

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: P1449863

Luminaire Tested: **TWC150\_T3\_120W\_3000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449863  
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\_120W\_3000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 120W  
3000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19111 lumens  
Efficiency: N/A  
Efficacy: 165.6 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

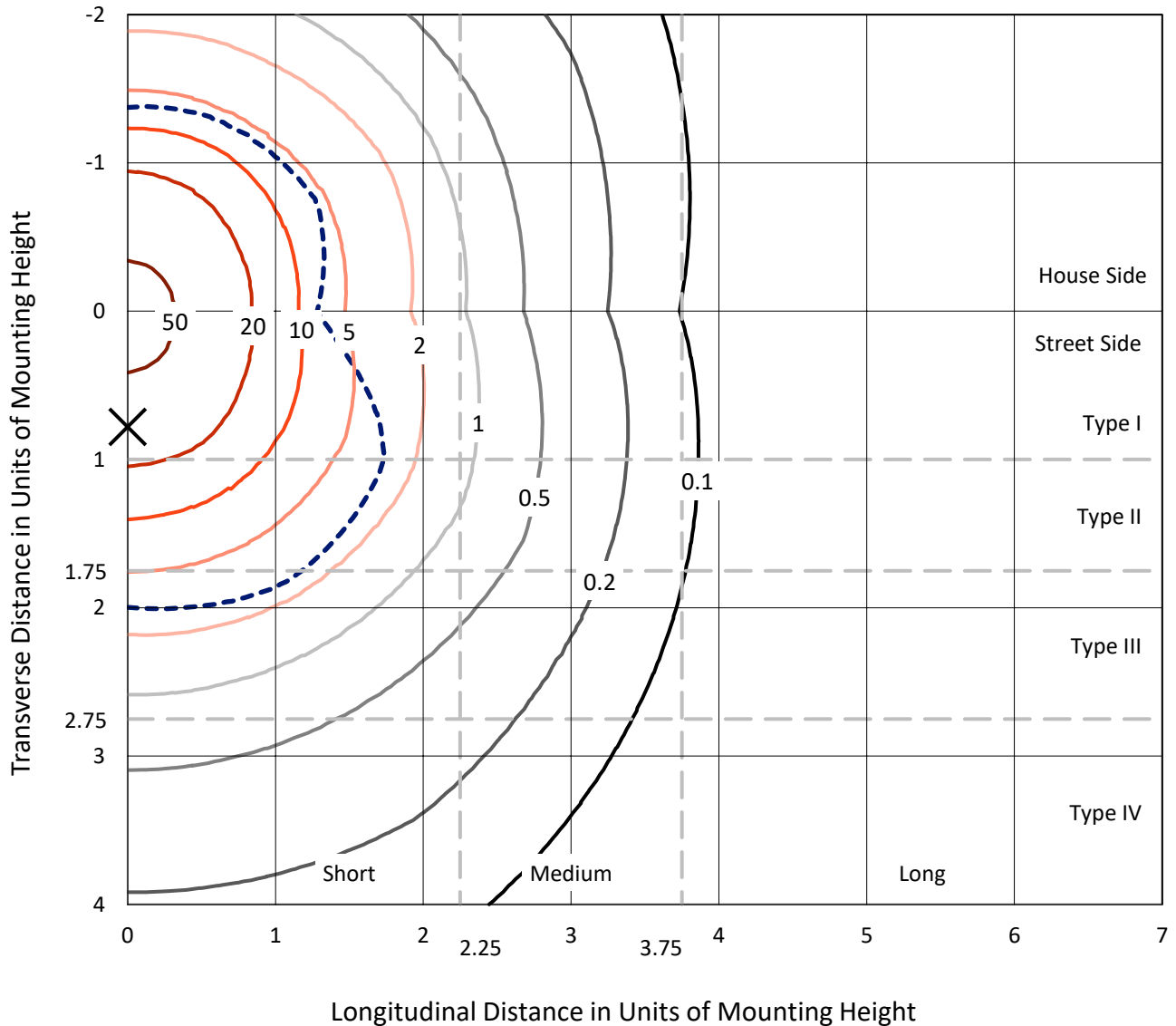
Input Watts (W): 115.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

