

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: P1449916

Luminaire Tested: **TWC60_T4_36W_5000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TWC60_T4_36W_5000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 36W
5000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5648 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.42' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G1

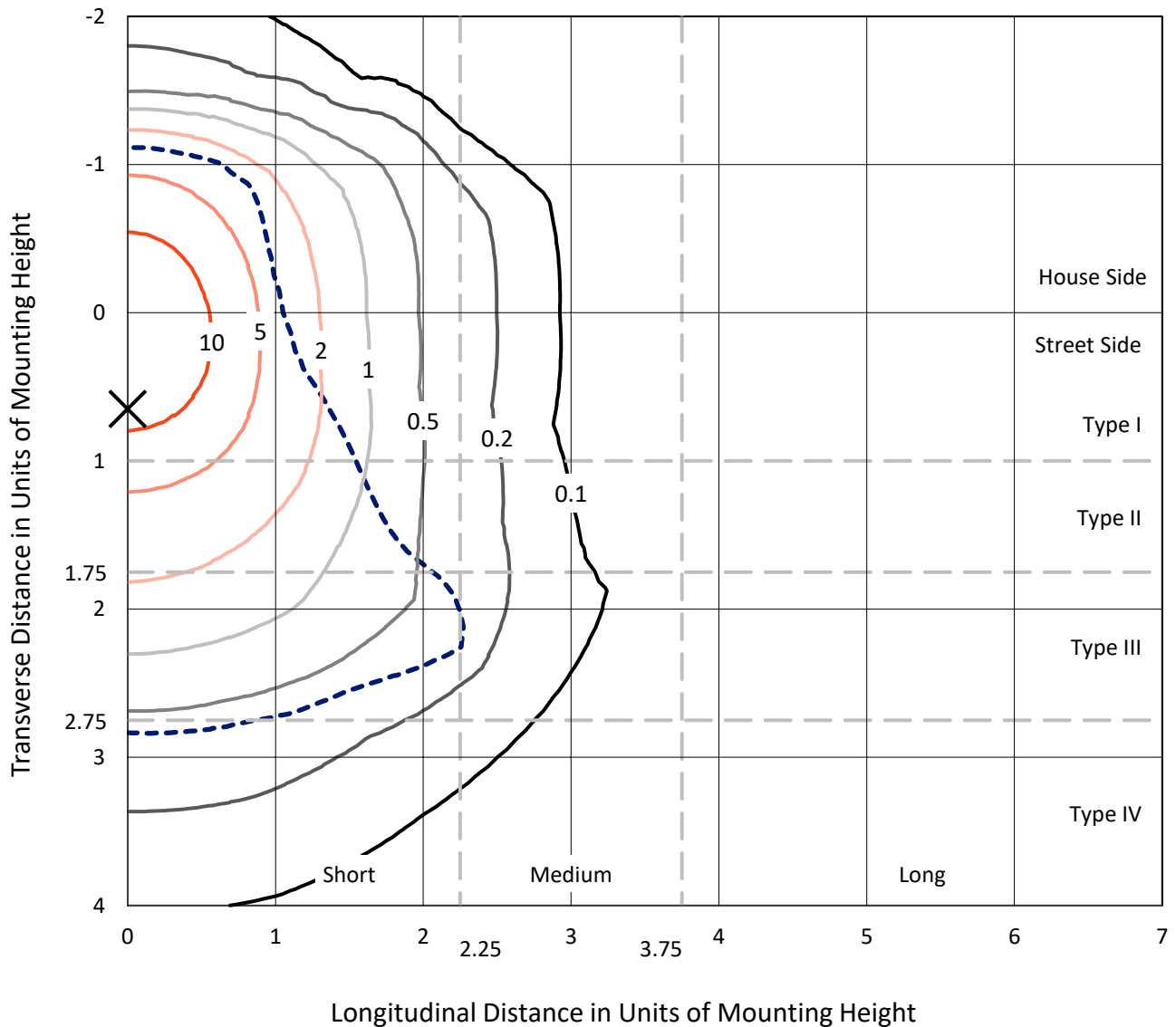
Input Watts (W): 36.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

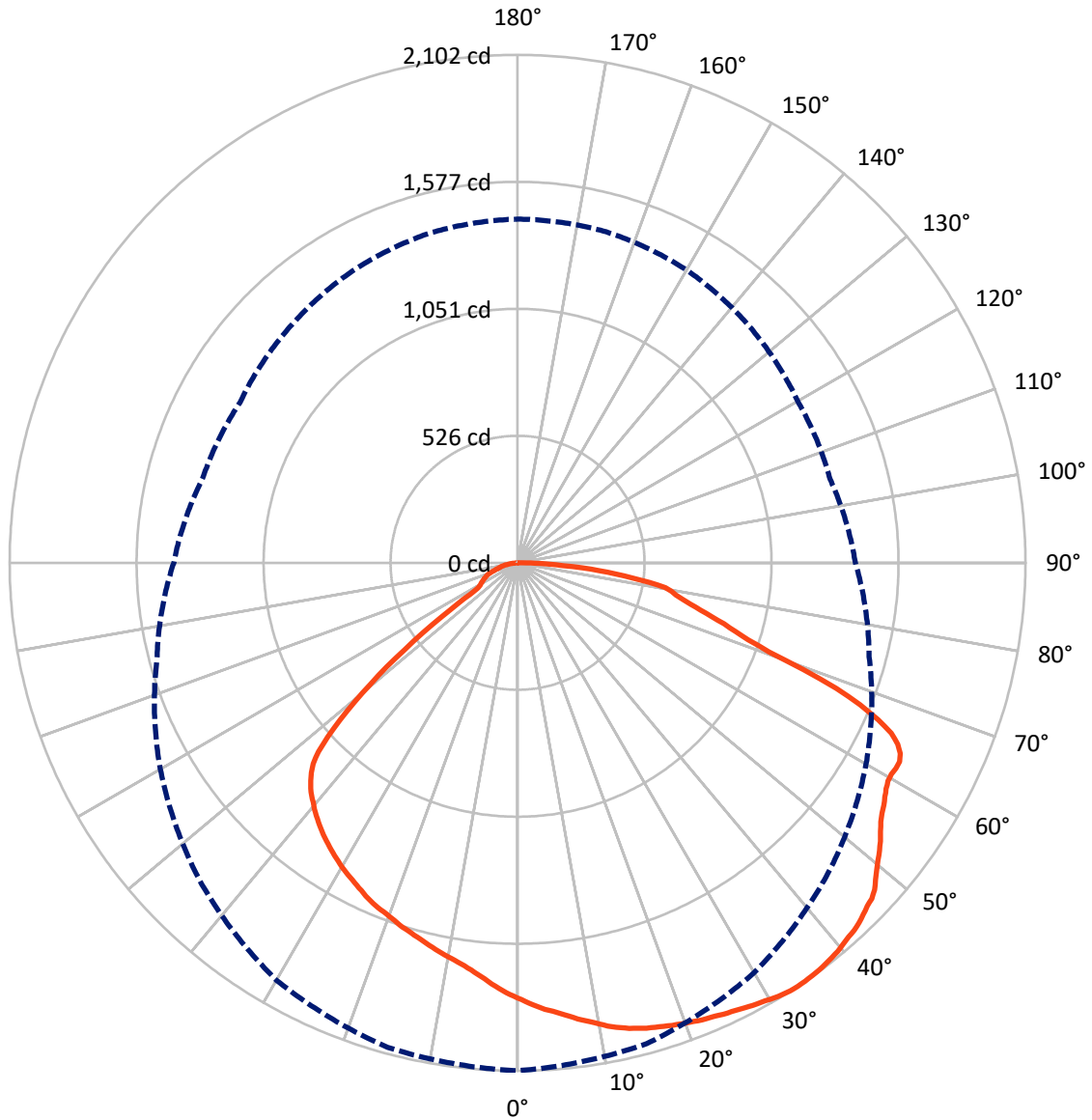
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 33-Deg Vertical

