

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: P1449837

Luminaire Tested: **TWC100_T3_80W_4000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20260310005)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TWC100_T3_80W_4000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 80W
4000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7011 lumens
Efficiency: N/A
Efficacy: 188.0 lumens/watt
Luminous Opening: Rectangular (W 0.92' x L: 0.42' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U3 - G2

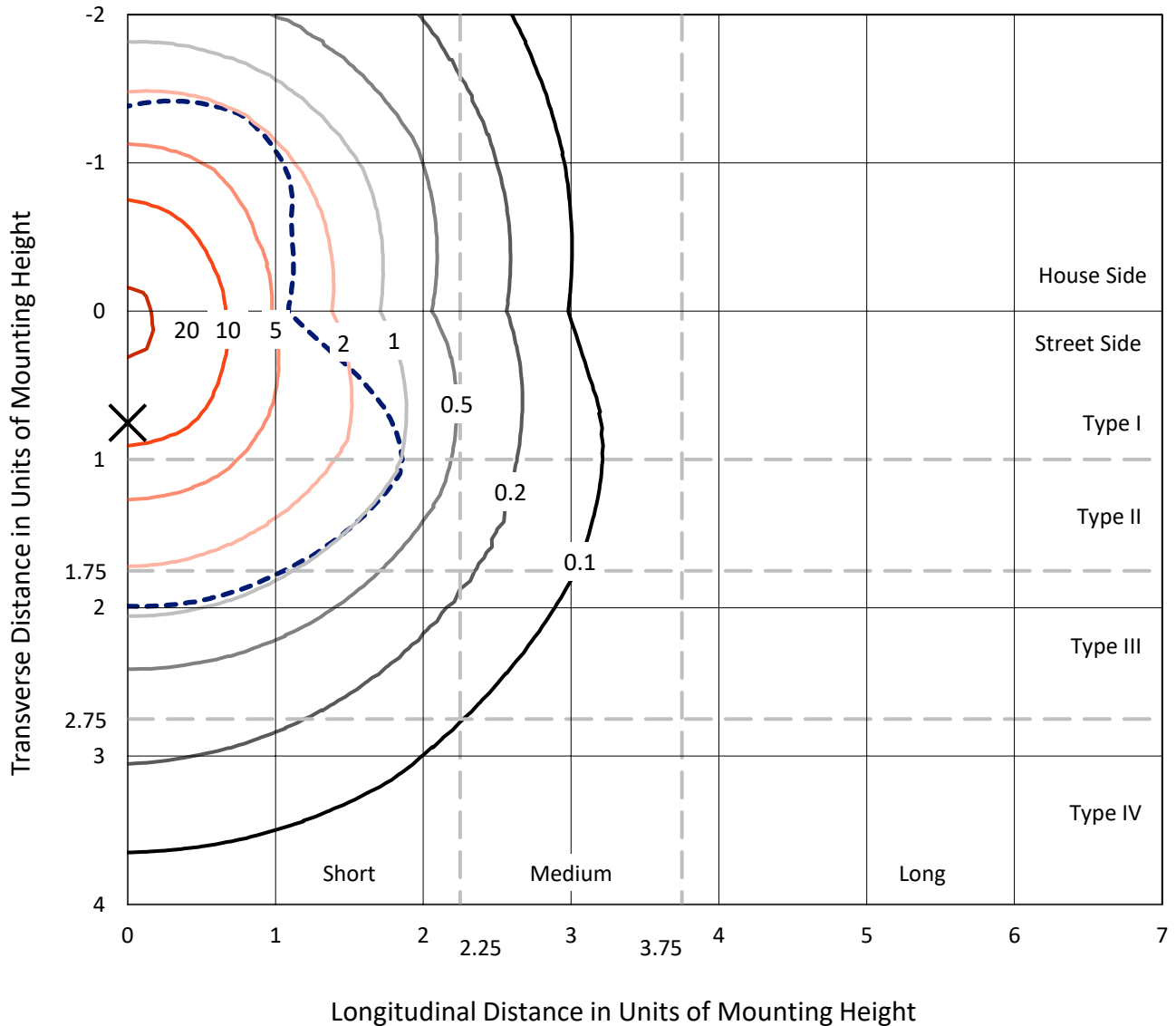
Input Watts (W): 37.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

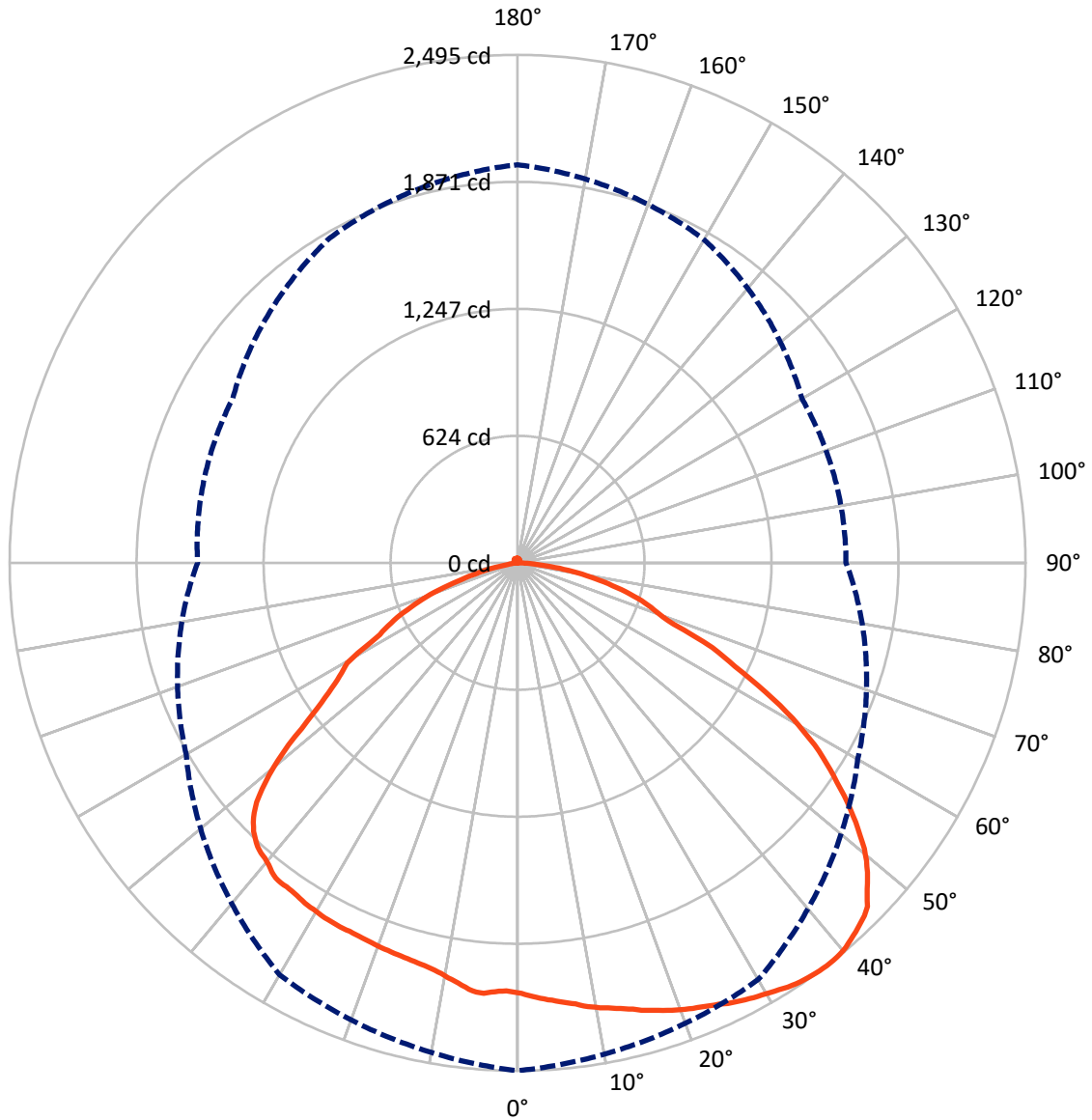
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 37-Deg Vertical