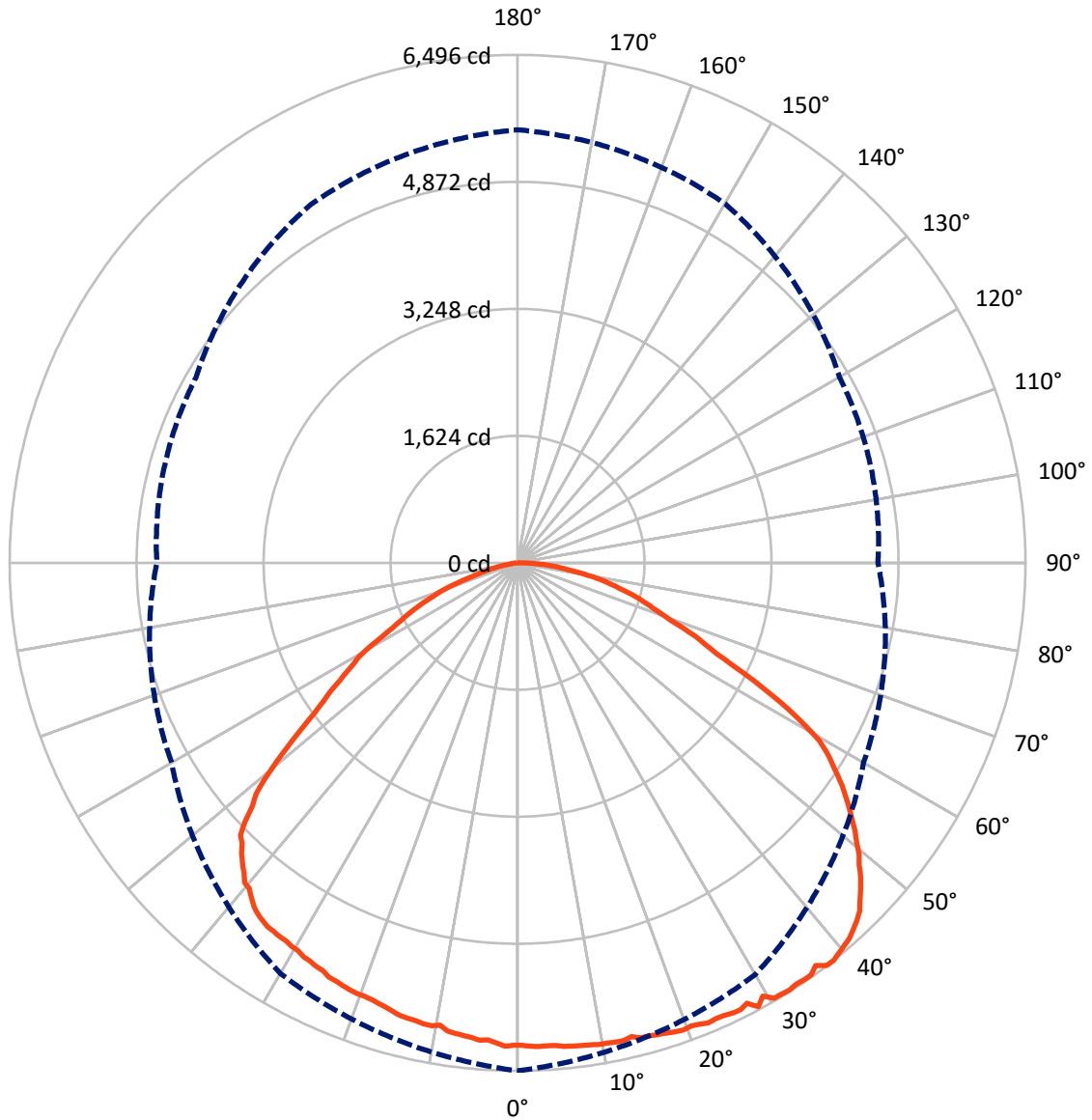
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 61.7 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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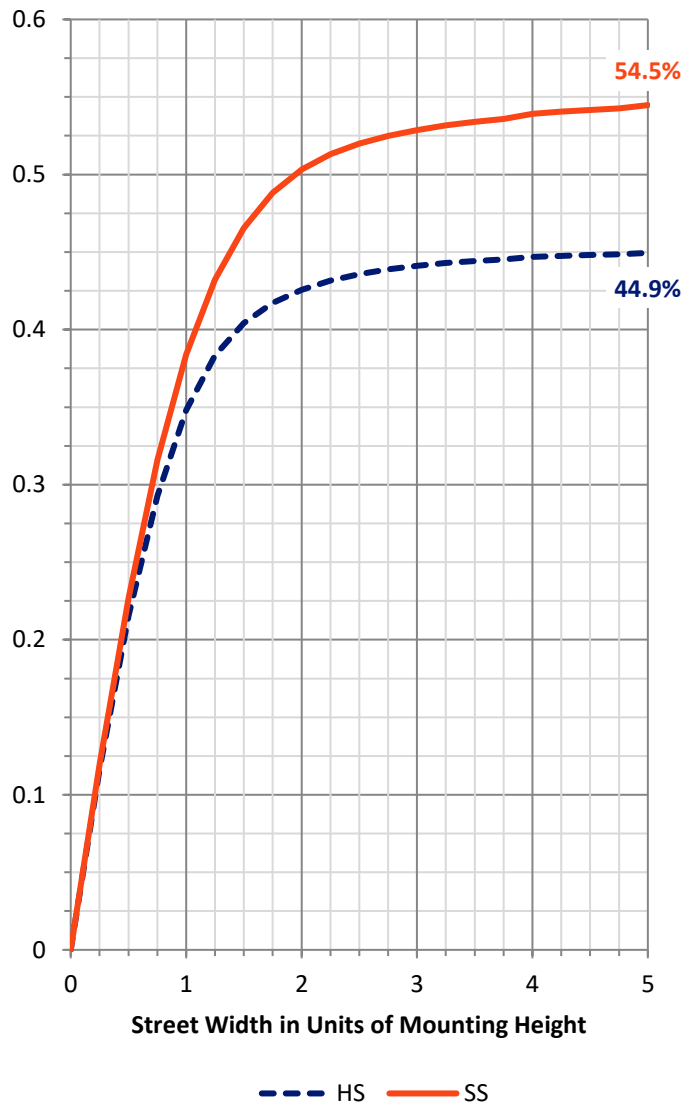
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8630.0	0.0	8630.0
	% Fixture	45.2	0.0	45.2
<b>Street Side</b>	Lumens	10481.0	0.0	10481.0
	% Fixture	54.8	0.0	54.8
<b>Total</b>	Lumens	19111.0	0.0	19111.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.6	3.1
10°-20°	1702.7	8.9
20°-30°	2670.2	14.0
30°-40°	3407.4	17.8
40°-50°	3759.5	19.7
50°-60°	3386.8	17.7
60°-70°	2307.0	12.1
70°-80°	1046.1	5.5
80°-90°	245.8	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°	19111.0	100.0
0°-180°	19111.0	100.0

