

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: P1449849

Luminaire Tested: **TWC100_T4_80W_4000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20260310010)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TWC100_T4_80W_4000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 80W
4000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6747 lumens
Efficiency: N/A
Efficacy: 176.6 lumens/watt
Luminous Opening: Rectangular (W 0.92' x L: 0.42' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U3 - G1

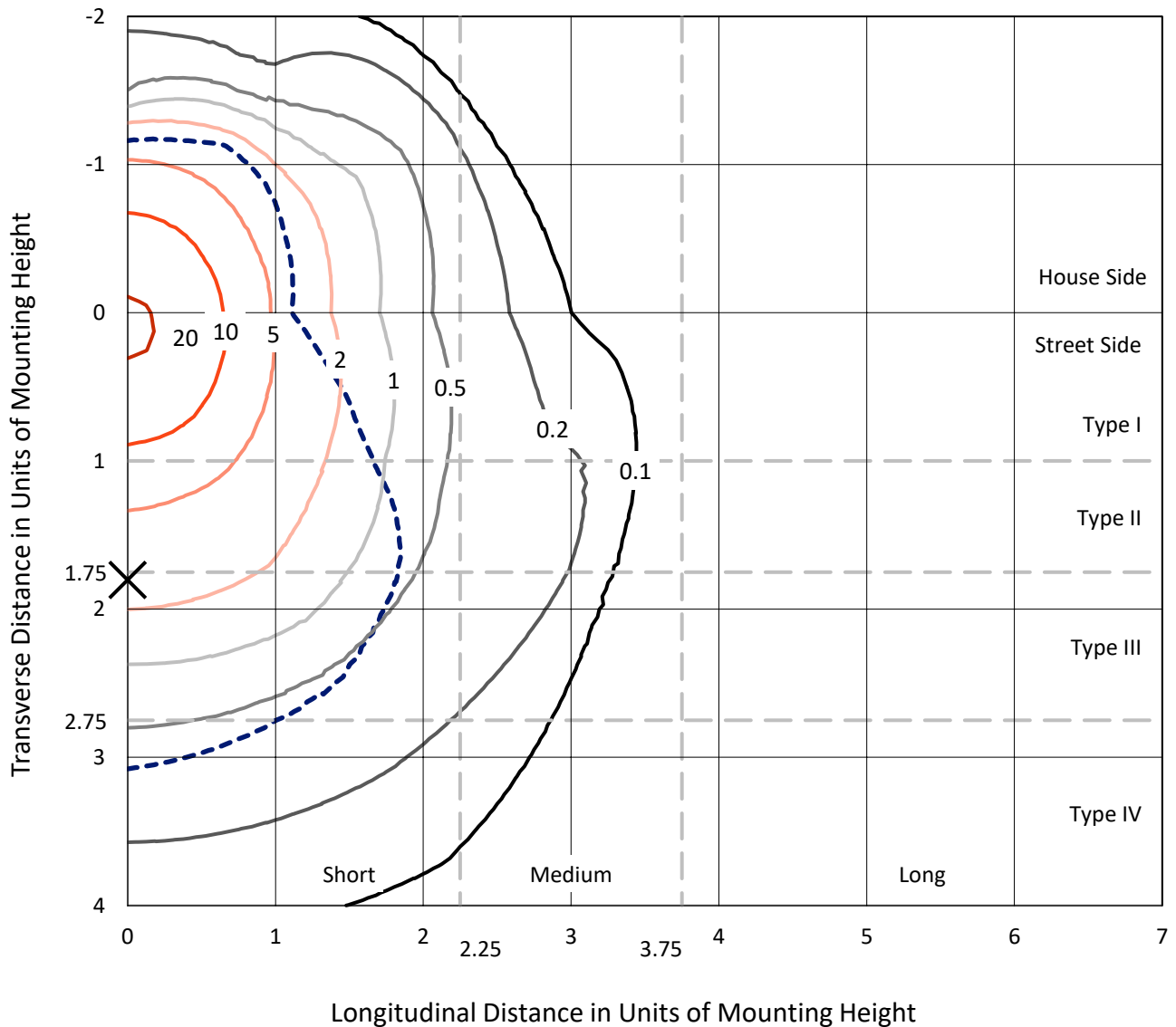
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

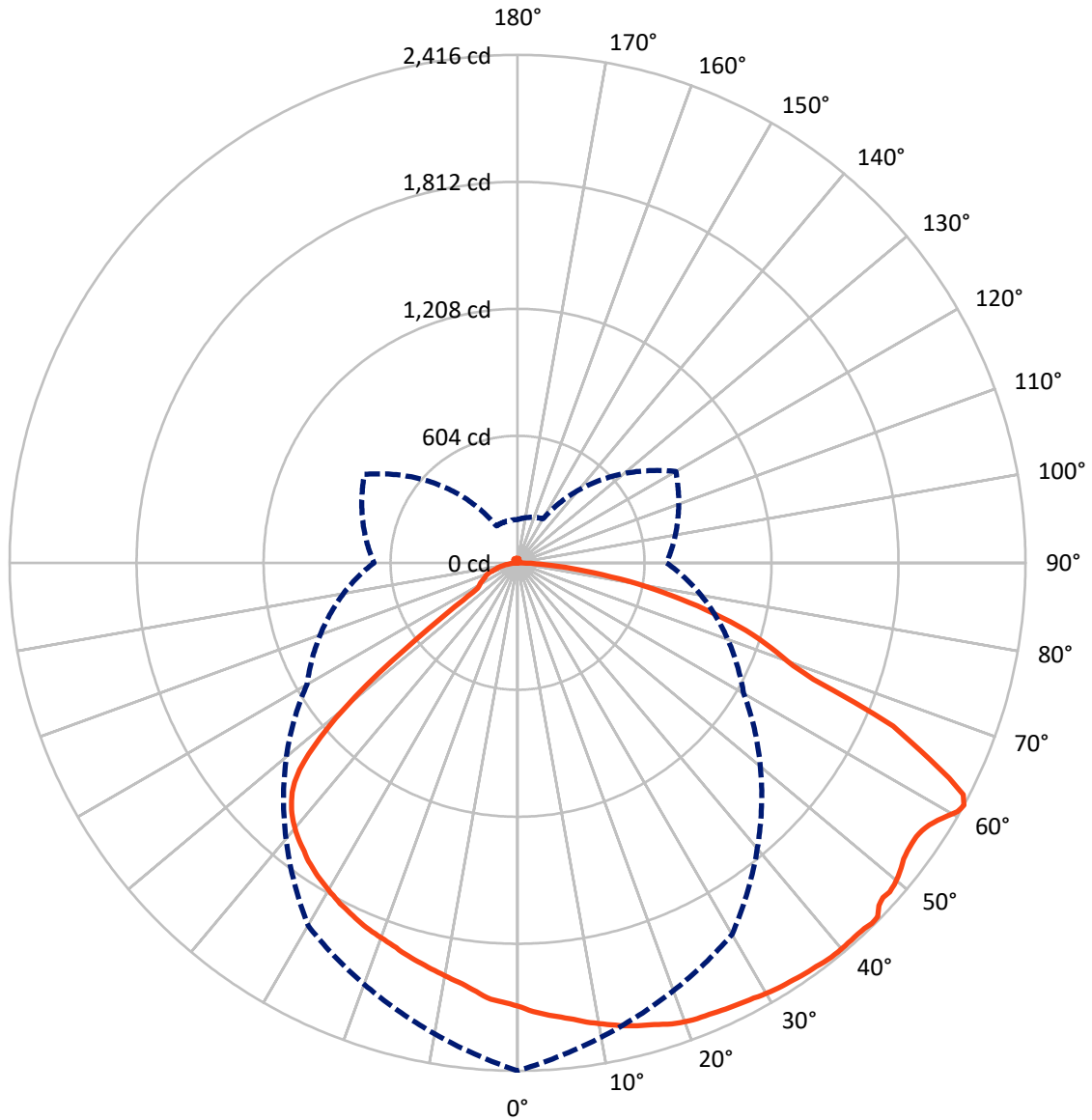
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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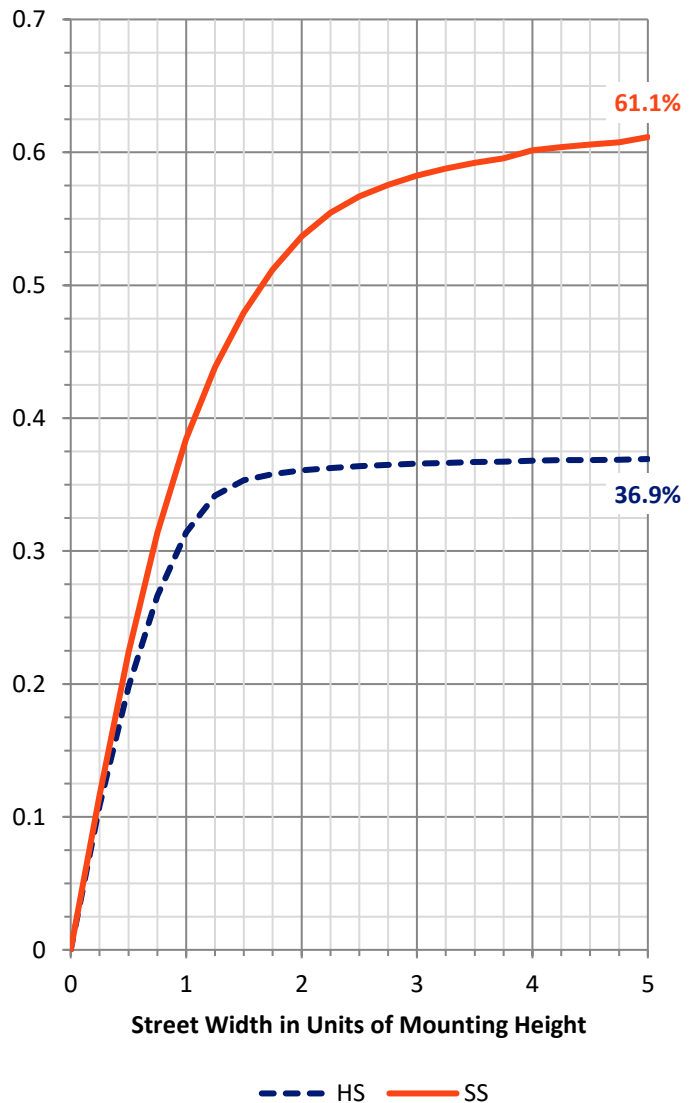
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2509.5	44.8	2554.3
	% Fixture	37.2	0.7	37.9
Street Side	Lumens	4164.7	28.0	4192.7
	% Fixture	61.7	0.4	62.1
Total	Lumens	6674.2	72.8	6747.0
	% Fixture	98.9	1.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	3.0
10°-20°	584.2	8.7
20°-30°	911.8	13.5
30°-40°	1151.4	17.1
40°-50°	1269.4	18.8
50°-60°	1146.8	17.0
60°-70°	866.3	12.8
70°-80°	438.4	6.5
80°-90°	105.0	1.6
90°-100°	3.9	0.1
100°-110°	6.8	0.1
110°-120°	9.8	0.1
120°-130°	11.7	0.2
130°-140°	12.3	0.2
140°-150°	11.3	0.2
150°-160°	9.1	0.1
160°-170°	5.9	0.1
170°-180°	2.1	0.0
0°-90°	6674.2	98.9
0°-180°	6747.0	100.0

