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: P1449825

Luminaire Tested: **TWC100_T2_80W_4000K**

Issue Date: 5/19/2026

Report Generated By 670246072

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449825
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20260310022)
Test Lab:	INNOVATION CENTER
Issue Date:	5/19/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	TWC100_T2_80W_4000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 80W 4000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6982 lumens
Efficiency:	N/A
Efficacy:	182.8 lumens/watt
Luminous Opening:	Rectangular (W 0.92' x L: 0.42' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U3 - G2

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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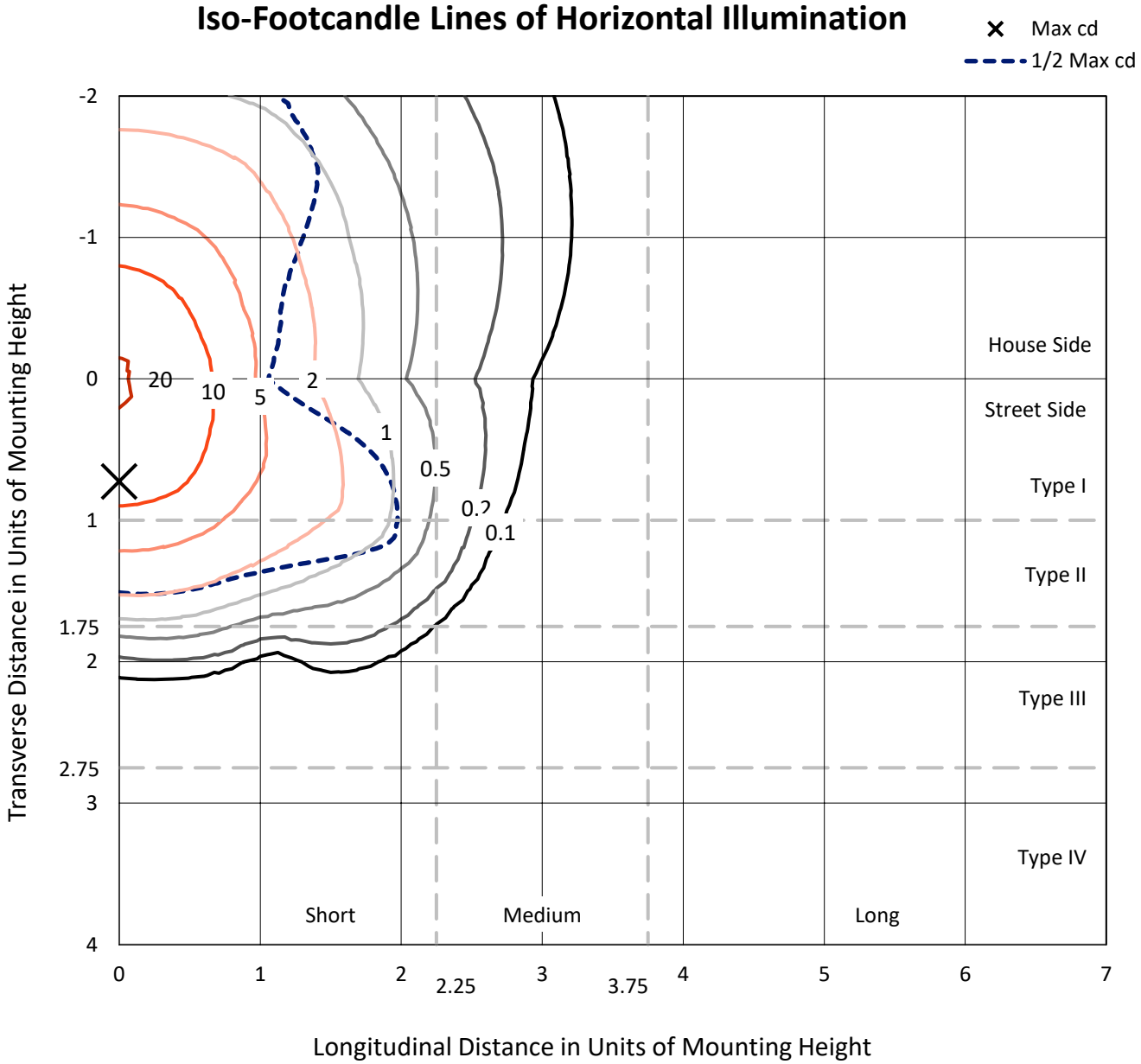
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 20.4 fc
Type II - Short - N/A

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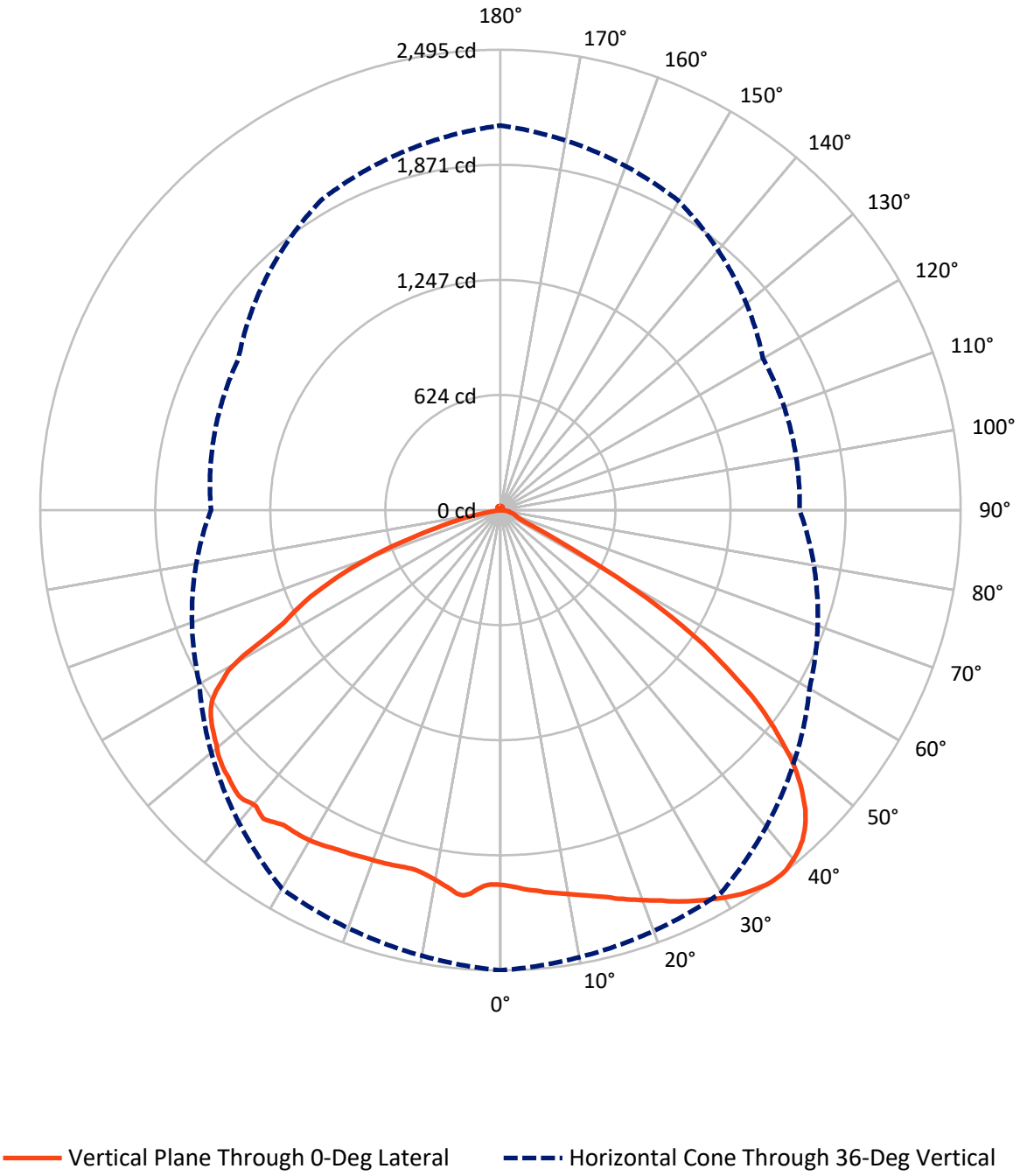
Luminous Intensity Polar Plot



