

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: P1449850

Luminaire Tested: **TWC100_T4_80W_5000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449850
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_5000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 80W
5000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6804 lumens
Efficiency: N/A
Efficacy: 174.0 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

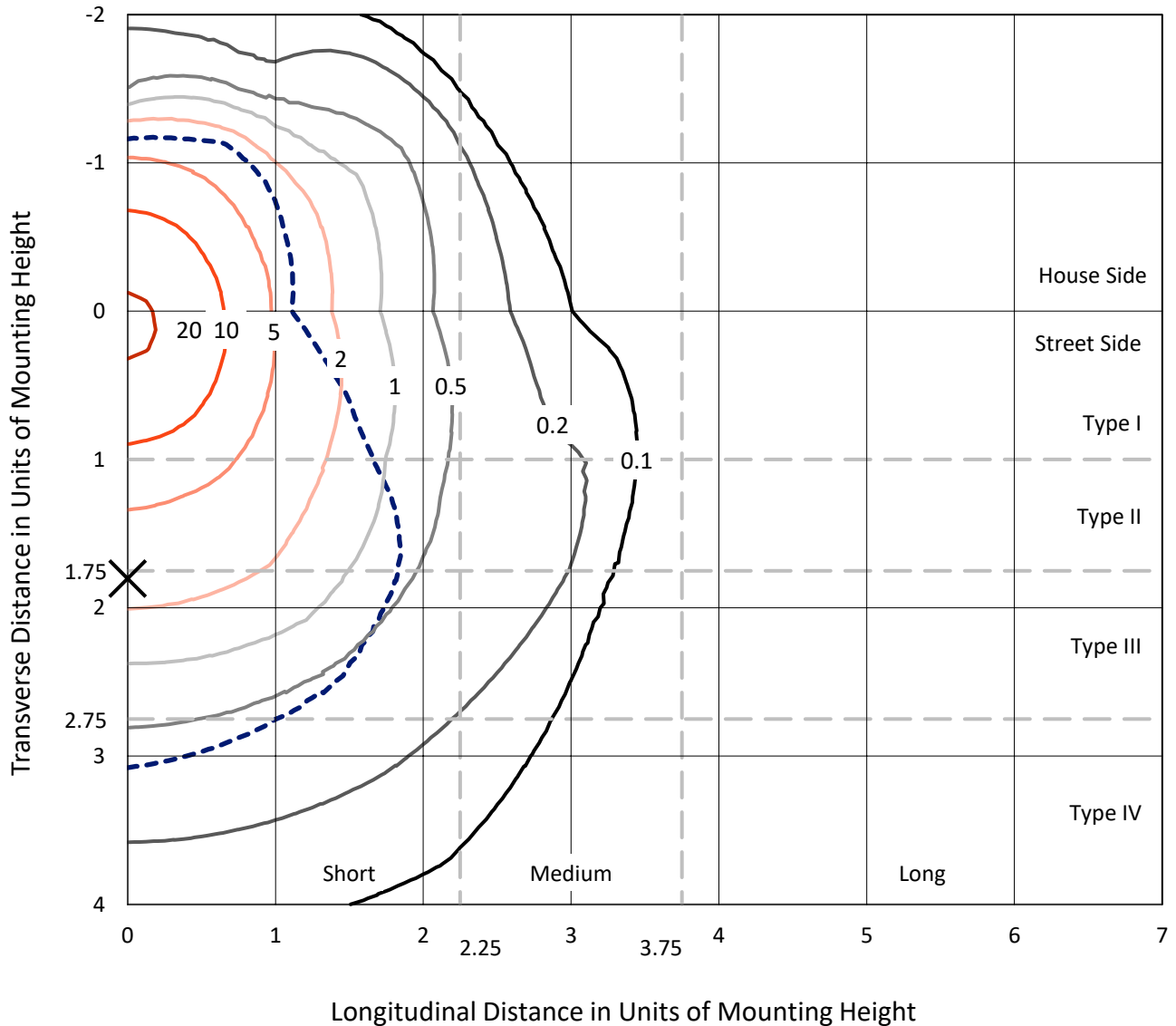
Input Watts (W): 39.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

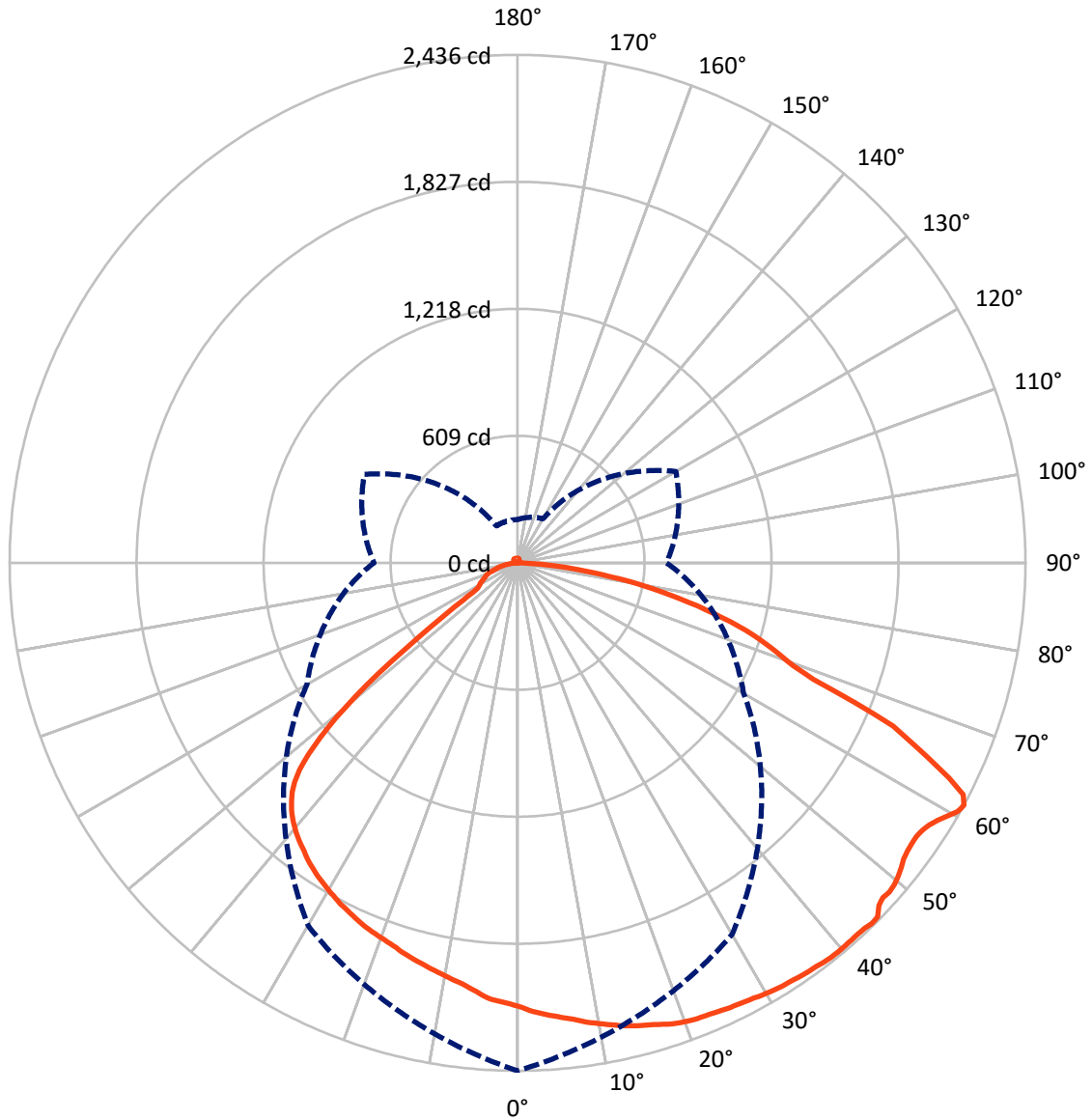
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.6 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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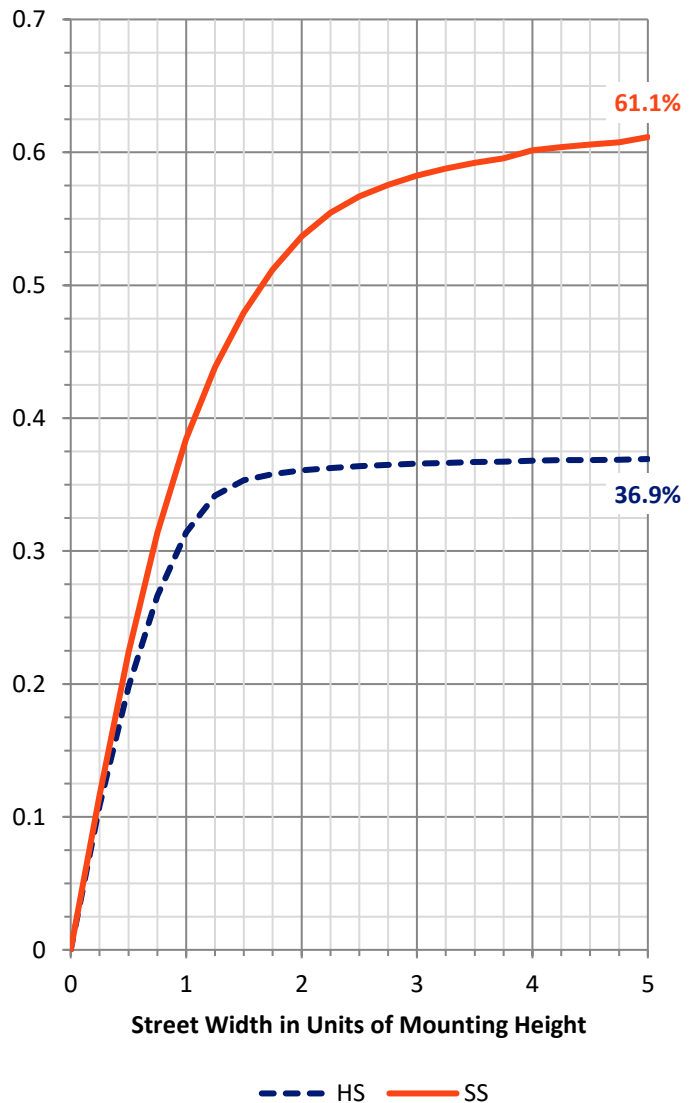
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2530.7	45.2	2575.9
	% Fixture	37.2	0.7	37.9
Street Side	Lumens	4199.9	28.3	4228.2
	% Fixture	61.7	0.4	62.1
Total	Lumens	6730.5	73.5	6804.0
	% Fixture	98.9	1.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	3.0
10°-20°	589.2	8.7
20°-30°	919.5	13.5
30°-40°	1161.2	17.1
40°-50°	1280.1	18.8
50°-60°	1156.5	17.0
60°-70°	873.6	12.8
70°-80°	442.1	6.5
80°-90°	105.9	1.6
90°-100°	3.9	0.1
100°-110°	6.9	0.1
110°-120°	9.9	0.1
120°-130°	11.8	0.2
130°-140°	12.4	0.2
140°-150°	11.4	0.2
150°-160°	9.2	0.1
160°-170°	5.9	0.1
170°-180°	2.1	0.0
0°-90°	6730.5	98.9
0°-180°	6804.0	100.0

