

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: P1449865

Luminaire Tested: **TWC150_T3_120W_5000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TWC150_T3_120W_5000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 120W
5000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20372 lumens
Efficiency: N/A
Efficacy: 176.8 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

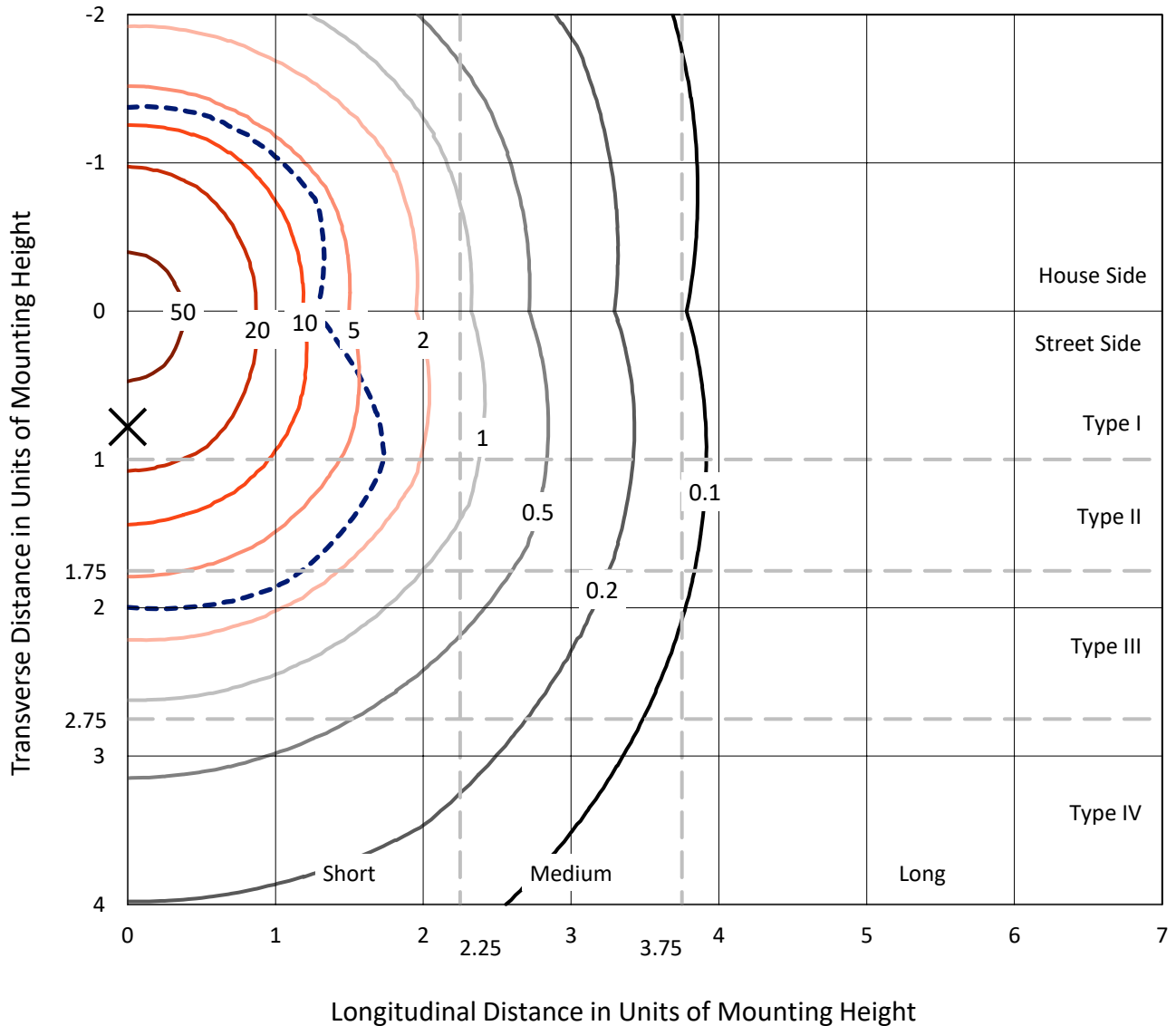
Input Watts (W): 115.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

