

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: P1449866

Luminaire Tested: **TWC150_T3_150W_3000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449866
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_150W_3000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 150W
3000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23558 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 0.42' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

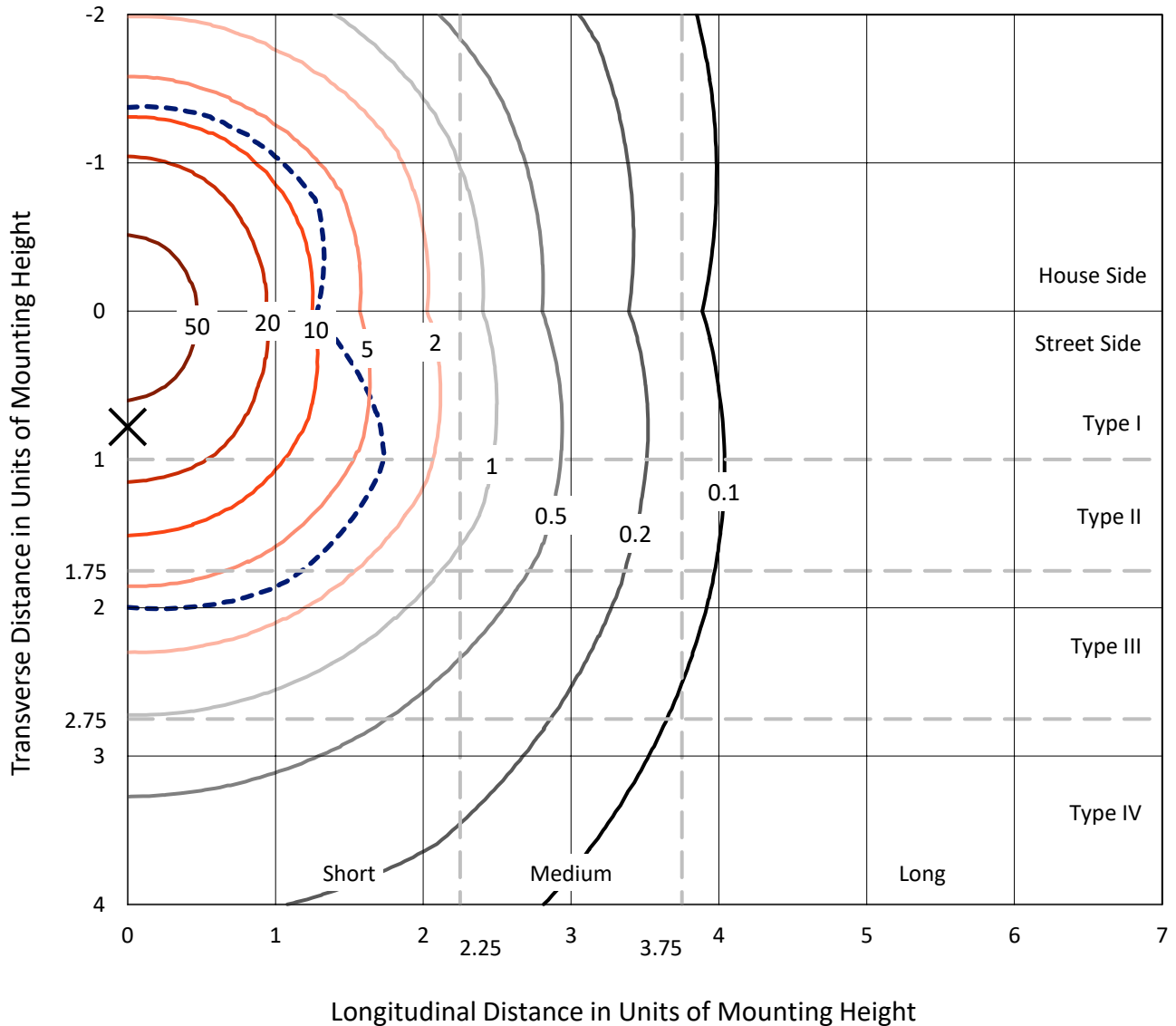
Input Watts (W): 145.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P1449866
 CATALOG NUMBER: TWC150_T3_150W_3000K

Iso-Footcandle Lines of Horizontal Illumination

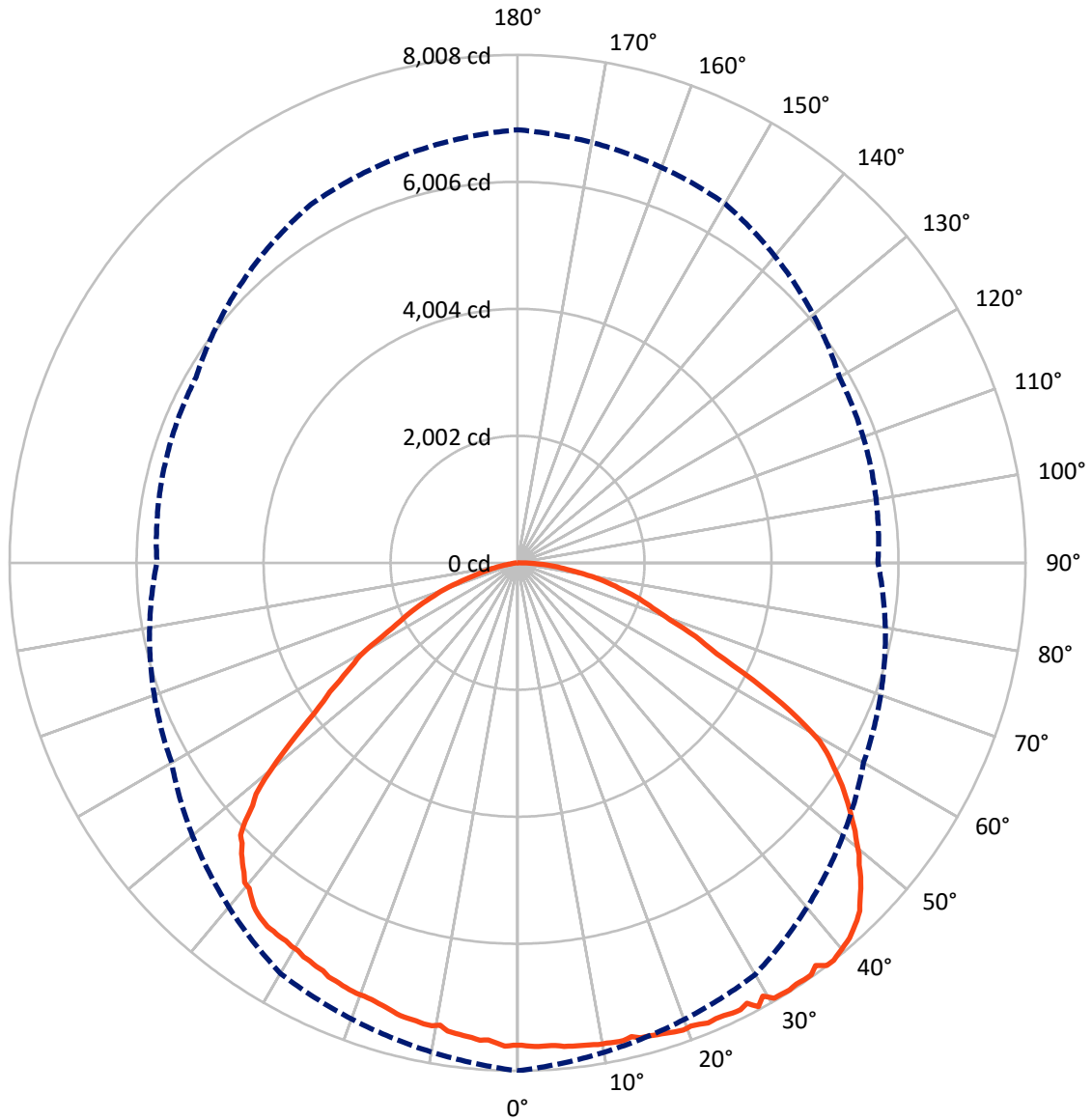
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 76.1 fc
 Type III - Short - N/A

