

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: P1449902

Luminaire Tested: **TWC60_T3_36W_3000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449902
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_T3_36W_3000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 36W
3000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5754 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.42' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

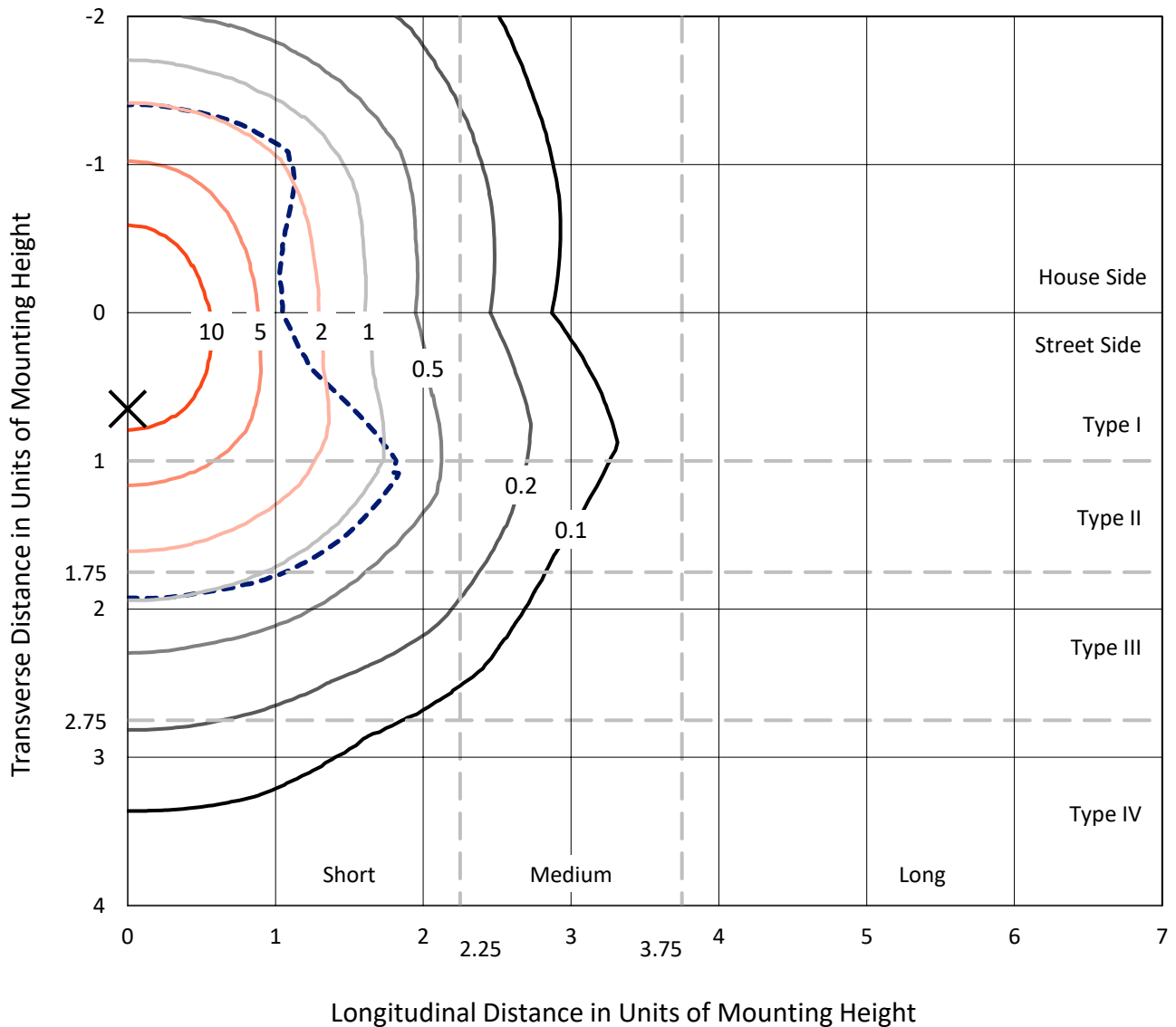
Input Watts (W): 34.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

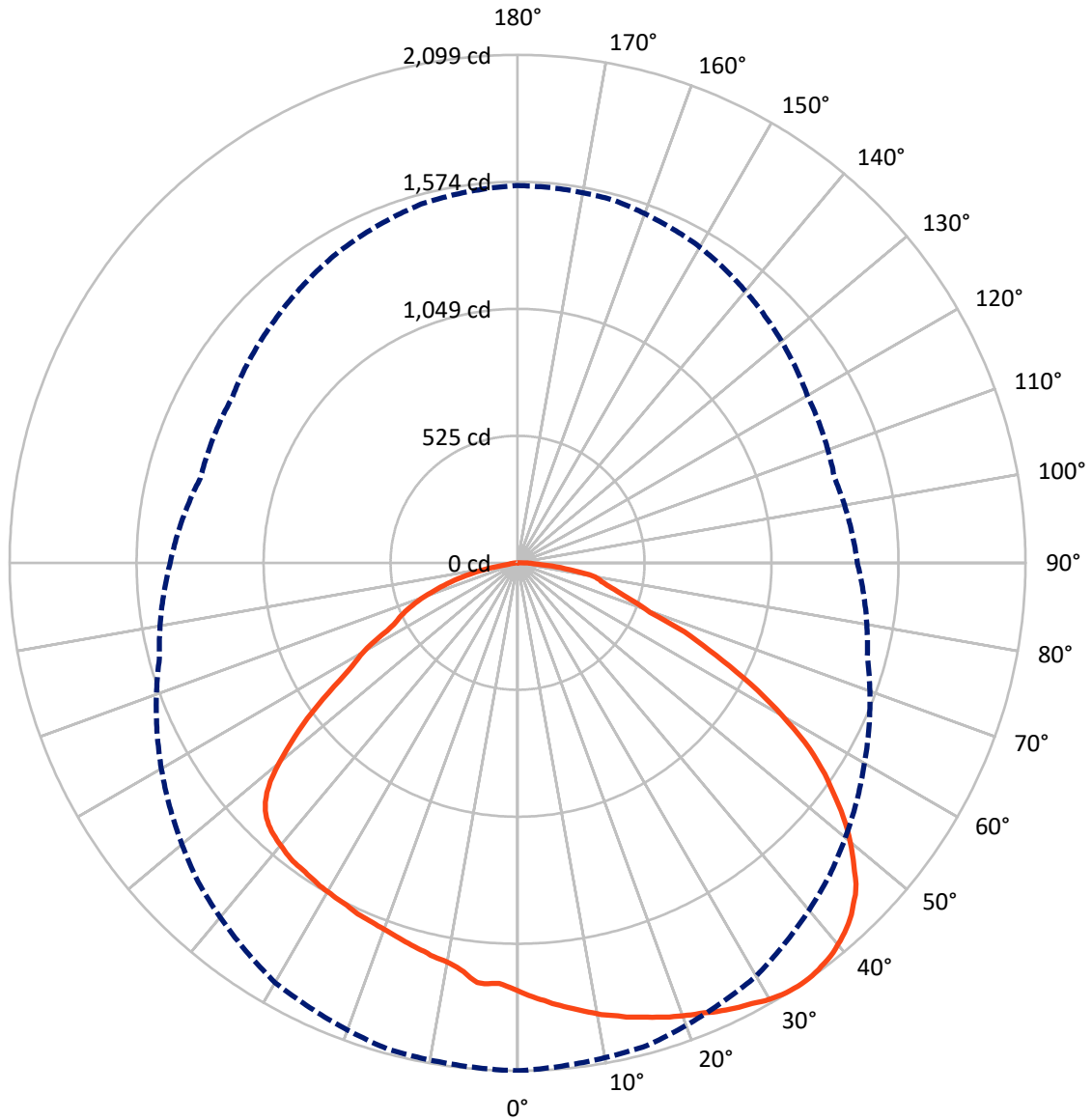
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type III - 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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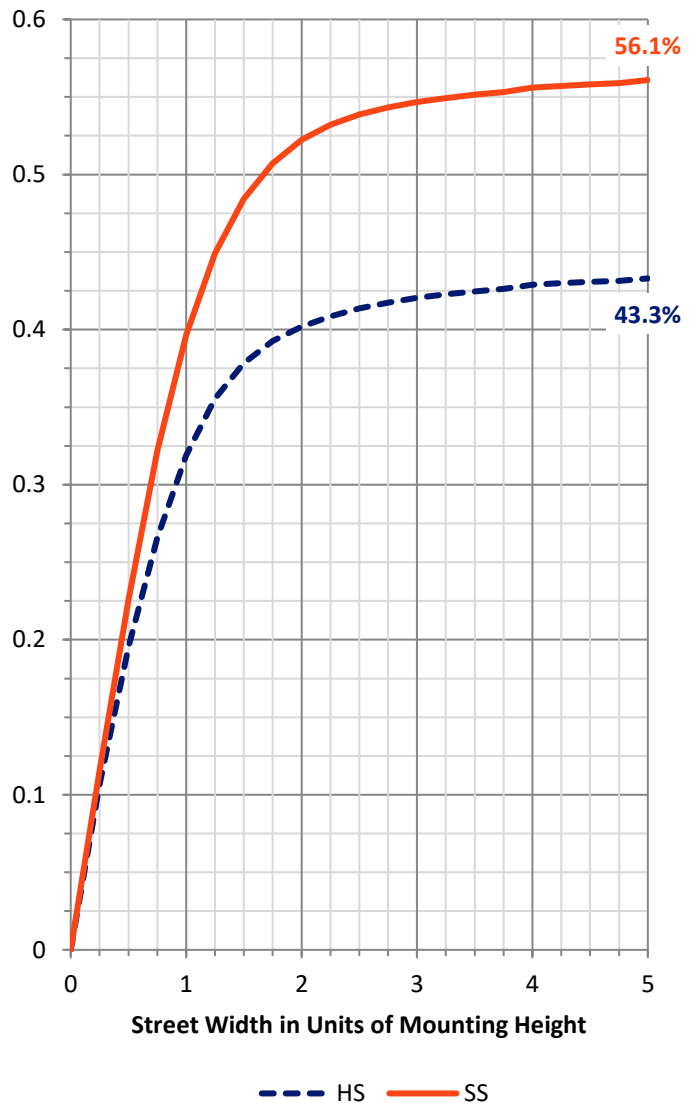
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2506.1	0.0	2506.1
	% Fixture	43.6	0.0	43.6
Street Side	Lumens	3247.9	0.0	3247.9
	% Fixture	56.4	0.0	56.4
Total	Lumens	5754.0	0.0	5754.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	2.9
10°-20°	495.3	8.6
20°-30°	782.9	13.6
30°-40°	1005.9	17.5
40°-50°	1123.2	19.5
50°-60°	1040.3	18.1
60°-70°	718.7	12.5
70°-80°	340.5	5.9
80°-90°	77.9	1.4
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°	5754.0	100.0
0°-180°	5754.0	100.0

