

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: P1449868

Luminaire Tested: **TWC150\_T3\_150W\_5000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449868  
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\_5000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 150W  
5000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25113 lumens  
Efficiency: N/A  
Efficacy: 173.1 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

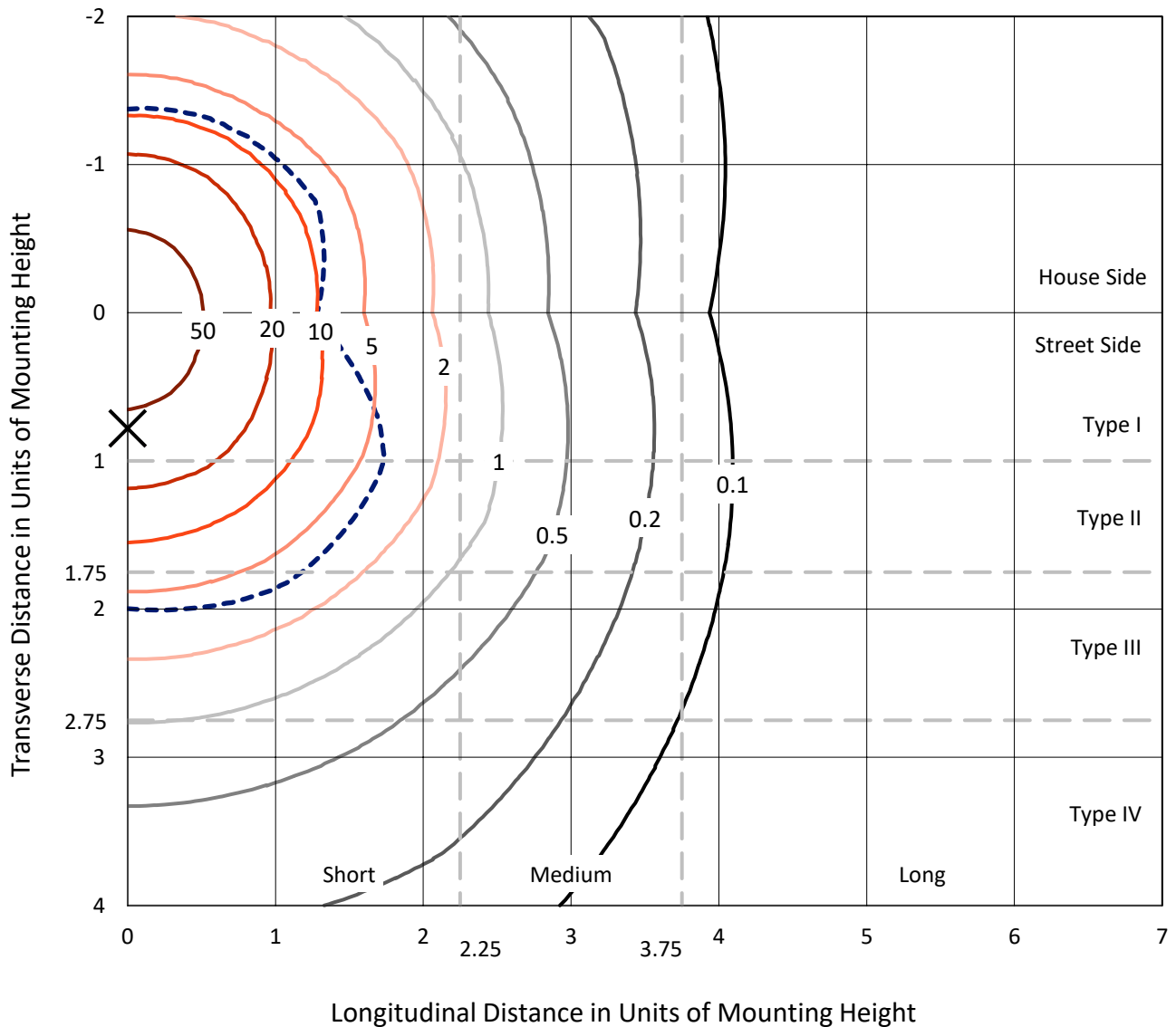
Input Watts (W): 145.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P1449868  
 CATALOG NUMBER: TWC150\_T3\_150W\_5000K

### Iso-Footcandle Lines of Horizontal Illumination

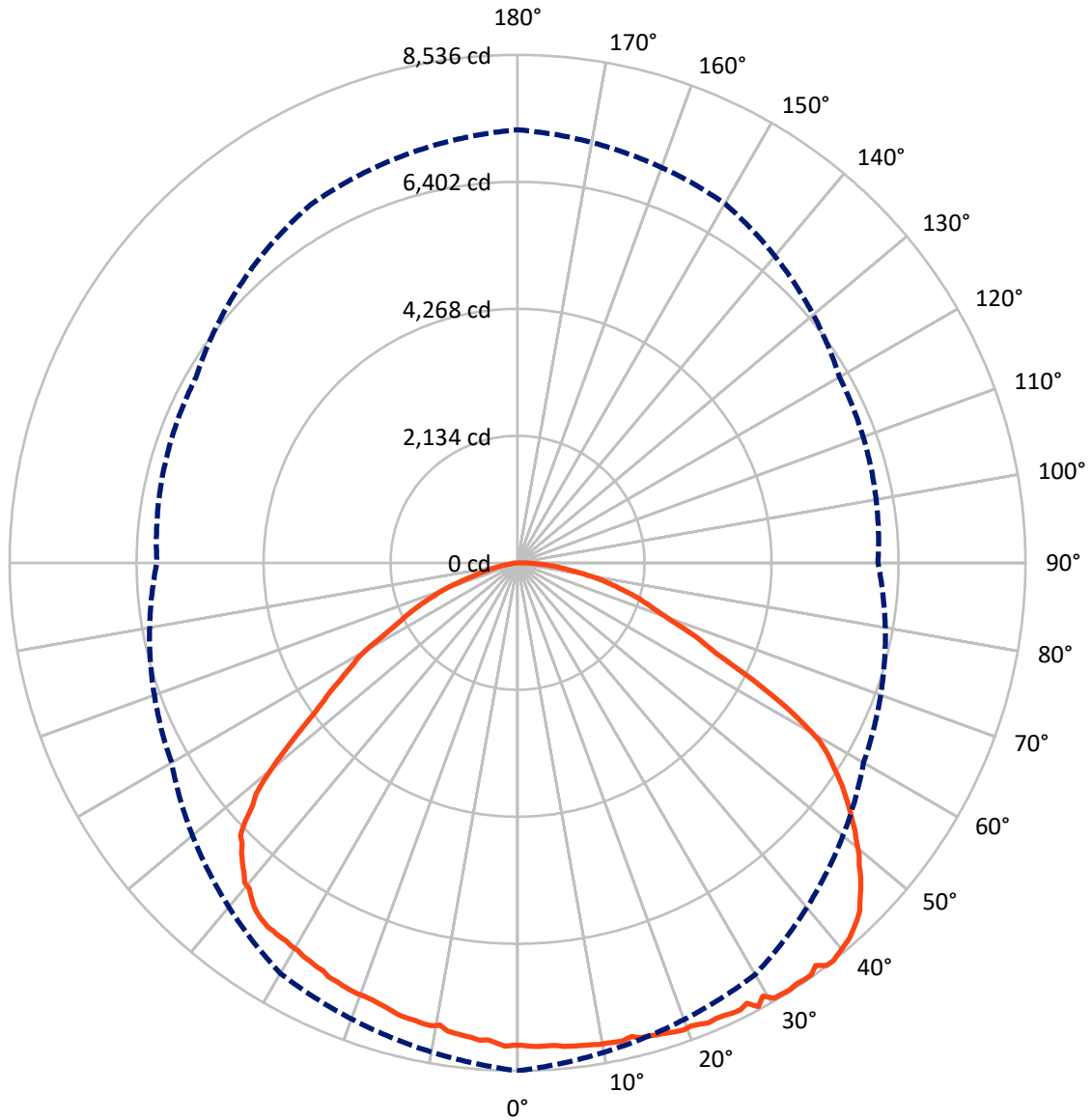
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 81.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P1449868  
CATALOG NUMBER: TWC150\_T3\_150W\_5000K

