

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: P1449892

Luminaire Tested: **TWC60_T2_36W_5000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449892
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_5000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 36W
5000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5854 lumens
Efficiency: N/A
Efficacy: 161.7 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

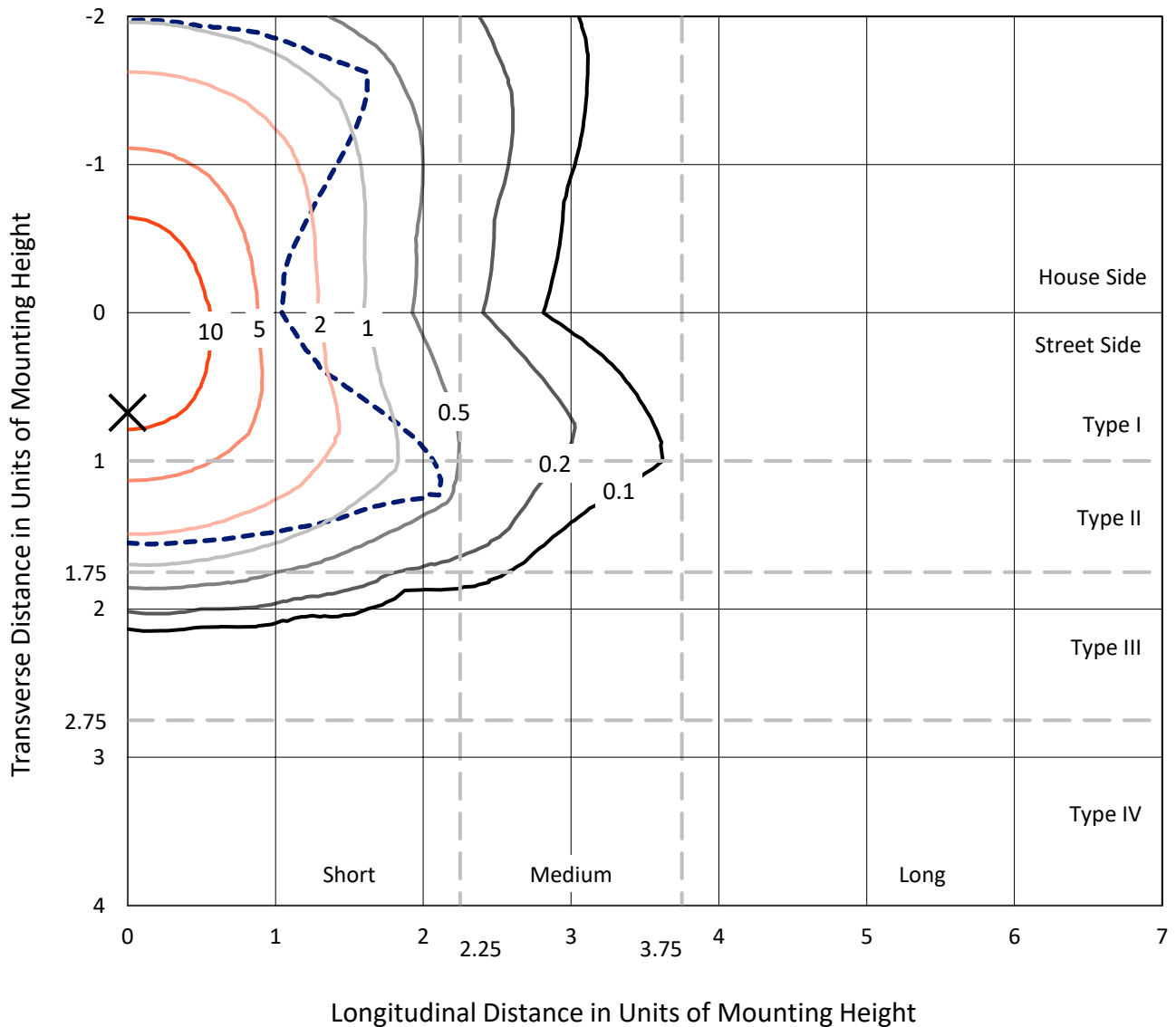
Input Watts (W): 36.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