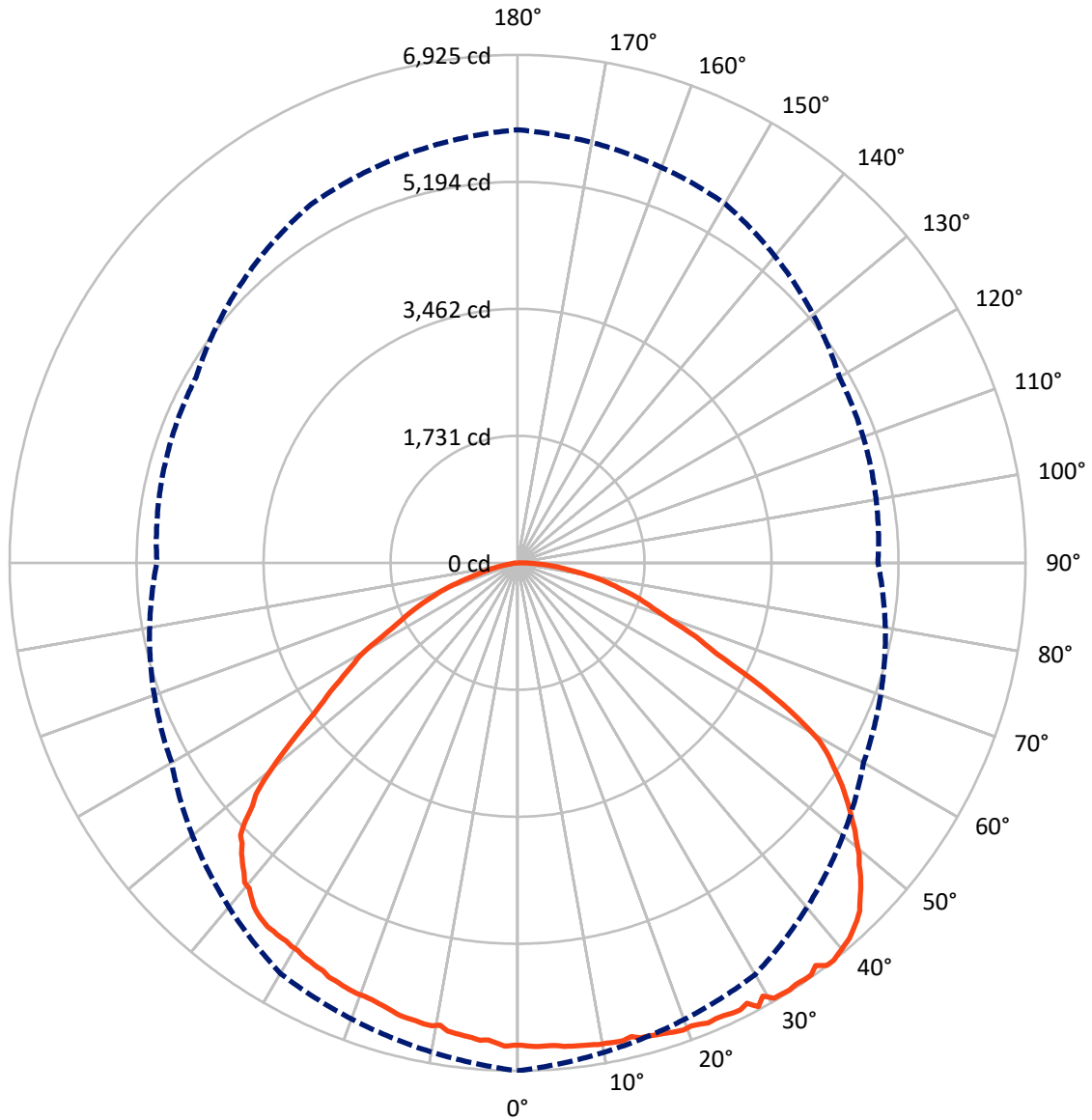
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 65.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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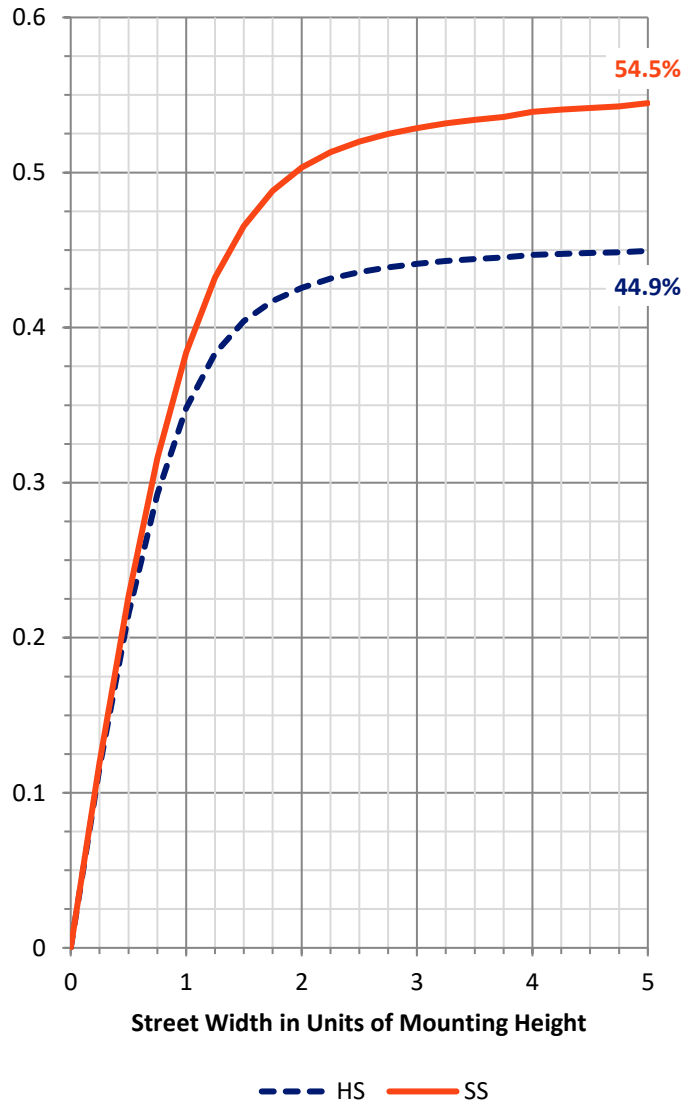
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9199.5	0.0	9199.5
	% Fixture	45.2	0.0	45.2
Street Side	Lumens	11172.5	0.0	11172.5
	% Fixture	54.8	0.0	54.8
Total	Lumens	20372.0	0.0	20372.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.2	3.1
10°-20°	1815.0	8.9
20°-30°	2846.4	14.0
30°-40°	3632.2	17.8
40°-50°	4007.6	19.7
50°-60°	3610.2	17.7
60°-70°	2459.2	12.1
70°-80°	1115.1	5.5
80°-90°	262.0	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°	20372.0	100.0
0°-180°	20372.0	100.0