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P1449868  
 CATALOG NUMBER: TWC150\_T3\_150W\_5000K

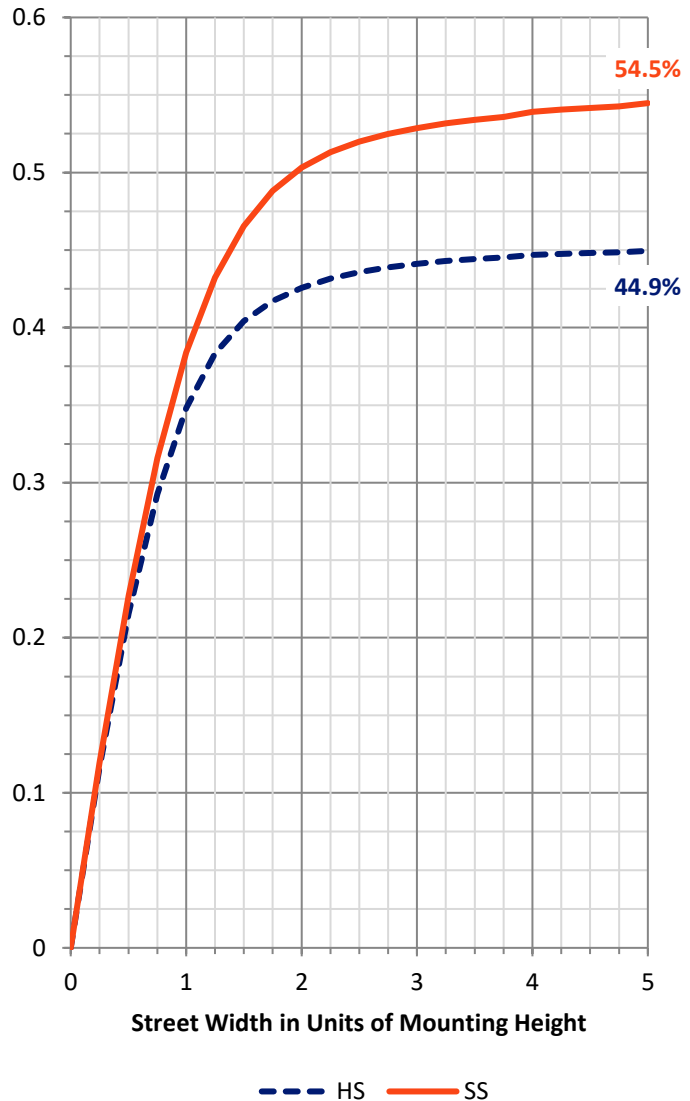
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11340.4	0.0	11340.4
	% Fixture	45.2	0.0	45.2
<b>Street Side</b>	Lumens	13772.6	0.0	13772.6
	% Fixture	54.8	0.0	54.8
<b>Total</b>	Lumens	25113.0	0.0	25113.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	769.4	3.1
10°-20°	2237.4	8.9
20°-30°	3508.8	14.0
30°-40°	4477.5	17.8
40°-50°	4940.2	19.7
50°-60°	4450.4	17.7
60°-70°	3031.5	12.1
70°-80°	1374.7	5.5
80°-90°	323.0	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°	25113.0	100.0
0°-180°	25113.0	100.0

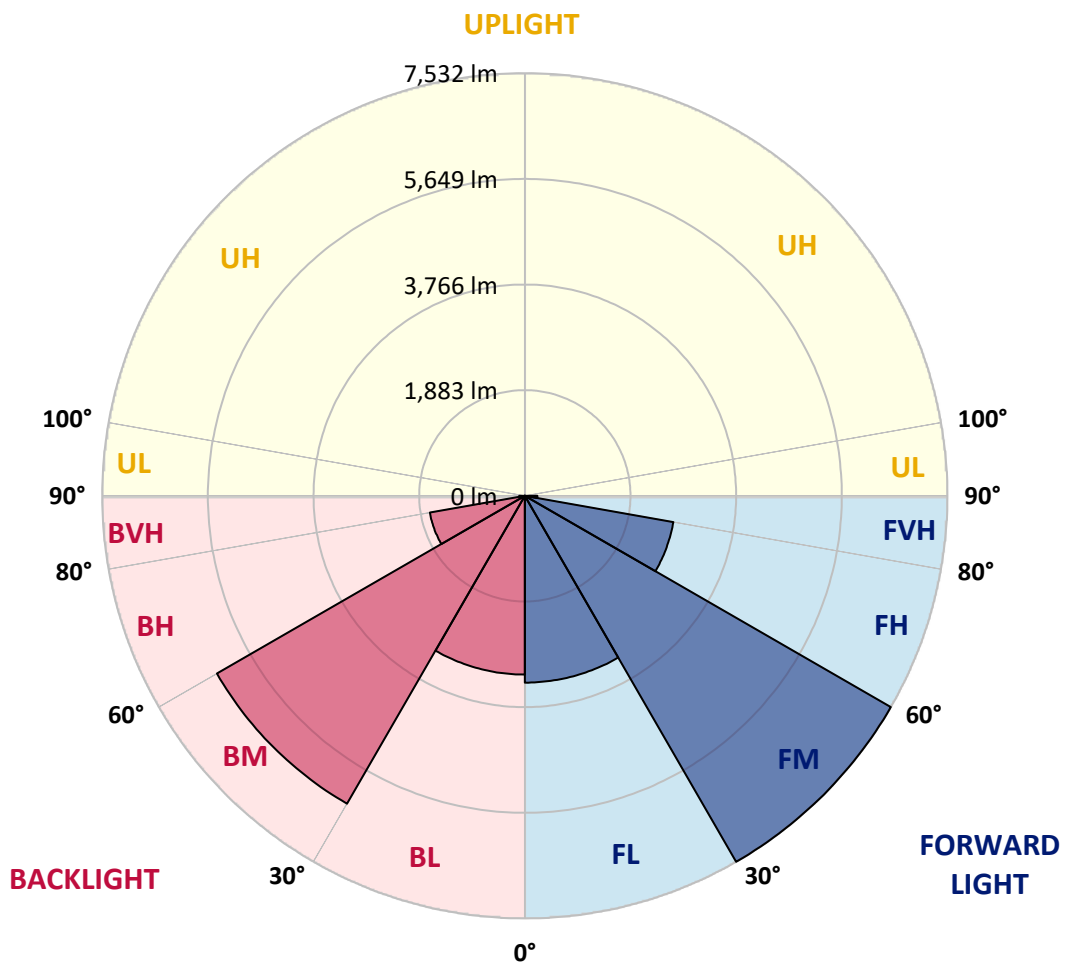


REPORT NUMBER: P1449868  
 CATALOG NUMBER: TWC150\_T3\_150W\_5000K

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3329.7	13.3			
FM	(30°-60°)	7531.8	30.0			
FH	(60°-80°)	2688.0	10.7			G2/5000
FVH	(80°-90°)	223.2	0.9			G2/225
BL	(0°-30°)	3186.0	12.7	B4/5000		
BM	(30°-60°)	6336.4	25.2	B4/8500		
BH	(60°-80°)	1718.2	6.8	B3/2500		G3/2500
BVH	(80°-90°)	99.8	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: P1449868