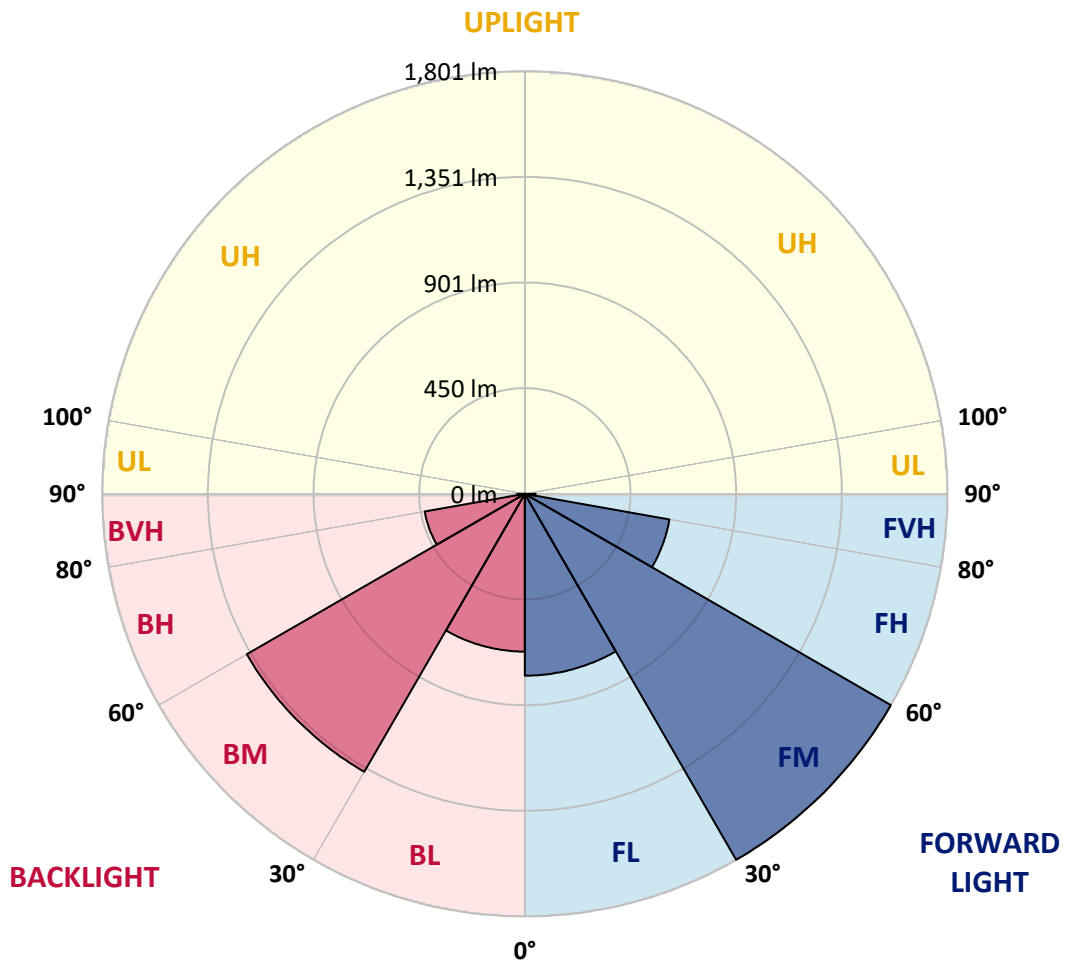


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.0	13.5			
FM (30°-60°)	1801.2	31.3			
FH (60°-80°)	625.8	10.9			G0/660
FVH (80°-90°)	45.8	0.8			G1/100
BL (0°-30°)	672.5	11.7	B2/1000		
BM (30°-60°)	1368.2	23.8	B2/2500		
BH (60°-80°)	433.3	7.5	B1/500		G1/500
BVH (80°-90°)	32.1	0.6			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4
1°	1787.9	1788.1	1785.3	1783.2	1782.0	1778.3	1771.8	1769.5	1766.9	1765.9	1761.0
2°	1800.8	1800.2	1797.1	1790.7	1787.2	1780.2	1771.6	1764.1	1757.8	1754.0	1752.2
3°	1811.8	1813.6	1806.6	1800.7	1791.2	1782.8	1769.2	1758.8	1751.5	1744.1	1741.9
4°	1826.2	1825.7	1817.5	1806.0	1797.0	1779.9	1765.8	1751.4	1743.6	1736.3	1739.4
5°	1837.3	1834.9	1827.8	1812.8	1797.4	1780.1	1761.8	1747.8	1737.4	1736.9	1741.8
6°	1849.7	1844.4	1835.7	1820.7	1802.8	1779.6	1754.6	1739.6	1731.8	1741.1	1744.2
7°	1860.6	1855.7	1844.6	1826.0	1803.9	1776.9	1749.8	1731.3	1731.1	1741.3	1735.6
8°	1873.9	1868.1	1852.0	1829.6	1805.6	1776.2	1744.3	1724.5	1730.7	1731.7	1717.0
9°	1885.6	1879.3	1861.8	1836.6	1805.2	1772.3	1737.6	1719.9	1730.7	1718.9	1695.7
10°	1898.0	1889.6	1870.5	1842.3	1806.3	1769.3	1730.4	1714.6	1723.2	1696.0	1683.0
11°	1907.6	1900.2	1878.5	1847.3	1807.3	1766.4	1724.1	1710.5	1712.2	1680.0	1674.5
12°	1918.0	1909.0	1885.8	1849.2	1807.0	1759.6	1715.7	1706.9	1692.6	1667.4	1664.1
13°	1930.3	1919.9	1894.3	1854.4	1806.1	1755.6	1706.2	1701.0	1672.1	1656.2	1656.1
14°	1939.0	1928.5	1897.7	1857.5	1806.1	1750.9	1694.5	1695.4	1656.6	1647.3	1650.2
15°	1948.1	1937.3	1903.8	1859.4	1804.4	1743.9	1684.8	1683.6	1642.5	1636.4	1641.4
16°	1958.5	1943.7	1909.3	1860.9	1800.1	1738.8	1674.2	1673.3	1629.0	1627.6	1633.1
17°	1968.4	1951.8	1913.3	1861.1	1798.3	1729.1	1664.8	1653.9	1617.0	1618.0	1624.4
18°	1978.8	1959.5	1919.2	1858.5	1794.7	1722.9	1653.7	1633.6	1603.3	1607.0	1617.0
19°	1987.3	1968.4	1922.5	1859.9	1791.0	1713.3	1643.4	1613.8	1591.5	1596.8	1608.4
20°	1996.4	1976.5	1928.2	1860.7	1784.3	1703.7	1633.1	1594.9	1578.9	1587.9	1599.4
21°	2004.4	1984.7	1933.5	1859.9	1779.6	1692.8	1624.3	1577.9	1564.8	1575.5	1592.5
22°	2012.5	1989.9	1937.5	1859.6	1770.6	1681.5	1613.7	1562.1	1550.3	1565.1	1584.4
23°	2024.2	1998.7	1939.4	1857.0	1764.3	1671.7	1603.7	1544.8	1537.2	1554.7	1576.0
24°	2033.6	2006.8	1944.0	1855.8	1755.0	1657.6	1593.2	1527.7	1523.4	1543.0	1568.0
25°	2042.7	2013.9	1947.6	1854.2	1747.0	1641.6	1577.4	1510.7	1508.5	1532.0	1561.6
26°	2052.2	2020.8	1951.5	1850.8	1737.9	1626.9	1562.2	1494.2	1491.9	1520.7	1556.3
27°	2058.3	2028.8	1954.2	1847.7	1729.4	1612.0	1545.7	1475.6	1478.3	1509.7	1548.4
28°	2067.5	2035.7	1957.0	1843.6	1717.3	1594.5	1523.6	1456.1	1462.7	1500.6	1541.3
29°	2078.9	2042.3	1959.3	1840.2	1706.8	1576.3	1500.4	1437.6	1448.3	1490.3	1534.0
30°	2085.6	2048.6	1962.1	1835.1	1694.1	1557.4	1477.7	1416.9	1431.3	1477.2	1525.3
31°	2092.3	2055.7	1965.5	1831.4	1683.0	1539.1	1452.0	1396.4	1414.7	1467.7	1519.9
32°	2095.7	2060.9	1967.4	1827.9	1671.3	1517.2	1427.6	1377.0	1399.0	1456.5	1513.4
33°	2098.6	2065.2	1971.6	1823.7	1655.1	1496.0	1403.8	1355.4	1382.6	1444.3	1506.5
34°	2097.8	2065.7	1974.2	1817.1	1642.3	1475.2	1378.2	1332.2	1364.9	1432.4	1498.4
35°	2096.0	2062.3	1972.5	1813.2	1628.5	1452.7	1353.3	1311.7	1349.0	1419.8	1491.2
36°	2090.8	2062.1	1972.7	1808.6	1612.9	1428.2	1329.1	1290.8	1331.3	1410.0	1482.0
37°	2083.8	2054.2	1970.4	1803.9	1599.0	1404.2	1302.3	1268.0	1315.5	1395.5	1473.7
38°	2077.4	2049.4	1965.5	1799.0	1581.8	1381.3	1276.0	1244.8	1295.9	1382.7	1465.2
39°	2065.5	2038.1	1961.5	1794.2	1568.5	1357.3	1248.7	1221.0	1278.3	1367.4	1458.6
40°	2053.0	2025.0	1954.7	1787.4	1553.5	1332.3	1221.9	1198.2	1262.2	1354.1	1451.7
41°	2039.8	2013.3	1946.4	1780.8	1536.2	1309.1	1195.8	1177.5	1242.2	1343.3	1443.8
42°	2023.2	2001.2	1932.7	1774.0	1522.5	1282.4	1169.6	1156.9	1223.1	1332.4	1432.8
43°	2004.1	1982.6	1919.4	1765.8	1509.3	1256.7	1143.4	1135.5	1203.3	1320.2	1424.4
44°	1978.7	1961.5	1903.8	1758.5	1493.1	1231.1	1115.1	1111.8	1185.9	1304.1	1416.3