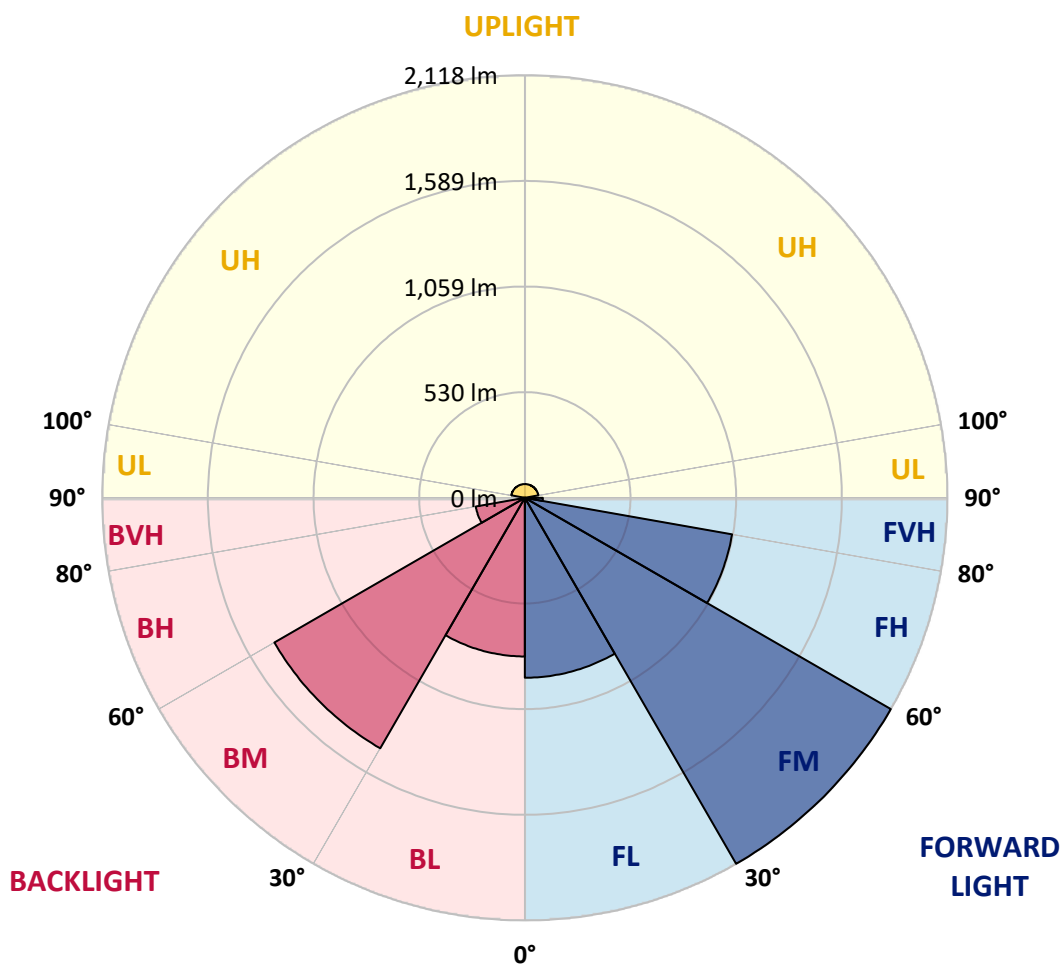


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.7	13.4			
FM (30°-60°)	2118.1	31.4			
FH (60°-80°)	1054.8	15.6			G1/1800
FVH (80°-90°)	90.1	1.3			G1/100
BL (0°-30°)	795.1	11.8	B2/1000		
BM (30°-60°)	1449.5	21.5	B2/2500		
BH (60°-80°)	249.9	3.7	B1/500		G1/500
BVH (80°-90°)	14.9	0.2			G1/100
UL (90°-100°)	3.9	0.1		U1/10	
UH (100°-180°)	68.9	1.0		U3/500	