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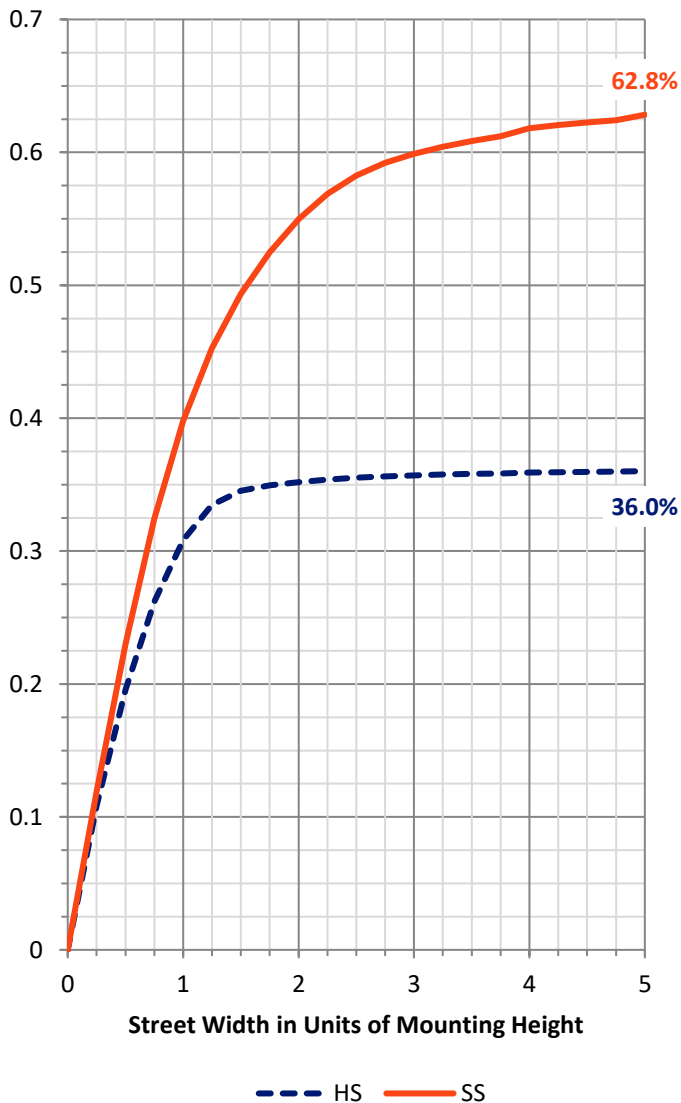
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2047.8	0.0	2047.8
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	3600.2	0.0	3600.2
	% Fixture	63.7	0.0	63.7
Total	Lumens	5648.0	0.0	5648.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	3.0
10°-20°	498.2	8.8
20°-30°	776.8	13.8
30°-40°	980.4	17.4
40°-50°	1072.0	19.0
50°-60°	949.3	16.8
60°-70°	718.6	12.7
70°-80°	375.0	6.6
80°-90°	106.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5648.0	100.0
0°-180°	5648.0	100.0