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	1956.7	1940.1	1888.6	1750.2	1478.3	1206.5	1085.6	1087.4	1168.5	1289.1	1407.0
46°	1927.8	1913.4	1869.9	1740.2	1464.7	1182.4	1056.2	1063.3	1151.1	1276.4	1396.6
47°	1888.9	1884.7	1847.8	1728.9	1450.2	1155.9	1025.3	1038.4	1132.8	1264.8	1381.5
48°	1852.3	1851.4	1824.1	1714.3	1436.8	1128.4	995.1	1012.7	1110.9	1250.4	1364.7
49°	1813.3	1811.4	1798.0	1697.5	1423.6	1100.9	965.1	986.0	1090.6	1234.7	1348.1
50°	1774.6	1774.7	1766.7	1679.8	1410.2	1071.9	934.2	957.5	1072.4	1218.4	1322.8
51°	1732.3	1733.4	1731.7	1662.1	1397.9	1042.8	903.7	928.9	1053.5	1201.8	1291.8
52°	1685.3	1690.9	1694.1	1640.9	1382.9	1012.8	871.5	902.3	1033.3	1185.2	1253.0
53°	1634.7	1642.0	1656.2	1619.0	1369.2	983.0	841.0	875.6	1011.6	1168.6	1202.8
54°	1586.2	1592.3	1610.4	1590.8	1355.9	952.8	808.6	848.3	987.7	1151.9	1152.7
55°	1540.5	1544.2	1562.8	1557.4	1335.8	923.0	777.2	820.5	964.4	1126.7	1102.5
56°	1486.2	1495.5	1514.2	1522.5	1317.7	893.1	744.9	792.5	941.4	1091.9	1047.0
57°	1430.8	1443.2	1461.1	1485.3	1298.4	863.8	711.0	764.8	917.9	1050.3	987.4
58°	1366.8	1386.7	1411.7	1443.0	1277.4	833.6	675.4	736.1	893.5	1000.4	921.9
59°	1297.7	1323.8	1356.8	1397.4	1254.8	802.9	643.2	706.8	867.3	948.6	861.6
60°	1228.1	1253.6	1303.6	1344.0	1227.6	772.4	608.4	675.4	839.9	895.6	803.2
61°	1158.8	1186.4	1242.8	1287.3	1196.5	744.3	575.8	643.2	812.7	838.1	753.0
62°	1086.2	1113.8	1174.2	1225.6	1164.4	715.5	545.4	613.0	781.3	782.1	720.1
63°	1010.2	1039.3	1107.3	1159.1	1130.1	687.6	513.6	582.6	744.9	725.8	686.4
64°	940.1	961.4	1043.4	1092.6	1092.1	661.5	483.0	551.1	702.9	672.0	638.5
65°	869.6	885.9	976.4	1020.7	1046.5	636.6	454.0	521.4	656.6	634.8	583.9
66°	810.1	814.4	905.2	945.5	994.5	614.0	424.3	490.2	608.1	607.6	542.3
67°	746.5	753.0	830.8	871.0	936.5	593.2	394.2	460.2	556.0	572.8	515.5
68°	665.1	682.0	752.9	808.5	868.5	573.9	364.5	430.8	503.6	529.7	494.6
69°	584.2	599.5	675.5	763.5	796.4	558.7	334.5	400.9	454.3	496.8	473.0
70°	546.4	557.4	585.0	717.1	713.5	543.5	304.2	372.2	414.0	473.5	452.0
71°	510.2	516.7	524.3	653.8	612.8	528.4	273.9	342.9	387.6	451.1	432.8
72°	473.9	476.0	463.9	555.9	522.7	511.6	244.9	311.7	358.7	427.2	412.9
73°	443.0	450.4	403.5	483.6	432.6	486.7	216.4	278.9	331.3	403.6	390.2
74°	414.9	422.3	377.5	412.2	342.5	447.8	189.6	245.2	312.2	380.9	365.6
75°	391.3	391.1	350.8	340.8	368.6	402.5	164.2	209.6	296.1	359.7	339.6
76°	370.5	357.9	326.8	307.2	338.6	360.4	142.4	176.6	278.2	336.2	310.0
77°	354.3	325.1	302.0	289.1	238.5	317.1	120.5	154.0	260.7	315.2	276.5
78°	342.9	299.1	273.0	271.0	173.0	261.5	98.8	131.4	244.6	295.1	245.5
79°	327.5	280.7	247.3	235.2	137.7	208.0	81.0	108.9	227.7	275.5	217.9
80°	300.7	265.7	228.4	189.9	140.3	162.9	65.0	94.8	211.4	250.9	196.7
81°	260.4	248.4	210.8	160.0	145.1	120.3	50.9	80.7	194.3	224.4	174.7
82°	217.9	224.2	192.7	139.7	104.6	85.4	38.5	67.9	176.9	198.5	133.1
83°	178.9	199.4	167.0	121.8	68.1	57.8	28.5	55.8	159.4	179.2	91.4
84°	142.5	176.7	130.0	107.0	55.3	45.0	20.8	44.4	134.0	143.8	35.1
85°	98.7	138.7	100.4	91.0	42.6	32.4	15.7	33.9	108.6	108.5	25.0
86°	68.2	102.4	74.1	62.6	29.9	19.8	10.7	23.9	90.8	73.1	14.9
87°	54.5	59.8	49.3	35.0	21.2	11.5	5.6	16.2	60.3	37.8	4.8
88°	41.0	44.6	37.1	7.3	11.2	4.7	2.6	8.6	40.2	2.5	1.8
89°	27.4	29.9	24.9	4.5	7.5	2.4	0.8	1.1	20.1	0.7	0.6



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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: P1449902
 CATALOG NUMBER: TWC60_T3_36W_3000K

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: P1449902
CATALOG NUMBER: TWC60_T3_36W_3000K