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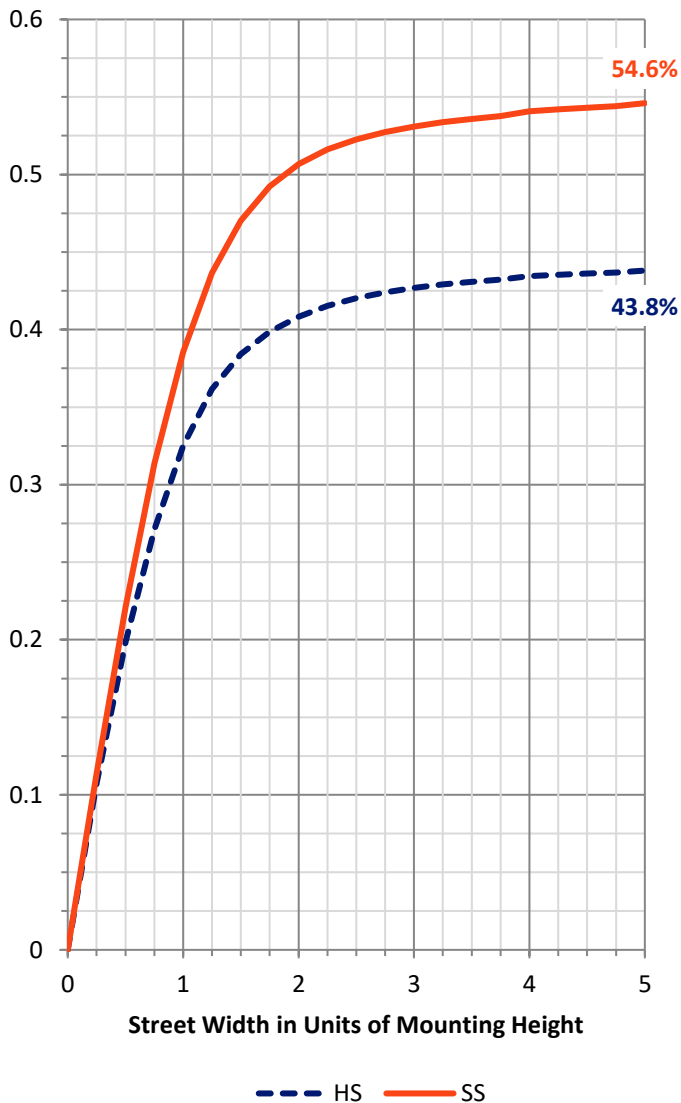
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3087.9	42.1	3130.0
	% Fixture	44.0	0.6	44.6
Street Side	Lumens	3847.5	33.5	3881.0
	% Fixture	54.9	0.5	55.4
Total	Lumens	6935.4	75.6	7011.0
	% Fixture	98.9	1.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	2.9
10°-20°	592.8	8.5
20°-30°	941.3	13.4
30°-40°	1219.1	17.4
40°-50°	1370.6	19.5
50°-60°	1267.7	18.1
60°-70°	867.4	12.4
70°-80°	386.7	5.5
80°-90°	87.3	1.2
90°-100°	3.7	0.1
100°-110°	6.8	0.1
110°-120°	10.2	0.1
120°-130°	12.4	0.2
130°-140°	13.0	0.2
140°-150°	11.9	0.2
150°-160°	9.5	0.1
160°-170°	6.1	0.1
170°-180°	2.1	0.0
0°-90°	6935.4	98.9
0°-180°	7011.0	100.0

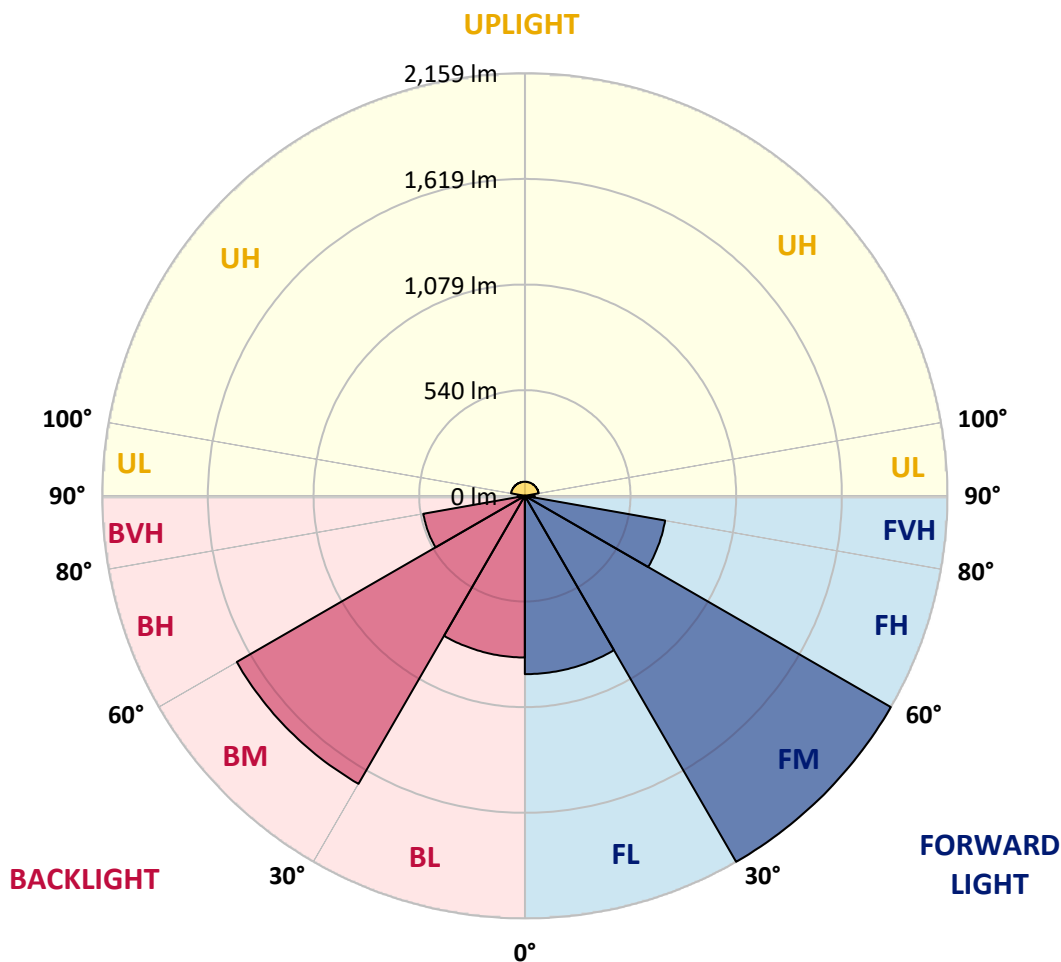


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.9	13.0			
FM (30°-60°)	2158.6	30.8			
FH (60°-80°)	727.4	10.4			G1/1800
FVH (80°-90°)	50.5	0.7			G1/100
BL (0°-30°)	825.6	11.8	B2/1000		
BM (30°-60°)	1698.8	24.2	B2/2500		
BH (60°-80°)	526.7	7.5	B2/1000		G2/1000
BVH (80°-90°)	36.8	0.5			G1/100
UL (90°-100°)	3.7	0.1		U1/10	
UH (100°-180°)	71.9	1.0		U3/500	