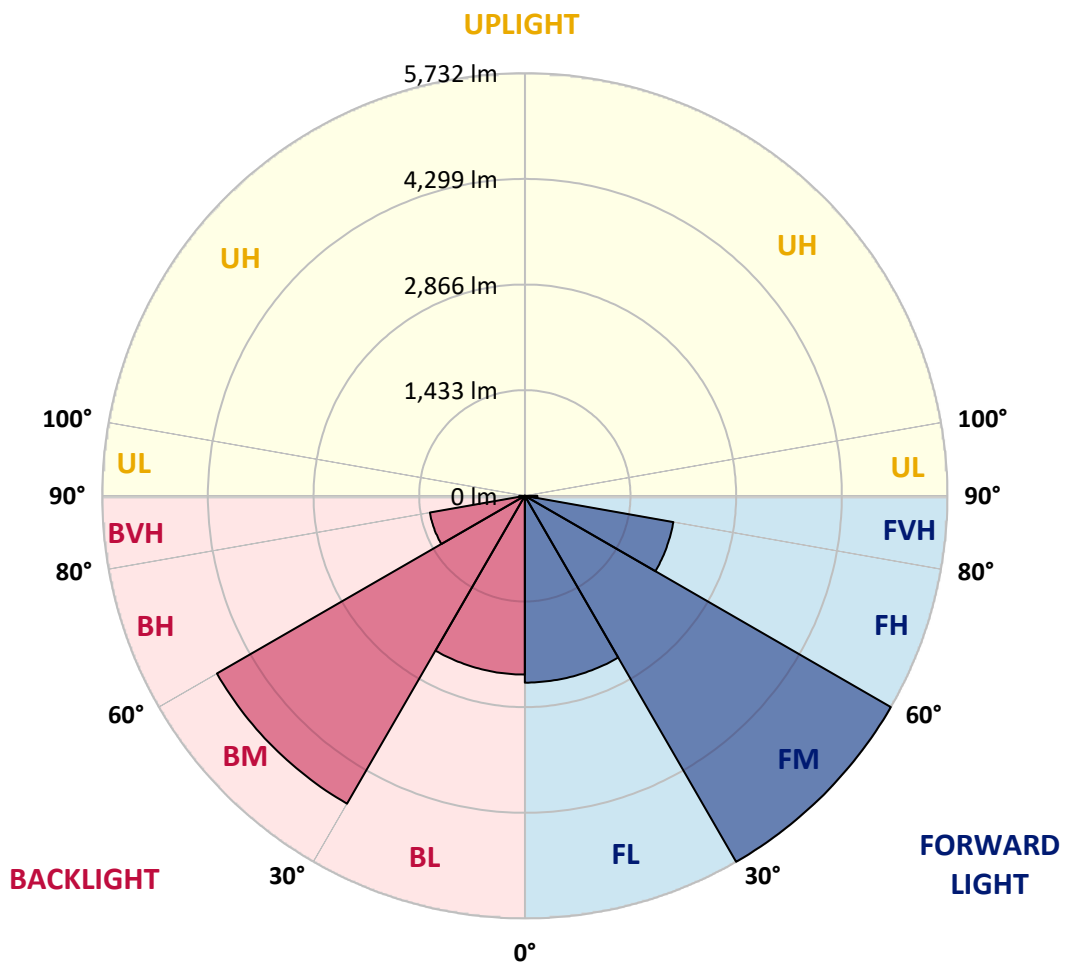


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2533.9	13.3			
FM (30°-60°)	5731.7	30.0			
FH (60°-80°)	2045.5	10.7			G2/5000
FVH (80°-90°)	169.9	0.9			G2/225
BL (0°-30°)	2424.5	12.7	B3/2500		
BM (30°-60°)	4822.0	25.2	B3/5000		
BH (60°-80°)	1307.6	6.8	B3/2500		G3/2500
BVH (80°-90°)	75.9	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°	6170.9	6170.9	6170.9	6170.9	6170.9	6170.9	6170.9	6170.9	6170.9	6170.9	6170.9
1°	6185.1	6205.4	6179.8	6161.4	6166.7	6171.3	6171.3	6150.4	6166.9	6169.2	6176.1
2°	6191.8	6200.3	6211.3	6174.3	6181.0	6155.2	6184.9	6172.9	6160.0	6080.7	6184.9
3°	6188.3	6213.0	6193.2	6157.3	6153.4	6159.1	6147.2	6139.6	6150.6	6163.5	6181.7
4°	6191.1	6189.9	6192.9	6159.8	6150.4	6126.2	6112.2	6132.4	6140.0	6172.2	6169.2
5°	6212.5	6185.8	6166.7	6195.2	6120.9	6107.4	6126.2	6122.1	6128.1	6158.4	6164.6
6°	6220.1	6188.8	6166.7	6126.9	6104.1	6089.7	6100.2	6106.2	6112.9	6189.5	6160.7
7°	6227.9	6192.9	6149.5	6108.1	6089.0	6077.0	6085.0	6109.0	6103.2	6109.9	6151.5
8°	6233.9	6200.1	6139.3	6083.7	6074.2	6065.0	6072.2	6101.6	6079.1	6103.2	6143.0
9°	6247.5	6210.6	6138.7	6062.0	6048.9	5976.9	6055.4	6063.0	6066.2	6083.4	6152.9
10°	6247.9	6205.8	6063.4	6053.8	6028.0	6022.2	5995.1	6040.7	6034.0	6060.9	6138.9
11°	6256.9	6215.3	6111.3	6039.0	6013.5	6002.9	6022.5	6014.4	6036.3	6060.0	6104.4
12°	6259.0	6213.0	6097.7	6027.3	5994.2	5992.6	6016.5	6045.0	5980.8	5999.7	6075.6
13°	6230.9	6205.8	6119.3	5982.7	5965.4	5972.3	6001.1	5984.3	5950.5	5973.9	6061.1
14°	6273.5	6217.6	6066.9	5958.5	5912.1	5967.7	5993.0	5900.8	5925.2	5951.9	6046.2
15°	6280.8	6182.4	6038.1	5915.5	5885.1	5952.3	5982.5	5929.5	5832.5	5920.1	6030.5
16°	6292.8	6278.1	6012.6	5878.5	5867.9	5924.2	5956.0	5924.7	5852.9	5900.6	6014.0
17°	6308.6	6233.4	5986.1	5863.1	5816.4	5900.6	5928.6	5894.1	5824.4	5860.3	6005.5
18°	6325.0	6201.9	5954.4	5858.9	5781.6	5856.6	5908.4	5862.1	5792.2	5807.2	5976.0
19°	6340.9	6209.7	5929.8	5772.0	5750.1	5826.9	5888.6	5853.4	5761.2	5792.2	5950.0
20°	6325.2	6209.7	5906.3	5736.3	5717.0	5797.5	5879.4	5846.3	5713.3	5760.7	5913.4
21°	6342.5	6201.9	5883.1	5693.1	5682.5	5842.6	5879.9	5804.2	5669.1	5699.3	5831.3
22°	6370.1	6118.9	5851.3	5655.6	5637.2	5770.4	5865.8	5781.6	5639.5	5654.6	5861.7
23°	6358.3	6175.2	5813.1	5606.6	5600.1	5757.7	5851.6	5738.8	5587.9	5606.3	5832.0
24°	6361.6	6176.8	5786.0	5554.1	5541.0	5740.2	5829.7	5722.7	5540.1	5562.2	5784.6
25°	6380.9	6172.7	5762.8	5510.4	5481.2	5701.6	5822.3	5691.5	5503.3	5511.1	5747.1
26°	6387.6	6152.9	5646.1	5457.3	5442.8	5672.6	5781.6	5713.1	5442.1	5465.6	5694.7
27°	6351.9	6149.5	5588.2	5413.6	5395.4	5651.0	5768.7	5639.5	5394.9	5408.0	5649.6
28°	6459.6	6142.3	5665.0	5333.0	5343.4	5600.6	5743.7	5609.8	5338.8	5345.0	5606.8
29°	6365.7	6134.7	5564.7	5309.4	5293.9	5587.0	5732.4	5576.9	5295.5	5286.3	5590.7
30°	6463.7	6147.4	5508.6	5206.7	5247.7	5558.0	5700.6	5544.7	5240.8	5228.8	5534.1
31°	6468.8	6145.5	5474.7	5142.8	5195.9	5534.8	5692.8	5514.1	5214.3	5158.0	5482.1
32°	6475.4	6144.9	5424.4	5075.6	5152.9	5486.3	5669.6	5489.5	5147.6	5092.6	5460.5
33°	6460.9	6136.4	5385.5	5010.5	5096.8	5469.0	5668.4	5468.3	5090.1	5001.6	5384.8
34°	6471.5	6115.6	5374.2	4932.5	5028.9	5437.0	5651.0	5446.7	5029.4	4923.3	5329.8
35°	6471.1	6094.0	5229.3	4855.0	4967.0	5412.6	5645.2	5408.7	4950.9	4853.2	5270.2
36°	6406.0	6095.9	5213.0	4777.3	4886.1	5378.4	5618.1	5351.4	4887.2	4769.9	5230.2
37°	6493.6	6080.7	5160.3	4688.9	4816.1	5339.5	5585.9	5326.6	4817.1	4700.2	5169.9
38°	6496.1	6078.1	5109.0	4608.4	4752.2	5303.8	5537.3	5290.7	4747.4	4612.8	5109.7
39°	6463.9	6045.0	5055.8	4522.4	4684.6	5257.6	5471.1	5257.4	4697.2	4540.3	5062.1
40°	6437.5	6030.5	5006.4	4447.2	4630.7	5203.5	5396.3	5211.1	4626.6	4453.4	5004.3
41°	6406.7	6008.9	4956.2	4361.1	4568.2	5150.2	5374.7	5173.6	4560.1	4363.2	4949.6
42°	6357.2	5976.9	4896.2	4259.2	4500.3	5081.4	5281.3	5110.4	4484.4	4271.9	4901.5
43°	6306.1	5961.5	4846.0	4174.6	4431.1	5010.1	5206.7	5046.4	4413.1	4172.5	4846.5
44°	6242.2	5942.9	4777.7	4081.4	4363.0	4940.8	5126.5	4978.3	4344.1	4083.9	4786.7



