

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: P1449867

Luminaire Tested: **TWC150_T3_150W_4000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449867
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_4000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 150W
4000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25168 lumens
Efficiency: N/A
Efficacy: 177.4 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

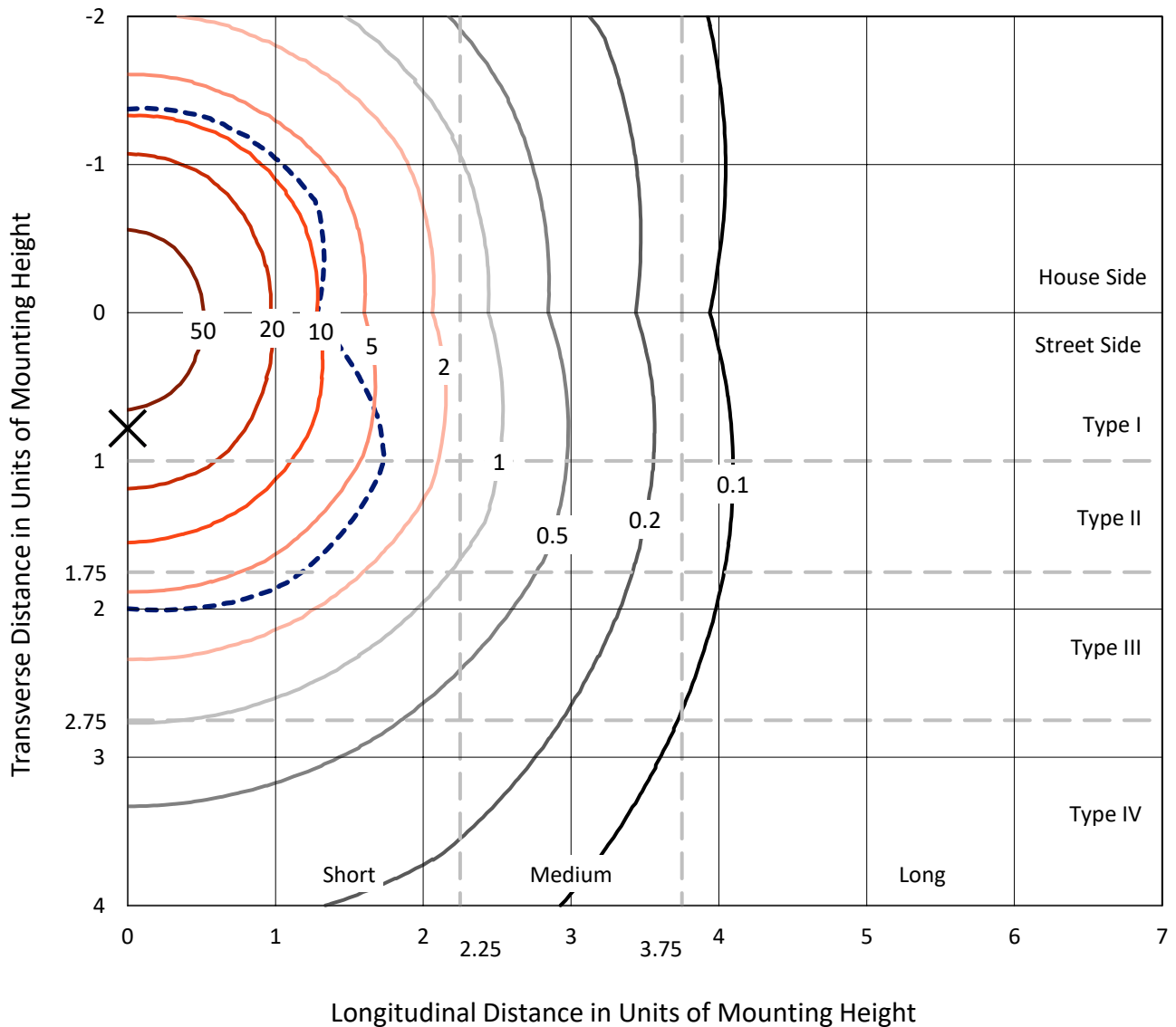
Input Watts (W): 141.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

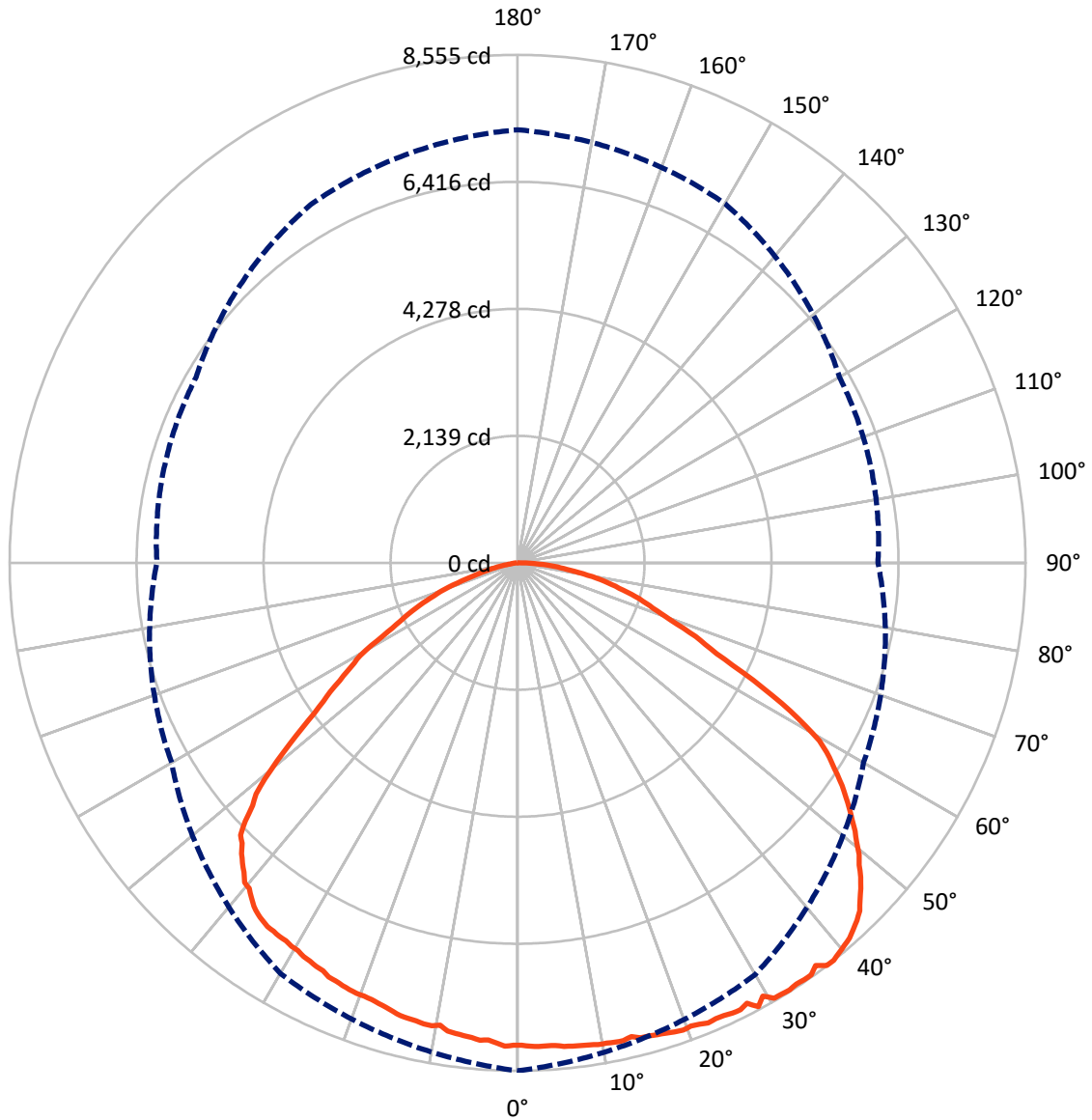
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 81.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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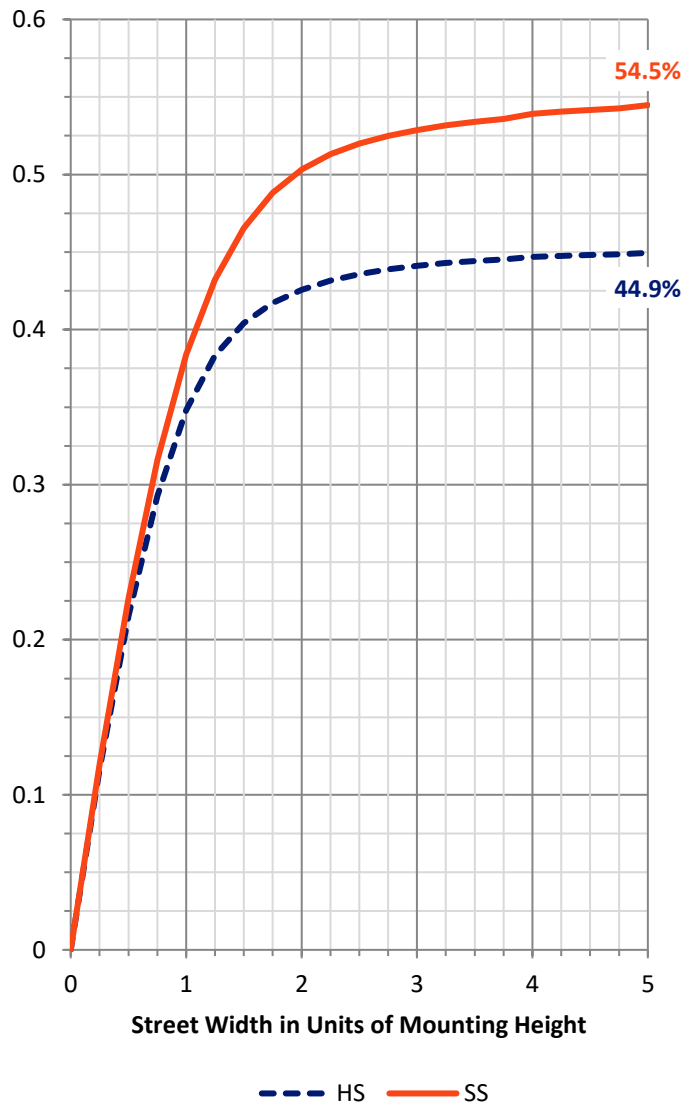
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11365.2	0.0	11365.2
	% Fixture	45.2	0.0	45.2
Street Side	Lumens	13802.8	0.0	13802.8
	% Fixture	54.8	0.0	54.8
Total	Lumens	25168.0	0.0	25168.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.1	3.1
10°-20°	2242.3	8.9
20°-30°	3516.5	14.0
30°-40°	4487.3	17.8
40°-50°	4951.0	19.7
50°-60°	4460.2	17.7
60°-70°	3038.1	12.1
70°-80°	1377.7	5.5
80°-90°	323.7	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°	25168.0	100.0
0°-180°	25168.0	100.0