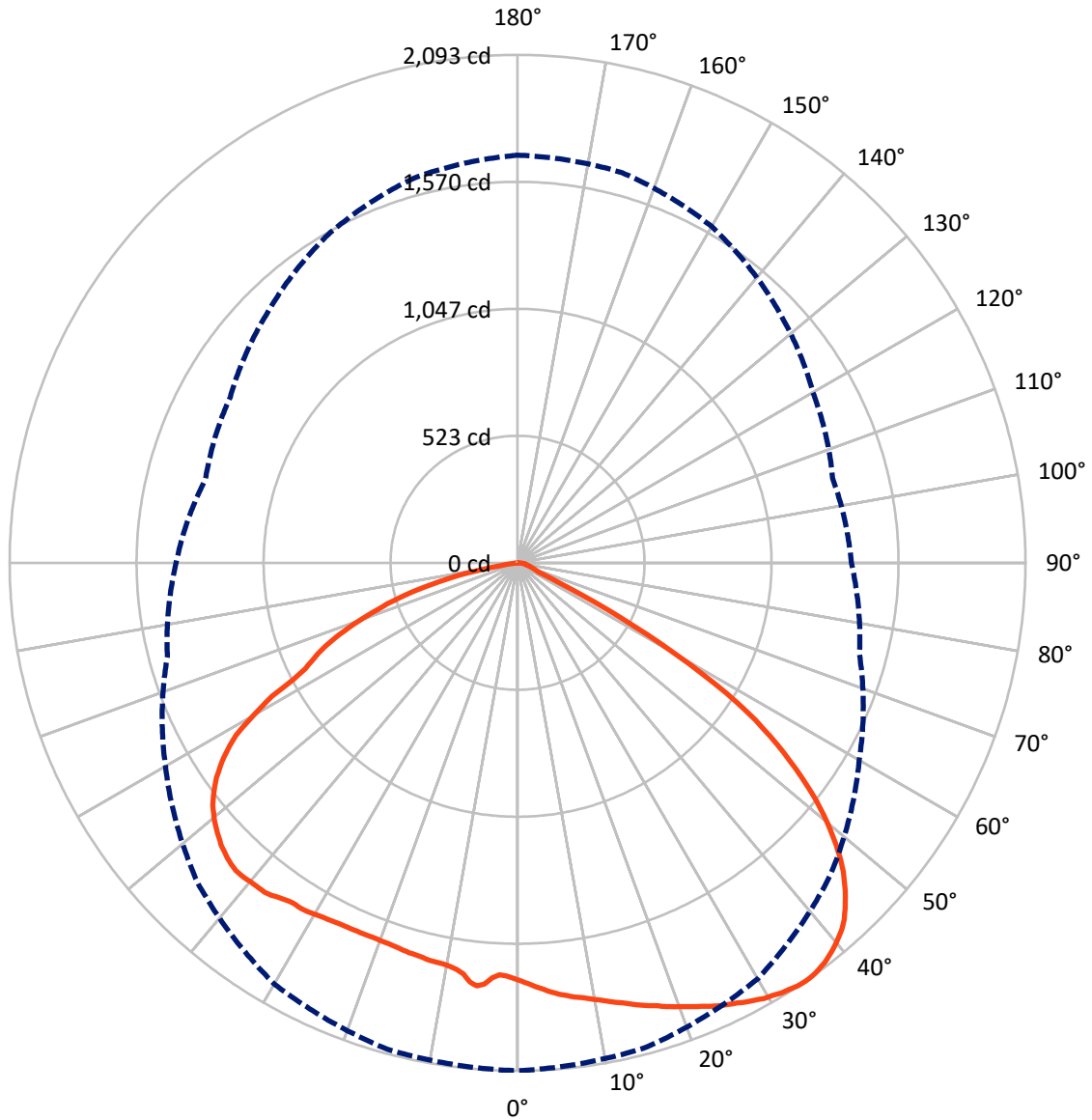
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 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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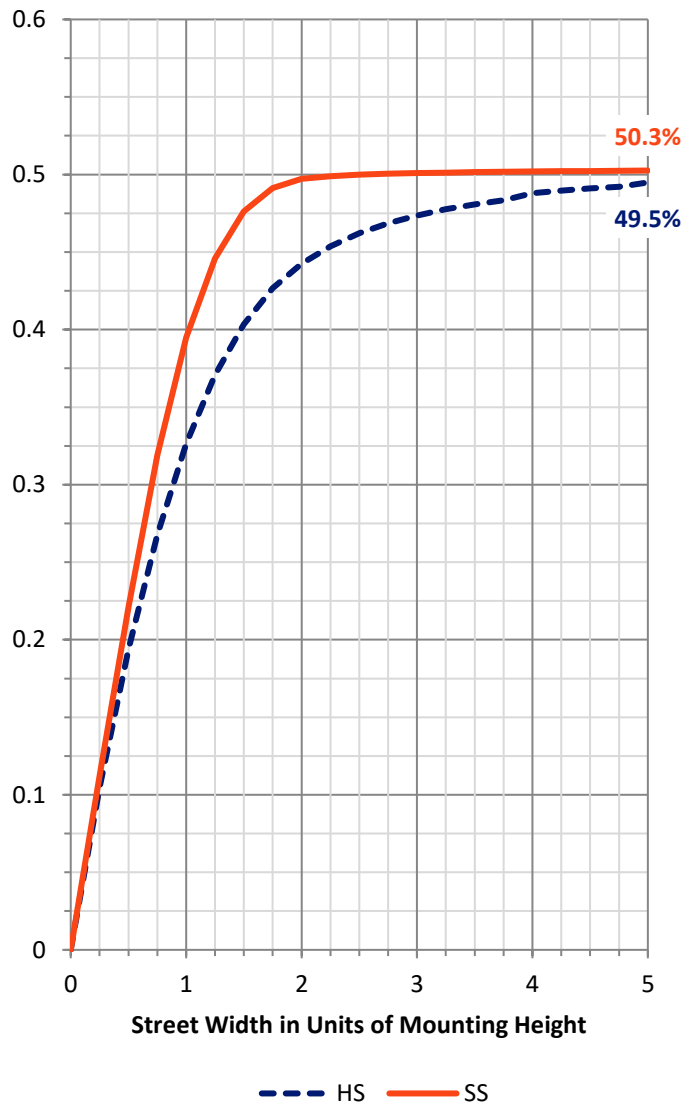
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2912.6	0.0	2912.6
	% Fixture	49.8	0.0	49.8
Street Side	Lumens	2941.4	0.0	2941.4
	% Fixture	50.2	0.0	50.2
Total	Lumens	5854.0	0.0	5854.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	2.8
10°-20°	488.8	8.4
20°-30°	784.3	13.4
30°-40°	1026.4	17.5
40°-50°	1169.5	20.0
50°-60°	1113.6	19.0
60°-70°	722.9	12.3
70°-80°	320.4	5.5
80°-90°	62.2	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°	5854.0	100.0
0°-180°	5854.0	100.0