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	6141.9	5887.0	4727.3	3982.9	4278.5	4865.6	5027.1	4884.0	4285.0	3984.5	4729.0
46°	6051.7	5818.2	4672.6	3881.9	4200.8	4777.5	4966.8	4804.9	4202.4	3881.9	4675.6
47°	5951.2	5749.6	4614.9	3785.6	4126.9	4670.8	4802.8	4728.3	4112.0	3787.4	4601.1
48°	5834.5	5669.6	4552.1	3681.6	4036.5	4574.6	4595.5	4637.6	4029.6	3679.3	4540.3
49°	5744.4	5578.5	4503.1	3522.6	3946.1	4464.9	4465.6	4479.6	3956.5	3582.7	4496.6
50°	5620.1	5432.0	4447.6	3458.4	3846.1	4340.9	4246.3	4423.5	3848.6	3473.6	4443.7
51°	5514.6	5344.5	4398.6	3354.5	3755.2	4192.7	3985.0	4282.4	3753.6	3372.9	4401.8
52°	5390.8	5224.0	4358.4	3246.3	3653.3	3956.7	3724.6	4120.3	3657.0	3262.0	4352.8
53°	5279.2	5088.3	4313.7	3132.7	3557.8	3726.4	3472.7	3908.9	3592.6	3149.7	4298.3
54°	5158.0	4947.0	4266.3	3017.9	3460.1	3484.9	3232.5	3677.9	3448.3	3014.2	4239.9
55°	5035.4	4838.2	4211.8	2901.3	3358.4	3226.8	3050.3	3421.9	3339.0	2915.3	4199.9
56°	4901.0	4731.0	4146.0	2768.5	3227.2	3003.6	2910.0	3198.0	3239.4	2777.1	4145.8
57°	4766.7	4612.3	4089.9	2647.3	3115.7	2816.4	2728.5	2947.1	3127.6	2658.4	4088.7
58°	4637.4	4469.2	3996.0	2530.2	3003.6	2654.4	2578.3	2760.7	3016.1	2536.0	4051.9
59°	4476.8	4330.3	3896.4	2414.0	2890.7	2490.7	2450.4	2615.6	2903.6	2420.3	3925.4
60°	4231.4	4195.5	3783.3	2285.7	2773.8	2352.4	2335.4	2484.4	2786.7	2297.7	3811.1
61°	3967.5	4072.2	3659.0	2170.7	2656.5	2251.0	2149.3	2325.0	2669.6	2182.4	3691.0
62°	3679.1	3909.5	3510.0	2056.3	2527.7	2134.3	1959.3	2204.3	2545.4	2049.7	3552.8
63°	3369.4	3695.8	3331.2	1946.6	2374.7	1981.6	1806.1	2102.8	2413.1	1938.8	3395.2
64°	3043.7	3446.7	3153.4	1826.5	2191.4	1820.8	1684.1	1955.4	2262.9	1826.8	3209.3
65°	2800.5	3176.6	2967.3	1712.9	2039.3	1713.6	1580.8	1798.7	2099.4	1715.0	3026.0
66°	2619.2	2849.3	2774.3	1596.7	1849.8	1628.7	1476.4	1684.4	1925.9	1595.8	2845.4
67°	2466.5	2573.7	2582.9	1475.0	1672.2	1542.7	1363.0	1603.2	1712.4	1481.0	2642.3
68°	2279.0	2353.8	2368.3	1345.7	1500.8	1446.7	1259.2	1506.5	1544.5	1351.3	2436.1
69°	2088.5	2175.7	2184.9	1224.7	1367.6	1353.1	1144.9	1425.1	1389.7	1238.8	2249.3
70°	1948.9	2027.6	2030.8	1108.6	1265.0	1264.5	1048.1	1331.2	1278.1	1113.4	2074.7
71°	1824.9	1856.4	1896.7	996.1	1174.4	1175.1	931.2	1247.1	1183.1	1005.5	1957.9
72°	1725.1	1716.1	1728.3	874.6	1075.0	1085.6	808.6	1160.1	1090.4	890.5	1800.5
73°	1625.2	1608.2	1512.8	773.4	998.8	990.8	690.8	1071.8	1002.3	780.8	1599.9
74°	1514.4	1511.1	1281.8	671.3	933.5	883.8	586.1	971.5	931.7	674.0	1359.8
75°	1394.7	1406.7	1046.9	577.2	864.5	752.9	506.8	863.3	872.8	581.5	1127.2
76°	1284.6	1314.9	899.7	484.9	802.8	648.7	429.5	739.8	805.1	496.0	953.1
77°	1182.0	1215.8	801.0	405.8	744.6	562.0	361.9	641.4	750.6	408.8	840.8
78°	1081.7	1116.6	693.3	334.9	688.7	484.9	296.1	545.2	692.7	337.9	739.8
79°	969.9	1040.0	603.9	274.4	634.5	406.3	230.7	464.5	639.7	278.1	633.3
80°	851.8	965.0	502.4	214.2	573.5	345.5	170.7	401.0	584.5	221.3	544.7
81°	731.8	881.5	419.6	169.5	516.4	284.1	113.4	339.8	526.8	173.9	451.1
82°	634.2	759.4	360.9	132.3	459.6	188.9	87.4	272.4	467.0	133.7	384.9
83°	555.3	605.2	317.2	98.0	392.9	83.7	65.6	158.7	409.0	103.3	332.0
84°	470.7	471.6	275.6	74.8	317.2	45.3	50.8	67.4	341.8	75.2	293.5
85°	381.9	391.1	237.9	53.8	259.5	31.7	34.3	42.1	274.2	54.7	256.3
86°	282.7	308.9	203.8	36.6	203.6	18.9	20.0	26.9	221.1	37.5	220.6
87°	210.3	221.8	163.1	24.4	120.1	12.9	0.0	15.6	152.8	23.7	190.9
88°	109.3	145.2	93.6	0.0	0.0	10.4	0.0	0.0	0.0	0.0	127.2
89°	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	0.0	46.9



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 CATALOG NUMBER: TWC150\_T3\_120W\_3000K

**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: P1449863  
 CATALOG NUMBER: TWC150\_T3\_120W\_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: P1449863  
CATALOG NUMBER: TWC150\_T3\_120W\_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: P1449863  
CATALOG NUMBER: TWC150\_T3\_120W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	6170.9	6170.9
1°	6170.6	6185.1
2°	6179.6	6191.8
3°	6178.0	6188.3
4°	6204.4	6191.1
5°	6202.1	6212.5
6°	6198.9	6220.1
7°	6199.6	6227.9
8°	6198.5	6233.9
9°	6185.4	6247.5
10°	6190.9	6247.9
11°	6218.5	6256.9
12°	6203.3	6259.0
13°	6254.4	6230.9
14°	6199.4	6273.5
15°	6187.4	6280.8
16°	6184.0	6292.8
17°	6183.7	6308.6
18°	6196.6	6325.0
19°	6195.0	6340.9
20°	6195.7	6325.2
21°	6144.6	6342.5
22°	6164.9	6370.1
23°	6158.4	6358.3
24°	6108.1	6361.6
25°	6161.7	6380.9
26°	6185.4	6387.6
27°	6143.5	6351.9
28°	6139.8	6459.6
29°	6148.5	6365.7
30°	6127.8	6463.7
31°	6118.9	6468.8
32°	6131.1	6475.4
33°	6107.8	6460.9
34°	6099.8	6471.5
35°	6085.0	6471.1
36°	6069.9	6406.0
37°	6053.8	6493.6
38°	6064.6	6496.1
39°	6001.5	6463.9
40°	6031.2	6437.5
41°	6007.3	6406.7
42°	5979.2	6357.2
43°	5942.9	6306.1
44°	5979.0	6242.2