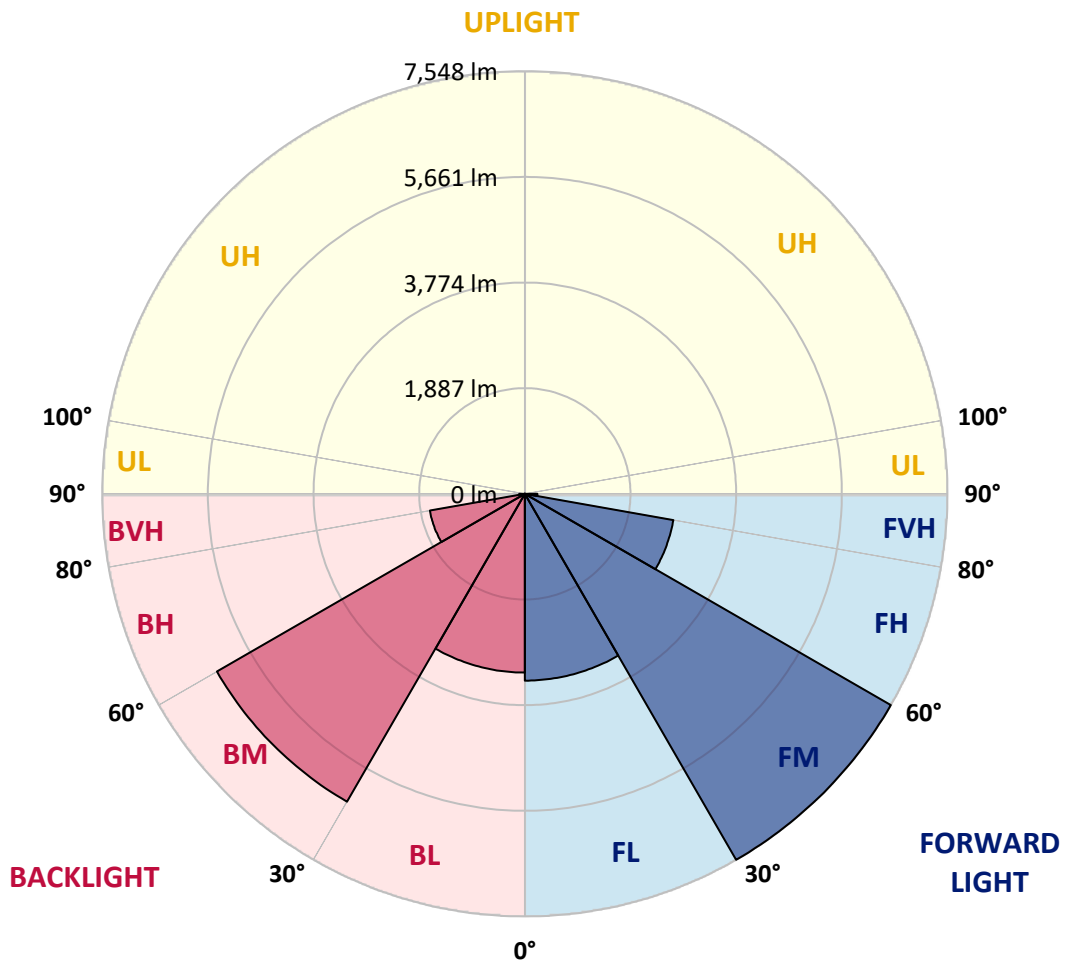


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3337.0	13.3			
FM (30°-60°)	7548.2	30.0			
FH (60°-80°)	2693.9	10.7			G2/5000
FVH (80°-90°)	223.7	0.9			G2/225
BL (0°-30°)	3192.9	12.7	B4/5000		
BM (30°-60°)	6350.3	25.2	B4/8500		
BH (60°-80°)	1722.0	6.8	B3/2500		G3/2500
BVH (80°-90°)	100.0	0.4			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	8126.7	8126.7	8126.7	8126.7	8126.7	8126.7	8126.7	8126.7	8126.7	8126.7	8126.7
1°	8145.4	8172.1	8138.5	8114.2	8121.2	8127.2	8127.2	8099.7	8121.5	8124.5	8133.6
2°	8154.2	8165.4	8179.9	8131.2	8140.0	8106.0	8145.1	8129.4	8112.4	8007.9	8145.1
3°	8149.7	8182.1	8156.0	8108.8	8103.6	8111.2	8095.4	8085.4	8100.0	8116.9	8140.9
4°	8153.3	8151.8	8155.7	8112.1	8099.7	8067.9	8049.4	8076.0	8086.0	8128.5	8124.5
5°	8181.5	8146.3	8121.2	8158.7	8060.9	8043.0	8067.9	8062.4	8070.3	8110.3	8118.4
6°	8191.5	8150.3	8121.2	8068.8	8038.8	8019.7	8033.6	8041.5	8050.3	8151.2	8113.3
7°	8201.8	8155.7	8098.5	8043.9	8018.8	8003.0	8013.6	8045.1	8037.6	8046.3	8101.2
8°	8209.6	8165.1	8085.1	8011.8	7999.4	7987.3	7996.7	8035.4	8005.8	8037.6	8090.0
9°	8227.5	8179.0	8084.2	7983.3	7966.1	7871.2	7974.6	7984.5	7988.8	8011.5	8103.0
10°	8228.1	8172.7	7985.2	7972.4	7938.5	7930.9	7895.2	7955.2	7946.4	7981.8	8084.5
11°	8239.9	8185.1	8048.2	7953.0	7919.4	7905.5	7931.2	7920.6	7949.4	7980.6	8039.1
12°	8242.7	8182.1	8030.3	7937.6	7894.0	7891.8	7923.4	7960.9	7876.4	7901.2	8001.2
13°	8205.7	8172.7	8058.8	7878.8	7856.1	7865.2	7903.1	7880.9	7836.4	7867.3	7982.1
14°	8261.8	8188.1	7989.7	7847.0	7785.8	7859.1	7892.5	7771.0	7803.1	7838.2	7962.4
15°	8271.4	8141.8	7951.8	7790.4	7750.4	7838.8	7878.5	7808.8	7681.0	7796.4	7941.8
16°	8287.2	8267.8	7918.2	7741.6	7727.6	7801.9	7843.7	7802.5	7708.0	7770.7	7920.0
17°	8308.1	8209.0	7883.4	7721.3	7659.8	7770.7	7807.6	7762.2	7670.4	7717.7	7908.8
18°	8329.6	8167.5	7841.6	7715.8	7614.0	7712.8	7781.0	7720.1	7628.0	7647.7	7870.0
19°	8350.5	8177.8	7809.1	7601.3	7572.5	7673.7	7754.9	7708.6	7587.1	7628.0	7835.8
20°	8329.9	8177.8	7778.2	7554.4	7528.9	7634.9	7742.8	7699.2	7524.1	7586.5	7787.6
21°	8352.6	8167.5	7747.6	7497.4	7483.5	7694.3	7743.4	7643.7	7465.9	7505.6	7679.5
22°	8389.0	8058.2	7705.8	7448.0	7423.8	7599.2	7724.9	7614.0	7426.8	7446.8	7719.5
23°	8373.5	8132.4	7655.5	7383.5	7375.0	7582.5	7706.1	7557.7	7359.0	7383.2	7680.4
24°	8377.8	8134.5	7619.8	7314.4	7297.2	7559.5	7677.4	7536.5	7295.9	7325.0	7618.0
25°	8403.2	8129.1	7589.2	7256.9	7218.4	7508.6	7667.7	7495.3	7247.5	7257.8	7568.6
26°	8412.0	8103.0	7435.6	7186.9	7167.8	7470.4	7614.0	7523.8	7166.9	7197.8	7499.5
27°	8365.1	8098.5	7359.3	7129.3	7105.4	7442.0	7597.1	7426.8	7104.8	7122.0	7440.1
28°	8506.8	8089.1	7460.4	7023.3	7036.9	7375.6	7564.1	7387.7	7030.9	7039.0	7383.8
29°	8383.2	8079.1	7328.4	6992.1	6971.8	7357.7	7549.2	7344.4	6973.9	6961.8	7362.6
30°	8512.3	8095.7	7254.4	6857.0	6910.9	7319.6	7507.4	7302.0	6901.8	6886.1	7288.1
31°	8519.0	8093.3	7209.9	6772.8	6842.7	7289.0	7497.1	7261.7	6867.0	6792.7	7219.6
32°	8527.7	8092.4	7143.6	6684.3	6786.1	7225.1	7466.5	7229.3	6779.1	6706.7	7191.1
33°	8508.7	8081.2	7092.4	6598.6	6712.2	7202.3	7465.0	7201.4	6703.4	6586.7	7091.5
34°	8522.6	8053.9	7077.5	6495.9	6622.8	7160.2	7442.0	7172.9	6623.4	6483.7	7019.1
35°	8522.0	8025.4	6886.7	6393.8	6541.3	7128.1	7434.4	7123.0	6520.1	6391.3	6940.6
36°	8436.3	8027.9	6865.1	6291.4	6434.7	7083.0	7398.6	7047.5	6436.2	6281.7	6887.9
37°	8551.7	8007.9	6795.8	6175.0	6342.6	7031.8	7356.2	7014.8	6343.8	6189.9	6808.5
38°	8555.0	8004.5	6728.2	6069.0	6258.3	6984.8	7292.3	6967.5	6252.0	6074.7	6729.1
39°	8512.6	7960.9	6658.2	5955.7	6169.3	6923.9	7205.1	6923.6	6185.9	5979.3	6666.4
40°	8477.7	7941.8	6593.1	5856.6	6098.4	6852.7	7106.6	6862.7	6092.9	5864.8	6590.4
41°	8437.2	7913.4	6527.1	5743.3	6016.0	6782.4	7078.1	6813.3	6005.4	5746.1	6518.3