BUG Rating: B2-U3-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1
1°	2125.6	2121.3	2119.6	2116.2	2108.6	2107.3	2107.7	2105.6	2108.9	2112.5	2121.4
2°	2135.5	2130.5	2123.8	2116.0	2103.6	2100.1	2103.5	2103.1	2103.0	2110.5	2125.7
3°	2146.4	2141.4	2127.3	2109.9	2098.1	2094.9	2105.9	2101.3	2098.4	2107.9	2129.2
4°	2155.1	2148.8	2130.4	2107.8	2092.4	2090.5	2113.0	2105.0	2094.1	2104.4	2129.0
5°	2165.6	2157.1	2134.1	2104.8	2090.5	2094.9	2121.3	2111.1	2088.2	2100.3	2130.3
6°	2175.9	2166.8	2135.1	2100.0	2086.4	2102.9	2118.7	2115.4	2087.4	2095.6	2131.5
7°	2185.2	2174.0	2140.1	2098.9	2083.7	2108.1	2107.9	2111.9	2088.0	2089.3	2132.2
8°	2200.7	2182.2	2141.2	2093.7	2084.6	2107.8	2092.6	2100.4	2089.5	2082.7	2133.3
9°	2211.5	2189.7	2141.5	2086.6	2085.1	2096.7	2077.8	2084.4	2095.3	2076.0	2132.6
10°	2222.3	2194.9	2136.8	2076.8	2086.9	2078.8	2066.6	2069.1	2093.0	2068.7	2131.2
11°	2230.7	2202.0	2136.0	2069.0	2083.0	2059.2	2051.5	2055.4	2086.6	2059.9	2130.6
12°	2241.4	2209.9	2135.5	2060.5	2077.8	2046.7	2041.7	2044.4	2071.1	2049.7	2128.2
13°	2252.6	2222.2	2133.6	2049.7	2068.3	2034.3	2033.4	2030.5	2053.8	2035.3	2125.5
14°	2264.3	2229.2	2134.1	2039.4	2052.5	2022.1	2027.8	2019.7	2033.5	2023.7	2122.3
15°	2280.0	2236.9	2131.2	2028.9	2033.8	2009.8	2023.1	2010.8	2014.8	2011.9	2115.8
16°	2291.7	2243.2	2129.1	2017.9	2014.4	2000.2	2018.2	2002.8	1996.4	2002.1	2112.1
17°	2305.1	2252.4	2126.5	2005.6	1996.0	1992.6	2014.0	1993.3	1979.2	1990.2	2107.9
18°	2318.0	2259.8	2122.2	1992.6	1973.0	1984.9	2011.0	1985.4	1962.9	1977.1	2105.9
19°	2330.2	2267.9	2117.6	1979.4	1955.2	1977.4	2007.8	1979.2	1944.5	1963.6	2100.1
20°	2340.9	2275.0	2113.1	1961.6	1936.8	1969.0	2004.7	1974.2	1927.9	1947.1	2093.8
21°	2351.8	2281.5	2104.0	1947.4	1918.5	1958.3	2001.4	1967.3	1910.4	1933.3	2086.8
22°	2361.0	2287.4	2097.7	1932.6	1901.5	1950.7	1996.3	1960.7	1894.4	1920.9	2074.7
23°	2372.1	2295.9	2090.1	1920.0	1884.1	1943.5	1993.8	1953.7	1874.7	1906.8	2065.9
24°	2382.5	2301.7	2082.9	1905.7	1867.3	1936.6	1991.8	1944.6	1859.7	1894.5	2056.4
25°	2397.8	2307.1	2077.7	1891.4	1849.4	1931.8	1989.1	1938.8	1842.2	1882.8	2047.3
26°	2409.1	2312.4	2068.8	1877.8	1832.2	1926.1	1989.9	1931.9	1826.2	1868.6	2036.0
27°	2419.1	2314.3	2059.5	1861.7	1814.4	1918.6	1987.6	1924.6	1809.0	1853.0	2024.9
28°	2430.3	2319.8	2043.8	1846.9	1796.3	1908.7	1985.5	1918.1	1791.5	1835.6	2013.4
29°	2438.7	2325.1	2033.0	1831.1	1773.4	1900.4	1983.9	1911.2	1773.6	1816.4	2000.5
30°	2449.1	2329.2	2022.1	1813.2	1754.7	1892.2	1979.1	1904.2	1751.2	1792.6	1987.8
31°	2459.2	2337.5	2011.2	1790.6	1735.3	1884.9	1975.6	1895.9	1732.5	1759.7	1974.3
32°	2471.2	2343.2	1999.7	1767.5	1715.7	1875.4	1972.2	1889.5	1714.6	1729.3	1961.0
33°	2478.5	2348.3	1987.7	1742.2	1697.5	1868.0	1967.8	1882.4	1696.3	1698.0	1942.2
34°	2485.2	2353.7	1974.6	1712.0	1677.8	1860.4	1961.1	1875.3	1676.3	1666.7	1927.0
35°	2489.9	2357.2	1961.0	1678.5	1658.3	1851.7	1956.9	1863.6	1656.2	1636.4	1910.9
36°	2492.9	2360.2	1944.4	1646.0	1637.7	1843.4	1953.8	1852.7	1635.3	1603.9	1894.3
37°	2494.6	2363.5	1928.9	1613.1	1612.2	1832.6	1954.9	1842.6	1615.0	1571.5	1879.6
38°	2493.4	2364.1	1913.4	1578.9	1590.1	1821.7	1951.5	1835.0	1592.7	1533.8	1862.5
39°	2489.6	2363.5	1897.9	1538.3	1568.5	1813.9	1938.9	1832.0	1570.9	1500.4	1845.8
40°	2483.2	2359.6	1878.8	1504.4	1546.2	1807.6	1922.1	1826.5	1548.9	1467.1	1824.6
41°	2470.0	2355.3	1865.0	1470.4	1521.7	1798.7	1908.8	1813.1	1526.0	1434.1	1807.6
42°	2458.0	2349.6	1850.9	1436.9	1498.6	1786.3	1902.8	1793.0	1498.7	1401.7	1791.8
43°	2444.3	2339.1	1837.3	1401.6	1475.2	1765.0	1890.0	1777.1	1475.0	1365.0	1776.7
44°	2430.0	2327.2	1826.7	1366.8	1450.4	1753.9	1870.7	1769.3	1450.2	1332.0	1761.3