REPORT NUMBER: P1449863  
CATALOG NUMBER: TWC150\_T3\_120W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	5877.5	6141.9
46°	5841.4	6051.7
47°	5795.0	5951.2
48°	5719.3	5834.5
49°	5635.8	5744.4
50°	5525.8	5620.1
51°	5415.4	5514.6
52°	5293.2	5390.8
53°	5161.4	5279.2
54°	5035.4	5158.0
55°	4915.5	5035.4
56°	4790.8	4901.0
57°	4680.0	4766.7
58°	4547.9	4637.4
59°	4417.0	4476.8
60°	4279.7	4231.4
61°	4148.1	3967.5
62°	3992.4	3679.1
63°	3851.6	3369.4
64°	3613.3	3043.7
65°	3346.0	2800.5
66°	3062.8	2619.2
67°	2738.2	2466.5
68°	2519.2	2279.0
69°	2308.5	2088.5
70°	2138.2	1948.9
71°	1977.2	1824.9
72°	1804.4	1725.1
73°	1680.4	1625.2
74°	1582.7	1514.4
75°	1485.6	1394.7
76°	1386.9	1284.6
77°	1290.3	1182.0
78°	1199.4	1081.7
79°	1100.7	969.9
80°	1009.9	851.8
81°	949.1	731.8
82°	856.7	634.2
83°	734.1	555.3
84°	563.1	470.7
85°	452.9	381.9
86°	377.5	282.7
87°	290.8	210.3
88°	209.1	109.3
89°	123.5	0.0



REPORT NUMBER: P1449863  
CATALOG NUMBER: TWC150\_T3\_120W\_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: P1449863  
CATALOG NUMBER: TWC150\_T3\_120W\_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: P1449863  
CATALOG NUMBER: TWC150\_T3\_120W\_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

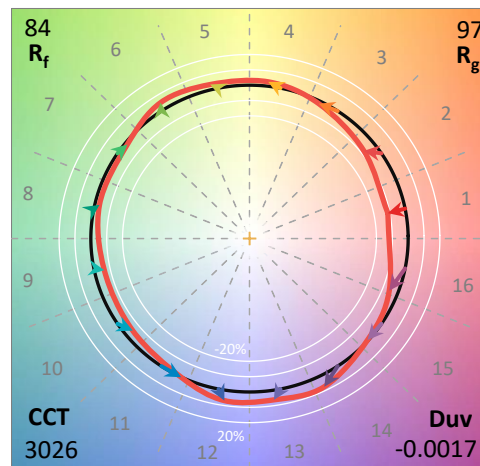
**Test Information**

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**

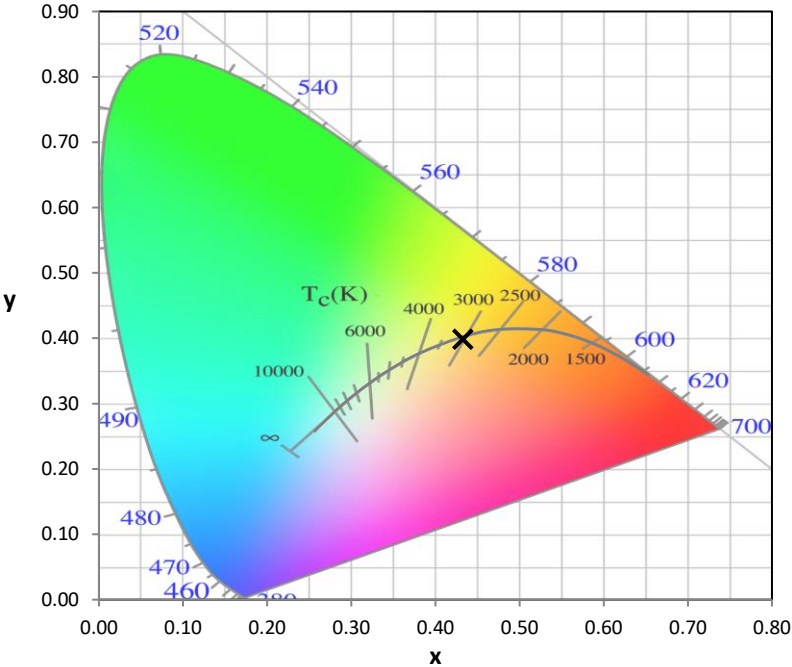
Stabilization Time: 64M  
 Operation Time: 2H 4M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-1

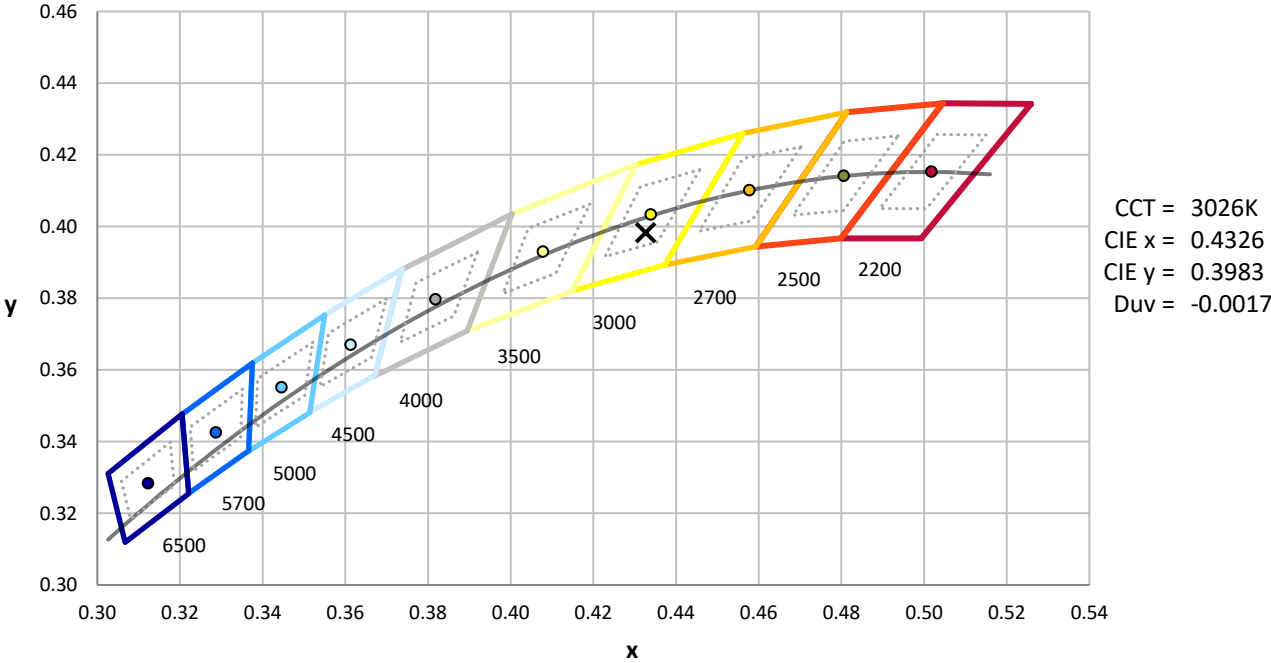
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