42°	8372.0	7871.2	6448.0	5609.1	5926.6	6691.9	6955.1	6730.0	5905.7	5625.8	6455.0
43°	8304.8	7850.9	6381.9	5497.6	5835.4	6597.9	6857.0	6645.8	5811.8	5494.9	6382.5
44°	8220.5	7826.4	6292.0	5374.9	5745.7	6506.8	6751.2	6556.1	5720.9	5378.3	6303.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	8088.5	7752.8	6225.6	5245.3	5634.6	6407.7	6620.4	6431.9	5643.0	5247.4	6227.7
46°	7969.7	7662.2	6153.5	5112.3	5532.2	6291.7	6541.0	6327.7	5534.3	5112.3	6157.5
47°	7837.3	7571.9	6077.5	4985.3	5434.9	6151.1	6325.0	6226.8	5415.2	4987.8	6059.3
48°	7683.7	7466.5	5994.8	4848.4	5315.9	6024.5	6052.0	6107.5	5306.8	4845.4	5979.3
49°	7565.0	7346.5	5930.2	4639.1	5196.8	5880.0	5880.9	5899.3	5210.4	4718.1	5921.8
50°	7401.4	7153.6	5857.2	4554.6	5065.0	5716.7	5592.2	5825.4	5068.4	4574.5	5852.1
51°	7262.3	7038.4	5792.7	4417.6	4945.4	5521.6	5248.0	5639.7	4943.2	4441.9	5796.9
52°	7099.3	6879.7	5739.7	4275.2	4811.1	5210.7	4905.1	5426.1	4816.0	4295.8	5732.4
53°	6952.4	6701.0	5680.9	4125.6	4685.4	4907.5	4573.3	5147.7	4731.2	4148.0	5660.6
54°	6792.7	6514.9	5618.5	3974.4	4556.7	4589.4	4257.1	4843.6	4541.2	3969.6	5583.7
55°	6631.3	6371.6	5546.7	3820.8	4422.8	4249.5	4017.1	4506.4	4397.3	3839.3	5531.0
56°	6454.4	6230.5	5460.1	3646.0	4250.1	3955.6	3832.3	4211.6	4266.1	3657.2	5459.8
57°	6277.4	6074.1	5386.1	3486.4	4103.2	3709.0	3593.3	3881.1	4118.9	3500.9	5384.6
58°	6107.2	5885.7	5262.5	3332.1	3955.6	3495.7	3395.5	3635.7	3972.0	3339.7	5336.2
59°	5895.7	5702.7	5131.4	3179.2	3806.9	3280.0	3227.0	3444.5	3823.8	3187.3	5169.5
60°	5572.5	5525.2	4982.3	3010.1	3653.0	3098.0	3075.5	3271.9	3669.9	3025.9	5019.0
61°	5225.0	5362.8	4818.7	2858.6	3498.5	2964.4	2830.5	3061.9	3515.7	2874.1	4860.8
62°	4845.1	5148.6	4622.4	2708.1	3328.8	2810.8	2580.2	2902.9	3352.1	2699.3	4678.8
63°	4437.3	4867.2	4387.0	2563.6	3127.4	2609.6	2378.5	2769.3	3177.9	2553.3	4471.2
64°	4008.3	4539.1	4152.8	2405.4	2885.9	2397.8	2217.9	2575.1	2980.1	2405.7	4226.5
65°	3688.1	4183.4	3907.8	2255.8	2685.7	2256.7	2081.9	2368.8	2764.7	2258.5	3985.0
66°	3449.4	3752.3	3653.6	2102.8	2436.0	2144.9	1944.3	2218.2	2536.3	2101.6	3747.2
67°	3248.2	3389.4	3401.5	1942.5	2202.1	2031.6	1795.0	2111.3	2255.2	1950.4	3479.7
68°	3001.3	3099.8	3118.9	1772.3	1976.4	1905.3	1658.3	1984.0	2034.0	1779.5	3208.2
69°	2750.5	2865.3	2877.4	1612.9	1801.0	1781.9	1507.8	1876.8	1830.1	1631.4	2962.2
70°	2566.6	2670.2	2674.4	1459.9	1665.9	1665.3	1380.2	1753.2	1683.2	1466.3	2732.3
71°	2403.3	2444.8	2497.8	1311.8	1546.6	1547.5	1226.3	1642.3	1558.1	1324.2	2578.4
72°	2271.8	2260.0	2276.1	1151.8	1415.7	1429.6	1064.9	1527.8	1436.0	1172.7	2371.2
73°	2140.3	2117.9	1992.2	1018.5	1315.4	1304.8	909.8	1411.4	1320.0	1028.2	2107.0
74°	1994.3	1990.1	1688.0	884.0	1229.4	1163.9	771.9	1279.4	1226.9	887.6	1790.7
75°	1836.8	1852.5	1378.7	760.1	1138.5	991.6	667.4	1137.0	1149.4	765.9	1484.5
76°	1691.7	1731.7	1184.8	638.6	1057.3	854.3	565.6	974.3	1060.3	653.2	1255.1
77°	1556.6	1601.1	1054.9	534.4	980.6	740.1	476.5	844.6	988.5	538.3	1107.3
78°	1424.5	1470.5	913.1	441.1	907.0	638.6	389.9	718.0	912.2	445.0	974.3
79°	1277.2	1369.6	795.2	361.4	835.5	535.0	303.9	611.7	842.5	366.3	834.0
80°	1121.8	1270.9	661.6	282.0	755.3	455.0	224.8	528.0	769.8	291.4	717.4
81°	963.7	1160.9	552.6	223.3	680.1	374.1	149.4	447.5	693.8	229.0	594.1
82°	835.2	1000.0	475.3	174.2	605.3	248.7	115.1	358.7	615.0	176.0	506.8
83°	731.3	797.1	417.8	129.1	517.4	110.3	86.3	209.0	538.6	136.0	437.2
84°	619.8	621.1	362.9	98.5	417.8	59.7	67.0	88.8	450.2	99.1	386.6
85°	502.9	515.0	313.3	70.9	341.7	41.8	45.1	55.4	361.1	72.1	337.5
86°	372.3	406.9	268.4	48.2	268.1	24.8	26.4	35.4	291.1	49.4	290.5
87°	276.9	292.0	214.8	32.1	158.1	17.0	0.0	20.6	201.2	31.2	251.5
88°	143.9	191.2	123.3	0.0	0.0	13.6	0.0	0.0	0.0	0.0	167.5
89°	0.0	0.0	0.0	0.0	0.0	13.0	0.0	0.0	0.0	0.0	61.8