CATALOG NUMBER: TWC150\_T3\_150W\_5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	8109.0	8109.0	8109.0	8109.0	8109.0	8109.0	8109.0	8109.0	8109.0	8109.0	8109.0
1°	8127.6	8154.2	8120.7	8096.5	8103.4	8109.5	8109.5	8082.0	8103.7	8106.8	8115.8
2°	8136.4	8147.6	8162.1	8113.4	8122.2	8088.3	8127.3	8111.6	8094.7	7990.4	8127.3
3°	8131.8	8164.2	8138.2	8091.0	8085.9	8093.5	8077.7	8067.8	8082.3	8099.2	8123.1
4°	8135.5	8134.0	8137.9	8094.4	8082.0	8050.2	8031.8	8058.4	8068.4	8110.7	8106.8
5°	8163.6	8128.5	8103.4	8140.9	8043.3	8025.4	8050.2	8044.8	8052.6	8092.6	8100.7
6°	8173.6	8132.5	8103.4	8051.1	8021.2	8002.2	8016.1	8023.9	8032.7	8133.4	8095.6
7°	8183.8	8137.9	8080.8	8026.3	8001.3	7985.5	7996.1	8027.6	8020.0	8028.8	8083.5
8°	8191.7	8147.3	8067.5	7994.3	7981.9	7969.8	7979.2	8017.9	7988.3	8020.0	8072.3
9°	8209.5	8161.2	8066.6	7965.9	7948.7	7854.0	7957.1	7967.1	7971.3	7994.0	8085.3
10°	8210.1	8154.8	7967.7	7955.0	7921.2	7913.6	7877.9	7937.8	7929.0	7964.4	8066.9
11°	8221.9	8167.2	8030.6	7935.7	7902.1	7888.2	7913.9	7903.3	7932.0	7963.2	8021.5
12°	8224.6	8164.2	8012.7	7920.2	7876.7	7874.6	7906.0	7943.5	7859.2	7884.0	7983.7
13°	8187.8	8154.8	8041.2	7861.6	7838.9	7848.0	7885.8	7863.7	7819.3	7850.1	7964.7
14°	8243.7	8170.2	7972.2	7829.9	7768.8	7842.0	7875.2	7754.0	7786.0	7821.1	7945.0
15°	8253.4	8124.0	7934.5	7773.3	7733.4	7821.7	7861.3	7791.8	7664.2	7779.4	7924.5
16°	8269.1	8249.7	7900.9	7724.7	7710.8	7784.8	7826.5	7785.4	7691.1	7753.7	7902.7
17°	8289.9	8191.1	7866.1	7704.4	7643.0	7753.7	7790.6	7745.2	7653.6	7700.8	7891.5
18°	8311.4	8149.7	7824.4	7699.0	7597.4	7695.9	7764.0	7703.2	7611.3	7631.0	7852.8
19°	8332.3	8160.0	7792.1	7584.7	7556.0	7657.0	7738.0	7691.7	7570.5	7611.3	7818.7
20°	8311.7	8160.0	7761.2	7537.8	7512.5	7618.3	7725.9	7682.3	7507.6	7569.9	7770.6
21°	8334.4	8149.7	7730.7	7481.0	7467.1	7677.5	7726.5	7627.0	7449.6	7489.2	7662.7
22°	8370.7	8040.6	7689.0	7431.7	7407.6	7582.6	7708.0	7597.4	7410.6	7430.5	7702.6
23°	8355.2	8114.6	7638.8	7367.4	7358.9	7566.0	7689.3	7541.2	7342.9	7367.1	7663.6
24°	8359.5	8116.7	7603.1	7298.4	7281.2	7543.0	7660.6	7520.0	7280.0	7309.0	7601.3
25°	8384.9	8111.3	7572.6	7241.0	7202.6	7492.2	7650.9	7478.9	7231.6	7241.9	7552.1
26°	8393.6	8085.3	7419.4	7171.2	7152.1	7454.1	7597.4	7507.3	7151.2	7182.1	7483.1
27°	8346.8	8080.8	7343.2	7113.7	7089.9	7425.7	7580.5	7410.6	7089.3	7106.5	7423.9
28°	8488.2	8071.4	7444.1	7007.9	7021.5	7359.5	7547.5	7371.6	7015.5	7023.7	7367.7
29°	8364.9	8061.4	7312.3	6976.8	6956.5	7341.7	7532.7	7328.4	6958.7	6946.6	7346.5
30°	8493.7	8078.0	7238.6	6842.0	6895.8	7303.6	7491.0	7286.1	6886.7	6871.0	7272.1
31°	8500.3	8075.6	7194.1	6758.0	6827.8	7273.0	7480.7	7245.8	6852.0	6777.9	7203.8
32°	8509.1	8074.7	7128.0	6669.7	6771.3	7209.3	7450.2	7213.5	6764.3	6692.0	7175.4
33°	8490.1	8063.5	7076.9	6584.1	6697.5	7186.6	7448.7	7185.7	6688.7	6572.3	7076.0
34°	8504.0	8036.3	7062.1	6481.7	6608.3	7144.6	7425.7	7157.3	6608.9	6469.6	7003.7
35°	8503.4	8007.9	6871.6	6379.8	6527.0	7112.5	7418.1	7107.4	6505.8	6377.4	6925.4
36°	8417.8	8010.3	6850.1	6277.6	6420.6	7067.5	7382.5	7032.1	6422.1	6267.9	6872.8
37°	8533.0	7990.4	6780.9	6161.5	6328.7	7016.4	7340.2	6999.5	6329.9	6176.4	6793.6
38°	8536.3	7987.0	6713.5	6055.7	6244.7	6969.6	7276.4	6952.3	6238.3	6061.5	6714.4
39°	8494.0	7943.5	6643.7	5942.7	6155.8	6908.8	7189.3	6908.5	6172.4	5966.3	6651.8
40°	8459.2	7924.5	6578.7	5843.8	6085.1	6837.7	7091.1	6847.7	6079.6	5852.0	6576.0
41°	8418.7	7896.1	6512.8	5730.8	6002.8	6767.6	7062.7	6798.5	5992.3	5733.5	6504.0
42°	8353.7	7854.0	6433.9	5596.9	5913.7	6677.2	6939.9	6715.3	5892.8	5613.5	6440.8
43°	8286.6	7833.8	6368.0	5485.6	5822.7	6583.5	6842.0	6631.3	5799.1	5482.9	6368.6
44°	8202.6	7809.3	6278.2	5363.2	5733.2	6492.5	6736.5	6541.8	5708.4	5366.5	6290.0