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	2409.0	2313.0	1814.9	1333.0	1422.7	1745.6	1848.9	1755.9	1425.5	1298.5	1748.2
46°	2366.7	2296.9	1804.1	1294.4	1395.8	1733.2	1819.7	1736.9	1403.6	1262.1	1735.2
47°	2330.9	2272.9	1789.6	1259.1	1371.3	1714.4	1783.3	1714.8	1385.3	1227.0	1723.3
48°	2293.9	2241.3	1779.3	1223.0	1351.4	1690.9	1738.9	1692.5	1363.0	1191.9	1710.9
49°	2253.3	2196.5	1768.7	1187.0	1327.2	1668.2	1674.6	1668.0	1326.8	1155.9	1699.5
50°	2207.0	2160.8	1758.1	1150.3	1296.3	1644.9	1605.9	1633.0	1299.6	1114.5	1687.6
51°	2150.3	2125.5	1747.8	1109.8	1265.3	1615.8	1524.5	1591.7	1277.1	1078.1	1675.5
52°	2093.0	2079.2	1736.4	1073.2	1242.1	1572.8	1436.7	1542.5	1252.5	1042.0	1663.6
53°	2032.8	2026.0	1723.7	1035.8	1218.2	1526.6	1336.8	1483.7	1223.9	1004.9	1646.9
54°	1971.3	1958.9	1710.4	996.2	1191.6	1470.3	1253.9	1414.0	1196.5	964.9	1632.5
55°	1903.3	1897.0	1696.8	958.4	1163.6	1398.0	1183.0	1324.6	1168.4	926.9	1618.7
56°	1842.6	1829.3	1683.3	919.8	1130.7	1320.6	1126.0	1238.5	1138.6	888.0	1606.5
57°	1779.3	1753.4	1667.9	875.3	1100.4	1236.7	1075.8	1154.8	1105.0	847.7	1590.6
58°	1712.0	1682.8	1645.7	834.9	1068.2	1151.1	1036.8	1080.6	1071.1	808.3	1573.3
59°	1630.4	1612.4	1604.8	795.1	1033.8	1064.9	1002.2	1016.7	1036.7	763.6	1543.6
60°	1552.0	1541.2	1571.6	755.1	994.8	1003.6	970.6	969.7	1000.6	723.5	1503.9
61°	1466.3	1464.2	1537.1	712.2	959.3	955.6	901.6	931.7	958.1	683.5	1470.7
62°	1371.1	1390.8	1485.5	674.0	921.4	916.3	816.7	898.1	921.5	640.4	1429.6
63°	1273.9	1317.6	1422.5	635.8	879.7	881.0	762.2	861.5	882.1	605.9	1373.4
64°	1182.5	1241.2	1346.2	597.2	840.5	849.1	726.3	799.8	836.6	571.9	1295.9
65°	1113.2	1143.5	1257.1	557.7	799.1	790.0	688.7	735.6	780.2	534.1	1210.3
66°	1044.1	1046.9	1141.0	522.0	751.9	721.3	650.9	697.7	716.9	495.5	1108.9
67°	939.6	965.9	1024.1	482.2	690.1	688.1	609.2	670.6	643.9	459.4	991.5
68°	822.2	888.8	897.7	442.8	622.7	662.0	564.1	643.6	573.2	422.7	854.6
69°	761.8	774.0	770.3	400.4	548.9	635.5	522.6	612.5	508.6	380.5	722.2
70°	725.7	678.8	652.4	363.7	478.6	602.2	478.9	578.0	466.7	343.1	594.8
71°	691.8	637.3	571.1	327.2	430.5	572.0	433.8	547.9	437.4	307.3	499.3
72°	655.9	606.3	579.8	289.1	398.4	543.4	379.8	516.3	403.3	272.8	466.8
73°	617.2	578.2	630.5	255.7	368.0	510.8	329.6	483.0	368.8	236.8	548.3
74°	571.3	550.2	494.8	224.7	331.1	478.7	283.7	443.8	348.2	206.1	487.8
75°	525.9	520.3	323.0	195.7	310.4	445.5	242.7	403.7	328.7	178.1	292.1
76°	480.6	482.7	269.5	166.3	291.3	407.7	206.0	357.9	307.3	152.4	231.9
77°	433.0	446.6	237.3	143.2	268.7	357.8	176.6	312.5	285.9	128.0	203.3
78°	389.1	415.2	236.5	122.2	250.0	312.7	149.0	267.4	267.3	107.7	195.7
79°	344.1	386.8	234.2	103.9	232.2	270.6	114.5	232.7	249.1	89.7	207.6
80°	300.0	355.9	178.4	85.0	215.1	236.0	75.2	201.6	228.1	72.9	153.3
81°	251.8	323.7	124.0	68.1	195.5	201.6	47.3	168.3	208.0	57.6	103.6
82°	208.1	281.2	104.8	52.9	177.3	170.9	37.2	132.4	188.1	43.1	86.0
83°	164.7	229.9	91.3	38.7	158.2	132.8	28.7	82.2	166.6	32.7	74.3
84°	126.2	198.2	78.3	28.6	137.6	79.6	21.3	38.0	141.2	24.3	65.0
85°	86.1	166.4	66.6	20.7	117.0	31.1	16.9	19.4	117.1	17.0	55.3
86°	61.0	122.9	56.3	14.4	91.6	16.1	10.7	13.1	95.6	11.8	45.1
87°	36.3	82.0	40.5	8.5	72.7	9.7	6.7	8.1	67.8	7.7	30.9
88°	12.8	30.3	17.6	4.4	42.3	5.2	4.6	5.0	25.5	4.4	10.8
89°	1.5	1.7	1.7	1.8	10.9	2.6	3.6	3.7	3.6	2.5	2.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1.0	1.2	1.2	0.9	1.4	1.7	3.7	3.7	3.4	2.2	2.8
91°	1.0	1.3	1.3	1.0	1.5	1.8	4.0	4.0	3.7	2.5	3.1
92°	1.2	1.5	1.4	1.1	1.8	1.9	4.4	4.3	4.0	2.7	3.2
93°	1.4	1.6	1.5	1.3	1.9	2.2	4.7	4.7	4.4	2.9	3.5
94°	1.4	1.8	1.7	1.3	2.1	2.3	5.2	5.1	4.7	3.1	3.7
95°	1.6	2.0	1.9	1.4	2.4	2.5	5.6	5.5	5.1	3.4	4.0
96°	1.7	2.1	2.0	1.7	2.6	2.8	6.0	5.9	5.4	3.7	4.2
97°	2.0	2.3	2.2	1.7	2.8	3.1	6.5	6.2	5.8	4.0	4.5
98°	2.1	2.5	2.3	2.0	3.2	3.4	6.9	6.7	6.2	4.3	4.7
99°	2.2	2.8	2.6	2.1	3.5	3.6	7.4	7.2	6.7	4.5	5.0
100°	2.5	3.0	2.8	2.3	3.7	3.9	7.9	7.7	6.9	4.9	5.3
101°	2.8	3.1	3.0	2.6	3.9	4.2	8.3	8.1	7.4	5.1	5.5
102°	3.0	3.4	3.2	2.8	4.4	4.6	8.8	8.7	7.8	5.5	5.9
103°	3.2	3.7	3.4	3.1	4.6	4.8	9.4	9.1	8.3	5.8	6.2
104°	3.5	4.0	3.6	3.2	4.8	5.2	9.7	9.6	8.7	6.3	6.6
105°	3.8	4.2	3.9	3.5	5.2	5.6	10.3	10.2	9.1	6.5	6.9
106°	4.1	4.5	4.2	3.8	5.6	6.0	10.8	10.7	9.5	6.9	7.2
107°	4.4	4.8	4.5	4.1	5.9	6.4	11.5	11.2	10.0	7.3	7.6
108°	4.7	5.1	4.7	4.4	6.2	6.8	12.0	11.8	10.3	7.7	7.9
109°	5.1	5.4	5.0	4.7	6.7	7.3	12.5	12.3	10.9	8.0	8.2
110°	5.3	5.8	5.2	5.0	7.0	7.7	13.0	12.8	11.3	8.4	8.6
111°	5.8	6.0	5.4	5.3	7.4	8.2	13.7	13.5	11.7	8.8	9.0
112°	6.0	6.3	5.8	5.5	7.7	8.6	14.3	14.0	12.0	9.2	9.4
113°	6.4	6.8	6.0	5.9	8.0	9.2	14.7	14.4	12.5	9.6	9.5
114°	6.8	7.1	6.3	6.3	8.4	9.6	15.3	15.0	12.9	9.9	9.9
115°	7.1	7.5	6.7	6.6	8.7	10.0	15.8	15.3	13.2	10.3	10.3
116°	7.5	7.8	6.9	7.0	9.2	10.7	16.4	15.9	13.6	10.7	10.5
117°	8.0	8.2	7.1	7.2	9.4	11.0	16.8	16.4	14.1	11.1	10.9
118°	8.4	8.5	7.5	7.6	9.8	11.5	17.3	16.7	14.2	11.5	11.2
119°	8.7	8.9	7.8	7.9	10.1	11.9	17.8	17.2	14.6	12.0	11.6
120°	9.2	9.3	8.2	8.2	10.5	12.4	18.2	17.6	15.0	12.3	11.8
121°	9.5	9.6	8.4	8.6	10.9	12.9	18.6	18.0	15.2	12.6	12.2
122°	10.0	10.0	8.7	9.0	11.2	13.2	19.0	18.4	15.6	12.9	12.5
123°	10.3	10.2	9.2	9.2	11.6	13.7	19.4	18.6	16.0	13.3	12.8
124°	10.7	10.6	9.3	9.6	11.9	14.1	19.8	19.1	16.4	13.6	13.2
125°	11.1	10.9	9.7	10.0	12.3	14.4	20.2	19.3	16.6	14.1	13.5
126°	11.5	11.3	10.0	10.3	12.7	14.9	20.5	19.6	16.8	14.3	13.8
127°	11.9	11.6	10.3	10.6	12.9	15.2	20.7	19.8	17.2	14.5	14.1
128°	12.2	11.9	10.7	11.0	13.5	15.6	21.0	20.2	17.4	14.8	14.2
129°	12.7	12.3	10.9	11.3	13.8	16.0	21.3	20.5	17.8	15.2	14.6
130°	12.9	12.6	11.2	11.6	14.2	16.4	21.4	20.7	18.0	15.4	14.9
131°	13.2	12.9	11.5	11.9	14.5	16.6	21.7	20.9	18.3	15.7	15.2
132°	13.6	13.1	11.8	12.4	14.8	17.0	21.9	21.1	18.5	15.9	15.3
133°	13.9	13.5	12.1	12.6	15.2	17.3	22.1	21.3	18.9	16.3	15.7
134°	14.2	13.7	12.4	12.9	15.6	17.7	22.3	21.5	19.0	16.5	16.0



REPORT NUMBER: P1449837
 CATALOG NUMBER: TWC100_T3_80W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	14.4	13.9	12.7	13.1	15.9	17.9	22.5	21.7	19.3	16.8	16.1
136°	14.7	14.2	12.9	13.5	16.3	18.3	22.6	21.8	19.4	17.1	16.5
137°	15.0	14.5	13.3	13.8	16.6	18.6	22.8	21.9	19.8	17.3	16.8
138°	15.3	14.8	13.5	14.1	16.9	18.9	22.9	22.1	19.9	17.5	16.9
139°	15.5	15.2	13.9	14.4	17.3	19.2	23.0	22.2	20.1	17.7	17.2
140°	15.8	15.3	14.1	14.6	17.5	19.4	23.2	22.3	20.2	18.0	17.5
141°	16.0	15.5	14.4	14.9	17.8	19.9	23.2	22.4	20.5	18.2	17.5
142°	16.4	15.8	14.6	15.1	18.1	19.9	23.3	22.5	20.5	18.4	17.8
143°	16.4	16.0	15.0	15.3	18.4	20.3	23.2	22.6	20.7	18.7	18.1
144°	16.8	16.3	15.2	15.7	18.6	20.6	23.2	22.6	20.9	18.8	18.2
145°	17.0	16.5	15.6	16.0	18.7	20.8	23.3	22.7	21.0	19.0	18.4
146°	17.3	16.7	15.8	16.2	19.0	21.0	23.3	22.7	21.1	19.2	18.6
147°	17.4	16.9	16.1	16.5	19.2	21.2	23.3	22.8	21.3	19.4	18.9
148°	17.6	17.2	16.4	16.7	19.3	21.5	23.2	22.9	21.3	19.7	19.1
149°	18.0	17.4	16.4	16.9	19.5	21.5	23.3	22.9	21.4	19.8	19.3
150°	18.1	17.6	16.7	17.2	19.8	21.7	23.4	22.9	21.5	20.1	19.4
151°	18.4	17.8	17.0	17.5	19.9	21.8	23.3	23.1	21.6	20.1	19.5
152°	18.6	18.1	17.3	17.7	20.0	22.0	23.3	23.0	21.7	20.3	19.8
153°	18.7	18.3	17.6	17.8	20.1	22.1	23.3	23.0	21.8	20.6	20.0
154°	19.0	18.4	17.8	18.1	20.3	22.3	23.3	22.9	21.9	20.7	20.0
155°	19.2	18.7	18.0	18.3	20.5	22.3	23.2	23.0	21.9	20.8	20.3
156°	19.3	18.7	18.2	18.6	20.6	22.3	23.1	22.9	22.1	20.9	20.5
157°	19.3	18.8	18.3	18.7	20.8	22.4	23.0	22.9	22.0	21.0	20.6
158°	19.5	19.0	18.5	19.0	20.8	22.5	22.9	23.0	22.1	21.1	20.7
159°	19.7	19.2	18.8	19.1	21.0	22.5	22.9	22.9	22.1	21.3	20.8
160°	19.7	19.3	19.0	19.4	21.1	22.5	22.8	22.9	22.1	21.4	20.8
161°	19.9	19.4	19.2	19.6	21.3	22.7	22.7	22.8	22.2	21.5	21.0
162°	20.0	19.7	19.3	19.9	21.5	22.7	22.7	22.7	22.2	21.6	21.2
163°	20.1	19.8	19.5	20.0	21.5	22.8	22.5	22.7	22.2	21.7	21.3
164°	20.2	19.8	19.7	20.1	21.6	22.9	22.5	22.6	22.3	21.7	21.3
165°	20.2	19.9	19.8	20.3	21.7	22.8	22.4	22.6	22.3	21.7	21.4
166°	20.5	20.2	20.0	20.5	21.8	22.9	22.4	22.6	22.3	21.9	21.6
167°	20.5	20.3	20.1	20.7	21.9	23.0	22.3	22.6	22.3	21.9	21.6
168°	20.7	20.5	20.3	20.9	22.0	22.9	22.3	22.5	22.4	22.1	21.8
169°	20.8	20.5	20.6	21.0	22.0	22.8	22.4	22.5	22.4	22.1	21.8
170°	20.9	20.7	20.7	21.1	22.1	23.0	22.4	22.4	22.5	22.2	21.9
171°	21.0	20.8	20.9	21.4	22.3	23.0	22.3	22.4	22.5	22.3	21.9
172°	21.3	20.9	21.0	21.5	22.3	22.9	22.4	22.4	22.3	22.3	22.0
173°	21.3	21.1	21.3	21.6	22.4	22.9	22.4	22.4	22.3	22.4	22.2
174°	21.4	21.3	21.3	21.8	22.5	22.8	22.5	22.4	22.3	22.4	22.3
175°	21.7	21.4	21.5	21.9	22.5	23.0	22.5	22.4	22.3	22.5	22.3
176°	21.8	21.5	21.6	22.1	22.5	22.8	22.4	22.3	22.3	22.5	22.4
177°	21.9	21.7	21.7	22.1	22.5	22.9	22.4	22.3	22.3	22.4	22.5
178°	22.2	21.7	21.9	22.2	22.5	22.8	22.4	22.2	22.2	22.5	22.5
179°	22.1	21.9	21.9	22.4	22.6	22.7	22.3	22.2	22.2	22.4	22.6