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CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1449867
 CATALOG NUMBER: TWC150_T3_150W_4000K

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: P1449867
CATALOG NUMBER: TWC150_T3_150W_4000K

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: P1449867
CATALOG NUMBER: TWC150_T3_150W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	8126.7	8126.7
1°	8126.3	8145.4
2°	8138.1	8154.2
3°	8136.0	8149.7
4°	8170.9	8153.3
5°	8167.8	8181.5
6°	8163.6	8191.5
7°	8164.5	8201.8
8°	8163.0	8209.6
9°	8145.7	8227.5
10°	8153.0	8228.1
11°	8189.3	8239.9
12°	8169.3	8242.7
13°	8236.6	8205.7
14°	8164.2	8261.8
15°	8148.4	8271.4
16°	8143.9	8287.2
17°	8143.6	8308.1
18°	8160.6	8329.6
19°	8158.4	8350.5
20°	8159.4	8329.9
21°	8092.1	8352.6
22°	8118.8	8389.0
23°	8110.3	8373.5
24°	8043.9	8377.8
25°	8114.5	8403.2
26°	8145.7	8412.0
27°	8090.6	8365.1
28°	8085.7	8506.8
29°	8097.2	8383.2
30°	8070.0	8512.3
31°	8058.2	8519.0
32°	8074.2	8527.7
33°	8043.6	8508.7
34°	8033.0	8522.6
35°	8013.6	8522.0
36°	7993.6	8436.3
37°	7972.4	8551.7
38°	7986.7	8555.0
39°	7903.7	8512.6
40°	7942.7	8477.7
41°	7911.2	8437.2
42°	7874.3	8372.0
43°	7826.4	8304.8
44°	7874.0	8220.5



REPORT NUMBER: P1449867
CATALOG NUMBER: TWC150_T3_150W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	7740.4	8088.5
46°	7692.8	7969.7
47°	7631.6	7837.3
48°	7531.9	7683.7
49°	7422.0	7565.0
50°	7277.2	7401.4
51°	7131.7	7262.3
52°	6970.9	7099.3
53°	6797.3	6952.4
54°	6631.3	6792.7
55°	6473.4	6631.3
56°	6309.2	6454.4
57°	6163.2	6277.4
58°	5989.3	6107.2
59°	5816.9	5895.7
60°	5636.1	5572.5
61°	5462.8	5225.0
62°	5257.7	4845.1
63°	5072.3	4437.3
64°	4758.4	4008.3
65°	4406.4	3688.1
66°	4033.5	3449.4
67°	3606.0	3248.2
68°	3317.6	3001.3
69°	3040.1	2750.5
70°	2815.9	2566.6
71°	2603.9	2403.3
72°	2376.3	2271.8
73°	2213.0	2140.3
74°	2084.3	1994.3
75°	1956.5	1836.8
76°	1826.5	1691.7
77°	1699.2	1556.6
78°	1579.6	1424.5
79°	1449.6	1277.2
80°	1330.0	1121.8
81°	1250.0	963.7
82°	1128.2	835.2
83°	966.7	731.3
84°	741.6	619.8
85°	596.5	502.9
86°	497.1	372.3
87°	382.9	276.9
88°	275.4	143.9
89°	162.7	0.0