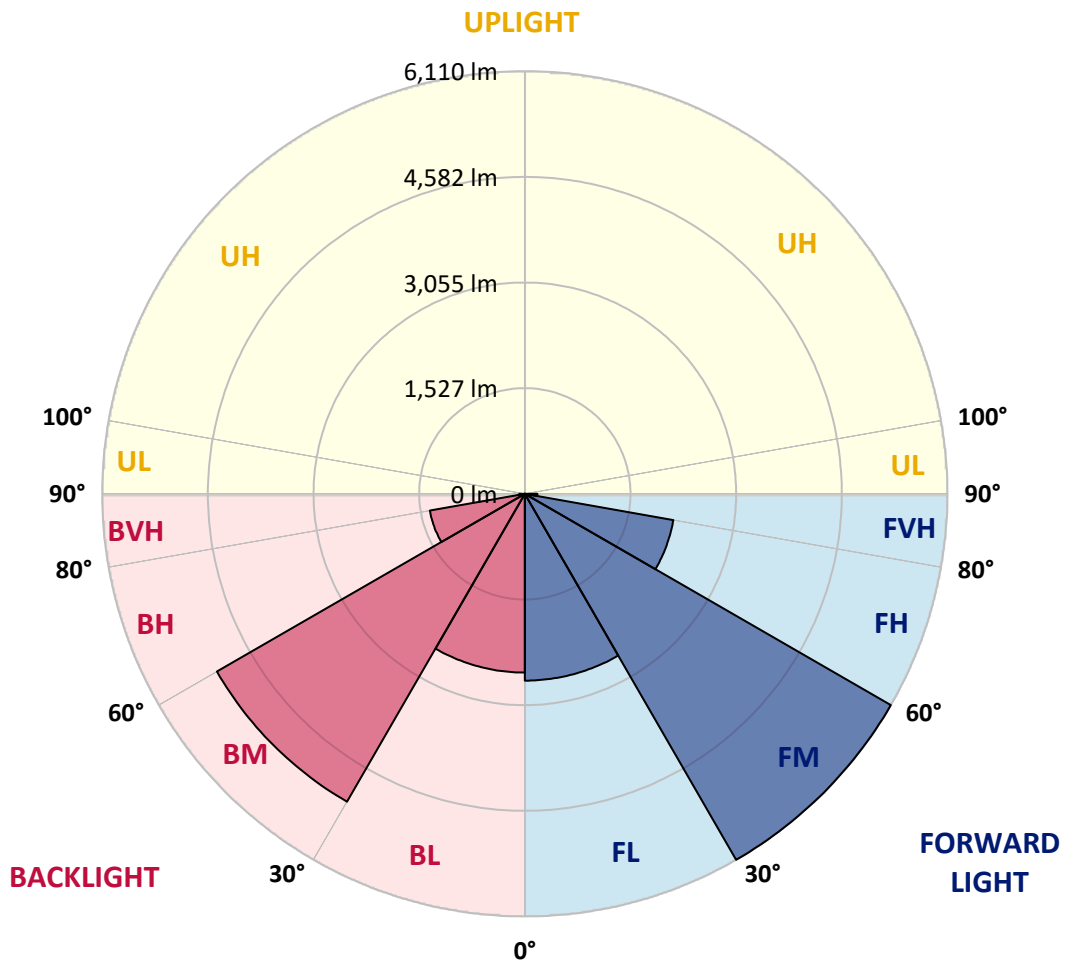


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2701.1	13.3			
FM	(30°-60°)	6109.9	30.0			
FH	(60°-80°)	2180.5	10.7			G2/5000
FVH	(80°-90°)	181.1	0.9			G2/225
BL	(0°-30°)	2584.5	12.7	B4/5000		
BM	(30°-60°)	5140.2	25.2	B4/8500		
BH	(60°-80°)	1393.8	6.8	B3/2500		G3/2500
BVH	(80°-90°)	81.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	6578.1	6578.1	6578.1	6578.1	6578.1	6578.1	6578.1	6578.1	6578.1	6578.1	6578.1
1°	6593.2	6614.8	6587.6	6568.0	6573.6	6578.5	6578.5	6556.2	6573.9	6576.3	6583.7
2°	6600.3	6609.4	6621.2	6581.7	6588.8	6561.4	6593.0	6580.2	6566.5	6481.9	6593.0
3°	6596.7	6622.9	6601.8	6563.6	6559.4	6565.5	6552.8	6544.7	6556.4	6570.2	6589.6
4°	6599.6	6598.4	6601.6	6566.3	6556.2	6530.5	6515.5	6537.1	6545.2	6579.5	6576.3
5°	6622.4	6594.0	6573.6	6604.0	6524.8	6510.3	6530.5	6526.0	6532.4	6564.8	6571.4
6°	6630.5	6597.2	6573.6	6531.2	6506.9	6491.5	6502.7	6509.1	6516.2	6597.9	6567.2
7°	6638.8	6601.6	6555.2	6511.1	6490.7	6478.0	6486.6	6512.1	6505.9	6513.0	6557.4
8°	6645.2	6609.2	6544.4	6485.1	6475.0	6465.2	6472.8	6504.2	6480.2	6505.9	6548.4
9°	6659.7	6620.4	6543.7	6462.0	6448.1	6371.3	6454.9	6463.0	6466.4	6484.8	6558.9
10°	6660.2	6615.3	6463.5	6453.2	6425.7	6419.6	6390.7	6439.2	6432.1	6460.8	6543.9
11°	6669.7	6625.4	6514.5	6437.5	6410.3	6399.0	6419.9	6411.3	6434.6	6459.8	6507.2
12°	6671.9	6622.9	6500.0	6425.0	6389.7	6388.0	6413.5	6443.9	6375.5	6395.6	6476.5
13°	6642.0	6615.3	6523.1	6377.4	6359.0	6366.4	6397.1	6379.2	6343.1	6368.1	6461.1
14°	6687.4	6627.8	6467.2	6351.7	6302.2	6361.5	6388.5	6290.1	6316.1	6344.6	6445.1
15°	6695.2	6590.3	6436.5	6305.8	6273.5	6345.1	6377.2	6320.8	6217.3	6310.7	6428.4
16°	6708.0	6692.3	6409.3	6266.4	6255.1	6315.1	6349.0	6315.6	6239.1	6289.9	6410.8
17°	6724.9	6644.7	6381.1	6249.9	6200.1	6289.9	6319.8	6283.0	6208.7	6247.0	6401.7
18°	6742.3	6611.1	6347.3	6245.5	6163.1	6243.1	6298.2	6248.9	6174.4	6190.3	6370.3
19°	6759.2	6619.5	6321.0	6152.8	6129.5	6211.4	6277.1	6239.6	6141.3	6174.4	6342.6
20°	6742.6	6619.5	6296.0	6114.8	6094.2	6180.0	6267.3	6232.0	6090.3	6140.8	6303.6
21°	6761.0	6611.1	6271.3	6068.7	6057.4	6228.1	6267.8	6187.1	6043.2	6075.3	6216.1
22°	6790.4	6522.6	6237.4	6028.7	6009.1	6151.1	6252.9	6163.1	6011.6	6027.8	6248.4
23°	6777.9	6582.7	6196.7	5976.5	5969.6	6137.6	6237.7	6117.5	5956.6	5976.3	6216.8
24°	6781.3	6584.4	6167.8	5920.6	5906.6	6119.0	6214.4	6100.3	5905.6	5929.2	6166.3
25°	6801.9	6580.0	6143.0	5874.0	5842.9	6077.8	6206.5	6067.0	5866.4	5874.7	6126.3
26°	6809.0	6558.9	6018.7	5817.4	5801.9	6046.9	6163.1	6090.0	5801.2	5826.2	6070.4
27°	6771.0	6555.2	5956.9	5770.8	5751.4	6023.8	6149.4	6011.6	5750.9	5764.9	6022.4
28°	6885.8	6547.6	6038.8	5684.9	5696.0	5970.1	6122.7	5979.9	5691.1	5697.7	5976.7
29°	6785.7	6539.5	5931.9	5659.7	5643.2	5955.7	6110.6	5944.9	5645.0	5635.2	5959.6
30°	6890.2	6553.0	5872.0	5550.3	5594.0	5924.8	6076.8	5910.5	5586.6	5573.8	5899.3
31°	6895.6	6551.0	5836.0	5482.1	5538.8	5900.0	6068.5	5877.9	5558.4	5498.3	5843.8
32°	6902.7	6550.3	5782.3	5410.5	5492.9	5848.3	6043.7	5851.7	5487.3	5428.7	5820.8
33°	6887.2	6541.2	5740.8	5341.1	5433.1	5829.9	6042.5	5829.1	5426.0	5331.6	5740.1
34°	6898.5	6519.2	5728.8	5258.0	5360.8	5795.8	6023.8	5806.1	5361.2	5248.2	5681.5
35°	6898.0	6496.1	5574.3	5175.4	5294.8	5769.8	6017.7	5765.6	5277.6	5173.4	5618.0
36°	6828.6	6498.1	5556.9	5092.5	5208.5	5733.2	5988.8	5704.6	5209.7	5084.6	5575.3
37°	6922.1	6481.9	5500.8	4998.3	5133.9	5691.8	5954.4	5678.1	5134.9	5010.3	5511.1
38°	6924.8	6479.2	5446.1	4912.5	5065.8	5653.8	5902.7	5639.8	5060.6	4917.1	5446.8
39°	6890.4	6443.9	5389.4	4820.8	4993.7	5604.5	5832.1	5604.3	5007.1	4839.9	5396.1
40°	6862.2	6428.4	5336.7	4740.6	4936.3	5546.9	5752.4	5555.0	4931.9	4747.2	5334.5
41°	6829.4	6405.4	5283.3	4648.9	4869.6	5490.0	5729.3	5515.0	4861.0	4651.1	5276.2
42°	6776.7	6371.3	5219.3	4540.2	4797.2	5416.7	5629.8	5447.6	4780.3	4553.7	5224.9
43°	6722.2	6354.9	5165.8	4450.0	4723.4	5340.6	5550.3	5379.4	4704.3	4447.8	5166.3
44°	6654.0	6335.0	5093.0	4350.7	4650.8	5266.8	5464.7	5306.8	4630.7	4353.4	5102.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	6547.1	6275.4	5039.3	4245.7	4560.8	5186.6	5358.8	5206.3	4567.7	4247.5	5041.0
46°	6451.0	6202.1	4980.9	4138.1	4478.0	5092.7	5294.5	5121.9	4479.7	4138.1	4984.1
47°	6343.8	6129.0	4919.4	4035.3	4399.2	4978.9	5119.7	5040.3	4383.3	4037.3	4904.6
48°	6219.5	6043.7	4852.4	3924.5	4302.9	4876.4	4898.8	4943.6	4295.5	3922.0	4839.9
49°	6123.4	5946.6	4800.2	3755.0	4206.5	4759.5	4760.2	4775.2	4217.5	3819.1	4793.3
50°	5991.0	5790.4	4741.1	3686.6	4099.8	4627.3	4526.5	4715.3	4102.5	3702.8	4736.9
51°	5878.4	5697.2	4688.8	3575.8	4003.0	4469.4	4247.9	4565.0	4001.3	3595.4	4692.3
52°	5746.5	5568.7	4645.9	3460.5	3894.3	4217.8	3970.4	4392.1	3898.3	3477.2	4640.0
53°	5627.6	5424.0	4598.4	3339.4	3792.6	3972.3	3701.8	4166.8	3829.6	3357.6	4581.9
54°	5498.3	5273.5	4547.8	3217.0	3688.4	3714.8	3445.8	3920.6	3675.8	3213.1	4519.6
55°	5367.6	5157.5	4489.7	3092.7	3580.0	3439.7	3251.6	3647.6	3559.4	3107.7	4477.0
56°	5224.4	5043.2	4419.6	2951.2	3440.2	3201.8	3102.0	3409.0	3453.2	2960.3	4419.4
57°	5081.2	4916.7	4359.8	2822.0	3321.3	3002.2	2908.6	3141.5	3334.0	2833.8	4358.5
58°	4943.4	4764.1	4259.7	2697.2	3201.8	2829.6	2748.4	2942.9	3215.1	2703.3	4319.3
59°	4772.2	4616.0	4153.5	2573.3	3081.4	2655.0	2612.1	2788.2	3095.2	2580.0	4184.4
60°	4510.6	4472.3	4032.9	2436.5	2956.9	2507.6	2489.5	2648.4	2970.6	2449.3	4062.6
61°	4229.3	4340.9	3900.5	2313.9	2831.8	2399.5	2291.1	2478.4	2845.8	2326.4	3934.6
62°	3921.8	4167.5	3741.6	2192.0	2694.5	2275.2	2088.5	2349.7	2713.4	2184.9	3787.2
63°	3591.7	3939.7	3551.0	2075.1	2531.4	2112.3	1925.2	2241.6	2572.4	2066.7	3619.2
64°	3244.5	3674.1	3361.5	1947.0	2336.0	1940.9	1795.3	2084.4	2412.2	1947.3	3421.1
65°	2985.3	3386.2	3163.1	1825.9	2173.9	1826.6	1685.2	1917.4	2237.9	1828.1	3225.6
66°	2792.1	3037.3	2957.4	1702.1	1971.8	1736.2	1573.8	1795.5	2053.0	1701.1	3033.1
67°	2629.3	2743.5	2753.3	1572.3	1782.5	1644.4	1452.9	1708.9	1825.4	1578.7	2816.6
68°	2429.4	2509.1	2524.5	1434.5	1599.8	1542.2	1342.3	1605.9	1646.4	1440.4	2596.9
69°	2226.4	2319.3	2329.1	1305.6	1457.8	1442.4	1220.5	1519.1	1481.4	1320.5	2397.8
70°	2077.5	2161.4	2164.8	1181.7	1348.5	1348.0	1117.2	1419.1	1362.4	1186.9	2211.6
71°	1945.3	1978.9	2021.8	1061.8	1251.8	1252.6	992.6	1329.3	1261.2	1071.9	2087.1
72°	1838.9	1829.3	1842.3	932.3	1145.9	1157.2	862.0	1236.6	1162.3	949.2	1919.3
73°	1732.5	1714.3	1612.6	824.4	1064.7	1056.2	736.4	1142.5	1068.4	832.3	1705.5
74°	1614.3	1610.9	1366.4	715.6	995.1	942.1	624.8	1035.6	993.1	718.5	1449.5
75°	1486.8	1499.5	1116.0	615.3	921.5	802.6	540.2	920.3	930.4	619.9	1201.6
76°	1369.3	1401.7	959.1	516.9	855.8	691.5	457.8	788.6	858.3	528.7	1015.9
77°	1259.9	1296.0	853.9	432.6	793.8	599.1	385.7	683.7	800.2	435.8	896.3
78°	1153.0	1190.3	739.1	357.0	734.2	516.9	315.6	581.2	738.4	360.2	788.6
79°	1033.8	1108.6	643.7	292.5	676.3	433.1	246.0	495.1	682.0	296.5	675.1
80°	908.0	1028.7	535.6	228.3	611.3	368.3	182.0	427.4	623.1	235.9	580.7
81°	780.0	939.7	447.3	180.7	550.5	302.8	120.9	362.2	561.6	185.4	480.9
82°	676.1	809.5	384.7	141.0	490.0	201.3	93.2	290.3	497.8	142.5	410.3
83°	592.0	645.2	338.2	104.5	418.8	89.3	69.9	169.2	436.0	110.1	353.9
84°	501.7	502.7	293.8	79.7	338.2	48.3	54.2	71.8	364.4	80.2	312.9
85°	407.1	416.9	253.6	57.4	276.6	33.8	36.5	44.9	292.3	58.4	273.2
86°	301.4	329.3	217.3	39.0	217.0	20.1	21.3	28.7	235.7	40.0	235.2
87°	224.1	236.4	173.9	26.0	128.0	13.7	0.0	16.7	162.8	25.3	203.5
88°	116.5	154.7	99.8	0.0	0.0	11.0	0.0	0.0	0.0	0.0	135.6
89°	0.0	0.0	0.0	0.0	0.0	10.5	0.0	0.0	0.0	0.0	50.0