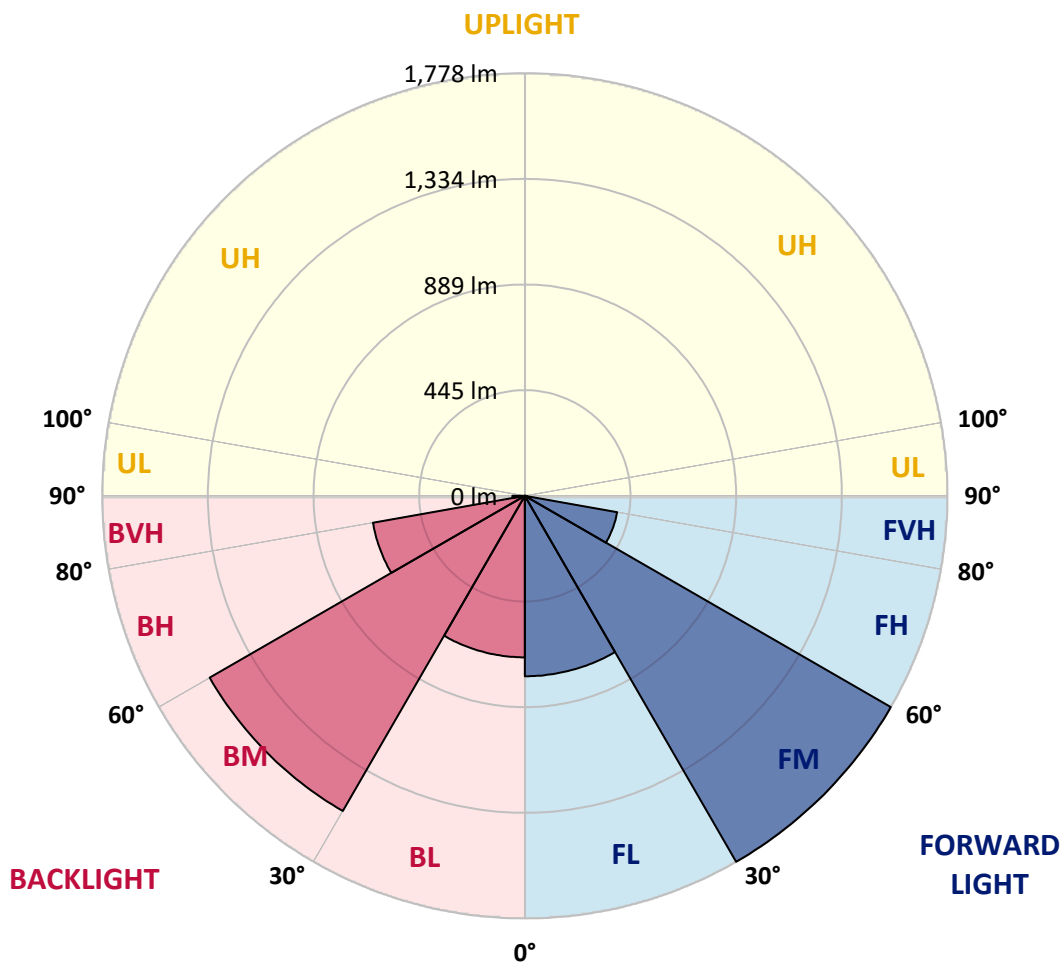


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.2	13.0			
FM (30°-60°)	1778.2	30.4			
FH (60°-80°)	394.4	6.7			G0/660
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	679.7	11.6	B2/1000		
BM (30°-60°)	1531.3	26.2	B2/2500		
BH (60°-80°)	649.0	11.1	B2/1000		G2/1000
BVH (80°-90°)	52.6	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°	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0
1°	1735.0	1734.0	1734.6	1730.4	1727.2	1725.9	1724.4	1721.1	1718.2	1716.1	1714.4
2°	1749.8	1747.0	1743.9	1739.1	1733.1	1727.4	1722.8	1716.9	1712.0	1709.6	1706.5
3°	1761.4	1760.1	1754.5	1746.9	1738.9	1727.9	1720.8	1712.2	1705.3	1700.7	1698.3
4°	1774.7	1770.9	1764.8	1755.1	1741.8	1728.3	1717.4	1707.2	1699.3	1698.7	1705.5
5°	1785.7	1782.1	1773.7	1762.2	1745.4	1729.0	1715.4	1702.1	1694.8	1707.0	1727.8
6°	1795.2	1790.7	1782.3	1768.3	1749.0	1727.0	1708.1	1693.8	1696.5	1727.2	1746.9
7°	1804.5	1798.6	1787.1	1772.3	1750.5	1726.6	1704.5	1688.8	1706.6	1743.1	1749.4
8°	1812.5	1806.7	1794.8	1775.5	1752.9	1725.3	1699.4	1684.5	1719.9	1744.8	1727.1
9°	1822.4	1815.9	1799.4	1781.0	1752.3	1722.1	1692.8	1680.5	1732.4	1731.3	1701.1
10°	1831.8	1823.0	1807.4	1783.5	1753.8	1717.3	1686.4	1682.7	1731.8	1703.3	1689.2
11°	1842.9	1834.3	1812.5	1786.1	1751.6	1714.9	1680.4	1687.7	1724.4	1683.2	1680.6
12°	1854.6	1844.9	1819.9	1790.5	1752.0	1710.9	1670.6	1692.9	1700.4	1673.0	1674.3
13°	1865.0	1854.4	1827.8	1792.0	1751.4	1705.4	1661.8	1696.4	1677.1	1663.9	1670.0
14°	1878.4	1865.9	1836.1	1795.4	1750.1	1699.6	1653.5	1698.6	1659.0	1656.2	1667.0
15°	1891.8	1878.6	1844.0	1799.1	1746.9	1692.7	1643.9	1691.6	1645.6	1649.8	1659.5
16°	1903.0	1889.4	1854.7	1802.0	1747.2	1688.4	1634.6	1679.3	1635.4	1642.8	1654.7
17°	1914.3	1900.9	1862.0	1807.8	1746.4	1682.5	1625.7	1659.9	1623.4	1635.4	1650.6
18°	1928.3	1910.4	1870.1	1812.2	1745.3	1675.8	1617.9	1633.5	1614.3	1626.2	1646.5
19°	1941.0	1922.8	1879.1	1816.8	1742.5	1667.6	1609.5	1609.5	1604.8	1619.5	1639.9
20°	1952.5	1931.7	1885.3	1819.6	1742.4	1661.8	1603.4	1589.1	1593.1	1611.2	1633.3
21°	1965.6	1943.6	1894.6	1822.0	1737.8	1655.7	1600.1	1573.6	1579.9	1602.1	1629.7
22°	1979.0	1953.6	1899.8	1824.8	1733.4	1648.5	1596.4	1558.3	1566.6	1594.2	1625.7
23°	1992.7	1967.2	1906.5	1825.3	1728.3	1638.2	1592.5	1543.0	1555.5	1586.0	1619.0
24°	2005.9	1978.6	1913.6	1827.0	1724.1	1629.2	1586.5	1529.2	1543.1	1578.6	1615.2
25°	2016.8	1989.3	1921.4	1826.0	1717.7	1614.7	1578.7	1515.4	1530.8	1570.4	1613.5
26°	2027.2	2000.2	1928.6	1825.1	1709.1	1600.9	1565.5	1496.6	1515.8	1560.3	1610.4
27°	2040.3	2010.2	1938.5	1826.6	1702.3	1588.1	1549.7	1480.8	1502.4	1552.3	1606.5
28°	2050.4	2019.4	1943.4	1823.6	1692.7	1572.2	1527.9	1462.0	1489.4	1545.4	1605.4
29°	2062.9	2030.9	1950.7	1824.2	1681.8	1557.0	1505.1	1443.7	1477.3	1536.5	1604.6
30°	2069.5	2041.4	1954.9	1822.5	1672.4	1538.0	1476.7	1424.9	1463.2	1528.8	1601.5
31°	2079.0	2048.2	1963.0	1824.4	1661.4	1519.5	1450.2	1406.1	1447.8	1522.0	1601.3
32°	2084.7	2056.4	1967.2	1823.4	1649.1	1500.9	1424.0	1385.4	1434.8	1514.7	1599.6
33°	2091.0	2060.7	1974.1	1822.3	1637.5	1480.0	1398.1	1365.1	1419.0	1507.9	1600.6
34°	2093.3	2065.4	1979.2	1822.1	1626.0	1458.7	1375.3	1344.1	1405.6	1501.3	1600.2
35°	2092.0	2066.3	1984.4	1821.2	1614.6	1438.2	1350.4	1323.2	1388.8	1493.4	1598.6
36°	2085.3	2065.5	1984.4	1818.0	1602.8	1414.9	1325.3	1302.2	1374.3	1488.7	1591.5
37°	2078.2	2058.8	1987.5	1818.8	1591.2	1391.8	1299.4	1280.7	1359.4	1479.9	1590.9
38°	2065.9	2050.1	1985.3	1820.1	1581.7	1370.1	1273.7	1259.4	1345.6	1470.5	1591.4
39°	2051.2	2039.4	1979.9	1819.7	1571.5	1346.9	1246.9	1239.4	1330.8	1458.6	1594.8
40°	2035.2	2024.6	1975.2	1820.5	1562.0	1323.1	1220.1	1219.4	1316.3	1450.3	1598.7
41°	2017.3	2007.9	1965.5	1820.5	1553.1	1301.5	1193.3	1199.4	1301.0	1447.6	1597.2
42°	1992.7	1987.5	1953.9	1819.5	1544.1	1278.7	1167.0	1176.4	1283.8	1443.1	1596.5
43°	1961.1	1963.8	1938.0	1818.6	1536.9	1257.3	1137.6	1153.4	1263.5	1433.7	1596.3
44°	1927.4	1934.3	1919.9	1816.9	1529.8	1237.1	1107.3	1130.7	1249.1	1423.3	1597.4