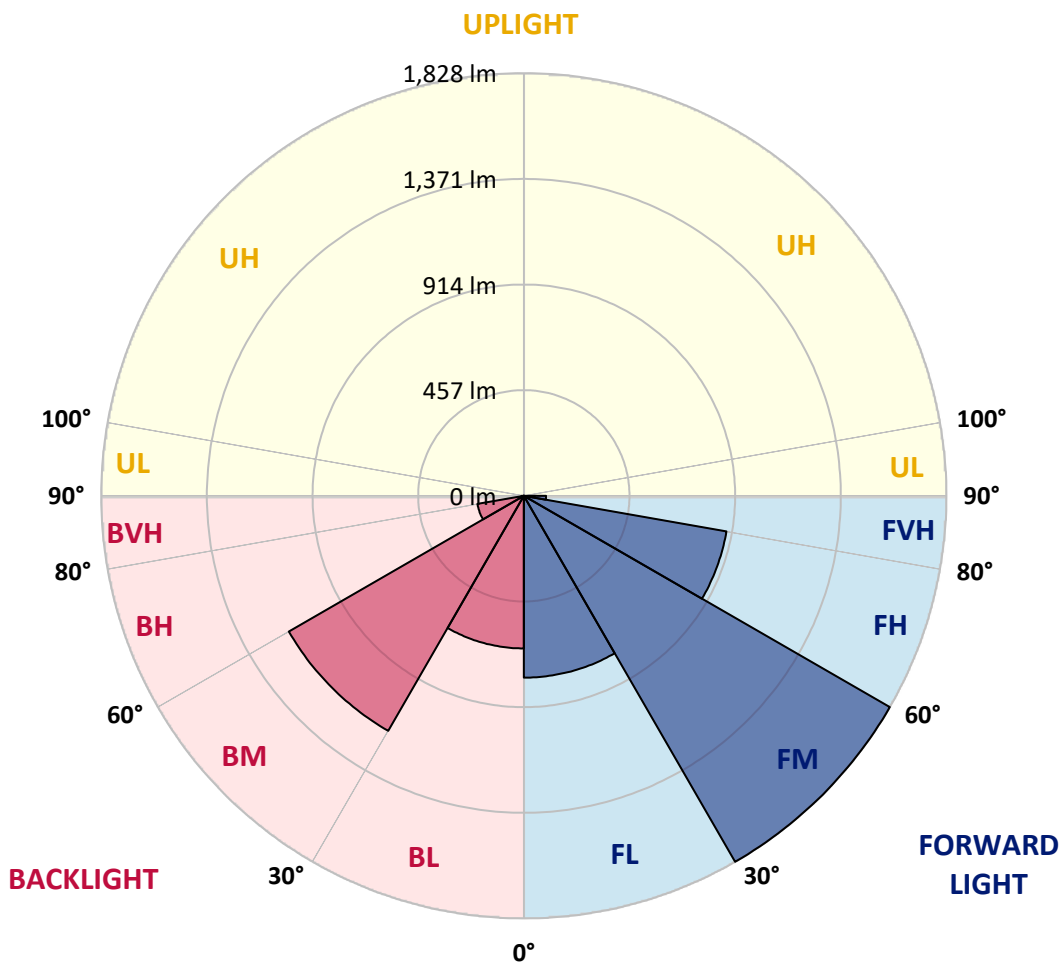


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.3	13.9			
FM (30°-60°)	1827.9	32.4			
FH (60°-80°)	889.8	15.8			G1/1800
FVH (80°-90°)	96.2	1.7			G1/100
BL (0°-30°)	660.0	11.7	B2/1000		
BM (30°-60°)	1173.8	20.8	B2/2500		
BH (60°-80°)	203.7	3.6	B1/500		G1/500
BVH (80°-90°)	10.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9
1°	1823.1	1821.5	1819.1	1816.5	1813.5	1809.9	1806.3	1802.4	1798.9	1796.2	1794.3
2°	1837.7	1836.2	1832.8	1827.1	1818.3	1811.6	1804.5	1797.3	1790.8	1785.3	1781.5
3°	1851.6	1848.8	1844.2	1836.8	1826.1	1813.1	1801.7	1791.7	1782.4	1774.4	1768.6
4°	1862.1	1860.6	1853.9	1844.0	1831.0	1813.4	1798.2	1785.4	1772.9	1761.7	1753.5
5°	1875.5	1872.3	1863.9	1851.0	1834.7	1813.8	1794.3	1778.1	1762.1	1747.2	1735.9
6°	1888.5	1884.3	1873.9	1857.5	1837.9	1813.1	1789.9	1770.1	1750.3	1731.8	1719.2
7°	1904.0	1896.8	1883.5	1863.3	1840.0	1811.9	1784.6	1761.1	1737.8	1716.4	1703.7
8°	1916.2	1908.5	1892.6	1869.7	1841.6	1809.0	1777.9	1751.2	1724.1	1701.6	1689.8
9°	1929.6	1921.2	1902.8	1876.4	1843.1	1805.8	1770.5	1740.4	1710.5	1687.8	1677.9
10°	1945.6	1935.8	1914.2	1882.8	1843.8	1802.5	1763.0	1729.3	1696.9	1674.5	1666.4
11°	1960.0	1949.2	1925.4	1888.6	1844.5	1798.4	1754.8	1717.7	1683.7	1662.6	1656.1
12°	1970.4	1959.9	1935.0	1894.5	1845.3	1793.2	1744.8	1705.0	1669.7	1650.8	1645.0
13°	1982.1	1968.9	1942.7	1900.0	1845.9	1787.6	1735.0	1691.7	1655.2	1638.7	1633.7
14°	1989.9	1977.1	1948.2	1903.3	1846.2	1782.7	1725.3	1678.2	1641.0	1627.1	1623.0
15°	1998.6	1983.6	1951.5	1904.5	1844.8	1777.0	1713.6	1664.0	1627.0	1615.4	1611.6
16°	2005.2	1988.7	1955.3	1905.3	1841.7	1770.4	1702.3	1650.3	1612.5	1603.1	1600.1
17°	2011.5	1993.6	1956.9	1903.7	1837.0	1762.1	1689.6	1635.2	1598.1	1590.3	1588.9
18°	2018.7	1999.0	1956.5	1899.6	1831.0	1753.6	1677.0	1619.8	1584.0	1577.1	1578.1
19°	2025.1	2004.4	1957.8	1896.2	1823.6	1743.8	1663.7	1604.0	1570.0	1564.5	1568.3
20°	2030.6	2010.0	1960.6	1892.4	1815.3	1732.4	1649.7	1588.0	1555.5	1552.7	1558.0
21°	2037.4	2014.6	1962.5	1888.5	1806.7	1719.2	1635.3	1571.7	1541.0	1540.1	1545.5
22°	2042.7	2019.4	1963.6	1884.6	1797.3	1705.2	1618.9	1554.7	1525.9	1527.0	1534.1
23°	2046.6	2022.5	1964.5	1881.1	1787.6	1690.3	1603.2	1537.2	1509.9	1513.6	1523.1
24°	2053.4	2026.5	1964.9	1877.8	1777.7	1674.7	1585.2	1519.3	1493.9	1500.0	1512.7
25°	2058.4	2029.6	1964.2	1873.3	1767.3	1659.0	1566.5	1501.2	1478.2	1486.7	1502.5
26°	2064.5	2032.6	1963.4	1868.0	1755.4	1642.5	1547.9	1482.1	1462.5	1472.4	1491.1
27°	2071.4	2035.9	1963.8	1862.3	1743.5	1625.2	1529.0	1463.7	1446.2	1458.1	1478.5
28°	2077.4	2040.9	1963.3	1856.0	1732.1	1607.3	1509.3	1444.0	1429.0	1444.5	1465.4
29°	2082.8	2045.5	1961.2	1849.2	1719.6	1588.2	1488.6	1424.0	1411.3	1431.7	1451.8
30°	2090.7	2049.8	1960.4	1841.6	1707.3	1568.4	1466.8	1402.9	1393.4	1417.4	1439.0
31°	2096.6	2053.4	1959.8	1833.7	1694.3	1548.2	1444.1	1382.3	1374.8	1401.5	1427.1
32°	2100.3	2057.9	1959.2	1825.2	1680.4	1528.0	1422.3	1360.9	1356.4	1385.3	1413.7
33°	2102.4	2060.9	1958.6	1817.2	1665.8	1506.5	1398.1	1338.9	1338.5	1369.3	1399.5
34°	2101.1	2060.2	1957.9	1809.0	1649.9	1485.1	1375.1	1317.0	1319.9	1352.8	1385.2
35°	2099.6	2059.9	1957.6	1800.0	1633.2	1462.4	1350.8	1294.9	1300.9	1335.9	1370.7
36°	2098.1	2056.7	1955.0	1790.4	1615.9	1439.3	1325.0	1273.1	1281.7	1318.6	1355.7
37°	2093.0	2052.6	1950.2	1781.4	1597.6	1414.1	1300.3	1251.2	1262.6	1301.1	1340.5
38°	2089.3	2048.2	1944.8	1772.0	1578.2	1390.4	1275.4	1230.1	1243.6	1283.3	1325.3
39°	2083.4	2040.9	1937.9	1761.1	1557.7	1366.2	1251.1	1207.6	1224.5	1266.1	1308.2
40°	2075.6	2032.9	1930.1	1748.2	1537.3	1340.2	1226.6	1184.2	1205.5	1250.2	1291.4
41°	2067.3	2022.8	1921.3	1735.1	1516.6	1313.8	1202.0	1160.8	1184.5	1234.8	1274.3
42°	2063.0	2015.4	1913.4	1721.3	1495.1	1286.0	1174.1	1136.8	1162.1	1217.9	1257.8
43°	2053.6	2006.9	1902.3	1708.4	1473.0	1257.4	1146.5	1113.5	1140.0	1199.0	1241.5
44°	2041.5	1996.8	1889.8	1695.9	1451.0	1228.2	1117.9	1089.6	1117.5	1178.5	1224.6



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	2028.7	1983.4	1878.3	1682.6	1429.3	1197.8	1089.5	1064.2	1095.1	1158.3	1206.0
46°	2020.7	1971.0	1866.4	1669.1	1406.6	1168.0	1060.4	1038.5	1072.9	1137.5	1185.8
47°	2004.3	1959.2	1852.4	1654.3	1382.9	1137.3	1030.7	1012.1	1050.9	1116.3	1163.3
48°	1978.9	1943.1	1835.5	1638.5	1359.8	1105.3	1001.8	987.4	1028.5	1094.6	1134.8
49°	1954.5	1917.8	1820.3	1621.9	1337.3	1073.5	972.9	962.6	1005.9	1071.6	1098.4
50°	1934.0	1893.8	1802.3	1605.2	1314.4	1040.6	943.2	936.6	983.2	1047.5	1050.1
51°	1914.4	1872.9	1778.9	1587.8	1291.6	1008.9	914.0	910.1	960.6	1022.0	986.9
52°	1892.6	1852.8	1754.1	1569.1	1267.5	977.9	883.7	883.6	938.1	993.8	907.3
53°	1869.1	1831.5	1729.2	1550.5	1243.1	946.1	852.4	856.5	913.9	962.0	819.5
54°	1846.5	1807.6	1706.6	1529.4	1217.6	915.5	821.8	830.8	888.3	923.2	725.6
55°	1830.8	1786.5	1683.0	1504.2	1188.0	885.6	790.6	804.6	862.3	872.1	632.0
56°	1818.0	1769.7	1657.5	1477.1	1157.8	853.5	759.8	777.5	835.1	807.8	535.3
57°	1803.0	1756.1	1631.1	1448.7	1128.2	820.8	724.7	750.3	806.9	730.4	437.1
58°	1789.4	1742.4	1609.0	1421.8	1099.0	787.2	690.5	721.8	776.4	646.5	344.9
59°	1779.7	1730.2	1591.4	1392.2	1069.2	754.1	657.6	693.1	745.7	561.5	264.7
60°	1777.7	1722.9	1577.5	1359.6	1037.8	719.0	625.9	663.3	710.9	472.5	207.7
61°	1782.5	1721.0	1566.9	1328.1	1003.8	683.4	593.8	632.7	672.7	383.7	177.0
62°	1782.6	1723.0	1555.7	1297.6	968.1	648.9	563.6	601.1	627.1	300.0	166.3
63°	1770.3	1719.0	1552.4	1269.2	932.2	612.8	534.6	569.2	572.4	224.5	159.3
64°	1743.6	1702.0	1556.7	1243.8	897.5	575.6	507.5	536.7	504.8	172.8	153.2
65°	1700.0	1666.1	1568.0	1221.8	859.9	537.9	480.3	503.7	436.4	153.4	146.8
66°	1627.3	1609.2	1564.6	1203.8	816.1	500.2	452.6	470.6	363.4	144.1	140.4
67°	1533.9	1526.4	1541.0	1192.7	769.8	461.7	423.9	439.1	290.5	134.3	133.9
68°	1418.4	1422.2	1488.2	1196.4	721.6	423.9	394.0	408.4	231.8	126.1	127.5
69°	1261.7	1291.6	1386.8	1218.1	675.4	389.2	363.4	377.3	184.8	119.2	121.7
70°	1103.8	1142.9	1255.5	1245.5	629.7	356.8	330.8	344.8	139.5	112.5	116.0
71°	1006.6	1021.1	1093.2	1239.4	591.5	323.7	297.7	311.9	113.3	105.8	109.6
72°	946.5	944.0	932.7	1149.3	557.4	292.1	264.4	275.3	104.5	99.9	101.9
73°	891.1	894.6	818.9	983.3	521.5	260.5	232.2	238.3	97.7	94.4	93.3
74°	834.7	848.4	756.2	795.5	517.0	232.4	202.4	198.6	90.2	88.7	84.6
75°	782.3	796.9	703.8	678.6	580.2	204.3	175.4	160.5	82.5	81.3	76.1
76°	737.7	740.6	656.6	626.3	624.9	178.6	152.0	122.0	75.6	73.2	67.5
77°	700.6	679.0	612.4	583.7	524.3	155.8	128.7	91.4	69.1	65.3	59.8
78°	669.5	622.4	564.6	539.1	369.4	132.8	105.9	77.3	63.1	57.7	54.4
79°	648.8	581.5	516.1	489.2	274.9	115.7	87.6	68.3	57.1	50.2	50.1
80°	621.1	543.7	469.5	420.3	237.4	100.8	71.0	60.0	50.5	41.0	45.3
81°	551.1	506.4	433.3	346.7	242.1	85.8	55.4	51.5	43.4	33.2	39.7
82°	480.8	469.4	398.9	295.1	215.4	72.0	41.6	43.2	36.3	27.8	33.6
83°	410.5	426.1	360.9	256.2	148.2	59.9	31.5	35.6	29.2	23.6	27.3
84°	339.2	380.0	309.9	222.9	99.8	48.6	23.6	28.4	22.3	18.8	20.5
85°	270.1	331.1	244.0	193.1	77.8	37.6	18.0	21.7	16.5	13.5	13.6
86°	189.5	266.6	187.2	156.2	62.0	27.5	12.4	15.5	11.3	8.3	7.0
87°	131.5	194.4	137.8	96.7	45.3	18.1	6.8	9.2	6.3	3.9	2.8
88°	71.5	115.7	90.7	43.1	29.2	9.5	3.1	3.8	2.3	1.4	1.1
89°	36.3	51.3	48.7	27.9	17.8	4.5	0.9	0.7	0.4	0.3	0.2