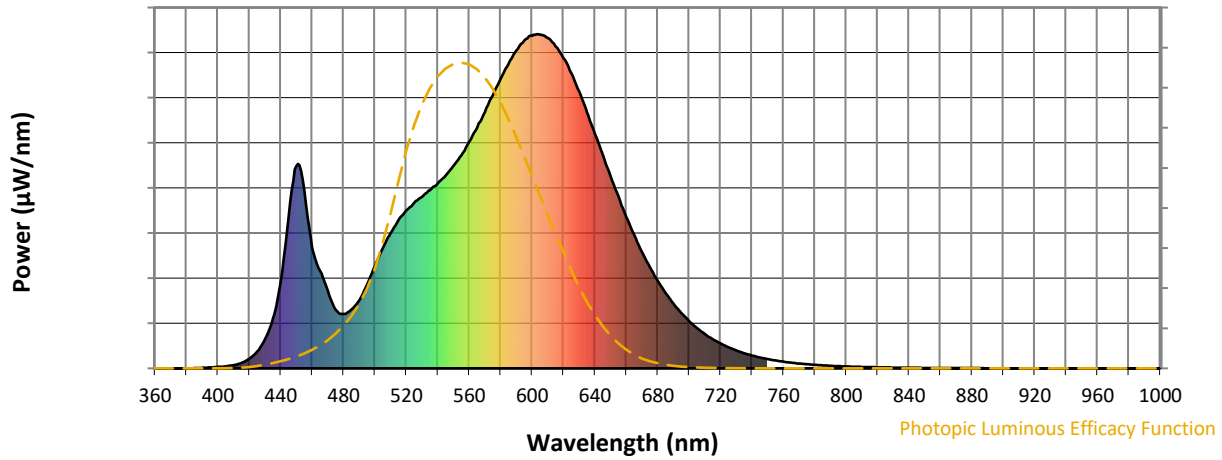
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

**Photopic Flux vs. Wavelength**

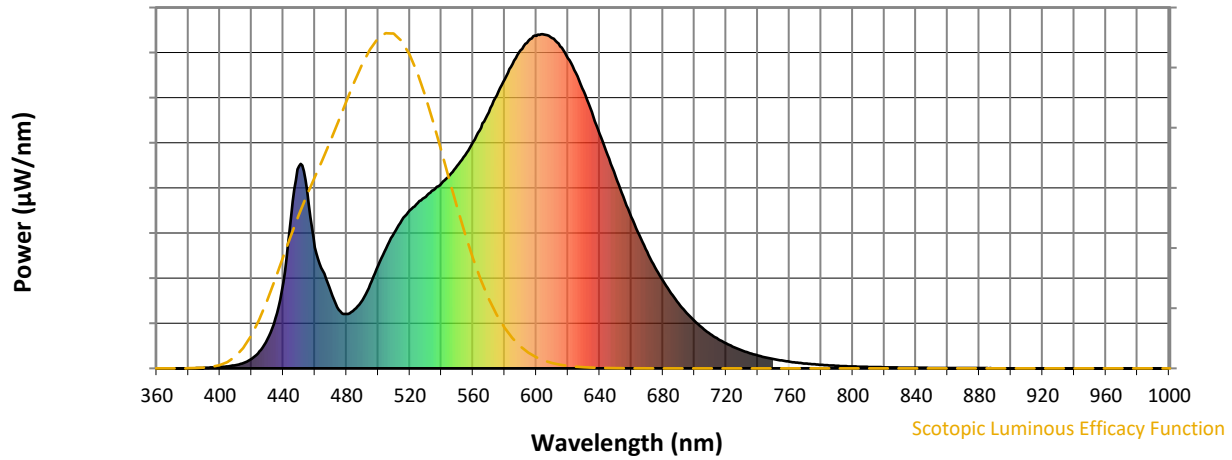


**Photopic Lumens: NR**

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



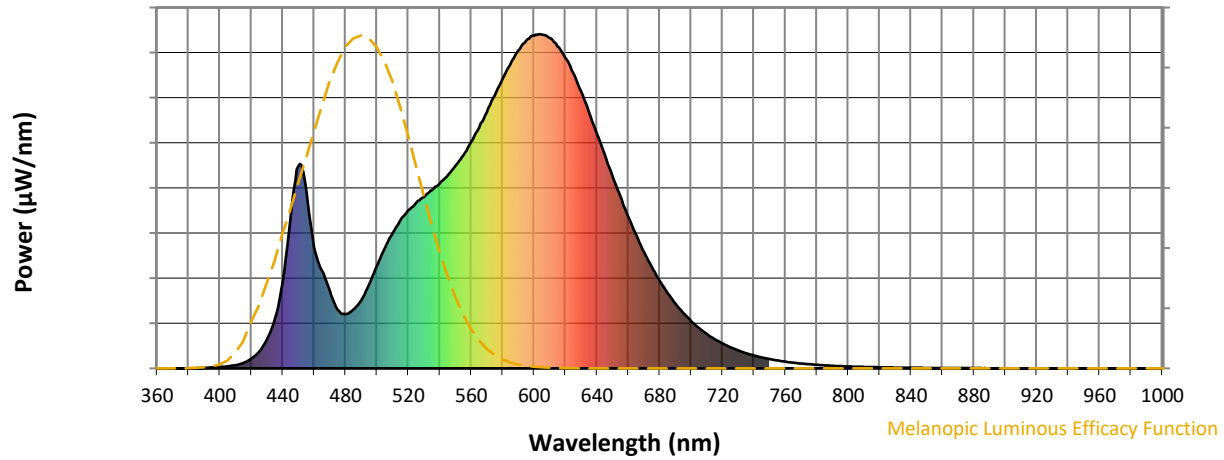
**Scotopic Lumens: NR**

**S/P: 1.35**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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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**Melanopic Flux vs. Wavelength**