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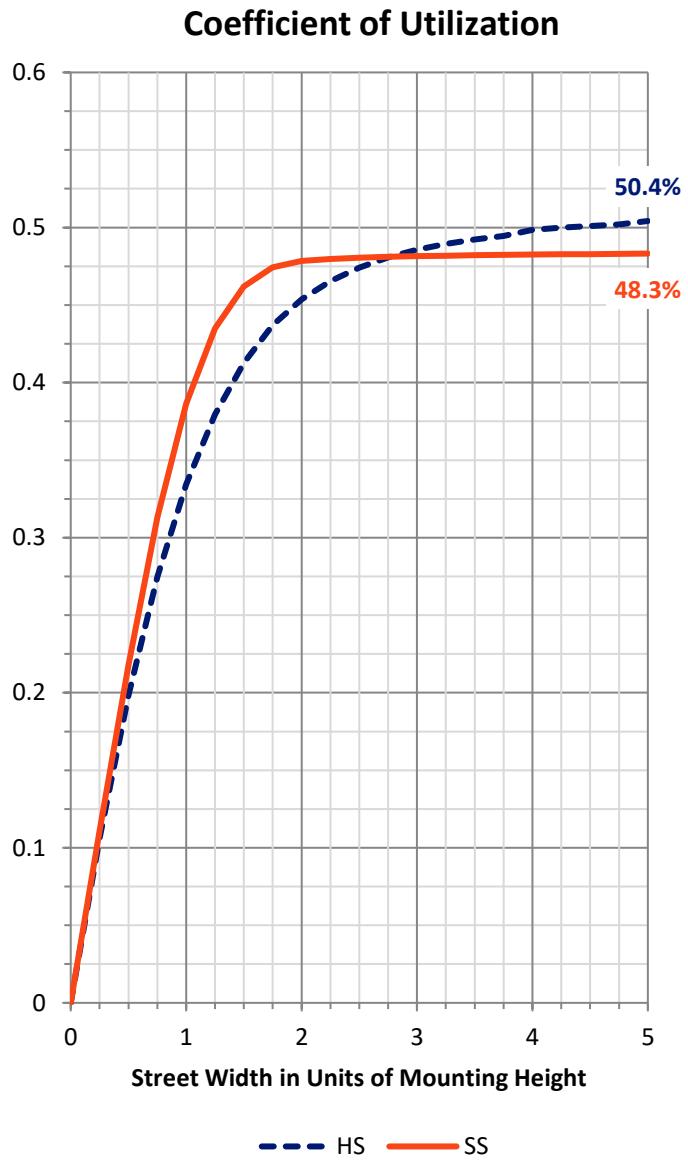
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3534.2	37.7	3571.8
	% Fixture	50.6	0.5	51.2
Street Side	Lumens	3372.5	37.7	3410.2
	% Fixture	48.3	0.5	48.8
Total	Lumens	6906.7	75.3	6982.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	2.8
10°-20°	576.1	8.3
20°-30°	930.1	13.3
30°-40°	1232.8	17.7
40°-50°	1411.6	20.2
50°-60°	1338.4	19.2
60°-70°	837.8	12.0
70°-80°	319.2	4.6
80°-90°	65.0	0.9
90°-100°	3.3	0.0
100°-110°	6.6	0.1
110°-120°	10.2	0.1
120°-130°	12.6	0.2
130°-140°	13.2	0.2
140°-150°	12.0	0.2
150°-160°	9.4	0.1
160°-170°	6.0	0.1
170°-180°	2.1	0.0
0°-90°	6906.7	98.9
0°-180°	6982.0	100.0



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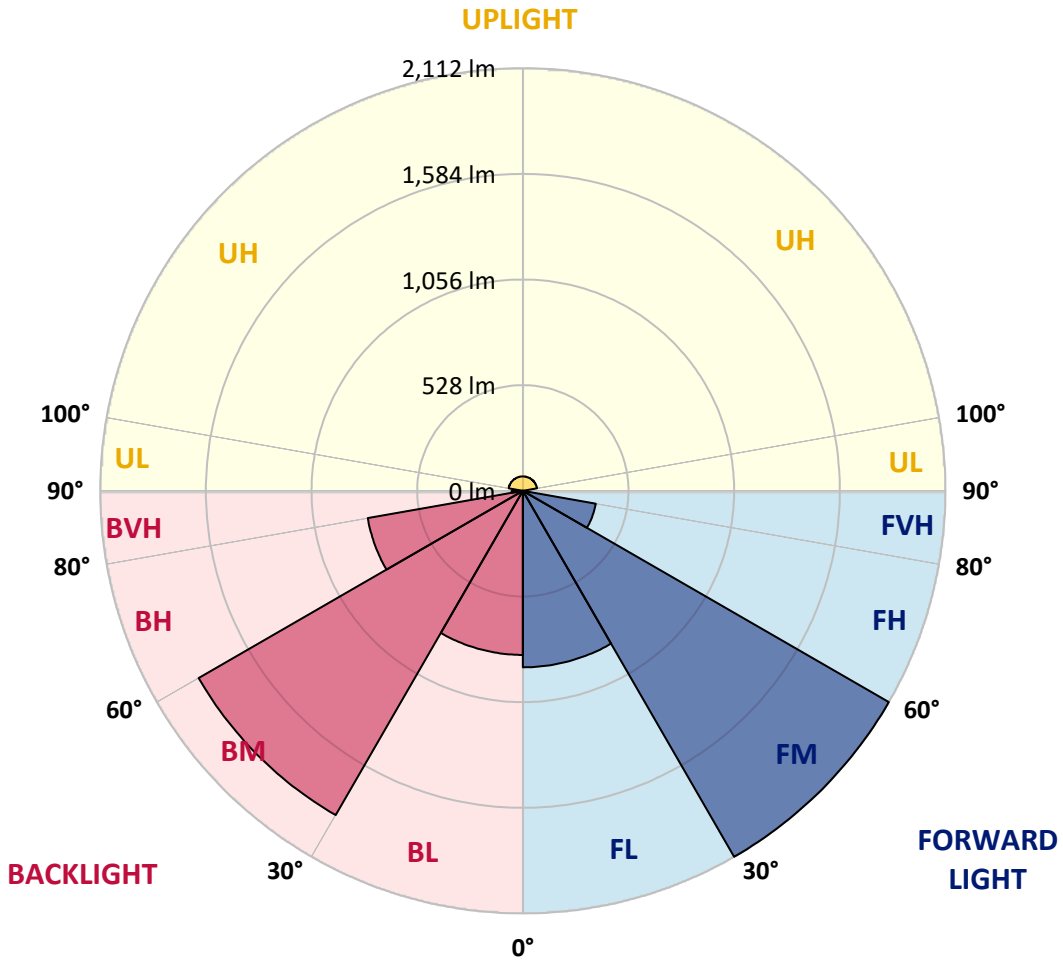
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	882.0	12.6			
FM	(30°-60°)	2111.9	30.2			
FH	(60°-80°)	370.0	5.3			G0/660
FVH	(80°-90°)	8.7	0.1			G0/10
BL	(0°-30°)	820.0	11.7	B2/1000		
BM	(30°-60°)	1870.9	26.8	B2/2500		
BH	(60°-80°)	787.0	11.3	B2/1000		G2/1000
BVH	(80°-90°)	56.3	0.8			G1/100
UL	(90°-100°)	3.3	0.0		U1/10	
UH	(100°-180°)	72.0	1.0		U3/500	