REPORT NUMBER: P1449837
CATALOG NUMBER: TWC100_T3_80W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3



REPORT NUMBER: P1449837
CATALOG NUMBER: TWC100_T3_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	2115.1	2115.1
1°	2123.9	2125.6
2°	2132.5	2135.5
3°	2140.8	2146.4
4°	2148.7	2155.1
5°	2154.7	2165.6
6°	2162.3	2175.9
7°	2169.2	2185.2
8°	2180.6	2200.7
9°	2188.3	2211.5
10°	2195.2	2222.3
11°	2202.8	2230.7
12°	2206.4	2241.4
13°	2212.9	2252.6
14°	2220.1	2264.3
15°	2231.1	2280.0
16°	2238.5	2291.7
17°	2245.4	2305.1
18°	2252.8	2318.0
19°	2258.7	2330.2
20°	2265.5	2340.9
21°	2270.8	2351.8
22°	2275.1	2361.0
23°	2279.7	2372.1
24°	2284.4	2382.5
25°	2289.1	2397.8
26°	2298.0	2409.1
27°	2302.5	2419.1
28°	2307.0	2430.3
29°	2310.1	2438.7
30°	2310.8	2449.1
31°	2315.2	2459.2
32°	2319.1	2471.2
33°	2327.7	2478.5
34°	2331.6	2485.2
35°	2334.8	2489.9
36°	2337.1	2492.9
37°	2336.6	2494.6
38°	2337.1	2493.4
39°	2334.8	2489.6
40°	2330.1	2483.2
41°	2320.5	2470.0
42°	2312.6	2458.0
43°	2300.3	2444.3
44°	2287.4	2430.0



REPORT NUMBER: P1449837
CATALOG NUMBER: TWC100_T3_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	2273.2	2409.0
46°	2255.8	2366.7
47°	2234.3	2330.9
48°	2197.0	2293.9
49°	2147.0	2253.3
50°	2112.8	2207.0
51°	2073.4	2150.3
52°	2024.5	2093.0
53°	1966.0	2032.8
54°	1905.3	1971.3
55°	1839.6	1903.3
56°	1770.0	1842.6
57°	1692.4	1779.3
58°	1620.8	1712.0
59°	1549.3	1630.4
60°	1468.1	1552.0
61°	1395.7	1466.3
62°	1324.2	1371.1
63°	1252.2	1273.9
64°	1170.5	1182.5
65°	1079.1	1113.2
66°	986.7	1044.1
67°	915.5	939.6
68°	823.7	822.2
69°	704.6	761.8
70°	635.7	725.7
71°	602.7	691.8
72°	572.9	655.9
73°	544.6	617.2
74°	515.8	571.3
75°	485.2	525.9
76°	445.5	480.6
77°	411.6	433.0
78°	382.8	389.1
79°	355.5	344.1
80°	323.9	300.0
81°	291.5	251.8
82°	246.0	208.1
83°	204.7	164.7
84°	174.2	126.2
85°	133.4	86.1
86°	101.0	61.0
87°	57.3	36.3
88°	4.3	12.8
89°	2.8	1.5



REPORT NUMBER: P1449837
CATALOG NUMBER: TWC100_T3_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	3.1	1.0
91°	3.2	1.0
92°	3.5	1.2
93°	3.7	1.4
94°	4.0	1.4
95°	4.4	1.6
96°	4.6	1.7
97°	5.0	2.0
98°	5.3	2.1
99°	5.6	2.2
100°	6.0	2.5
101°	6.4	2.8
102°	6.8	3.0
103°	7.1	3.2
104°	7.4	3.5
105°	7.8	3.8
106°	8.3	4.1
107°	8.6	4.4
108°	9.0	4.7
109°	9.2	5.1
110°	9.7	5.3
111°	10.0	5.8
112°	10.5	6.0
113°	10.9	6.4
114°	11.2	6.8
115°	11.6	7.1
116°	12.0	7.5
117°	12.5	8.0
118°	12.8	8.4
119°	13.1	8.7
120°	13.5	9.2
121°	13.8	9.5
122°	14.2	10.0
123°	14.3	10.3
124°	14.8	10.7
125°	15.0	11.1
126°	15.3	11.5
127°	15.5	11.9
128°	15.8	12.2
129°	15.9	12.7
130°	16.2	12.9
131°	16.5	13.2
132°	16.6	13.6
133°	16.8	13.9
134°	17.1	14.2



REPORT NUMBER: P1449837
CATALOG NUMBER: TWC100_T3_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	17.4	14.4
136°	17.5	14.7
137°	17.7	15.0
138°	17.8	15.3
139°	18.1	15.5
140°	18.2	15.8
141°	18.4	16.0
142°	18.6	16.4
143°	18.8	16.4
144°	18.9	16.8
145°	19.0	17.0
146°	19.1	17.3
147°	19.2	17.4
148°	19.5	17.6
149°	19.7	18.0
150°	19.7	18.1
151°	19.8	18.4
152°	19.9	18.6
153°	20.0	18.7
154°	20.0	19.0
155°	20.1	19.2
156°	20.2	19.3
157°	20.3	19.3
158°	20.4	19.5
159°	20.6	19.7
160°	20.7	19.7
161°	20.8	19.9
162°	20.8	20.0
163°	20.9	20.1
164°	21.0	20.2
165°	21.0	20.2
166°	21.3	20.5
167°	21.3	20.5
168°	21.5	20.7
169°	21.5	20.8
170°	21.6	20.9
171°	21.8	21.0
172°	21.8	21.3
173°	22.0	21.3
174°	22.1	21.4
175°	22.3	21.7
176°	22.3	21.8
177°	22.4	21.9
178°	22.5	22.2
179°	22.6	22.1

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

Scaled Data Report



REPORT NUMBER: P1449837
CATALOG NUMBER: TWC100_T3_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	22.3	22.3

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-2

Test Date: 02/12/2026

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

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

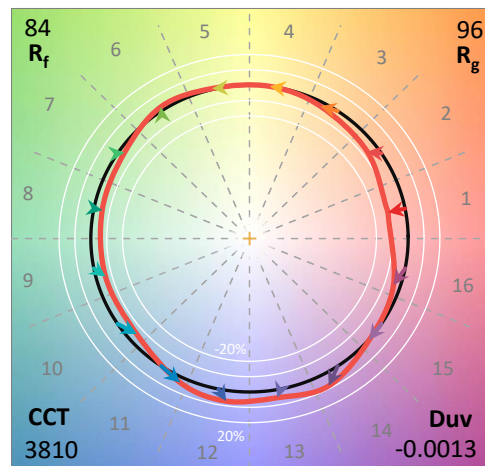
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2601-659-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 02/16/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Lumark
 Catalog Number: **MWP2460W34VDDKYYAD-T4-24W-4000K**
 Description: Mester Wedge, at T4 beam setting, 24W output, 4000K