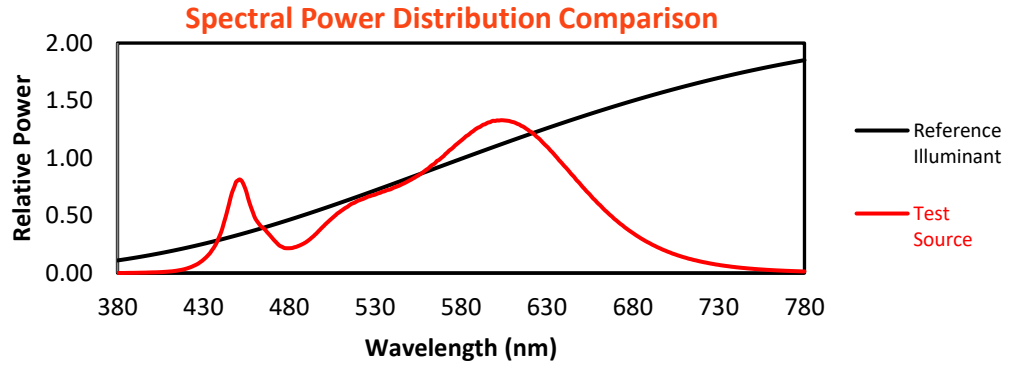
**Melanopic Lumens: NR**

**M/P: 2.61**

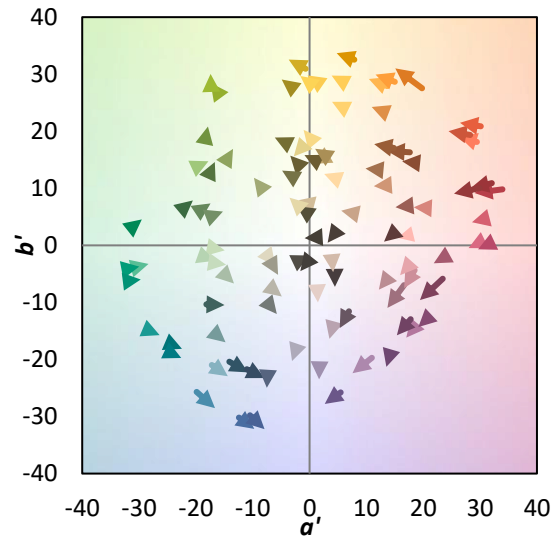
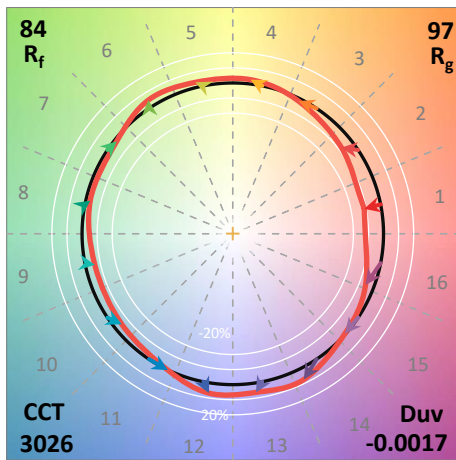
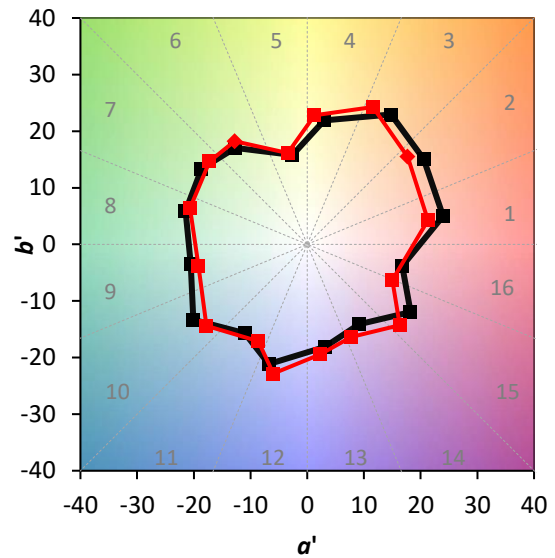
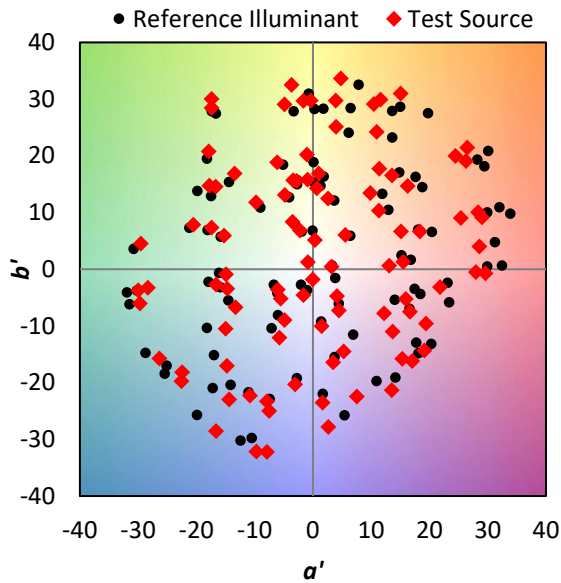
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	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**

