

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: P1449891

Luminaire Tested: **TWC60_T2_36W_4000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449891
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_T2_36W_4000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 36W
4000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5778 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.42' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

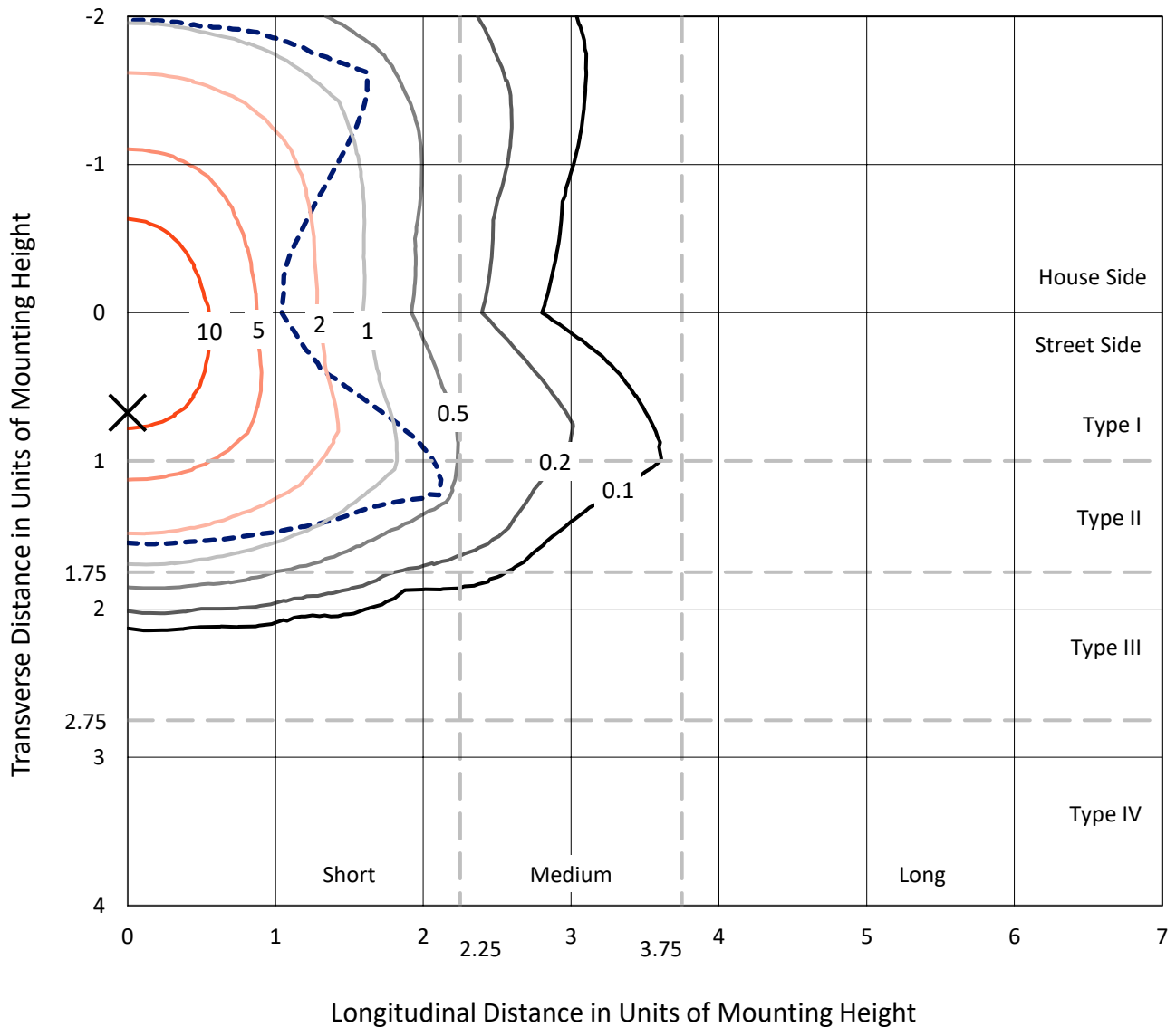
Input Watts (W): 35.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

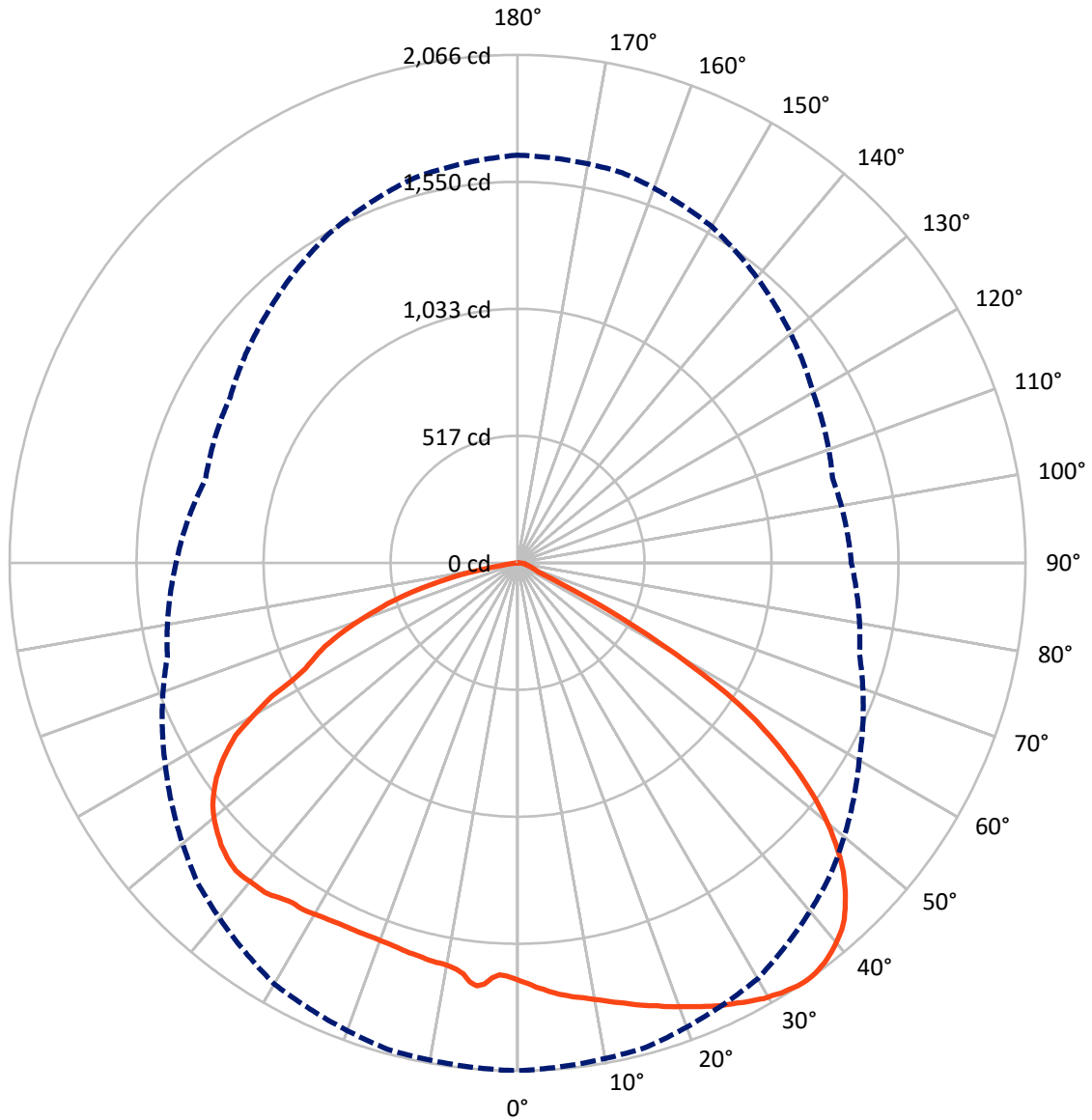
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 34-Deg Vertical