Spectral Parameters

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

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



Test Conditions

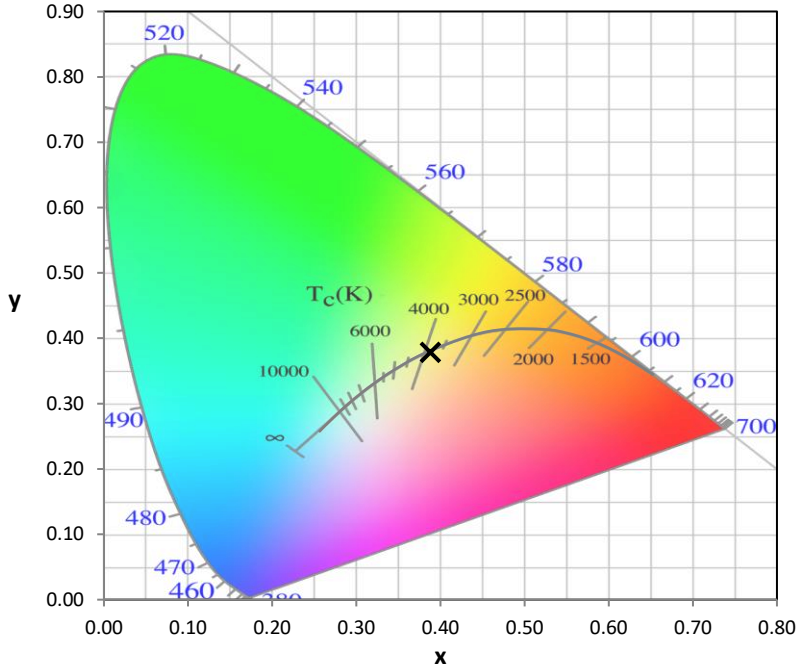
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-2

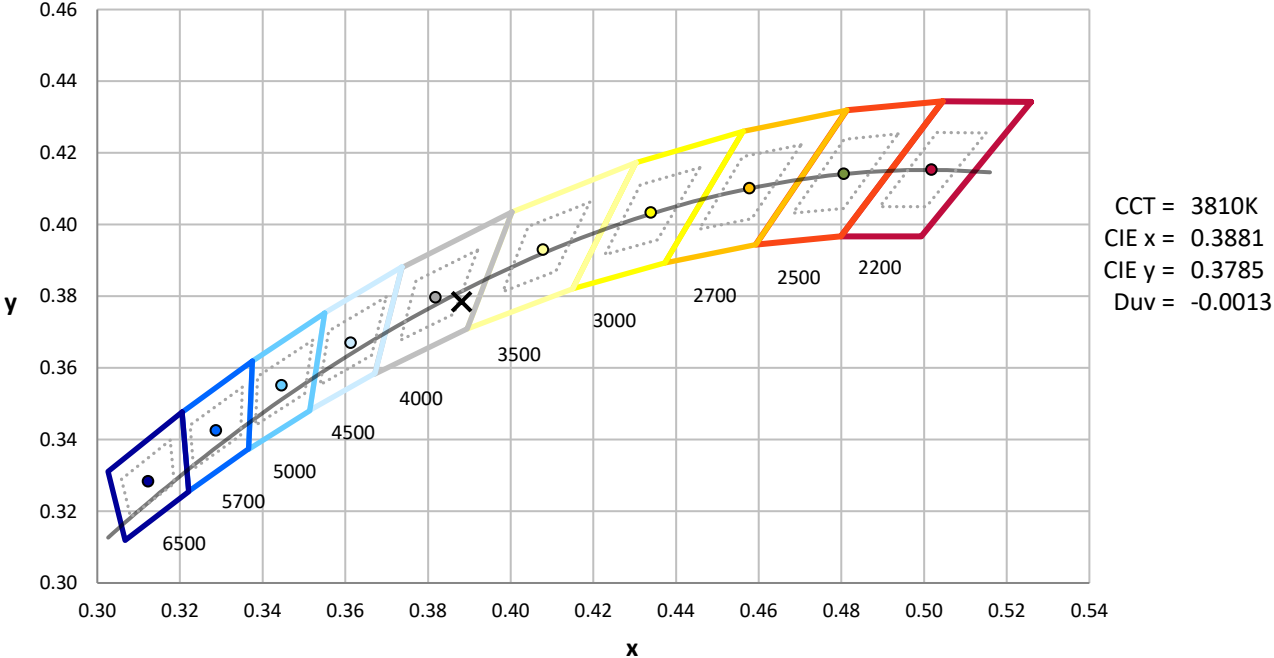
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2601-659-2

CIE 1931 Chromaticity Diagram



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

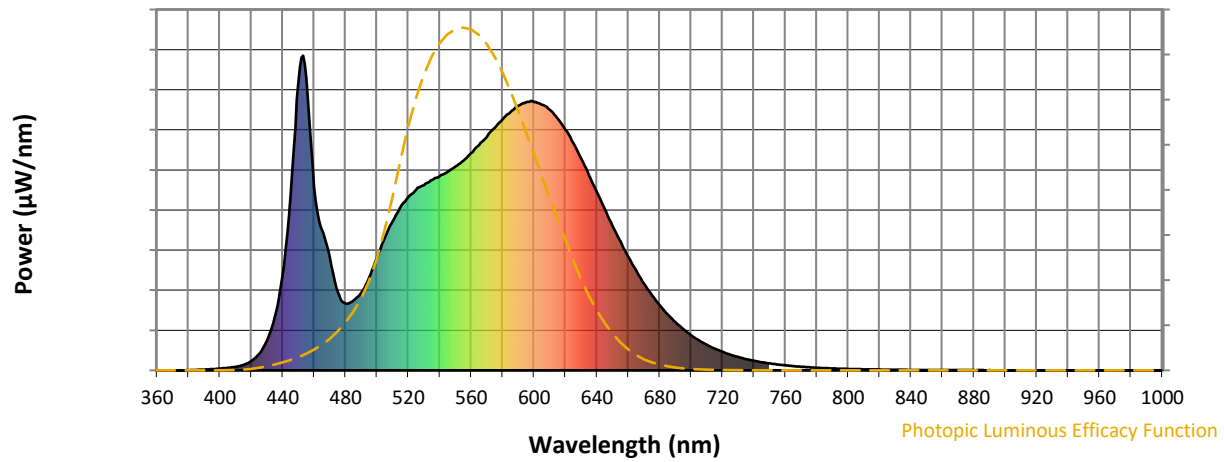


CCT = 3810K
 CIE x = 0.3881
 CIE y = 0.3785
 Duv = -0.0013

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

Photopic Flux vs. Wavelength

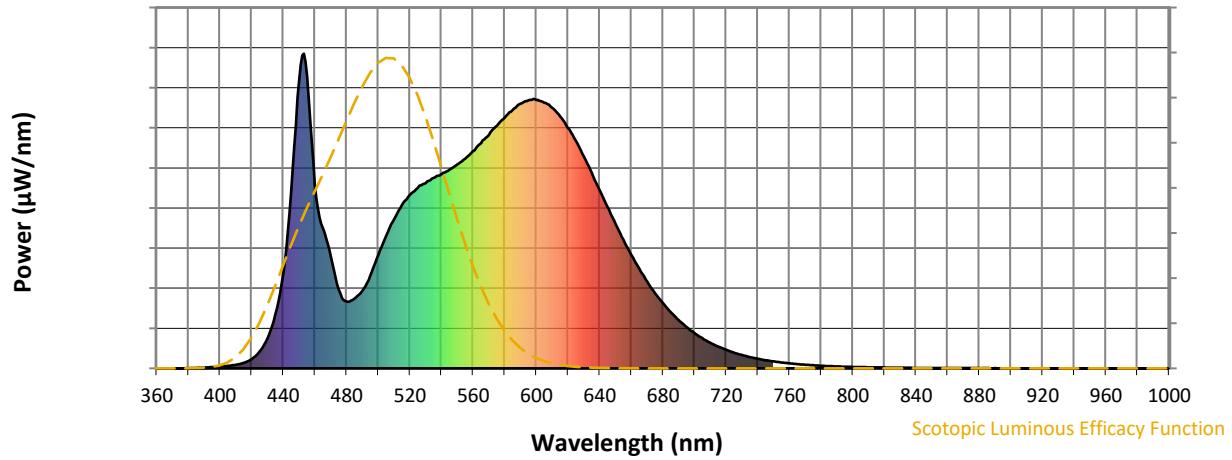


Photopic Lumens: NR

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

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Scotopic Flux vs. Wavelength