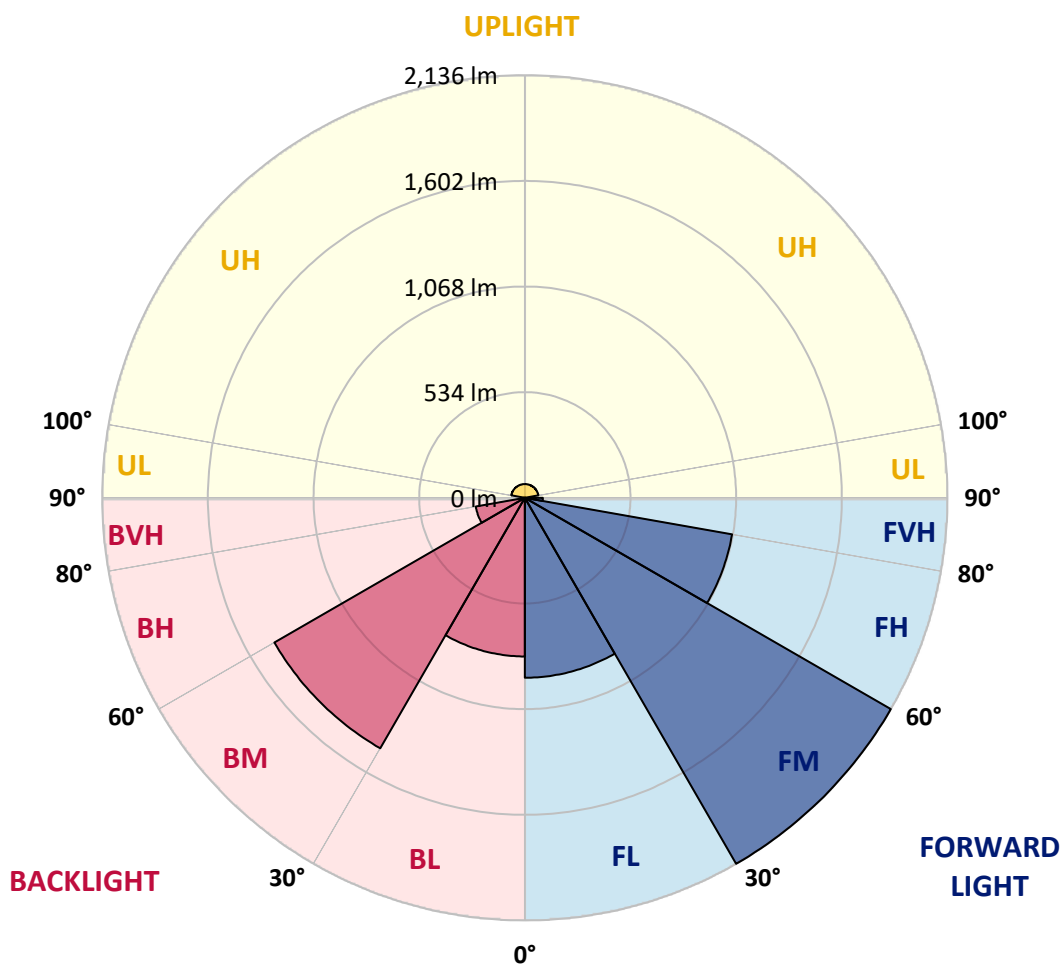


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.3	13.4			
FM (30°-60°)	2136.0	31.4			
FH (60°-80°)	1063.8	15.6			G1/1800
FVH (80°-90°)	90.8	1.3			G1/100
BL (0°-30°)	801.9	11.8	B2/1000		
BM (30°-60°)	1461.8	21.5	B2/2500		
BH (60°-80°)	252.0	3.7	B1/500		G1/500
BVH (80°-90°)	15.0	0.2			G1/100
UL (90°-100°)	3.9	0.1		U1/10	
UH (100°-180°)	69.5	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°	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2
1°	2147.3	2144.0	2138.0	2130.9	2128.6	2120.0	2120.5	2119.9	2126.1	2129.3	2138.5
2°	2158.4	2153.4	2141.4	2129.7	2119.0	2110.5	2110.8	2110.6	2119.7	2130.4	2139.4
3°	2169.1	2162.1	2146.0	2129.5	2112.5	2103.6	2103.9	2102.4	2108.5	2127.7	2142.4
4°	2179.9	2171.2	2149.4	2126.5	2105.6	2095.9	2097.1	2097.1	2102.0	2123.6	2146.1
5°	2189.6	2178.3	2152.3	2123.8	2098.0	2088.8	2083.1	2088.2	2094.6	2119.3	2147.0
6°	2200.1	2186.2	2156.5	2119.9	2090.4	2079.4	2064.7	2073.6	2087.3	2110.0	2152.1
7°	2212.2	2195.1	2158.4	2114.8	2083.7	2061.6	2050.5	2053.8	2079.7	2104.1	2153.1
8°	2226.2	2205.5	2160.0	2108.8	2075.6	2045.1	2036.2	2040.0	2070.6	2096.8	2153.6
9°	2238.3	2215.2	2161.2	2098.8	2066.5	2030.0	2026.3	2028.6	2060.4	2089.3	2153.8
10°	2249.4	2224.7	2162.1	2091.8	2056.4	2018.2	2015.8	2017.8	2045.8	2081.7	2153.1
11°	2260.8	2232.6	2161.1	2083.1	2044.3	2006.0	2005.3	2003.5	2030.6	2072.2	2151.0
12°	2273.7	2242.4	2158.9	2073.3	2027.1	1995.2	1995.3	1992.6	2015.2	2061.8	2149.1
13°	2282.8	2248.7	2157.5	2065.9	2011.6	1984.4	1986.3	1981.7	1999.0	2048.7	2147.9
14°	2293.3	2253.9	2156.4	2054.5	1994.8	1973.6	1976.0	1973.7	1980.2	2036.6	2142.6
15°	2300.2	2258.1	2153.7	2043.0	1978.3	1963.0	1967.0	1962.6	1964.2	2024.3	2138.6
16°	2309.8	2264.6	2152.7	2026.4	1962.4	1951.9	1957.1	1950.8	1947.7	2010.7	2133.6
17°	2319.9	2270.5	2149.1	2013.3	1945.9	1936.6	1948.3	1939.1	1932.0	1994.2	2130.2
18°	2332.4	2275.7	2144.0	1999.7	1928.7	1924.8	1935.2	1923.9	1917.1	1979.0	2124.0
19°	2339.5	2282.5	2134.9	1985.2	1912.5	1912.5	1926.3	1912.2	1900.8	1963.5	2116.6
20°	2345.1	2285.8	2127.3	1968.8	1892.7	1901.2	1916.8	1901.1	1884.6	1948.0	2103.0
21°	2349.7	2286.4	2118.5	1952.4	1875.1	1890.8	1909.2	1890.1	1862.8	1931.7	2092.1
22°	2351.1	2283.6	2108.5	1935.8	1857.7	1879.5	1902.0	1878.9	1846.3	1914.1	2080.0
23°	2354.8	2281.3	2096.8	1917.2	1838.3	1867.8	1893.2	1867.8	1828.8	1896.4	2068.0
24°	2358.8	2279.4	2085.4	1899.0	1820.8	1853.4	1883.7	1856.9	1811.3	1873.5	2056.3
25°	2363.8	2277.2	2073.0	1879.4	1802.4	1842.3	1872.9	1845.4	1792.7	1854.0	2043.1
26°	2366.9	2275.9	2061.0	1860.0	1784.1	1831.1	1862.8	1832.9	1774.0	1833.2	2028.2
27°	2371.2	2274.3	2047.5	1835.2	1764.9	1819.4	1851.8	1820.3	1756.2	1810.8	2013.8
28°	2375.0	2271.3	2032.4	1813.0	1746.2	1805.0	1842.5	1806.7	1734.9	1787.7	1995.9
29°	2382.3	2268.5	2016.8	1789.8	1726.8	1790.4	1830.0	1790.4	1715.7	1764.0	1979.3
30°	2387.1	2266.0	1996.3	1766.6	1706.5	1776.4	1818.5	1776.7	1695.5	1739.7	1961.7
31°	2391.6	2262.5	1980.0	1742.6	1682.0	1762.9	1806.8	1763.5	1675.2	1713.1	1940.1
32°	2395.8	2260.2	1963.2	1719.1	1661.2	1749.6	1794.1	1749.8	1651.1	1687.7	1922.3
33°	2398.2	2254.6	1946.3	1695.2	1640.5	1736.0	1782.5	1736.2	1630.7	1662.2	1903.4
34°	2402.5	2254.4	1928.6	1670.7	1619.8	1720.4	1768.7	1721.1	1609.5	1631.9	1883.6
35°	2406.0	2252.8	1909.4	1641.6	1597.5	1705.4	1754.6	1706.0	1587.8	1604.4	1863.9
36°	2408.8	2252.6	1889.1	1613.9	1576.2	1685.9	1739.7	1689.4	1564.6	1575.2	1841.4
37°	2414.4	2254.4	1868.1	1584.7	1553.4	1669.5	1720.7	1669.5	1541.1	1544.8	1819.3
38°	2416.3	2251.2	1842.3	1554.7	1529.0	1652.6	1705.2	1652.1	1516.8	1512.6	1796.7
39°	2417.7	2248.2	1819.6	1519.5	1500.7	1635.4	1688.8	1634.8	1492.6	1481.5	1767.8
40°	2417.0	2243.4	1796.7	1487.3	1475.5	1618.2	1670.9	1615.7	1465.4	1449.2	1743.4
41°	2415.7	2236.4	1774.0	1454.9	1451.5	1600.1	1650.7	1597.2	1441.1	1416.6	1718.4
42°	2415.0	2230.6	1748.3	1421.1	1425.3	1581.6	1628.6	1577.7	1416.7	1385.0	1692.9
43°	2417.3	2224.6	1725.0	1389.0	1400.7	1562.4	1604.1	1558.3	1392.3	1348.3	1667.0
44°	2424.5	2218.7	1701.9	1355.2	1376.0	1539.2	1574.5	1535.4	1366.1	1316.7	1642.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	2421.3	2214.3	1679.7	1321.3	1351.1	1518.6	1542.8	1512.0	1340.6	1283.8	1617.9
46°	2388.3	2212.0	1657.2	1282.1	1324.8	1496.3	1498.8	1485.7	1316.1	1247.6	1594.6
47°	2375.9	2211.6	1635.4	1247.6	1299.3	1467.9	1441.3	1456.9	1288.4	1213.5	1569.3
48°	2382.1	2196.0	1613.4	1212.9	1273.3	1439.4	1359.4	1421.8	1263.4	1179.3	1546.3
49°	2376.7	2155.9	1591.3	1178.2	1247.8	1408.9	1263.4	1386.1	1237.8	1146.2	1522.9
50°	2364.6	2145.0	1564.4	1141.5	1221.4	1375.2	1146.9	1338.4	1212.3	1108.7	1496.1
51°	2350.8	2143.8	1542.0	1106.2	1190.8	1328.1	1006.1	1276.7	1185.7	1072.2	1471.9
52°	2333.1	2125.1	1518.1	1071.0	1164.8	1269.8	851.7	1194.3	1155.4	1037.3	1447.7
53°	2325.3	2104.2	1492.3	1034.3	1139.0	1197.7	676.5	1098.4	1128.7	1001.2	1421.0