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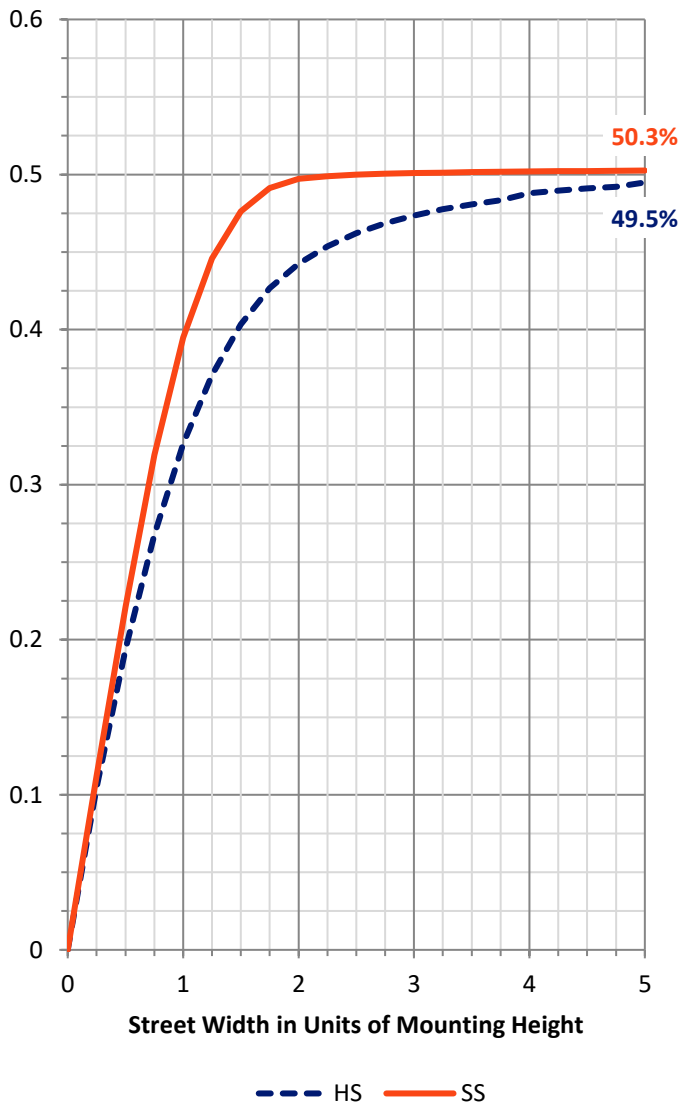
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2874.8	0.0	2874.8
	% Fixture	49.8	0.0	49.8
Street Side	Lumens	2903.2	0.0	2903.2
	% Fixture	50.2	0.0	50.2
Total	Lumens	5778.0	0.0	5778.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	2.8
10°-20°	482.5	8.4
20°-30°	774.1	13.4
30°-40°	1013.0	17.5
40°-50°	1154.3	20.0
50°-60°	1099.2	19.0
60°-70°	713.6	12.3
70°-80°	316.3	5.5
80°-90°	61.4	1.1
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°	5778.0	100.0
0°-180°	5778.0	100.0

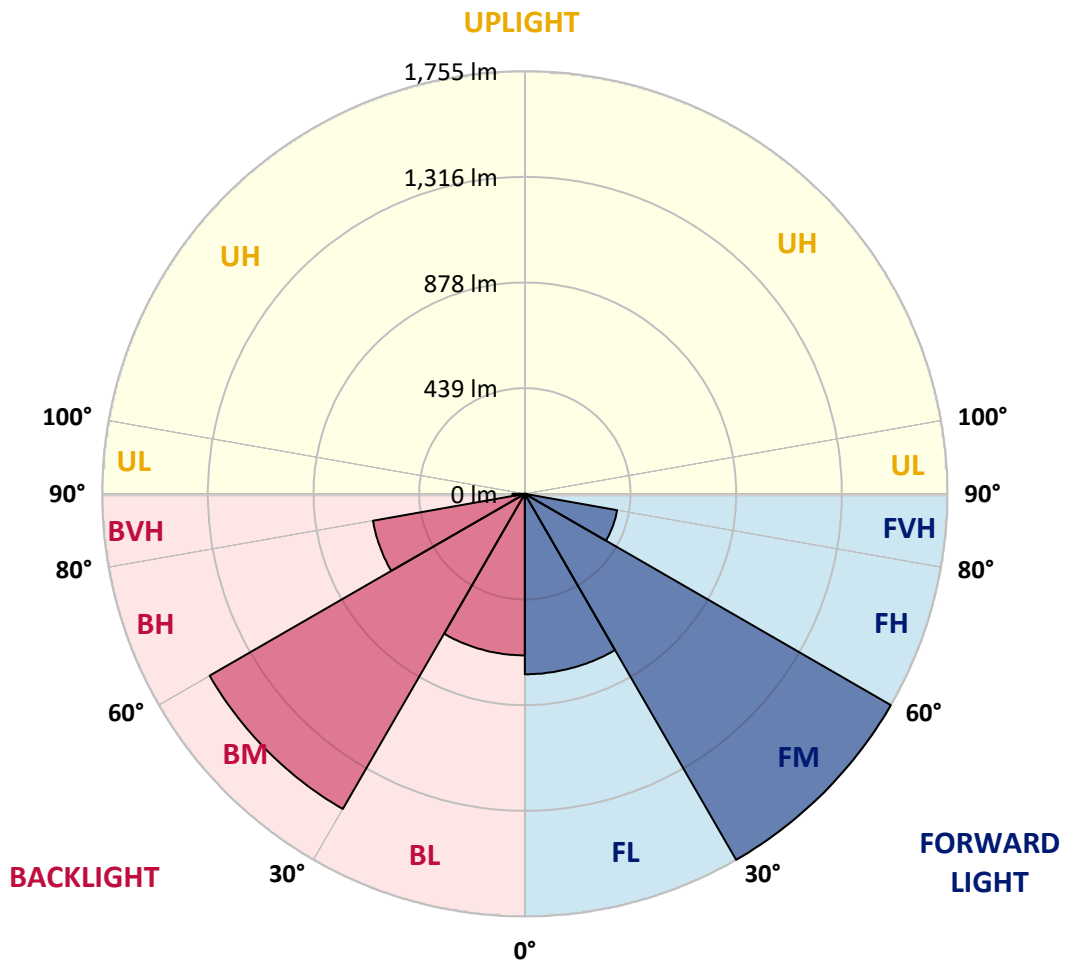


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.4	13.0			
FM (30°-60°)	1755.2	30.4			
FH (60°-80°)	389.3	6.7			G0/660
FVH (80°-90°)	9.4	0.2			G0/10
BL (0°-30°)	670.9	11.6	B2/1000		
BM (30°-60°)	1511.4	26.2	B2/2500		
BH (60°-80°)	640.6	11.1	B2/1000		G2/1000
BVH (80°-90°)	52.0	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7
1°	1712.5	1711.5	1712.1	1707.9	1704.8	1703.5	1702.0	1698.8	1695.9	1693.8	1692.1
2°	1727.1	1724.3	1721.3	1716.5	1710.6	1705.0	1700.4	1694.6	1689.8	1687.4	1684.4
3°	1738.6	1737.2	1731.8	1724.2	1716.4	1705.4	1698.5	1690.0	1683.2	1678.6	1676.3
4°	1751.7	1747.9	1741.9	1732.3	1719.2	1705.9	1695.1	1685.0	1677.2	1676.7	1683.4
5°	1762.5	1758.9	1750.7	1739.3	1722.8	1706.5	1693.1	1680.0	1672.8	1684.8	1705.4
6°	1771.9	1767.5	1759.2	1745.3	1726.2	1704.6	1685.9	1671.9	1674.5	1704.8	1724.2
7°	1781.1	1775.2	1763.9	1749.3	1727.7	1704.2	1682.4	1666.9	1684.4	1720.5	1726.7
8°	1789.0	1783.3	1771.5	1752.4	1730.1	1702.9	1677.3	1662.7	1697.6	1722.1	1704.7
9°	1798.8	1792.3	1776.1	1757.9	1729.5	1699.7	1670.8	1658.7	1709.9	1708.8	1679.0
10°	1808.1	1799.3	1784.0	1760.3	1731.0	1695.0	1664.5	1660.9	1709.4	1681.2	1667.3
11°	1819.0	1810.5	1788.9	1762.9	1728.9	1692.6	1658.6	1665.8	1702.0	1661.3	1658.8
12°	1830.5	1820.9	1796.2	1767.2	1729.3	1688.7	1648.9	1670.9	1678.3	1651.3	1652.6
13°	1840.7	1830.3	1804.1	1768.8	1728.6	1683.2	1640.2	1674.4	1655.4	1642.3	1648.3
14°	1854.0	1841.6	1812.3	1772.1	1727.4	1677.6	1632.0	1676.5	1637.4	1634.7	1645.4
15°	1867.3	1854.2	1820.1	1775.8	1724.2	1670.7	1622.6	1669.6	1624.3	1628.4	1637.9
16°	1878.3	1864.8	1830.7	1778.7	1724.5	1666.5	1613.4	1657.5	1614.2	1621.4	1633.3
17°	1889.5	1876.3	1837.9	1784.3	1723.7	1660.6	1604.6	1638.4	1602.3	1614.2	1629.2
18°	1903.3	1885.6	1845.8	1788.7	1722.7	1654.1	1596.8	1612.3	1593.3	1605.1	1625.2
19°	1915.8	1897.8	1854.7	1793.2	1719.9	1646.0	1588.6	1588.6	1583.9	1598.5	1618.6
20°	1927.1	1906.6	1860.8	1796.0	1719.8	1640.2	1582.6	1568.5	1572.4	1590.2	1612.1
21°	1940.1	1918.4	1870.0	1798.4	1715.3	1634.2	1579.3	1553.2	1559.3	1581.3	1608.5
22°	1953.3	1928.3	1875.1	1801.1	1710.9	1627.1	1575.7	1538.1	1546.3	1573.5	1604.6
23°	1966.8	1941.6	1881.7	1801.6	1705.9	1616.9	1571.8	1522.9	1535.3	1565.4	1598.0
24°	1979.8	1952.9	1888.8	1803.3	1701.7	1608.1	1565.9	1509.4	1523.1	1558.1	1594.2
25°	1990.6	1963.5	1896.4	1802.3	1695.4	1593.8	1558.2	1495.8	1510.9	1550.0	1592.5
26°	2000.9	1974.3	1903.6	1801.4	1686.9	1580.2	1545.2	1477.2	1496.2	1540.1	1589.5
27°	2013.8	1984.1	1913.4	1802.9	1680.2	1567.5	1529.5	1461.5	1482.9	1532.1	1585.6
28°	2023.8	1993.1	1918.2	1799.9	1670.7	1551.8	1508.0	1443.0	1470.0	1525.3	1584.6
29°	2036.1	2004.5	1925.4	1800.5	1660.0	1536.7	1485.6	1425.0	1458.1	1516.6	1583.8
30°	2042.6	2014.9	1929.5	1798.9	1650.7	1518.0	1457.6	1406.4	1444.2	1509.0	1580.7
31°	2052.0	2021.7	1937.5	1800.7	1639.8	1499.8	1431.4	1387.9	1429.0	1502.3	1580.5
32°	2057.6	2029.7	1941.7	1799.7	1627.7	1481.4	1405.5	1367.4	1416.2	1495.1	1578.8
33°	2063.8	2033.9	1948.5	1798.6	1616.2	1460.8	1380.0	1347.4	1400.5	1488.3	1579.8
34°	2066.1	2038.5	1953.5	1798.4	1604.9	1439.8	1357.4	1326.7	1387.3	1481.8	1579.4
35°	2064.8	2039.5	1958.7	1797.5	1593.6	1419.5	1332.9	1306.0	1370.7	1474.0	1577.8
36°	2058.3	2038.7	1958.6	1794.4	1582.0	1396.5	1308.1	1285.3	1356.4	1469.4	1570.8
37°	2051.2	2032.1	1961.7	1795.2	1570.6	1373.7	1282.6	1264.1	1341.7	1460.7	1570.2
38°	2039.1	2023.5	1959.5	1796.4	1561.2	1352.3	1257.1	1243.0	1328.1	1451.4	1570.7
39°	2024.6	2012.9	1954.2	1796.1	1551.1	1329.4	1230.7	1223.3	1313.5	1439.6	1574.1
40°	2008.7	1998.3	1949.6	1796.9	1541.7	1305.9	1204.3	1203.6	1299.2	1431.5	1577.9
41°	1991.1	1981.8	1940.0	1796.9	1532.9	1284.6	1177.8	1183.9	1284.1	1428.9	1576.4
42°	1966.8	1961.7	1928.5	1795.9	1524.1	1262.1	1151.9	1161.1	1267.1	1424.4	1575.8
43°	1935.7	1938.3	1912.9	1795.0	1517.0	1241.0	1122.8	1138.4	1247.1	1415.1	1575.6
44°	1902.4	1909.2	1894.9	1793.3	1509.9	1221.0	1092.9	1116.0	1232.9	1404.8	1576.6