REPORT NUMBER: P1449868

CATALOG NUMBER: TWC150\_T3\_150W\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	8070.8	7735.8	6212.0	5233.8	5622.3	6393.7	6605.9	6417.9	5630.7	5235.9	6214.1
46°	7952.3	7645.5	6140.1	5101.1	5520.1	6277.9	6526.7	6313.9	5522.2	5101.1	6144.0
47°	7820.2	7555.4	6064.2	4974.4	5423.0	6137.6	6311.2	6213.2	5403.4	4976.9	6046.1
48°	7666.9	7450.2	5981.7	4837.8	5304.3	6011.3	6038.8	6094.1	5295.2	4834.8	5966.3
49°	7548.4	7330.5	5917.3	4628.9	5185.5	5867.1	5868.0	5886.4	5199.1	4707.8	5908.8
50°	7385.2	7137.9	5844.4	4544.6	5053.9	5704.2	5579.9	5812.7	5057.3	4564.6	5839.3
51°	7246.5	7023.1	5780.0	4408.0	4934.6	5509.5	5236.5	5627.4	4932.4	4432.1	5784.3
52°	7083.8	6864.7	5727.1	4265.9	4800.6	5199.4	4894.3	5414.3	4805.5	4286.4	5719.9
53°	6937.2	6686.3	5668.5	4116.6	4675.2	4896.8	4563.3	5136.5	4720.8	4138.9	5648.3
54°	6777.9	6500.7	5606.2	3965.7	4546.7	4579.4	4247.8	4833.0	4531.3	3960.9	5571.5
55°	6616.8	6357.7	5534.6	3812.5	4413.1	4240.2	4008.3	4496.5	4387.7	3830.9	5518.9
56°	6440.2	6216.8	5448.1	3638.0	4240.8	3947.0	3823.9	4202.4	4256.8	3649.2	5447.8
57°	6263.7	6060.9	5374.4	3478.7	4094.2	3700.9	3585.4	3872.6	4109.9	3493.2	5372.9
58°	6093.8	5872.8	5251.0	3324.9	3947.0	3488.1	3388.0	3627.8	3963.3	3332.4	5324.5
59°	5882.8	5690.3	5120.2	3172.2	3798.6	3272.9	3220.0	3437.0	3815.5	3180.4	5158.2
60°	5560.3	5513.1	4971.4	3003.5	3645.0	3091.2	3068.8	3264.7	3661.9	3019.3	5008.0
61°	5213.6	5351.1	4808.2	2852.4	3490.8	2957.9	2824.3	3055.2	3508.1	2867.8	4850.2
62°	4834.5	5137.4	4612.3	2702.1	3321.5	2804.6	2574.6	2896.5	3344.8	2693.4	4668.5
63°	4427.6	4856.6	4377.4	2558.0	3120.5	2603.9	2373.3	2763.2	3171.0	2547.7	4461.5
64°	3999.6	4529.2	4143.8	2400.2	2879.6	2392.6	2213.1	2569.4	2973.6	2400.5	4217.2
65°	3680.1	4174.3	3899.2	2250.8	2679.8	2251.7	2077.3	2363.6	2758.7	2253.6	3976.3
66°	3441.8	3744.1	3645.6	2098.2	2430.7	2140.2	1940.1	2213.4	2530.8	2097.0	3739.0
67°	3241.1	3382.0	3394.1	1938.3	2197.3	2027.1	1791.1	2106.6	2250.2	1946.1	3472.1
68°	2994.8	3093.0	3112.1	1768.4	1972.1	1901.1	1654.7	1979.7	2029.6	1775.6	3201.2
69°	2744.5	2859.0	2871.1	1609.4	1797.1	1778.1	1504.5	1872.7	1826.1	1627.8	2955.8
70°	2561.0	2664.4	2668.6	1456.7	1662.3	1661.7	1377.2	1749.3	1679.5	1463.1	2726.3
71°	2398.0	2439.5	2492.4	1308.9	1543.2	1544.1	1223.7	1638.7	1554.7	1321.3	2572.8
72°	2266.9	2255.1	2271.1	1149.3	1412.6	1426.5	1062.5	1524.4	1432.8	1170.2	2366.0
73°	2135.7	2113.3	1987.8	1016.3	1312.5	1302.0	907.8	1408.4	1317.1	1026.0	2102.4
74°	1990.0	1985.7	1684.4	882.1	1226.7	1161.4	770.2	1276.6	1224.3	885.7	1786.8
75°	1832.8	1848.5	1375.7	758.4	1136.0	989.4	665.9	1134.5	1146.9	764.2	1481.2
76°	1688.0	1727.9	1182.3	637.2	1055.0	852.5	564.4	972.2	1058.0	651.7	1252.4
77°	1553.2	1597.6	1052.6	533.2	978.5	738.5	475.5	842.8	986.4	537.2	1104.9
78°	1421.4	1467.3	911.1	440.1	905.1	637.2	389.0	716.4	910.2	444.1	972.2
79°	1274.4	1366.6	793.5	360.6	833.7	533.8	303.2	610.3	840.7	365.5	832.2
80°	1119.4	1268.1	660.2	281.4	753.6	454.0	224.3	526.9	768.1	290.8	715.8
81°	961.6	1158.4	551.4	222.8	678.6	373.3	149.0	446.5	692.2	228.5	592.8
82°	833.4	997.9	474.3	173.8	604.0	248.2	114.9	357.9	613.6	175.6	505.7
83°	729.7	795.3	416.9	128.8	516.3	110.0	86.2	208.6	537.5	135.7	436.2
84°	618.5	619.7	362.1	98.2	416.9	59.5	66.8	88.6	449.2	98.8	385.7
85°	501.8	513.9	312.6	70.7	341.0	41.7	45.0	55.3	360.3	71.9	336.7
86°	371.5	406.0	267.8	48.1	267.5	24.8	26.3	35.4	290.5	49.3	289.9
87°	276.3	291.4	214.3	32.0	157.8	16.9	0.0	20.6	200.7	31.1	250.9
88°	143.6	190.7	123.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0	167.2
89°	0.0	0.0	0.0	0.0	0.0	13.0	0.0	0.0	0.0	0.0	61.7



REPORT NUMBER: P1449868  
 CATALOG NUMBER: TWC150\_T3\_150W\_5000K

**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: P1449868  
 CATALOG NUMBER: TWC150\_T3\_150W\_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: P1449868  
CATALOG NUMBER: TWC150\_T3\_150W\_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: P1449868  
CATALOG NUMBER: TWC150\_T3\_150W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	8109.0	8109.0
1°	8108.6	8127.6
2°	8120.4	8136.4
3°	8118.2	8131.8
4°	8153.0	8135.5
5°	8150.0	8163.6
6°	8145.8	8173.6
7°	8146.7	8183.8
8°	8145.1	8191.7
9°	8127.9	8209.5
10°	8135.2	8210.1
11°	8171.4	8221.9
12°	8151.5	8224.6
13°	8218.6	8187.8
14°	8146.4	8243.7
15°	8130.6	8253.4
16°	8126.1	8269.1
17°	8125.8	8289.9
18°	8142.7	8311.4
19°	8140.6	8332.3
20°	8141.5	8311.7
21°	8074.4	8334.4
22°	8101.0	8370.7
23°	8092.6	8355.2
24°	8026.3	8359.5
25°	8096.8	8384.9
26°	8127.9	8393.6
27°	8072.9	8346.8
28°	8068.1	8488.2
29°	8079.6	8364.9
30°	8052.3	8493.7
31°	8040.6	8500.3
32°	8056.6	8509.1
33°	8026.0	8490.1
34°	8015.5	8504.0
35°	7996.1	8503.4
36°	7976.2	8417.8
37°	7955.0	8533.0
38°	7969.2	8536.3
39°	7886.4	8494.0
40°	7925.4	8459.2
41°	7893.9	8418.7
42°	7857.1	8353.7
43°	7809.3	8286.6
44°	7856.8	8202.6