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	1890.5	1902.9	1900.7	1812.0	1523.4	1217.6	1077.4	1106.0	1234.7	1412.4	1597.3
46°	1851.0	1866.2	1876.2	1805.9	1517.7	1199.0	1048.9	1081.9	1220.3	1409.1	1593.5
47°	1803.2	1825.9	1851.5	1796.1	1514.1	1179.4	1016.9	1057.6	1204.4	1404.2	1584.8
48°	1751.6	1780.5	1818.7	1786.6	1508.5	1157.2	986.7	1031.2	1185.6	1397.1	1574.7
49°	1696.4	1729.0	1783.0	1770.0	1504.6	1133.9	954.7	1002.5	1167.1	1388.1	1563.2
50°	1636.2	1670.4	1743.8	1752.9	1501.9	1108.5	923.5	971.3	1152.6	1378.2	1549.9
51°	1570.3	1612.2	1699.4	1734.4	1498.7	1082.6	891.5	941.0	1136.9	1365.7	1535.5
52°	1500.7	1545.2	1650.4	1713.8	1497.2	1055.4	858.4	915.2	1117.7	1354.5	1521.9
53°	1425.4	1475.4	1594.1	1686.8	1493.5	1023.6	826.8	890.7	1097.0	1344.2	1506.2
54°	1347.5	1400.2	1530.3	1655.5	1488.9	996.2	795.5	860.7	1075.4	1331.9	1489.3
55°	1264.9	1320.3	1462.6	1618.4	1485.4	968.1	761.4	830.0	1051.6	1318.0	1470.9
56°	1176.3	1235.9	1389.9	1578.5	1479.5	940.7	728.1	801.7	1031.9	1301.8	1450.8
57°	1076.0	1144.3	1309.8	1532.5	1470.5	914.3	695.0	773.7	1009.2	1285.3	1428.6
58°	955.6	1044.5	1225.3	1476.7	1456.2	888.0	660.6	744.4	987.6	1268.5	1403.2
59°	820.1	926.0	1134.2	1414.3	1440.3	862.1	626.5	712.7	964.1	1251.5	1373.2
60°	679.8	789.7	1035.4	1341.9	1419.0	836.1	591.1	680.3	940.0	1234.4	1339.7
61°	547.7	649.2	926.5	1260.9	1396.1	812.0	557.2	647.9	915.5	1217.3	1299.4
62°	415.7	517.4	795.7	1165.3	1367.6	791.2	525.6	617.4	892.5	1194.0	1238.8
63°	283.7	385.8	659.3	1062.7	1334.0	772.5	491.6	585.0	870.9	1168.5	1178.3
64°	183.9	254.1	523.3	956.0	1293.8	757.2	458.1	554.9	848.0	1139.6	1116.5
65°	120.9	158.7	387.3	830.9	1247.1	746.7	426.1	525.1	824.5	1110.1	1011.6
66°	93.0	104.5	251.3	691.9	1191.1	741.8	394.5	495.4	799.2	1070.5	935.4
67°	84.4	82.0	153.6	549.1	1122.3	739.2	364.3	465.6	774.4	1006.8	890.7
68°	78.5	74.6	97.2	406.2	1037.2	737.8	333.8	436.9	745.2	927.9	853.4
69°	72.6	68.7	76.1	263.4	941.7	735.5	304.5	408.9	716.4	866.6	816.6
70°	66.9	63.1	68.5	153.5	820.1	734.9	275.9	382.1	688.8	828.1	781.3
71°	61.6	58.3	62.9	90.6	659.6	738.8	248.3	355.0	657.7	790.8	748.7
72°	57.3	53.5	57.3	65.7	488.3	739.5	223.3	328.3	607.9	749.8	714.5
73°	53.0	48.8	51.7	58.3	316.9	722.1	198.5	301.0	561.1	707.3	678.3
74°	48.8	44.6	46.1	51.2	145.4	671.8	174.8	274.4	530.2	667.2	637.6
75°	44.4	40.1	40.9	44.1	80.7	607.4	152.5	249.5	504.2	629.3	595.0
76°	40.7	36.0	34.9	39.3	68.0	538.1	130.2	224.6	475.7	592.4	543.7
77°	37.9	32.8	30.3	35.5	56.1	468.8	108.0	201.2	447.4	558.1	484.6
78°	36.1	30.2	26.5	31.3	44.1	399.6	89.4	173.0	421.3	525.0	431.2
79°	34.7	28.5	23.8	26.0	40.0	304.8	72.6	150.9	393.5	493.2	381.7
80°	32.7	27.1	21.7	21.1	40.0	230.3	57.6	128.7	366.2	452.0	343.3
81°	30.5	25.3	20.0	17.9	37.2	161.1	45.0	106.6	340.3	408.9	303.9
82°	27.9	23.3	18.5	15.7	31.8	104.8	34.2	89.5	312.1	365.0	216.6
83°	23.1	20.2	16.9	13.7	26.3	61.7	24.8	73.4	284.1	331.4	129.3
84°	18.2	16.6	14.3	11.9	18.1	46.1	18.9	57.6	245.5	301.0	43.6
85°	13.1	12.3	10.7	10.1	10.7	30.6	13.1	43.5	197.7	240.5	25.1
86°	9.1	9.3	7.8	7.5	6.9	15.1	7.3	30.3	158.2	180.0	6.9
87°	6.2	6.3	5.4	5.2	4.6	8.3	4.2	20.5	118.7	119.5	3.4
88°	3.3	3.4	2.9	2.8	2.4	5.5	1.9	10.7	79.2	59.0	1.2
89°	0.5	0.5	0.4	0.5	0.5	2.9	0.6	1.2	39.7	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: P1449892
 CATALOG NUMBER: TWC60_T2_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: P1449892
CATALOG NUMBER: TWC60_T2_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: P1449892
 CATALOG NUMBER: TWC60_T2_36W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0	1724.0