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449916
 CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449916
CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449916

CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9
1°	1793.7	1794.1	1794.5	1795.8	1798.2	1801.3	1805.1	1809.2	1812.5	1815.6	1817.9
2°	1779.8	1780.1	1781.4	1783.8	1788.3	1794.4	1801.4	1808.7	1815.4	1820.7	1827.6
3°	1765.0	1763.4	1765.7	1770.5	1777.7	1786.8	1796.2	1807.0	1816.5	1827.3	1837.5
4°	1748.0	1746.6	1749.2	1755.5	1765.3	1777.3	1789.9	1804.0	1817.8	1833.0	1845.8
5°	1729.8	1727.4	1731.6	1739.7	1752.8	1767.8	1783.5	1801.0	1819.5	1838.3	1853.4
6°	1713.4	1712.0	1714.9	1723.1	1737.9	1756.9	1776.6	1796.7	1819.2	1842.3	1860.6
7°	1698.2	1696.3	1699.8	1707.5	1723.0	1745.1	1769.3	1793.5	1818.5	1845.3	1868.0
8°	1684.6	1682.4	1686.0	1692.5	1708.2	1733.1	1761.0	1788.9	1817.5	1848.1	1875.9
9°	1673.2	1670.7	1674.2	1679.5	1693.9	1720.4	1751.3	1782.0	1815.3	1850.5	1883.6
10°	1662.5	1660.5	1663.4	1667.6	1680.4	1707.3	1741.4	1775.7	1812.7	1852.8	1891.1
11°	1652.2	1651.2	1652.9	1656.6	1667.3	1693.8	1730.2	1768.0	1809.4	1855.1	1898.6
12°	1641.8	1640.8	1641.7	1645.3	1654.0	1679.6	1718.4	1759.1	1805.5	1857.6	1906.0
13°	1631.2	1630.2	1631.3	1633.9	1640.6	1664.9	1706.4	1750.1	1801.7	1860.2	1912.4
14°	1621.2	1619.6	1621.6	1622.4	1628.2	1650.5	1693.6	1741.0	1798.8	1861.3	1917.0
15°	1610.2	1608.6	1609.9	1610.3	1615.2	1635.5	1680.0	1730.6	1794.1	1860.8	1919.0
16°	1599.8	1600.2	1598.3	1598.7	1602.7	1620.0	1666.1	1720.3	1788.8	1859.1	1920.0
17°	1589.9	1589.5	1587.9	1587.4	1590.0	1604.5	1651.7	1709.5	1782.4	1855.6	1918.9
18°	1581.0	1581.9	1578.8	1575.4	1576.2	1589.0	1636.0	1697.4	1773.5	1850.1	1916.3
19°	1570.6	1571.2	1568.5	1564.0	1563.3	1573.8	1620.9	1683.7	1763.3	1843.8	1913.9
20°	1560.0	1560.5	1558.4	1552.3	1550.1	1558.0	1604.9	1671.9	1753.0	1836.8	1911.5
21°	1549.8	1551.3	1547.8	1540.1	1536.6	1542.6	1588.3	1658.6	1741.2	1828.9	1909.0
22°	1541.4	1543.6	1537.8	1528.1	1522.7	1526.3	1571.5	1642.9	1728.0	1820.7	1906.9
23°	1533.5	1535.6	1528.1	1516.2	1507.9	1509.4	1554.0	1626.4	1714.5	1812.6	1905.8
24°	1524.3	1526.2	1518.7	1504.6	1493.5	1492.9	1535.6	1609.2	1701.0	1804.7	1904.6
25°	1513.2	1515.5	1508.6	1492.9	1479.1	1476.6	1517.5	1591.6	1686.3	1796.4	1901.0
26°	1502.1	1502.6	1496.9	1482.4	1463.8	1459.4	1498.9	1571.9	1670.8	1787.3	1896.9
27°	1489.5	1491.3	1483.8	1469.8	1449.0	1441.5	1478.4	1551.8	1654.6	1777.5	1892.3
28°	1478.0	1480.4	1471.5	1456.8	1434.2	1423.4	1458.6	1531.7	1638.0	1767.4	1888.2
29°	1467.0	1470.1	1459.8	1443.0	1419.5	1405.3	1437.6	1511.4	1620.5	1757.1	1883.6
30°	1456.2	1459.2	1448.4	1428.6	1404.6	1386.0	1415.7	1490.3	1602.2	1745.5	1878.2
31°	1443.6	1447.1	1436.7	1414.7	1389.2	1366.6	1394.7	1469.3	1584.0	1733.0	1871.4
32°	1430.9	1434.7	1424.4	1400.5	1372.1	1347.0	1372.4	1446.2	1565.3	1720.5	1866.0
33°	1418.1	1422.6	1412.1	1386.6	1354.7	1326.8	1349.5	1423.2	1545.3	1707.5	1860.3
34°	1405.7	1409.6	1398.7	1372.2	1337.1	1306.7	1326.6	1400.4	1525.3	1693.4	1853.9
35°	1393.4	1396.7	1385.1	1356.8	1318.7	1287.3	1303.3	1376.7	1504.9	1678.4	1847.7
36°	1378.9	1383.1	1370.6	1342.1	1300.7	1268.0	1280.7	1352.0	1483.4	1663.1	1841.4
37°	1364.1	1368.6	1356.0	1326.8	1283.2	1248.8	1258.2	1327.2	1461.4	1646.7	1834.9
38°	1348.4	1353.4	1340.7	1309.9	1266.1	1229.3	1236.6	1302.4	1438.7	1629.9	1827.1
39°	1332.7	1337.6	1323.7	1292.7	1249.3	1208.3	1213.5	1274.2	1415.1	1613.8	1817.8
40°	1315.9	1320.8	1308.1	1275.4	1232.2	1186.5	1188.4	1247.9	1390.5	1596.1	1807.7
41°	1299.4	1303.2	1290.6	1259.3	1213.9	1164.8	1162.7	1219.5	1364.6	1577.4	1796.0
42°	1282.4	1286.4	1273.7	1243.7	1195.3	1143.3	1137.0	1191.4	1338.1	1559.5	1784.6
43°	1264.8	1267.2	1256.5	1227.7	1176.7	1121.0	1112.0	1161.6	1311.0	1540.9	1773.4
44°	1247.8	1243.4	1239.4	1209.1	1157.7	1097.9	1086.6	1131.2	1281.9	1521.5	1762.1