REPORT NUMBER: P1449868  
CATALOG NUMBER: TWC150\_T3\_150W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	7723.5	8070.8
46°	7676.0	7952.3
47°	7614.9	7820.2
48°	7515.5	7666.9
49°	7405.7	7548.4
50°	7261.3	7385.2
51°	7116.2	7246.5
52°	6955.6	7083.8
53°	6782.4	6937.2
54°	6616.8	6777.9
55°	6459.3	6616.8
56°	6295.4	6440.2
57°	6149.7	6263.7
58°	5976.2	6093.8
59°	5804.2	5882.8
60°	5623.8	5560.3
61°	5450.9	5213.6
62°	5246.2	4834.5
63°	5061.2	4427.6
64°	4748.0	3999.6
65°	4396.8	3680.1
66°	4024.7	3441.8
67°	3598.1	3241.1
68°	3310.4	2994.8
69°	3033.5	2744.5
70°	2809.8	2561.0
71°	2598.2	2398.0
72°	2371.2	2266.9
73°	2208.2	2135.7
74°	2079.7	1990.0
75°	1952.2	1832.8
76°	1822.5	1688.0
77°	1695.5	1553.2
78°	1576.1	1421.4
79°	1446.4	1274.4
80°	1327.0	1119.4
81°	1247.2	961.6
82°	1125.7	833.4
83°	964.6	729.7
84°	740.0	618.5
85°	595.2	501.8
86°	496.1	371.5
87°	382.1	276.3
88°	274.8	143.6
89°	162.3	0.0



REPORT NUMBER: P1449868  
CATALOG NUMBER: TWC150\_T3\_150W\_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: P1449868  
CATALOG NUMBER: TWC150\_T3\_150W\_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: P1449868  
CATALOG NUMBER: TWC150\_T3\_150W\_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

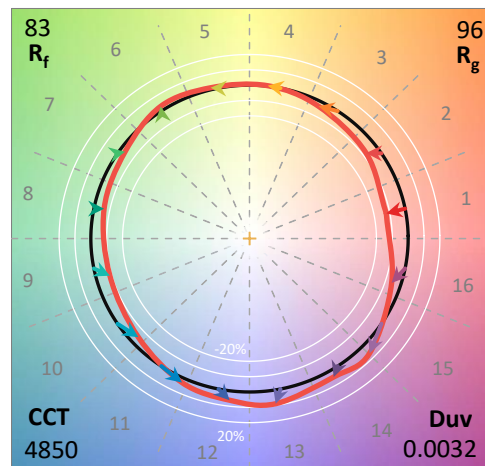
**Test Information**

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**

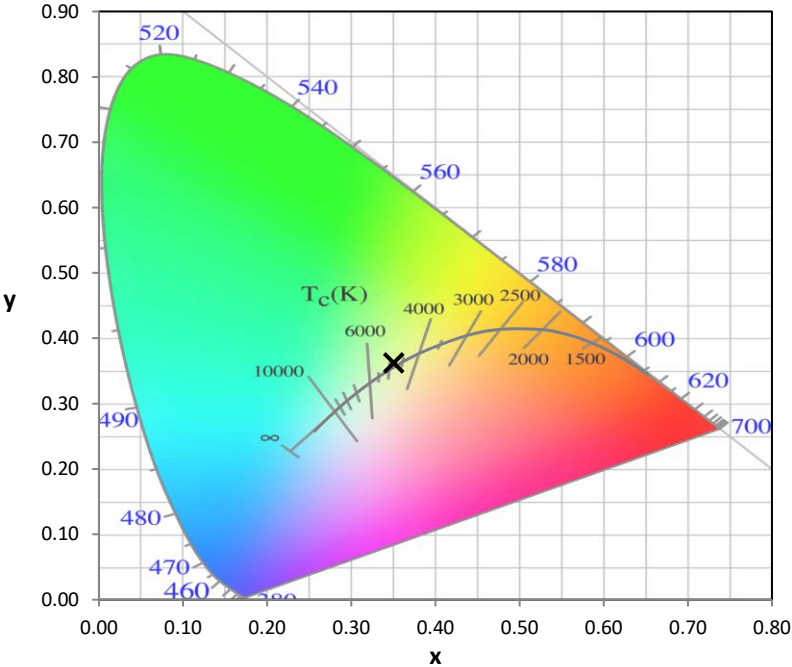
Stabilization Time: 25M  
 Operation Time: 1H 25M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

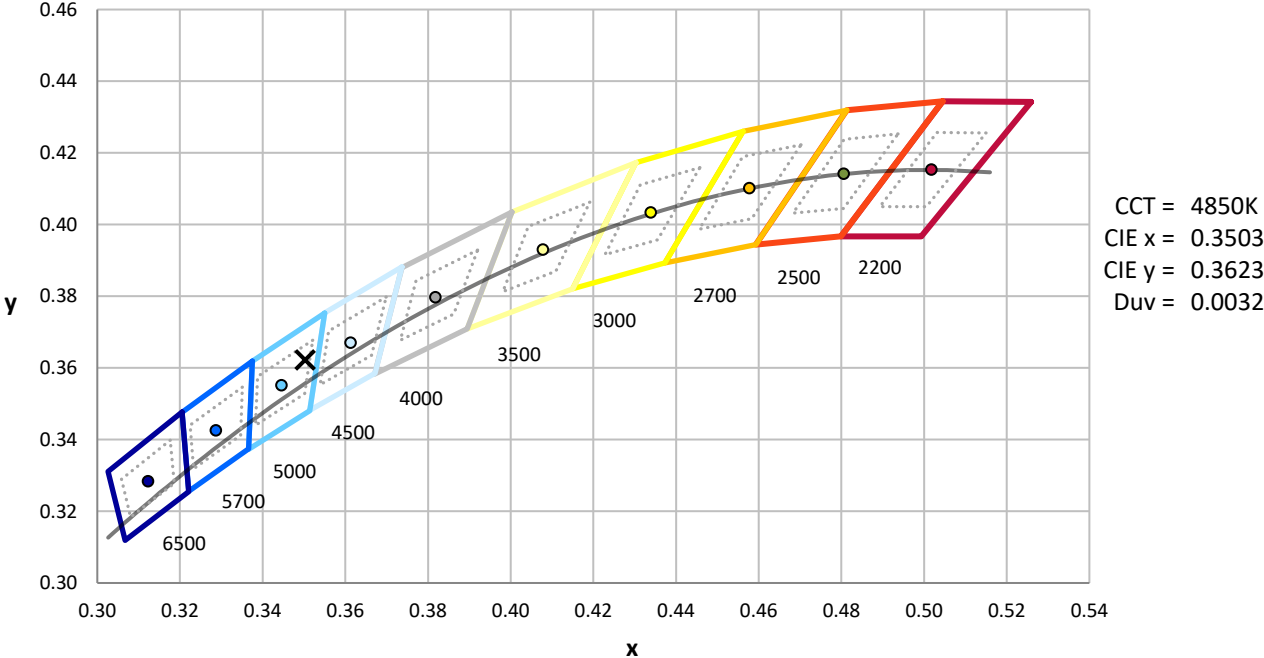
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