BUG Rating: B2-U3-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2
1°	2039.5	2038.6	2037.1	2031.5	2029.6	2026.6	2029.3	2027.6	2026.3	2030.3	2034.5
2°	2047.1	2045.6	2040.0	2033.6	2026.9	2021.1	2029.9	2024.7	2023.0	2028.1	2038.0
3°	2057.5	2053.7	2044.4	2032.7	2022.7	2020.2	2038.3	2028.9	2020.0	2027.3	2041.1
4°	2065.8	2061.2	2048.1	2030.6	2019.7	2024.1	2058.6	2039.6	2019.9	2024.3	2042.8
5°	2072.6	2067.1	2049.3	2027.9	2018.3	2035.1	2085.6	2064.2	2020.0	2019.7	2046.6
6°	2083.2	2072.3	2050.3	2020.2	2017.4	2059.9	2098.4	2085.0	2022.3	2014.7	2047.0
7°	2091.1	2078.4	2051.0	2016.4	2019.4	2080.8	2091.3	2093.2	2027.3	2009.3	2046.4
8°	2099.6	2084.3	2051.2	2011.8	2024.1	2089.1	2071.3	2086.0	2038.0	2003.6	2045.5
9°	2108.1	2092.8	2050.5	2007.5	2031.9	2078.8	2056.3	2062.6	2049.9	1997.1	2040.9
10°	2117.5	2098.8	2049.2	2001.3	2046.7	2059.3	2041.1	2046.6	2057.4	1986.6	2039.2
11°	2127.7	2105.1	2048.2	1993.8	2054.2	2042.8	2028.5	2030.9	2056.7	1978.1	2036.4
12°	2140.0	2112.8	2046.6	1984.8	2055.6	2027.5	2016.6	2017.8	2050.0	1969.8	2034.0
13°	2151.3	2118.7	2044.3	1975.9	2049.5	2013.9	2008.5	2003.0	2033.6	1960.5	2029.5
14°	2163.9	2126.6	2042.2	1967.3	2035.3	1999.7	2002.6	1989.8	2013.8	1952.7	2026.4
15°	2177.1	2135.3	2037.3	1954.9	2014.0	1986.7	2003.4	1982.3	1994.9	1942.2	2022.7
16°	2195.2	2144.8	2034.3	1945.0	1995.2	1978.0	2004.7	1978.0	1975.9	1930.8	2021.8
17°	2209.4	2158.1	2032.5	1934.0	1976.2	1973.6	2009.2	1974.9	1957.2	1919.4	2018.9
18°	2225.9	2168.1	2032.9	1922.5	1957.0	1970.1	2012.2	1972.6	1935.6	1904.8	2015.5
19°	2241.2	2179.2	2030.0	1912.5	1938.9	1967.9	2015.1	1970.8	1916.7	1892.9	2011.9
20°	2257.6	2191.7	2028.0	1900.4	1919.2	1962.1	2018.1	1967.1	1897.5	1881.3	2004.4
21°	2274.3	2203.5	2022.2	1889.4	1897.4	1959.3	2019.6	1965.5	1879.5	1870.5	1999.6
22°	2290.8	2216.3	2019.2	1877.3	1878.2	1957.8	2023.2	1963.8	1863.4	1859.8	1994.9
23°	2312.6	2229.0	2016.1	1862.4	1862.7	1957.9	2027.1	1962.6	1849.6	1850.3	1992.8
24°	2331.0	2241.5	2012.1	1851.5	1846.8	1957.0	2032.2	1963.0	1835.7	1841.2	1988.0
25°	2348.7	2254.9	2010.4	1841.8	1833.0	1955.3	2035.5	1962.5	1822.1	1834.6	1981.9
26°	2366.3	2268.1	2005.1	1834.8	1818.3	1954.2	2039.7	1961.4	1807.2	1828.3	1974.9
27°	2383.8	2285.7	2000.1	1827.5	1803.3	1951.2	2046.3	1959.0	1791.3	1819.7	1966.0
28°	2399.8	2299.0	1993.8	1820.3	1785.1	1948.9	2053.6	1956.8	1774.9	1802.9	1957.8
29°	2417.1	2312.4	1987.0	1810.5	1768.9	1946.7	2058.6	1954.5	1758.7	1787.5	1949.9
30°	2433.4	2324.3	1980.3	1796.1	1751.9	1944.1	2064.9	1954.2	1738.4	1767.5	1941.5
31°	2448.4	2334.9	1974.4	1778.6	1734.7	1942.0	2068.6	1951.2	1721.7	1739.8	1930.7
32°	2461.5	2347.6	1966.5	1758.0	1714.2	1939.6	2071.2	1950.7	1705.1	1706.9	1921.9
33°	2472.7	2359.9	1959.8	1730.2	1696.2	1938.2	2072.2	1949.5	1689.9	1672.5	1912.9
34°	2481.8	2372.3	1951.9	1690.7	1678.6	1936.6	2071.7	1948.4	1673.5	1640.9	1905.5
35°	2491.1	2384.9	1942.7	1656.1	1661.0	1936.8	2072.2	1946.3	1657.0	1608.9	1895.4
36°	2494.6	2393.8	1934.6	1620.9	1643.6	1933.1	2083.8	1940.7	1639.8	1568.8	1884.3
37°	2494.2	2400.8	1926.3	1585.0	1626.4	1927.5	2097.5	1935.5	1619.2	1533.9	1873.6
38°	2489.9	2405.7	1917.1	1548.9	1608.4	1920.9	2109.1	1934.6	1601.3	1498.4	1858.5
39°	2477.4	2408.4	1908.5	1512.6	1590.1	1917.0	2097.4	1938.7	1581.5	1462.2	1849.6
40°	2464.2	2407.2	1901.7	1476.6	1566.7	1923.1	2081.2	1947.2	1560.0	1424.4	1840.6
41°	2446.5	2402.7	1894.6	1441.2	1547.0	1931.5	2086.1	1940.2	1538.4	1391.2	1833.1
42°	2424.3	2394.4	1890.1	1401.4	1525.9	1925.4	2098.2	1915.5	1518.0	1359.4	1828.6
43°	2394.7	2378.3	1886.6	1367.6	1504.1	1900.5	2099.8	1910.4	1495.4	1326.0	1822.7
44°	2359.7	2360.0	1883.9	1335.3	1479.5	1894.9	2091.6	1915.5	1470.6	1293.6	1818.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	2317.8	2336.7	1883.5	1302.6	1455.0	1900.6	2079.3	1914.1	1444.9	1260.8	1815.2
46°	2263.0	2307.1	1883.8	1267.9	1426.7	1899.5	2067.2	1903.1	1424.4	1225.8	1814.0
47°	2206.5	2271.8	1884.2	1232.8	1403.4	1889.5	2058.3	1891.8	1412.6	1185.7	1812.6
48°	2142.0	2228.0	1886.0	1196.8	1390.8	1878.1	2046.1	1880.6	1398.4	1150.3	1811.3
49°	2069.8	2177.1	1887.6	1160.3	1377.8	1866.5	2032.7	1869.3	1354.5	1114.7	1812.3
50°	1981.3	2119.1	1889.5	1120.7	1341.5	1855.3	2016.8	1853.4	1323.4	1078.6	1810.2
51°	1895.6	2042.3	1892.3	1084.8	1302.3	1839.8	1995.5	1836.1	1305.9	1042.1	1810.9
52°	1801.7	1966.4	1893.4	1047.6	1284.9	1823.8	1979.7	1818.8	1282.4	1004.0	1812.2
53°	1695.8	1881.9	1894.7	1006.5	1263.2	1806.1	1963.6	1800.4	1257.9	967.3	1813.3
54°	1569.4	1782.0	1894.2	969.3	1237.8	1787.3	1946.5	1782.1	1231.3	930.0	1815.6
55°	1447.1	1681.3	1893.3	931.7	1209.7	1769.5	1928.1	1765.8	1204.1	891.7	1814.9
56°	1321.3	1567.2	1890.7	894.2	1181.6	1753.5	1904.6	1749.8	1176.5	847.4	1812.4
57°	1169.7	1428.7	1883.4	853.1	1151.4	1735.5	1874.8	1734.0	1142.3	808.0	1807.4
58°	1014.4	1293.7	1872.8	813.6	1115.6	1719.6	1829.4	1711.8	1109.7	769.0	1796.3
59°	840.0	1155.7	1852.7	774.1	1081.4	1701.7	1766.5	1689.9	1077.7	725.7	1782.1
60°	632.6	1011.1	1827.2	729.8	1048.7	1680.3	1710.8	1664.0	1047.3	686.4	1760.6
61°	446.6	835.6	1790.6	691.6	1013.2	1653.0	1599.6	1624.7	1016.5	646.9	1730.7
62°	297.8	659.7	1741.0	653.3	983.3	1616.6	1435.9	1567.4	989.5	607.2	1683.0
63°	196.2	471.7	1662.2	613.8	952.9	1568.5	1325.3	1516.0	962.1	568.2	1619.9
64°	135.6	301.9	1565.5	571.0	923.2	1514.1	1261.9	1405.1	935.4	536.9	1532.1
65°	117.2	172.7	1441.8	537.2	893.2	1388.3	1198.4	1284.1	907.7	497.0	1412.8
66°	109.2	109.0	1288.5	501.6	865.2	1274.1	1129.9	1217.9	881.2	459.2	1244.1
67°	103.0	85.7	1089.5	454.0	836.8	1217.5	1045.1	1173.0	852.4	423.1	1058.4
68°	96.6	77.1	881.6	413.0	806.9	1169.4	966.3	1128.9	818.3	383.2	854.7
69°	90.6	70.8	659.4	374.7	772.3	1126.0	885.2	1070.9	784.2	345.8	609.5
70°	85.7	64.4	443.4	339.3	739.2	1074.7	792.0	1015.8	748.5	309.8	404.0
71°	82.3	59.4	278.8	301.3	703.1	1021.5	705.4	961.9	708.7	272.6	247.4
72°	77.8	55.8	156.4	268.1	660.4	965.2	615.0	906.1	649.1	240.3	143.0
73°	73.2	52.5	90.5	236.9	602.9	910.3	514.4	842.2	594.9	210.1	84.5
74°	67.1	48.2	69.4	208.5	548.2	852.7	431.2	779.4	562.1	180.3	69.1
75°	62.6	43.2	59.5	179.6	515.9	793.1	357.6	705.9	527.8	156.3	59.8
76°	57.6	38.1	53.1	155.7	483.3	716.3	294.6	621.1	493.6	134.4	54.0
77°	54.1	34.5	49.4	135.5	449.8	634.9	237.2	532.5	462.2	115.0	50.2
78°	50.5	31.2	47.0	117.4	420.1	552.4	191.6	458.7	432.8	96.0	48.8
79°	47.5	28.7	43.5	100.0	392.2	475.5	143.7	394.1	401.8	80.3	45.7
80°	44.3	26.2	36.9	85.2	360.8	402.9	79.8	334.7	372.6	65.6	37.9
81°	40.4	24.1	29.2	68.9	331.5	342.6	32.1	272.7	343.6	51.6	30.1
82°	36.2	21.8	23.1	51.0	302.4	283.8	23.0	208.9	315.2	38.3	23.1
83°	25.7	18.0	17.9	38.3	271.9	202.1	18.6	119.4	279.0	28.5	17.6
84°	18.3	14.9	14.9	27.9	235.9	103.2	13.6	43.2	241.8	20.7	14.5
85°	14.4	11.6	12.3	19.9	201.5	31.0	9.9	14.1	201.7	14.6	11.9
86°	10.7	8.8	10.1	13.0	163.3	11.4	5.9	8.7	165.4	9.8	9.8
87°	6.4	6.3	7.6	8.2	125.2	6.3	3.4	5.0	116.0	6.5	7.4
88°	3.1	3.5	4.6	4.2	66.0	2.9	1.9	2.4	48.7	4.0	4.7
89°	1.5	2.1	2.1	1.6	9.9	1.0	0.9	1.1	3.1	2.7	3.5