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: P1449902

CATALOG NUMBER: TWC60_T3_36W_3000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4
1°	1761.2	1760.5	1761.0	1764.2	1766.4	1767.8	1771.5	1773.7	1778.0	1780.9	1783.5
2°	1749.5	1749.5	1752.2	1753.1	1756.5	1761.2	1768.5	1771.2	1779.2	1784.7	1792.5
3°	1740.2	1739.7	1741.3	1743.4	1746.8	1756.7	1763.4	1769.9	1781.7	1790.4	1801.8
4°	1740.1	1741.2	1741.2	1738.1	1739.5	1746.1	1756.9	1769.3	1782.2	1795.8	1808.2
5°	1744.1	1745.1	1743.2	1740.3	1735.6	1740.2	1751.3	1766.1	1783.2	1800.5	1814.9
6°	1742.0	1742.1	1743.6	1741.4	1736.3	1731.9	1745.0	1761.5	1783.2	1803.3	1822.5
7°	1729.2	1725.3	1731.7	1737.6	1737.1	1728.1	1739.3	1755.5	1780.9	1807.5	1829.4
8°	1704.4	1704.0	1708.2	1724.0	1734.1	1725.7	1732.5	1752.3	1782.2	1810.1	1836.0
9°	1691.0	1690.2	1690.3	1702.6	1723.6	1724.5	1723.1	1744.4	1780.1	1813.9	1843.2
10°	1681.5	1679.0	1680.1	1685.9	1705.9	1721.7	1715.7	1738.4	1777.5	1814.8	1849.0
11°	1672.1	1671.9	1672.2	1674.6	1685.6	1716.7	1707.1	1732.5	1774.1	1815.0	1854.1
12°	1665.4	1666.4	1665.1	1663.1	1670.0	1706.4	1701.2	1724.4	1771.3	1818.3	1858.5
13°	1659.0	1660.5	1659.5	1655.3	1657.8	1689.1	1695.0	1717.4	1765.6	1818.8	1864.4
14°	1652.2	1651.2	1651.7	1648.0	1647.2	1668.6	1690.3	1705.9	1763.5	1818.4	1866.9
15°	1645.2	1645.6	1644.3	1638.8	1635.4	1649.8	1683.8	1698.6	1758.1	1816.1	1869.4
16°	1639.3	1638.8	1635.0	1627.7	1624.8	1633.6	1676.3	1687.7	1753.6	1815.6	1872.6
17°	1633.0	1632.3	1629.9	1620.1	1613.0	1618.8	1665.4	1676.1	1746.4	1813.2	1875.4
18°	1624.8	1625.8	1620.1	1610.7	1603.3	1605.0	1653.0	1666.8	1740.3	1811.7	1875.7
19°	1618.2	1620.0	1614.0	1602.0	1590.3	1590.5	1637.4	1653.7	1732.5	1808.1	1877.4
20°	1612.5	1613.6	1607.6	1592.6	1578.5	1577.2	1615.6	1642.2	1724.2	1805.1	1879.1
21°	1606.6	1609.3	1600.2	1583.6	1567.6	1563.9	1596.8	1629.1	1715.7	1798.5	1879.1
22°	1599.4	1604.1	1593.4	1575.7	1555.4	1547.1	1574.3	1617.8	1704.0	1794.1	1880.6
23°	1596.9	1600.2	1588.0	1566.0	1543.9	1531.8	1555.8	1603.3	1692.8	1787.6	1881.0
24°	1592.2	1596.7	1584.3	1556.9	1530.4	1515.0	1539.1	1590.5	1680.1	1780.2	1880.2
25°	1585.2	1593.6	1579.0	1548.9	1518.4	1499.9	1519.4	1577.1	1667.6	1775.4	1878.8
26°	1582.5	1587.2	1574.2	1541.3	1505.9	1484.5	1500.4	1564.7	1653.3	1768.6	1881.0
27°	1575.1	1581.0	1567.0	1533.6	1493.3	1467.6	1482.2	1551.9	1639.1	1760.0	1877.2
28°	1571.1	1578.3	1561.5	1526.1	1480.3	1450.8	1463.1	1540.3	1623.6	1751.4	1876.6
29°	1564.9	1574.8	1553.6	1515.4	1468.0	1432.8	1442.5	1521.9	1605.8	1742.2	1874.7
30°	1561.3	1570.2	1548.4	1508.2	1457.2	1416.1	1423.2	1503.1	1588.2	1732.7	1873.6
31°	1560.5	1567.5	1545.2	1498.2	1445.3	1396.7	1400.3	1483.8	1570.2	1722.0	1871.3
32°	1555.4	1564.6	1540.4	1489.6	1432.0	1379.3	1380.9	1461.3	1550.9	1710.5	1869.0
33°	1549.9	1558.8	1534.7	1481.9	1418.4	1362.4	1356.3	1435.1	1532.1	1699.6	1865.6
34°	1541.7	1554.9	1528.4	1473.3	1402.2	1344.5	1335.2	1406.2	1511.2	1686.9	1864.3
35°	1535.3	1549.5	1521.9	1464.5	1389.4	1324.8	1311.5	1379.3	1492.0	1676.6	1863.7
36°	1532.1	1547.4	1514.9	1456.1	1374.9	1305.6	1288.8	1352.1	1471.8	1664.3	1859.2
37°	1530.2	1544.9	1510.9	1444.4	1361.2	1286.8	1264.3	1324.7	1450.0	1652.3	1858.6
38°	1527.6	1540.1	1507.7	1435.3	1346.1	1267.7	1240.7	1297.9	1430.0	1641.0	1852.3
39°	1520.3	1533.9	1502.7	1425.8	1331.9	1246.9	1216.9	1269.7	1408.2	1627.6	1846.8
40°	1512.0	1526.2	1493.9	1417.0	1314.5	1226.7	1192.5	1242.9	1384.3	1616.5	1842.3
41°	1507.1	1519.9	1485.5	1406.5	1299.3	1205.5	1168.2	1213.3	1362.2	1604.2	1836.0
42°	1498.1	1511.8	1477.9	1394.6	1286.6	1187.4	1143.9	1186.6	1336.9	1592.2	1829.9
43°	1490.9	1504.3	1470.6	1385.8	1272.4	1169.2	1119.4	1157.9	1312.5	1581.7	1821.5
44°	1480.0	1493.0	1460.5	1377.2	1259.0	1151.0	1092.6	1127.2	1288.6	1571.4	1812.2



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CATALOG NUMBER: TWC60_T3_36W_3000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1466.5	1479.7	1449.3	1366.3	1242.9	1126.4	1065.1	1096.1	1263.2	1561.5	1799.9
46°	1451.3	1460.6	1434.4	1354.6	1225.8	1102.7	1040.1	1065.5	1237.1	1549.9	1785.0
47°	1431.9	1436.4	1417.9	1343.3	1209.9	1080.4	1012.8	1034.2	1210.9	1539.5	1771.1
48°	1403.4	1404.3	1392.8	1329.5	1195.6	1059.5	987.0	1003.0	1186.5	1528.7	1753.0
49°	1368.6	1363.7	1363.0	1315.1	1179.9	1037.8	958.7	971.8	1159.3	1516.6	1736.1
50°	1323.3	1314.2	1325.8	1295.7	1164.3	1015.0	930.5	939.8	1134.1	1506.4	1715.3
51°	1271.1	1256.3	1278.8	1274.6	1148.6	992.1	901.9	909.5	1111.2	1494.3	1692.6
52°	1215.4	1198.0	1225.2	1243.9	1128.9	969.6	872.3	877.2	1086.8	1479.3	1664.8
53°	1159.6	1139.7	1171.5	1202.1	1109.9	949.0	842.0	843.8	1062.3	1460.7	1633.1
54°	1103.6	1081.3	1117.7	1160.3	1091.4	926.1	811.9	811.5	1039.3	1442.6	1598.2
55°	1038.3	1013.7	1057.2	1118.3	1070.8	900.5	783.1	777.2	1016.8	1424.4	1563.2
56°	971.5	947.4	990.3	1063.3	1049.1	875.3	754.4	742.6	995.2	1402.3	1522.7
57°	905.2	882.7	925.0	1008.5	1022.5	847.9	722.8	708.6	973.5	1376.6	1477.0
58°	843.3	826.4	860.7	949.7	989.2	820.2	691.2	675.0	951.7	1351.3	1429.1
59°	796.3	786.3	806.0	887.8	949.4	794.1	660.2	642.2	930.1	1319.2	1374.8
60°	760.5	752.9	764.3	828.0	901.3	765.8	629.4	610.2	909.6	1286.4	1317.7
61°	724.7	713.2	731.3	768.4	851.2	738.5	599.2	577.1	885.4	1250.5	1260.3
62°	680.9	663.6	692.3	721.9	797.4	710.4	567.7	545.7	863.3	1211.2	1200.6
63°	623.3	606.8	639.4	689.2	739.2	679.2	534.7	514.4	839.9	1164.0	1138.0
64°	576.4	570.8	584.5	656.5	683.1	649.0	502.4	483.0	817.8	1109.9	1069.7
65°	551.1	549.9	551.3	612.1	628.5	617.4	470.7	452.7	797.0	1050.4	996.3
66°	530.5	529.0	528.7	560.1	581.3	580.4	438.4	421.1	777.0	985.0	926.6
67°	510.7	506.6	510.0	524.1	550.0	536.2	407.5	389.1	755.3	914.8	868.8
68°	487.9	481.6	488.7	496.9	524.5	488.8	377.0	356.7	730.3	835.2	814.5
69°	463.2	454.2	466.6	472.7	488.5	441.5	347.8	323.3	697.7	746.4	759.4
70°	437.4	425.7	444.0	449.2	456.6	392.0	318.8	291.1	660.0	644.9	691.3
71°	408.1	393.2	418.1	427.1	435.2	345.9	290.5	259.1	613.0	557.4	602.5
72°	376.9	362.5	389.5	408.5	416.9	307.8	264.3	228.3	566.0	522.1	526.6
73°	347.2	334.3	359.0	389.9	396.1	281.4	237.4	200.3	515.3	488.1	450.7
74°	316.2	302.9	328.8	371.1	375.2	255.3	212.1	174.3	464.6	479.4	374.9
75°	285.9	271.1	297.0	351.3	355.4	233.5	184.9	149.6	413.9	377.5	345.3
76°	253.0	236.6	267.1	329.0	334.9	216.8	159.5	127.5	348.9	275.8	318.8
77°	221.7	204.5	237.0	303.4	313.5	200.6	135.6	107.8	263.4	224.2	296.6
78°	193.8	174.1	209.8	272.1	290.7	183.8	111.8	91.1	197.0	191.0	265.7
79°	157.8	136.9	183.3	238.4	267.8	168.2	91.5	76.3	136.2	187.0	226.5
80°	121.9	99.7	143.1	210.3	244.3	153.4	76.0	62.7	101.7	188.4	191.0
81°	85.9	62.6	102.9	189.0	219.7	137.7	63.3	51.3	87.9	141.4	166.5
82°	45.3	35.4	62.9	171.7	194.6	122.0	52.4	39.9	78.5	93.8	147.9
83°	28.1	27.3	29.9	124.2	168.7	106.3	41.9	28.5	64.3	74.5	132.4
84°	20.4	19.7	20.8	77.2	140.4	90.2	32.4	20.8	50.6	61.2	114.0
85°	14.9	14.4	15.2	52.9	112.2	73.5	23.9	14.7	36.9	51.2	86.6
86°	9.4	9.1	9.6	28.7	84.0	55.5	17.4	9.5	23.2	41.2	46.7
87°	3.9	3.9	4.1	4.8	56.0	41.2	10.8	5.4	13.6	31.2	28.4
88°	1.6	1.6	1.6	1.6	28.0	27.6	4.3	2.9	5.2	13.0	10.4
89°	0.6	0.6	0.6	0.6	0.6	14.0	0.7	0.4	2.7	8.5	6.7



