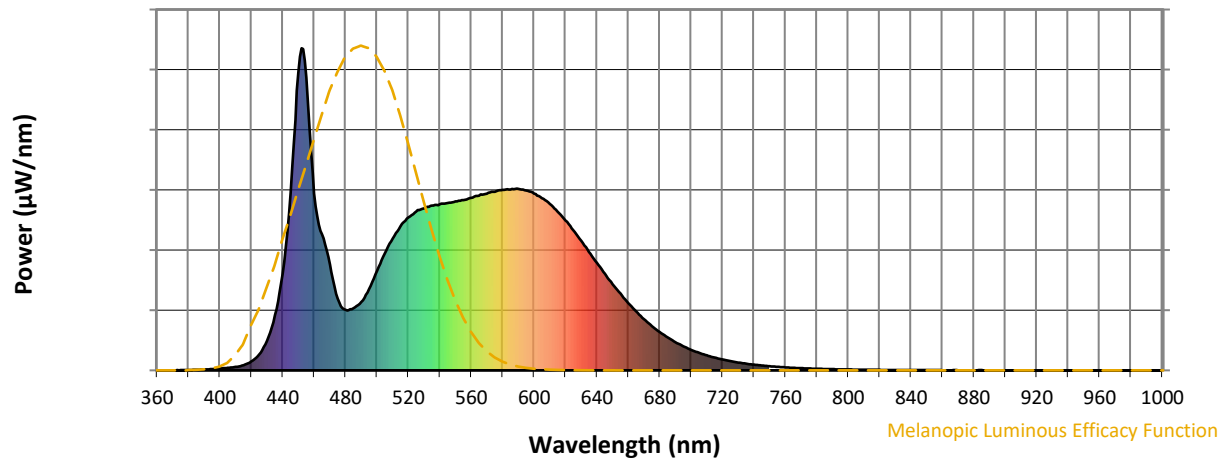
**Scotopic Lumens: NR**

**S/P: 1.9**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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**Melanopic Flux vs. Wavelength**