REPORT NUMBER: P1449866
CATALOG NUMBER: TWC150_T3_150W_3000K

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1449866
 CATALOG NUMBER: TWC150_T3_150W_3000K

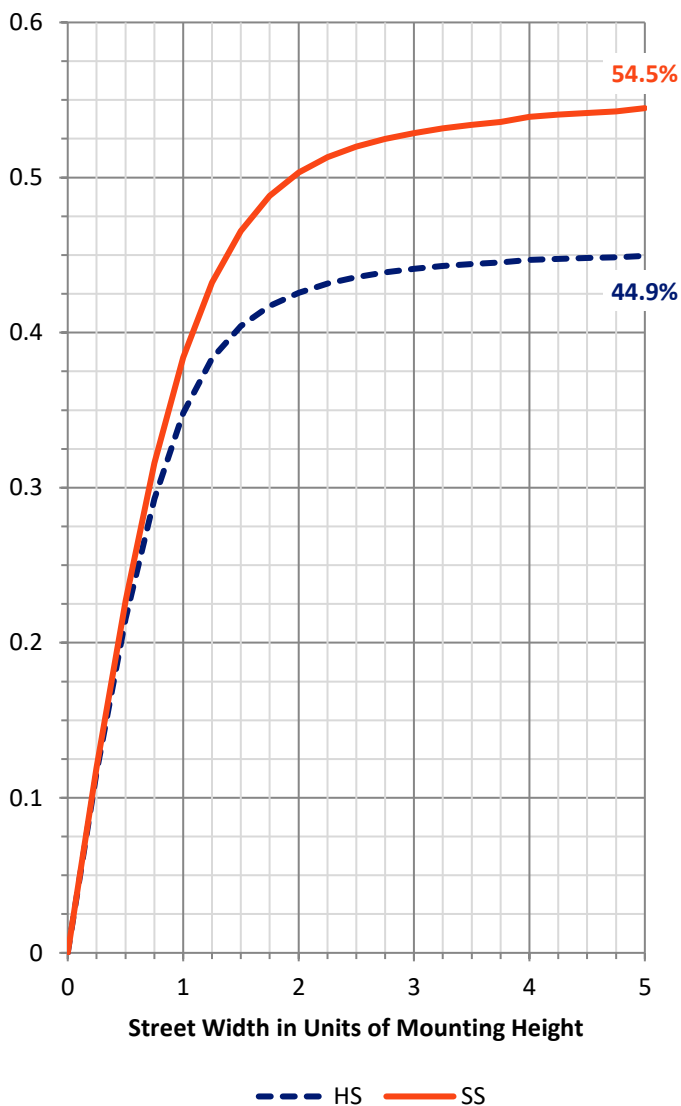
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10638.2	0.0	10638.2
	% Fixture	45.2	0.0	45.2
Street Side	Lumens	12919.8	0.0	12919.8
	% Fixture	54.8	0.0	54.8
Total	Lumens	23558.0	0.0	23558.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.8	3.1
10°-20°	2098.8	8.9
20°-30°	3291.6	14.0
30°-40°	4200.3	17.8
40°-50°	4634.3	19.7
50°-60°	4174.9	17.7
60°-70°	2843.8	12.1
70°-80°	1289.5	5.5
80°-90°	303.0	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°	23558.0	100.0
0°-180°	23558.0	100.0

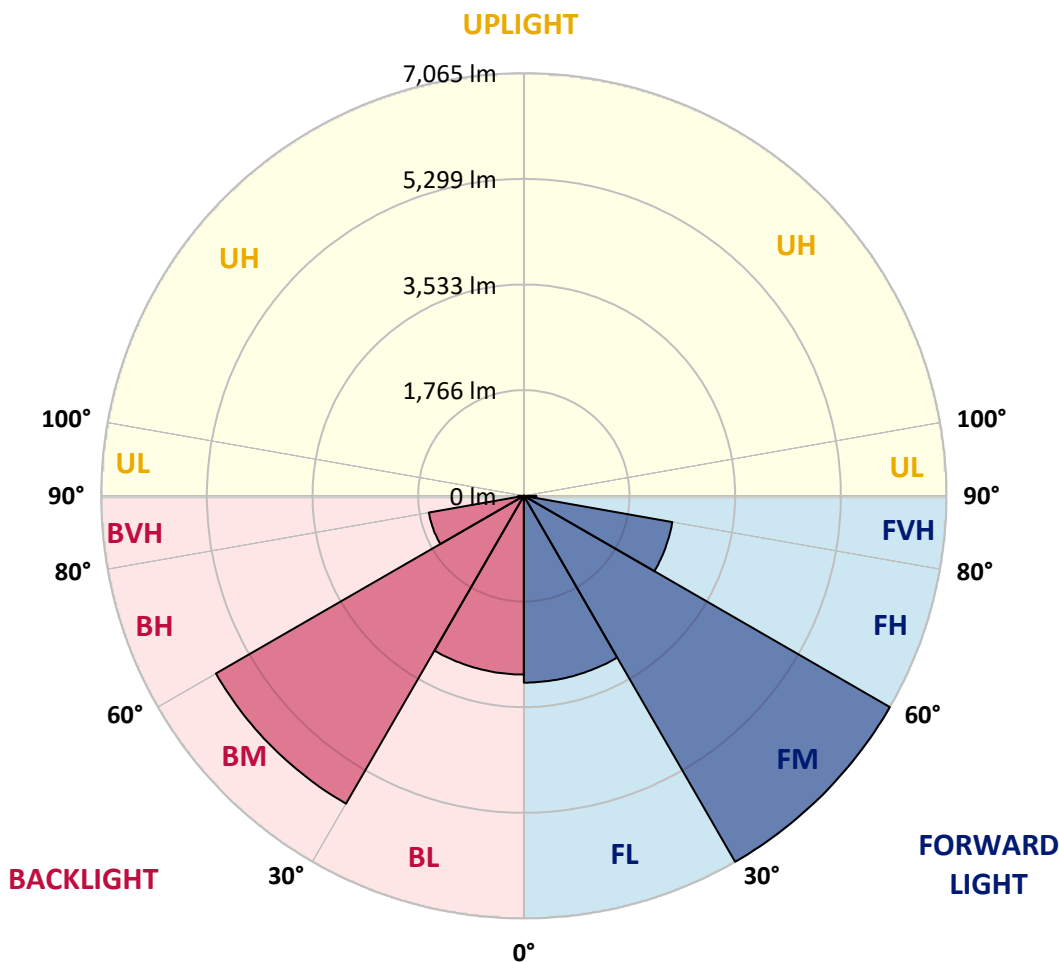


REPORT NUMBER: P1449866
 CATALOG NUMBER: TWC150_T3_150W_3000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3123.5	13.3			
FM	(30°-60°)	7065.4	30.0			
FH	(60°-80°)	2521.5	10.7			G2/5000
FVH	(80°-90°)	209.4	0.9			G2/225
BL	(0°-30°)	2988.7	12.7	B4/5000		
BM	(30°-60°)	5944.1	25.2	B4/8500		
BH	(60°-80°)	1611.8	6.8	B3/2500		G3/2500
BVH	(80°-90°)	93.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type III Short