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 CATALOG NUMBER: TWC150_T3_120W_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: P1449865
 CATALOG NUMBER: TWC150_T3_120W_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: P1449865
CATALOG NUMBER: TWC150_T3_120W_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: P1449865
CATALOG NUMBER: TWC150_T3_120W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	6578.1	6578.1
1°	6577.8	6593.2
2°	6587.3	6600.3
3°	6585.6	6596.7
4°	6613.8	6599.6
5°	6611.4	6622.4
6°	6607.9	6630.5
7°	6608.7	6638.8
8°	6607.5	6645.2
9°	6593.5	6659.7
10°	6599.4	6660.2
11°	6628.8	6669.7
12°	6612.6	6671.9
13°	6667.0	6642.0
14°	6608.4	6687.4
15°	6595.7	6695.2
16°	6592.0	6708.0
17°	6591.8	6724.9
18°	6605.5	6742.3
19°	6603.8	6759.2
20°	6604.5	6742.6
21°	6550.1	6761.0
22°	6571.7	6790.4
23°	6564.8	6777.9
24°	6511.1	6781.3
25°	6568.2	6801.9
26°	6593.5	6809.0
27°	6548.8	6771.0
28°	6544.9	6885.8
29°	6554.2	6785.7
30°	6532.2	6890.2
31°	6522.6	6895.6
32°	6535.6	6902.7
33°	6510.8	6887.2
34°	6502.3	6898.5
35°	6486.6	6898.0
36°	6470.4	6828.6
37°	6453.2	6922.1
38°	6464.7	6924.8
39°	6397.5	6890.4
40°	6429.2	6862.2
41°	6403.7	6829.4
42°	6373.8	6776.7
43°	6335.0	6722.2
44°	6373.5	6654.0