BUG Rating: B2-U3-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	2113.4	2113.4	2113.4	2113.4	2113.4	2113.4	2113.4	2113.4	2113.4	2113.4	2113.4
1°	2129.3	2126.1	2120.1	2113.1	2110.7	2102.2	2102.7	2102.1	2108.3	2111.5	2120.5
2°	2140.3	2135.4	2123.5	2111.9	2101.3	2092.8	2093.2	2092.9	2101.9	2112.5	2121.4
3°	2150.9	2144.0	2128.0	2111.6	2094.8	2086.0	2086.2	2084.8	2090.9	2109.8	2124.5
4°	2161.6	2153.0	2131.3	2108.7	2088.0	2078.4	2079.5	2079.6	2084.4	2105.8	2128.1
5°	2171.2	2160.1	2134.3	2106.0	2080.4	2071.3	2065.7	2070.7	2077.0	2101.5	2129.1
6°	2181.6	2167.9	2138.4	2102.2	2072.9	2062.0	2047.4	2056.3	2069.8	2092.4	2134.1
7°	2193.7	2176.7	2140.3	2097.1	2066.3	2044.4	2033.3	2036.5	2062.3	2086.5	2135.0
8°	2207.6	2187.1	2141.9	2091.1	2058.2	2027.9	2019.2	2022.9	2053.3	2079.2	2135.6
9°	2219.5	2196.6	2143.1	2081.2	2049.2	2013.0	2009.3	2011.6	2043.1	2071.8	2135.8
10°	2230.6	2206.1	2144.0	2074.3	2039.2	2001.3	1998.9	2000.9	2028.6	2064.2	2135.0
11°	2241.9	2213.9	2143.0	2065.6	2027.2	1989.2	1988.5	1986.7	2013.5	2054.8	2133.0
12°	2254.7	2223.6	2140.8	2055.9	2010.1	1978.4	1978.6	1975.9	1998.4	2044.5	2131.1
13°	2263.7	2229.8	2139.4	2048.6	1994.7	1967.8	1969.7	1965.1	1982.2	2031.5	2129.9
14°	2274.1	2235.0	2138.3	2037.3	1978.1	1957.0	1959.4	1957.2	1963.6	2019.6	2124.6
15°	2280.9	2239.1	2135.7	2025.9	1961.7	1946.5	1950.5	1946.2	1947.7	2007.3	2120.7
16°	2290.4	2245.6	2134.6	2009.4	1946.0	1935.6	1940.7	1934.5	1931.4	1993.9	2115.7
17°	2300.4	2251.5	2131.1	1996.4	1929.6	1920.4	1932.0	1922.8	1915.8	1977.5	2112.4
18°	2312.8	2256.6	2126.1	1982.9	1912.5	1908.7	1919.0	1907.8	1901.1	1962.5	2106.2
19°	2319.9	2263.4	2117.0	1968.5	1896.4	1896.4	1910.2	1896.2	1884.9	1947.1	2098.9
20°	2325.5	2266.7	2109.5	1952.3	1876.8	1885.2	1900.7	1885.2	1868.8	1931.6	2085.4
21°	2330.0	2267.3	2100.8	1936.1	1859.4	1875.0	1893.2	1874.2	1847.2	1915.5	2074.6
22°	2331.4	2264.4	2090.9	1919.6	1842.2	1863.8	1886.1	1863.2	1830.9	1898.0	2062.6
23°	2335.1	2262.2	2079.2	1901.1	1822.9	1852.2	1877.4	1852.2	1813.5	1880.6	2050.7
24°	2339.0	2260.3	2067.9	1883.1	1805.5	1837.9	1867.9	1841.3	1796.1	1857.8	2039.1
25°	2343.9	2258.2	2055.6	1863.6	1787.3	1826.9	1857.2	1830.0	1777.7	1838.4	2025.9
26°	2347.0	2256.8	2043.7	1844.4	1769.1	1815.8	1847.2	1817.5	1759.2	1817.9	2011.2
27°	2351.4	2255.3	2030.3	1819.8	1750.1	1804.2	1836.3	1805.1	1741.5	1795.6	1996.9
28°	2355.1	2252.3	2015.4	1797.9	1731.5	1789.9	1827.1	1791.6	1720.4	1772.8	1979.1
29°	2362.4	2249.5	1999.9	1774.8	1712.3	1775.4	1814.7	1775.4	1701.3	1749.2	1962.7
30°	2367.1	2247.0	1979.6	1751.8	1692.2	1761.5	1803.3	1761.8	1681.3	1725.2	1945.3
31°	2371.5	2243.6	1963.4	1728.0	1667.9	1748.1	1791.7	1748.7	1661.1	1698.7	1923.9
32°	2375.7	2241.3	1946.8	1704.7	1647.3	1734.9	1779.1	1735.1	1637.3	1673.6	1906.2
33°	2378.1	2235.7	1930.0	1681.0	1626.7	1721.5	1767.5	1721.6	1617.0	1648.3	1887.5
34°	2382.3	2235.5	1912.4	1656.7	1606.2	1706.0	1753.9	1706.7	1596.0	1618.3	1867.8
35°	2385.8	2234.0	1893.4	1627.9	1584.1	1691.1	1739.9	1691.7	1574.5	1590.9	1848.3
36°	2388.6	2233.8	1873.3	1600.4	1563.0	1671.8	1725.2	1675.3	1551.5	1562.0	1826.0
37°	2394.2	2235.5	1852.4	1571.4	1540.4	1655.5	1706.2	1655.5	1528.2	1531.9	1804.0
38°	2396.1	2232.4	1826.8	1541.7	1516.2	1638.8	1690.9	1638.3	1504.1	1499.9	1781.6
39°	2397.4	2229.4	1804.4	1506.8	1488.1	1621.7	1674.6	1621.1	1480.1	1469.1	1753.0
40°	2396.8	2224.7	1781.6	1474.8	1463.2	1604.6	1656.9	1602.2	1453.1	1437.0	1728.8
41°	2395.4	2217.6	1759.2	1442.7	1439.4	1586.7	1636.9	1583.8	1429.0	1404.7	1704.0
42°	2394.8	2211.9	1733.6	1409.2	1413.3	1568.3	1614.9	1564.5	1404.9	1373.4	1678.8
43°	2397.0	2206.0	1710.6	1377.3	1388.9	1549.4	1590.7	1545.2	1380.6	1337.0	1653.0
44°	2404.2	2200.1	1687.6	1343.8	1364.5	1526.3	1561.3	1522.5	1354.6	1305.7	1629.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	2401.0	2195.8	1665.7	1310.2	1339.7	1505.8	1529.9	1499.3	1329.4	1273.1	1604.3
46°	2368.3	2193.5	1643.3	1271.4	1313.7	1483.7	1486.2	1473.2	1305.1	1237.1	1581.2
47°	2356.0	2193.1	1621.7	1237.2	1288.4	1455.6	1429.2	1444.7	1277.6	1203.3	1556.2
48°	2362.2	2177.6	1599.8	1202.8	1262.7	1427.3	1348.0	1409.9	1252.8	1169.5	1533.3
49°	2356.8	2137.8	1578.0	1168.4	1237.4	1397.1	1252.8	1374.5	1227.5	1136.6	1510.2
50°	2344.7	2127.0	1551.3	1131.9	1211.2	1363.7	1137.3	1327.2	1202.1	1099.4	1483.5
51°	2331.1	2125.8	1529.1	1096.9	1180.9	1316.9	997.7	1266.0	1175.8	1063.2	1459.6
52°	2313.6	2107.3	1505.4	1062.0	1155.0	1259.2	844.6	1184.3	1145.7	1028.6	1435.5
53°	2305.8	2086.6	1479.8	1025.6	1129.4	1187.7	670.9	1089.2	1119.2	992.8	1409.1
54°	2301.7	2065.1	1454.8	985.0	1101.7	1097.8	527.5	972.5	1091.9	952.1	1380.7
55°	2300.3	2047.5	1432.8	948.8	1074.5	973.5	409.2	835.4	1063.2	915.7	1356.0
56°	2307.4	2035.7	1411.0	911.5	1046.6	840.8	315.2	669.4	1031.7	878.5	1332.3
57°	2320.9	2026.1	1388.8	868.9	1013.4	694.1	255.7	524.3	999.9	840.8	1309.3
58°	2343.1	2021.7	1359.0	828.9	982.2	532.8	224.6	400.8	965.3	799.4	1280.0
59°	2372.1	2019.0	1309.0	789.7	948.3	405.0	215.7	307.0	924.4	759.3	1233.9
60°	2404.0	2022.5	1269.6	750.4	912.2	308.3	210.3	237.0	884.2	720.0	1188.8
61°	2415.5	2040.5	1240.9	708.3	869.1	242.0	205.6	202.5	840.9	682.8	1156.1
62°	2388.8	2071.7	1202.3	671.4	825.8	199.4	199.7	191.7	796.5	642.3	1116.2
63°	2292.7	2110.9	1153.9	636.5	780.3	187.8	192.3	185.3	742.3	608.1	1066.6
64°	2172.2	2126.1	1100.2	601.2	733.8	181.3	185.1	179.7	680.1	574.9	1013.5
65°	2056.8	2071.6	1051.3	562.0	676.4	175.3	179.0	172.8	604.2	541.6	960.9
66°	1947.0	1947.5	1001.5	527.0	610.5	167.9	172.6	165.2	510.0	504.9	903.8
67°	1735.6	1800.8	946.5	492.8	530.4	160.4	167.0	156.8	387.1	470.5	852.4
68°	1511.9	1669.6	904.6	454.0	417.2	152.7	162.6	149.4	278.6	435.0	805.0
69°	1400.4	1454.2	870.6	417.3	303.8	144.4	158.1	142.0	195.3	395.5	759.8
70°	1332.2	1268.8	847.5	379.5	212.1	136.8	152.0	135.4	146.0	359.1	727.4
71°	1269.6	1182.4	850.9	338.1	150.3	130.6	144.2	130.0	126.7	322.8	712.1
72°	1204.0	1131.0	985.5	301.5	128.4	125.2	133.2	123.7	119.2	287.5	772.0
73°	1132.3	1079.6	1147.3	267.1	119.5	118.1	122.9	116.2	111.3	249.7	1007.2
74°	1049.3	1025.6	888.1	234.8	111.1	110.3	112.9	109.0	102.7	217.4	852.2
75°	964.9	971.5	565.4	201.5	101.9	103.1	103.4	99.4	95.8	187.1	515.2
76°	880.5	909.7	470.5	173.1	94.2	93.7	97.2	90.2	88.7	159.4	402.7
77°	791.3	842.6	417.4	147.5	86.6	84.7	91.5	80.2	81.8	135.0	351.4
78°	708.7	777.9	415.3	123.6	79.4	74.5	85.8	70.9	75.1	111.4	340.5
79°	623.6	725.3	412.3	100.8	71.5	65.7	75.1	64.4	68.5	91.9	362.8
80°	539.8	671.4	320.7	82.4	65.1	59.0	66.7	58.6	62.4	74.2	266.1
81°	448.3	603.6	215.7	66.7	58.9	53.0	59.4	52.5	54.7	58.5	173.6
82°	367.5	521.4	180.3	52.3	50.3	47.2	49.3	45.5	47.0	43.8	144.4
83°	292.5	434.2	159.0	38.6	42.4	40.0	37.9	39.3	38.4	33.7	129.4
84°	226.6	374.8	139.4	28.8	34.3	33.4	28.4	32.9	31.2	25.8	113.9
85°	159.7	317.4	118.9	21.2	27.1	27.2	23.0	24.8	24.0	19.0	97.2
86°	108.1	228.8	99.1	14.8	19.9	19.4	14.8	17.6	19.1	12.9	77.5
87°	64.0	156.3	70.4	9.0	14.5	11.9	9.4	11.4	13.3	8.4	54.0
88°	21.5	59.9	28.3	4.7	8.6	6.5	7.1	7.6	8.1	4.8	17.3
89°	1.8	1.2	1.7	1.9	3.8	3.7	6.1	6.2	4.5	2.6	2.0