REPORT NUMBER: P1449866

CATALOG NUMBER: TWC150_T3_150W_3000K

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	7606.9	7606.9	7606.9	7606.9	7606.9	7606.9	7606.9	7606.9	7606.9	7606.9	7606.9
1°	7624.4	7649.3	7617.8	7595.1	7601.7	7607.3	7607.3	7581.5	7601.9	7604.8	7613.3
2°	7632.6	7643.1	7656.7	7611.0	7619.2	7587.5	7624.1	7609.3	7593.4	7495.6	7624.1
3°	7628.3	7658.7	7634.3	7590.0	7585.2	7592.3	7577.6	7568.2	7581.8	7597.7	7620.1
4°	7631.7	7630.3	7634.0	7593.2	7581.5	7551.8	7534.5	7559.4	7568.8	7608.5	7604.8
5°	7658.1	7625.2	7601.7	7636.8	7545.2	7528.5	7551.8	7546.7	7554.0	7591.5	7599.1
6°	7667.5	7628.9	7601.7	7552.6	7524.5	7506.7	7519.7	7527.1	7535.3	7629.7	7594.3
7°	7677.1	7634.0	7580.4	7529.4	7505.8	7491.1	7501.0	7530.5	7523.4	7531.6	7583.0
8°	7684.5	7642.8	7567.9	7499.3	7487.7	7476.3	7485.1	7521.4	7493.6	7523.4	7572.5
9°	7701.2	7655.8	7567.1	7472.6	7456.5	7367.7	7464.4	7473.8	7477.7	7499.0	7584.7
10°	7701.8	7649.9	7474.3	7462.4	7430.7	7423.6	7390.1	7446.3	7438.1	7471.2	7567.4
11°	7712.8	7661.5	7533.3	7444.3	7412.8	7399.8	7423.9	7413.9	7440.9	7470.1	7524.8
12°	7715.4	7658.7	7516.6	7429.8	7389.0	7387.0	7416.5	7451.7	7372.5	7395.8	7489.4
13°	7680.8	7649.9	7543.2	7374.8	7353.5	7362.1	7397.5	7376.8	7335.1	7364.0	7471.5
14°	7733.2	7664.3	7478.6	7345.0	7287.8	7356.4	7387.6	7273.9	7303.9	7336.8	7453.1
15°	7742.3	7621.0	7443.2	7292.0	7254.6	7337.4	7374.5	7309.3	7189.6	7297.7	7433.8
16°	7757.1	7738.9	7411.7	7246.4	7233.3	7302.8	7341.9	7303.4	7214.9	7273.6	7413.4
17°	7776.6	7683.9	7379.1	7227.4	7169.8	7273.6	7308.2	7265.6	7179.7	7224.0	7402.9
18°	7796.8	7645.0	7339.9	7222.3	7127.0	7219.4	7283.2	7226.2	7140.0	7158.5	7366.6
19°	7816.3	7654.7	7309.6	7115.1	7088.1	7182.8	7258.8	7215.4	7101.7	7140.0	7334.5
20°	7797.0	7654.7	7280.7	7071.1	7047.3	7146.5	7247.5	7206.7	7042.7	7101.2	7289.5
21°	7818.3	7645.0	7252.0	7017.8	7004.7	7202.1	7248.1	7154.8	6988.3	7025.5	7188.2
22°	7852.3	7542.7	7212.9	6971.6	6948.9	7113.1	7230.8	7127.0	6951.7	6970.4	7225.6
23°	7837.9	7612.2	7165.8	6911.2	6903.2	7097.5	7213.2	7074.2	6888.2	6910.9	7189.1
24°	7841.9	7614.1	7132.4	6846.5	6830.4	7075.9	7186.2	7054.4	6829.2	6856.4	7130.7
25°	7865.7	7609.0	7103.7	6792.6	6756.6	7028.3	7177.2	7015.8	6783.8	6793.5	7084.4
26°	7873.9	7584.7	6960.0	6727.1	6709.3	6992.6	7127.0	7042.5	6708.4	6737.3	7019.8
27°	7829.9	7580.4	6888.5	6673.3	6650.9	6965.9	7111.1	6951.7	6650.3	6666.5	6964.2
28°	7962.6	7571.6	6983.2	6574.0	6586.8	6903.8	7080.2	6915.1	6581.1	6588.8	6911.5
29°	7847.0	7562.3	6859.6	6544.8	6525.8	6887.1	7066.3	6874.6	6527.8	6516.4	6891.6
30°	7967.8	7577.9	6790.4	6418.3	6468.8	6851.3	7027.2	6834.9	6460.3	6445.5	6821.8
31°	7974.0	7575.6	6748.7	6339.5	6405.0	6822.7	7017.5	6797.2	6427.7	6358.2	6757.8
32°	7982.2	7574.7	6686.6	6256.7	6352.0	6762.9	6988.9	6766.8	6345.5	6277.7	6731.1
33°	7964.4	7564.2	6638.7	6176.4	6282.8	6741.6	6987.5	6740.7	6274.6	6165.4	6637.8
34°	7977.4	7538.7	6624.8	6080.3	6199.1	6702.2	6965.9	6714.1	6199.7	6069.0	6570.0
35°	7976.8	7512.1	6446.1	5984.8	6122.8	6672.1	6958.8	6667.3	6103.0	5982.5	6496.6
36°	7896.6	7514.3	6426.0	5888.9	6023.0	6629.9	6925.4	6596.7	6024.4	5879.8	6447.3
37°	8004.6	7495.6	6361.0	5780.0	5936.8	6582.0	6885.6	6566.1	5938.0	5793.9	6373.0
38°	8007.7	7492.5	6297.8	5680.8	5858.0	6538.0	6825.8	6521.8	5852.0	5686.1	6298.7
39°	7968.0	7451.7	6232.3	5574.7	5774.6	6481.0	6744.2	6480.7	5790.2	5596.8	6240.0
40°	7935.4	7433.8	6171.3	5482.0	5708.3	6414.4	6652.0	6423.7	5703.2	5489.6	6168.8
41°	7897.4	7407.1	6109.5	5375.9	5631.1	6348.6	6625.3	6377.5	5621.2	5378.5	6101.3
42°	7836.5	7367.7	6035.5	5250.3	5547.5	6263.8	6510.2	6299.5	5527.9	5265.9	6042.0
43°	7773.5	7348.7	5973.7	5146.0	5462.1	6175.9	6418.3	6220.7	5440.0	5143.4	5974.3
44°	7694.7	7325.8	5889.5	5031.1	5378.2	6090.5	6319.4	6136.7	5354.9	5034.2	5900.5