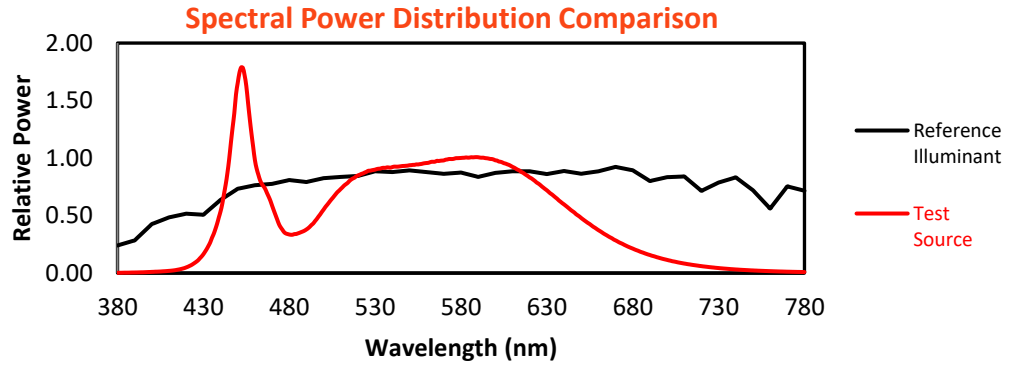
**Melanopic Lumens: NR**

**M/P: 4**

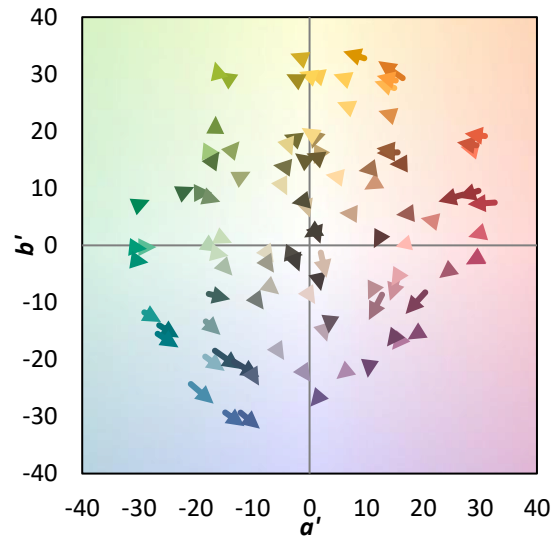
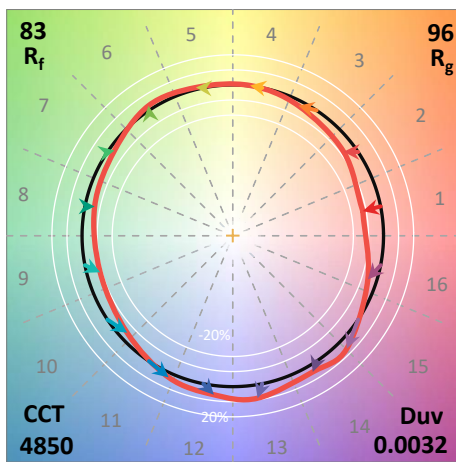
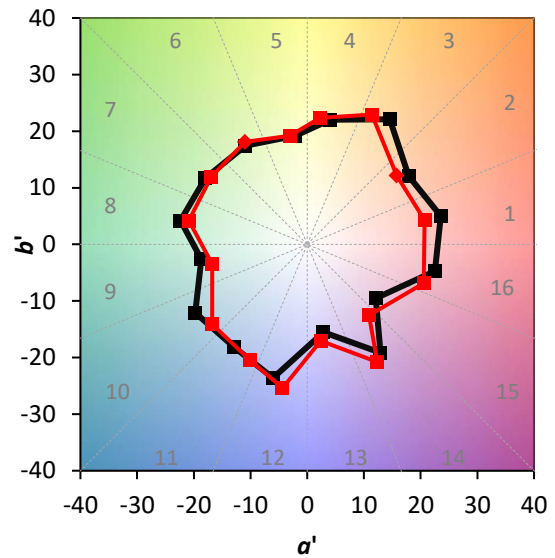
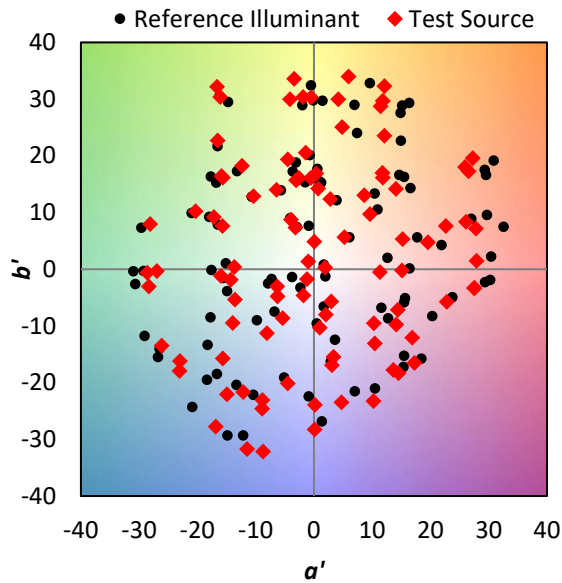
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