REPORT NUMBER: P1449916

CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1230.3	1217.5	1221.9	1189.5	1137.6	1075.0	1061.5	1100.9	1251.6	1501.1	1749.0
46°	1198.9	1186.2	1195.8	1170.0	1116.9	1051.9	1035.9	1070.7	1222.8	1480.5	1734.3
47°	1155.4	1135.5	1161.2	1148.9	1095.6	1028.0	1010.1	1038.3	1191.9	1460.7	1719.4
48°	1097.7	1065.8	1113.9	1125.3	1074.7	1003.9	983.8	1008.2	1161.4	1441.6	1703.8
49°	1023.2	980.8	1049.0	1098.6	1052.6	981.0	956.4	977.6	1131.0	1422.5	1688.3
50°	933.2	886.5	969.3	1066.2	1029.0	957.9	928.2	947.7	1100.6	1403.4	1670.8
51°	838.5	790.0	879.5	1021.6	1004.6	934.5	900.8	917.3	1070.9	1382.5	1651.5
52°	742.1	691.2	784.3	961.5	979.1	910.5	872.8	885.4	1041.4	1359.4	1631.2
53°	643.1	588.2	688.7	891.0	952.0	886.5	844.3	853.4	1010.3	1333.5	1609.0
54°	539.8	485.6	589.0	804.5	922.9	861.3	816.4	819.1	979.9	1307.9	1583.1
55°	440.3	387.1	487.3	714.9	891.0	835.8	787.6	785.0	948.9	1284.3	1556.4
56°	345.7	299.7	390.5	624.0	852.4	809.5	758.6	752.0	916.5	1260.3	1530.5
57°	262.8	233.9	298.6	528.2	802.9	780.9	728.9	717.9	883.5	1234.5	1503.4
58°	213.6	198.0	234.4	432.0	740.2	750.6	698.2	684.8	850.0	1206.1	1474.9
59°	188.9	184.6	196.7	340.8	665.2	719.8	667.9	653.3	817.4	1175.2	1445.8
60°	179.1	178.8	179.7	259.7	584.8	687.9	636.6	622.1	781.4	1142.2	1416.8
61°	174.0	173.9	172.9	199.1	502.8	656.1	605.7	592.0	743.9	1108.5	1391.8
62°	168.8	168.7	167.4	168.4	417.5	622.3	575.1	561.8	705.9	1075.1	1370.4
63°	163.3	163.3	161.8	156.4	333.4	588.3	543.9	531.7	665.6	1038.3	1351.9
64°	157.8	158.0	156.3	150.4	254.9	549.8	512.0	501.9	624.8	995.7	1336.6
65°	152.4	153.0	150.3	142.9	192.2	507.4	479.8	471.2	585.2	951.9	1323.4
66°	147.1	148.1	144.5	136.2	159.6	453.4	447.5	440.3	548.5	909.9	1317.8
67°	141.9	142.6	138.7	129.3	140.5	393.5	416.0	407.8	510.8	869.2	1327.9
68°	136.6	137.1	133.1	122.7	129.1	329.6	385.5	374.8	469.8	829.5	1349.3
69°	130.8	131.2	127.5	116.4	122.3	266.4	355.1	340.9	430.9	795.0	1355.7
70°	123.0	122.5	120.8	110.3	114.8	212.1	324.3	307.7	398.0	762.7	1326.4
71°	114.0	113.6	112.4	105.0	107.3	169.0	295.2	274.6	365.9	738.6	1234.6
72°	105.0	104.4	103.6	98.6	100.4	126.1	266.3	242.0	335.4	735.5	1070.9
73°	95.8	95.3	94.6	90.9	93.4	101.7	239.6	211.4	304.0	784.8	892.1
74°	86.8	86.8	85.9	82.7	87.3	93.7	211.0	183.8	274.4	840.2	763.1
75°	78.9	80.0	77.5	74.4	81.5	85.8	181.4	157.8	241.7	778.7	690.7
76°	73.3	75.5	70.8	66.5	75.0	78.7	152.4	134.5	209.9	644.3	635.6
77°	69.4	72.1	66.3	58.6	67.3	71.6	123.4	113.2	184.6	524.6	585.0
78°	65.2	67.3	62.2	51.1	59.5	64.8	96.8	93.5	170.2	405.8	537.7
79°	58.6	59.6	57.0	45.5	51.7	58.3	76.9	76.9	153.8	341.1	482.9
80°	52.1	53.4	50.3	41.3	44.3	51.9	65.1	62.2	139.7	336.9	414.9
81°	45.4	46.3	43.6	36.7	36.0	45.5	55.4	51.3	132.4	299.8	354.4
82°	37.6	37.7	36.7	31.5	28.1	38.5	46.3	40.4	123.7	216.7	308.5
83°	28.2	27.0	28.4	25.5	22.4	31.1	37.5	29.5	104.0	155.3	273.4
84°	20.1	19.4	20.4	19.2	17.6	24.3	28.9	21.7	75.2	125.0	241.0
85°	12.7	12.2	12.9	12.9	12.7	18.1	21.4	15.5	53.5	103.7	201.2
86°	5.9	5.2	6.0	6.7	7.9	12.0	15.1	10.3	37.0	84.3	143.4
87°	2.4	2.0	2.4	2.6	3.8	6.5	8.7	5.9	21.5	66.7	88.8
88°	1.0	0.9	1.0	1.0	1.3	2.4	3.4	3.2	10.2	51.1	66.2
89°	0.1	0.0	0.1	0.2	0.2	0.3	0.6	0.6	4.6	36.7	48.2



REPORT NUMBER: P1449916
 CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449916
 CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449916
CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449916
 CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1807.9	1807.9	1807.9
1°	1820.0	1821.9	1823.1
2°	1832.3	1835.6	1837.7
3°	1844.6	1848.7	1851.6
4°	1855.4	1861.2	1862.1
5°	1865.6	1873.3	1875.5
6°	1875.9	1885.6	1888.5
7°	1886.2	1897.8	1904.0
8°	1897.8	1910.7	1916.2
9°	1909.5	1924.9	1929.6
10°	1920.8	1939.7	1945.6
11°	1932.6	1953.5	1960.0
12°	1943.3	1965.2	1970.4
13°	1951.5	1974.2	1982.1
14°	1957.3	1982.5	1989.9
15°	1961.1	1988.2	1998.6
16°	1964.7	1993.6	2005.2
17°	1967.7	1999.2	2011.5
18°	1970.1	2005.9	2018.7
19°	1972.3	2011.7	2025.1
20°	1975.3	2017.2	2030.6
21°	1978.0	2022.0	2037.4
22°	1980.8	2026.5	2042.7
23°	1983.0	2031.1	2046.6
24°	1984.8	2036.8	2053.4
25°	1985.2	2040.9	2058.4
26°	1986.7	2045.7	2064.5
27°	1986.7	2050.9	2071.4
28°	1988.3	2056.7	2077.4
29°	1990.3	2061.3	2082.8
30°	1990.8	2067.0	2090.7
31°	1991.8	2072.8	2096.6
32°	1993.5	2074.9	2100.3
33°	1995.0	2076.3	2102.4
34°	1994.8	2076.4	2101.1
35°	1992.5	2075.8	2099.6
36°	1989.0	2072.3	2098.1
37°	1985.7	2069.4	2093.0
38°	1980.5	2064.2	2089.3
39°	1974.2	2057.8	2083.4
40°	1967.5	2050.9	2075.6
41°	1958.1	2040.6	2067.3
42°	1948.4	2034.7	2063.0
43°	1938.1	2026.0	2053.6
44°	1927.4	2015.0	2041.5



REPORT NUMBER: P1449916
CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	1916.5	2002.7	2028.7
46°	1904.2	1989.9	2020.7
47°	1890.1	1977.7	2004.3
48°	1875.1	1957.4	1978.9
49°	1859.1	1930.2	1954.5
50°	1837.1	1909.2	1934.0
51°	1812.1	1888.5	1914.4
52°	1788.4	1867.9	1892.6
53°	1767.4	1845.4	1869.1
54°	1742.4	1822.0	1846.5
55°	1716.8	1802.7	1830.8
56°	1691.8	1789.0	1818.0
57°	1669.5	1777.2	1803.0
58°	1653.0	1762.3	1789.4
59°	1639.9	1751.1	1779.7
60°	1627.5	1745.3	1777.7
61°	1616.6	1745.7	1782.5
62°	1611.3	1746.3	1782.6
63°	1614.7	1738.5	1770.3
64°	1622.7	1716.5	1743.6
65°	1618.6	1676.3	1700.0
66°	1593.8	1613.4	1627.3
67°	1544.3	1525.7	1533.9
68°	1457.7	1413.4	1418.4
69°	1334.9	1274.1	1261.7
70°	1186.7	1127.9	1103.8
71°	1029.2	1017.8	1006.6
72°	901.6	946.6	946.5
73°	823.3	893.4	891.1
74°	777.6	841.3	834.7
75°	736.7	785.6	782.3
76°	697.2	729.3	737.7
77°	654.0	675.7	700.6
78°	604.4	630.2	669.5
79°	556.8	600.7	648.8
80°	509.6	574.2	621.1
81°	463.3	543.2	551.1
82°	418.2	496.4	480.8
83°	364.1	437.4	410.5
84°	300.9	378.2	339.2
85°	242.1	314.8	270.1
86°	199.2	240.1	189.5
87°	149.1	166.7	131.5
88°	97.4	96.4	71.5
89°	55.7	46.1	36.3



REPORT NUMBER: P1449916
CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



REPORT NUMBER: P1449916
CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0

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

Scaled Data Report



REPORT NUMBER: P1449916
CATALOG NUMBER: TWC60_T4_36W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-3

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-5000K

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

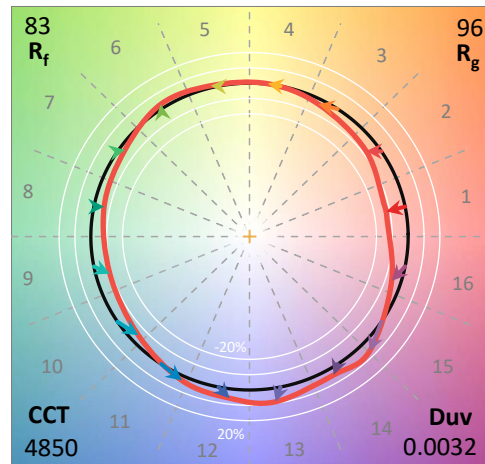
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2601-659-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 02/16/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Lumark
 Catalog Number: **MWP2460W34VDDKYYAD-T4-24W-5000K**
 Description: Mester Wedge, at T4 beam setting, 24W output, 5000K

Spectral Parameters

CCT (K): 4850
 CIE u': 0.2108
 CIE v': 0.4905
 Duv: 0.0032
 CIE x: 0.3503
 CIE y: 0.3623
 CIE z: 0.2875
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 571
 Purity: 13.81051
 Rf: 83.1
 Rg: 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