REPORT NUMBER: P1449866

CATALOG NUMBER: TWC150_T3_150W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	7571.0	7256.8	5827.4	4909.7	5274.1	5997.8	6196.9	6020.5	5282.1	4911.7	5829.4
46°	7459.9	7172.1	5759.9	4785.3	5178.3	5889.2	6122.6	5922.9	5180.3	4785.3	5763.6
47°	7336.0	7087.6	5688.7	4666.4	5087.3	5757.6	5920.4	5828.5	5068.8	4668.7	5671.7
48°	7192.2	6988.9	5611.3	4538.3	4975.8	5639.1	5664.9	5716.8	4967.3	4535.4	5596.8
49°	7081.0	6876.6	5550.9	4342.3	4864.4	5503.8	5504.7	5522.0	4877.1	4416.3	5542.9
50°	6927.9	6695.9	5482.5	4263.2	4741.0	5351.0	5234.4	5452.8	4744.1	4281.9	5477.7
51°	6797.7	6588.2	5422.1	4135.0	4629.0	5168.4	4912.3	5278.9	4627.0	4157.7	5426.1
52°	6645.2	6439.6	5372.5	4001.7	4503.4	4877.4	4591.3	5079.0	4507.9	4021.0	5365.7
53°	6507.7	6272.3	5317.5	3861.7	4385.7	4593.6	4280.8	4818.4	4428.5	3882.6	5298.5
54°	6358.2	6098.2	5259.1	3720.2	4265.2	4295.8	3984.7	4533.7	4250.7	3715.6	5226.5
55°	6207.1	5964.1	5191.9	3576.4	4139.8	3977.6	3760.1	4218.1	4116.0	3593.7	5177.1
56°	6041.5	5831.9	5110.8	3412.8	3978.2	3702.6	3587.2	3942.2	3993.2	3423.3	5110.5
57°	5875.9	5685.6	5041.6	3263.3	3840.7	3471.8	3363.4	3632.8	3855.4	3276.9	5040.2
58°	5716.5	5509.2	4925.9	3119.0	3702.6	3272.1	3178.3	3403.1	3717.9	3126.1	4994.8
59°	5518.6	5337.9	4803.1	2975.8	3563.3	3070.2	3020.6	3224.2	3579.2	2983.4	4838.8
60°	5216.0	5171.8	4663.6	2817.6	3419.3	2899.8	2878.8	3062.6	3435.2	2832.3	4697.9
61°	4890.7	5019.8	4510.5	2675.8	3274.7	2774.7	2649.4	2866.0	3290.8	2690.2	4549.9
62°	4535.1	4819.3	4326.7	2534.8	3115.9	2631.0	2415.2	2717.2	3137.7	2526.6	4379.5
63°	4153.5	4555.8	4106.4	2399.6	2927.3	2442.7	2226.3	2592.1	2974.6	2389.9	4185.2
64°	3751.9	4248.7	3887.2	2251.5	2701.3	2244.5	2076.0	2410.3	2789.5	2251.8	3956.1
65°	3452.2	3915.8	3657.8	2111.5	2513.9	2112.3	1948.7	2217.2	2587.9	2114.0	3730.1
66°	3228.7	3512.3	3419.9	1968.3	2280.2	2007.7	1820.0	2076.3	2374.1	1967.1	3507.5
67°	3040.4	3172.6	3183.9	1818.3	2061.3	1901.6	1680.2	1976.2	2110.9	1825.6	3257.1
68°	2809.3	2901.5	2919.4	1658.9	1850.0	1783.4	1552.3	1857.1	1903.9	1665.7	3003.0
69°	2574.5	2682.0	2693.3	1509.7	1685.8	1668.0	1411.3	1756.7	1713.1	1527.0	2772.8
70°	2402.4	2499.4	2503.4	1366.5	1559.3	1558.8	1291.9	1641.0	1575.5	1372.5	2557.5
71°	2249.6	2288.4	2338.0	1227.9	1447.6	1448.5	1147.9	1537.2	1458.4	1239.5	2413.5
72°	2126.5	2115.4	2130.5	1078.1	1325.1	1338.2	996.8	1430.0	1344.1	1097.7	2219.5
73°	2003.4	1982.4	1864.8	953.4	1231.3	1221.3	851.6	1321.2	1235.5	962.4	1972.2
74°	1866.7	1862.8	1580.1	827.5	1150.7	1089.5	722.5	1197.5	1148.5	830.9	1676.2
75°	1719.3	1734.0	1290.5	711.5	1065.7	928.1	624.7	1064.2	1075.9	716.9	1389.5
76°	1583.5	1620.9	1109.0	597.8	989.7	799.7	529.4	912.0	992.5	611.4	1174.8
77°	1457.0	1498.7	987.4	500.2	917.9	692.8	446.1	790.6	925.3	503.9	1036.4
78°	1333.3	1376.4	854.7	412.9	849.0	597.8	365.0	672.1	853.8	416.6	912.0
79°	1195.5	1282.0	744.4	338.3	782.1	500.8	284.4	572.5	788.6	342.8	780.7
80°	1050.1	1189.6	619.3	264.0	706.9	425.9	210.4	494.3	720.6	272.8	671.5
81°	902.0	1086.6	517.2	209.0	636.6	350.2	139.8	418.8	649.4	214.4	556.1
82°	781.8	936.1	444.9	163.1	566.6	232.8	107.8	335.7	575.6	164.8	474.4
83°	684.5	746.1	391.0	120.8	484.3	103.2	80.8	195.7	504.2	127.3	409.2
84°	580.2	581.3	339.7	92.2	391.0	55.9	62.7	83.1	421.4	92.7	361.8
85°	470.7	482.1	293.2	66.4	319.9	39.1	42.2	51.9	338.0	67.5	315.9
86°	348.5	380.8	251.2	45.1	251.0	23.3	24.7	33.2	272.5	46.2	271.9
87°	259.2	273.4	201.1	30.1	148.0	15.9	0.0	19.3	188.3	29.2	235.4
88°	134.7	178.9	115.4	0.0	0.0	12.8	0.0	0.0	0.0	0.0	156.8
89°	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0	57.8



REPORT NUMBER: P1449866
 CATALOG NUMBER: TWC150_T3_150W_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: P1449866
 CATALOG NUMBER: TWC150_T3_150W_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: P1449866
CATALOG NUMBER: TWC150_T3_150W_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: P1449866
CATALOG NUMBER: TWC150_T3_150W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	7606.9	7606.9
1°	7606.5	7624.4
2°	7617.5	7632.6
3°	7615.6	7628.3
4°	7648.2	7631.7
5°	7645.3	7658.1
6°	7641.4	7667.5
7°	7642.2	7677.1
8°	7640.8	7684.5
9°	7624.6	7701.2
10°	7631.4	7701.8
11°	7665.5	7712.8
12°	7646.8	7715.4
13°	7709.7	7680.8
14°	7641.9	7733.2
15°	7627.2	7742.3
16°	7622.9	7757.1
17°	7622.7	7776.6
18°	7638.5	7796.8
19°	7636.5	7816.3
20°	7637.4	7797.0
21°	7574.4	7818.3
22°	7599.4	7852.3
23°	7591.5	7837.9
24°	7529.4	7841.9
25°	7595.4	7865.7
26°	7624.6	7873.9
27°	7573.0	7829.9
28°	7568.5	7962.6
29°	7579.3	7847.0
30°	7553.7	7967.8
31°	7542.7	7974.0
32°	7557.7	7982.2
33°	7529.1	7964.4
34°	7519.2	7977.4
35°	7501.0	7976.8
36°	7482.3	7896.6
37°	7462.4	8004.6
38°	7475.8	8007.7
39°	7398.1	7968.0
40°	7434.6	7935.4
41°	7405.2	7897.4
42°	7370.6	7836.5
43°	7325.8	7773.5
44°	7370.3	7694.7