54°	2321.1	2082.5	1467.1	993.4	1111.0	1107.1	532.0	980.7	1101.2	960.2	1392.4
55°	2319.7	2064.8	1444.9	956.8	1083.6	981.8	412.6	842.5	1072.2	923.4	1367.5
56°	2326.9	2052.9	1422.9	919.2	1055.4	847.9	317.9	675.1	1040.4	885.9	1343.5
57°	2340.5	2043.2	1400.5	876.2	1022.0	700.0	257.8	528.7	1008.3	847.9	1320.3
58°	2362.9	2038.8	1370.5	835.9	990.5	537.3	226.5	404.2	973.5	806.1	1290.8
59°	2392.2	2036.1	1320.0	796.4	956.4	408.4	217.6	309.6	932.2	765.8	1244.3
60°	2424.3	2039.6	1280.3	756.7	919.9	310.9	212.1	239.0	891.7	726.1	1198.8
61°	2435.9	2057.8	1251.4	714.2	876.4	244.0	207.4	204.2	848.0	688.6	1165.9
62°	2409.0	2089.2	1212.5	677.1	832.7	201.1	201.4	193.3	803.2	647.8	1125.6
63°	2312.1	2128.8	1163.7	641.9	786.9	189.4	193.9	186.9	748.6	613.2	1075.6
64°	2190.5	2144.0	1109.5	606.2	740.0	182.8	186.6	181.3	685.8	579.7	1022.1
65°	2074.2	2089.1	1060.2	566.8	682.1	176.7	180.5	174.3	609.3	546.1	969.0
66°	1963.4	1964.0	1010.0	531.5	615.7	169.3	174.1	166.6	514.4	509.1	911.5
67°	1750.3	1816.0	954.5	497.0	534.9	161.8	168.4	158.2	390.4	474.5	859.6
68°	1524.6	1683.7	912.2	457.8	420.7	154.0	164.0	150.6	281.0	438.6	811.8
69°	1412.2	1466.5	877.9	420.8	306.3	145.6	159.4	143.2	196.9	398.9	766.2
70°	1343.5	1279.6	854.6	382.7	213.9	138.0	153.3	136.6	147.2	362.1	733.5
71°	1280.4	1192.3	858.1	341.0	151.6	131.7	145.4	131.1	127.8	325.6	718.1
72°	1214.2	1140.5	993.8	304.1	129.4	126.3	134.3	124.8	120.2	289.9	778.5
73°	1141.9	1088.7	1157.0	269.3	120.5	119.1	124.0	117.2	112.2	251.8	1015.8
74°	1058.1	1034.2	895.6	236.8	112.0	111.3	113.9	109.9	103.6	219.2	859.4
75°	973.1	979.7	570.2	203.2	102.7	103.9	104.3	100.3	96.6	188.7	519.5
76°	887.9	917.4	474.5	174.5	95.0	94.5	98.0	90.9	89.5	160.8	406.1
77°	798.0	849.7	420.9	148.8	87.4	85.4	92.3	80.9	82.5	136.1	354.4
78°	714.7	784.4	418.8	124.7	80.1	75.1	86.5	71.5	75.7	112.4	343.4
79°	628.9	731.4	415.8	101.7	72.1	66.3	75.7	65.0	69.1	92.6	365.9
80°	544.3	677.1	323.4	83.1	65.6	59.5	67.3	59.1	62.9	74.8	268.3
81°	452.1	608.7	217.6	67.3	59.4	53.5	59.9	53.0	55.2	59.0	175.0
82°	370.6	525.8	181.8	52.7	50.8	47.6	49.7	45.9	47.4	44.2	145.7
83°	295.0	437.9	160.4	38.9	42.8	40.4	38.2	39.6	38.7	33.9	130.5
84°	228.5	378.0	140.6	29.1	34.6	33.7	28.6	33.2	31.4	26.0	114.9
85°	161.0	320.0	119.9	21.4	27.3	27.4	23.2	25.0	24.2	19.1	98.1
86°	109.0	230.7	99.9	14.9	20.1	19.6	14.9	17.8	19.2	13.0	78.2
87°	64.6	157.6	71.0	9.1	14.6	12.0	9.5	11.5	13.4	8.5	54.4
88°	21.6	60.4	28.6	4.7	8.7	6.6	7.2	7.6	8.2	4.9	17.5
89°	1.8	1.2	1.7	1.9	3.8	3.8	6.2	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	7.1	6.8	4.5	2.3	2.0
92°	0.7	0.7	0.8	0.9	2.3	3.2	7.7	7.3	4.8	2.5	2.1
93°	0.8	0.8	0.9	1.1	2.4	3.5	8.3	7.8	5.2	2.7	2.4
94°	0.8	0.8	1.0	1.2	2.6	3.9	8.8	8.3	5.5	2.8	2.5
95°	0.8	0.8	1.2	1.4	2.8	4.4	9.5	8.8	5.9	3.1	2.7
96°	0.8	0.8	1.2	1.5	3.0	4.6	10.1	9.4	6.2	3.4	3.0
97°	1.0	0.9	1.3	1.7	3.3	5.2	10.8	9.8	6.7	3.7	3.2
98°	0.9	0.9	1.5	1.8	3.7	5.5	11.3	10.4	7.0	3.9	3.4
99°	1.0	1.0	1.7	2.0	3.9	6.0	11.9	10.9	7.3	4.2	3.8
100°	1.0	1.1	1.8	2.1	4.2	6.3	12.5	11.4	7.8	4.5	4.0
101°	1.1	1.2	2.0	2.4	4.4	6.7	13.1	12.0	8.2	4.8	4.2
102°	1.1	1.3	2.1	2.6	4.8	7.2	13.6	12.4	8.6	5.1	4.5
103°	1.2	1.5	2.3	2.9	5.0	7.5	14.3	12.9	9.0	5.5	4.8
104°	1.3	1.6	2.5	3.0	5.4	8.0	14.7	13.4	9.4	5.8	5.1
105°	1.5	1.7	2.7	3.2	5.7	8.5	15.3	13.9	9.8	6.1	5.5
106°	1.5	2.0	2.9	3.5	6.1	8.9	15.9	14.4	10.1	6.4	5.7
107°	1.7	2.1	3.1	3.8	6.3	9.4	16.4	15.0	10.5	6.7	6.1
108°	1.9	2.4	3.5	4.0	6.8	9.9	16.9	15.5	10.8	7.1	6.3
109°	2.1	2.6	3.7	4.3	7.0	10.4	17.3	15.9	11.3	7.5	6.8
110°	2.3	2.9	4.1	4.6	7.4	10.8	17.9	16.4	11.7	7.8	7.1
111°	2.5	3.2	4.3	4.8	7.7	11.3	18.3	16.9	12.1	8.3	7.4
112°	2.8	3.4	4.5	5.1	8.0	11.8	19.0	17.2	12.5	8.5	7.8
113°	3.1	3.7	4.8	5.4	8.4	12.1	19.2	17.6	12.8	9.0	8.2
114°	3.3	4.0	5.0	5.7	8.8	12.5	19.5	17.9	13.2	9.2	8.4
115°	3.5	4.3	5.3	6.1	9.2	13.0	20.0	18.3	13.5	9.7	8.8
116°	3.9	4.6	5.6	6.2	9.5	13.4	20.4	18.6	14.0	10.1	9.2
117°	4.2	4.9	5.9	6.6	9.9	13.8	20.6	19.0	14.3	10.4	9.4
118°	4.5	5.2	6.2	7.0	10.2	14.1	20.9	19.1	14.5	10.7	9.9
119°	4.9	5.6	6.4	7.3	10.6	14.3	21.2	19.3	14.9	11.1	10.2
120°	5.3	6.0	6.8	7.6	10.8	14.9	21.4	19.7	15.3	11.5	10.5
121°	5.6	6.4	7.0	8.0	11.3	15.3	21.6	19.9	15.5	11.9	10.9
122°	6.1	6.7	7.4	8.3	11.7	15.5	21.7	20.1	15.9	12.1	11.2
123°	6.4	7.1	7.7	8.5	12.0	16.0	21.9	20.4	16.1	12.5	11.5
124°	6.9	7.4	8.0	8.8	12.4	16.3	22.2	20.6	16.4	12.9	11.9
125°	7.4	7.8	8.3	9.2	12.7	16.6	22.3	20.8	16.7	13.2	12.3
126°	7.7	8.2	8.6	9.6	13.0	16.9	22.5	20.9	17.0	13.5	12.6
127°	8.1	8.5	9.0	9.9	13.3	17.2	22.6	21.1	17.2	13.8	13.0
128°	8.4	8.9	9.3	10.2	13.7	17.6	22.7	21.3	17.5	14.1	13.3
129°	8.9	9.1	9.7	10.5	14.0	17.8	22.8	21.4	17.7	14.4	13.6
130°	9.3	9.5	10.0	10.8	14.3	18.2	22.9	21.5	17.9	14.7	14.0
131°	9.6	9.7	10.3	11.2	14.6	18.5	22.9	21.7	18.2	15.1	14.2
132°	9.9	10.1	10.6	11.5	14.9	18.7	23.0	21.9	18.3	15.3	14.4
133°	10.3	10.5	10.8	11.9	15.2	19.0	23.1	22.0	18.5	15.7	14.7
134°	10.6	10.8	11.2	12.1	15.6	19.3	23.1	22.0	18.7	16.0	15.1