REPORT NUMBER: P1449902
 CATALOG NUMBER: TWC60_T3_36W_3000K

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: P1449902
 CATALOG NUMBER: TWC60_T3_36W_3000K

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: P1449902
CATALOG NUMBER: TWC60_T3_36W_3000K

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: P1449902
 CATALOG NUMBER: TWC60_T3_36W_3000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1774.4	1774.4	1774.4
1°	1784.0	1786.3	1787.9
2°	1796.9	1800.4	1800.8
3°	1806.6	1813.2	1811.8
4°	1817.4	1822.6	1826.2
5°	1827.5	1835.2	1837.3
6°	1836.1	1848.0	1849.7
7°	1846.2	1856.9	1860.6
8°	1856.8	1869.7	1873.9
9°	1866.0	1882.4	1885.6
10°	1875.9	1892.8	1898.0
11°	1884.2	1903.3	1907.6
12°	1892.1	1911.9	1918.0
13°	1900.9	1921.2	1930.3
14°	1905.2	1931.7	1939.0
15°	1912.9	1940.0	1948.1
16°	1919.4	1949.8	1958.5
17°	1923.9	1956.6	1968.4
18°	1931.4	1967.3	1978.8
19°	1937.8	1974.7	1987.3
20°	1941.5	1983.2	1996.4
21°	1947.6	1991.4	2004.4
22°	1952.9	2001.5	2012.5
23°	1956.8	2009.6	2024.2
24°	1961.8	2019.1	2033.6
25°	1966.8	2025.9	2042.7
26°	1973.1	2034.2	2052.2
27°	1976.5	2042.5	2058.3
28°	1980.9	2050.9	2067.5
29°	1986.2	2055.9	2078.9
30°	1989.9	2064.6	2085.6
31°	1995.6	2070.8	2092.3
32°	1999.5	2075.5	2095.7
33°	2003.1	2079.5	2098.6
34°	2005.1	2079.0	2097.8
35°	2004.7	2076.4	2096.0
36°	2002.8	2074.8	2090.8
37°	2001.3	2067.3	2083.8
38°	1995.4	2058.3	2077.4
39°	1991.2	2047.1	2065.5
40°	1980.5	2036.4	2053.0
41°	1967.8	2022.2	2039.8
42°	1955.0	2008.2	2023.2
43°	1939.5	1991.6	2004.1
44°	1925.2	1968.3	1978.7



REPORT NUMBER: P1449902
CATALOG NUMBER: TWC60_T3_36W_3000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	1909.8	1943.7	1956.7
46°	1887.5	1918.5	1927.8
47°	1861.6	1886.3	1888.9
48°	1836.3	1848.6	1852.3
49°	1803.5	1809.6	1813.3
50°	1769.9	1771.6	1774.6
51°	1730.8	1728.8	1732.3
52°	1690.8	1685.1	1685.3
53°	1648.8	1636.4	1634.7
54°	1601.4	1588.5	1586.2
55°	1552.8	1539.5	1540.5
56°	1501.4	1490.0	1486.2
57°	1450.2	1436.5	1430.8
58°	1399.8	1375.9	1366.8
59°	1344.9	1307.5	1297.7
60°	1285.3	1238.8	1228.1
61°	1218.2	1169.0	1158.8
62°	1149.1	1098.2	1086.2
63°	1084.3	1022.4	1010.2
64°	1017.0	949.1	940.1
65°	942.1	875.6	869.6
66°	868.0	810.2	810.1
67°	792.0	749.0	746.5
68°	714.1	674.2	665.1
69°	635.6	590.5	584.2
70°	551.6	552.2	546.4
71°	495.2	514.2	510.2
72°	439.5	476.3	473.9
73°	415.5	447.2	443.0
74°	393.5	416.8	414.9
75°	371.4	386.0	391.3
76°	347.7	356.1	370.5
77°	319.6	331.0	354.3
78°	289.9	313.5	342.9
79°	265.6	301.3	327.5
80°	244.5	287.7	300.7
81°	223.2	262.4	260.4
82°	195.3	230.0	217.9
83°	161.2	199.7	178.9
84°	126.8	168.4	142.5
85°	108.5	125.1	98.7
86°	80.8	86.6	68.2
87°	52.8	69.0	54.5
88°	39.7	51.9	41.0
89°	26.6	34.7	27.4



REPORT NUMBER: P1449902
CATALOG NUMBER: TWC60_T3_36W_3000K

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: P1449902
CATALOG NUMBER: TWC60_T3_36W_3000K

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: P1449902
CATALOG NUMBER: TWC60_T3_36W_3000K

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: SP1-2601-659-1

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-3000K

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

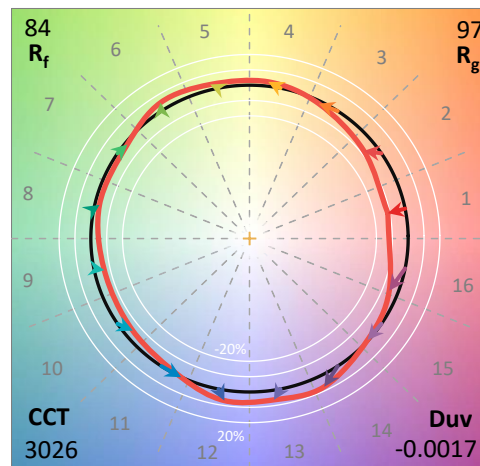
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2601-659-1
 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-3000K**
 Description: Mester Wedge, at T4 beam setting, 24W output, 3000K

Spectral Parameters

CCT (K): 3026
 CIE u': 0.2503
 CIE v': 0.5184
 Duv: -0.0017
 CIE x: 0.4326
 CIE y: 0.3983
 CIE z: 0.1691
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 583
 Purity: 49.3886
 Rf: 84
 Rg: 97.4

CRI (Ra):	82.7		
R1:	81.4	R9:	7.5
R2:	90.7	R10:	78.8
R3:	96.3	R11:	80.8
R4:	81.1	R12:	70.7
R5:	81.6	R13:	83.7
R6:	88.6	R14:	98.6
R7:	82.6	R15:	74.2
R8:	59.3		