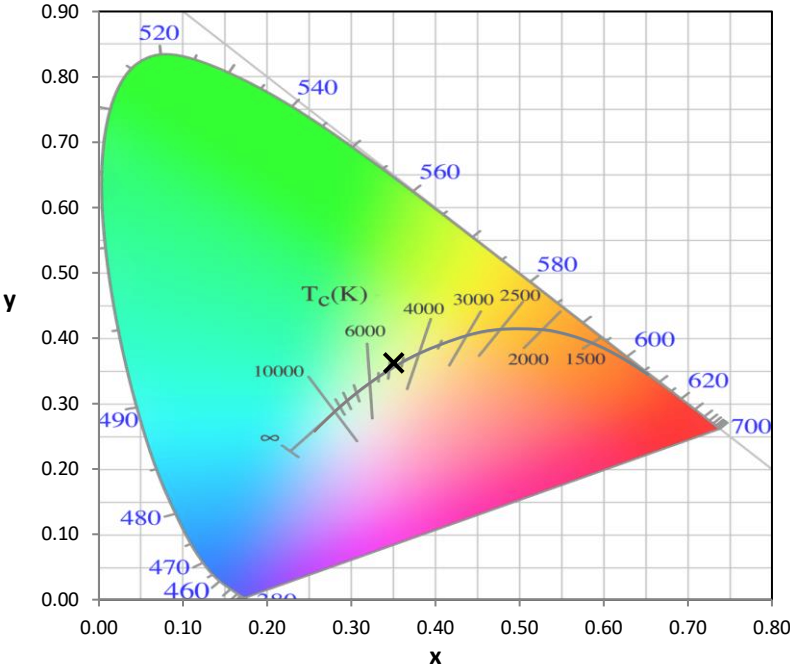
Stabilization Time: 25M
 Operation Time: 1H 25M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

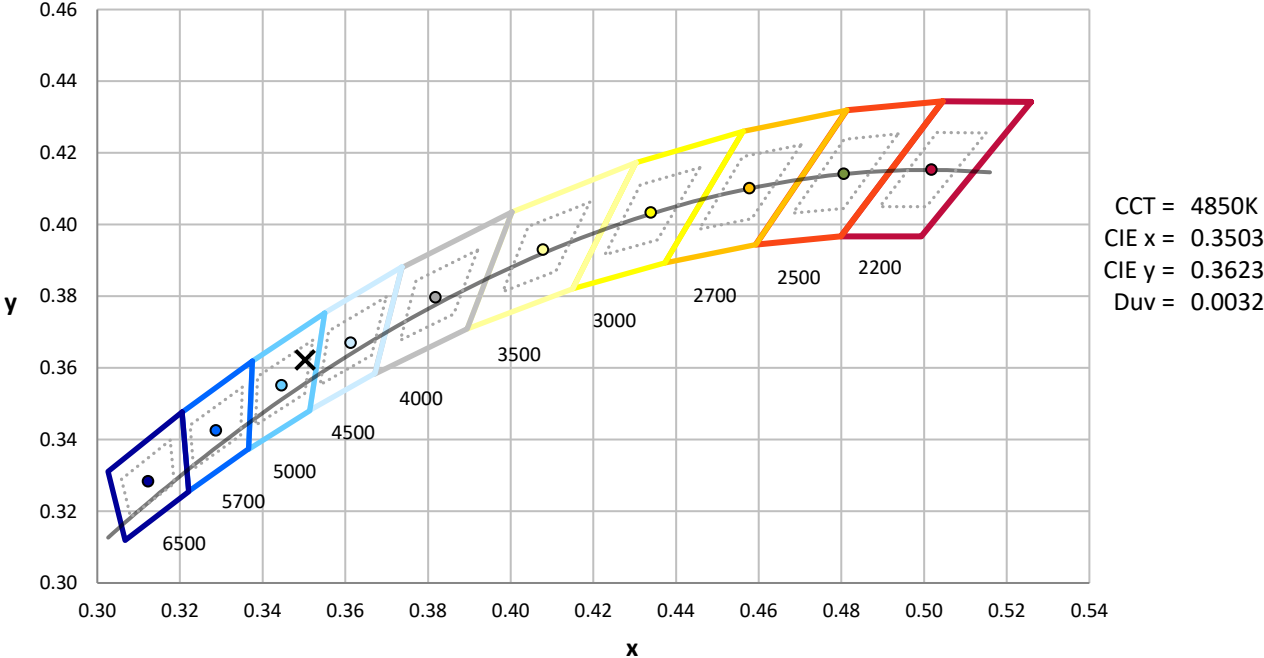
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



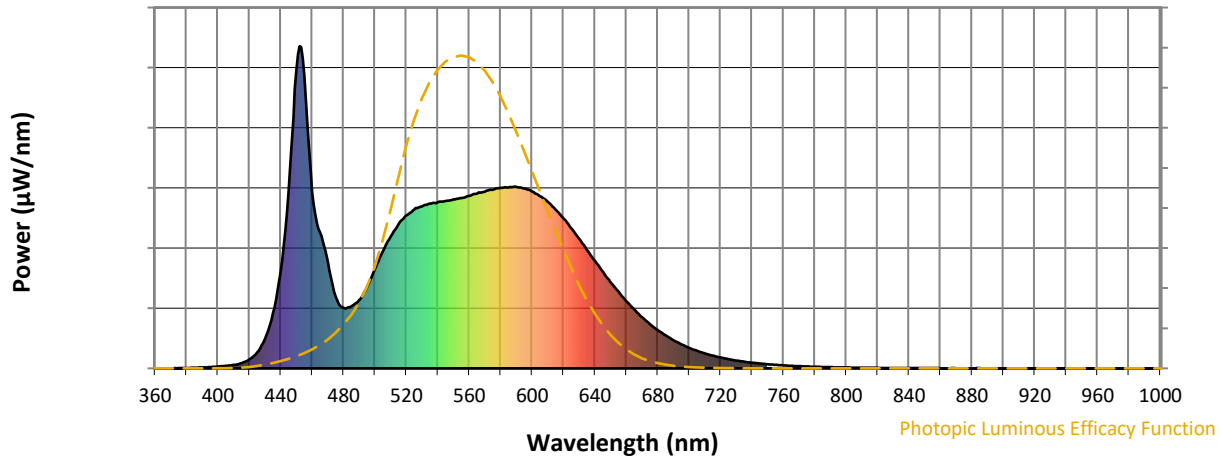
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