REPORT NUMBER: P1449850
 CATALOG NUMBER: TWC100_T4_80W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	10.9	11.1	11.5	12.5	15.8	19.6	23.3	22.1	19.0	16.2	15.5
136°	11.2	11.4	11.9	12.8	16.1	19.8	23.3	22.2	19.1	16.4	15.6
137°	11.5	11.7	12.2	13.2	16.3	20.1	23.3	22.3	19.3	16.7	16.0
138°	11.9	12.1	12.6	13.4	16.4	20.2	23.3	22.2	19.4	17.0	16.2
139°	12.1	12.4	12.8	13.9	16.7	20.4	23.3	22.3	19.6	17.3	16.4
140°	12.4	12.7	13.2	14.1	16.9	20.5	23.4	22.5	19.8	17.5	16.7
141°	12.7	13.0	13.5	14.3	17.1	20.6	23.2	22.5	20.0	17.8	16.9
142°	13.0	13.2	13.9	14.6	17.3	20.9	23.3	22.4	20.1	17.9	17.1
143°	13.3	13.6	14.3	14.9	17.6	20.9	23.3	22.5	20.2	18.2	17.3
144°	13.6	13.9	14.4	15.2	17.9	21.1	23.2	22.5	20.4	18.5	17.6
145°	14.1	14.3	14.8	15.5	17.9	21.1	23.1	22.5	20.6	18.5	17.8
146°	14.3	14.7	15.1	15.7	18.2	21.2	23.2	22.6	20.7	18.9	18.0
147°	14.7	14.9	15.4	15.9	18.4	21.3	23.1	22.5	20.8	19.1	18.4
148°	15.1	15.5	15.6	16.3	18.6	21.3	23.1	22.5	21.0	19.2	18.5
149°	15.5	15.6	16.0	16.5	18.9	21.3	23.2	22.7	21.1	19.4	18.6
150°	15.9	16.0	16.2	16.8	19.1	21.5	23.1	22.7	21.2	19.7	18.9
151°	16.2	16.3	16.4	17.0	19.2	21.5	23.1	22.7	21.3	19.9	19.1
152°	16.6	16.6	16.6	17.3	19.4	21.7	23.0	22.7	21.4	20.0	19.3
153°	16.8	16.9	16.8	17.5	19.5	21.6	22.9	22.7	21.6	20.2	19.4
154°	17.2	17.2	17.2	17.7	19.7	21.7	23.0	22.7	21.6	20.2	19.5
155°	17.5	17.3	17.5	18.0	19.8	21.8	23.0	22.7	21.8	20.5	19.7
156°	17.8	17.6	17.7	18.2	20.0	21.9	22.8	22.7	21.8	20.6	19.9
157°	17.9	17.8	17.9	18.4	20.1	22.0	22.7	22.6	21.8	20.7	20.1
158°	18.2	18.0	18.0	18.7	20.4	22.1	22.7	22.6	21.8	20.9	20.2
159°	18.4	18.2	18.3	18.9	20.5	22.1	22.7	22.6	21.9	21.1	20.4
160°	18.6	18.3	18.4	19.0	20.7	22.1	22.6	22.6	22.0	21.1	20.5
161°	18.8	18.5	18.6	19.3	20.8	22.2	22.5	22.5	22.0	21.3	20.6
162°	19.0	18.7	19.0	19.4	20.9	22.2	22.4	22.5	22.1	21.3	20.8
163°	19.0	18.9	19.0	19.7	21.1	22.2	22.4	22.5	22.0	21.4	20.9
164°	19.2	18.9	19.2	19.9	21.3	22.2	22.4	22.4	22.1	21.5	21.1
165°	19.4	19.3	19.5	20.0	21.4	22.4	22.3	22.4	22.1	21.6	21.2
166°	19.5	19.4	19.7	20.2	21.4	22.3	22.3	22.3	22.2	21.6	21.2
167°	19.7	19.7	19.8	20.4	21.5	22.4	22.2	22.4	22.2	21.7	21.3
168°	19.8	19.8	20.1	20.5	21.6	22.4	22.2	22.3	22.2	21.8	21.5
169°	20.0	20.0	20.2	20.7	21.8	22.5	22.2	22.3	22.2	21.9	21.5
170°	20.1	20.1	20.4	20.9	21.8	22.4	22.2	22.3	22.3	22.0	21.7
171°	20.4	20.3	20.6	21.1	21.9	22.5	22.3	22.3	22.2	22.1	21.8
172°	20.6	20.5	20.7	21.3	22.0	22.4	22.2	22.2	22.2	22.2	21.8
173°	20.8	20.6	20.8	21.5	22.0	22.3	22.3	22.4	22.2	22.2	21.9
174°	21.0	20.8	21.1	21.6	22.1	22.5	22.3	22.3	22.1	22.3	22.1
175°	21.2	20.9	21.4	21.6	22.3	22.5	22.2	22.1	22.2	22.3	22.1
176°	21.4	21.2	21.3	21.9	22.3	22.6	22.2	22.2	22.1	22.2	22.2
177°	21.5	21.3	21.6	22.0	22.3	22.5	22.2	22.0	22.1	22.3	22.3
178°	21.7	21.5	21.6	22.0	22.5	22.5	22.1	21.9	22.1	22.3	22.3
179°	21.8	21.6	21.8	22.1	22.4	22.4	22.1	22.0	22.1	22.4	22.3