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1.3	1.9	1.7	1.2	0.9	0.0	0.9	1.1	2.8	2.5	3.7
91°	1.5	2.2	1.9	1.1	1.0	0.0	1.0	1.2	3.1	2.8	3.9
92°	1.6	2.4	2.0	1.3	1.2	0.0	1.1	1.3	3.4	2.9	4.2
93°	2.0	2.7	2.3	1.3	1.3	0.0	1.3	1.5	3.7	3.2	4.5
94°	2.1	2.9	2.4	1.5	1.6	0.0	1.5	1.8	3.9	3.6	4.7
95°	2.4	3.2	2.7	1.6	1.9	0.6	1.7	2.1	4.3	3.8	5.1
96°	2.7	3.5	2.8	1.7	2.0	0.6	1.9	2.3	4.7	4.0	5.4
97°	3.0	3.8	3.1	1.9	2.1	0.7	2.0	2.7	5.1	4.3	5.7
98°	3.4	4.2	3.2	2.1	2.4	0.9	2.4	3.1	5.4	4.6	6.1
99°	3.7	4.5	3.5	2.4	2.7	0.9	2.8	3.4	5.8	4.9	6.3
100°	4.0	4.9	3.6	2.6	2.9	1.2	3.0	3.9	6.2	5.3	6.6
101°	4.4	5.3	3.9	2.8	3.1	1.4	3.5	4.2	6.6	5.6	6.9
102°	4.9	5.6	4.2	3.1	3.4	1.5	3.8	4.6	7.0	6.1	7.2
103°	5.3	6.0	4.4	3.3	3.7	1.8	4.2	5.3	7.5	6.3	7.6
104°	5.8	6.3	4.6	3.6	4.1	2.0	4.7	5.7	7.9	6.7	7.9
105°	6.3	6.6	4.9	3.8	4.4	2.3	5.2	6.2	8.3	7.0	8.2
106°	6.7	7.0	5.2	4.2	4.7	2.7	5.7	6.8	8.9	7.5	8.5
107°	7.1	7.4	5.5	4.3	5.1	3.0	6.3	7.3	9.2	7.8	8.8
108°	7.5	7.7	5.8	4.7	5.4	3.4	6.9	8.0	9.8	8.2	9.2
109°	8.0	8.1	6.1	5.0	5.9	3.8	7.3	8.4	10.2	8.6	9.5
110°	8.3	8.5	6.3	5.4	6.2	4.2	8.0	9.1	10.8	9.0	9.8
111°	8.9	8.9	6.6	5.7	6.6	4.6	8.6	9.7	11.1	9.3	10.1
112°	9.3	9.3	6.9	6.0	6.9	5.1	9.2	10.3	11.6	9.7	10.4
113°	9.8	9.7	7.2	6.3	7.3	5.6	9.9	10.8	12.0	10.1	10.8
114°	10.3	10.1	7.6	6.7	7.6	6.1	10.5	11.6	12.3	10.5	11.0
115°	10.7	10.5	7.7	7.0	7.9	6.6	11.2	12.3	12.7	10.9	11.3
116°	11.1	10.8	8.1	7.3	8.1	7.2	11.9	12.9	13.1	11.3	11.7
117°	11.6	11.2	8.4	7.6	8.6	7.7	12.4	13.4	13.4	11.7	12.0
118°	12.0	11.6	8.7	8.0	8.8	8.2	13.2	14.1	13.9	12.0	12.3
119°	12.3	11.9	9.0	8.3	9.2	8.7	13.9	14.6	14.2	12.5	12.7
120°	12.8	12.2	9.4	8.6	9.6	9.3	14.5	15.1	14.5	12.8	12.8
121°	13.2	12.5	9.7	9.1	9.8	9.8	15.2	15.6	14.8	13.1	13.1
122°	13.6	12.8	10.0	9.3	10.2	10.2	15.8	16.2	15.0	13.5	13.4
123°	13.9	13.2	10.2	9.8	10.6	10.8	16.4	16.7	15.4	13.9	13.6
124°	14.2	13.4	10.5	10.0	10.9	11.2	16.9	17.1	15.7	14.2	13.8
125°	14.6	13.8	10.8	10.3	11.2	11.6	17.5	17.6	16.1	14.5	14.2
126°	14.9	14.1	11.0	10.8	11.7	12.1	17.9	18.0	16.5	14.7	14.3
127°	15.3	14.4	11.3	11.1	12.1	12.5	18.3	18.3	16.6	15.1	14.7
128°	15.4	14.7	11.6	11.4	12.4	12.9	18.8	18.7	17.1	15.3	15.0
129°	15.8	14.9	11.7	11.7	12.8	13.2	19.1	19.1	17.5	15.5	15.1
130°	16.3	15.3	12.2	12.0	13.2	13.7	19.6	19.3	17.7	15.8	15.4
131°	16.7	15.4	12.3	12.3	13.8	14.0	19.9	19.6	17.9	16.2	15.5
132°	16.7	15.7	12.6	12.6	14.2	14.5	20.3	19.9	18.3	16.3	15.9
133°	17.0	16.0	13.0	12.8	14.5	14.9	20.6	20.2	18.6	16.5	16.0
134°	17.2	16.1	13.2	13.2	15.0	15.1	20.9	20.5	19.0	16.8	16.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449825
CATALOG NUMBER: TWC100_T2_80W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	17.4	16.5	13.5	13.4	15.4	15.6	21.3	20.6	19.2	16.9	16.5
136°	17.8	16.7	13.8	13.7	15.8	16.0	21.4	20.8	19.5	17.2	16.7
137°	17.9	16.6	14.0	13.9	16.4	16.4	21.6	21.0	19.7	17.4	16.7
138°	18.3	16.9	14.3	14.3	16.6	16.7	21.9	21.3	19.8	17.6	17.1
139°	18.4	17.1	14.5	14.5	17.0	17.1	21.8	21.4	20.0	17.8	17.2
140°	18.6	17.3	14.7	14.7	17.3	17.5	22.2	21.6	20.2	18.0	17.5
141°	18.7	17.5	14.9	15.0	17.6	17.9	22.3	21.7	20.4	18.1	17.6
142°	19.1	17.6	15.1	15.3	18.0	18.4	22.5	21.8	20.6	18.4	17.9
143°	19.1	17.7	15.5	15.5	18.3	18.7	22.5	22.0	20.8	18.7	18.0
144°	19.2	17.9	15.5	15.8	18.6	19.2	22.8	22.1	20.9	18.9	18.3
145°	19.2	18.2	15.8	15.8	18.8	19.5	22.7	22.2	20.9	19.0	18.4
146°	19.4	18.1	16.1	16.1	19.0	19.9	22.8	22.3	21.1	19.2	18.6
147°	19.5	18.3	16.3	16.4	19.2	20.2	22.9	22.3	21.2	19.4	18.7
148°	19.5	18.4	16.5	16.6	19.4	20.5	22.9	22.5	21.3	19.4	19.0
149°	19.7	18.6	16.8	16.8	19.5	20.8	23.0	22.5	21.3	19.8	19.2
150°	19.7	18.6	16.9	17.1	19.7	21.0	22.8	22.5	21.5	19.9	19.2
151°	19.9	18.8	17.1	17.2	19.8	21.3	22.9	22.5	21.4	20.1	19.4
152°	19.9	18.8	17.3	17.5	19.9	21.5	22.9	22.5	21.6	20.2	19.5
153°	20.0	19.0	17.6	17.6	20.1	21.7	22.8	22.5	21.7	20.5	19.7
154°	20.0	19.0	17.7	18.0	20.2	21.7	22.7	22.5	21.7	20.4	19.8
155°	20.1	19.2	18.0	18.0	20.4	21.8	22.7	22.5	21.7	20.5	20.0
156°	20.1	19.2	18.1	18.4	20.4	22.0	22.7	22.4	21.6	20.6	20.1
157°	20.1	19.3	18.3	18.5	20.5	21.8	22.5	22.5	21.7	20.8	20.2
158°	20.4	19.2	18.6	18.7	20.7	22.1	22.4	22.3	21.7	21.0	20.3
159°	20.2	19.5	18.7	18.9	20.7	22.1	22.3	22.4	21.8	21.0	20.5
160°	20.3	19.5	18.9	19.3	20.8	22.1	22.2	22.3	21.8	21.0	20.6
161°	20.4	19.7	19.0	19.2	20.9	22.1	22.2	22.3	21.7	21.2	20.6
162°	20.4	19.8	19.2	19.4	21.0	22.3	22.2	22.3	21.7	21.2	20.7
163°	20.4	19.8	19.4	19.7	21.2	22.3	22.1	22.1	21.7	21.4	20.8
164°	20.5	19.9	19.6	19.9	21.2	22.3	22.0	22.1	21.8	21.4	20.8
165°	20.6	20.1	19.6	20.0	21.3	22.3	21.8	22.1	21.8	21.4	20.9
166°	20.6	20.1	19.8	20.1	21.3	22.3	21.8	22.0	21.8	21.4	21.0
167°	20.6	20.2	19.9	20.3	21.4	22.3	22.0	22.1	21.8	21.7	21.2
168°	20.7	20.2	20.1	20.5	21.4	22.3	21.9	22.1	21.8	21.7	21.2
169°	20.8	20.5	20.2	20.6	21.6	22.3	21.7	22.0	21.8	21.8	21.3
170°	20.8	20.5	20.5	20.9	21.7	22.2	21.7	21.8	21.9	21.7	21.3
171°	20.9	20.6	20.5	21.0	21.8	22.3	21.9	22.0	21.7	21.9	21.4
172°	21.0	20.6	20.8	21.1	21.7	22.2	21.8	21.8	21.8	21.9	21.6
173°	21.2	20.8	20.8	21.3	21.7	22.2	21.9	21.7	21.8	22.0	21.6
174°	21.3	20.9	21.0	21.4	21.7	22.1	21.9	21.8	21.7	22.1	21.7
175°	21.4	21.0	21.2	21.6	21.8	22.1	21.9	21.8	21.8	22.0	21.7
176°	21.6	21.2	21.3	21.5	21.8	22.1	22.0	21.9	21.8	22.1	21.7
177°	21.7	21.3	21.3	21.8	21.8	22.2	22.0	21.6	21.6	22.1	21.8
178°	21.7	21.4	21.4	21.7	21.8	22.1	21.8	21.7	21.7	22.1	21.8
179°	21.7	21.5	21.7	21.9	21.9	22.1	21.9	21.7	21.7	22.0	22.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449825
CATALOG NUMBER: TWC100_T2_80W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*21.8*	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8