REPORT NUMBER: P1449866
CATALOG NUMBER: TWC150_T3_150W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	7245.2	7571.0
46°	7200.7	7459.9
47°	7143.4	7336.0
48°	7050.1	7192.2
49°	6947.2	7081.0
50°	6811.6	6927.9
51°	6675.5	6797.7
52°	6524.9	6645.2
53°	6362.5	6507.7
54°	6207.1	6358.2
55°	6059.3	6207.1
56°	5905.6	6041.5
57°	5769.0	5875.9
58°	5606.2	5716.5
59°	5444.8	5518.6
60°	5275.5	5216.0
61°	5113.3	4890.7
62°	4921.4	4535.1
63°	4747.8	4153.5
64°	4454.0	3751.9
65°	4124.5	3452.2
66°	3775.5	3228.7
67°	3375.3	3040.4
68°	3105.4	2809.3
69°	2845.6	2574.5
70°	2635.8	2402.4
71°	2437.3	2249.6
72°	2224.3	2126.5
73°	2071.5	2003.4
74°	1951.0	1866.7
75°	1831.3	1719.3
76°	1709.6	1583.5
77°	1590.5	1457.0
78°	1478.5	1333.3
79°	1356.9	1195.5
80°	1244.9	1050.1
81°	1170.0	902.0
82°	1056.0	781.8
83°	904.9	684.5
84°	694.2	580.2
85°	558.3	470.7
86°	465.3	348.5
87°	358.4	259.2
88°	257.8	134.7
89°	152.3	0.0



REPORT NUMBER: P1449866
CATALOG NUMBER: TWC150_T3_150W_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: P1449866
CATALOG NUMBER: TWC150_T3_150W_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: P1449866
CATALOG NUMBER: TWC150_T3_150W_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

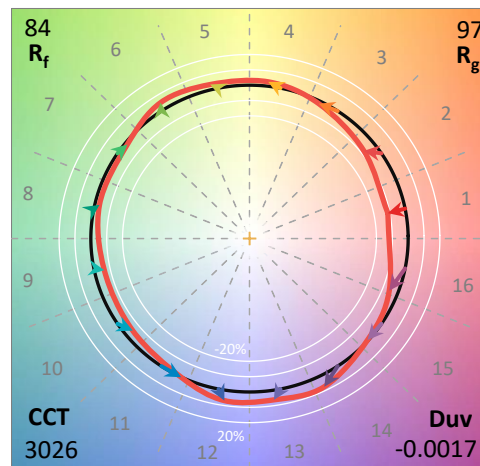
Test Information

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

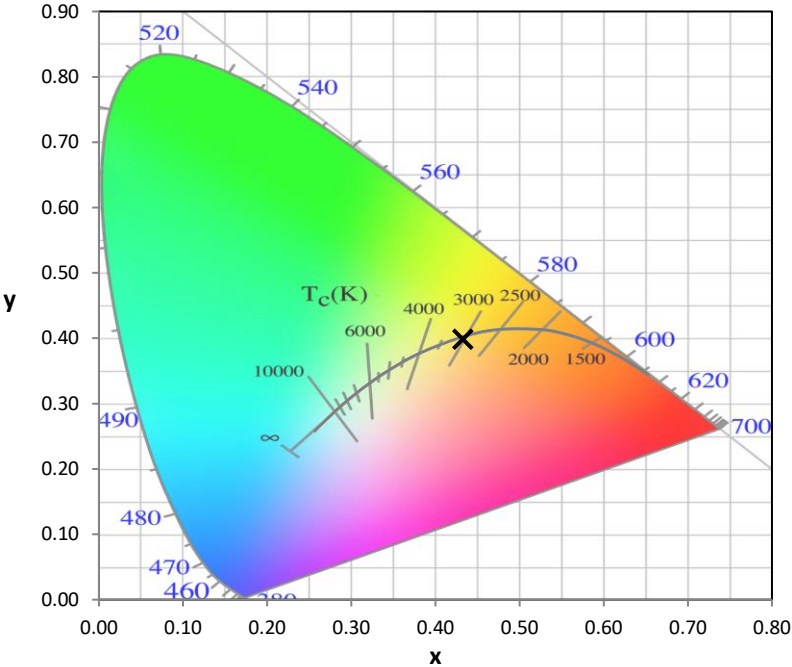
Stabilization Time: 64M
 Operation Time: 2H 4M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-1

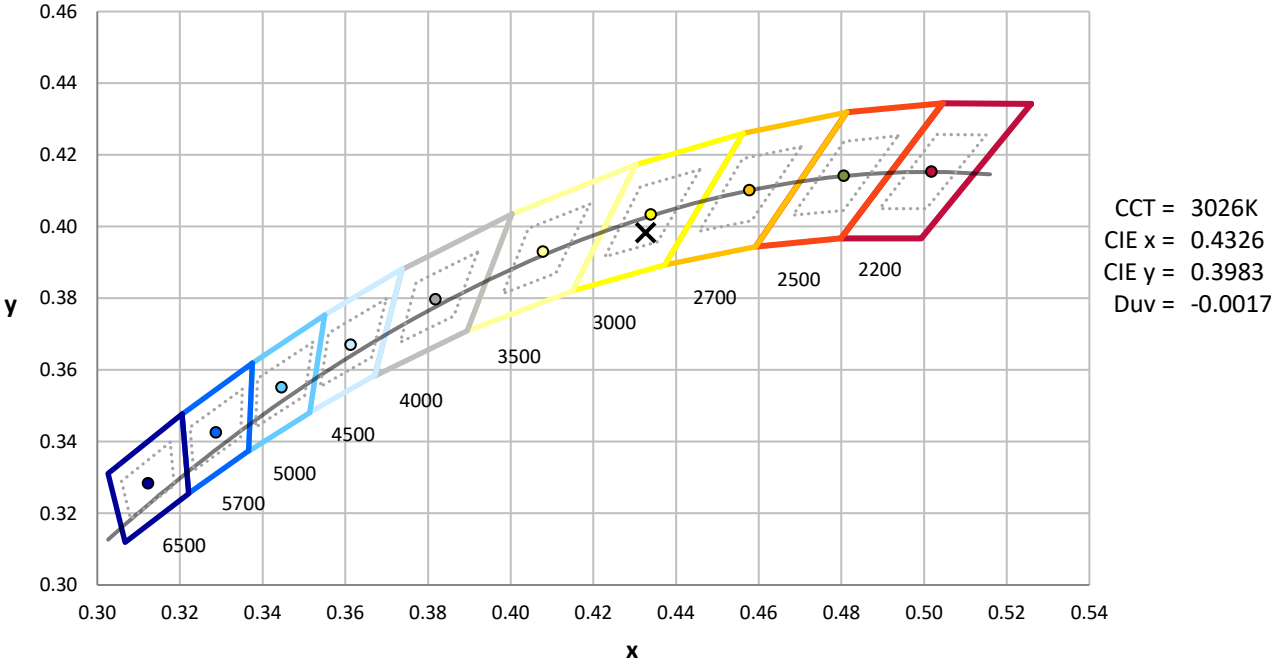
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