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.6	0.6	0.7	0.9	1.8	2.7	6.4	6.2	4.2	2.1	1.8
91°	0.6	0.6	0.8	1.1	1.9	2.8	7.0	6.8	4.4	2.3	2.0
92°	0.7	0.7	0.8	0.9	2.2	3.1	7.7	7.2	4.8	2.5	2.1
93°	0.8	0.7	0.9	1.1	2.3	3.5	8.2	7.7	5.2	2.7	2.3
94°	0.8	0.7	1.0	1.2	2.6	3.8	8.7	8.3	5.5	2.8	2.4
95°	0.8	0.8	1.2	1.4	2.8	4.3	9.4	8.7	5.8	3.1	2.7
96°	0.7	0.7	1.2	1.5	3.0	4.6	10.1	9.3	6.1	3.4	2.9
97°	1.0	0.9	1.3	1.7	3.3	5.1	10.7	9.7	6.6	3.6	3.2
98°	0.9	0.9	1.4	1.8	3.6	5.5	11.2	10.3	7.0	3.9	3.4
99°	1.0	1.0	1.7	2.0	3.8	5.9	11.8	10.8	7.2	4.2	3.7
100°	1.0	1.1	1.8	2.1	4.2	6.2	12.4	11.3	7.8	4.5	3.9
101°	1.1	1.2	2.0	2.3	4.4	6.7	13.0	11.9	8.1	4.8	4.2
102°	1.1	1.3	2.1	2.6	4.7	7.1	13.5	12.3	8.6	5.1	4.4
103°	1.2	1.4	2.2	2.9	5.0	7.5	14.2	12.8	8.9	5.4	4.8
104°	1.3	1.5	2.5	3.0	5.4	7.9	14.6	13.3	9.3	5.7	5.1
105°	1.5	1.7	2.7	3.2	5.7	8.5	15.1	13.8	9.7	6.0	5.4
106°	1.5	2.0	2.9	3.5	6.0	8.8	15.8	14.3	10.0	6.4	5.7
107°	1.7	2.1	3.1	3.7	6.3	9.3	16.3	14.9	10.4	6.7	6.0
108°	1.9	2.3	3.5	4.0	6.7	9.9	16.7	15.3	10.7	7.0	6.3
109°	2.1	2.6	3.6	4.3	7.0	10.3	17.2	15.8	11.2	7.5	6.8
110°	2.2	2.9	4.0	4.5	7.3	10.8	17.7	16.3	11.6	7.8	7.1
111°	2.4	3.1	4.3	4.8	7.7	11.2	18.2	16.7	12.0	8.2	7.3
112°	2.8	3.4	4.4	5.1	7.9	11.7	18.8	17.0	12.4	8.4	7.7
113°	3.0	3.6	4.7	5.3	8.3	12.0	19.0	17.4	12.7	8.9	8.1
114°	3.2	4.0	5.0	5.6	8.7	12.4	19.4	17.8	13.0	9.2	8.4
115°	3.5	4.3	5.2	6.0	9.1	12.9	19.9	18.1	13.4	9.6	8.7
116°	3.8	4.6	5.6	6.2	9.4	13.3	20.2	18.4	13.8	10.0	9.1
117°	4.2	4.8	5.9	6.5	9.8	13.7	20.4	18.8	14.2	10.3	9.3
118°	4.4	5.2	6.1	6.9	10.1	14.0	20.8	18.9	14.4	10.6	9.8
119°	4.9	5.5	6.4	7.2	10.5	14.2	21.0	19.1	14.8	11.0	10.1
120°	5.3	5.9	6.7	7.6	10.8	14.8	21.2	19.5	15.1	11.4	10.4
121°	5.6	6.3	7.0	7.9	11.2	15.1	21.4	19.7	15.4	11.8	10.8
122°	6.0	6.6	7.3	8.2	11.6	15.3	21.5	20.0	15.8	12.0	11.1
123°	6.3	7.0	7.7	8.4	11.9	15.8	21.7	20.2	16.0	12.4	11.4
124°	6.9	7.3	7.9	8.7	12.2	16.2	22.0	20.4	16.2	12.8	11.8
125°	7.3	7.8	8.3	9.2	12.6	16.5	22.2	20.6	16.6	13.0	12.2
126°	7.7	8.1	8.6	9.5	12.9	16.8	22.3	20.7	16.8	13.4	12.5
127°	8.0	8.4	8.9	9.9	13.2	17.1	22.4	20.9	17.1	13.7	12.9
128°	8.3	8.8	9.3	10.1	13.6	17.4	22.5	21.1	17.4	14.0	13.2
129°	8.8	9.1	9.6	10.4	13.8	17.7	22.6	21.2	17.6	14.3	13.5
130°	9.2	9.4	9.9	10.7	14.2	18.0	22.7	21.3	17.8	14.5	13.8
131°	9.5	9.6	10.2	11.1	14.4	18.3	22.7	21.5	18.1	15.0	14.1
132°	9.9	10.0	10.5	11.4	14.8	18.5	22.8	21.7	18.2	15.2	14.3
133°	10.2	10.4	10.8	11.8	15.1	18.8	22.9	21.8	18.3	15.5	14.6
134°	10.5	10.7	11.1	12.0	15.4	19.2	23.0	21.8	18.6	15.8	15.0



REPORT NUMBER: P1449849
 CATALOG NUMBER: TWC100_T4_80W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	10.8	11.0	11.4	12.4	15.7	19.4	23.1	21.9	18.9	16.1	15.3
136°	11.1	11.3	11.8	12.7	15.9	19.7	23.1	22.0	19.0	16.3	15.5
137°	11.4	11.6	12.1	13.0	16.1	19.9	23.1	22.2	19.2	16.6	15.8
138°	11.8	12.0	12.5	13.3	16.2	20.0	23.1	22.0	19.3	16.9	16.1
139°	12.0	12.2	12.7	13.7	16.6	20.2	23.1	22.2	19.4	17.1	16.2
140°	12.3	12.6	13.1	14.0	16.8	20.3	23.2	22.3	19.6	17.4	16.6
141°	12.6	12.9	13.4	14.2	17.0	20.4	23.0	22.3	19.8	17.6	16.8
142°	12.9	13.0	13.8	14.5	17.2	20.7	23.1	22.2	20.0	17.8	17.0
143°	13.2	13.5	14.2	14.8	17.5	20.8	23.1	22.3	20.0	18.0	17.1
144°	13.5	13.7	14.3	15.1	17.8	20.9	23.0	22.3	20.2	18.3	17.4
145°	14.0	14.2	14.7	15.3	17.8	20.9	23.0	22.3	20.4	18.4	17.6
146°	14.2	14.6	15.0	15.5	18.1	21.0	23.0	22.4	20.5	18.7	17.9
147°	14.6	14.8	15.3	15.8	18.3	21.1	23.0	22.3	20.7	19.0	18.2
148°	15.0	15.3	15.4	16.1	18.5	21.1	22.9	22.3	20.8	19.1	18.4
149°	15.4	15.4	15.8	16.4	18.7	21.1	23.0	22.5	20.9	19.2	18.5
150°	15.8	15.8	16.0	16.6	18.9	21.4	22.9	22.5	21.0	19.5	18.7
151°	16.1	16.2	16.3	16.9	19.1	21.4	23.0	22.5	21.1	19.7	18.9
152°	16.5	16.5	16.5	17.1	19.3	21.5	22.8	22.5	21.2	19.9	19.2
153°	16.7	16.7	16.7	17.4	19.3	21.5	22.7	22.5	21.4	20.1	19.3
154°	17.0	17.0	17.0	17.6	19.5	21.5	22.8	22.5	21.4	20.1	19.4
155°	17.4	17.1	17.3	17.8	19.7	21.6	22.8	22.5	21.6	20.3	19.5
156°	17.7	17.5	17.5	18.1	19.9	21.7	22.6	22.5	21.6	20.4	19.7
157°	17.8	17.6	17.7	18.3	20.0	21.8	22.5	22.4	21.6	20.6	19.9
158°	18.0	17.8	17.9	18.5	20.2	21.9	22.5	22.4	21.6	20.7	20.1
159°	18.2	18.0	18.2	18.7	20.3	21.9	22.5	22.4	21.7	20.9	20.2
160°	18.4	18.2	18.3	18.9	20.6	21.9	22.4	22.4	21.8	20.9	20.3
161°	18.6	18.4	18.5	19.1	20.6	22.0	22.3	22.3	21.8	21.1	20.4
162°	18.8	18.5	18.8	19.3	20.8	22.0	22.2	22.3	21.9	21.1	20.6
163°	18.9	18.7	18.9	19.5	20.9	22.0	22.2	22.3	21.8	21.2	20.7
164°	19.1	18.7	19.0	19.8	21.1	22.0	22.2	22.2	21.9	21.3	20.9
165°	19.3	19.2	19.3	19.9	21.2	22.2	22.1	22.2	21.9	21.4	21.0
166°	19.4	19.2	19.5	20.0	21.2	22.2	22.1	22.2	22.0	21.5	21.0
167°	19.5	19.5	19.7	20.2	21.4	22.2	22.0	22.2	22.0	21.5	21.1
168°	19.7	19.7	19.9	20.3	21.5	22.2	22.0	22.1	22.0	21.6	21.4
169°	19.9	19.9	20.1	20.6	21.6	22.3	22.0	22.1	22.0	21.7	21.4
170°	20.0	19.9	20.2	20.8	21.6	22.2	22.0	22.2	22.1	21.8	21.5
171°	20.2	20.1	20.4	20.9	21.7	22.3	22.2	22.1	22.0	21.9	21.6
172°	20.4	20.3	20.6	21.1	21.8	22.2	22.0	22.0	22.0	22.0	21.6
173°	20.7	20.4	20.7	21.3	21.8	22.2	22.2	22.2	22.0	22.0	21.7
174°	20.8	20.6	20.9	21.4	21.9	22.3	22.1	22.1	21.9	22.2	21.9
175°	21.0	20.8	21.2	21.5	22.1	22.3	22.0	21.9	22.0	22.1	21.9
176°	21.2	21.0	21.1	21.7	22.1	22.4	22.0	22.0	21.9	22.0	22.0
177°	21.4	21.1	21.4	21.8	22.1	22.3	22.0	21.8	21.9	22.1	22.1
178°	21.5	21.4	21.5	21.8	22.3	22.3	21.9	21.7	21.9	22.2	22.1
179°	21.6	21.5	21.6	21.9	22.2	22.2	21.9	21.8	21.9	22.2	22.1