Test Conditions

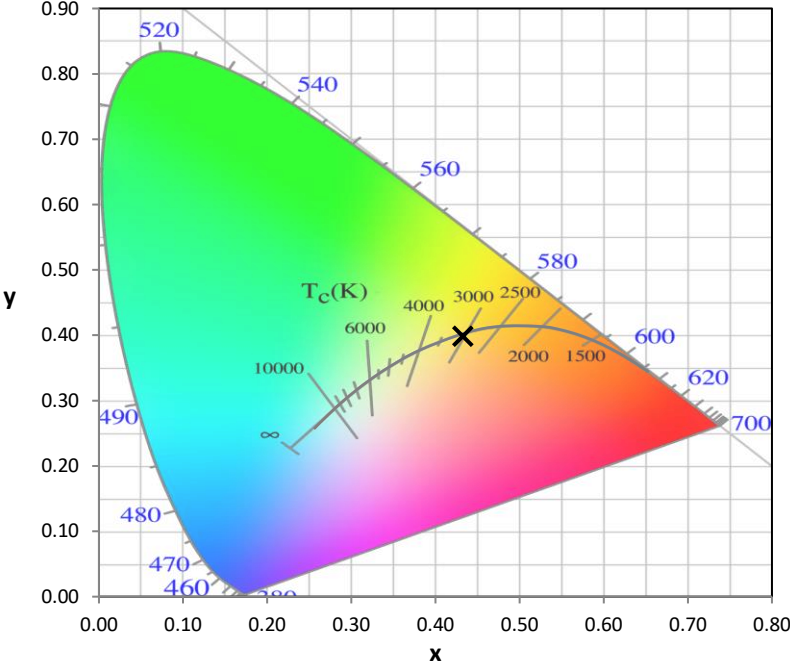
Stabilization Time: 64M
 Operation Time: 2H 4M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-1

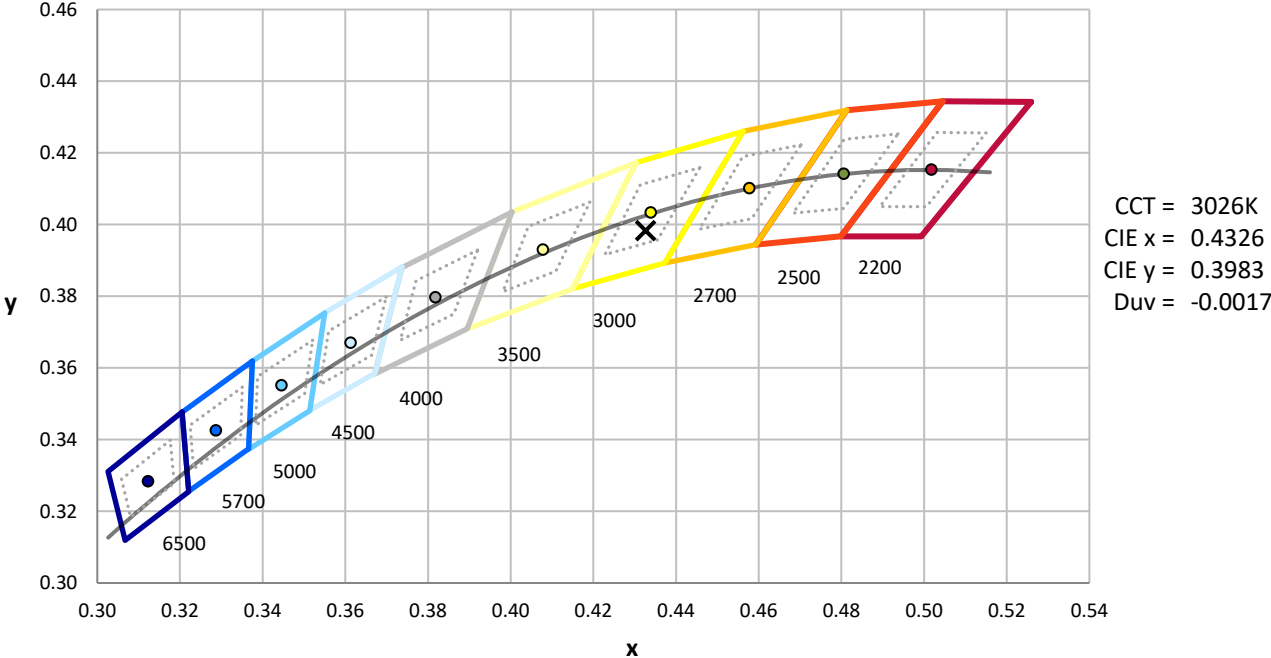
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2601-659-1

CIE 1931 Chromaticity Diagram



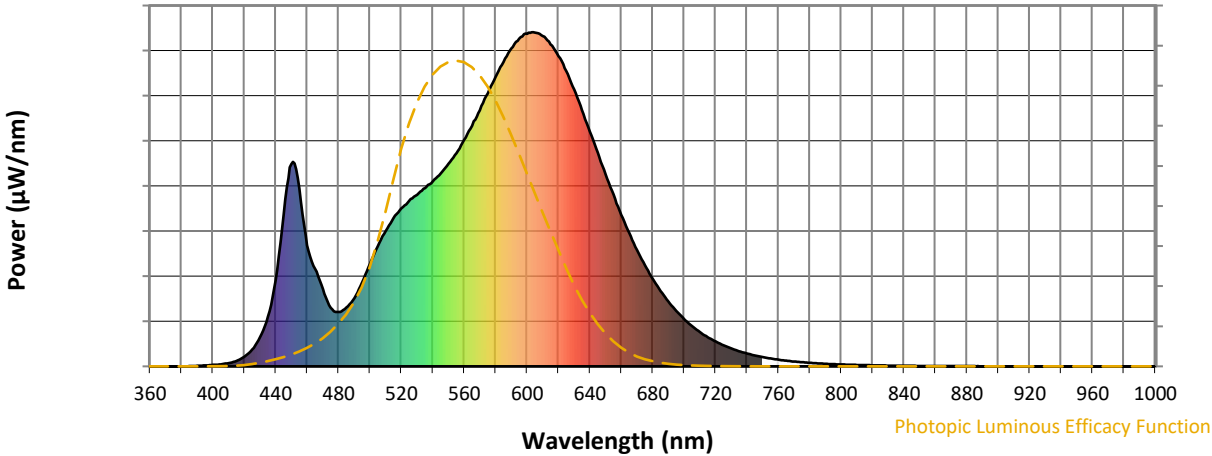
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

Photopic Flux vs. Wavelength

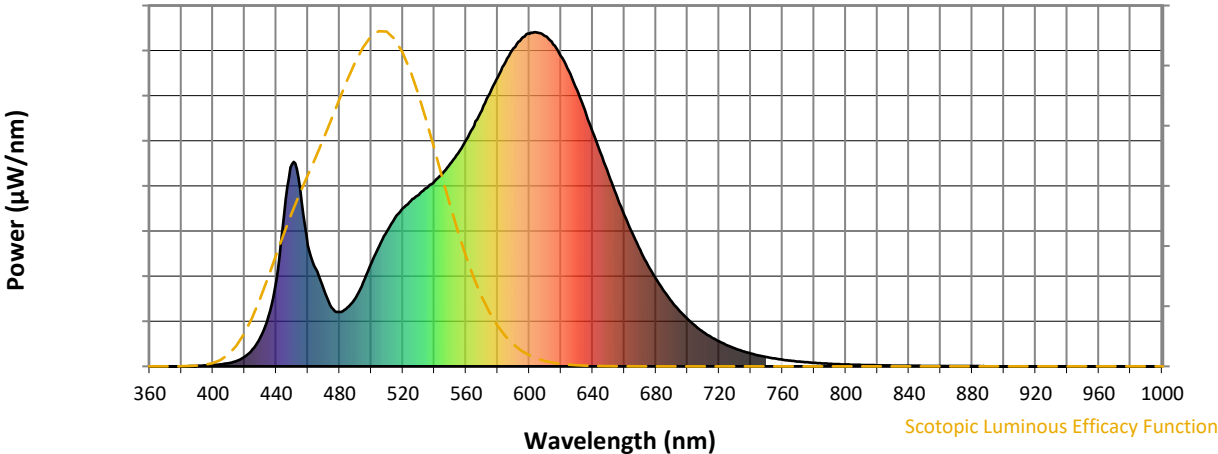


Photopic Lumens: NR

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	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-1

Scotopic Flux vs. Wavelength



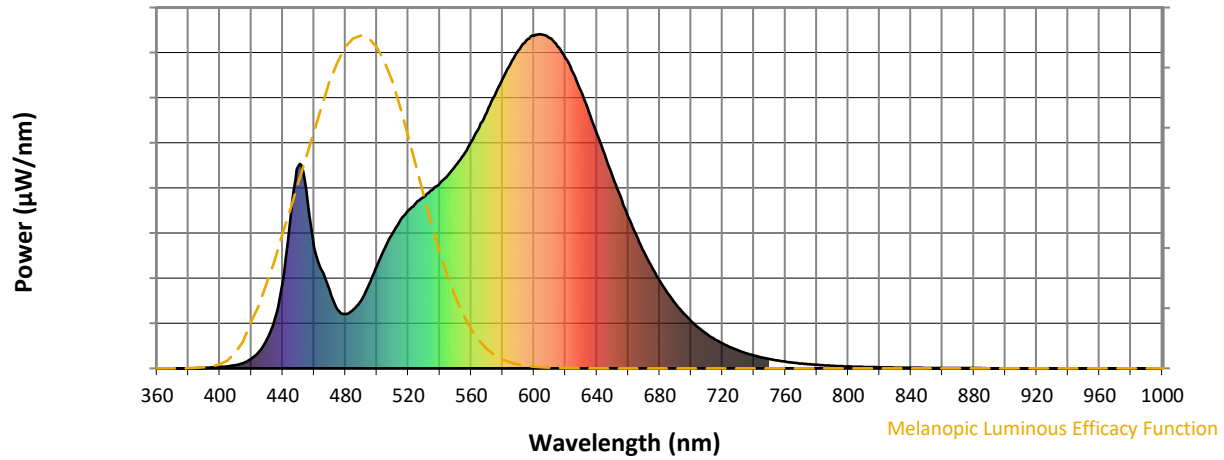
Scotopic Lumens: NR

S/P: 1.35

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	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-1