**Summary**

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

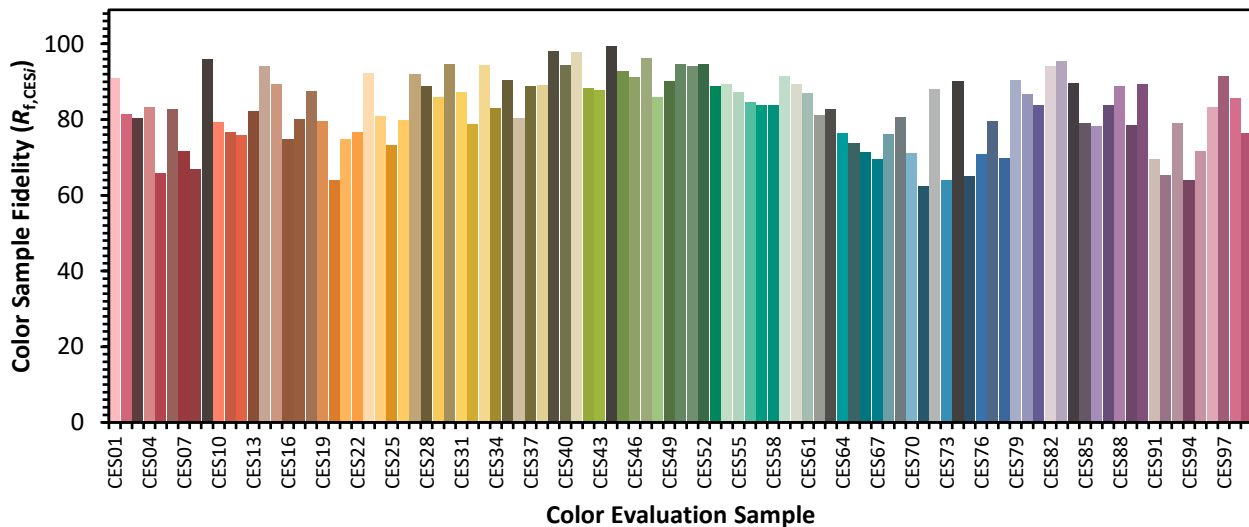


**Color Vector