REPORT NUMBER: P1449867
CATALOG NUMBER: TWC150_T3_150W_4000K

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: P1449867
CATALOG NUMBER: TWC150_T3_150W_4000K

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: P1449867
CATALOG NUMBER: TWC150_T3_150W_4000K

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: SP1-2601-659-2

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-4000K

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

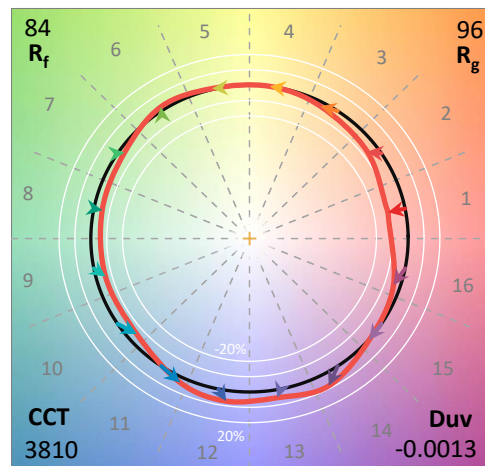
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2601-659-2
 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-4000K**
 Description: Mester Wedge, at T4 beam setting, 24W output, 4000K

Spectral Parameters

CCT (K): 3810
 CIE u': 0.2295
 CIE v': 0.5035
 Duv: -0.0013
 CIE x: 0.3881
 CIE y: 0.3785
 CIE z: 0.2334
 Peak Wavelength (nm): 453
 Dominant Wavelength (nm): 580
 Purity: 30.07368
 Rf: 84.4
 Rg: 96.5

CRI (Ra):	84.5		
R1:	83.7	R9:	15.9
R2:	90.7	R10:	77.2
R3:	95.1	R11:	83.0
R4:	83.6	R12:	62.4
R5:	83.4	R13:	85.6
R6:	86.7	R14:	97.4
R7:	86.3	R15:	77.9
R8:	66.5		



Test Conditions

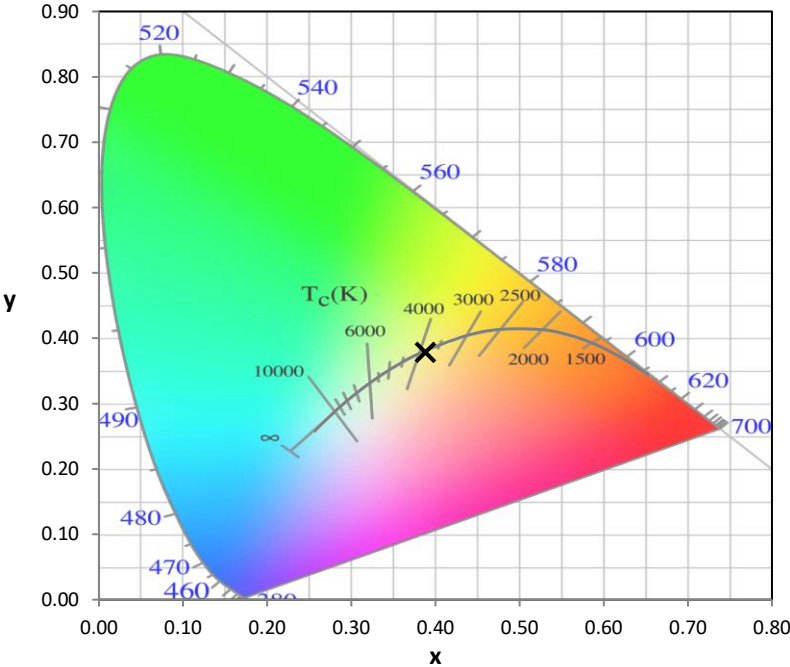
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-2

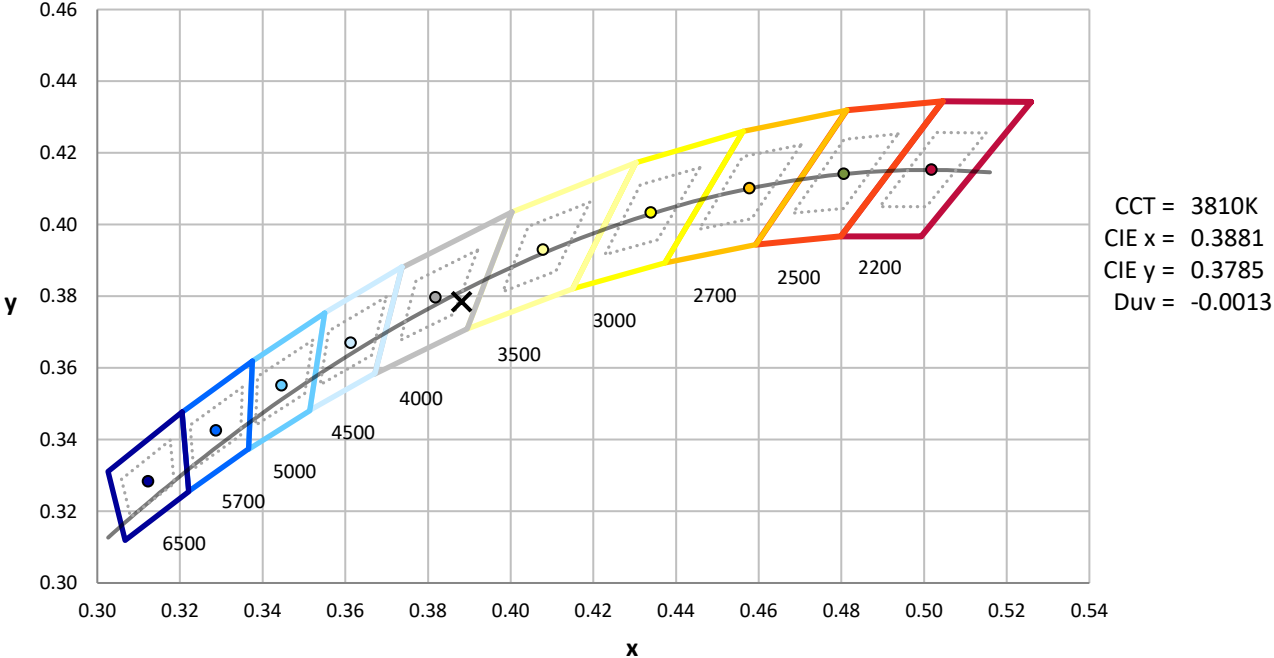
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2601-659-2