REPORT NUMBER: P1449850
CATALOG NUMBER: TWC100_T4_80W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1



REPORT NUMBER: P1449850
CATALOG NUMBER: TWC100_T4_80W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	2131.2	2131.2
1°	2142.0	2147.3
2°	2150.7	2158.4
3°	2160.0	2169.1
4°	2168.1	2179.9
5°	2176.2	2189.6
6°	2185.1	2200.1
7°	2193.5	2212.2
8°	2202.1	2226.2
9°	2210.7	2238.3
10°	2218.2	2249.4
11°	2225.8	2260.8
12°	2235.7	2273.7
13°	2241.0	2282.8
14°	2246.8	2293.3
15°	2248.0	2300.2
16°	2253.3	2309.8
17°	2259.2	2319.9
18°	2262.0	2332.4
19°	2266.9	2339.5
20°	2268.6	2345.1
21°	2267.7	2349.7
22°	2265.3	2351.1
23°	2262.8	2354.8
24°	2259.7	2358.8
25°	2257.1	2363.8
26°	2253.0	2366.9
27°	2249.4	2371.2
28°	2246.0	2375.0
29°	2241.2	2382.3
30°	2240.8	2387.1
31°	2237.1	2391.6
32°	2234.0	2395.8
33°	2231.3	2398.2
34°	2225.9	2402.5
35°	2224.4	2406.0
36°	2223.1	2408.8
37°	2222.3	2414.4
38°	2217.6	2416.3
39°	2214.0	2417.7
40°	2208.4	2417.0
41°	2201.9	2415.7
42°	2195.2	2415.0
43°	2188.7	2417.3
44°	2181.9	2424.5



REPORT NUMBER: P1449850
CATALOG NUMBER: TWC100_T4_80W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	2174.5	2421.3
46°	2172.1	2388.3
47°	2168.1	2375.9
48°	2139.3	2382.1
49°	2107.4	2376.7
50°	2102.5	2364.6
51°	2095.3	2350.8
52°	2078.6	2333.1
53°	2051.9	2325.3
54°	2030.2	2321.1
55°	2011.5	2319.7
56°	1997.3	2326.9
57°	1987.1	2340.5
58°	1982.0	2362.9
59°	1977.9	2392.2
60°	1984.8	2424.3
61°	2008.8	2435.9
62°	2043.5	2409.0
63°	2076.4	2312.1
64°	2071.6	2190.5
65°	1978.7	2074.2
66°	1842.5	1963.4
67°	1717.7	1750.3
68°	1546.5	1524.6
69°	1319.0	1412.2
70°	1192.4	1343.5
71°	1132.8	1280.4
72°	1074.2	1214.2
73°	1022.9	1141.9
74°	970.7	1058.1
75°	914.4	973.1
76°	841.2	887.9
77°	778.3	798.0
78°	724.3	714.7
79°	672.9	628.9
80°	613.7	544.3
81°	551.1	452.1
82°	463.2	370.6
83°	386.2	295.0
84°	328.0	228.5
85°	250.4	161.0
86°	188.5	109.0
87°	103.9	64.6
88°	6.1	21.6
89°	1.0	1.8



REPORT NUMBER: P1449850
CATALOG NUMBER: TWC100_T4_80W_5000K

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	0.8
97°	1.9	1.0
98°	2.2	0.9
99°	2.5	1.0
100°	2.7	1.0
101°	3.0	1.1
102°	3.3	1.1
103°	3.6	1.2
104°	3.9	1.3
105°	4.1	1.5
106°	4.5	1.5
107°	4.9	1.7
108°	5.2	1.9
109°	5.5	2.1
110°	5.9	2.3
111°	6.3	2.5
112°	6.6	2.8
113°	7.1	3.1
114°	7.5	3.3
115°	8.0	3.5
116°	8.3	3.9
117°	8.8	4.2
118°	9.1	4.5
119°	9.5	4.9
120°	10.0	5.3
121°	10.4	5.6
122°	10.8	6.1
123°	11.2	6.4
124°	11.6	6.9
125°	12.0	7.4
126°	12.3	7.7
127°	12.6	8.1
128°	13.0	8.4
129°	13.3	8.9
130°	13.6	9.3
131°	14.0	9.6
132°	14.3	9.9
133°	14.4	10.3
134°	14.8	10.6



REPORT NUMBER: P1449850
CATALOG NUMBER: TWC100_T4_80W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	15.1	10.9
136°	15.4	11.2
137°	15.6	11.5
138°	16.0	11.9
139°	16.2	12.1
140°	16.5	12.4
141°	16.6	12.7
142°	16.9	13.0
143°	17.1	13.3
144°	17.5	13.6
145°	17.7	14.1
146°	17.8	14.3
147°	17.9	14.7
148°	18.2	15.1
149°	18.3	15.5
150°	18.6	15.9
151°	18.7	16.2
152°	18.9	16.6
153°	19.0	16.8
154°	19.1	17.2
155°	19.3	17.5
156°	19.4	17.8
157°	19.5	17.9
158°	19.7	18.2
159°	19.8	18.4
160°	20.0	18.6
161°	20.0	18.8
162°	20.2	19.0
163°	20.4	19.0
164°	20.5	19.2
165°	20.6	19.4
166°	20.7	19.5
167°	20.8	19.7
168°	20.9	19.8
169°	21.1	20.0
170°	21.2	20.1
171°	21.4	20.4
172°	21.4	20.6
173°	21.6	20.8
174°	21.8	21.0
175°	21.9	21.2
176°	22.0	21.4
177°	22.1	21.5
178°	22.3	21.7
179°	22.4	21.8

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

Scaled Data Report



REPORT NUMBER: P1449850
CATALOG NUMBER: TWC100_T4_80W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	22.1	22.1