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CATALOG NUMBER: TWC60_T2_36W_4000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	1866.0	1878.2	1876.1	1788.5	1503.7	1201.8	1063.5	1091.6	1218.7	1394.1	1576.6
46°	1826.9	1842.0	1851.8	1782.4	1498.0	1183.5	1035.3	1067.8	1204.5	1390.8	1572.8
47°	1779.8	1802.2	1827.5	1772.8	1494.4	1164.1	1003.7	1043.9	1188.8	1386.0	1564.2
48°	1728.9	1757.4	1795.1	1763.4	1488.9	1142.2	973.9	1017.8	1170.2	1379.0	1554.2
49°	1674.4	1706.5	1759.8	1747.1	1485.0	1119.1	942.3	989.5	1151.9	1370.1	1542.9
50°	1615.0	1648.7	1721.2	1730.1	1482.4	1094.1	911.5	958.6	1137.6	1360.3	1529.8
51°	1549.9	1591.3	1677.3	1711.9	1479.2	1068.5	879.9	928.8	1122.1	1347.9	1515.6
52°	1481.2	1525.1	1629.0	1691.5	1477.7	1041.7	847.2	903.3	1103.2	1337.0	1502.1
53°	1406.9	1456.3	1573.4	1664.9	1474.1	1010.3	816.0	879.1	1082.7	1326.7	1486.7
54°	1330.0	1382.0	1510.5	1634.0	1469.6	983.3	785.1	849.5	1061.4	1314.6	1470.0
55°	1248.5	1303.2	1443.6	1597.4	1466.2	955.6	751.5	819.2	1038.0	1300.9	1451.8
56°	1161.0	1219.8	1371.9	1558.0	1460.3	928.5	718.6	791.3	1018.5	1284.9	1431.9
57°	1062.0	1129.5	1292.8	1512.6	1451.4	902.5	686.0	763.6	996.1	1268.6	1410.1
58°	943.2	1030.9	1209.4	1457.5	1437.3	876.5	652.1	734.7	974.8	1252.0	1385.0
59°	809.5	914.0	1119.5	1396.0	1421.6	850.9	618.4	703.4	951.6	1235.2	1355.3
60°	671.0	779.5	1022.0	1324.5	1400.6	825.3	583.4	671.5	927.8	1218.4	1322.3
61°	540.6	640.7	914.5	1244.5	1378.0	801.5	550.0	639.4	903.6	1201.5	1282.5
62°	410.3	510.7	785.3	1150.2	1349.8	780.9	518.8	609.4	880.9	1178.5	1222.7
63°	280.0	380.8	650.8	1048.9	1316.7	762.5	485.2	577.4	859.6	1153.4	1163.0
64°	181.5	250.8	516.5	943.6	1277.0	747.4	452.2	547.7	837.0	1124.8	1102.0
65°	119.3	156.6	382.3	820.1	1230.9	737.0	420.6	518.2	813.8	1095.7	998.5
66°	91.8	103.2	248.0	682.9	1175.6	732.2	389.4	488.9	788.9	1056.6	923.3
67°	83.3	81.0	151.6	542.0	1107.7	729.6	359.5	459.6	764.4	993.7	879.1
68°	77.4	73.6	96.0	401.0	1023.7	728.2	329.5	431.3	735.6	915.8	842.3
69°	71.7	67.8	75.1	260.0	929.4	725.9	300.5	403.6	707.1	855.4	806.0
70°	66.0	62.2	67.6	151.5	809.4	725.4	272.3	377.1	679.9	817.4	771.1
71°	60.8	57.5	62.1	89.4	651.0	729.2	245.1	350.3	649.1	780.5	739.0
72°	56.5	52.8	56.5	64.8	482.0	729.9	220.4	324.1	600.0	740.1	705.2
73°	52.3	48.2	51.0	57.5	312.8	712.8	195.9	297.1	553.8	698.1	669.5
74°	48.1	44.0	45.5	50.5	143.5	663.1	172.5	270.8	523.3	658.6	629.3
75°	43.8	39.6	40.3	43.5	79.6	599.5	150.5	246.2	497.7	621.2	587.3
76°	40.2	35.5	34.4	38.8	67.1	531.1	128.5	221.7	469.5	584.7	536.7
77°	37.4	32.4	29.9	35.1	55.3	462.8	106.6	198.6	441.6	550.8	478.3
78°	35.6	29.8	26.2	30.9	43.6	394.4	88.2	170.8	415.8	518.1	425.6
79°	34.2	28.1	23.5	25.6	39.5	300.9	71.7	148.9	388.4	486.8	376.8
80°	32.3	26.7	21.4	20.9	39.4	227.4	56.9	127.1	361.5	446.2	338.9
81°	30.1	25.0	19.8	17.7	36.7	159.0	44.4	105.3	335.8	403.6	299.9
82°	27.6	23.0	18.2	15.5	31.4	103.4	33.8	88.4	308.0	360.2	213.8
83°	22.8	20.0	16.7	13.5	26.0	60.9	24.4	72.4	280.4	327.1	127.6
84°	18.0	16.3	14.1	11.7	17.9	45.5	18.7	56.8	242.4	297.1	43.1
85°	12.9	12.1	10.6	10.0	10.5	30.2	12.9	42.9	195.1	237.4	24.8
86°	9.0	9.2	7.7	7.4	6.8	14.9	7.2	30.0	156.2	177.7	6.8
87°	6.2	6.3	5.3	5.1	4.6	8.2	4.1	20.3	117.2	117.9	3.3
88°	3.3	3.4	2.9	2.8	2.4	5.4	1.9	10.6	78.2	58.2	1.2
89°	0.4	0.5	0.4	0.5	0.5	2.8	0.6	1.2	39.2	0.4	0.3



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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: P1449891
 CATALOG NUMBER: TWC60_T2_36W_4000K

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: P1449891
CATALOG NUMBER: TWC60_T2_36W_4000K