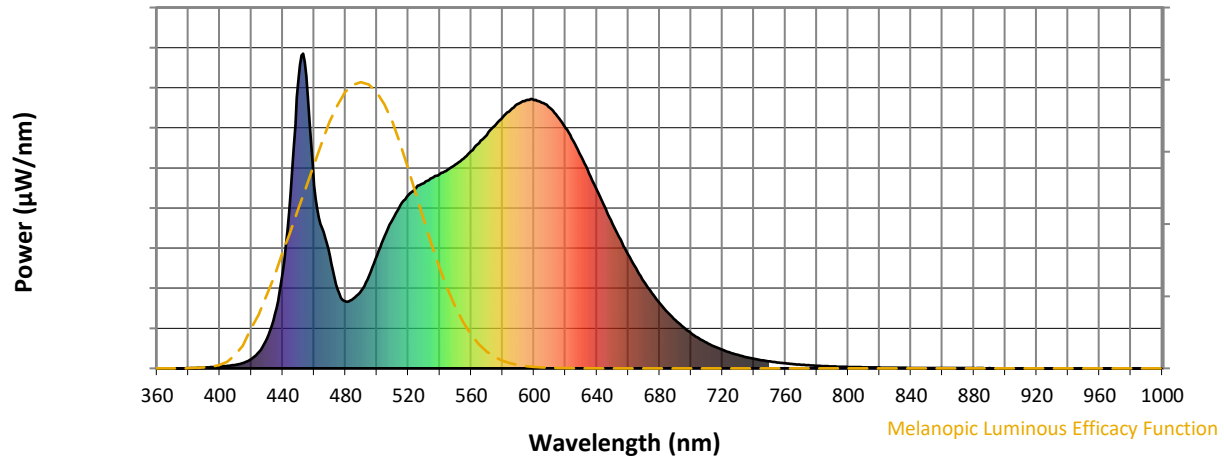
Scotopic Lumens: NR

S/P: 1.64

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

REPORT NUMBER: SP1-2601-659-2

Melanopic Flux vs. Wavelength



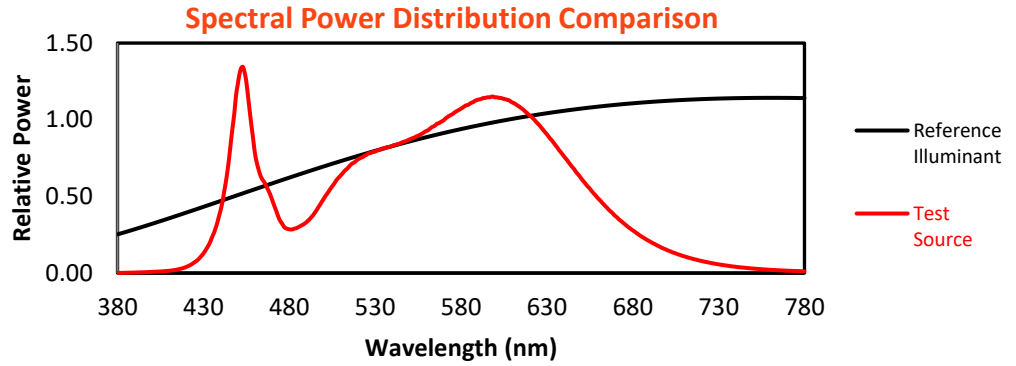
Melanopic Lumens: NR

M/P: 3.35

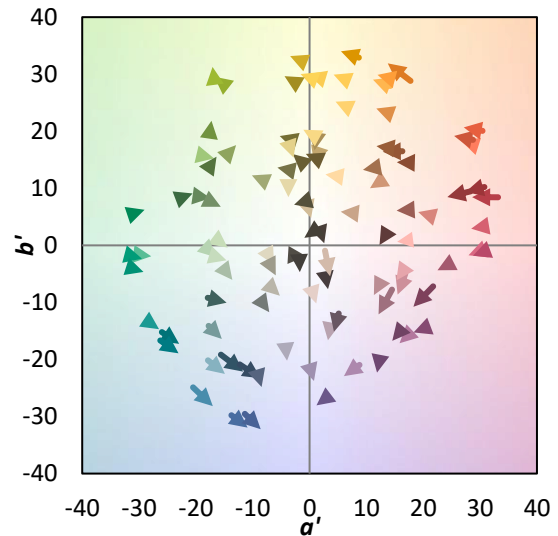
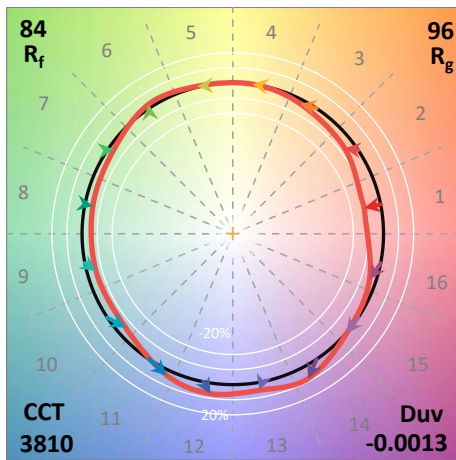
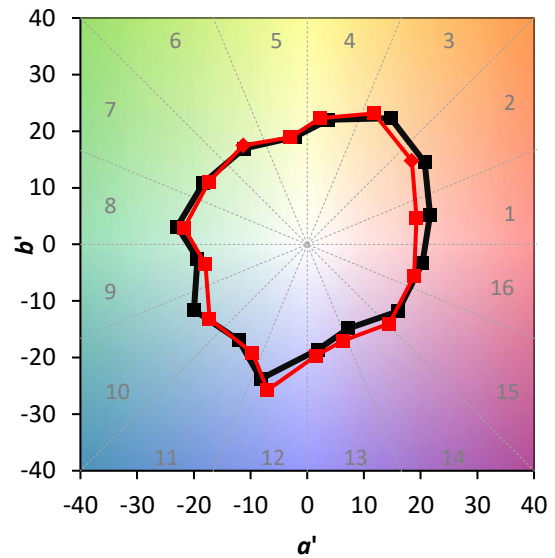
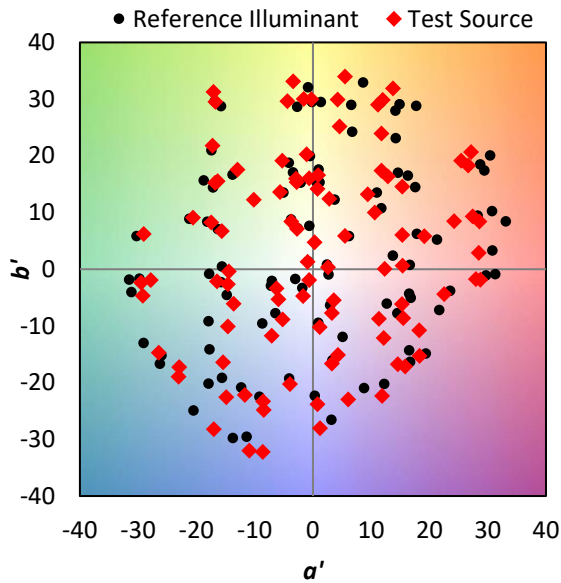
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359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