Graphics**

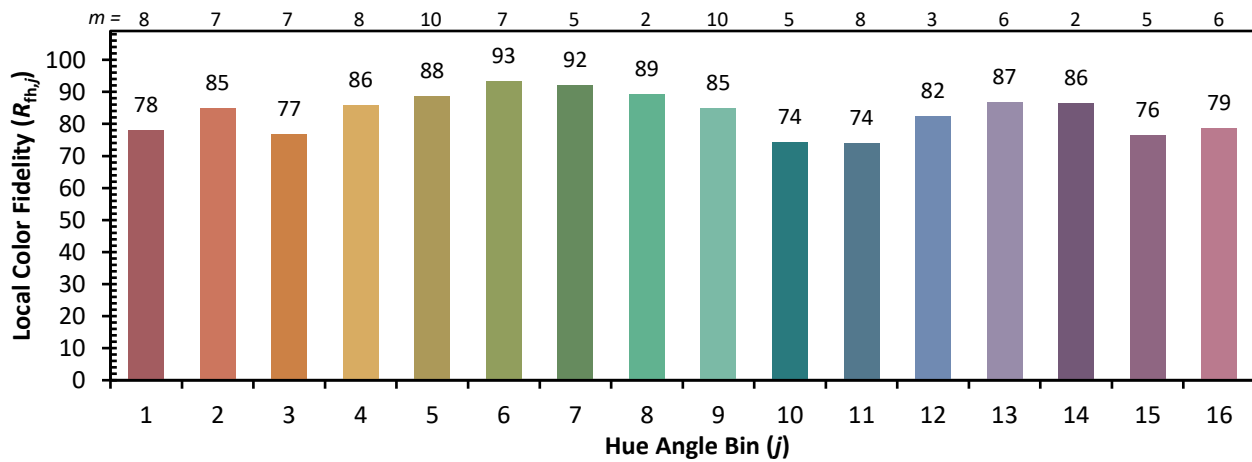
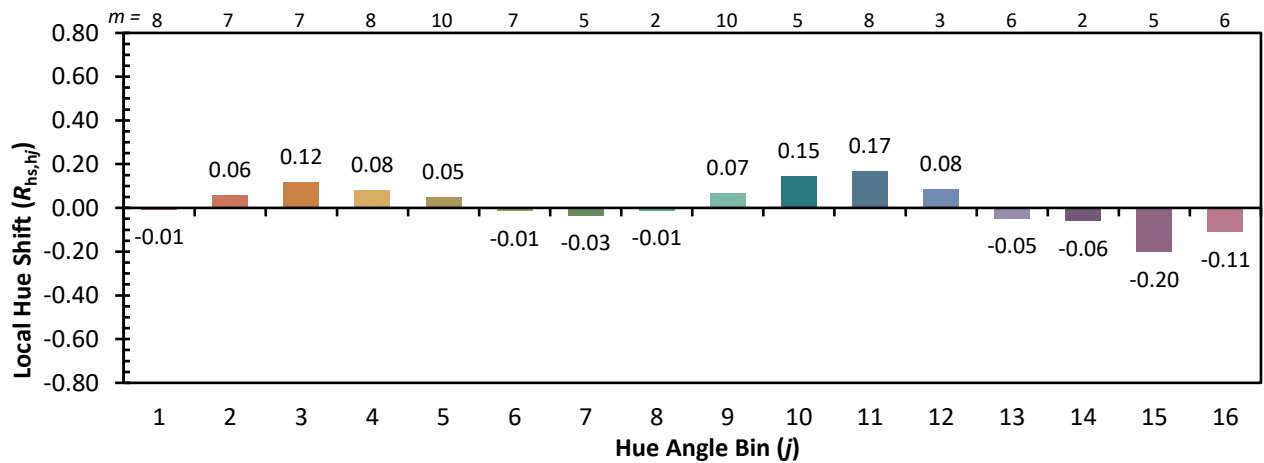
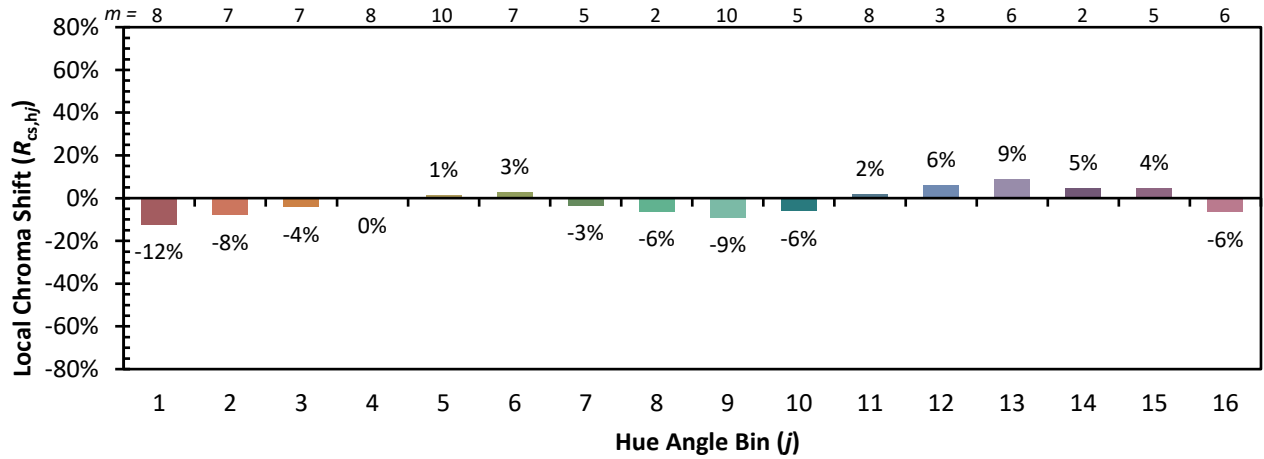