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: P1449891

CATALOG NUMBER: TWC60_T2_36W_4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7
1°	1690.5	1690.4	1691.8	1690.6	1693.2	1695.1	1697.3	1702.2	1704.9	1706.7	1708.9
2°	1680.5	1681.4	1680.8	1681.9	1687.8	1690.7	1694.8	1700.8	1707.8	1711.7	1717.3
3°	1675.6	1677.6	1674.8	1675.2	1677.6	1685.0	1689.6	1698.4	1707.4	1716.5	1726.9
4°	1691.4	1691.1	1685.7	1676.9	1671.5	1677.6	1685.2	1697.3	1711.0	1721.6	1734.3
5°	1716.9	1718.2	1710.2	1695.9	1674.5	1670.5	1680.5	1693.7	1710.2	1727.2	1741.9
6°	1728.9	1729.3	1728.8	1714.2	1688.4	1666.4	1674.5	1689.6	1709.9	1731.1	1747.5
7°	1719.2	1715.9	1720.9	1722.7	1705.2	1668.0	1668.3	1686.6	1710.2	1734.0	1753.6
8°	1689.1	1685.9	1691.6	1711.5	1715.3	1674.6	1661.4	1682.6	1710.6	1736.1	1757.7
9°	1672.6	1672.6	1672.8	1682.3	1712.4	1686.6	1653.0	1675.8	1706.8	1736.8	1762.1
10°	1665.2	1664.7	1664.3	1664.0	1691.8	1694.8	1647.8	1670.8	1705.4	1738.5	1766.9
11°	1659.0	1659.7	1657.9	1655.3	1667.4	1696.1	1643.0	1664.7	1700.6	1737.7	1769.0
12°	1657.8	1658.2	1653.6	1646.3	1649.9	1688.7	1640.2	1655.7	1698.4	1737.6	1773.6
13°	1654.1	1655.7	1651.6	1641.2	1639.7	1670.3	1642.0	1647.4	1694.2	1737.4	1777.9
14°	1650.0	1651.4	1644.7	1637.1	1629.2	1646.4	1646.2	1640.6	1690.7	1737.6	1782.2
15°	1646.0	1647.3	1640.8	1631.6	1619.6	1625.7	1645.8	1633.5	1685.3	1739.3	1788.3
16°	1643.1	1645.9	1638.6	1623.6	1612.7	1609.8	1647.1	1621.9	1680.5	1740.6	1793.1
17°	1640.3	1642.7	1634.9	1618.7	1602.9	1598.5	1640.5	1613.2	1674.8	1740.0	1799.2
18°	1635.8	1638.2	1629.0	1612.0	1593.1	1585.4	1629.0	1602.3	1672.0	1740.0	1805.6
19°	1631.1	1636.5	1626.1	1607.3	1582.5	1573.3	1612.9	1593.8	1666.7	1739.0	1811.1
20°	1630.2	1635.3	1621.7	1599.5	1575.7	1561.7	1591.3	1581.3	1661.0	1738.3	1812.6
21°	1628.8	1633.5	1619.3	1592.7	1566.9	1550.3	1566.9	1571.4	1656.8	1738.5	1816.9
22°	1627.1	1633.1	1617.7	1587.3	1556.4	1536.2	1542.8	1560.6	1648.9	1734.9	1819.8
23°	1627.3	1634.8	1615.9	1583.0	1546.1	1519.3	1522.3	1551.4	1641.1	1732.5	1823.5
24°	1625.8	1634.8	1615.3	1575.3	1535.8	1505.1	1504.2	1542.0	1630.4	1727.6	1826.5
25°	1625.0	1635.4	1614.6	1572.2	1527.4	1492.9	1486.3	1536.6	1618.9	1722.3	1827.8
26°	1627.1	1636.5	1612.3	1567.2	1517.7	1477.1	1469.2	1531.5	1608.1	1716.5	1829.9
27°	1626.5	1637.7	1612.9	1564.1	1508.1	1460.9	1451.1	1524.0	1593.7	1712.3	1831.4
28°	1627.8	1640.9	1612.9	1559.0	1497.4	1444.3	1435.3	1516.6	1578.9	1703.1	1832.5
29°	1631.4	1644.0	1613.6	1553.4	1488.5	1430.7	1417.8	1506.2	1563.5	1696.5	1834.8
30°	1632.1	1647.6	1616.2	1549.8	1478.5	1414.0	1397.6	1489.5	1546.3	1687.3	1838.2
31°	1638.9	1653.2	1617.1	1548.4	1469.1	1399.2	1376.4	1470.7	1528.2	1679.6	1839.9
32°	1641.5	1657.8	1621.7	1544.2	1458.5	1382.2	1357.0	1447.3	1511.8	1672.6	1838.6
33°	1643.0	1659.0	1622.3	1543.1	1446.3	1365.9	1334.2	1419.0	1493.2	1662.7	1842.2
34°	1642.8	1658.0	1621.3	1541.4	1438.5	1349.4	1314.4	1388.8	1474.7	1654.2	1840.5
35°	1643.1	1664.0	1619.6	1538.6	1426.9	1333.7	1292.8	1358.0	1455.4	1645.5	1843.1
36°	1649.6	1672.0	1620.9	1533.1	1417.5	1316.9	1270.1	1326.7	1436.2	1640.5	1844.3
37°	1658.0	1682.3	1627.6	1525.7	1408.2	1300.0	1246.6	1300.0	1417.0	1630.9	1847.0
38°	1664.1	1688.7	1634.5	1524.0	1398.2	1282.3	1224.8	1271.7	1398.8	1626.3	1847.1
39°	1666.8	1689.8	1639.1	1522.9	1385.8	1263.7	1202.9	1244.9	1379.7	1619.4	1847.7
40°	1668.1	1691.4	1638.2	1520.4	1371.8	1246.7	1181.1	1216.7	1359.2	1613.0	1846.3
41°	1670.5	1694.1	1637.6	1517.9	1361.0	1230.2	1154.2	1190.5	1339.1	1605.8	1848.2
42°	1672.8	1697.3	1643.0	1513.9	1351.4	1213.7	1128.0	1163.2	1319.2	1602.0	1844.2
43°	1675.3	1696.9	1644.0	1513.8	1344.1	1197.1	1100.5	1134.3	1300.0	1599.7	1840.9
44°	1671.7	1691.2	1643.8	1513.7	1336.1	1175.5	1074.0	1105.5	1278.6	1598.5	1833.6



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CATALOG NUMBER: TWC60_T2_36W_4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1664.9	1683.9	1638.3	1512.0	1321.7	1152.2	1047.5	1076.2	1257.3	1597.0	1824.4
46°	1654.8	1673.3	1628.9	1509.5	1309.3	1129.3	1021.0	1046.9	1237.9	1594.3	1812.2
47°	1644.4	1663.6	1617.7	1504.2	1298.1	1107.2	994.8	1015.9	1217.3	1591.3	1797.1
48°	1632.8	1649.1	1606.7	1497.1	1288.2	1090.0	967.9	986.4	1198.4	1589.8	1778.5
49°	1619.1	1635.5	1593.1	1487.5	1276.1	1068.9	940.7	954.1	1178.8	1587.4	1760.5
50°	1604.4	1620.2	1580.7	1476.7	1263.0	1047.1	912.5	922.1	1158.4	1584.0	1738.6
51°	1588.0	1602.6	1566.2	1461.4	1248.0	1025.9	884.0	891.4	1140.0	1580.2	1713.3
52°	1571.9	1584.1	1549.3	1448.6	1234.2	1005.3	852.8	859.6	1120.9	1575.7	1680.5
53°	1550.0	1558.7	1531.0	1432.8	1223.4	986.6	821.0	828.0	1103.5	1568.1	1645.8
54°	1526.7	1532.8	1511.8	1417.6	1212.7	964.6	789.3	795.0	1088.4	1556.8	1604.2
55°	1500.1	1503.5	1486.5	1400.3	1202.0	941.2	761.0	761.6	1074.1	1543.4	1558.4
56°	1469.6	1469.1	1459.0	1383.3	1187.6	914.1	730.9	727.7	1063.0	1523.2	1507.3
57°	1434.8	1432.6	1426.9	1362.3	1171.8	888.1	699.0	693.6	1055.6	1503.6	1446.1
58°	1395.9	1389.1	1390.9	1342.9	1157.0	861.0	667.1	659.6	1046.4	1479.6	1380.6
59°	1354.1	1344.2	1352.1	1318.8	1142.8	835.6	636.2	626.3	1038.9	1451.3	1304.1
60°	1308.2	1274.7	1309.4	1293.9	1124.0	809.7	605.7	593.7	1029.6	1419.6	1220.7
61°	1225.2	1205.2	1236.5	1263.1	1104.5	784.9	575.3	561.4	1020.6	1380.7	1129.4
62°	1142.2	1135.5	1163.7	1222.8	1083.9	758.4	543.8	529.0	1016.8	1337.6	1029.3
63°	1059.2	1027.4	1090.6	1182.4	1058.4	730.4	510.9	495.7	1012.7	1283.1	920.3
64°	974.7	963.7	990.8	1141.3	1033.6	704.7	478.3	462.2	1010.8	1222.2	799.9
65°	929.5	926.7	931.5	1061.6	1005.0	678.1	445.7	431.0	1006.4	1149.4	663.8
66°	895.4	892.2	892.2	965.2	976.0	650.3	414.2	400.3	1003.9	1063.6	526.5
67°	861.2	853.7	860.3	897.6	942.4	622.7	383.5	369.6	1002.0	966.2	389.1
68°	821.5	809.0	826.6	853.2	900.7	594.3	353.1	336.8	990.8	846.3	251.8
69°	778.4	759.1	787.6	810.4	837.5	564.8	323.5	305.1	966.2	706.8	151.4
70°	733.3	709.5	748.7	770.2	780.3	536.6	295.0	274.5	923.5	545.7	92.4
71°	682.3	653.4	703.5	732.9	745.7	508.0	268.7	244.1	861.3	383.9	68.8
72°	630.3	602.4	656.3	701.5	716.5	480.5	244.3	216.0	803.1	222.1	61.3
73°	580.8	554.9	605.6	672.1	681.9	450.5	219.0	189.2	755.8	121.4	55.4
74°	528.6	501.9	553.4	642.0	648.2	407.2	196.0	165.4	680.1	72.0	49.5
75°	477.1	448.0	500.6	610.6	614.0	371.7	173.9	142.1	592.9	61.5	43.6
76°	421.9	387.2	449.7	575.8	580.0	345.5	154.7	120.9	471.5	51.6	37.4
77°	365.7	329.2	397.0	531.9	544.9	320.4	135.5	103.3	348.9	41.7	32.1
78°	314.5	273.4	349.6	478.6	507.1	294.1	116.3	88.6	226.3	38.1	27.1
79°	259.2	205.7	300.2	421.4	470.6	269.4	100.2	76.2	126.5	36.3	22.6
80°	187.2	138.1	246.9	369.2	431.9	246.3	82.3	63.4	68.4	33.2	19.2
81°	115.2	71.0	162.5	332.4	389.8	222.6	66.8	51.7	55.5	27.1	17.0
82°	44.8	23.2	78.5	303.3	350.4	199.1	54.3	40.0	43.3	21.5	15.2
83°	32.7	18.3	55.3	213.0	306.5	174.9	42.6	28.3	31.1	15.5	13.5
84°	20.7	13.4	32.2	122.7	272.8	148.3	32.5	20.3	30.1	10.9	11.9
85°	8.8	8.5	9.3	32.5	241.0	121.7	23.7	14.1	26.1	8.5	9.9
86°	5.4	5.1	5.9	18.0	150.8	95.2	17.2	9.1	19.3	6.7	6.8
87°	2.6	2.5	2.7	3.6	61.7	71.0	10.6	6.2	11.4	4.4	4.2
88°	1.0	1.0	1.0	1.0	30.5	47.3	4.1	3.3	7.6	2.2	1.6
89°	0.2	0.2	0.2	0.3	0.4	23.5	0.6	0.4	3.9	0.4	0.5