1°	1712.8	1712.6	1714.0	1712.8	1715.4	1717.4	1719.6	1724.6	1727.4	1729.1	1731.4
2°	1702.6	1703.5	1702.9	1704.1	1710.0	1712.9	1717.1	1723.1	1730.3	1734.3	1739.9
3°	1697.6	1699.6	1696.8	1697.2	1699.7	1707.2	1711.9	1720.7	1729.8	1739.1	1749.6
4°	1713.7	1713.3	1707.9	1699.0	1693.5	1699.6	1707.4	1719.6	1733.5	1744.3	1757.2
5°	1739.5	1740.8	1732.7	1718.2	1696.5	1692.5	1702.6	1716.0	1732.7	1749.9	1764.8
6°	1751.7	1752.0	1751.6	1736.7	1710.6	1688.3	1696.5	1711.9	1732.4	1753.9	1770.5
7°	1741.8	1738.5	1743.6	1745.4	1727.7	1689.9	1690.3	1708.7	1732.7	1756.8	1776.7
8°	1711.3	1708.0	1713.8	1734.1	1737.8	1696.6	1683.2	1704.7	1733.1	1758.9	1780.8
9°	1694.6	1694.6	1694.8	1704.4	1735.0	1708.7	1674.7	1697.9	1729.2	1759.6	1785.3
10°	1687.1	1686.6	1686.2	1685.8	1714.0	1717.1	1669.4	1692.7	1727.9	1761.4	1790.1
11°	1680.8	1681.5	1679.7	1677.1	1689.3	1718.4	1664.6	1686.6	1723.0	1760.5	1792.2
12°	1679.6	1680.0	1675.4	1668.0	1671.6	1710.9	1661.8	1677.5	1720.7	1760.5	1796.9
13°	1675.8	1677.5	1673.3	1662.8	1661.3	1692.2	1663.6	1669.1	1716.5	1760.3	1801.3
14°	1671.7	1673.2	1666.3	1658.6	1650.6	1668.0	1667.8	1662.2	1712.9	1760.5	1805.6
15°	1667.6	1668.9	1662.4	1653.1	1641.0	1647.1	1667.4	1655.0	1707.5	1762.2	1811.8
16°	1664.7	1667.6	1660.1	1645.0	1633.9	1631.0	1668.8	1643.2	1702.6	1763.5	1816.7
17°	1661.9	1664.3	1656.4	1640.0	1624.0	1619.5	1662.1	1634.4	1696.8	1762.9	1822.9
18°	1657.3	1659.8	1650.4	1633.2	1614.1	1606.2	1650.4	1623.4	1694.0	1762.9	1829.3
19°	1652.6	1658.1	1647.5	1628.5	1603.3	1594.0	1634.1	1614.8	1688.6	1761.8	1835.0
20°	1651.7	1656.8	1643.0	1620.5	1596.4	1582.3	1612.2	1602.1	1682.9	1761.2	1836.4
21°	1650.3	1655.0	1640.6	1613.7	1587.5	1570.7	1587.5	1592.0	1678.6	1761.4	1840.8
22°	1648.5	1654.6	1638.9	1608.2	1576.9	1556.4	1563.1	1581.1	1670.6	1757.7	1843.8
23°	1648.7	1656.3	1637.2	1603.9	1566.4	1539.3	1542.3	1571.9	1662.7	1755.3	1847.5
24°	1647.2	1656.3	1636.5	1596.1	1556.0	1524.9	1524.0	1562.3	1651.8	1750.3	1850.5
25°	1646.4	1657.0	1635.9	1592.9	1547.5	1512.5	1505.9	1556.8	1640.2	1745.0	1851.8
26°	1648.5	1658.1	1633.5	1587.8	1537.7	1496.6	1488.6	1551.6	1629.2	1739.1	1854.0
27°	1647.8	1659.2	1634.1	1584.7	1527.9	1480.1	1470.2	1544.1	1614.7	1734.8	1855.5
28°	1649.2	1662.5	1634.1	1579.5	1517.1	1463.3	1454.2	1536.6	1599.7	1725.5	1856.6
29°	1652.9	1665.7	1634.8	1573.8	1508.1	1449.5	1436.5	1526.0	1584.0	1718.8	1859.0
30°	1653.6	1669.3	1637.4	1570.2	1497.9	1432.6	1416.0	1509.1	1566.6	1709.5	1862.4
31°	1660.5	1674.9	1638.4	1568.8	1488.4	1417.7	1394.5	1490.1	1548.3	1701.7	1864.1
32°	1663.1	1679.6	1643.0	1564.5	1477.7	1400.3	1374.8	1466.4	1531.7	1694.6	1862.7
33°	1664.6	1680.8	1643.7	1563.4	1465.3	1383.8	1351.7	1437.7	1512.8	1684.5	1866.5
34°	1664.4	1679.8	1642.6	1561.6	1457.4	1367.1	1331.7	1407.0	1494.1	1676.0	1864.7
35°	1664.7	1685.9	1640.9	1558.8	1445.7	1351.2	1309.8	1375.9	1474.5	1667.2	1867.3
36°	1671.3	1694.0	1642.3	1553.3	1436.1	1334.2	1286.8	1344.2	1455.1	1662.0	1868.6
37°	1679.9	1704.5	1649.0	1545.8	1426.7	1317.1	1263.0	1317.1	1435.7	1652.4	1871.3
38°	1686.0	1711.0	1656.0	1544.1	1416.6	1299.2	1240.9	1288.4	1417.2	1647.7	1871.4
39°	1688.7	1712.0	1660.7	1543.0	1404.0	1280.3	1218.8	1261.2	1397.9	1640.7	1872.1
40°	1690.1	1713.6	1659.8	1540.4	1389.9	1263.1	1196.6	1232.7	1377.1	1634.2	1870.6
41°	1692.5	1716.4	1659.2	1537.8	1378.9	1246.3	1169.4	1206.2	1356.8	1626.9	1872.5
42°	1694.8	1719.6	1664.6	1533.9	1369.2	1229.6	1142.8	1178.5	1336.5	1623.1	1868.4
43°	1697.4	1719.2	1665.7	1533.7	1361.8	1212.8	1115.0	1149.3	1317.1	1620.7	1865.2
44°	1693.7	1713.5	1665.4	1533.6	1353.6	1191.0	1088.2	1120.0	1295.5	1619.5	1857.7