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

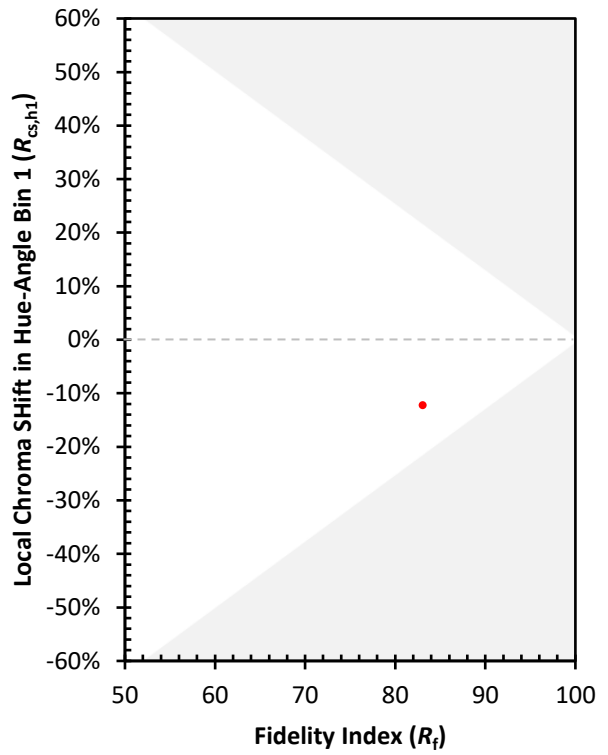
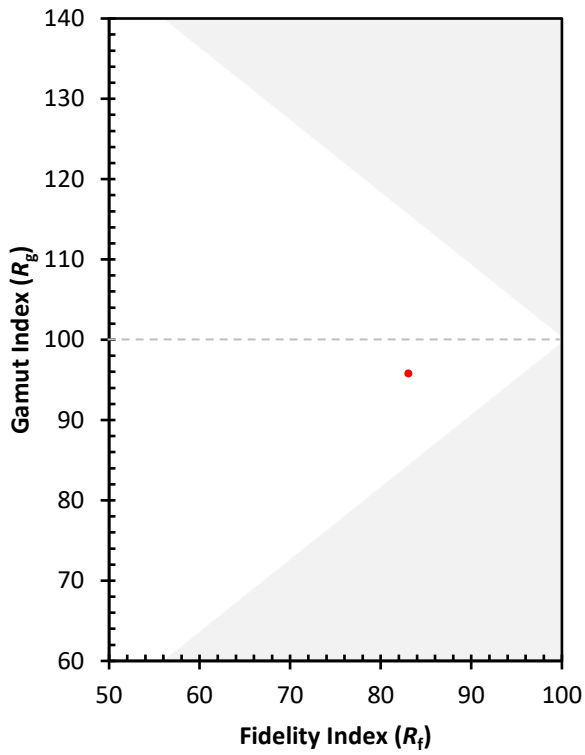
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82 = 94
CES08 = 39	CES33 = 94	CES58 = 84	CES83 = 95
CES09 = 29	CES34 = 83	CES59 = 91	CES84 = 90
CES10 = 73	CES35 = 90	CES60 = 89	CES85 = 79
CES11 = 56	CES36 = 80	CES61 = 87	CES86 = 78
CES12 = 62	CES37 = 89	CES62 = 81	CES87 = 84
CES13 = 42	CES38 = 89	CES63 = 83	CES88 = 89
CES14 = 74	CES39 = 98	CES64 = 77	CES89 = 79
CES15 = 71	CES40 = 94	CES65 = 74	CES90 = 89
CES16 = 46	CES41 = 98	CES66 = 71	CES91 = 70
CES17 = 49	CES42 = 88	CES67 = 70	CES92 = 65
CES18 = 56	CES43 = 88	CES68 = 76	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 81	CES94 = 64
CES20 = 64	CES45 = 93	CES70 = 71	CES95 = 72
CES21 = 85	CES46 = 91	CES71 = 62	CES96 = 83
CES22 = 77	CES47 = 96	CES72 = 88	CES97 = 91
CES23 = 91	CES48 = 86	CES73 = 64	CES98 = 86
CES24 = 90	CES49 = 90	CES74 = 90	CES99 = 76
CES25 = 71	CES50 = 95	CES75 = 65	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)