REPORT NUMBER: P1449891
 CATALOG NUMBER: TWC60_T2_36W_4000K

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: P1449891
 CATALOG NUMBER: TWC60_T2_36W_4000K

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: P1449891
CATALOG NUMBER: TWC60_T2_36W_4000K

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: P1449891
 CATALOG NUMBER: TWC60_T2_36W_4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1701.7	1701.7	1701.7
1°	1711.6	1712.8	1712.5
2°	1722.3	1724.0	1727.1
3°	1731.6	1736.5	1738.6
4°	1743.2	1748.1	1751.7
5°	1752.1	1758.6	1762.5
6°	1760.0	1768.4	1771.9
7°	1767.5	1779.0	1781.1
8°	1775.2	1787.3	1789.0
9°	1781.7	1794.3	1798.8
10°	1787.8	1802.0	1808.1
11°	1795.0	1812.6	1819.0
12°	1802.8	1824.8	1830.5
13°	1812.7	1835.3	1840.7
14°	1821.4	1848.6	1854.0
15°	1831.4	1858.5	1867.3
16°	1840.8	1870.5	1878.3
17°	1848.6	1879.5	1889.5
18°	1857.3	1892.5	1903.3
19°	1866.2	1904.0	1915.8
20°	1875.4	1914.9	1927.1
21°	1884.9	1925.4	1940.1
22°	1892.3	1939.5	1953.3
23°	1899.3	1951.4	1966.8
24°	1909.9	1963.1	1979.8
25°	1917.2	1976.8	1990.6
26°	1926.7	1986.4	2000.9
27°	1935.5	1994.8	2013.8
28°	1942.9	2006.8	2023.8
29°	1947.7	2018.2	2036.1
30°	1957.9	2027.0	2042.6
31°	1964.5	2034.6	2052.0
32°	1970.7	2041.2	2057.6
33°	1976.7	2045.7	2063.8
34°	1978.3	2048.0	2066.1
35°	1983.9	2048.5	2064.8
36°	1986.0	2045.7	2058.3
37°	1983.1	2039.8	2051.2
38°	1981.5	2031.2	2039.1
39°	1975.4	2016.8	2024.6
40°	1966.1	2001.0	2008.7
41°	1952.6	1984.8	1991.1
42°	1938.5	1961.8	1966.8
43°	1920.6	1938.2	1935.7
44°	1900.5	1907.9	1902.4



REPORT NUMBER: P1449891
 CATALOG NUMBER: TWC60_T2_36W_4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	1877.6	1871.8	1866.0
46°	1850.5	1833.5	1826.9
47°	1816.7	1792.1	1779.8
48°	1781.7	1743.7	1728.9
49°	1739.9	1688.7	1674.4
50°	1694.2	1632.0	1615.0
51°	1643.6	1572.1	1549.9
52°	1587.7	1504.8	1481.2
53°	1529.7	1432.0	1406.9
54°	1462.1	1357.3	1330.0
55°	1389.9	1277.4	1248.5
56°	1312.4	1190.0	1161.0
57°	1229.8	1098.2	1062.0
58°	1140.3	991.0	943.2
59°	1046.6	864.8	809.5
60°	938.6	728.2	671.0
61°	816.5	584.7	540.6
62°	677.8	453.8	410.3
63°	544.0	323.0	280.0
64°	410.2	214.3	181.5
65°	276.5	134.9	119.3
66°	174.4	95.3	91.8
67°	108.0	81.0	83.3
68°	79.4	74.6	77.4
69°	70.1	69.1	71.7
70°	64.1	63.6	66.0
71°	59.0	58.8	60.8
72°	53.7	54.1	56.5
73°	48.4	49.4	52.3
74°	44.3	45.3	48.1
75°	39.4	40.9	43.8
76°	34.1	37.0	40.2
77°	29.7	34.0	37.4
78°	26.5	31.8	35.6
79°	24.1	30.2	34.2
80°	22.3	28.7	32.3
81°	20.7	26.7	30.1
82°	19.1	24.5	27.6
83°	17.2	21.0	22.8
84°	13.8	17.0	18.0
85°	10.9	12.6	12.9
86°	7.1	9.1	9.0
87°	4.9	6.2	6.2
88°	2.7	3.3	3.3
89°	0.5	0.4	0.4



REPORT NUMBER: P1449891
CATALOG NUMBER: TWC60_T2_36W_4000K

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: P1449891
CATALOG NUMBER: TWC60_T2_36W_4000K

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: P1449891
CATALOG NUMBER: TWC60_T2_36W_4000K

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: SP1-2601-659-2

Test Date: 02/12/2026

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

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

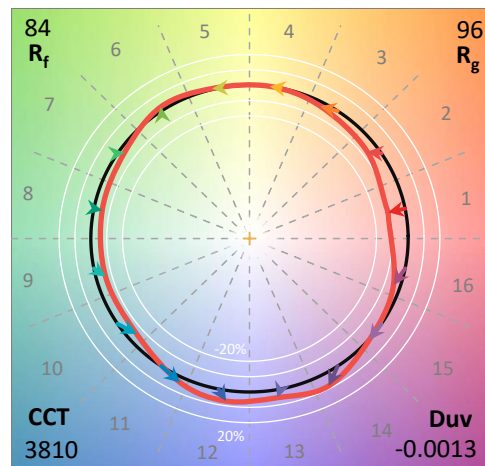
Test Information

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

Spectral Parameters

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

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



Test Conditions

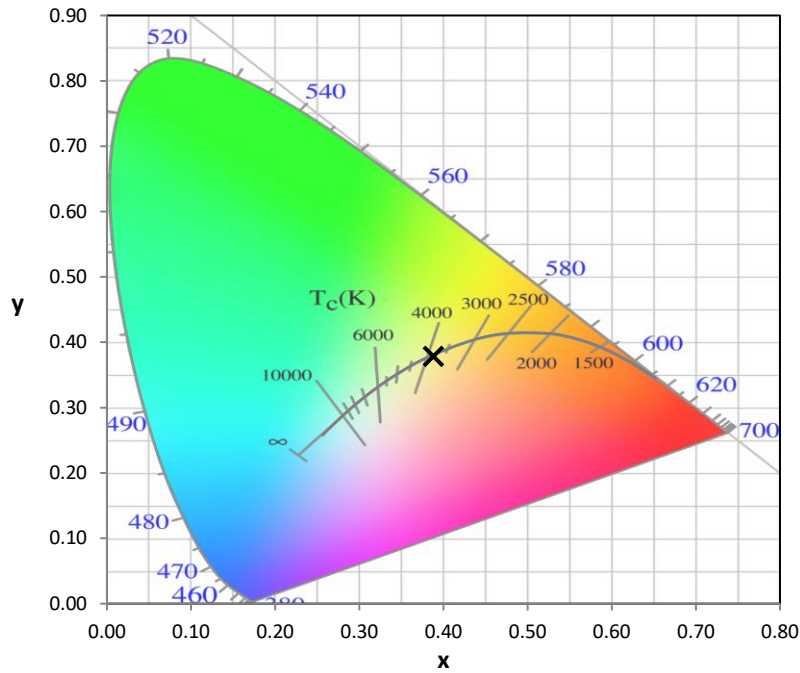
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-2