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

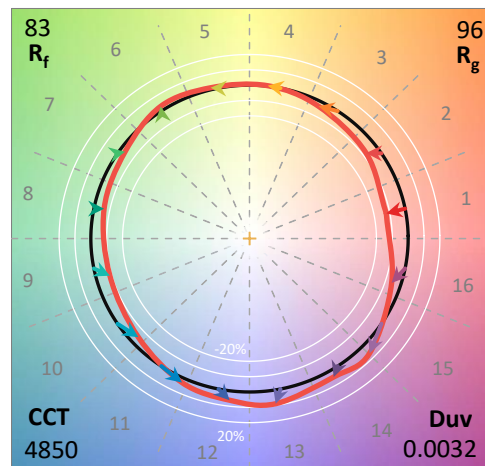
Test Information

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

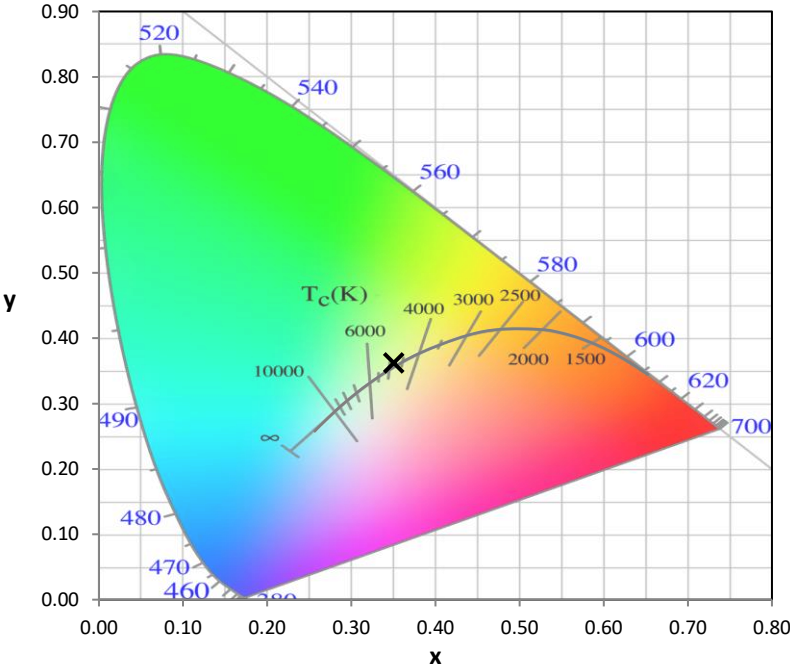
Stabilization Time: 25M
 Operation Time: 1H 25M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

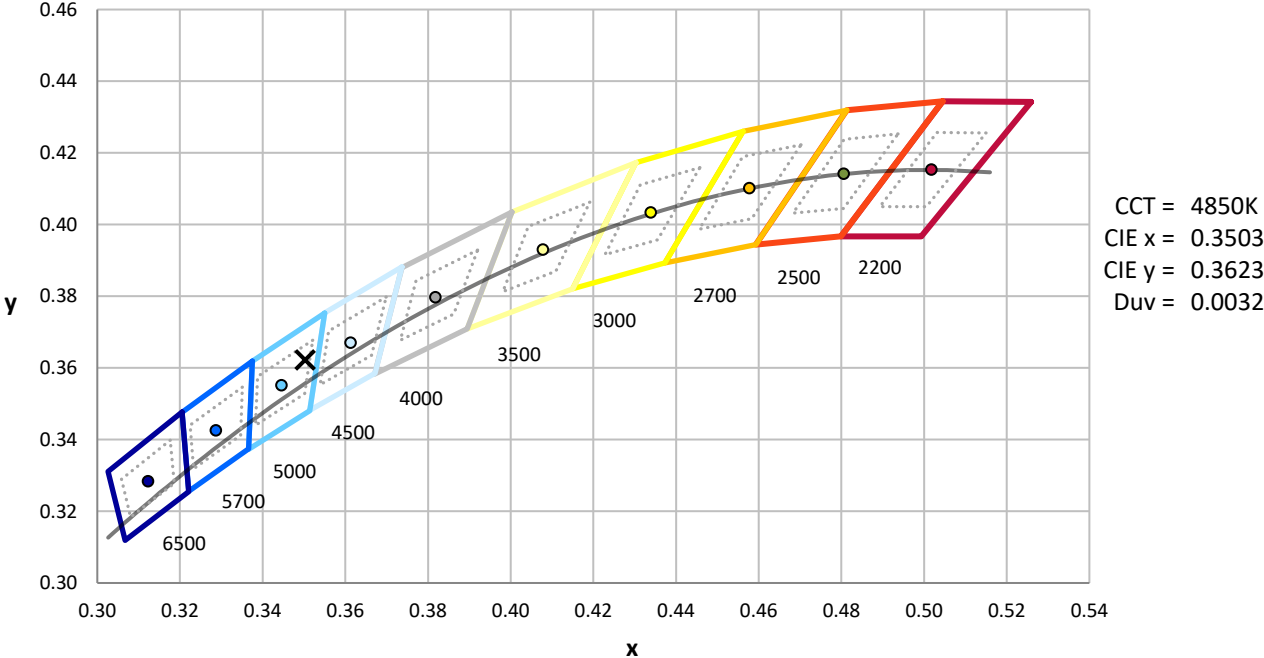
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



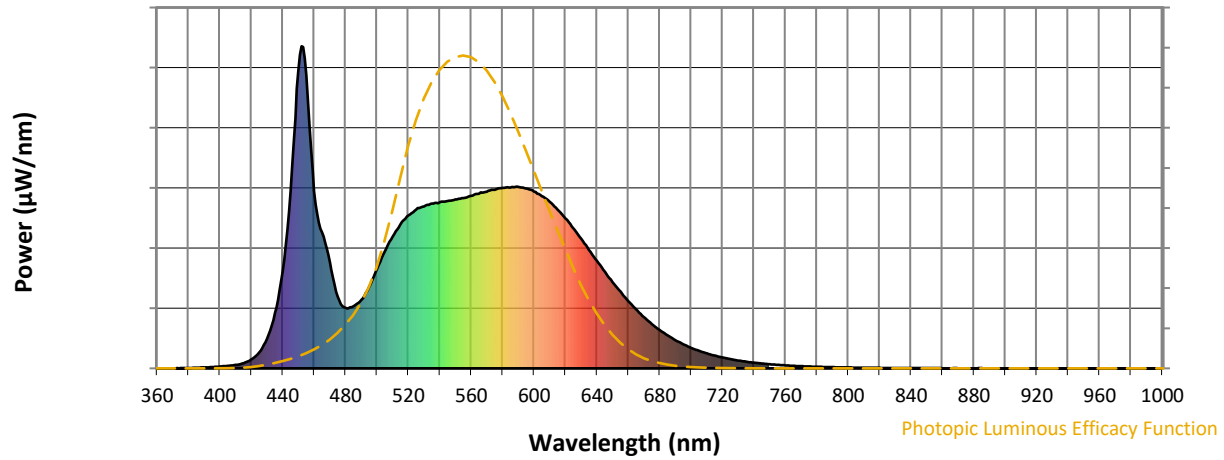
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