REPORT NUMBER: P1449849
CATALOG NUMBER: TWC100_T4_80W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9



REPORT NUMBER: P1449849
CATALOG NUMBER: TWC100_T4_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	2113.4	2113.4
1°	2124.1	2129.3
2°	2132.7	2140.3
3°	2141.9	2150.9
4°	2150.0	2161.6
5°	2158.0	2171.2
6°	2166.8	2181.6
7°	2175.1	2193.7
8°	2183.6	2207.6
9°	2192.2	2219.5
10°	2199.6	2230.6
11°	2207.1	2241.9
12°	2216.9	2254.7
13°	2222.2	2263.7
14°	2228.0	2274.1
15°	2229.1	2280.9
16°	2234.5	2290.4
17°	2240.3	2300.4
18°	2243.0	2312.8
19°	2247.9	2319.9
20°	2249.6	2325.5
21°	2248.7	2330.0
22°	2246.3	2331.4
23°	2243.8	2335.1
24°	2240.8	2339.0
25°	2238.2	2343.9
26°	2234.1	2347.0
27°	2230.6	2351.4
28°	2227.2	2355.1
29°	2222.4	2362.4
30°	2222.0	2367.1
31°	2218.3	2371.5
32°	2215.3	2375.7
33°	2212.6	2378.1
34°	2207.2	2382.3
35°	2205.8	2385.8
36°	2204.5	2388.6
37°	2203.7	2394.2
38°	2199.0	2396.1
39°	2195.4	2397.4
40°	2189.9	2396.8
41°	2183.4	2395.4
42°	2176.8	2394.8
43°	2170.4	2397.0
44°	2163.6	2404.2



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CATALOG NUMBER: TWC100_T4_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	2156.3	2401.0
46°	2153.9	2368.3
47°	2150.0	2356.0
48°	2121.4	2362.2
49°	2089.8	2356.8
50°	2084.9	2344.7
51°	2077.8	2331.1
52°	2061.2	2313.6
53°	2034.7	2305.8
54°	2013.2	2301.7
55°	1994.7	2300.3
56°	1980.5	2307.4
57°	1970.5	2320.9
58°	1965.4	2343.1
59°	1961.3	2372.1
60°	1968.2	2404.0
61°	1992.0	2415.5
62°	2026.4	2388.8
63°	2059.0	2292.7
64°	2054.2	2172.2
65°	1962.1	2056.8
66°	1827.0	1947.0
67°	1703.3	1735.6
68°	1533.6	1511.9
69°	1307.9	1400.4
70°	1182.4	1332.2
71°	1123.4	1269.6
72°	1065.2	1204.0
73°	1014.3	1132.3
74°	962.6	1049.3
75°	906.8	964.9
76°	834.2	880.5
77°	771.8	791.3
78°	718.2	708.7
79°	667.3	623.6
80°	608.6	539.8
81°	546.5	448.3
82°	459.3	367.5
83°	382.9	292.5
84°	325.3	226.6
85°	248.3	159.7
86°	186.9	108.1
87°	103.1	64.0
88°	6.0	21.5
89°	1.0	1.8



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CATALOG NUMBER: TWC100_T4_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	1.1	0.6
91°	1.1	0.6
92°	1.2	0.7
93°	1.4	0.8
94°	1.4	0.8
95°	1.6	0.8
96°	1.9	0.7
97°	1.9	1.0
98°	2.2	0.9
99°	2.4	1.0
100°	2.7	1.0
101°	2.9	1.1
102°	3.2	1.1
103°	3.6	1.2
104°	3.8	1.3
105°	4.1	1.5
106°	4.4	1.5
107°	4.8	1.7
108°	5.1	1.9
109°	5.4	2.1
110°	5.9	2.2
111°	6.2	2.4
112°	6.5	2.8
113°	7.0	3.0
114°	7.4	3.2
115°	7.9	3.5
116°	8.3	3.8
117°	8.7	4.2
118°	9.0	4.4
119°	9.4	4.9
120°	9.9	5.3
121°	10.3	5.6
122°	10.7	6.0
123°	11.1	6.3
124°	11.5	6.9
125°	11.9	7.3
126°	12.2	7.7
127°	12.5	8.0
128°	12.9	8.3
129°	13.2	8.8
130°	13.5	9.2
131°	13.8	9.5
132°	14.2	9.9
133°	14.3	10.2
134°	14.7	10.5



REPORT NUMBER: P1449849
CATALOG NUMBER: TWC100_T4_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	15.0	10.8
136°	15.2	11.1
137°	15.4	11.4
138°	15.8	11.8
139°	16.1	12.0
140°	16.4	12.3
141°	16.5	12.6
142°	16.8	12.9
143°	17.0	13.2
144°	17.3	13.5
145°	17.5	14.0
146°	17.7	14.2
147°	17.8	14.6
148°	18.0	15.0
149°	18.2	15.4
150°	18.4	15.8
151°	18.5	16.1
152°	18.7	16.5
153°	18.9	16.7
154°	19.0	17.0
155°	19.1	17.4
156°	19.2	17.7
157°	19.4	17.8
158°	19.5	18.0
159°	19.7	18.2
160°	19.8	18.4
161°	19.8	18.6
162°	20.0	18.8
163°	20.2	18.9
164°	20.3	19.1
165°	20.4	19.3
166°	20.6	19.4
167°	20.6	19.5
168°	20.8	19.7
169°	20.9	19.9
170°	21.0	20.0
171°	21.2	20.2
172°	21.2	20.4
173°	21.4	20.7
174°	21.6	20.8
175°	21.7	21.0
176°	21.8	21.2
177°	21.9	21.4
178°	22.2	21.5
179°	22.2	21.6

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P1449849
CATALOG NUMBER: TWC100_T4_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	21.9	21.9