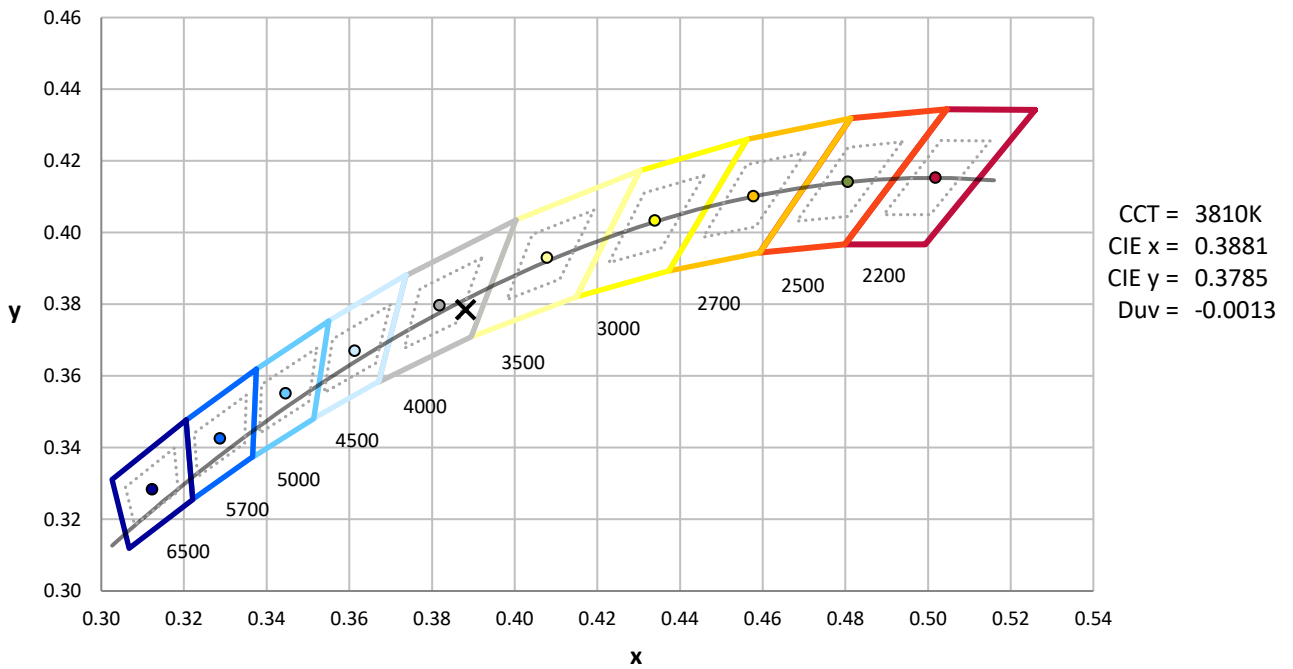
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2601-659-2

CIE 1931 Chromaticity Diagram



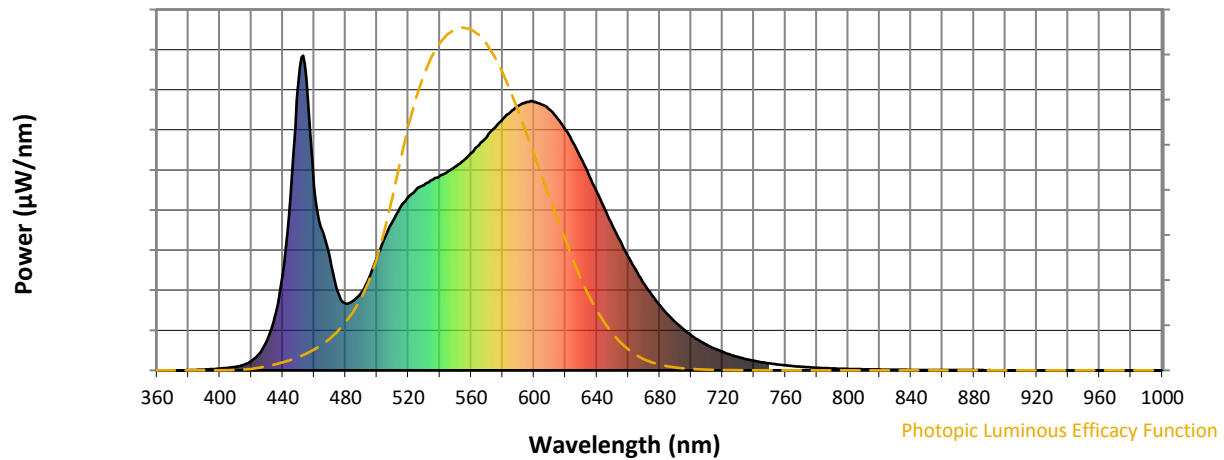
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