Photopic Flux vs. Wavelength

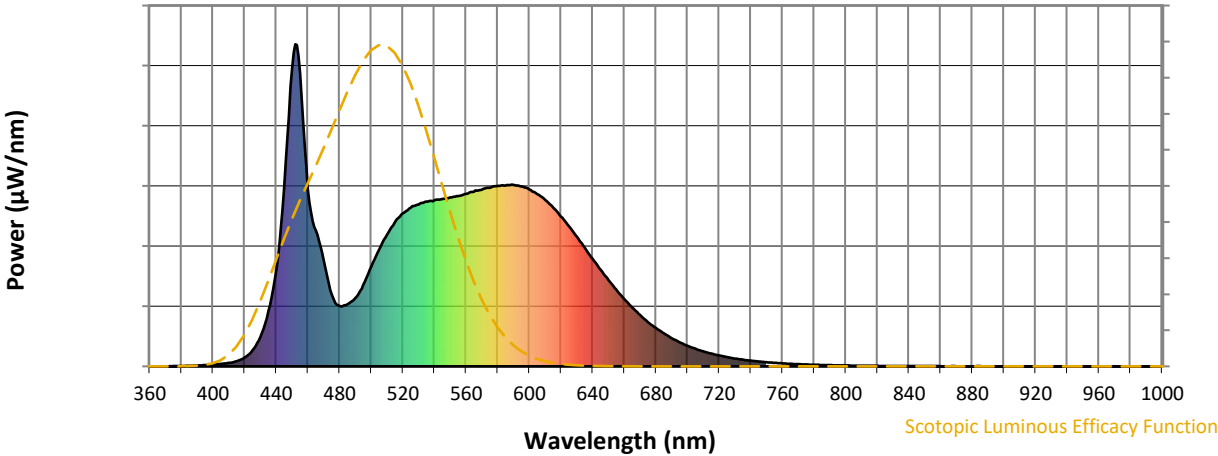


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2601-659-3

Scotopic Flux vs. Wavelength



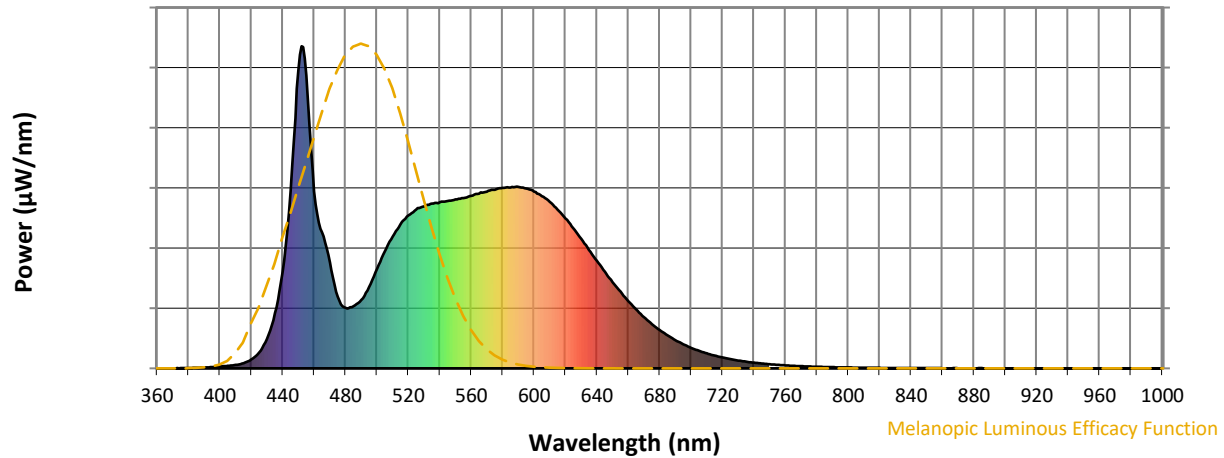
Scotopic Lumens: NR

S/P: 1.9

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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



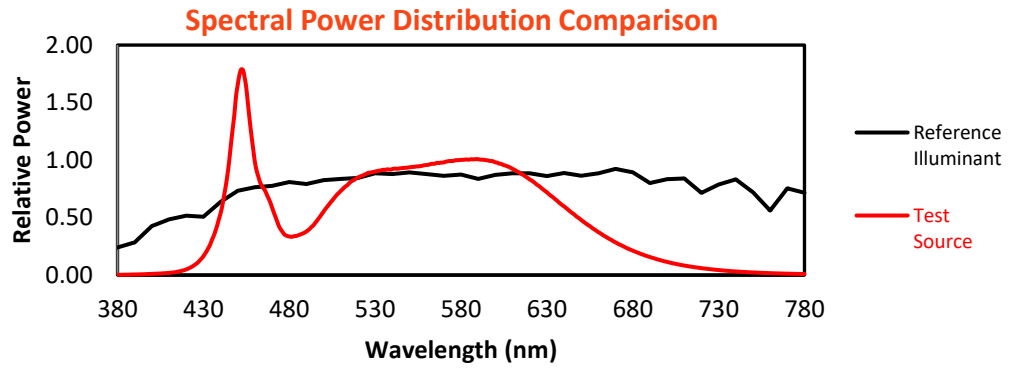
Melanopic Lumens: NR

M/P: 4

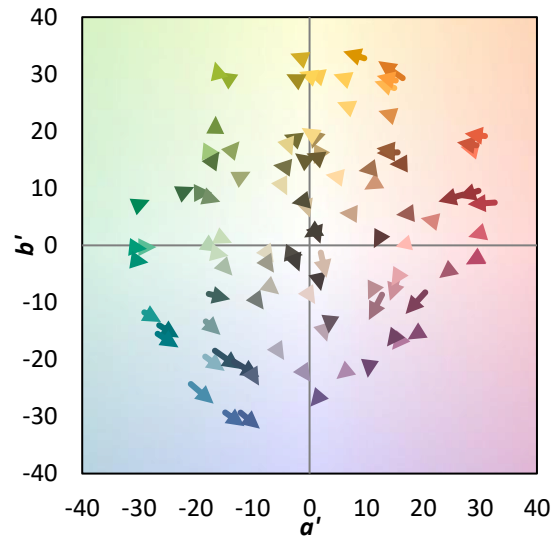
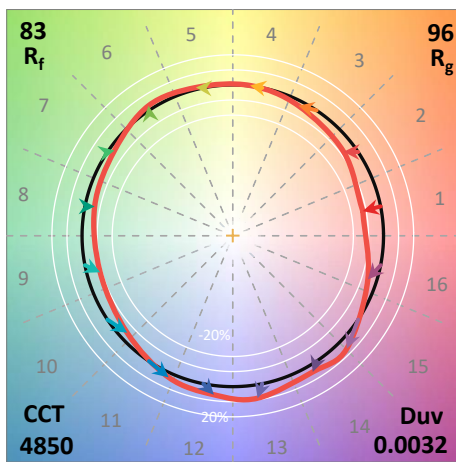
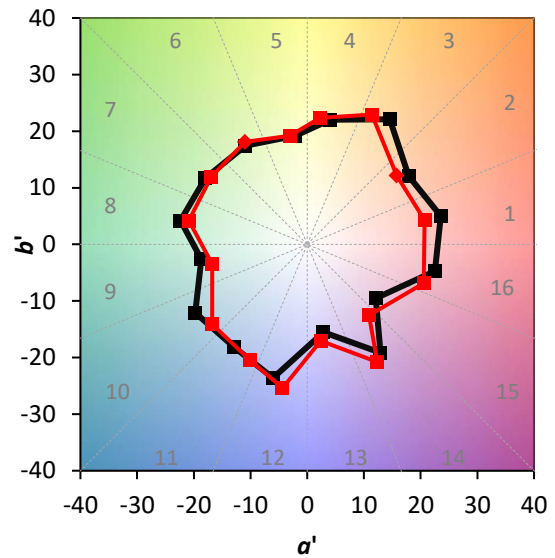
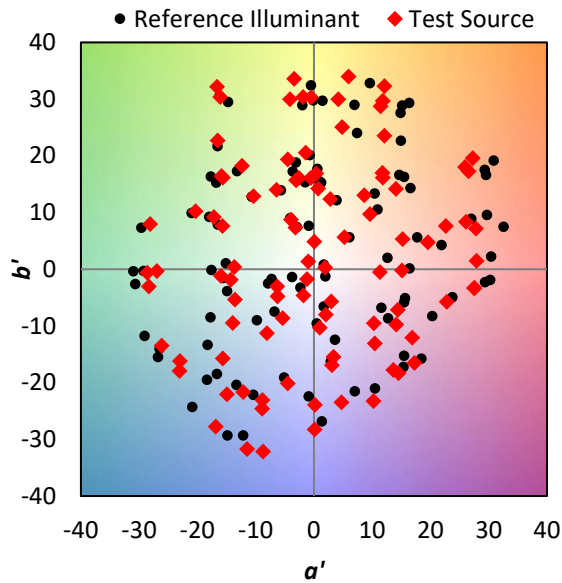
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	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 $R_a = 82.6$
 $R_9 = 8.5$