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Scaled Data Report

REPORT NUMBER: P1449825
CATALOG NUMBER: TWC100_T2_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	2032.2	2032.2
1°	2039.4	2039.5
2°	2049.3	2047.1
3°	2055.4	2057.5
4°	2061.3	2065.8
5°	2065.1	2072.6
6°	2070.4	2083.2
7°	2075.9	2091.1
8°	2081.1	2099.6
9°	2088.4	2108.1
10°	2094.5	2117.5
11°	2101.0	2127.7
12°	2108.6	2140.0
13°	2114.7	2151.3
14°	2122.9	2163.9
15°	2131.0	2177.1
16°	2142.4	2195.2
17°	2152.3	2209.4
18°	2162.6	2225.9
19°	2172.8	2241.2
20°	2184.8	2257.6
21°	2196.2	2274.3
22°	2208.1	2290.8
23°	2220.7	2312.6
24°	2232.2	2331.0
25°	2245.5	2348.7
26°	2257.7	2366.3
27°	2272.1	2383.8
28°	2284.8	2399.8
29°	2297.3	2417.1
30°	2308.3	2433.4
31°	2318.7	2448.4
32°	2330.4	2461.5
33°	2341.7	2472.7
34°	2351.4	2481.8
35°	2362.2	2491.1
36°	*2369.1*	*2494.6*
37°	2373.8	2494.2
38°	2376.8	2489.9
39°	2376.1	2477.4
40°	2372.3	2464.2
41°	2366.8	2446.5
42°	2356.1	2424.3
43°	2338.2	2394.7
44°	2318.4	2359.7

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449825
CATALOG NUMBER: TWC100_T2_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	2293.5	2317.8
46°	2261.9	2263.0
47°	2225.5	2206.5
48°	2180.8	2142.0
49°	2128.8	2069.8
50°	2060.0	1981.3
51°	1989.9	1895.6
52°	1911.1	1801.7
53°	1824.2	1695.8
54°	1720.9	1569.4
55°	1615.0	1447.1
56°	1495.2	1321.3
57°	1366.6	1169.7
58°	1217.8	1014.4
59°	1077.5	840.0
60°	925.4	632.6
61°	759.2	446.6
62°	562.4	297.8
63°	381.7	196.2
64°	234.8	135.6
65°	140.0	117.2
66°	92.3	109.2
67°	79.6	103.0
68°	72.4	96.6
69°	65.3	90.6
70°	59.3	85.7
71°	55.3	82.3
72°	52.2	77.8
73°	48.2	73.2
74°	43.7	67.1
75°	39.0	62.6
76°	35.0	57.6
77°	31.6	54.1
78°	28.6	50.5
79°	26.7	47.5
80°	24.8	44.3
81°	22.8	40.4
82°	20.3	36.2
83°	16.9	25.7
84°	14.2	18.3
85°	10.9	14.4
86°	8.9	10.7
87°	6.8	6.4
88°	4.7	3.1
89°	4.4	1.5

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Scaled Data Report

REPORT NUMBER: P1449825
CATALOG NUMBER: TWC100_T2_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	4.7	1.3
91°	5.1	1.5
92°	5.6	1.6
93°	5.9	2.0
94°	6.4	2.1
95°	6.8	2.4
96°	7.2	2.7
97°	7.7	3.0
98°	8.1	3.4
99°	8.6	3.7
100°	9.1	4.0
101°	9.4	4.4
102°	9.8	4.9
103°	10.2	5.3
104°	10.8	5.8
105°	11.1	6.3
106°	11.5	6.7
107°	12.0	7.1
108°	12.4	7.5
109°	12.7	8.0
110°	13.1	8.3
111°	13.5	8.9
112°	13.9	9.3
113°	14.3	9.8
114°	14.6	10.3
115°	14.9	10.7
116°	15.3	11.1
117°	15.6	11.6
118°	15.8	12.0
119°	16.1	12.3
120°	16.4	12.8
121°	16.6	13.2
122°	16.6	13.6
123°	16.9	13.9
124°	17.2	14.2
125°	17.3	14.6
126°	17.5	14.9
127°	17.7	15.3
128°	17.9	15.4
129°	17.9	15.8
130°	18.2	16.3
131°	18.2	16.7
132°	18.3	16.7
133°	18.4	17.0
134°	18.6	17.2

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Scaled Data Report

REPORT NUMBER: P1449825
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CANDELA DISTRIBUTION (continued):

	330°	360°
135°	18.7	17.4
136°	18.8	17.8
137°	18.9	17.9
138°	19.0	18.3
139°	19.2	18.4
140°	19.1	18.6
141°	19.1	18.7
142°	19.2	19.1
143°	19.4	19.1
144°	19.4	19.2
145°	19.5	19.2
146°	19.5	19.4
147°	19.8	19.5
148°	19.7	19.5
149°	19.7	19.7
150°	19.8	19.7
151°	19.9	19.9
152°	20.0	19.9
153°	20.1	20.0
154°	20.1	20.0
155°	20.1	20.1
156°	20.2	20.1
157°	20.3	20.1
158°	20.3	20.4
159°	20.4	20.2
160°	20.4	20.3
161°	20.4	20.4
162°	20.5	20.4
163°	20.5	20.4
164°	20.6	20.5
165°	20.7	20.6
166°	20.8	20.6
167°	20.9	20.6
168°	20.9	20.7
169°	21.0	20.8
170°	21.0	20.8
171°	21.2	20.9
172°	21.2	21.0
173°	21.4	21.2
174°	21.5	21.3
175°	21.6	21.4
176°	21.6	21.6
177°	21.6	21.7
178°	21.8	21.7
179°	21.9	21.7

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Scaled Data Report

REPORT NUMBER: P1449825
CATALOG NUMBER: TWC100_T2_80W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	21.8	21.8