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

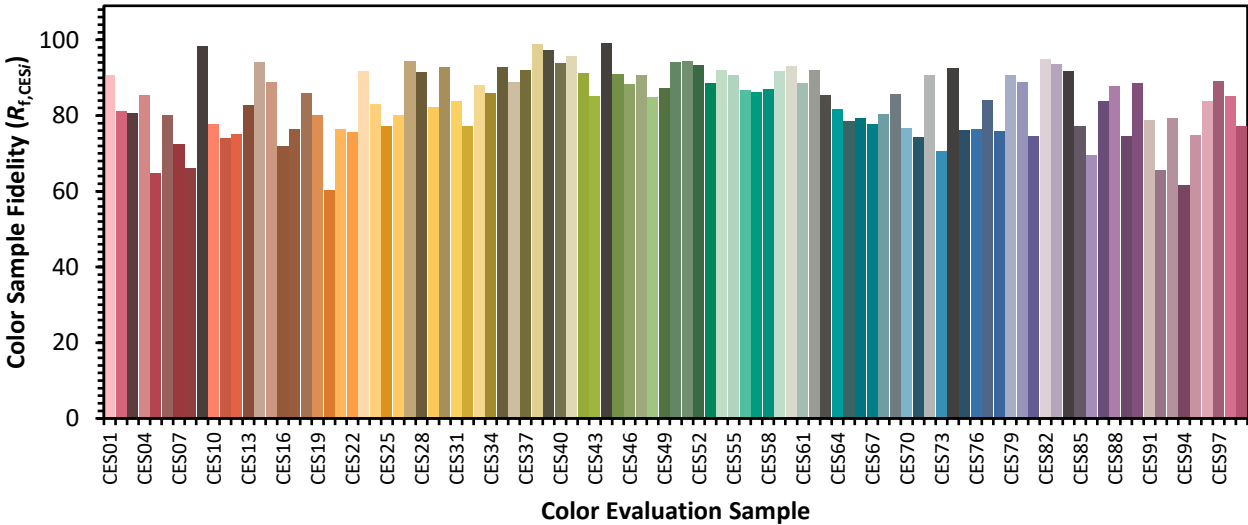


**Color Vector Graphics**

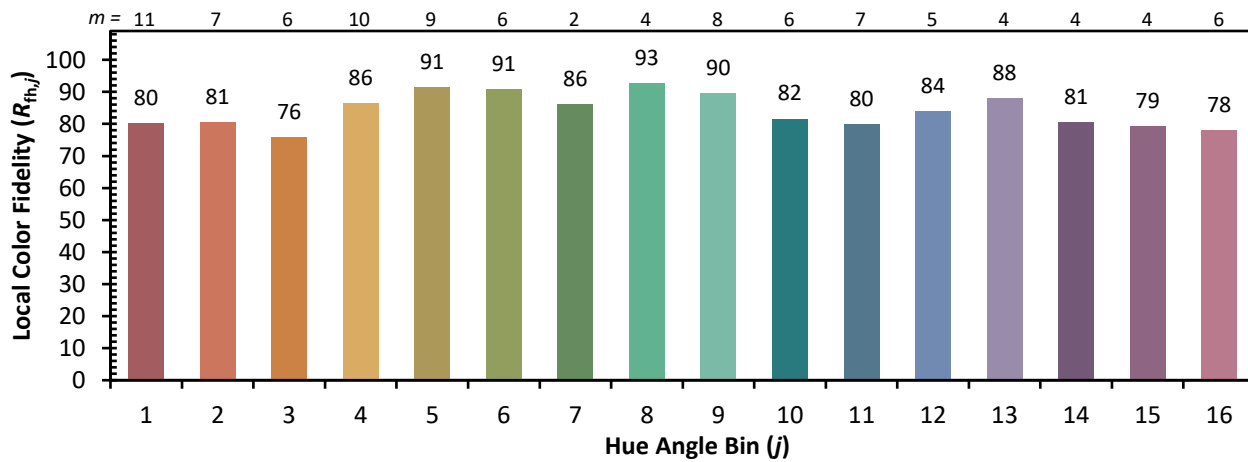
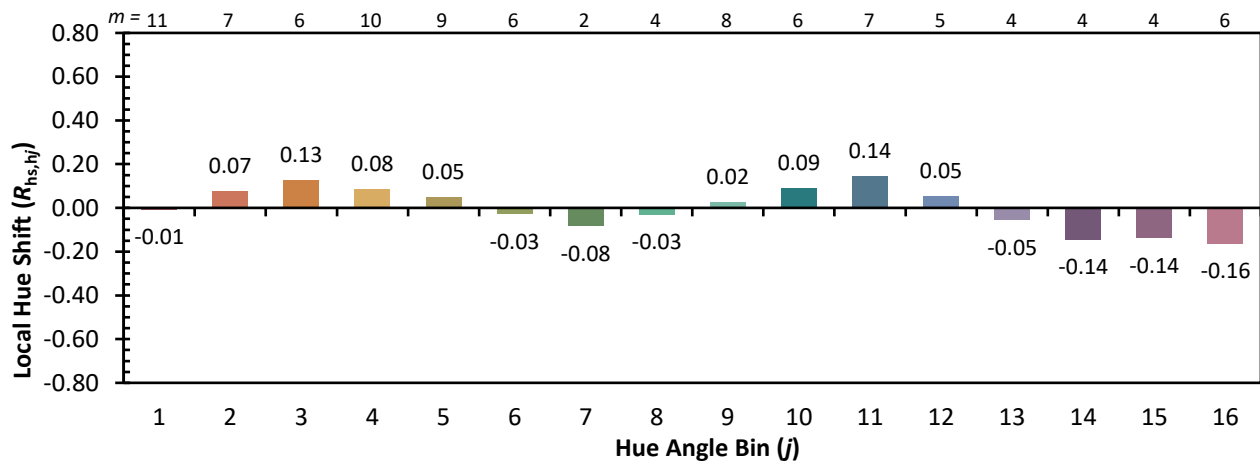
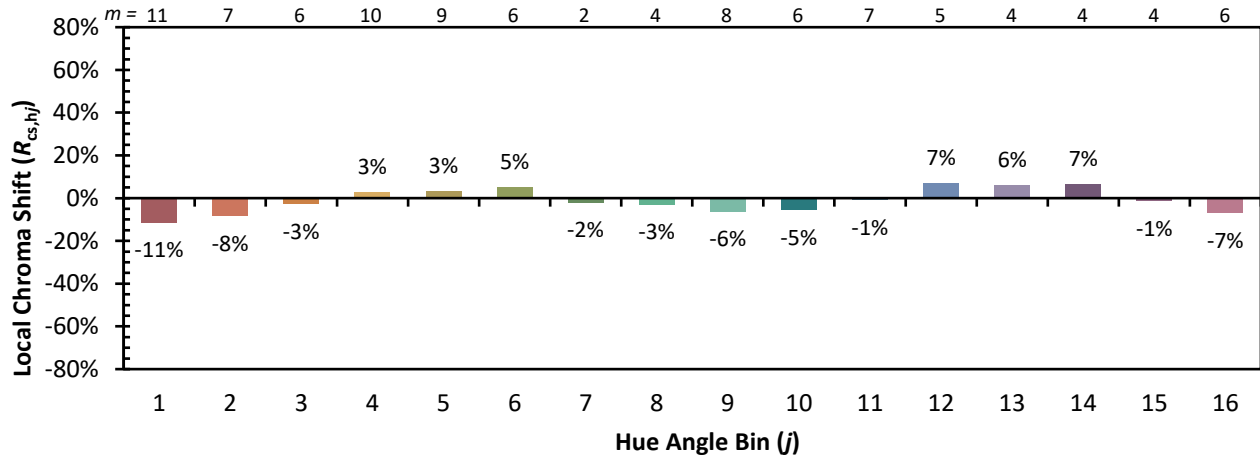


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

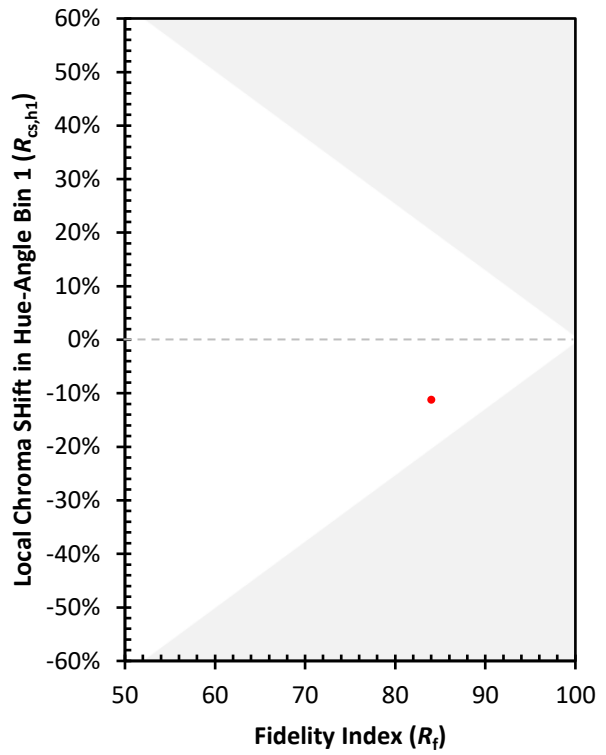
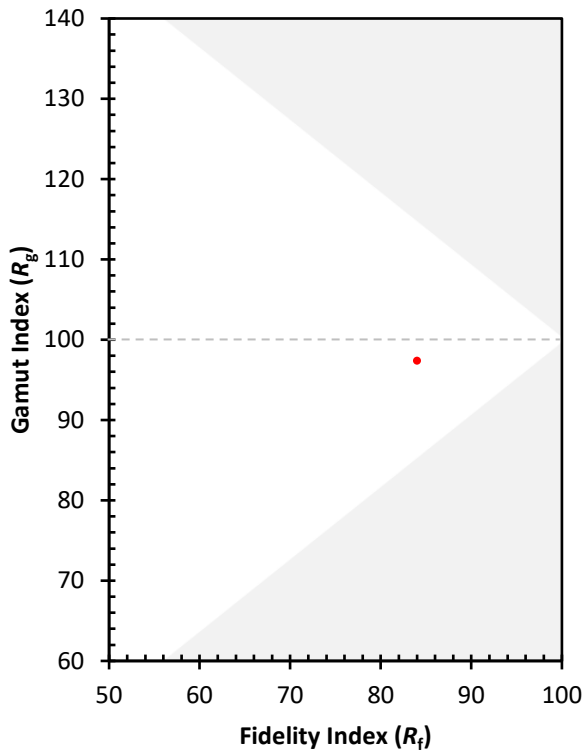
CES01 = 86	CES26 = 80	CES51 = 94	CES76 = 76
CES02 = 63	CES27 = 94	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 92	CES53 = 88	CES78 = 76
CES04 = 70	CES29 = 82	CES54 = 92	CES79 = 91
CES05 = 50	CES30 = 93	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 75
CES07 = 42	CES32 = 77	CES57 = 86	CES82 = 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)