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

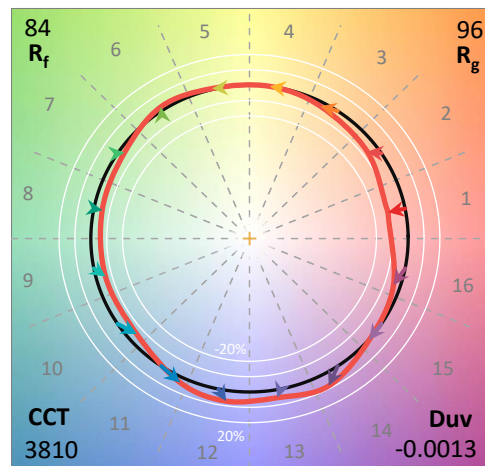
Test Information

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

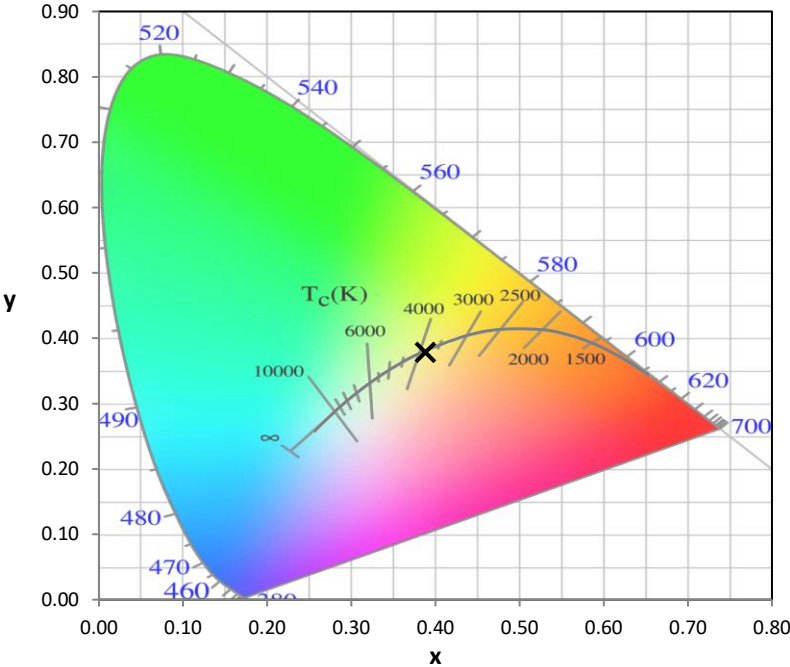
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-2

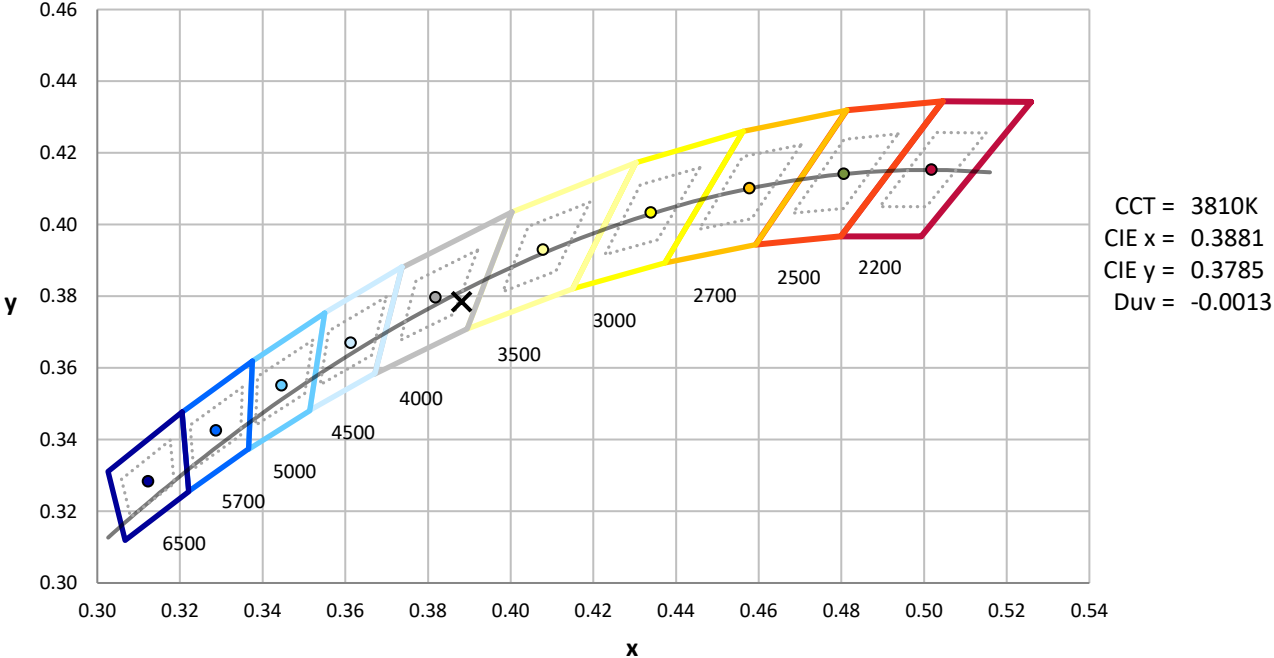
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram



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

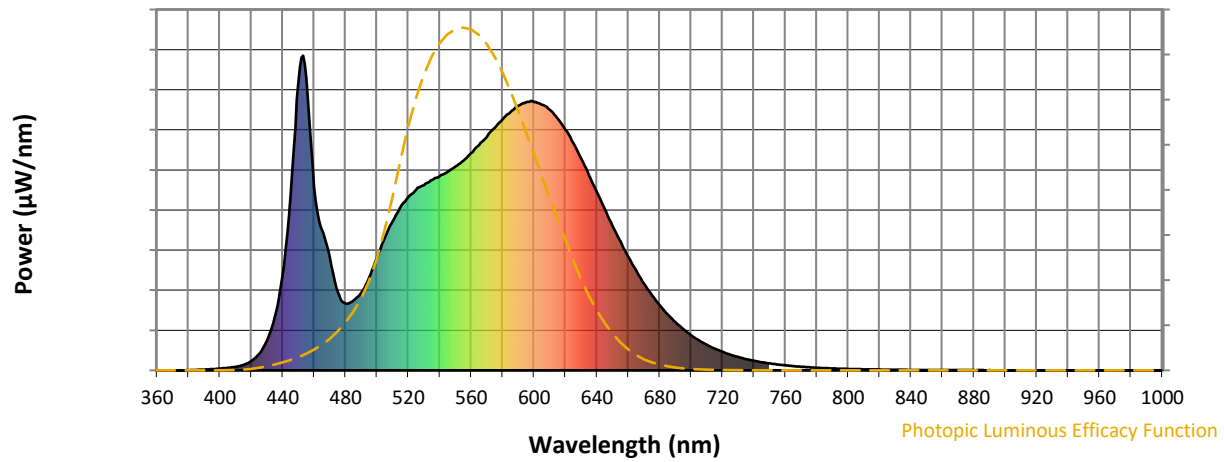


CCT = 3810K
 CIE x = 0.3881
 CIE y = 0.3785
 Duv = -0.0013

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

Photopic Flux vs. Wavelength

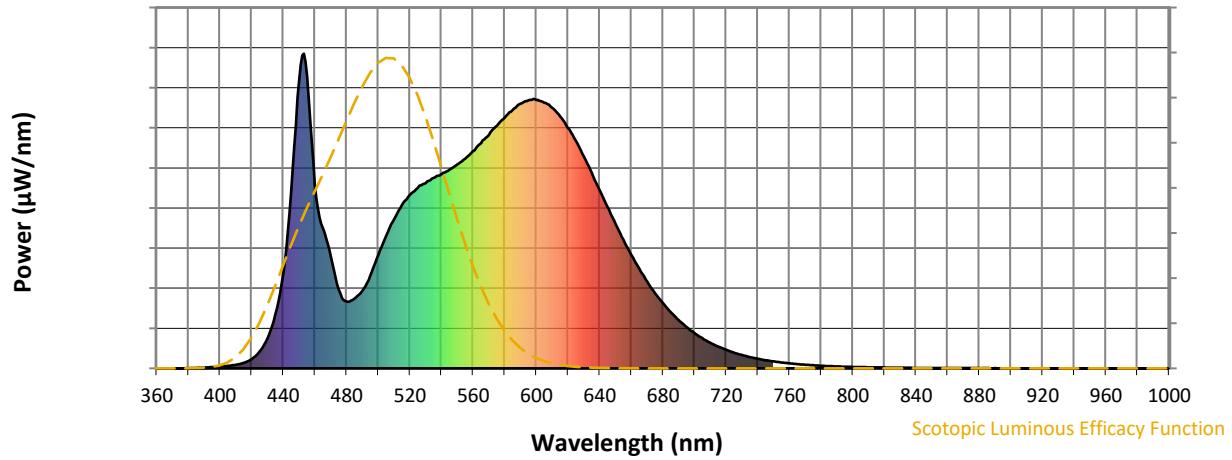


Photopic Lumens: NR

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



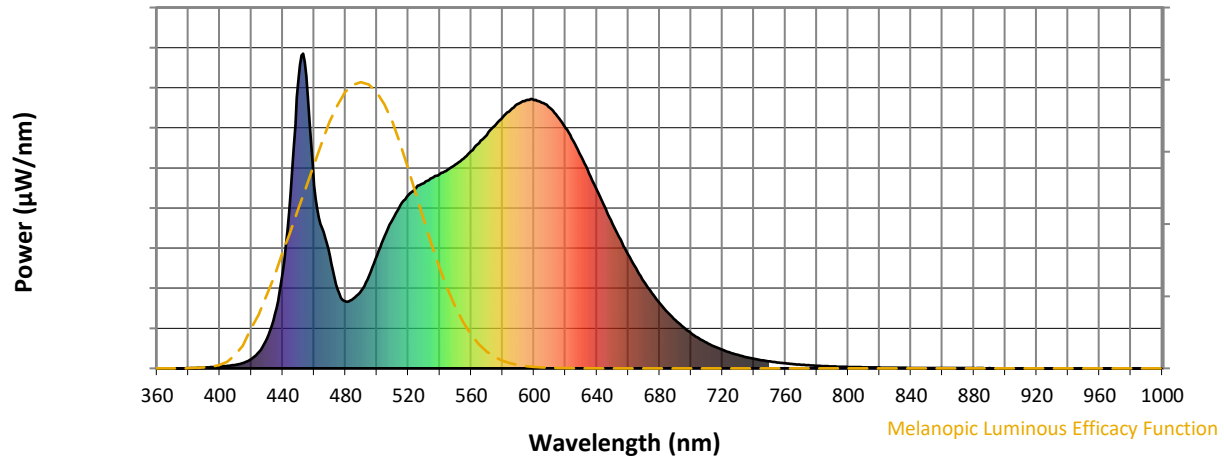
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2601-659-2