Photopic Flux vs. Wavelength

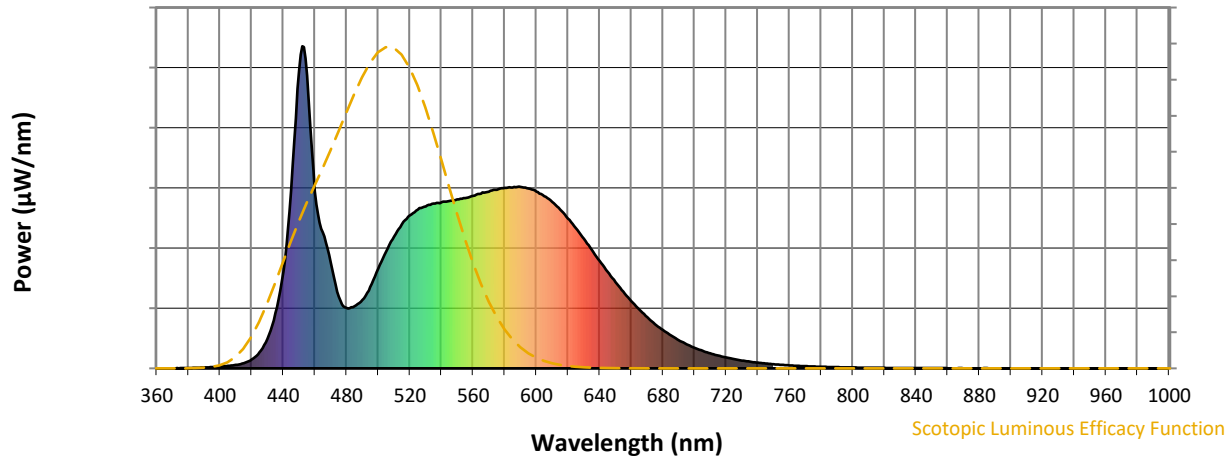


Photopic Lumens: NR

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



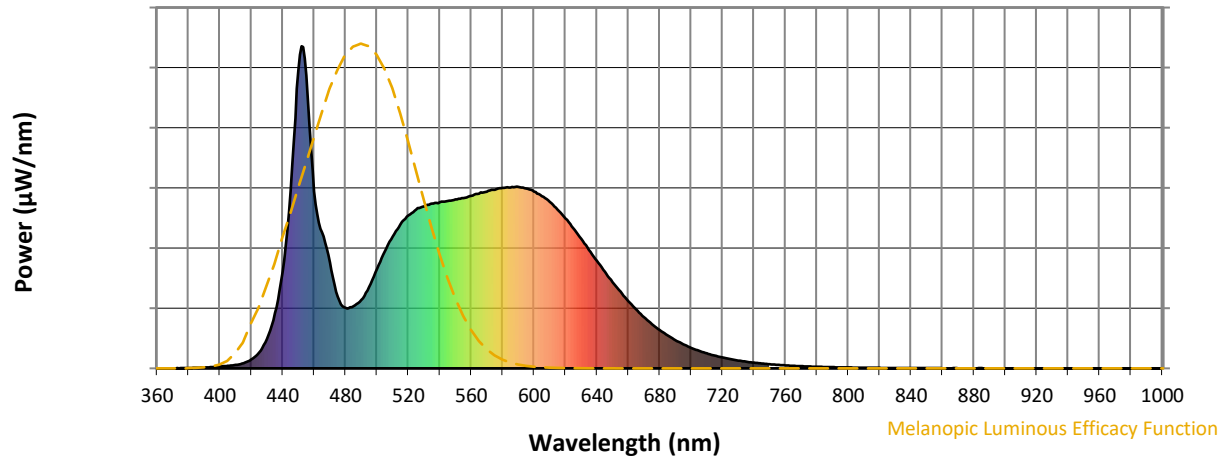
Scotopic Lumens: NR

S/P: 1.9

λ (nm)	Power 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

Melanopic Flux vs. Wavelength



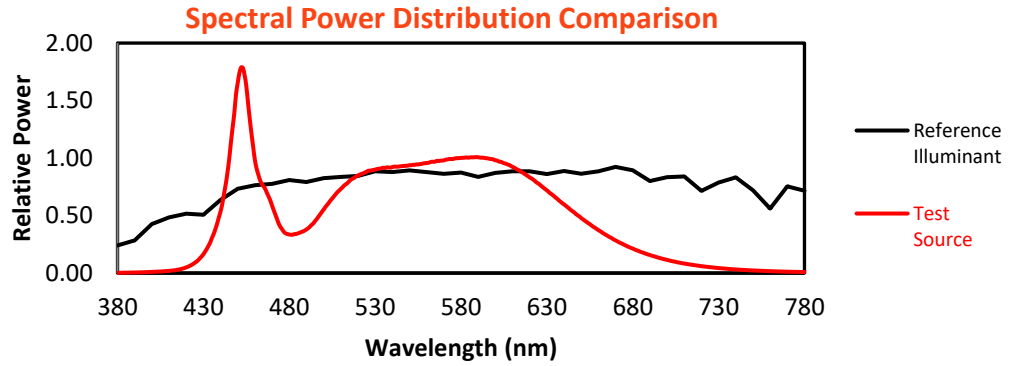
Melanopic Lumens: NR

M/P: 4

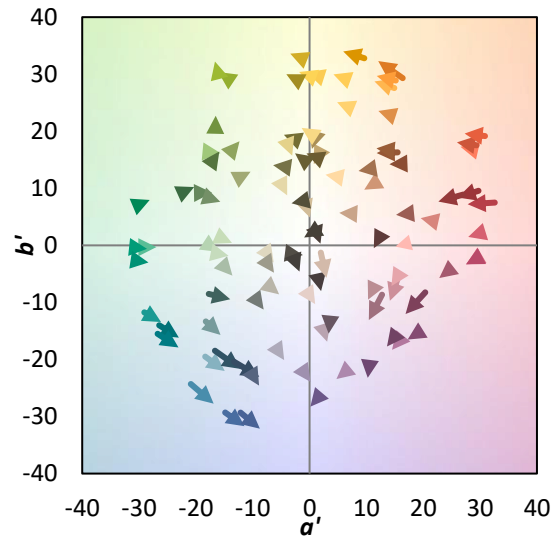
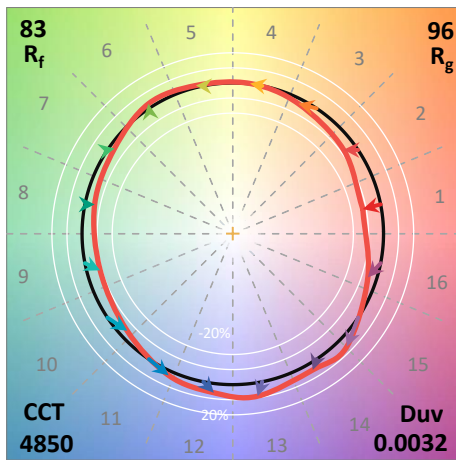
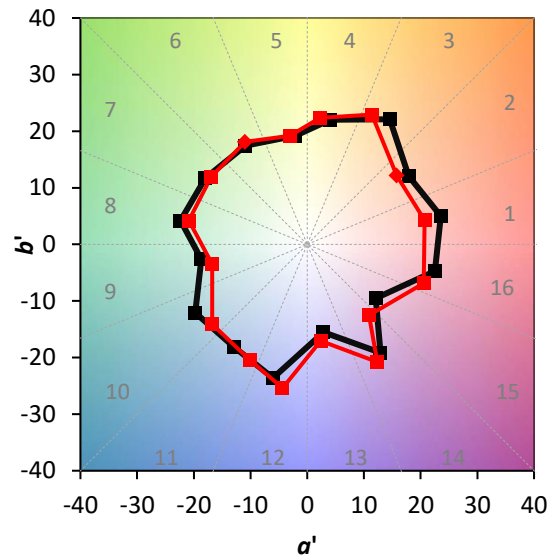
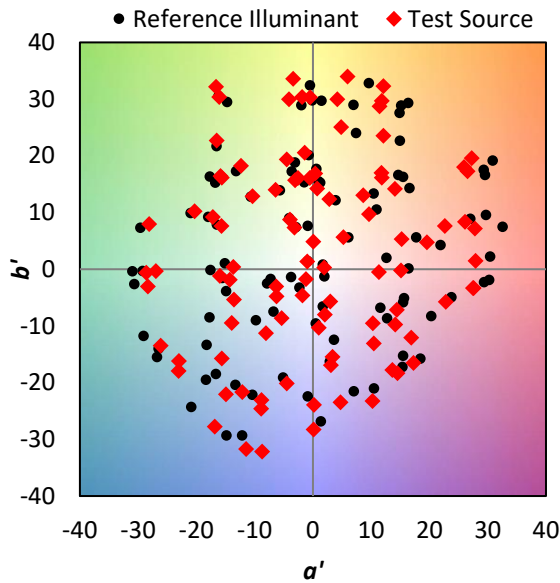
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309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