CIE 1931 Chromaticity Diagram



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

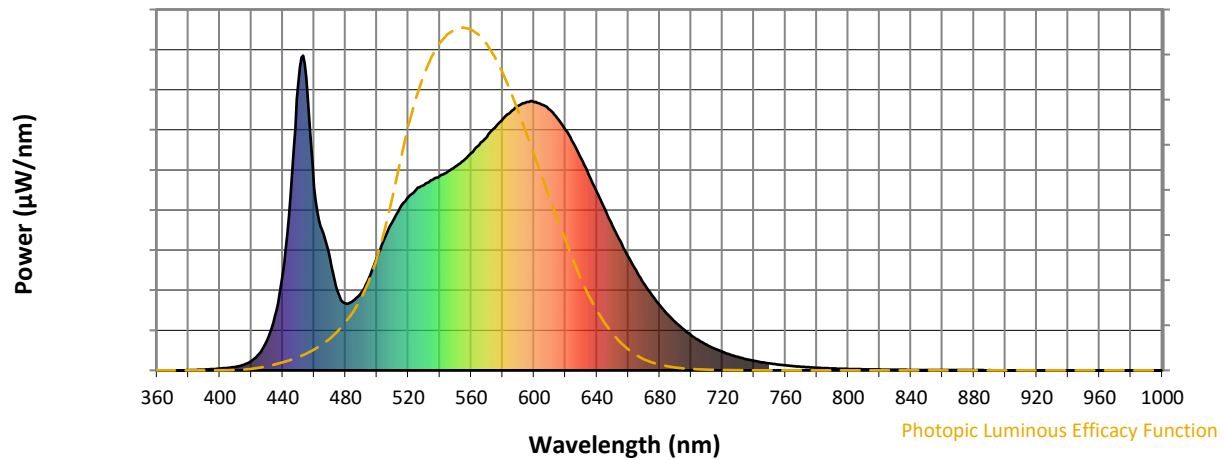


CCT = 3810K
 CIE x = 0.3881
 CIE y = 0.3785
 Duv = -0.0013

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

Photopic Flux vs. Wavelength

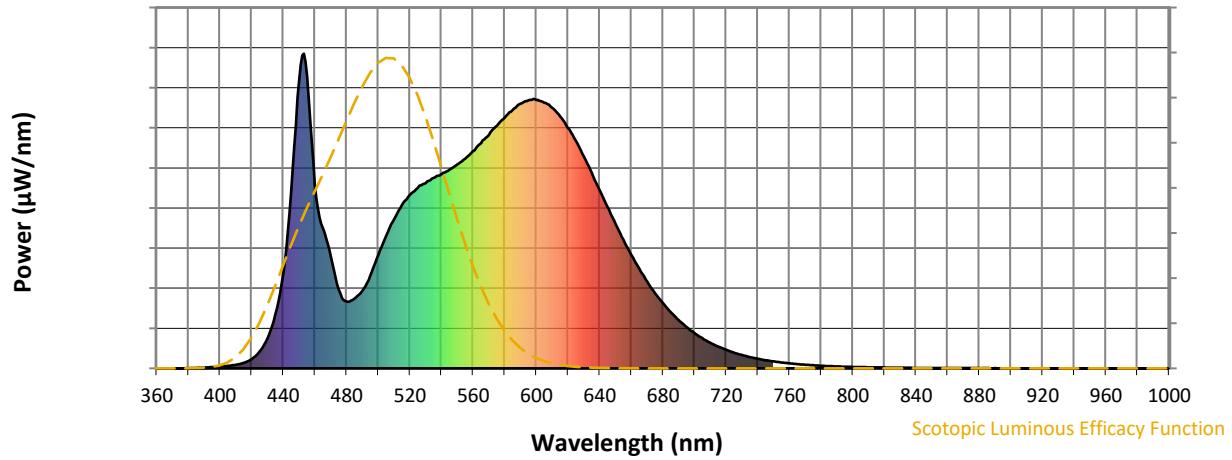


Photopic Lumens: NR

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	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



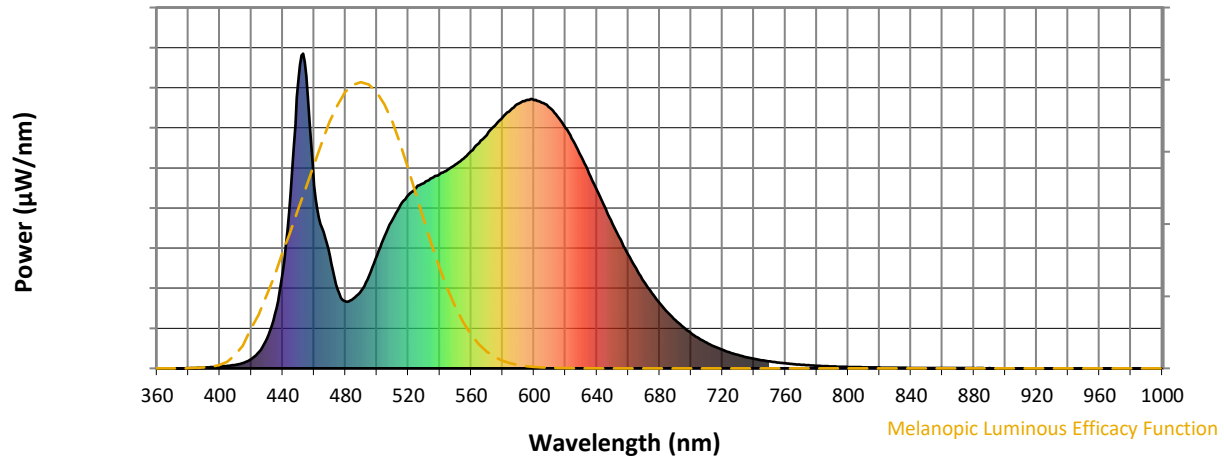
Scotopic Lumens: NR

S/P: 1.64

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	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