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

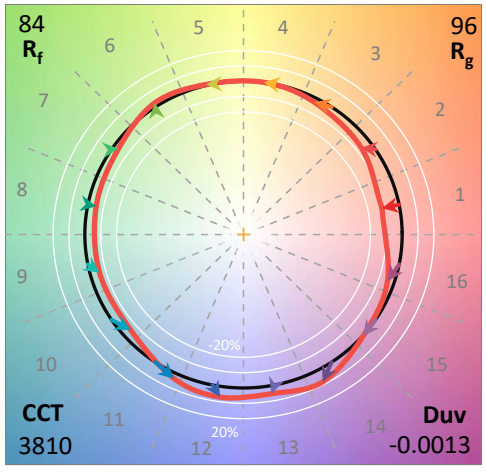
Test Information

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

Spectral Parameters

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

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



Test Conditions

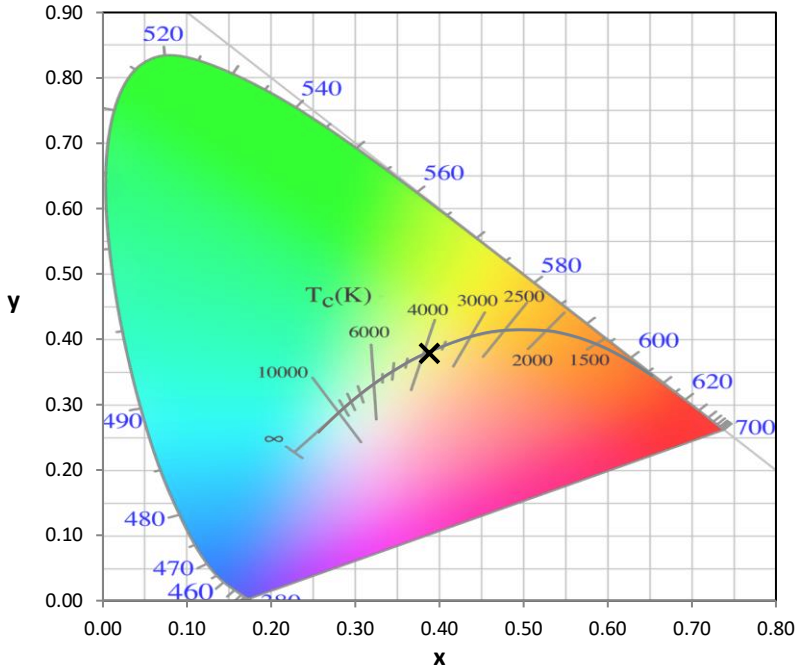
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-2

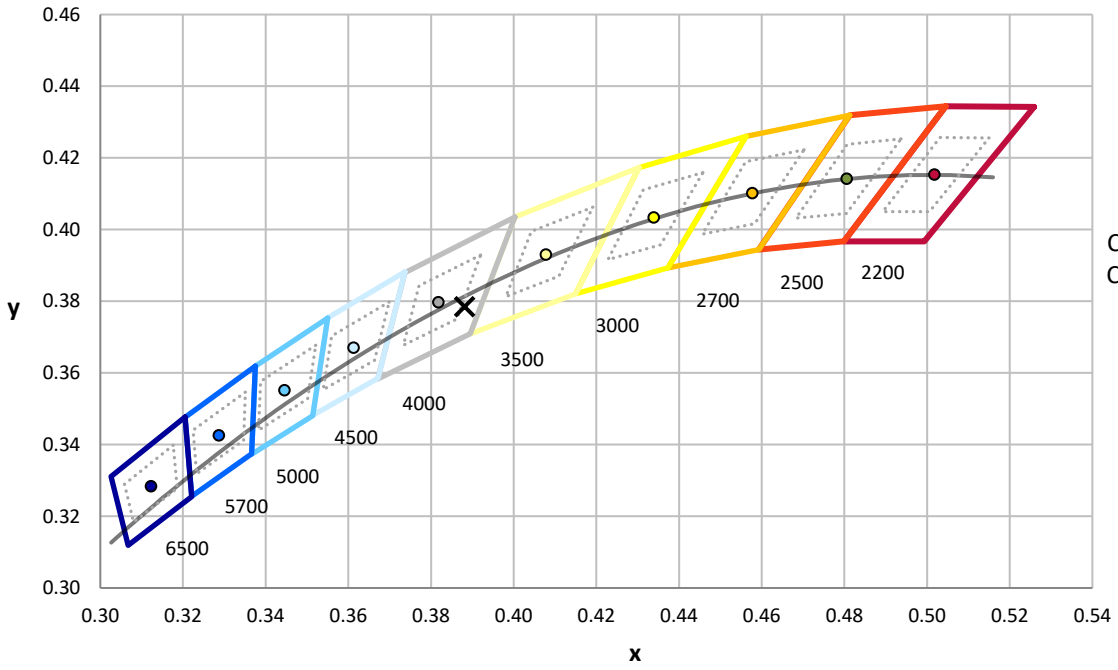
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2601-659-2

CIE 1931 Chromaticity Diagram



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

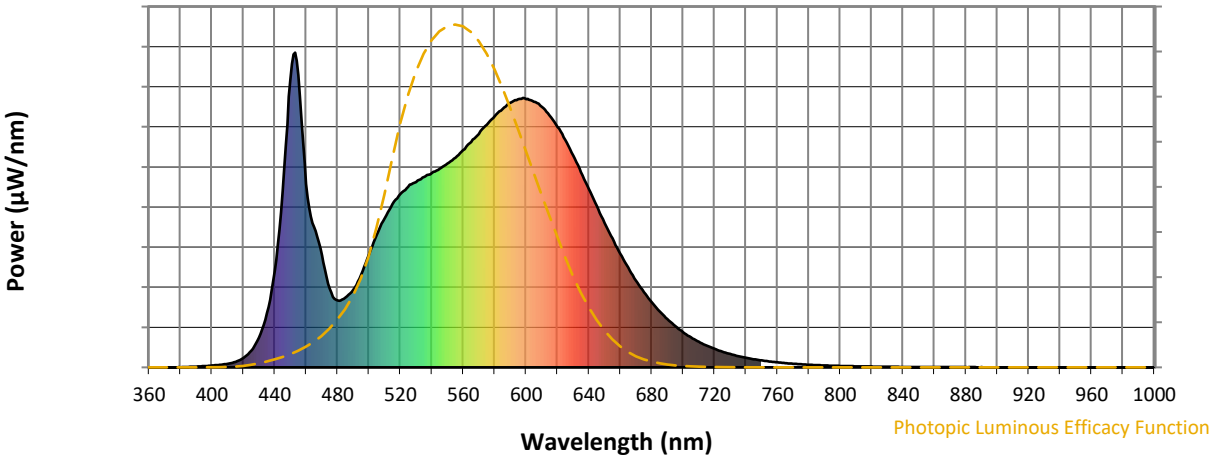


CCT = 3810K
CIE x = 0.3881
CIE y = 0.3785
Duv = -0.0013

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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

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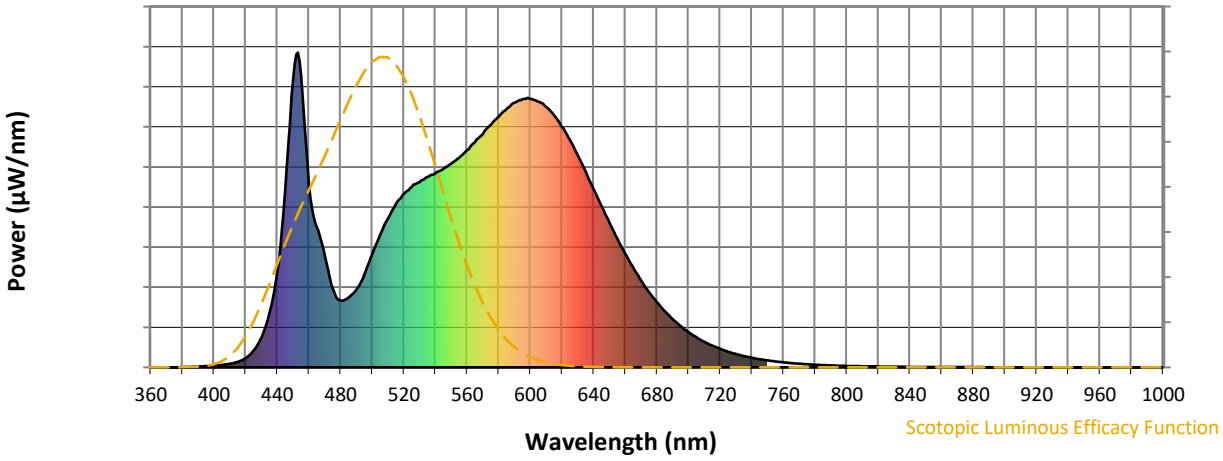
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.64**