Melanopic Flux vs. Wavelength



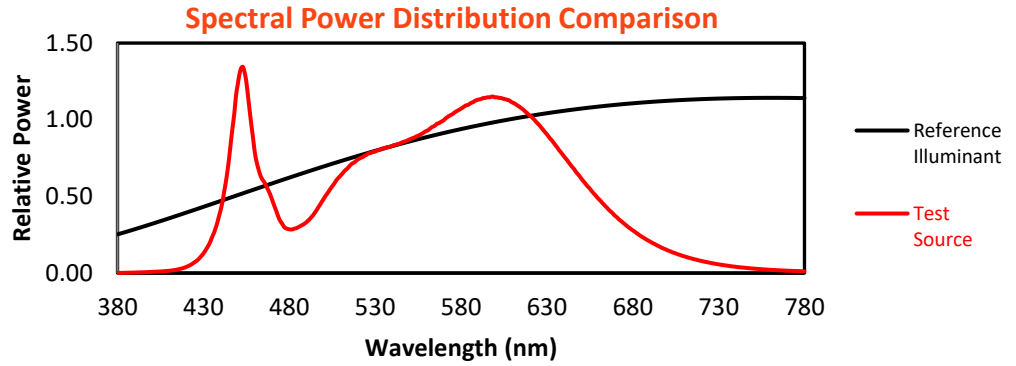
Melanopic Lumens: NR

M/P: 3.35

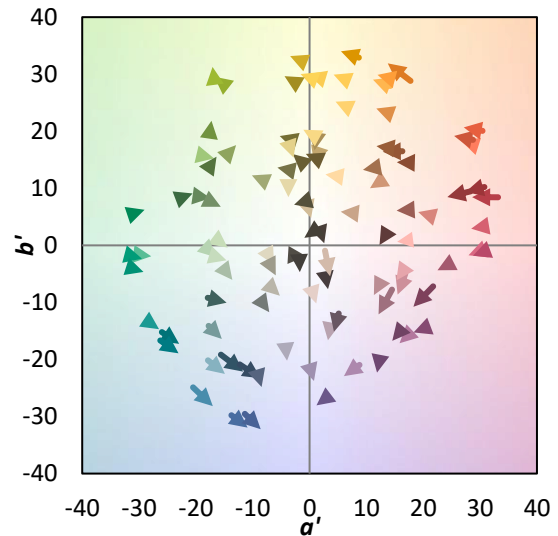
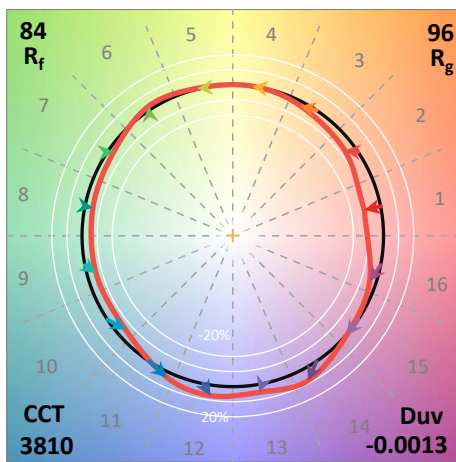
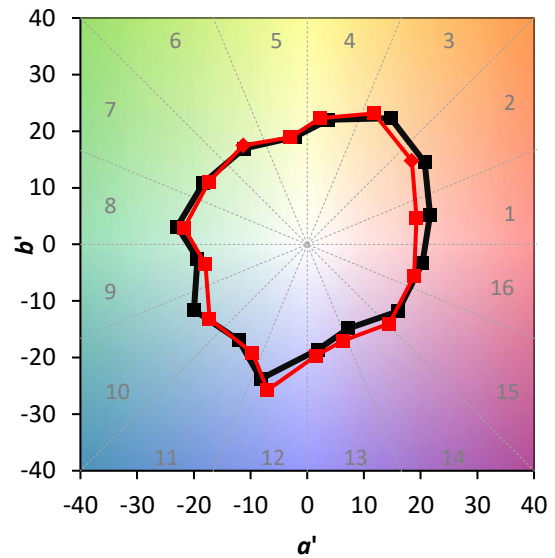
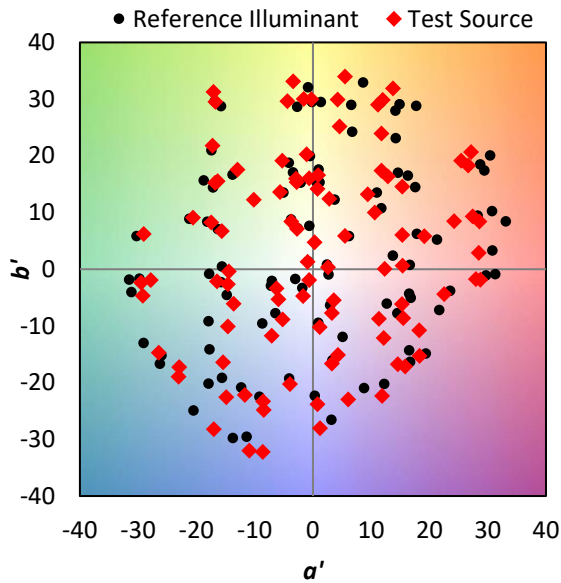
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	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 $R_a = 84.5$
 $R_9 = 15.9$