REPORT NUMBER: P1449892

CATALOG NUMBER: TWC60_T2_36W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1686.8	1706.1	1659.8	1531.9	1339.1	1167.4	1061.2	1090.4	1273.9	1618.0	1848.4
46°	1676.5	1695.3	1650.3	1529.4	1326.5	1144.1	1034.4	1060.7	1254.2	1615.3	1836.1
47°	1666.0	1685.5	1638.9	1524.0	1315.2	1121.8	1007.9	1029.2	1233.3	1612.3	1820.8
48°	1654.3	1670.8	1627.8	1516.8	1305.2	1104.3	980.6	999.4	1214.2	1610.7	1801.9
49°	1640.4	1657.0	1614.0	1507.1	1292.9	1083.0	953.0	966.6	1194.3	1608.3	1783.7
50°	1625.5	1641.5	1601.5	1496.1	1279.6	1060.9	924.5	934.2	1173.7	1604.8	1761.4
51°	1608.9	1623.6	1586.8	1480.6	1264.4	1039.4	895.6	903.1	1155.0	1600.9	1735.9
52°	1592.5	1605.0	1569.7	1467.6	1250.4	1018.5	864.0	870.9	1135.6	1596.4	1702.6
53°	1570.4	1579.2	1551.1	1451.7	1239.5	999.6	831.8	838.9	1118.0	1588.7	1667.4
54°	1546.8	1552.9	1531.7	1436.2	1228.6	977.2	799.7	805.5	1102.8	1577.3	1625.3
55°	1519.8	1523.3	1506.0	1418.7	1217.8	953.6	771.0	771.6	1088.2	1563.7	1578.9
56°	1489.0	1488.4	1478.2	1401.5	1203.2	926.2	740.5	737.2	1077.0	1543.2	1527.2
57°	1453.7	1451.5	1445.6	1380.2	1187.2	899.8	708.2	702.7	1069.4	1523.4	1465.2
58°	1414.3	1407.4	1409.2	1360.5	1172.2	872.3	675.9	668.3	1060.1	1499.0	1398.8
59°	1371.9	1361.8	1369.9	1336.2	1157.9	846.6	644.6	634.5	1052.6	1470.4	1321.2
60°	1325.4	1291.4	1326.6	1311.0	1138.8	820.4	613.7	601.6	1043.2	1438.3	1236.7
61°	1241.3	1221.0	1252.8	1279.7	1119.0	795.2	582.9	568.8	1034.0	1398.9	1144.3
62°	1157.2	1150.4	1179.0	1238.9	1098.1	768.3	551.0	536.0	1030.2	1355.2	1042.8
63°	1073.1	1040.9	1105.0	1198.0	1072.3	740.0	517.7	502.2	1026.0	1300.0	932.4
64°	987.5	976.4	1003.9	1156.3	1047.2	714.0	484.5	468.3	1024.1	1238.3	810.4
65°	941.7	938.9	943.8	1075.6	1018.2	687.0	451.5	436.7	1019.7	1164.5	672.6
66°	907.2	903.9	903.9	977.9	988.8	658.9	419.7	405.6	1017.1	1077.6	533.4
67°	872.6	864.9	871.6	909.4	954.8	630.9	388.5	374.4	1015.2	978.9	394.2
68°	832.3	819.6	837.5	864.4	912.5	602.1	357.8	341.2	1003.8	857.4	255.1
69°	788.6	769.0	798.0	821.0	848.5	572.2	327.8	309.1	978.9	716.1	153.3
70°	743.0	718.8	758.6	780.3	790.5	543.6	298.9	278.1	935.6	552.9	93.6
71°	691.2	661.9	712.8	742.6	755.5	514.7	272.3	247.3	872.6	388.9	69.7
72°	638.6	610.4	664.9	710.7	725.9	486.8	247.5	218.9	813.7	225.0	62.1
73°	588.4	562.2	613.6	680.9	690.9	456.4	221.9	191.7	765.7	123.0	56.1
74°	535.5	508.5	560.7	650.4	656.7	412.5	198.6	167.6	689.1	73.0	50.1
75°	483.4	453.9	507.2	618.6	622.1	376.6	176.2	143.9	600.7	62.3	44.2
76°	427.4	392.3	455.7	583.4	587.7	350.1	156.7	122.5	477.7	52.3	37.9
77°	370.5	333.5	402.3	538.9	552.0	324.6	137.3	104.7	353.5	42.2	32.5
78°	318.7	277.0	354.2	484.9	513.8	297.9	117.9	89.8	229.3	38.6	27.4
79°	262.6	208.4	304.1	427.0	476.8	273.0	101.5	77.2	128.1	36.8	22.9
80°	189.7	139.9	250.1	374.0	437.6	249.5	83.4	64.3	69.3	33.6	19.5
81°	116.7	71.9	164.6	336.8	395.0	225.5	67.7	52.4	56.3	27.4	17.3
82°	45.3	23.5	79.5	307.3	355.0	201.7	55.1	40.5	43.9	21.7	15.4
83°	33.2	18.6	56.1	215.8	310.5	177.2	43.2	28.6	31.5	15.7	13.7
84°	21.0	13.6	32.6	124.3	276.4	150.2	33.0	20.5	30.5	11.0	12.1
85°	9.0	8.6	9.4	32.9	244.2	123.3	24.0	14.3	26.5	8.6	10.0
86°	5.5	5.1	5.9	18.3	152.8	96.5	17.4	9.2	19.6	6.7	6.9
87°	2.6	2.5	2.7	3.6	62.5	72.0	10.7	6.3	11.6	4.5	4.3
88°	1.0	1.0	1.0	1.0	30.9	47.9	4.1	3.3	7.7	2.2	1.7
89°	0.2	0.2	0.2	0.3	0.4	23.8	0.6	0.4	4.0	0.4	0.5