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

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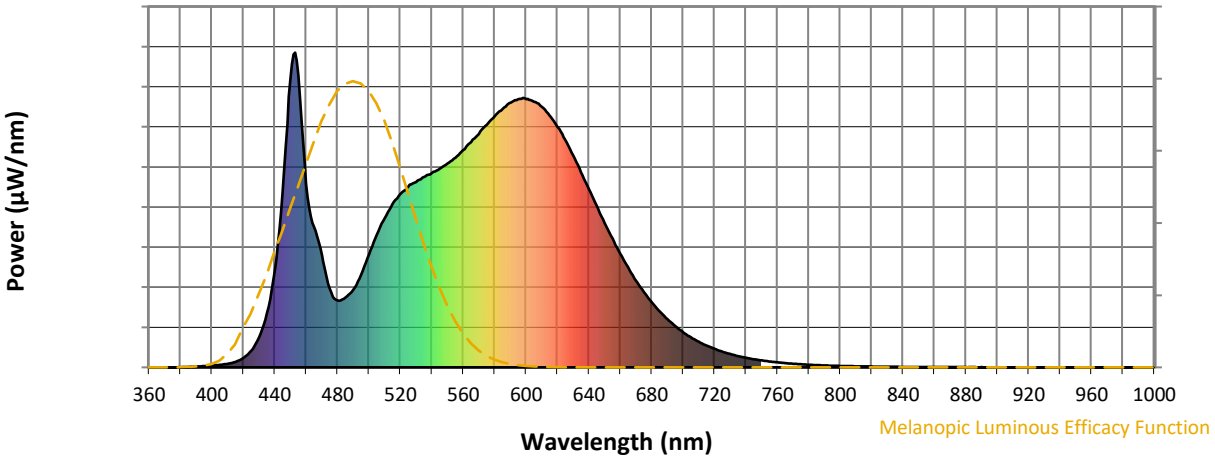
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.35**

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

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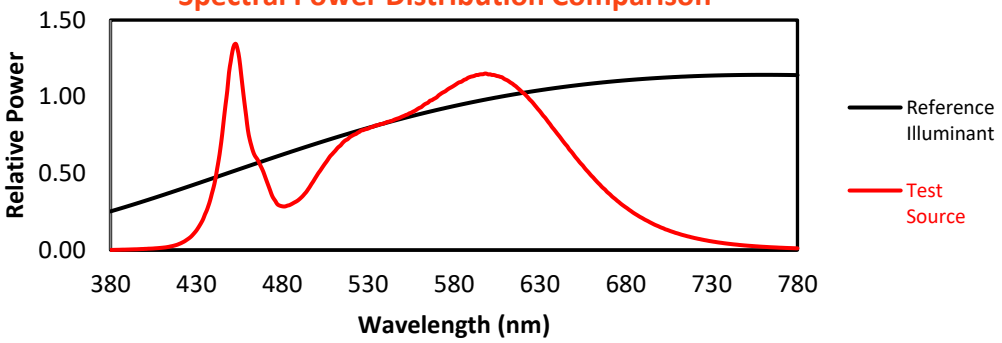
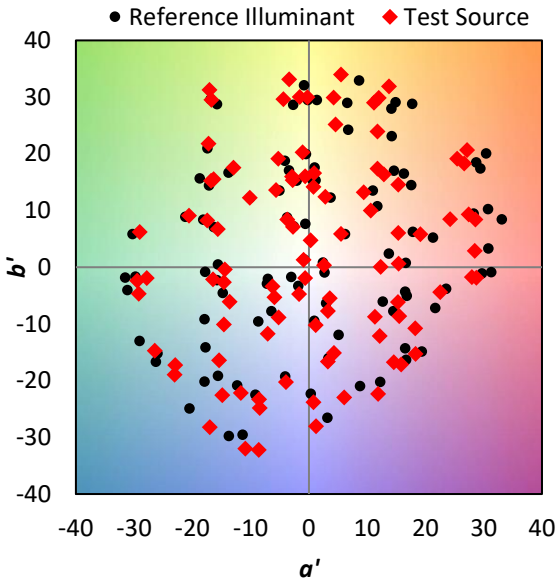
Summary

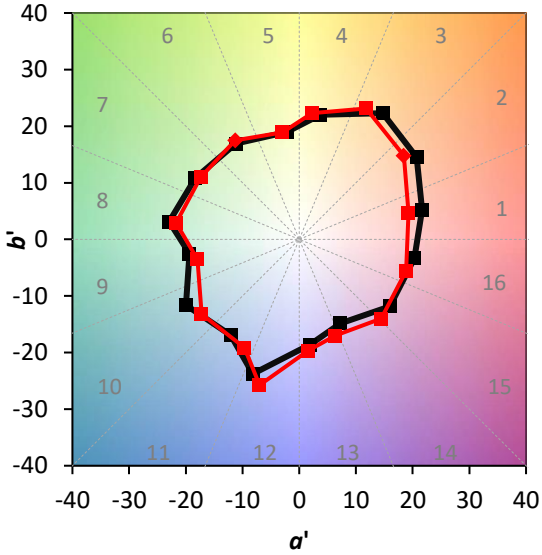
R_f = 84.4
R_g = 96.5
CIE R_a = 84.5
R_9 = 15.9