REPORT NUMBER: P1449865
CATALOG NUMBER: TWC150_T3_120W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	6265.4	6547.1
46°	6226.9	6451.0
47°	6177.3	6343.8
48°	6096.7	6219.5
49°	6007.6	6123.4
50°	5890.4	5991.0
51°	5772.7	5878.4
52°	5642.5	5746.5
53°	5502.0	5627.6
54°	5367.6	5498.3
55°	5239.9	5367.6
56°	5107.0	5224.4
57°	4988.8	5081.2
58°	4848.0	4943.4
59°	4708.5	4772.2
60°	4562.1	4510.6
61°	4421.8	4229.3
62°	4255.8	3921.8
63°	4105.7	3591.7
64°	3851.7	3244.5
65°	3566.7	2985.3
66°	3264.9	2792.1
67°	2918.9	2629.3
68°	2685.4	2429.4
69°	2460.8	2226.4
70°	2279.3	2077.5
71°	2107.7	1945.3
72°	1923.5	1838.9
73°	1791.3	1732.5
74°	1687.1	1614.3
75°	1583.6	1486.8
76°	1478.4	1369.3
77°	1375.4	1259.9
78°	1278.6	1153.0
79°	1173.4	1033.8
80°	1076.5	908.0
81°	1011.8	780.0
82°	913.2	676.1
83°	782.5	592.0
84°	600.3	501.7
85°	482.8	407.1
86°	402.4	301.4
87°	310.0	224.1
88°	222.9	116.5
89°	131.7	0.0



REPORT NUMBER: P1449865
CATALOG NUMBER: TWC150_T3_120W_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: P1449865
CATALOG NUMBER: TWC150_T3_120W_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: P1449865
CATALOG NUMBER: TWC150_T3_120W_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

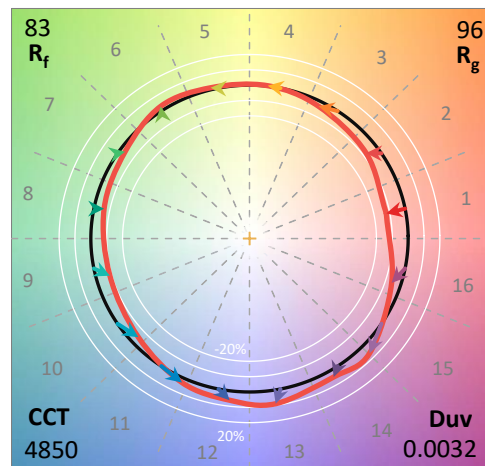
Test Information

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_f: 83.1
 R_g: 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

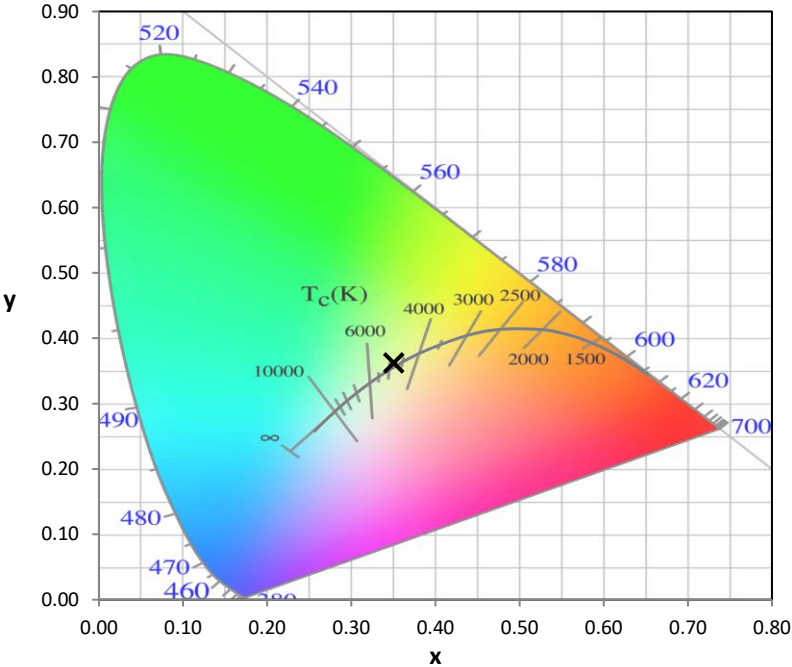
Stabilization Time: 25M
 Operation Time: 1H 25M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

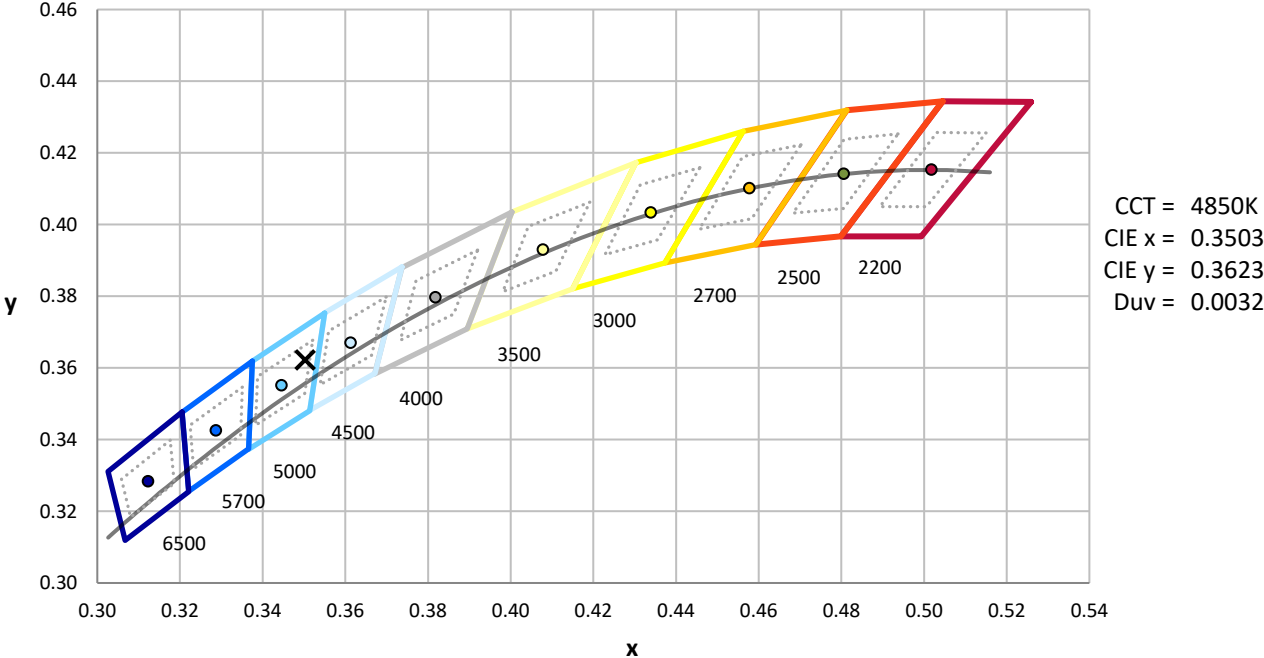
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