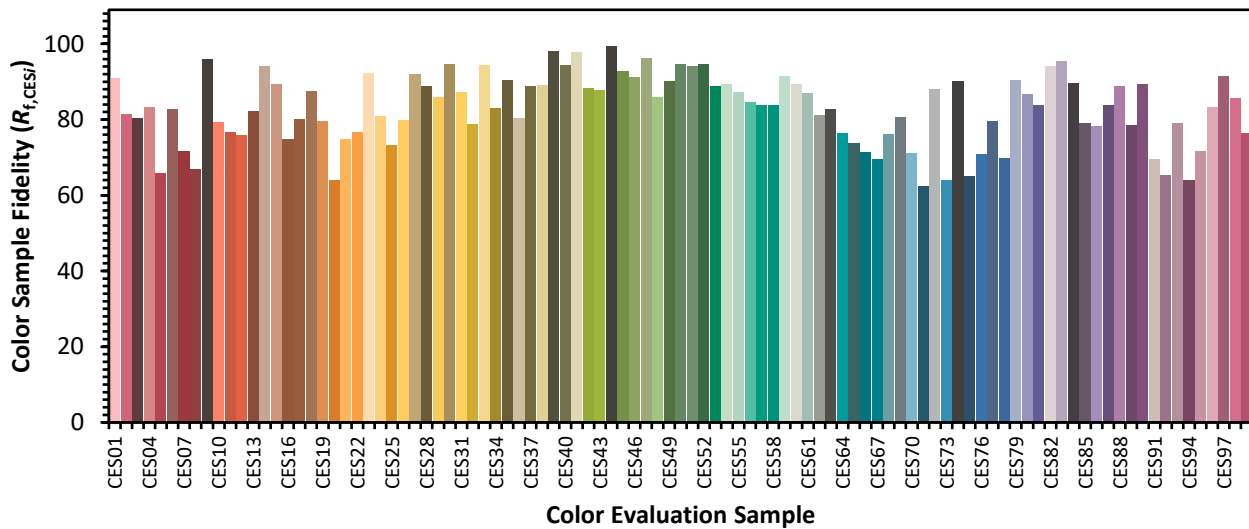


Color Vector Graphics

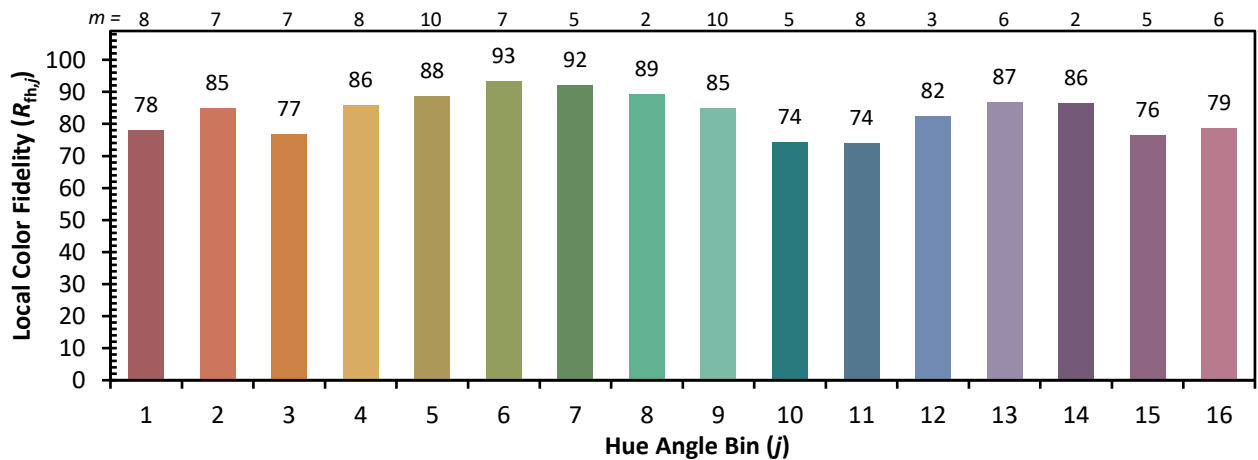
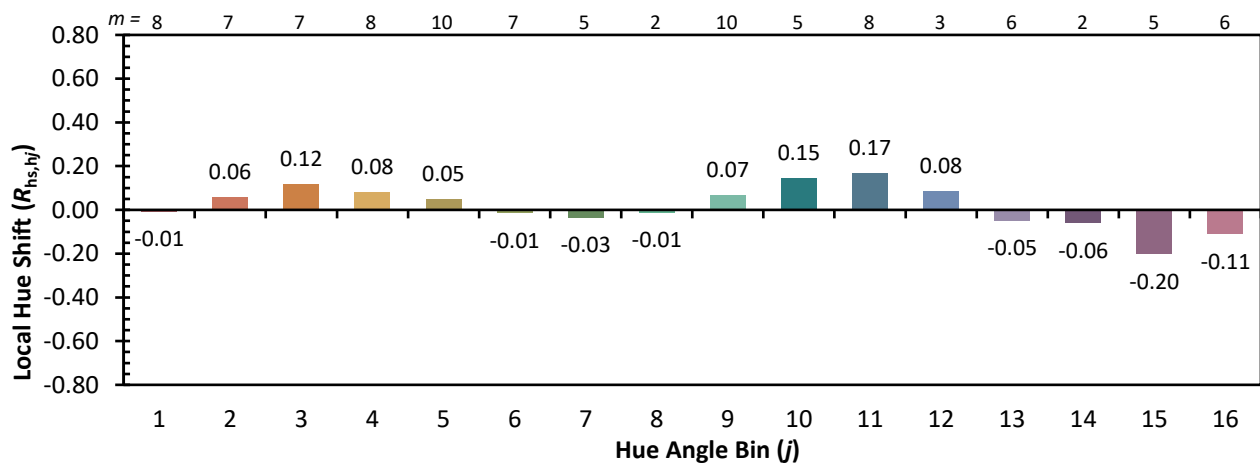
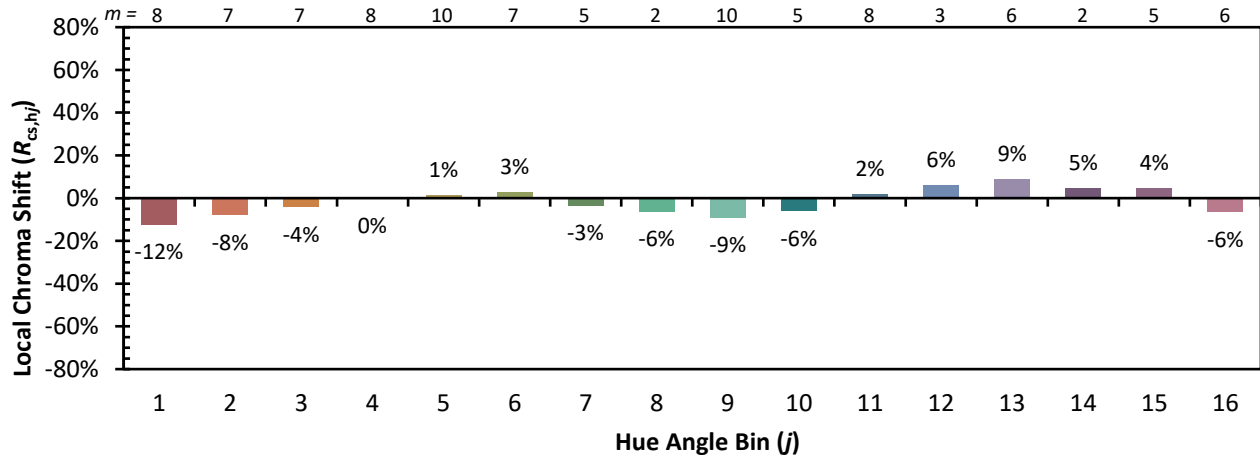


Individual Sample Fidelity Index ($R_{f,i}$)

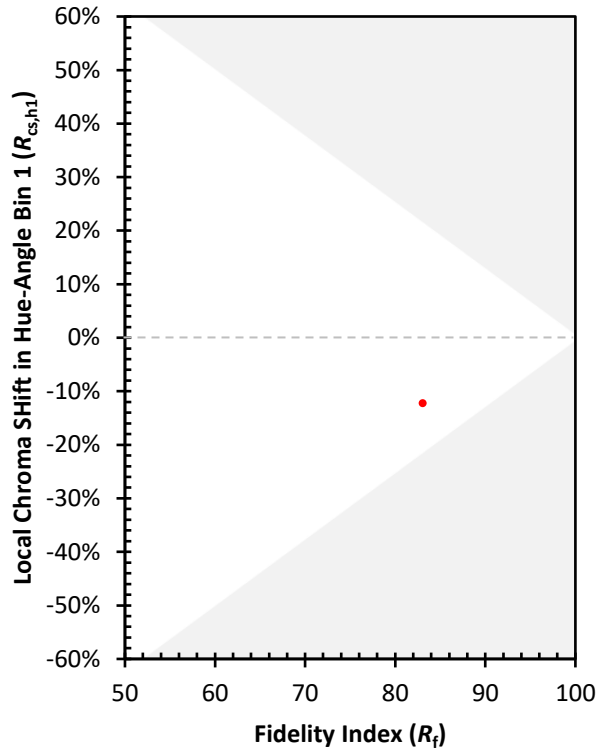
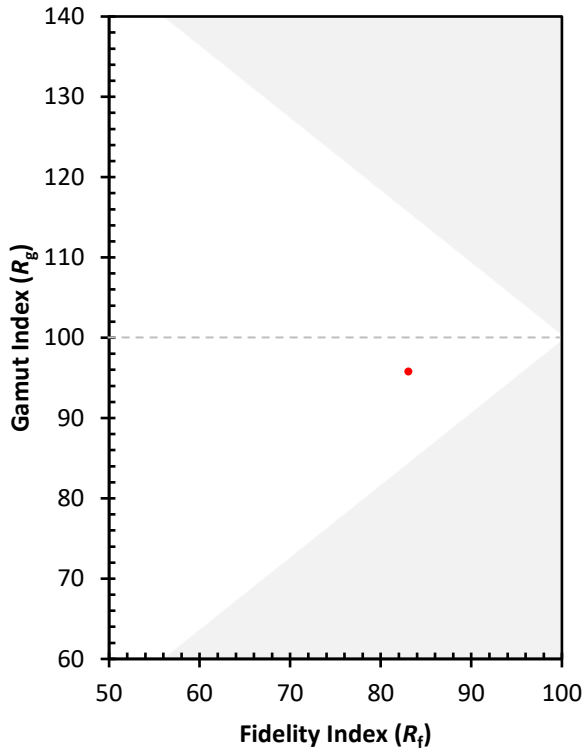
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82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