REPORT NUMBER: P1449892
 CATALOG NUMBER: TWC60_T2_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: P1449892
 CATALOG NUMBER: TWC60_T2_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: P1449892
CATALOG NUMBER: TWC60_T2_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: P1449892
 CATALOG NUMBER: TWC60_T2_36W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1724.0	1724.0	1724.0
1°	1734.1	1735.4	1735.0
2°	1745.0	1746.7	1749.8
3°	1754.4	1759.3	1761.4
4°	1766.1	1771.1	1774.7
5°	1775.2	1781.7	1785.7
6°	1783.1	1791.7	1795.2
7°	1790.8	1802.4	1804.5
8°	1798.5	1810.8	1812.5
9°	1805.2	1817.9	1822.4
10°	1811.3	1825.7	1831.8
11°	1818.6	1836.5	1842.9
12°	1826.5	1848.8	1854.6
13°	1836.5	1859.4	1865.0
14°	1845.3	1872.9	1878.4
15°	1855.5	1883.0	1891.8
16°	1865.0	1895.2	1903.0
17°	1873.0	1904.3	1914.3
18°	1881.7	1917.4	1928.3
19°	1890.7	1929.0	1941.0
20°	1900.0	1940.1	1952.5
21°	1909.7	1950.7	1965.6
22°	1917.2	1965.0	1979.0
23°	1924.2	1977.1	1992.7
24°	1935.0	1989.0	2005.9
25°	1942.5	2002.8	2016.8
26°	1952.1	2012.5	2027.2
27°	1960.9	2021.0	2040.3
28°	1968.5	2033.2	2050.4
29°	1973.3	2044.7	2062.9
30°	1983.6	2053.7	2069.5
31°	1990.3	2061.4	2079.0
32°	1996.6	2068.1	2084.7
33°	2002.7	2072.6	2091.0
34°	2004.3	2075.0	2093.3
35°	2010.0	2075.4	2092.0
36°	2012.1	2072.6	2085.3
37°	2009.2	2066.6	2078.2
38°	2007.6	2057.9	2065.9
39°	2001.4	2043.3	2051.2
40°	1992.0	2027.3	2035.2
41°	1978.3	2010.9	2017.3
42°	1964.0	1987.6	1992.7
43°	1945.9	1963.7	1961.1
44°	1925.5	1933.0	1927.4



REPORT NUMBER: P1449892
 CATALOG NUMBER: TWC60_T2_36W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	1902.3	1896.4	1890.5
46°	1874.9	1857.6	1851.0
47°	1840.6	1815.7	1803.2
48°	1805.2	1766.7	1751.6
49°	1762.7	1710.9	1696.4
50°	1716.5	1653.5	1636.2
51°	1665.2	1592.8	1570.3
52°	1608.5	1524.6	1500.7
53°	1549.8	1450.8	1425.4
54°	1481.3	1375.1	1347.5
55°	1408.2	1294.2	1264.9
56°	1329.6	1205.6	1176.3
57°	1246.0	1112.6	1076.0
58°	1155.3	1004.0	955.6
59°	1060.4	876.1	820.1
60°	951.0	737.7	679.8
61°	827.2	592.4	547.7
62°	686.7	459.7	415.7
63°	551.1	327.3	283.7
64°	415.6	217.2	183.9
65°	280.1	136.7	120.9
66°	176.7	96.5	93.0
67°	109.4	82.1	84.4
68°	80.4	75.6	78.5
69°	71.0	70.0	72.6
70°	65.0	64.4	66.9
71°	59.8	59.6	61.6
72°	54.5	54.8	57.3
73°	49.1	50.0	53.0
74°	44.9	45.9	48.8
75°	39.9	41.5	44.4
76°	34.6	37.5	40.7
77°	30.1	34.4	37.9
78°	26.9	32.2	36.1
79°	24.4	30.6	34.7
80°	22.6	29.0	32.7
81°	21.0	27.1	30.5
82°	19.3	24.8	27.9
83°	17.4	21.2	23.1
84°	14.0	17.3	18.2
85°	11.0	12.8	13.1
86°	7.2	9.2	9.1
87°	4.9	6.3	6.2
88°	2.7	3.4	3.3
89°	0.5	0.4	0.5



REPORT NUMBER: P1449892
CATALOG NUMBER: TWC60_T2_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: P1449892
CATALOG NUMBER: TWC60_T2_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



REPORT NUMBER: P1449892
CATALOG NUMBER: TWC60_T2_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