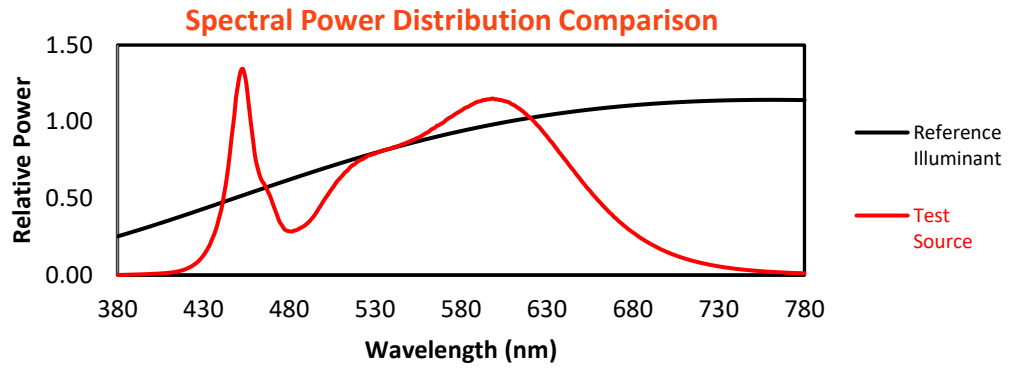
Melanopic Lumens: NR

M/P: 3.35

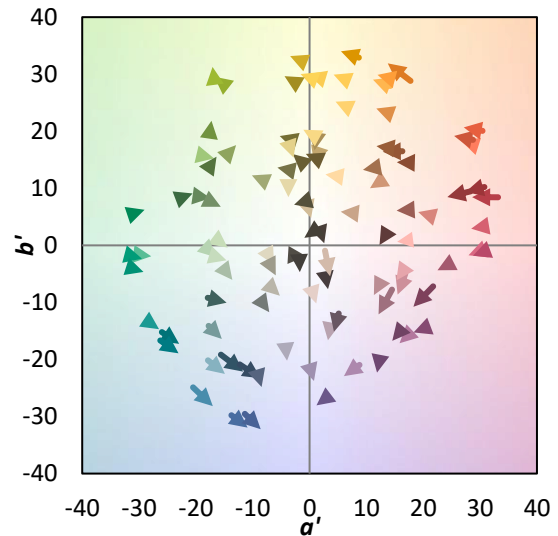
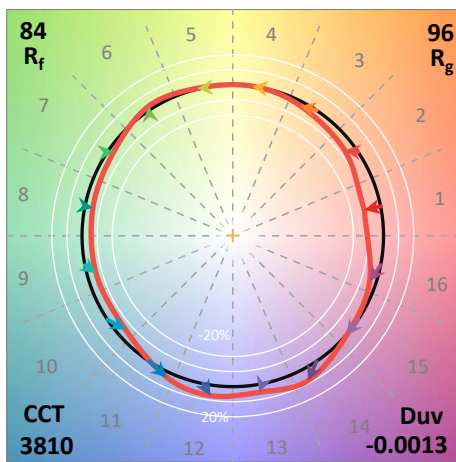
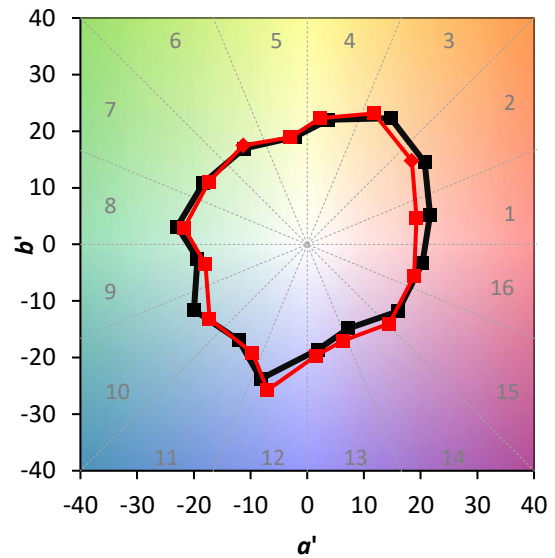
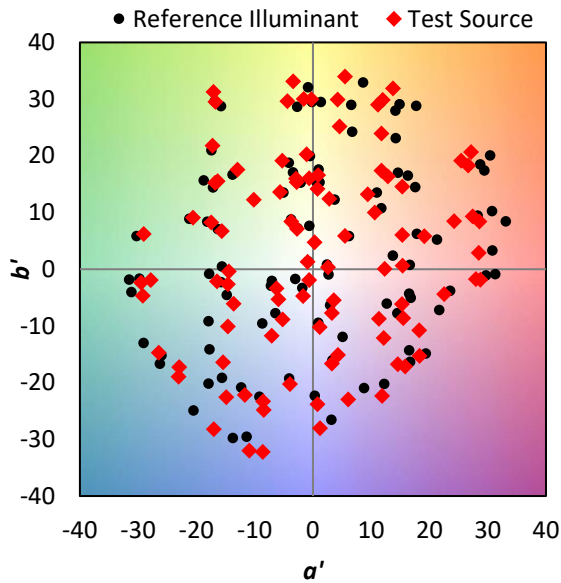
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