Photopic Flux vs. Wavelength

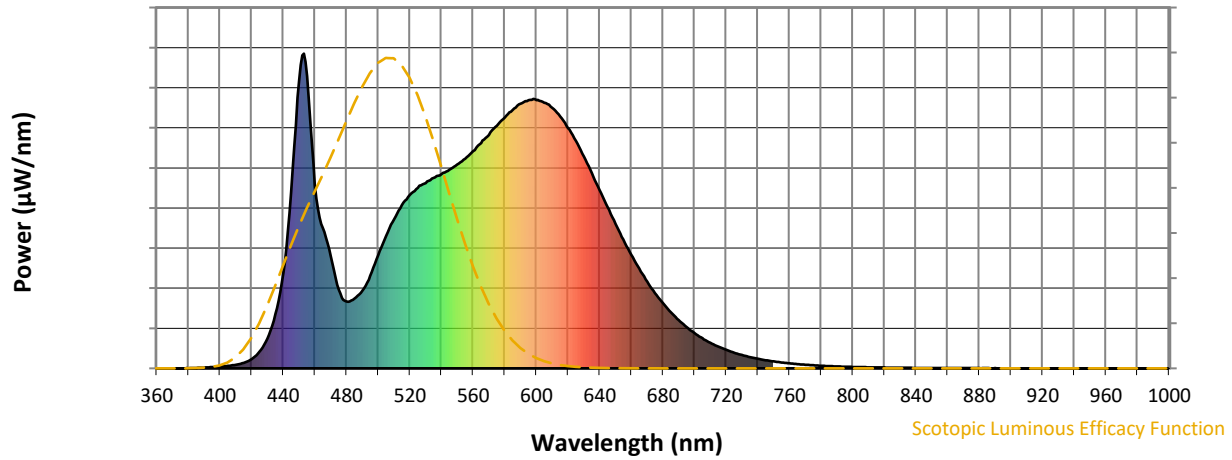


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2601-659-2

Scotopic Flux vs. Wavelength



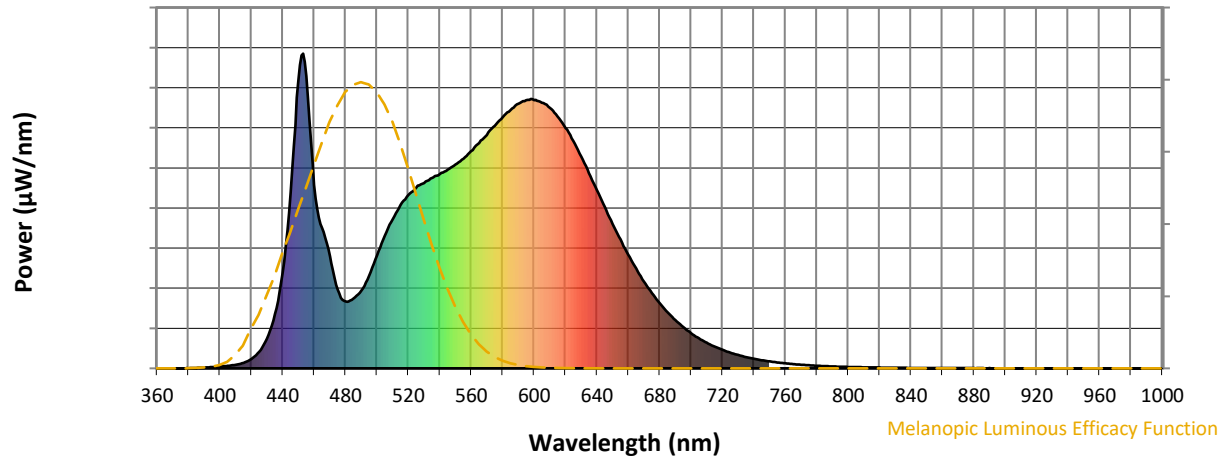
Scotopic Lumens: NR

S/P: 1.64

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

REPORT NUMBER: SP1-2601-659-2

Melanopic Flux vs. Wavelength



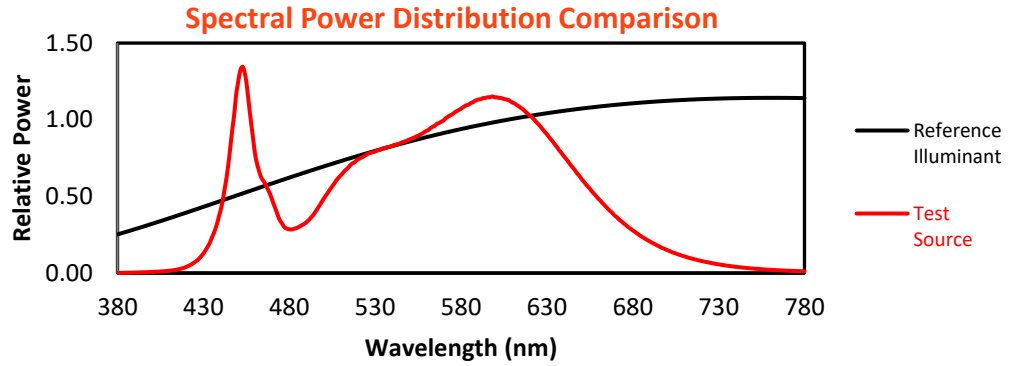
Melanopic Lumens: NR

M/P: 3.35

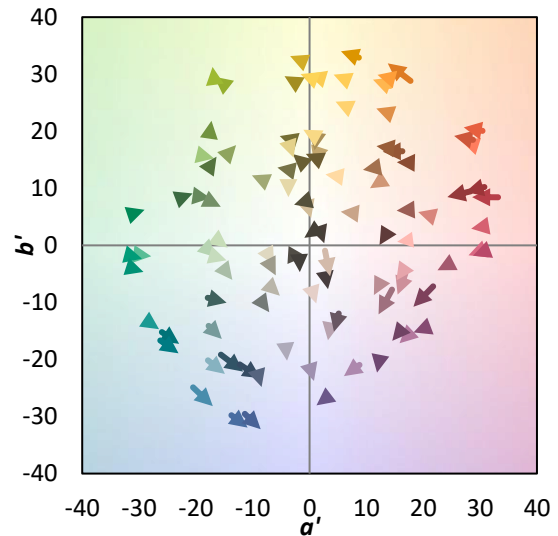
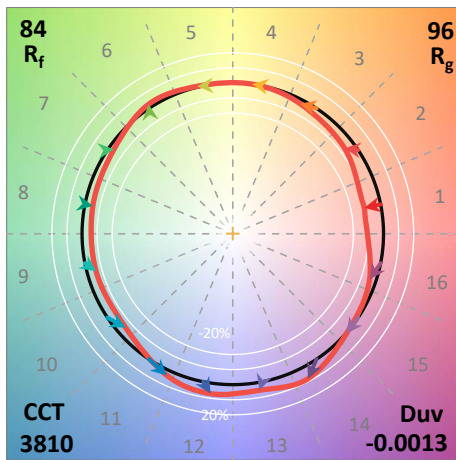
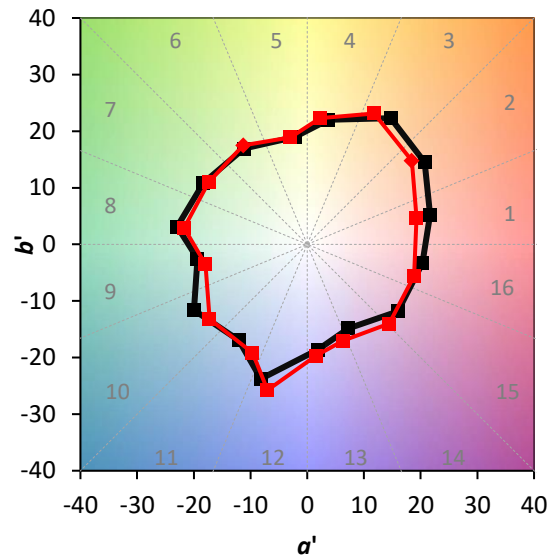
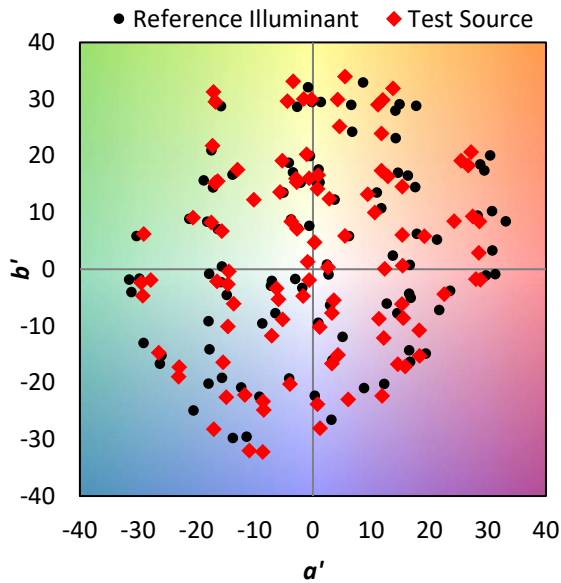
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359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