Melanopic Flux vs. Wavelength



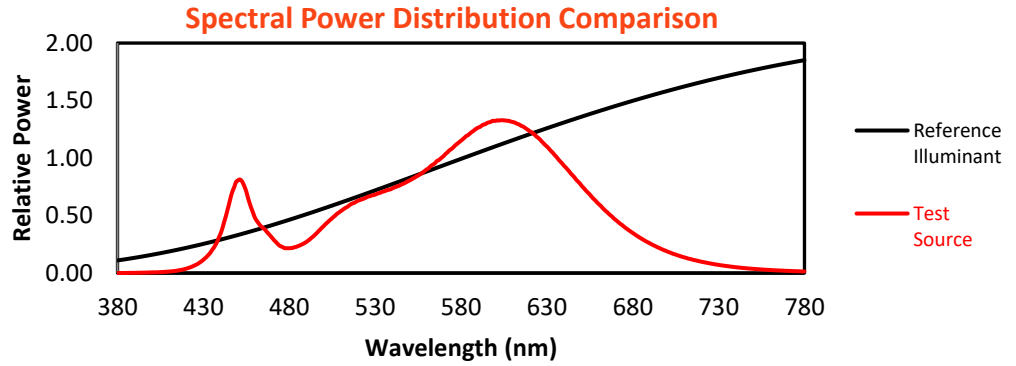
Melanopic Lumens: NR

M/P: 2.61

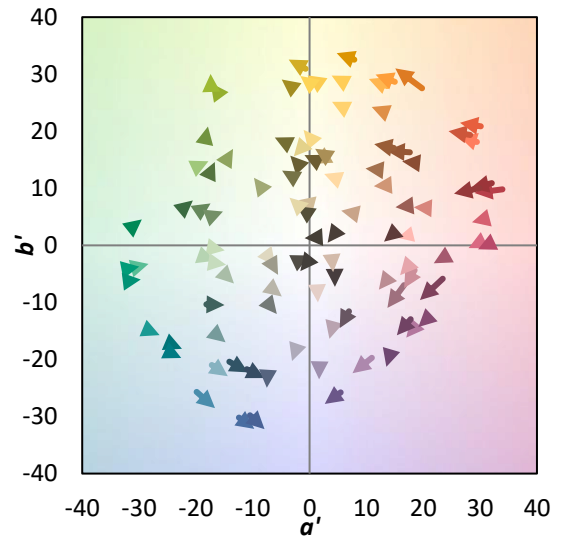
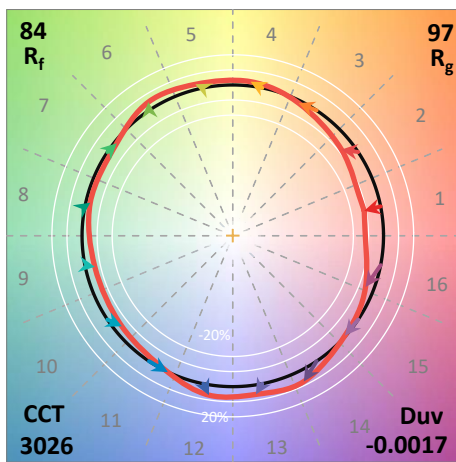
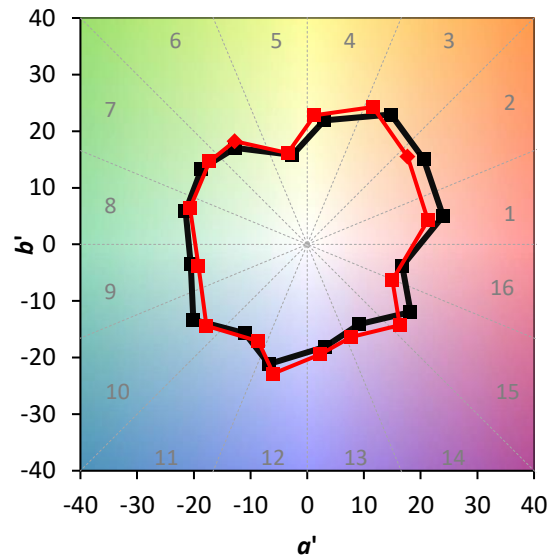
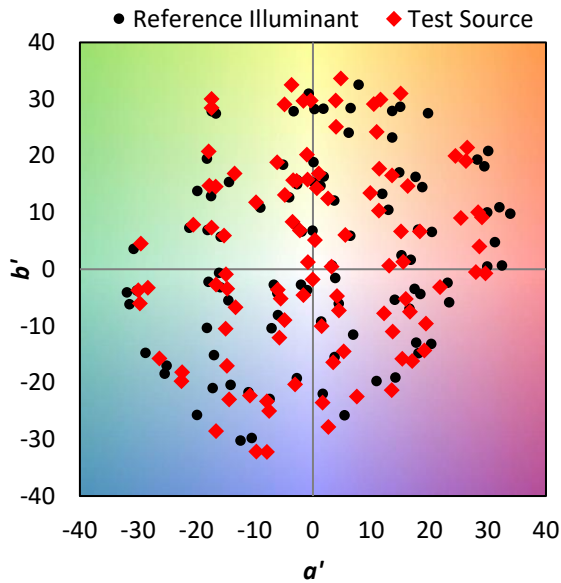
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