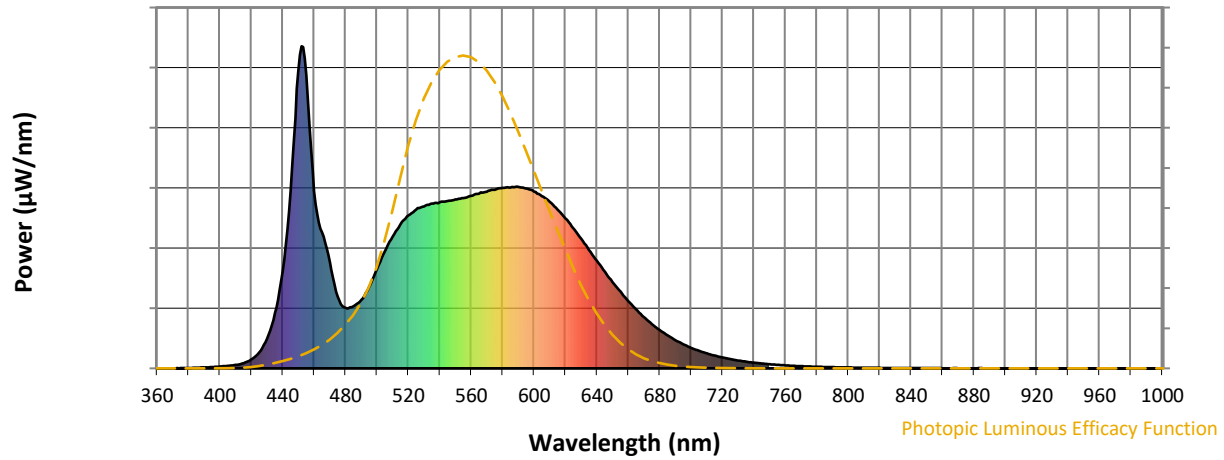
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

Photopic Flux vs. Wavelength

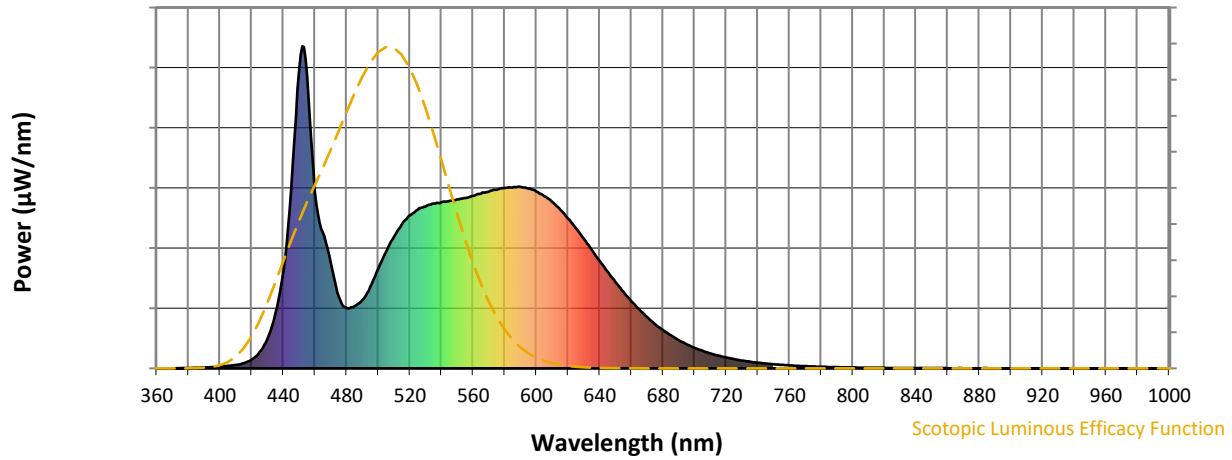


Photopic Lumens: NR

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

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Scotopic Flux vs. Wavelength



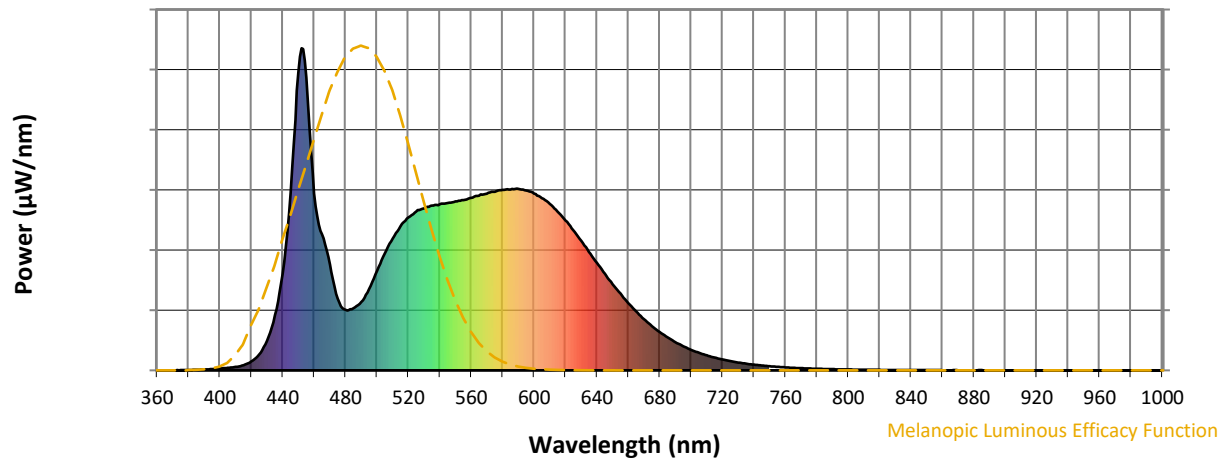
Scotopic Lumens: NR

S/P: 1.9

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

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Melanopic Flux vs. Wavelength