Summary

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

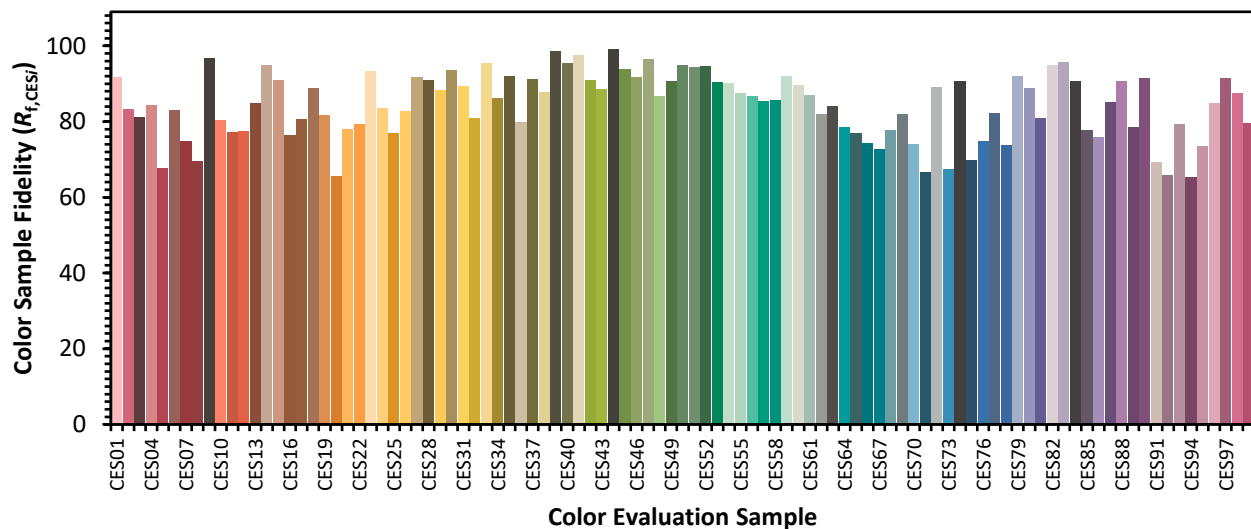


Color Vector Graphics

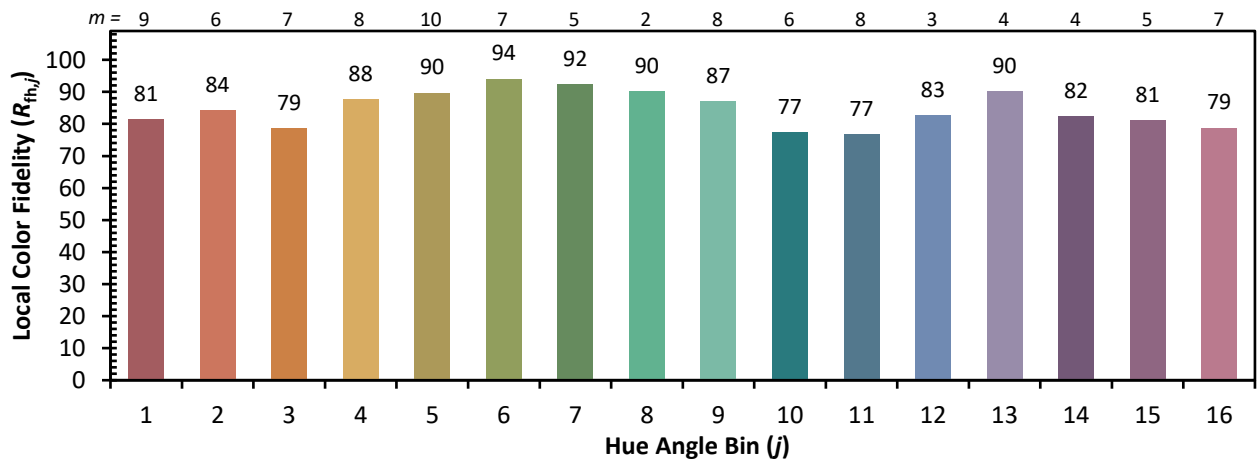
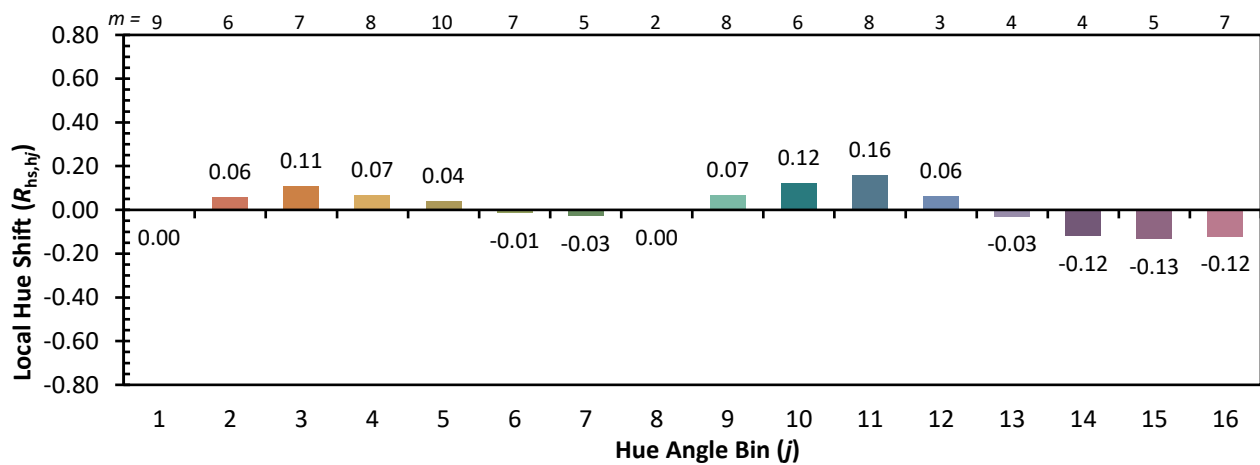
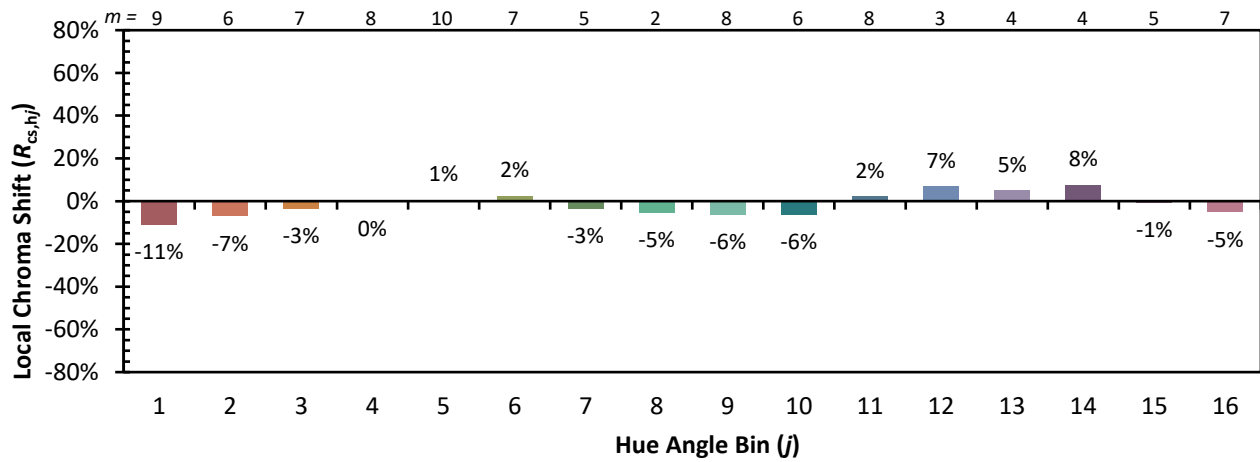


Individual Sample Fidelity Index ($R_{f,i}$)

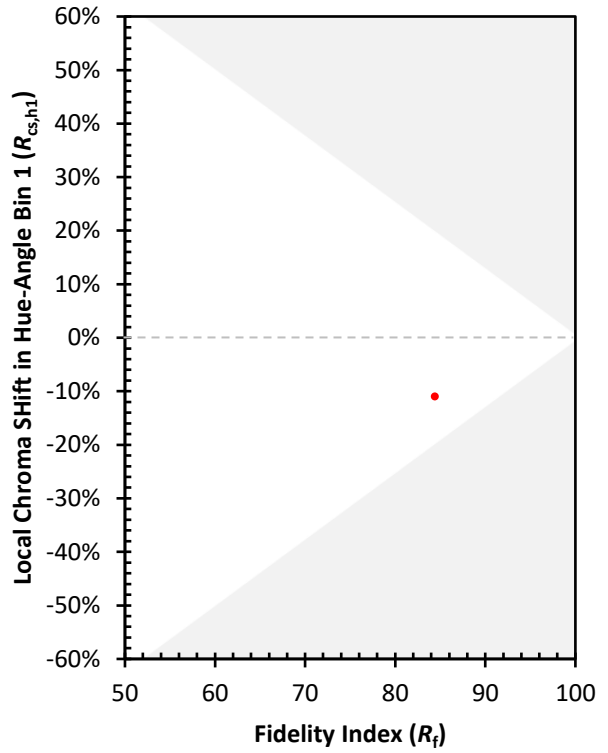
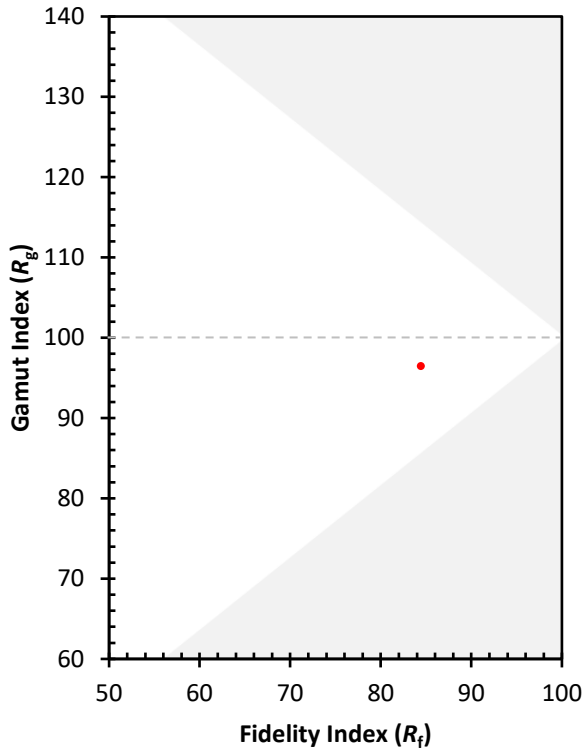
CES01 = 86	CES26 = 83	CES51 = 94	CES76 = 75
CES02 = 62	CES27 = 92	CES52 = 95	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 90	CES78 = 74
CES04 = 70	CES29 = 88	CES54 = 90	CES79 = 92
CES05 = 48	CES30 = 94	CES55 = 88	CES80 = 89
CES06 = 51	CES31 = 89	CES56 = 87	CES81 = 81
CES07 = 41	CES32 = 81	CES57 = 86	CES82 = 95
CES08 = 40	CES33 = 95	CES58 = 86	CES83 = 96
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 91
CES10 = 75	CES35 = 92	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 80	CES61 = 87	CES86 = 76
CES12 = 63	CES37 = 91	CES62 = 82	CES87 = 85
CES13 = 43	CES38 = 88	CES63 = 84	CES88 = 91
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 78
CES15 = 71	CES40 = 96	CES65 = 77	CES90 = 92
CES16 = 47	CES41 = 98	CES66 = 74	CES91 = 69
CES17 = 49	CES42 = 91	CES67 = 73	CES92 = 66
CES18 = 56	CES43 = 89	CES68 = 78	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 65
CES20 = 65	CES45 = 94	CES70 = 74	CES95 = 74
CES21 = 86	CES46 = 92	CES71 = 67	CES96 = 85
CES22 = 78	CES47 = 97	CES72 = 89	CES97 = 91
CES23 = 91	CES48 = 87	CES73 = 68	CES98 = 87
CES24 = 90	CES49 = 91	CES74 = 91	CES99 = 80
CES25 = 71	CES50 = 95	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)