Summary

$R_f = 84$
 $R_g = 97.4$
 $CIE R_a = 82.7$
 $R_9 = 7.5$

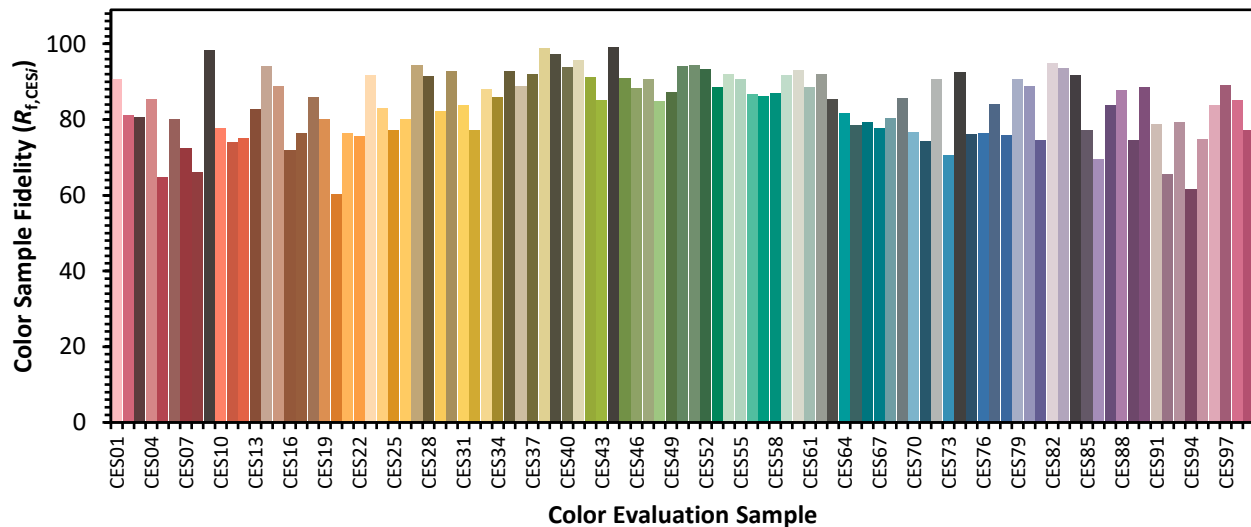


Color Vector Graphics

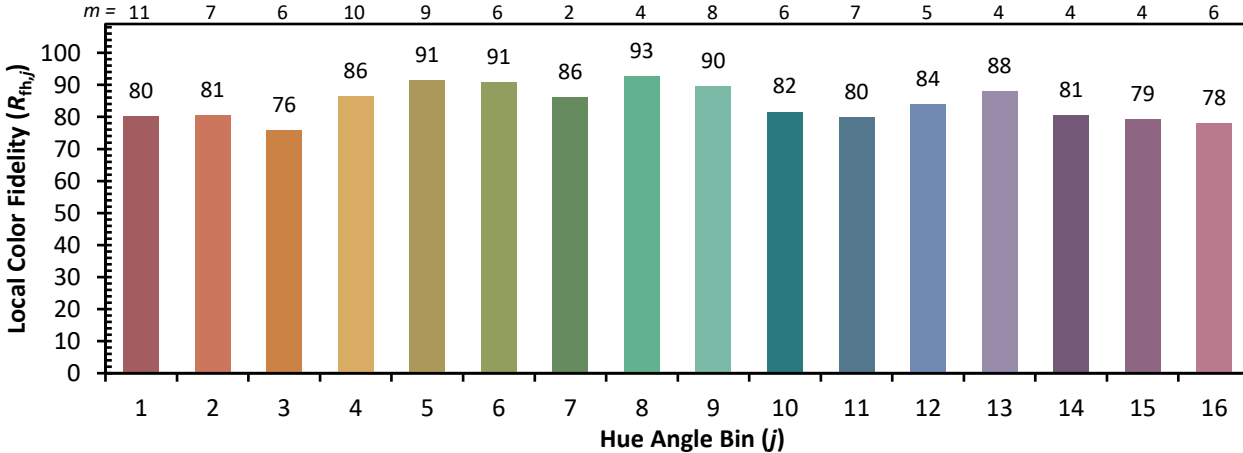
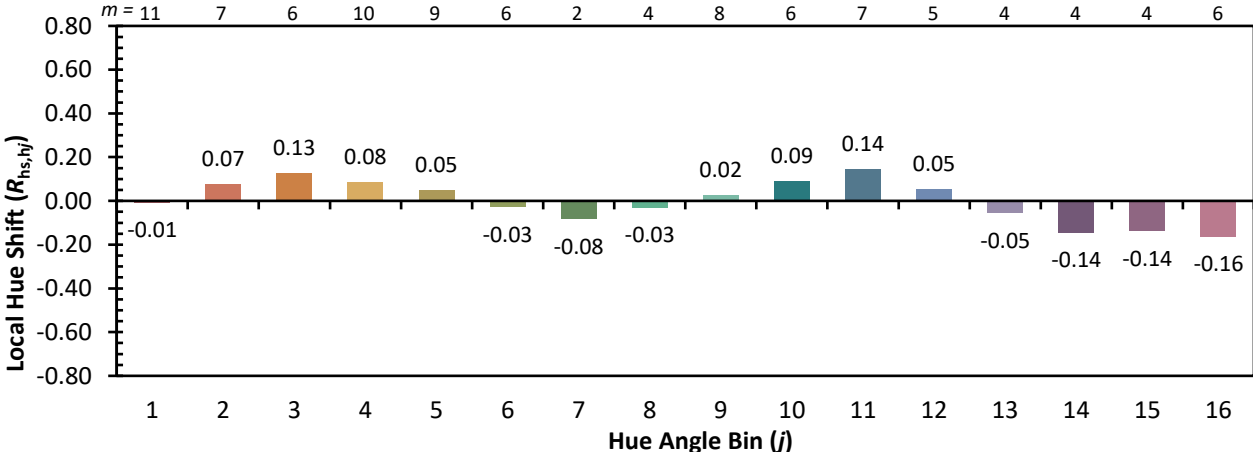
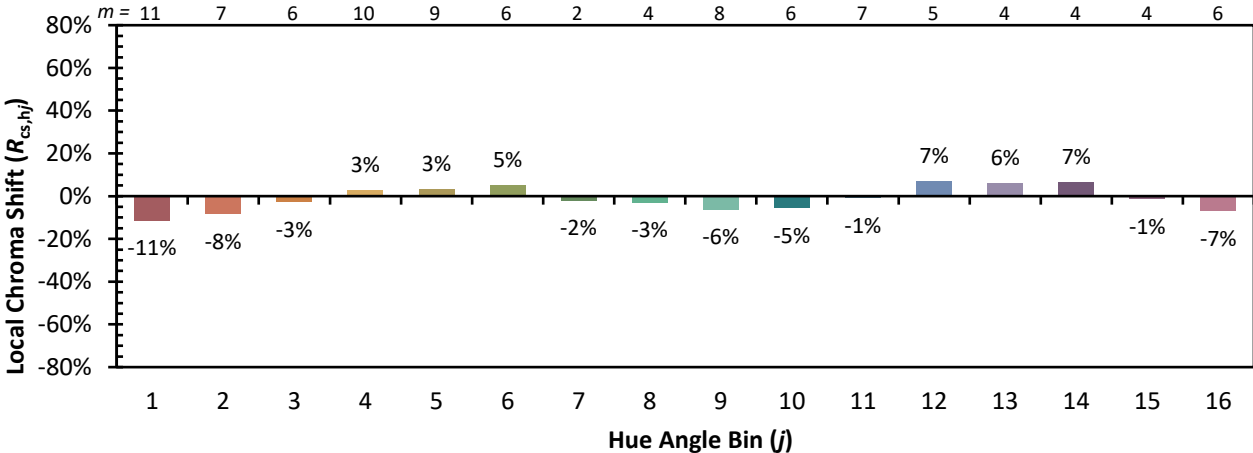


Individual Sample Fidelity Index ($R_{f,i}$)

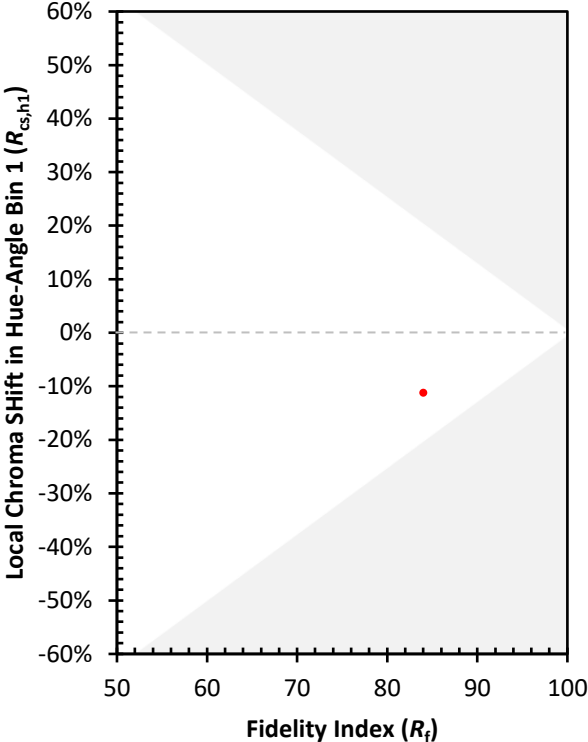
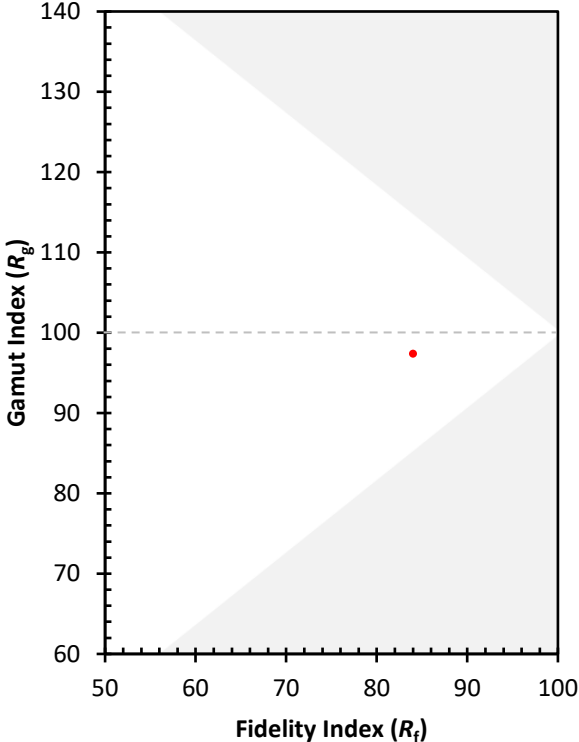
CES01 = 86	CES26 = 80	CES51 = 94	CES76 = 76
CES02 = 63	CES27 = 94	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 92	CES53 = 88	CES78 = 76
CES04 = 70	CES29 = 82	CES54 = 92	CES79 = 91
CES05 = 50	CES30 = 93	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 75
CES07 = 42	CES32 = 77	CES57 = 86	CES82 = 95
CES08 = 41	CES33 = 88	CES58 = 87	CES83 = 93
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 93	CES60 = 93	CES85 = 77
CES11 = 59	CES36 = 89	CES61 = 89	CES86 = 69
CES12 = 65	CES37 = 92	CES62 = 92	CES87 = 84
CES13 = 43	CES38 = 99	CES63 = 85	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 82	CES89 = 75
CES15 = 72	CES40 = 94	CES65 = 79	CES90 = 89
CES16 = 48	CES41 = 96	CES66 = 79	CES91 = 79
CES17 = 50	CES42 = 91	CES67 = 78	CES92 = 66
CES18 = 57	CES43 = 85	CES68 = 80	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 86	CES94 = 62
CES20 = 67	CES45 = 91	CES70 = 77	CES95 = 75
CES21 = 87	CES46 = 88	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 91	CES72 = 91	CES97 = 89
CES23 = 92	CES48 = 85	CES73 = 71	CES98 = 85
CES24 = 91	CES49 = 87	CES74 = 93	CES99 = 77
CES25 = 72	CES50 = 94	CES75 = 76	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)