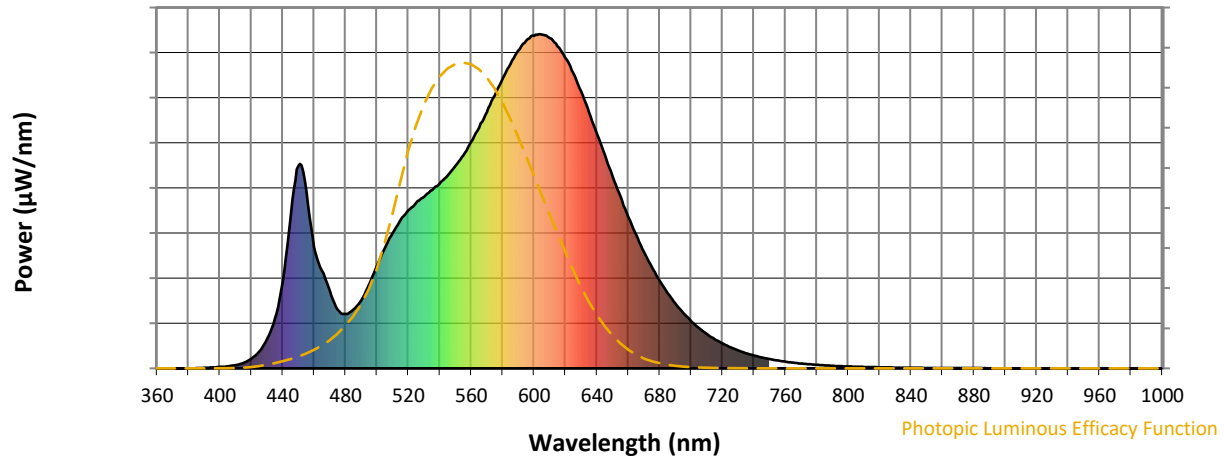


CCT = 3026K
 CIE x = 0.4326
 CIE y = 0.3983
 Duv = -0.0017

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

Photopic Flux vs. Wavelength

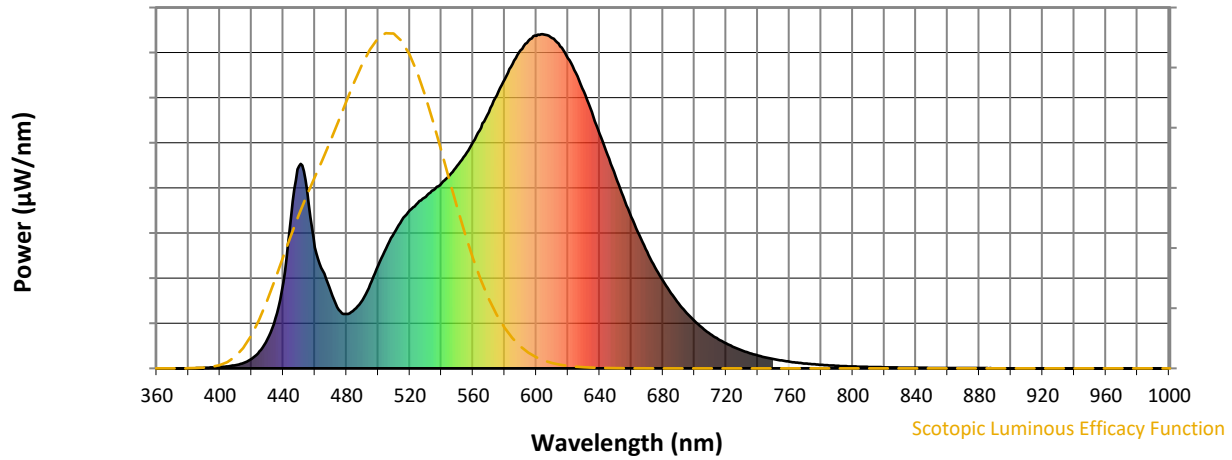


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2601-659-1

Scotopic Flux vs. Wavelength



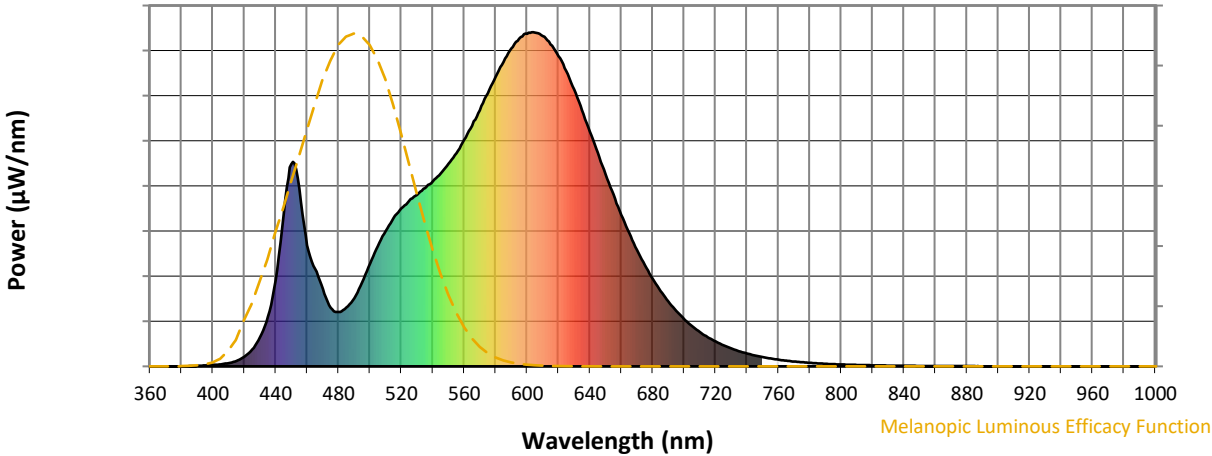
Scotopic Lumens: NR

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



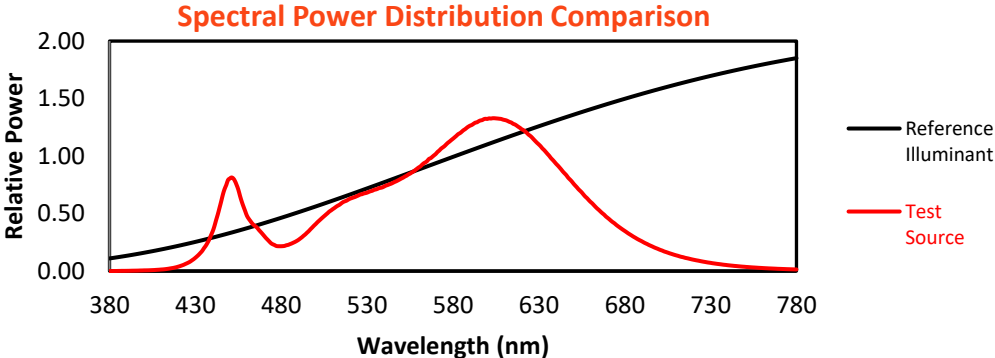
Melanopic Lumens: NR

M/P: 2.61

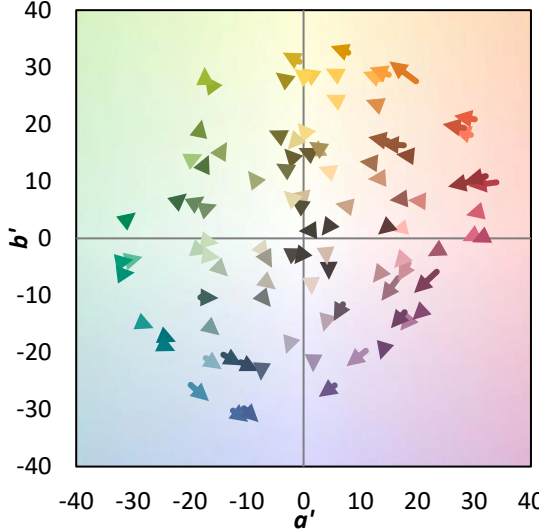
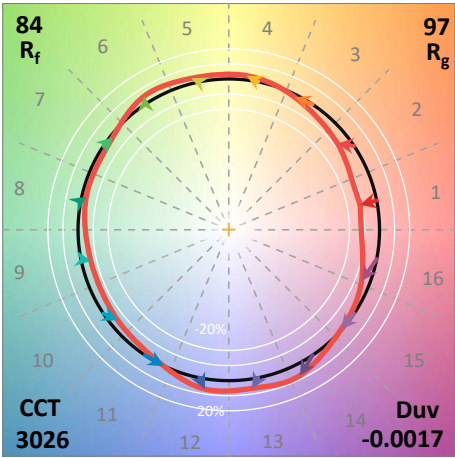
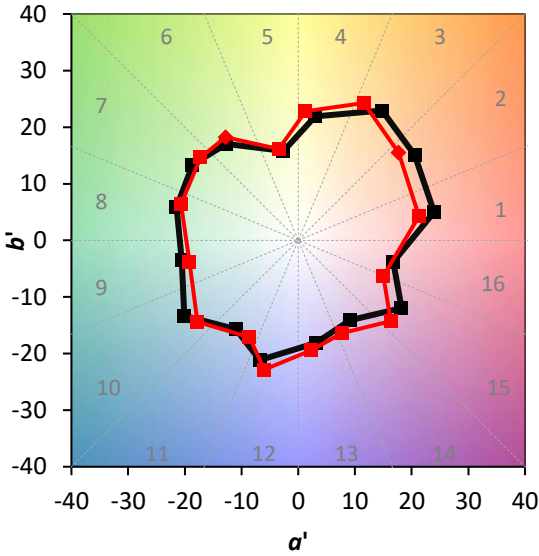
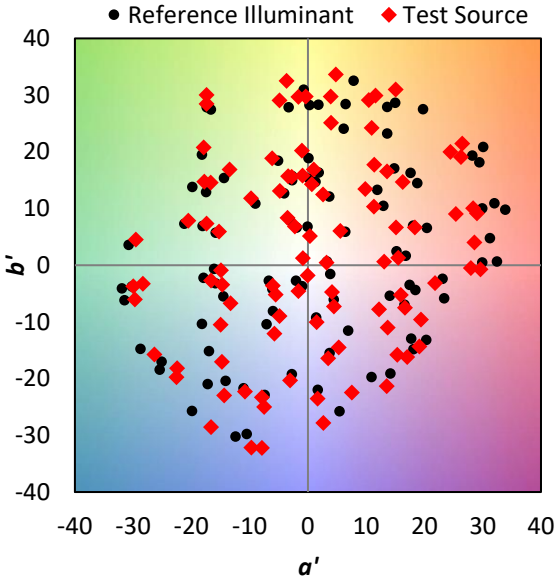
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	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