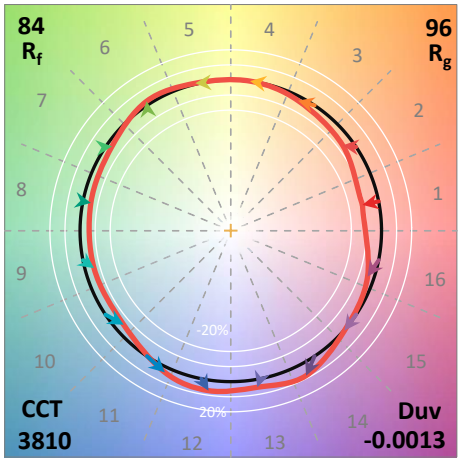
Spectral Power Distribution Comparison

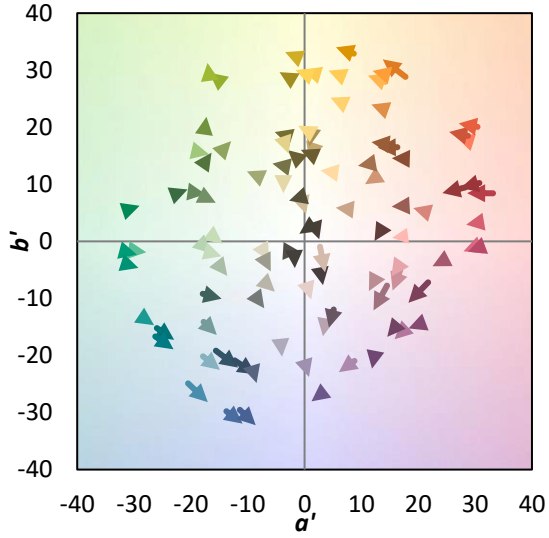


Color Vector Graphics









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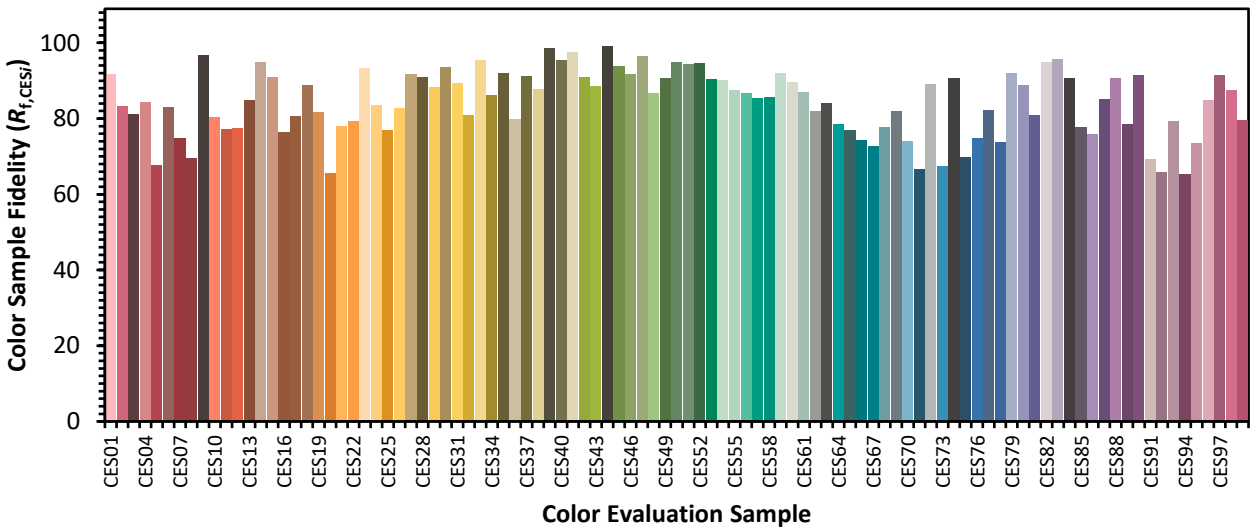
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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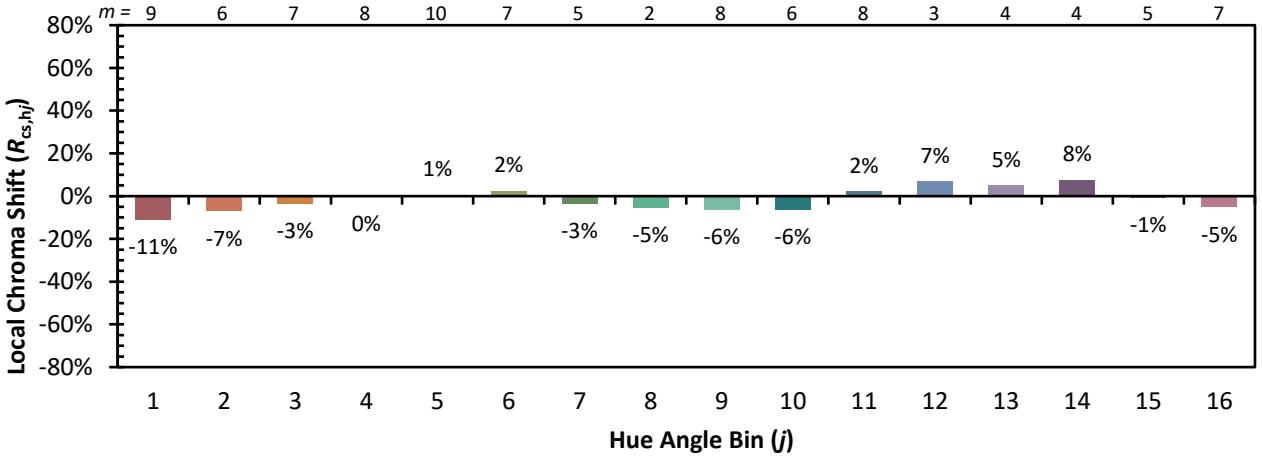
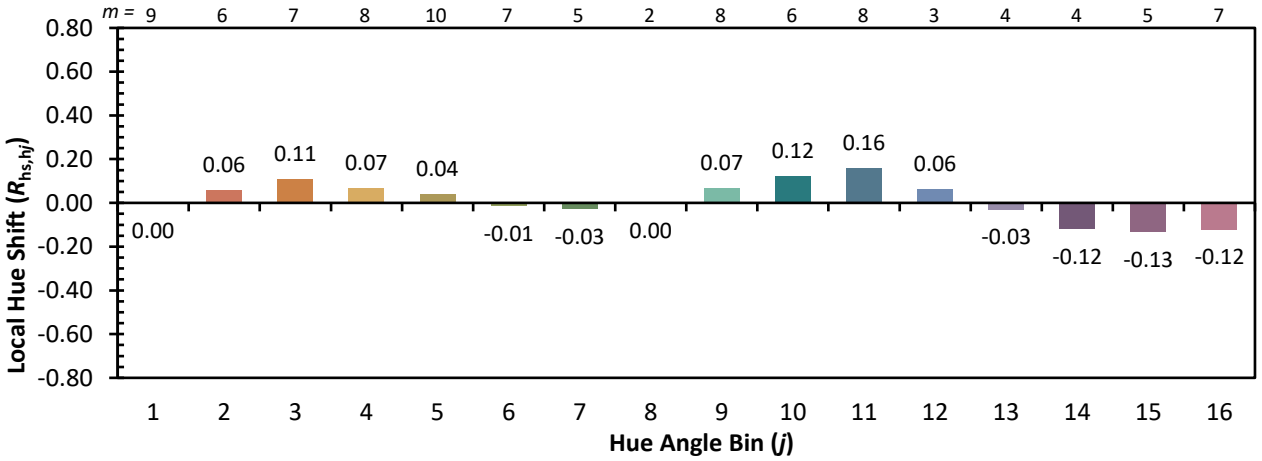
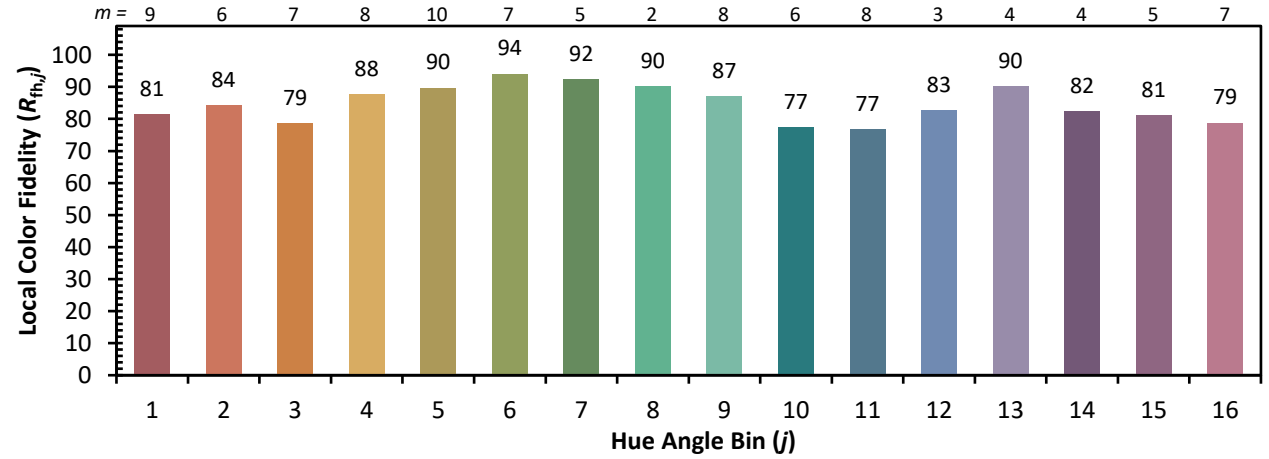
Color Rendition by Hue-Angle Bin







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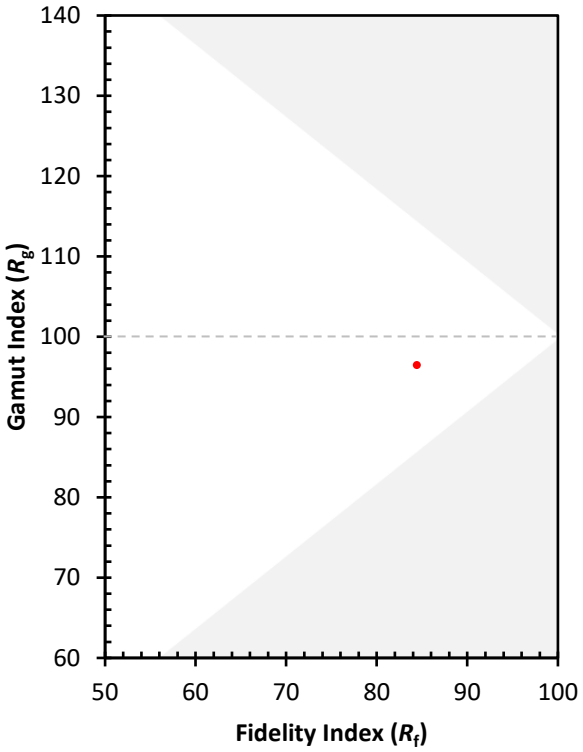
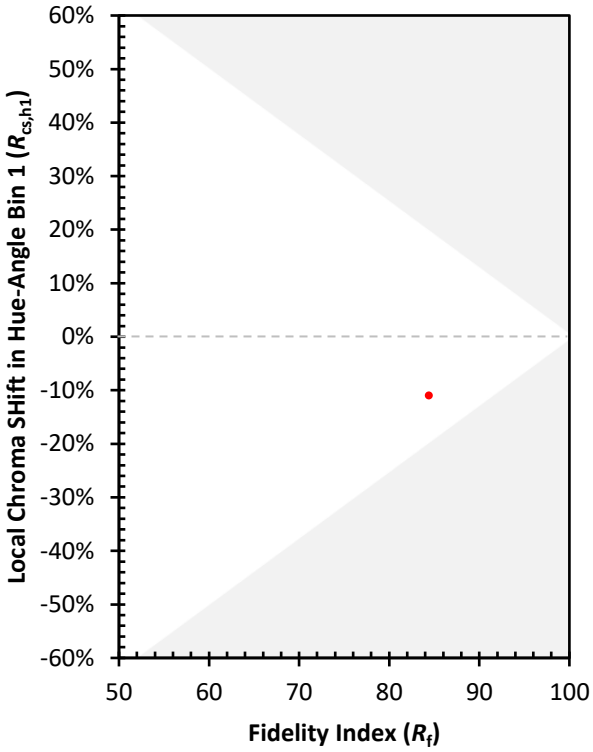
Measure Comparisons





(END OF REPORT)