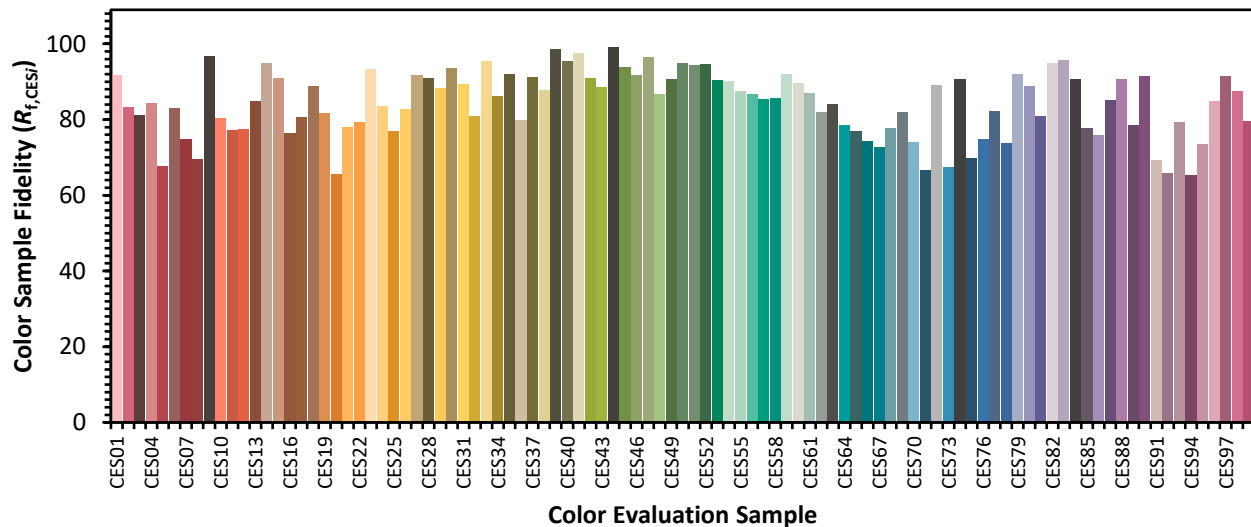


Color Vector Graphics

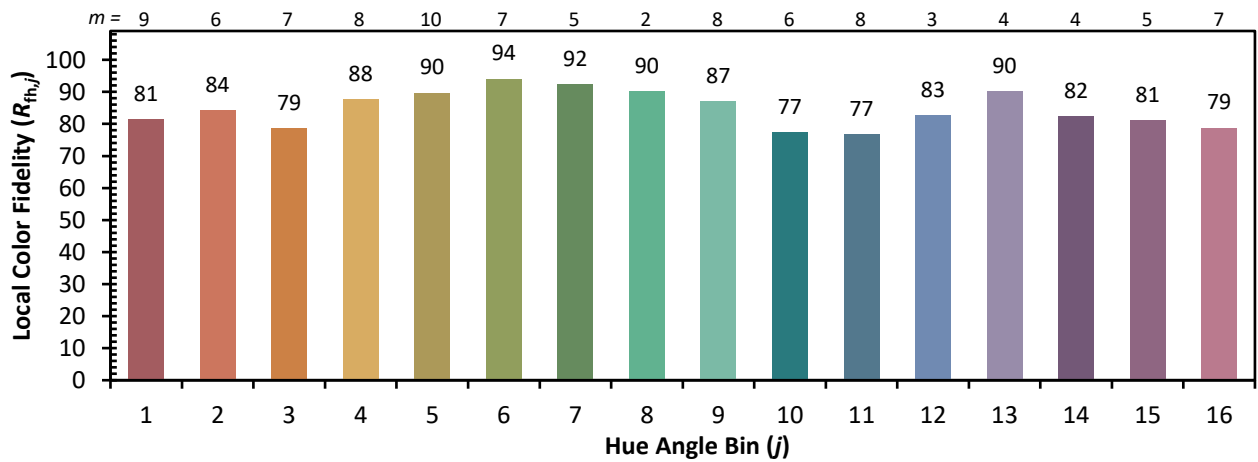
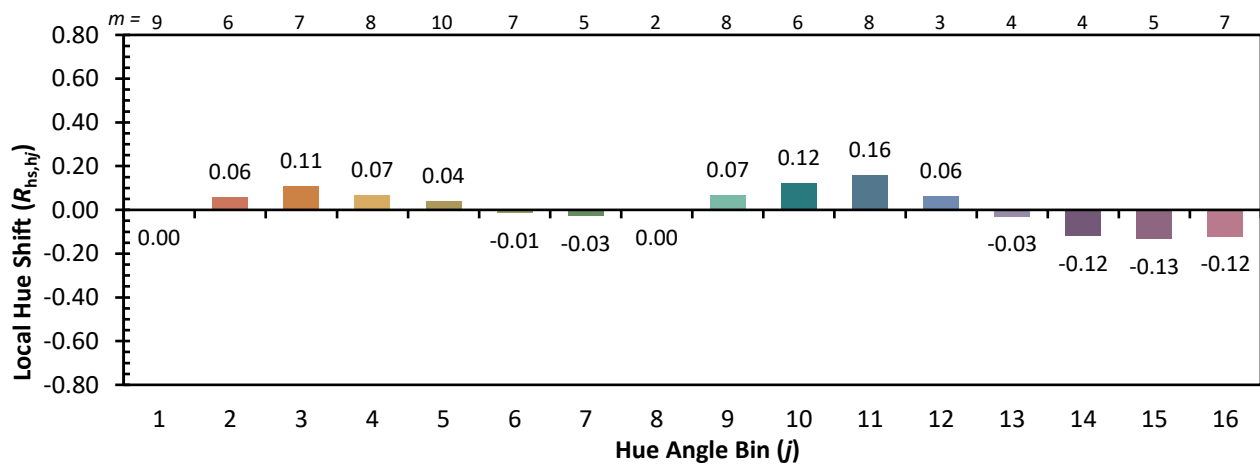
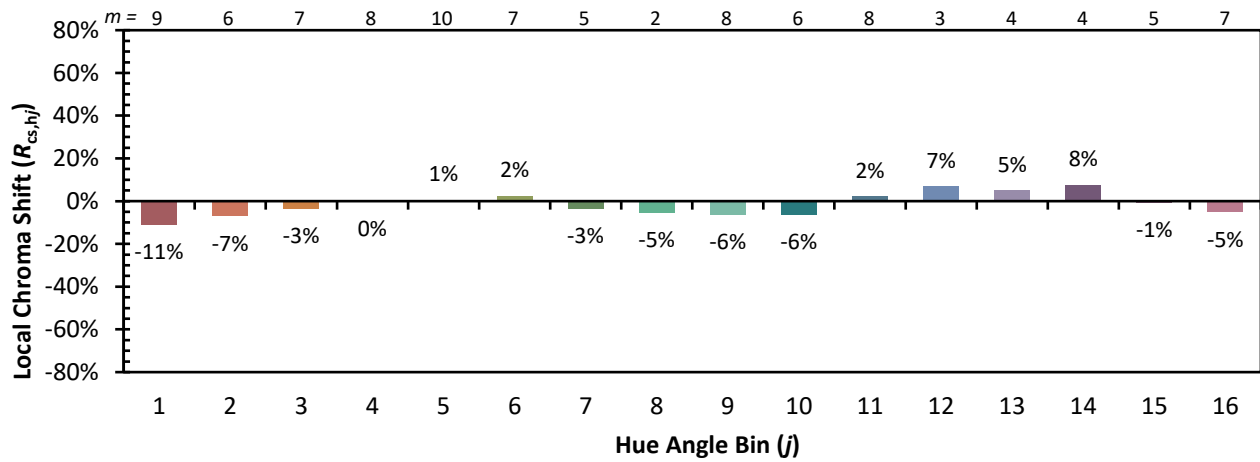


Individual Sample Fidelity Index ($R_{f,i}$)

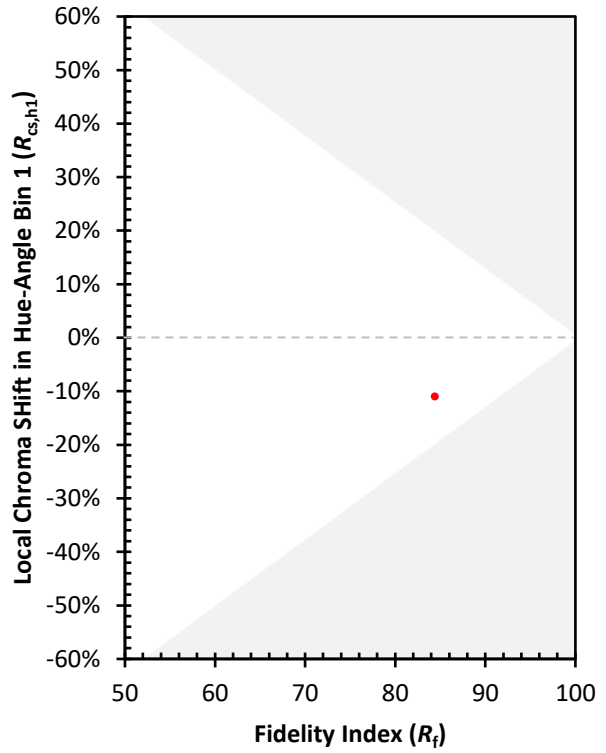
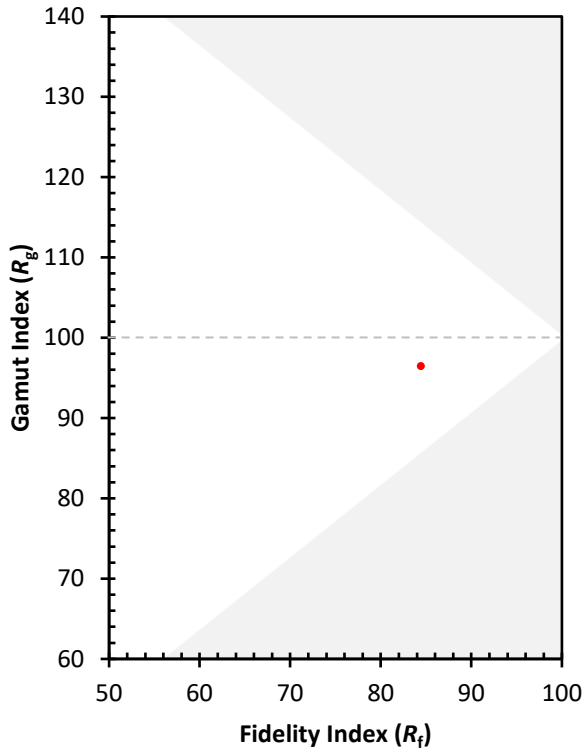
CES01 = 86	CES26 = 83	CES51 = 94	CES76 = 75
CES02 = 62	CES27 = 92	CES52 = 95	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 90	CES78 = 74
CES04 = 70	CES29 = 88	CES54 = 90	CES79 = 92
CES05 = 48	CES30 = 94	CES55 = 88	CES80 = 89
CES06 = 51	CES31 = 89	CES56 = 87	CES81 = 81
CES07 = 41	CES32 = 81	CES57 = 86	CES82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