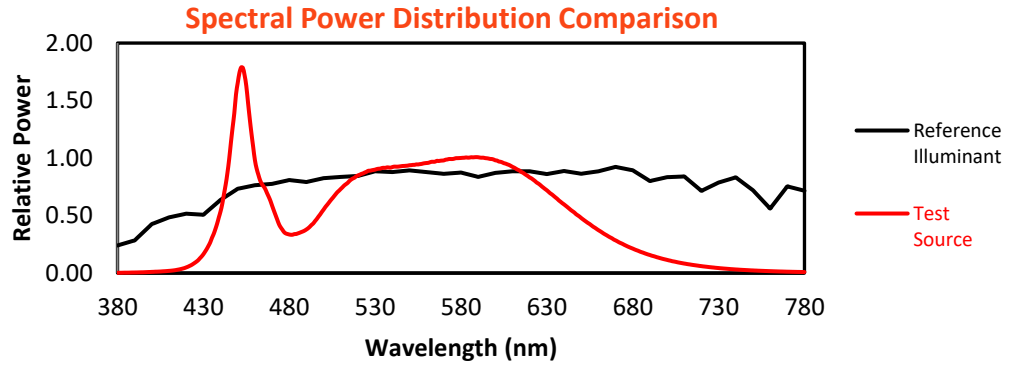
Melanopic Lumens: NR

M/P: 4

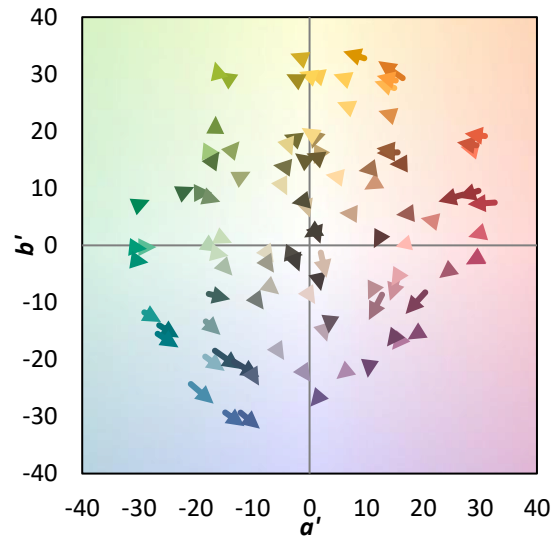
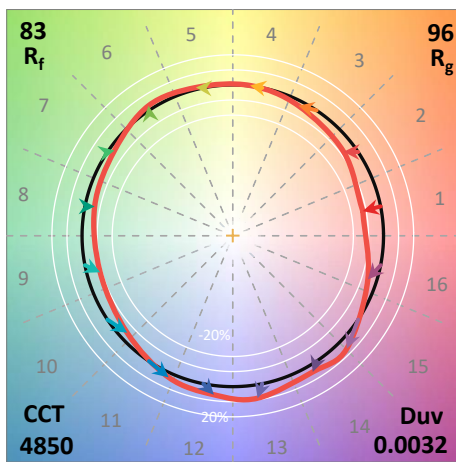
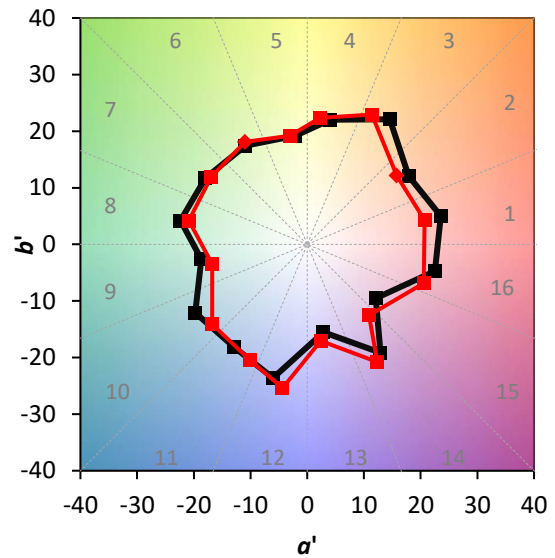
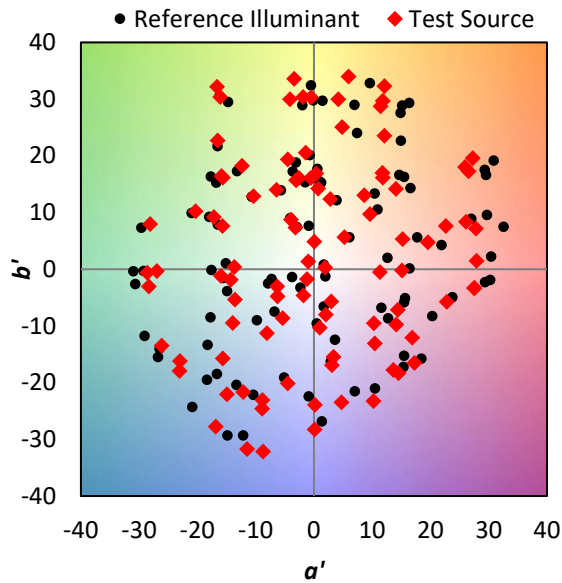
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	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