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

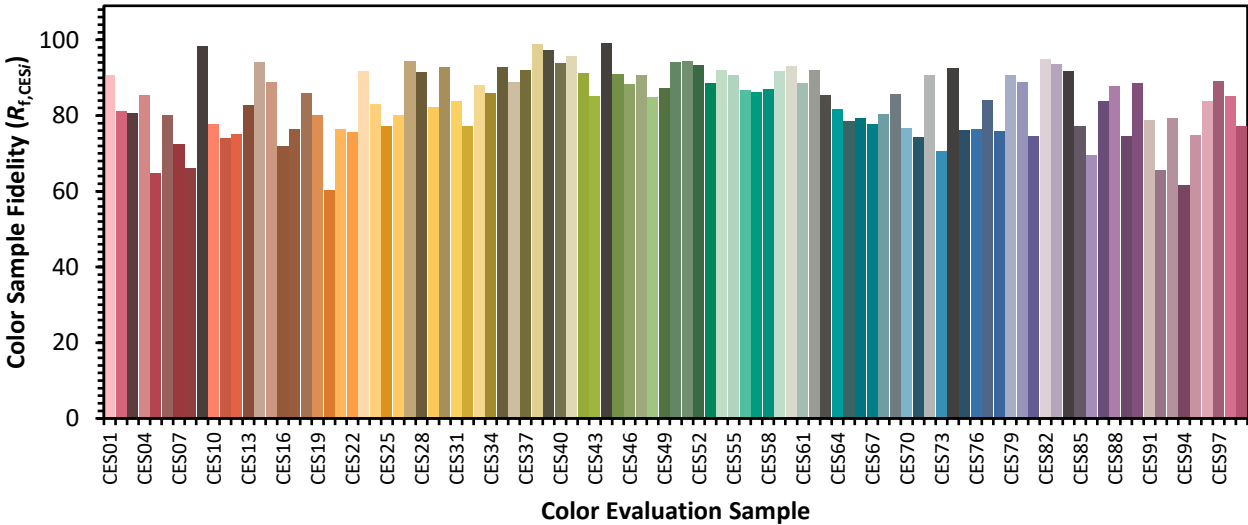


Color Vector Graphics

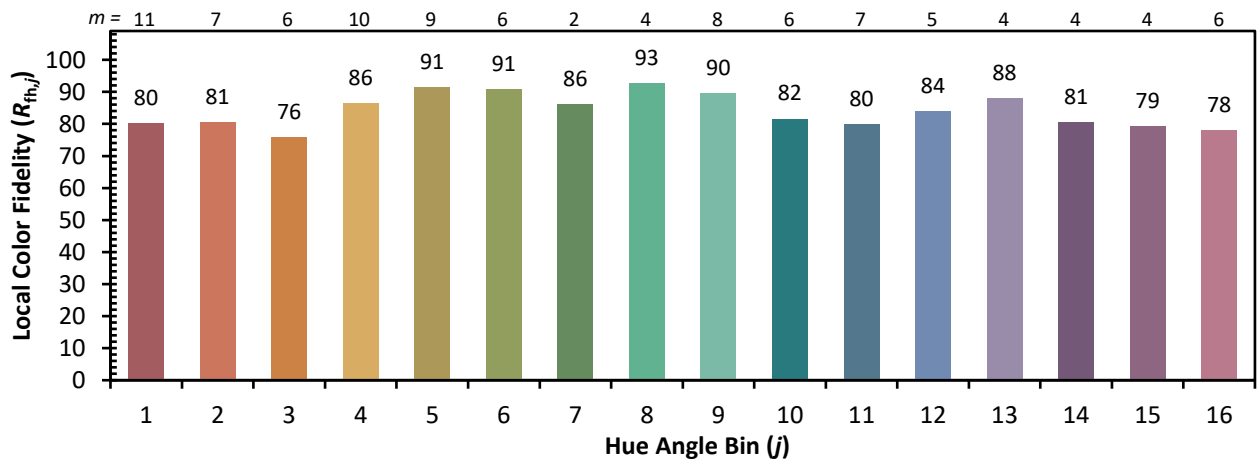
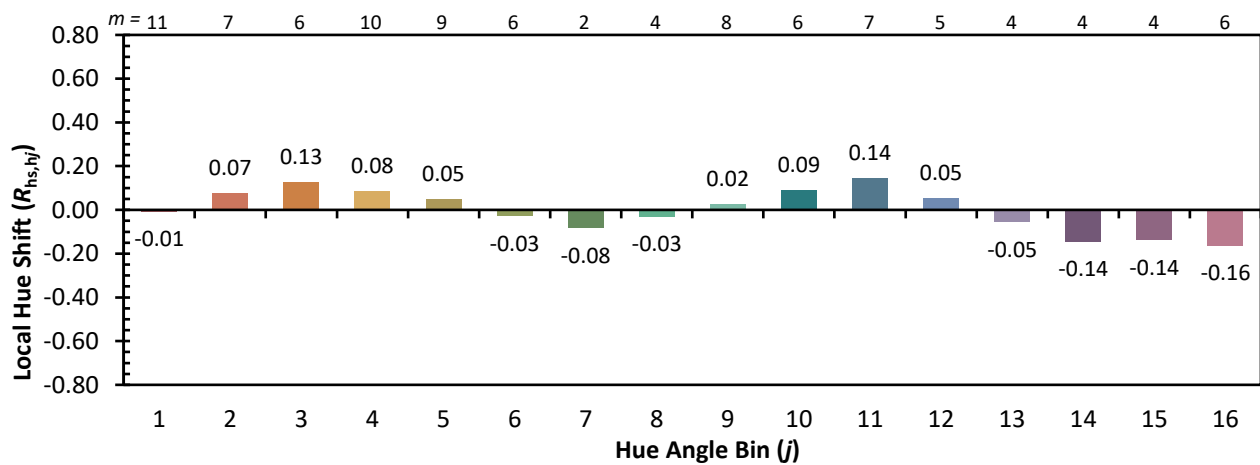
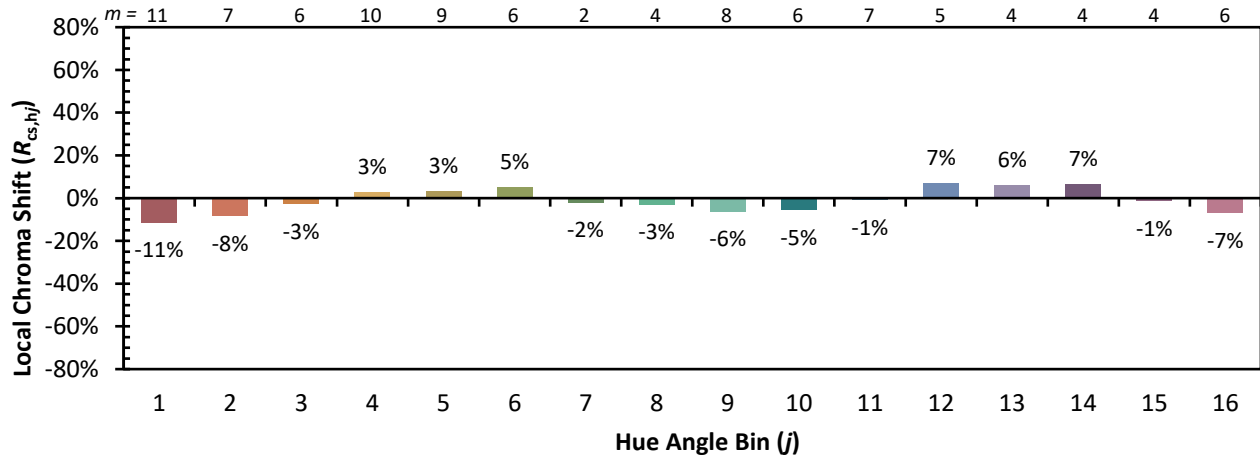


Individual Sample Fidelity Index ($R_{f,i}$)

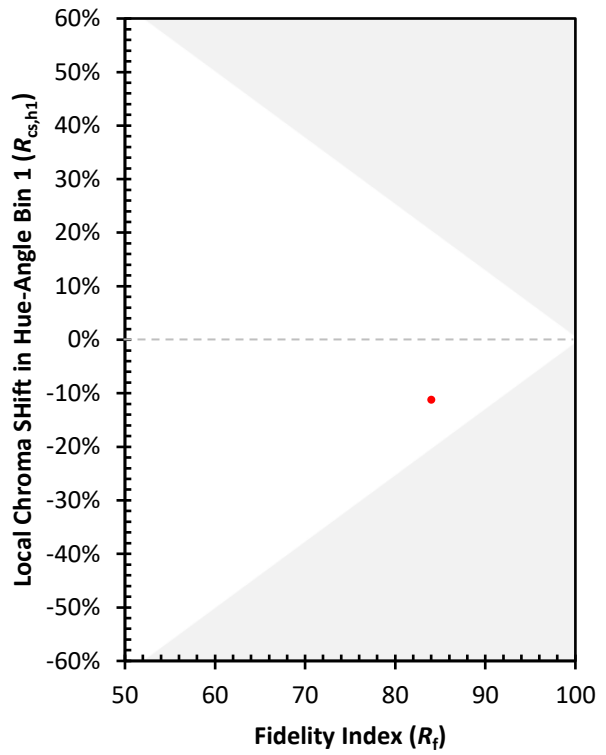
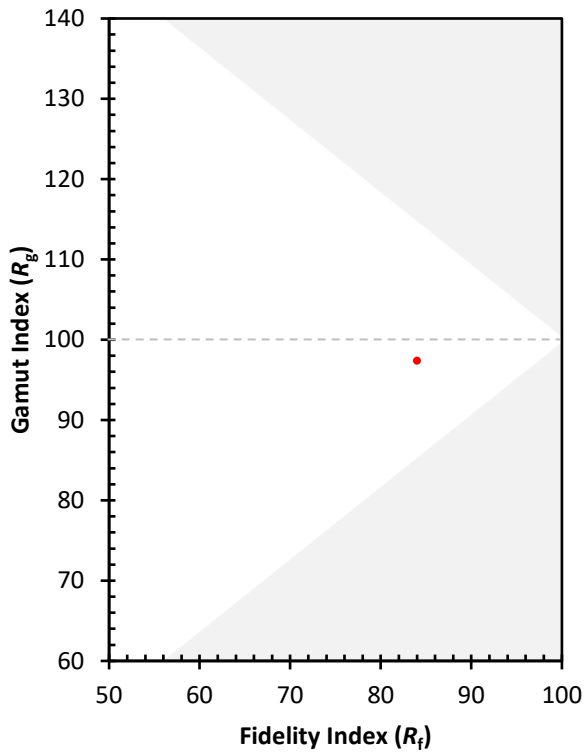
CES01 = 86	CES26 = 80	CES51 = 94	CES76 = 76
CES02 = 63	CES27 = 94	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 92	CES53 = 88	CES78 = 76
CES04 = 70	CES29 = 82	CES54 = 92	CES79 = 91
CES05 = 50	CES30 = 93	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 75
CES07 = 42	CES32 = 77	CES57 = 86	CES82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