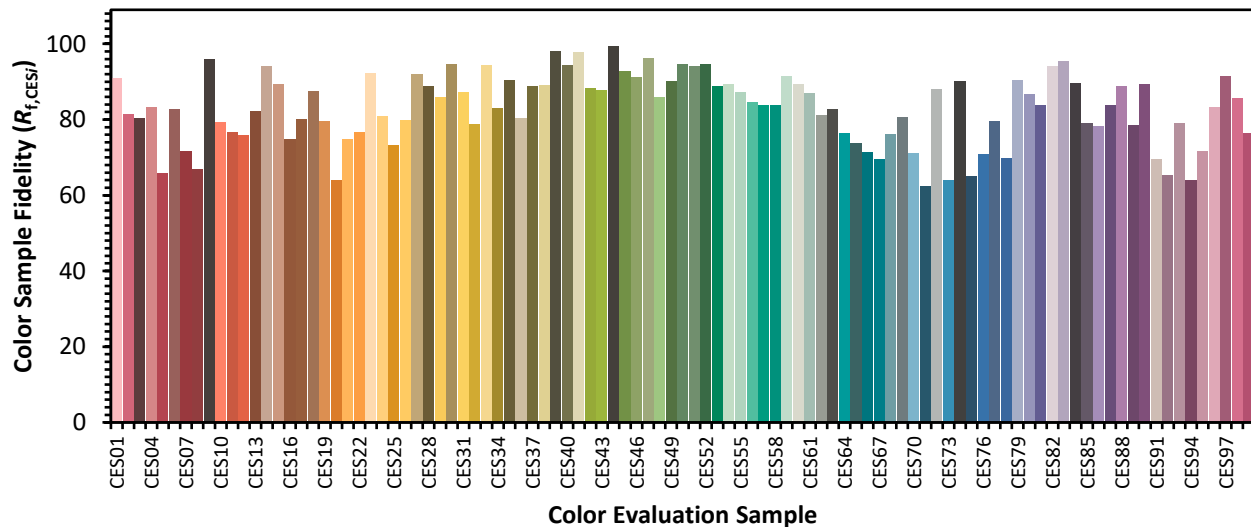


Color Vector Graphics

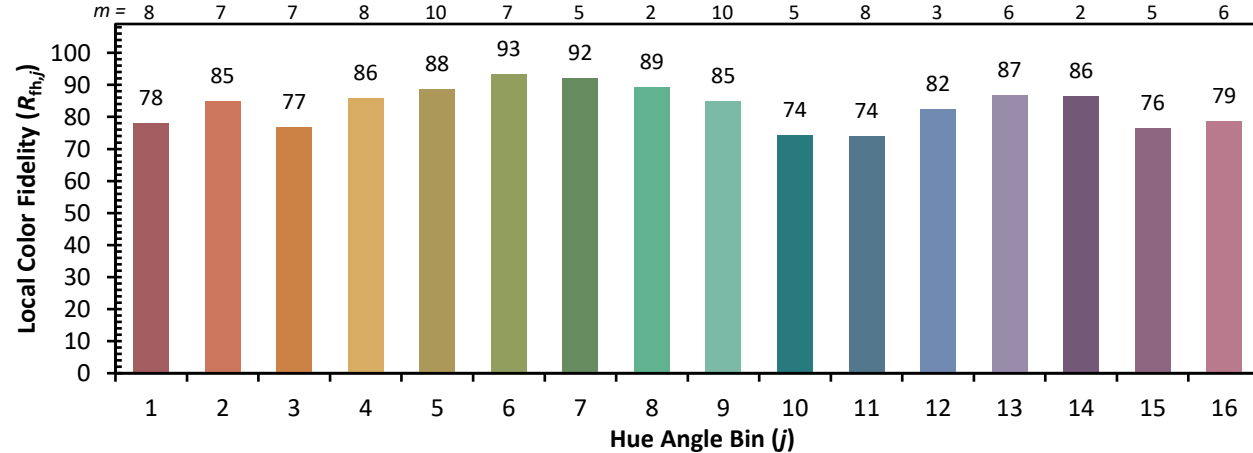
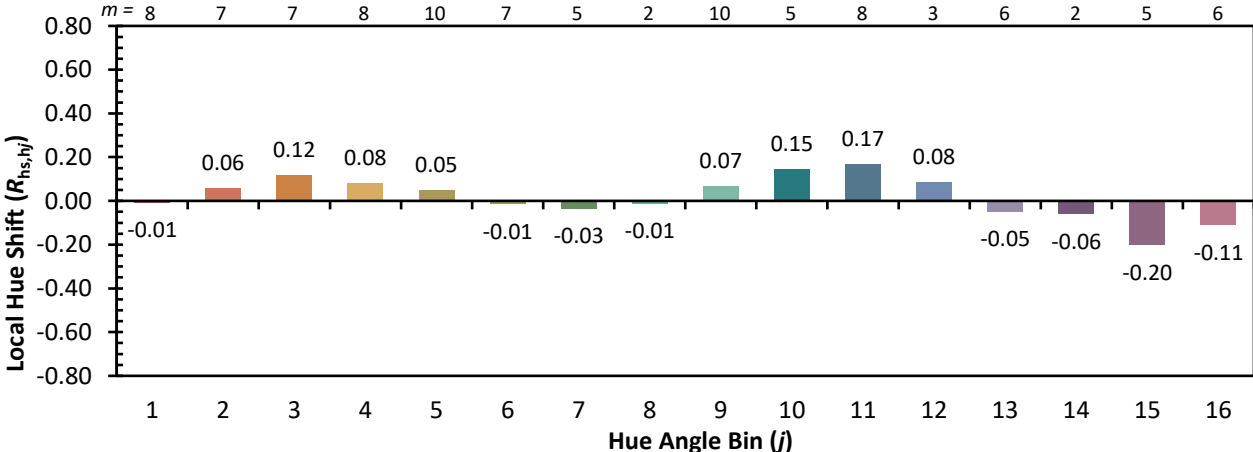
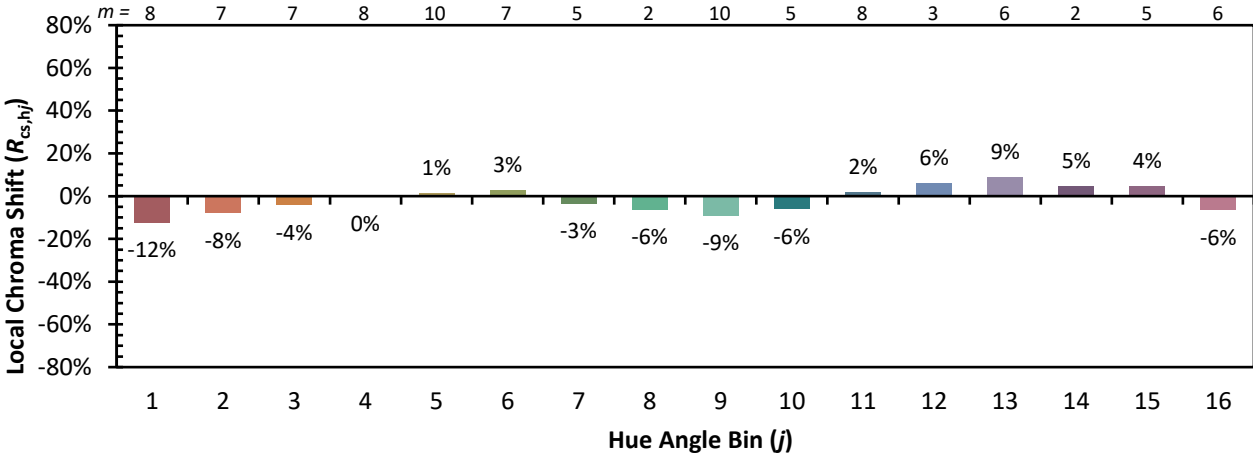


Individual Sample Fidelity Index ($R_{f,i}$)

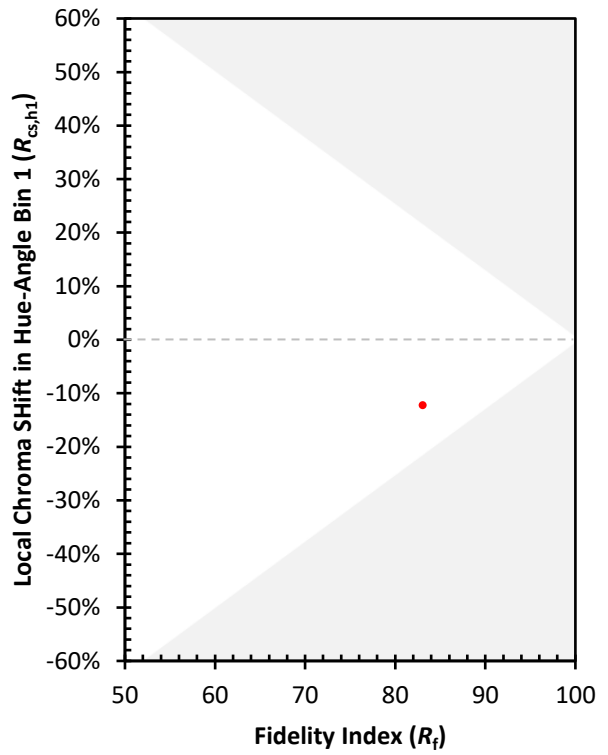
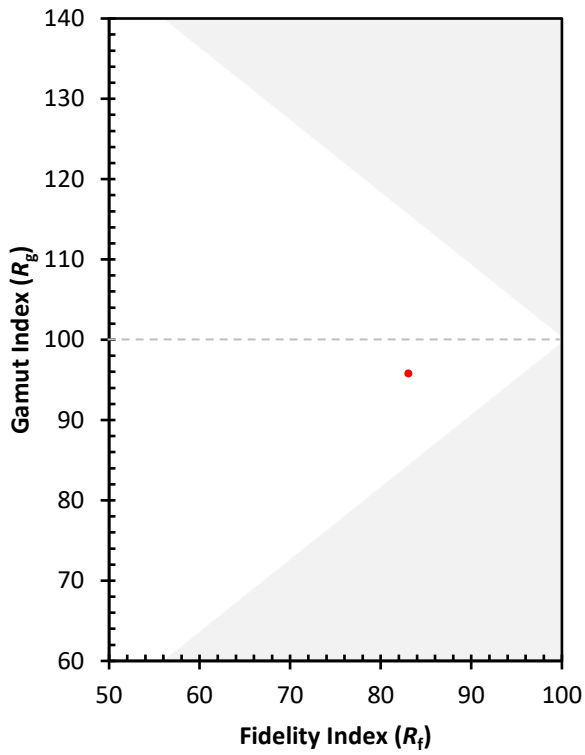
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82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