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

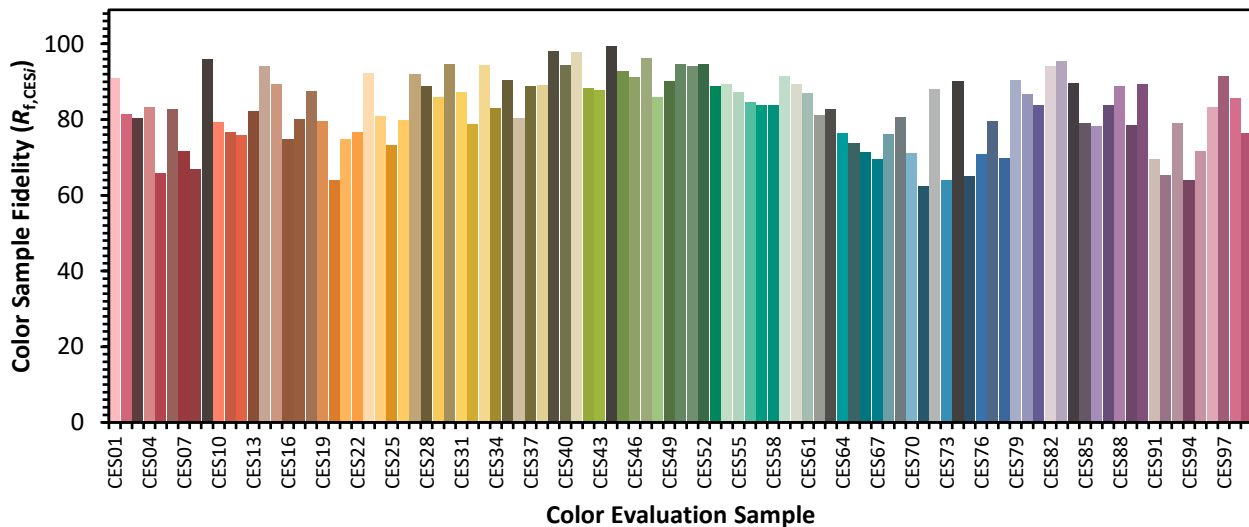


Color Vector Graphics

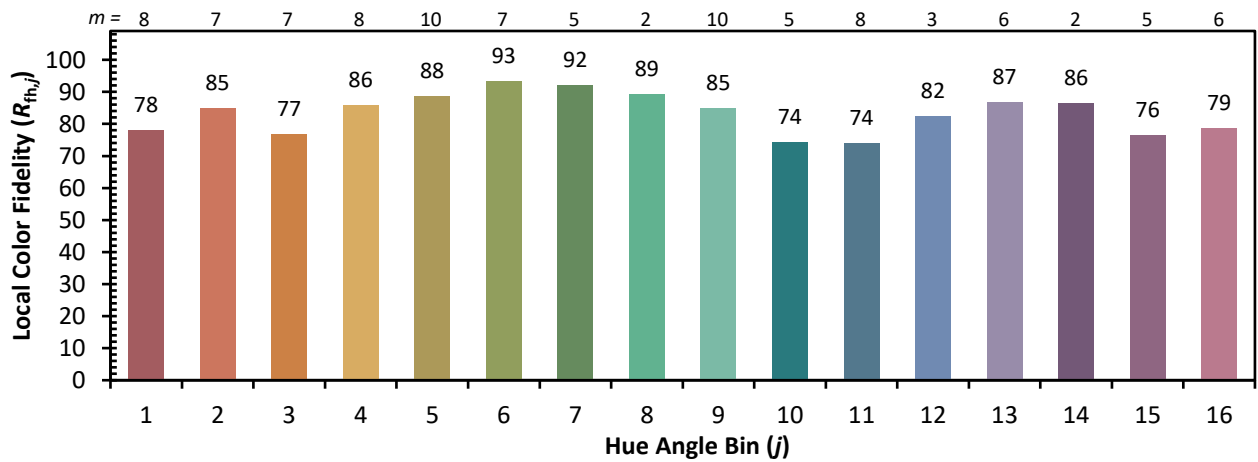
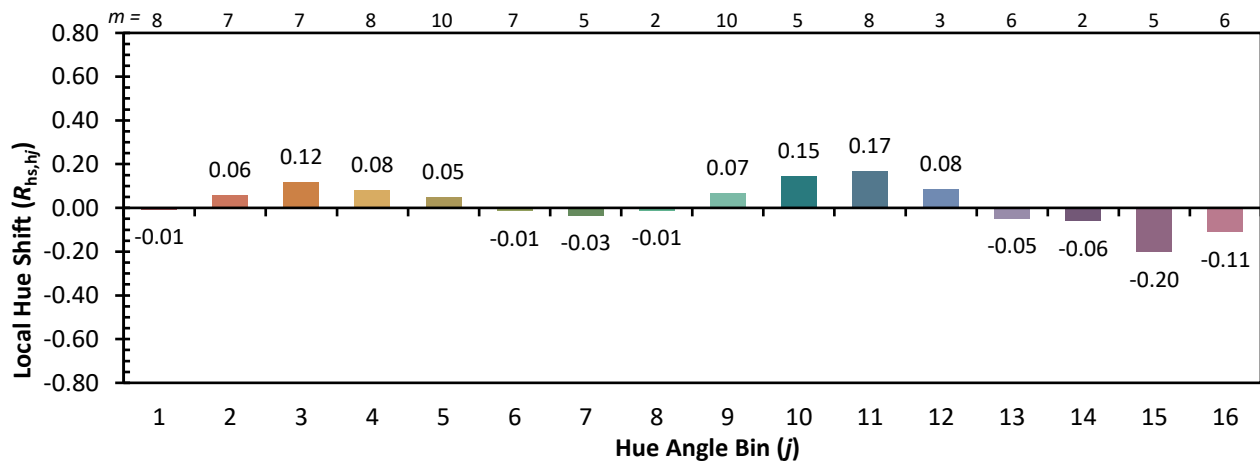
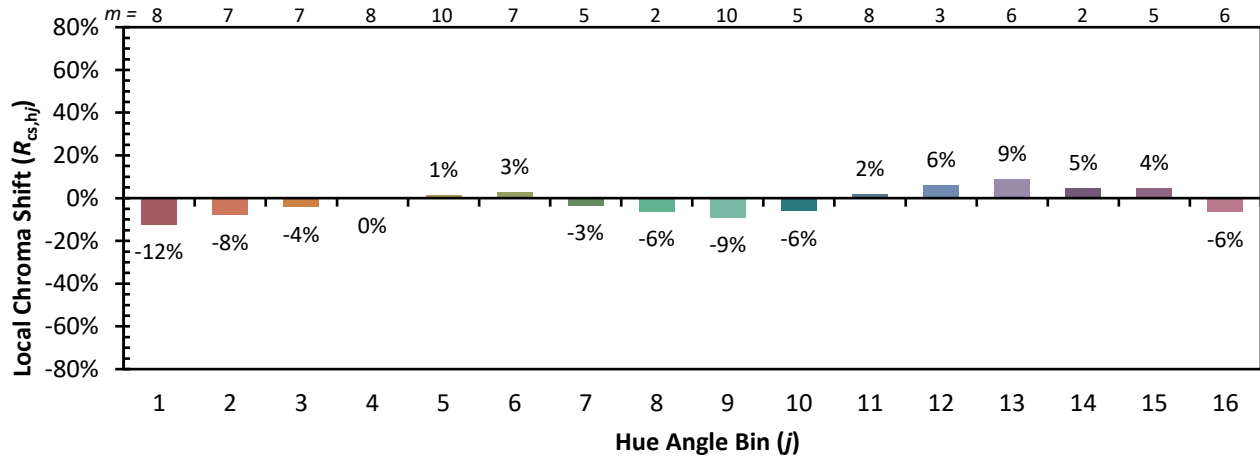


Individual Sample Fidelity Index ($R_{f,i}$)

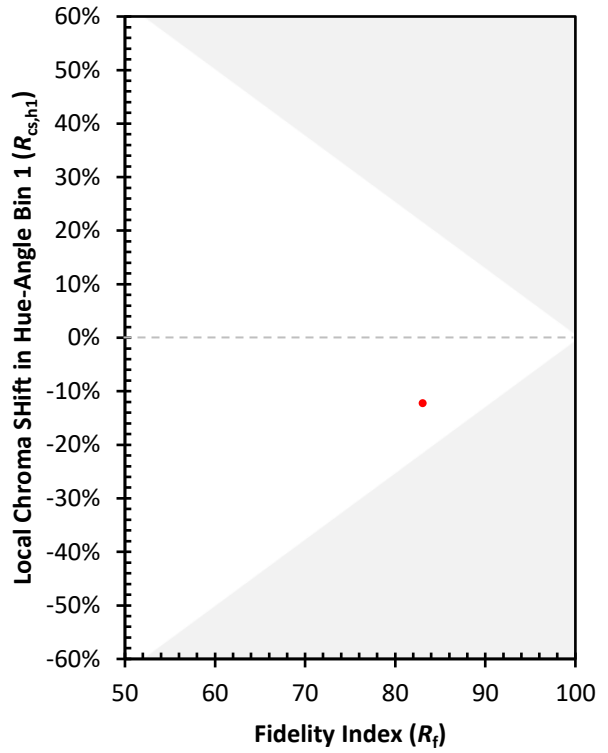
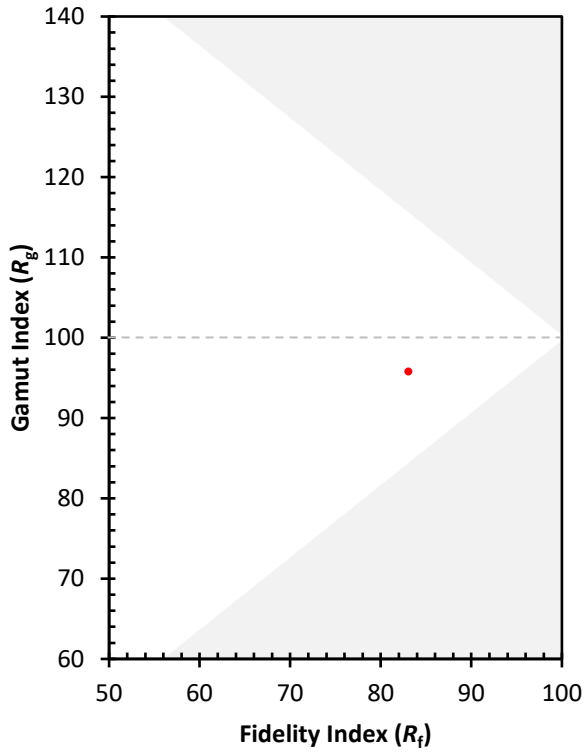
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82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