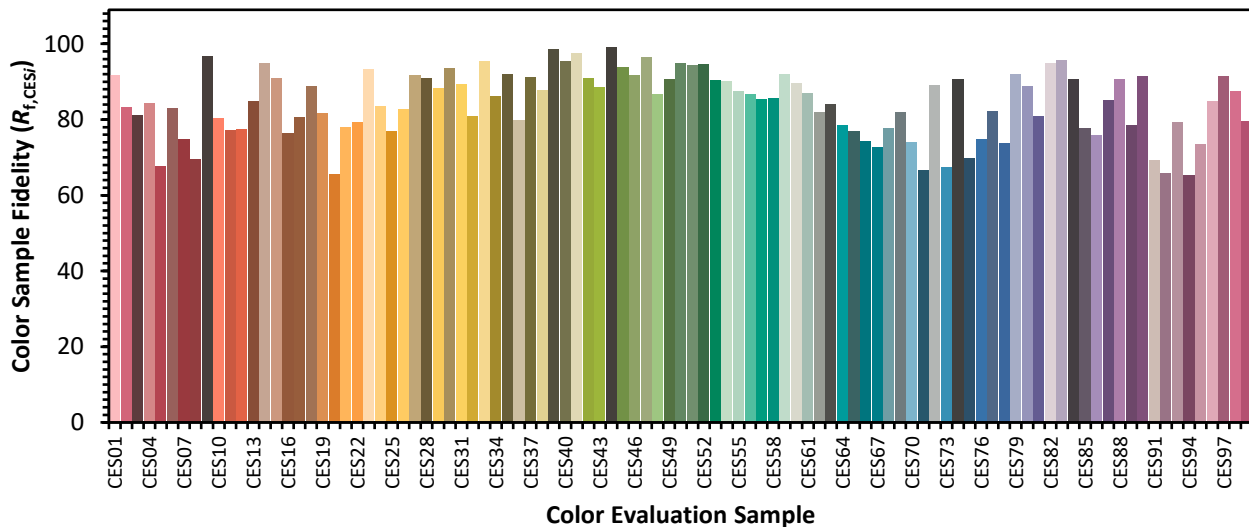


Color Vector Graphics

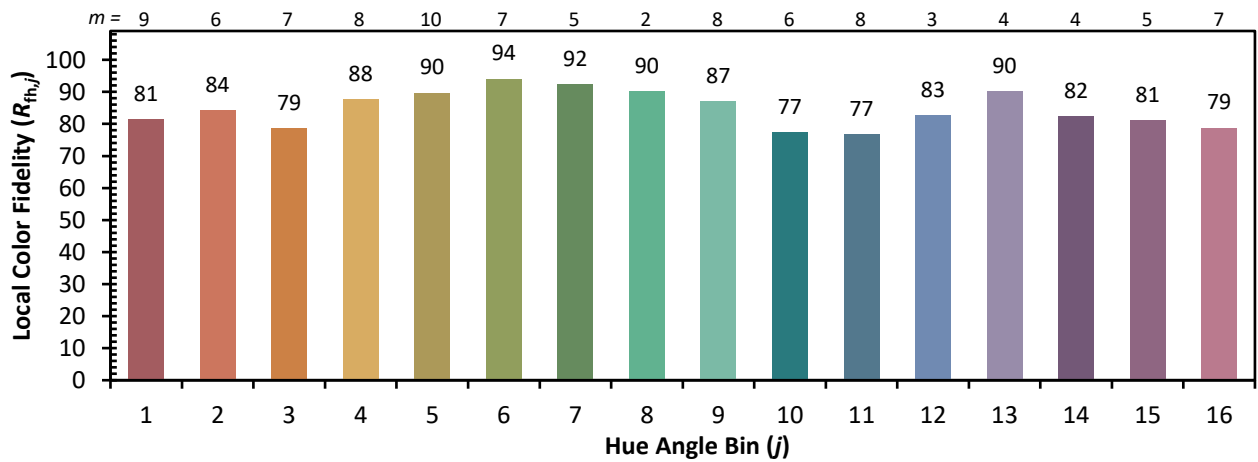
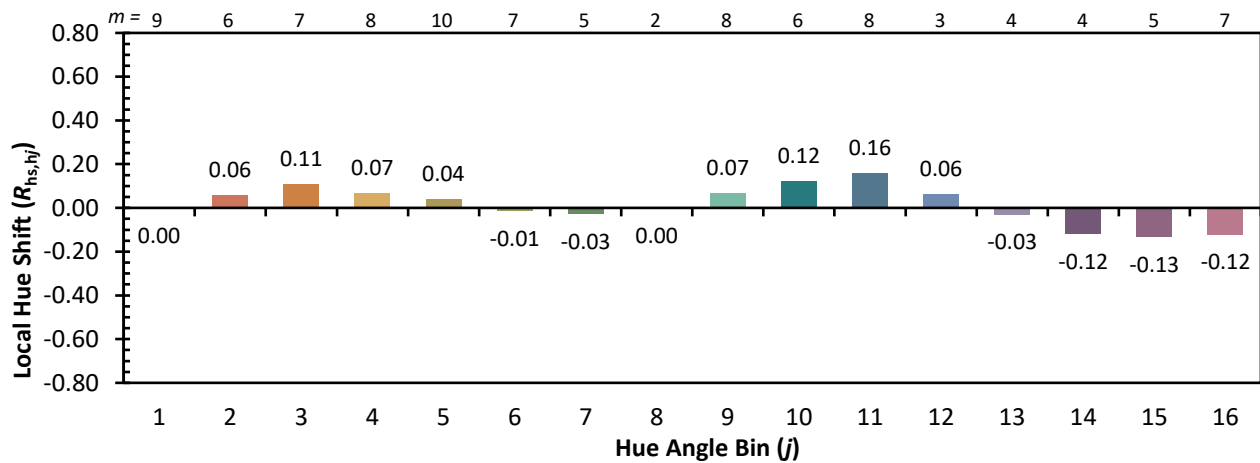
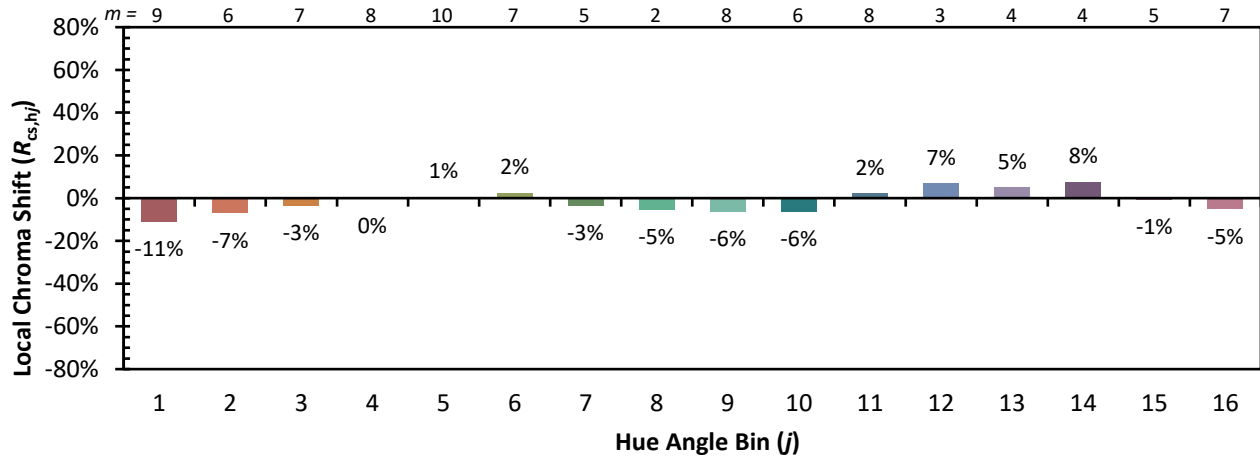


Individual Sample Fidelity Index ($R_{f,i}$)

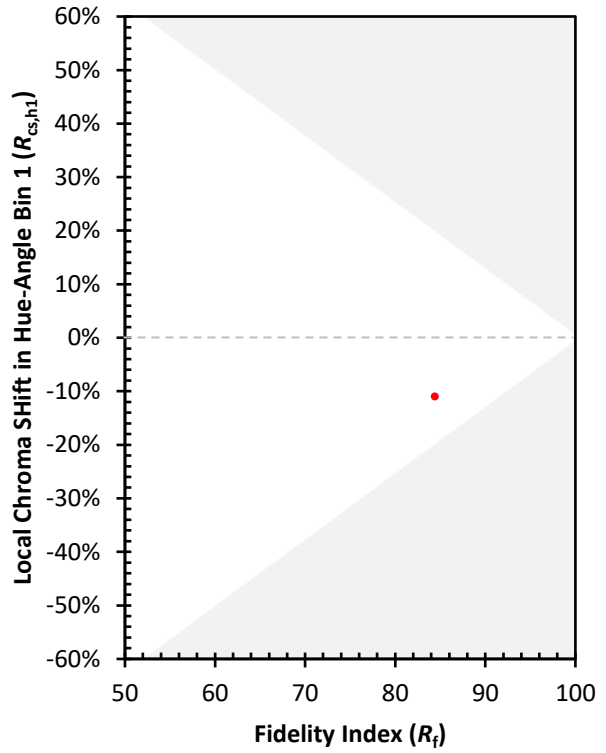
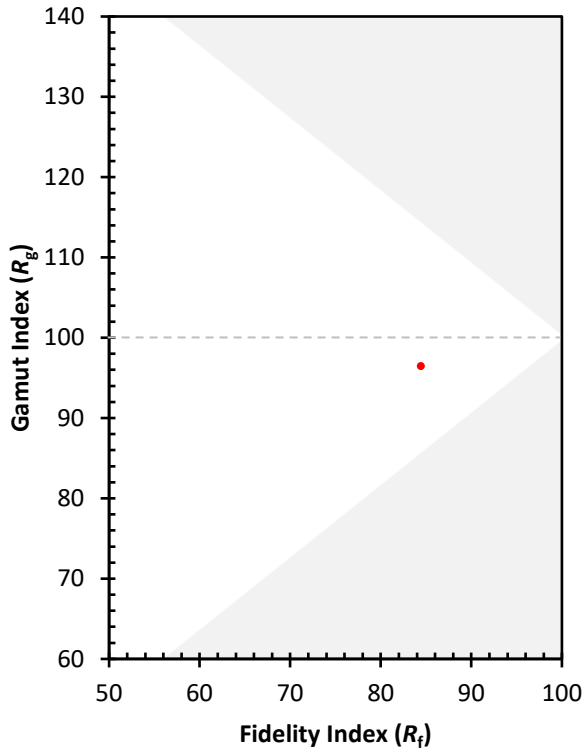
CES01 = 86	CES26 = 83	CES51 = 94	CES76 = 75
CES02 = 62	CES27 = 92	CES52 = 95	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 90	CES78 = 74
CES04 = 70	CES29 = 88	CES54 = 90	CES79 = 92
CES05 = 48	CES30 = 94	CES55 = 88	CES80 = 89
CES06 = 51	CES31 = 89	CES56 = 87	CES81 = 81
CES07 = 41	CES32 = 81	CES57 = 86	CES82 = 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)