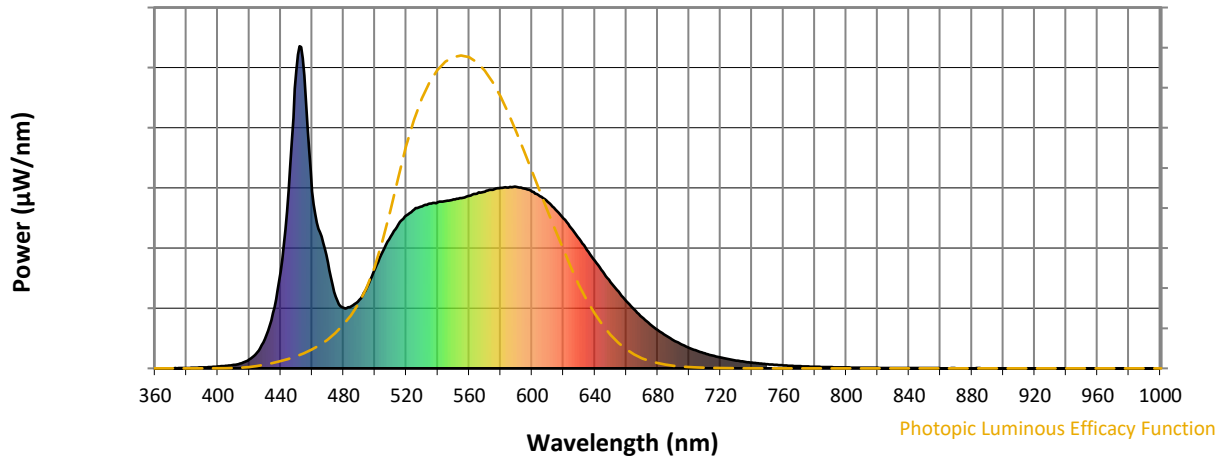
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