Summary

$R_f = 84.4$
 $R_g = 96.5$
 CIE $R_a = 84.5$
 $R_9 = 15.9$

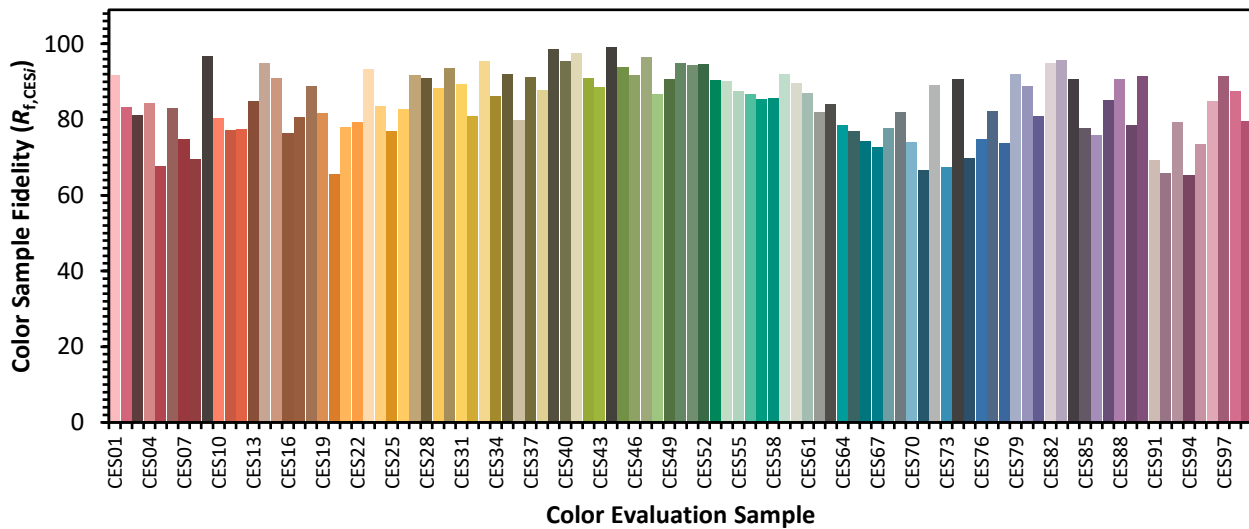


Color Vector Graphics

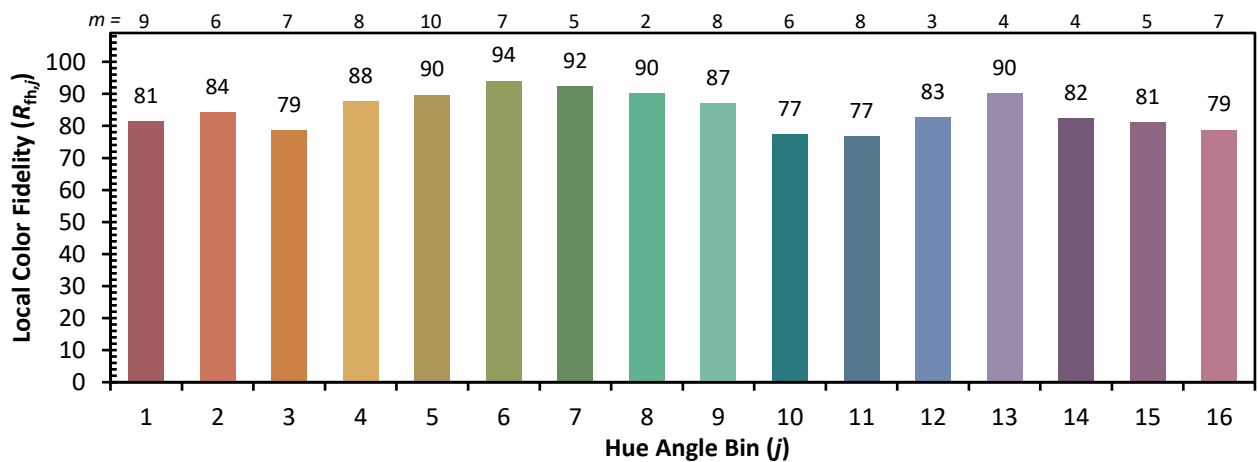
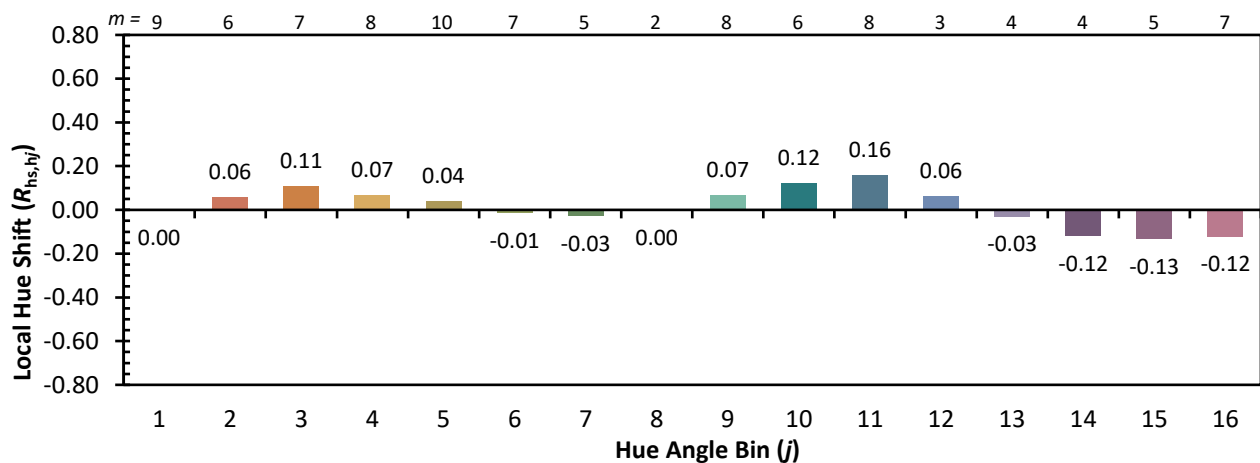
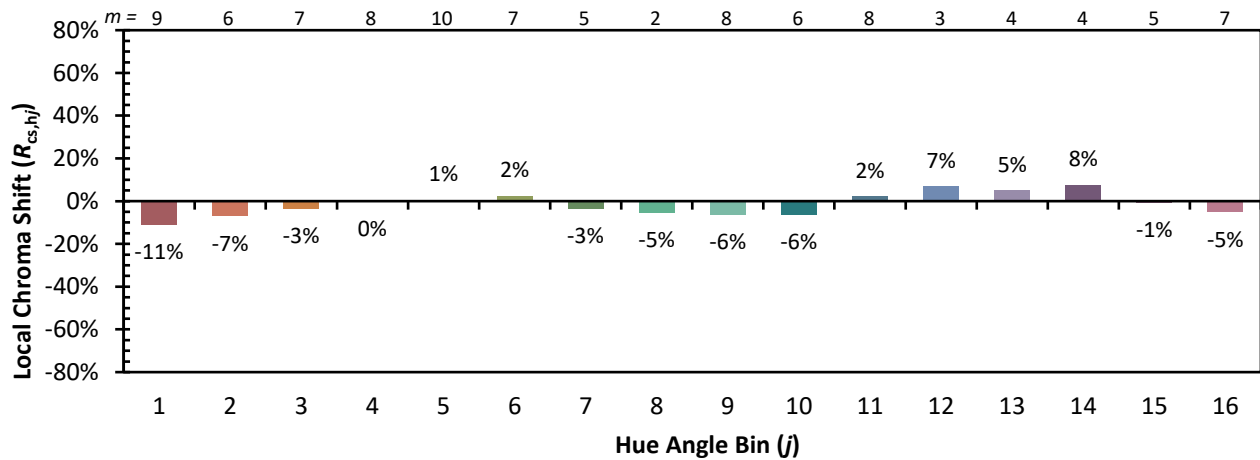


Individual Sample Fidelity Index ($R_{f,i}$)

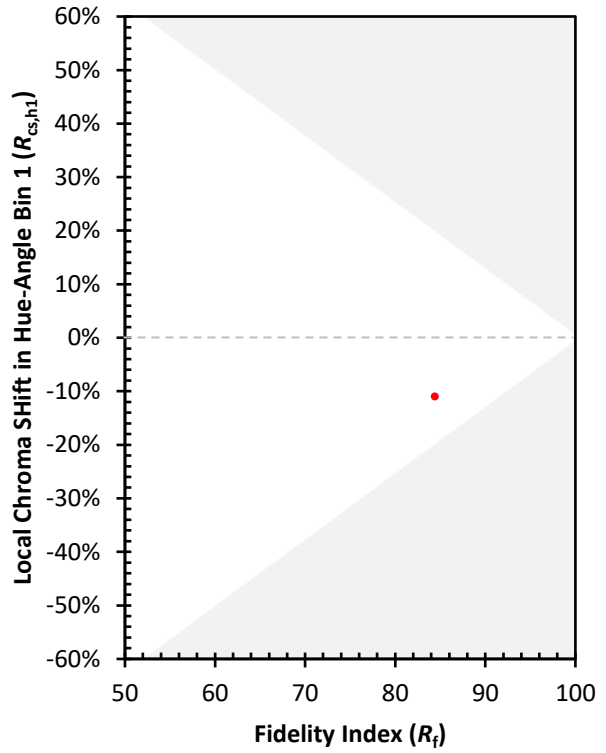
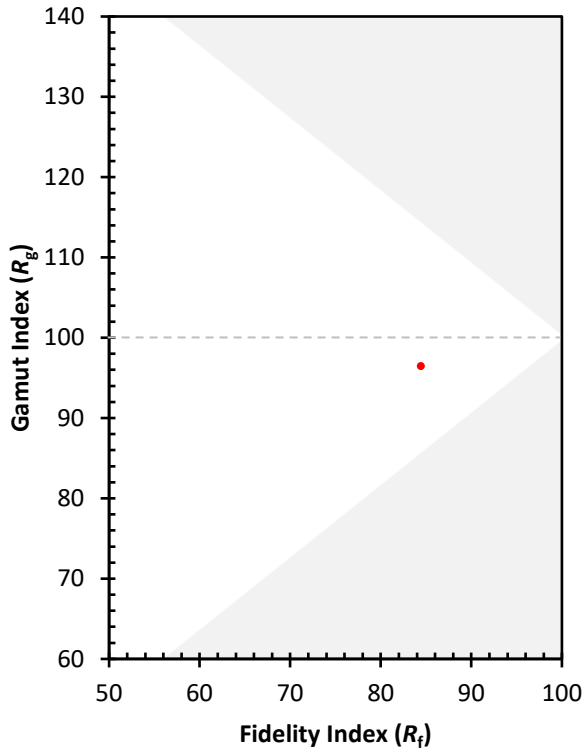
CES01 = 86	CES26 = 83	CES51 = 94	CES76 = 75
CES02 = 62	CES27 = 92	CES52 = 95	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 90	CES78 = 74
CES04 = 70	CES29 = 88	CES54 = 90	CES79 = 92
CES05 = 48	CES30 = 94	CES55 = 88	CES80 = 89
CES06 = 51	CES31 = 89	CES56 = 87	CES81 = 81
CES07 = 41	CES32 = 81	CES57 = 86	CES82 = 95
CES08 = 40	CES33 = 95	CES58 = 86	CES83 = 96
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 91
CES10 = 75	CES35 = 92	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 80	CES61 = 87	CES86 = 76
CES12 = 63	CES37 = 91	CES62 = 82	CES87 = 85
CES13 = 43	CES38 = 88	CES63 = 84	CES88 = 91
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 78
CES15 = 71	CES40 = 96	CES65 = 77	CES90 = 92
CES16 = 47	CES41 = 98	CES66 = 74	CES91 = 69
CES17 = 49	CES42 = 91	CES67 = 73	CES92 = 66
CES18 = 56	CES43 = 89	CES68 = 78	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 65
CES20 = 65	CES45 = 94	CES70 = 74	CES95 = 74
CES21 = 86	CES46 = 92	CES71 = 67	CES96 = 85
CES22 = 78	CES47 = 97	CES72 = 89	CES97 = 91
CES23 = 91	CES48 = 87	CES73 = 68	CES98 = 87
CES24 = 90	CES49 = 91	CES74 = 91	CES99 = 80
CES25 = 71	CES50 = 95	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)