**Photopic Flux vs. Wavelength**

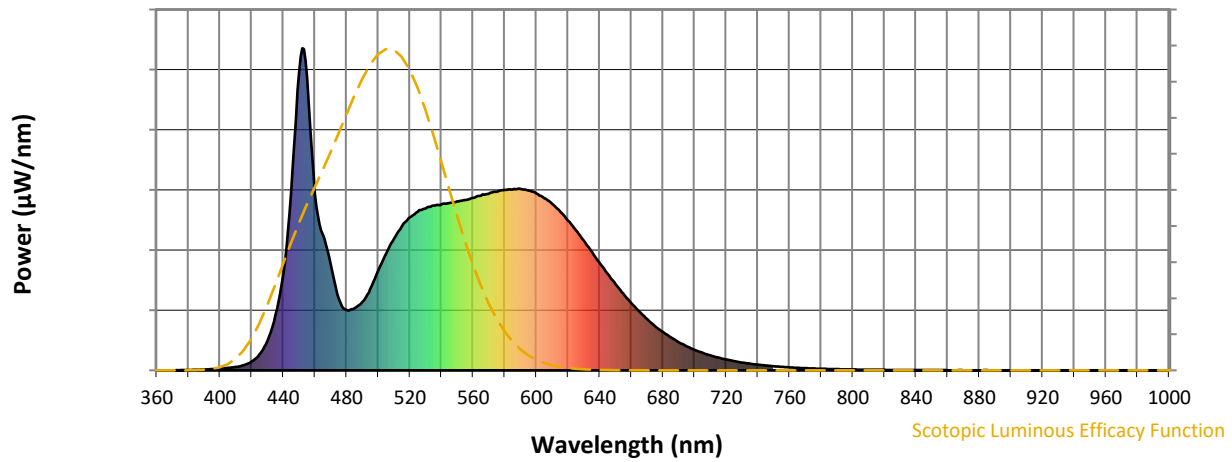


**Photopic Lumens: NR**

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			

REPORT NUMBER: SP1-2601-659-3

**Scotopic Flux vs. Wavelength**



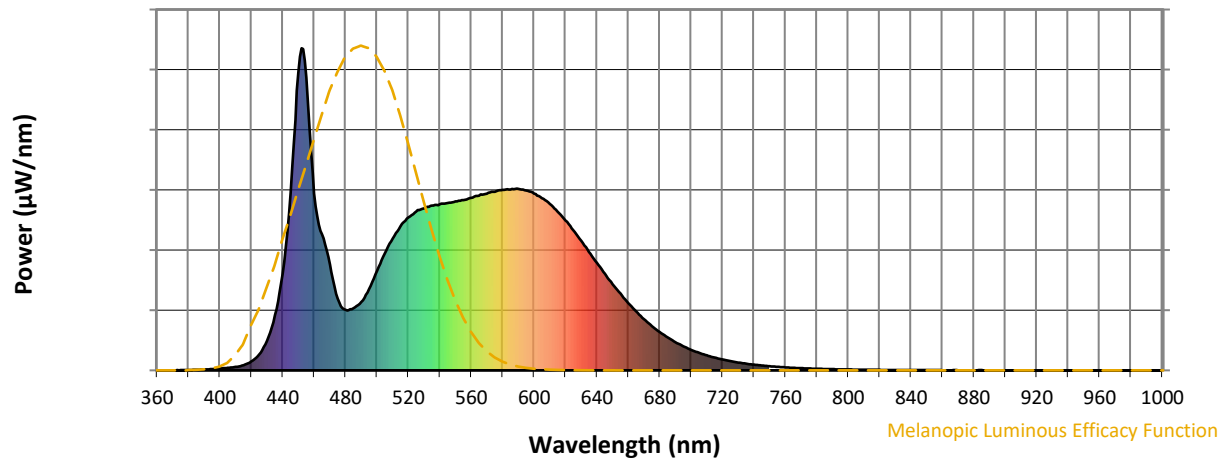
**Scotopic Lumens: NR**

**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			

REPORT NUMBER: SP1-2601-659-3

**Melanopic Flux vs. Wavelength**



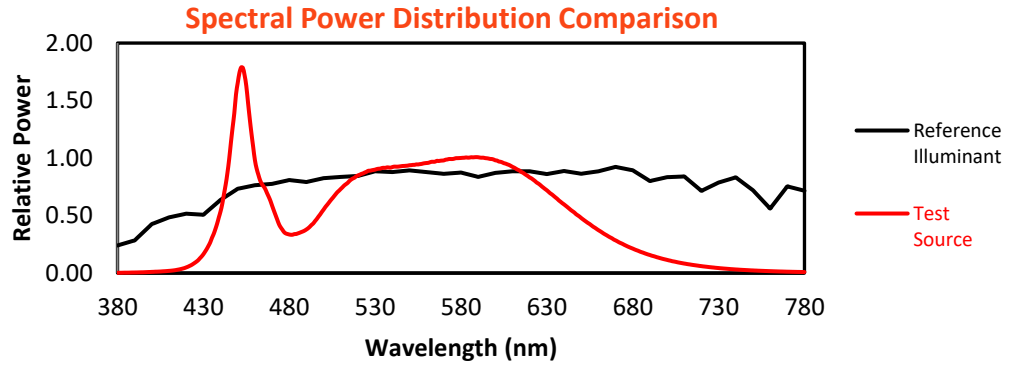
**Melanopic Lumens: NR**

**M/P: 4**

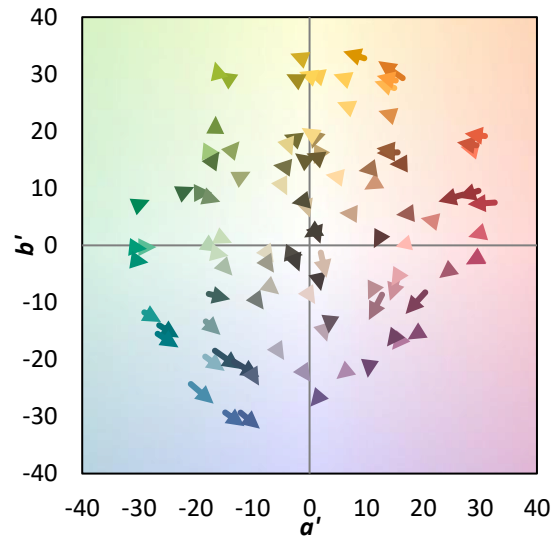
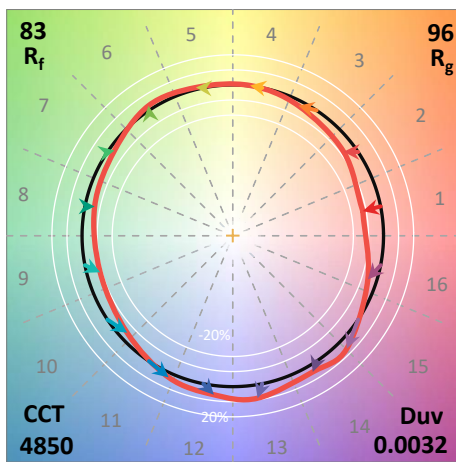
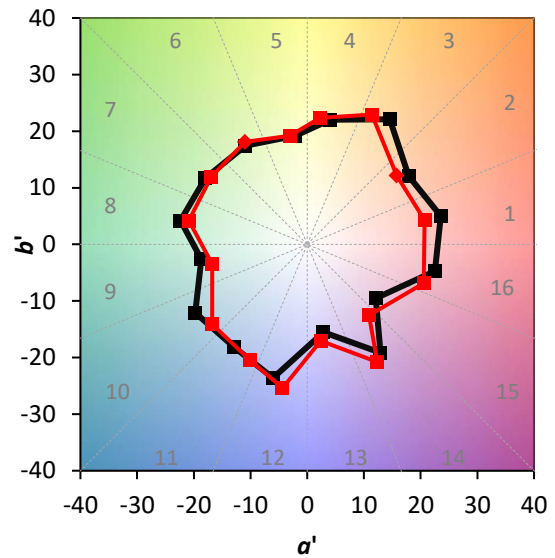
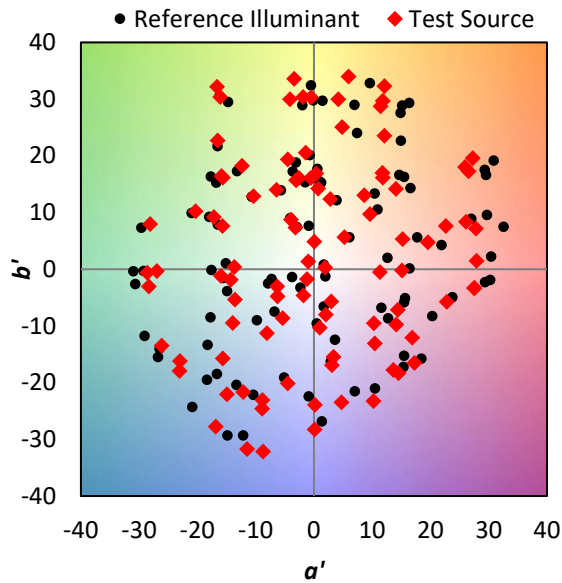
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	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**

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

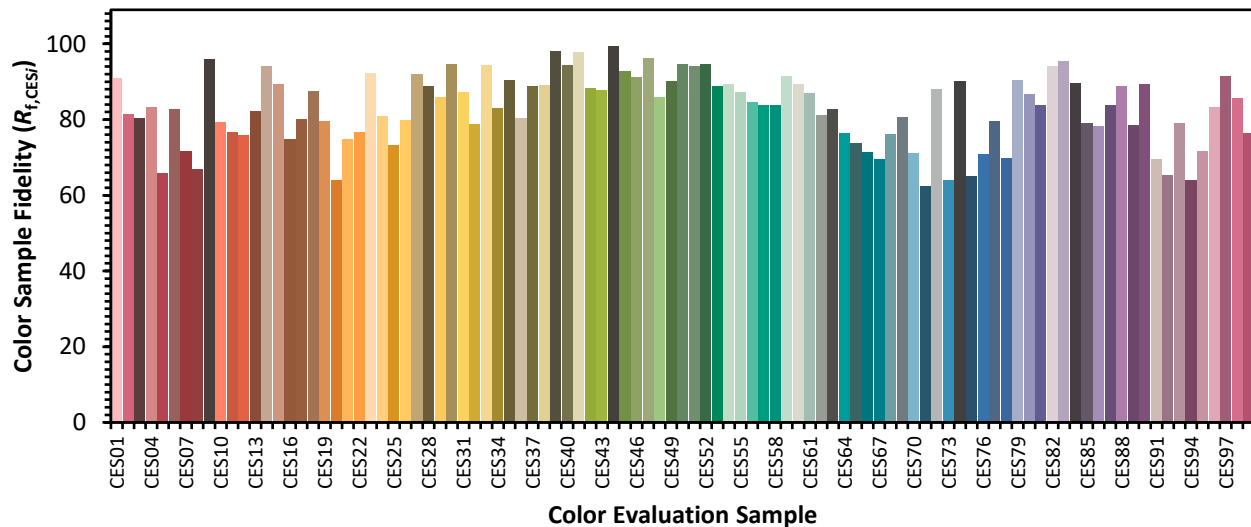


**Color Vector Graphics**

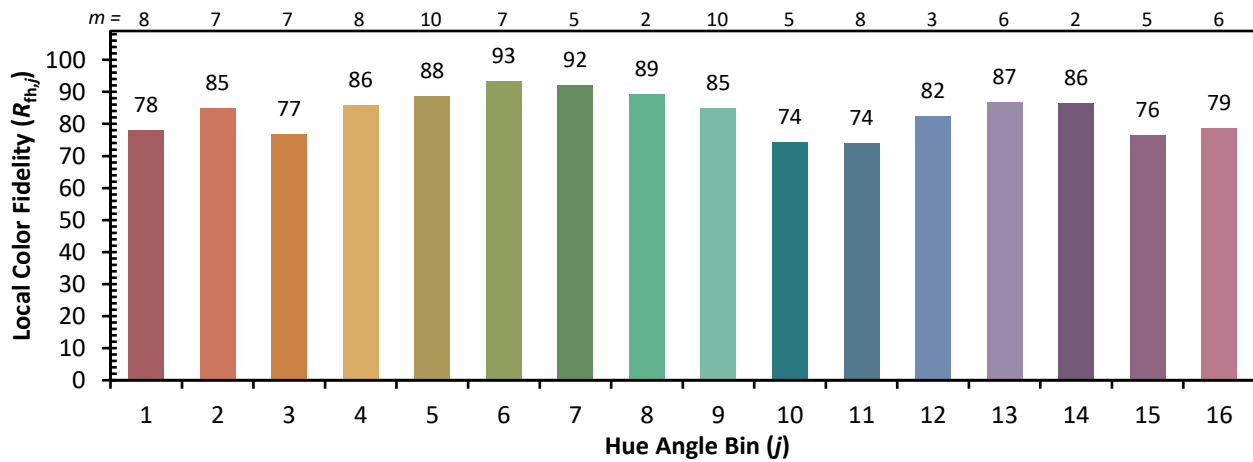
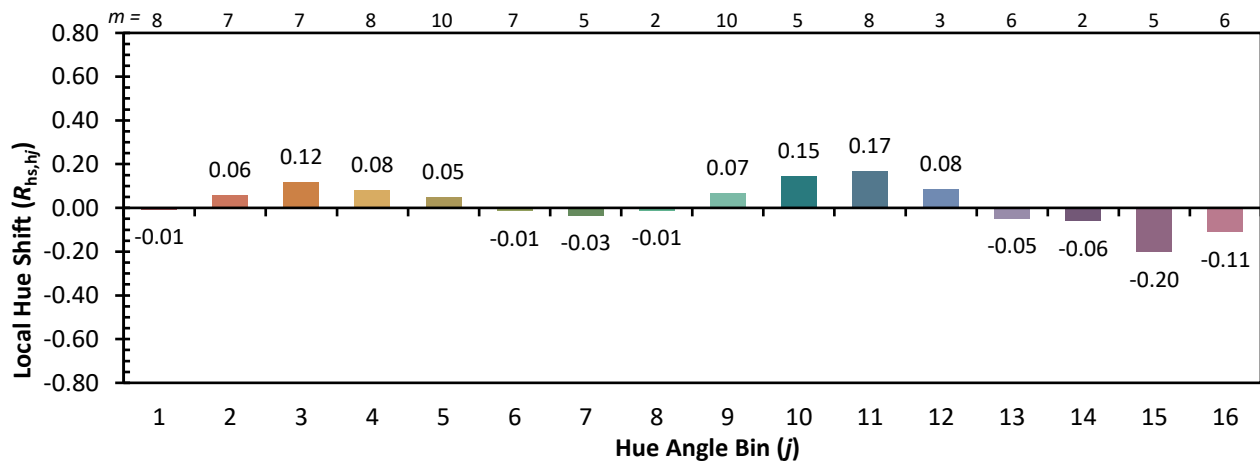
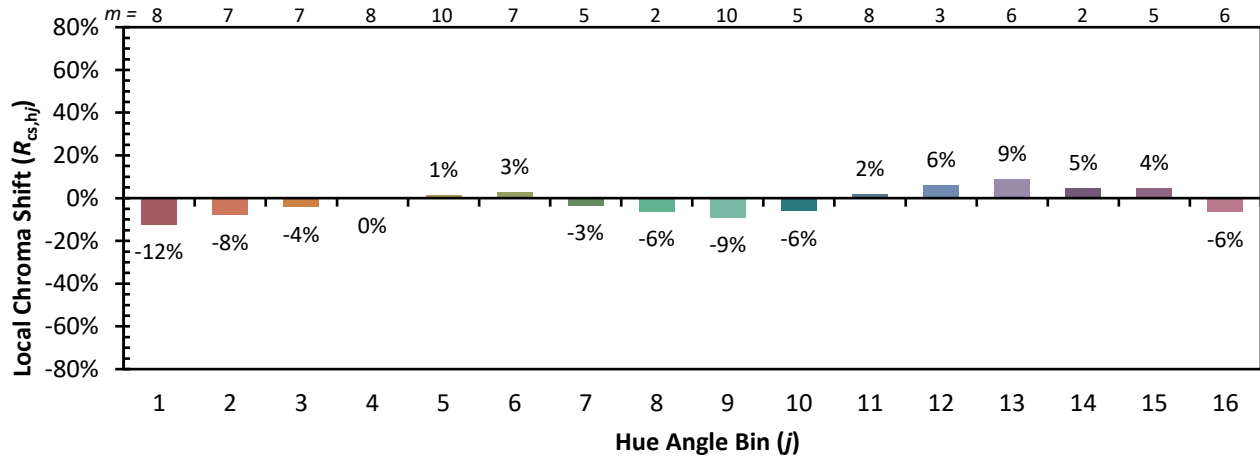


Individual Sample Fidelity Index ( $R_{f,i}$ )

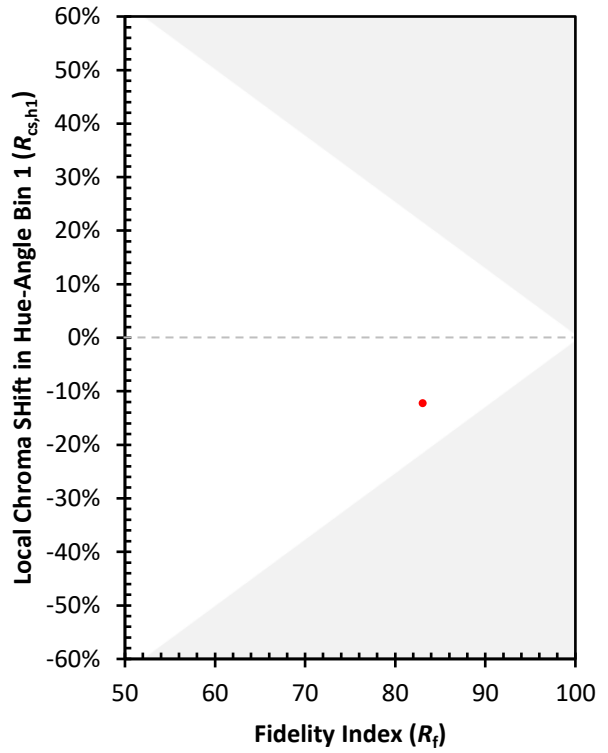
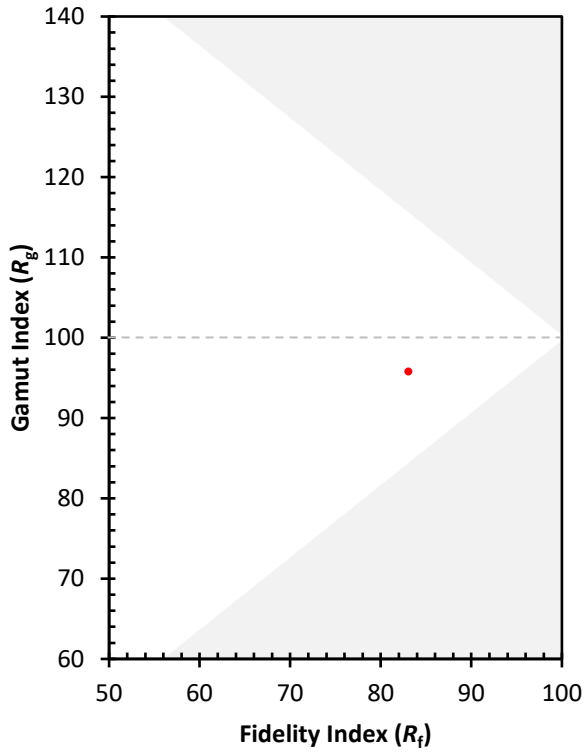
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82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