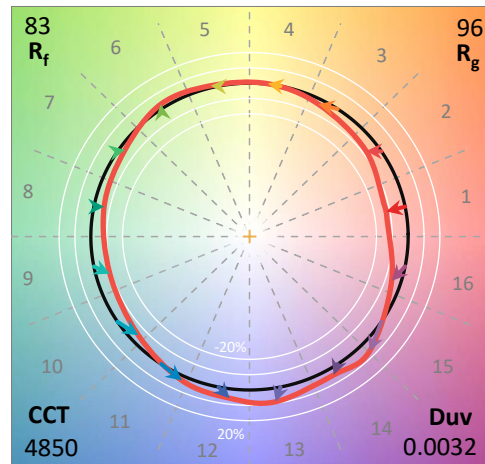
Test Information

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

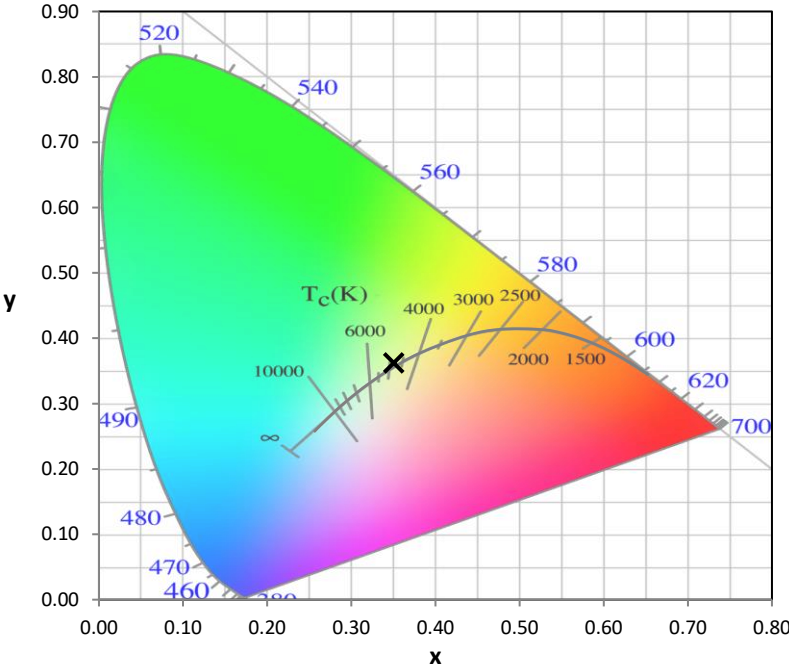
Stabilization Time: 25M
 Operation Time: 1H 25M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

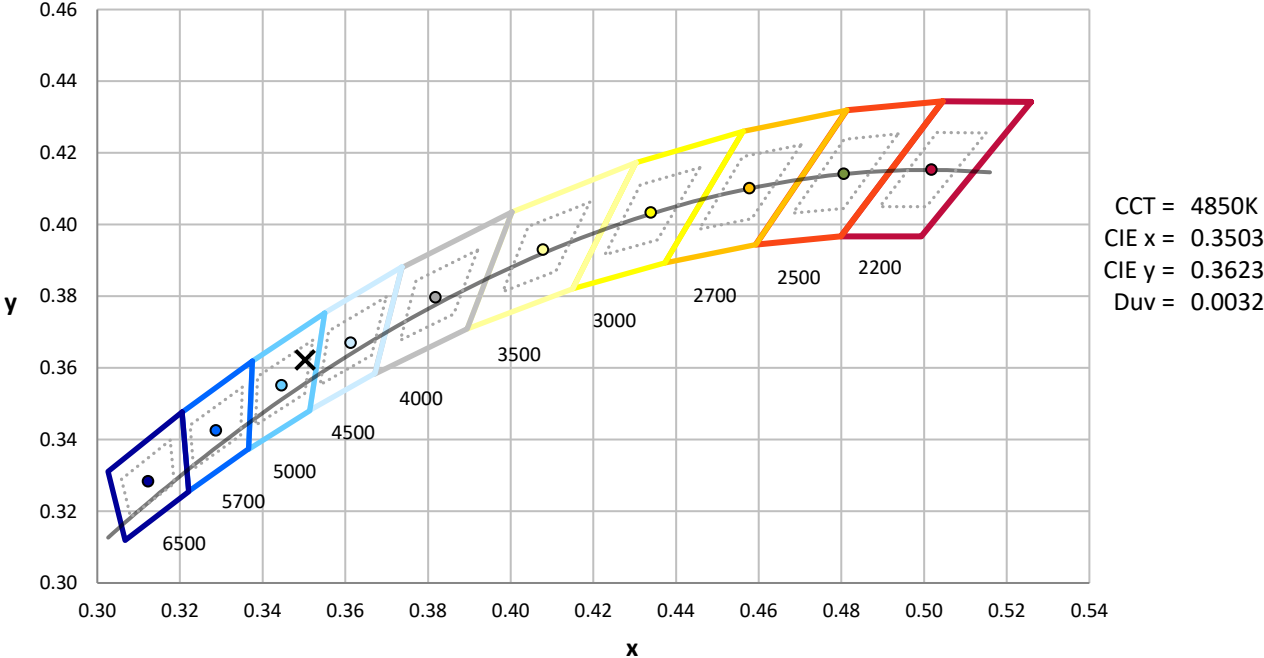
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



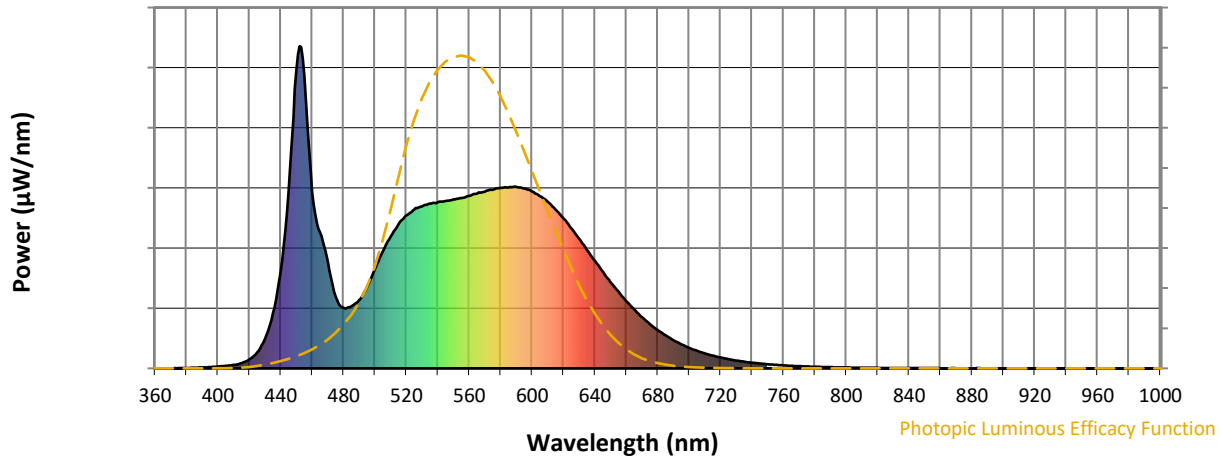
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

Photopic Flux vs. Wavelength

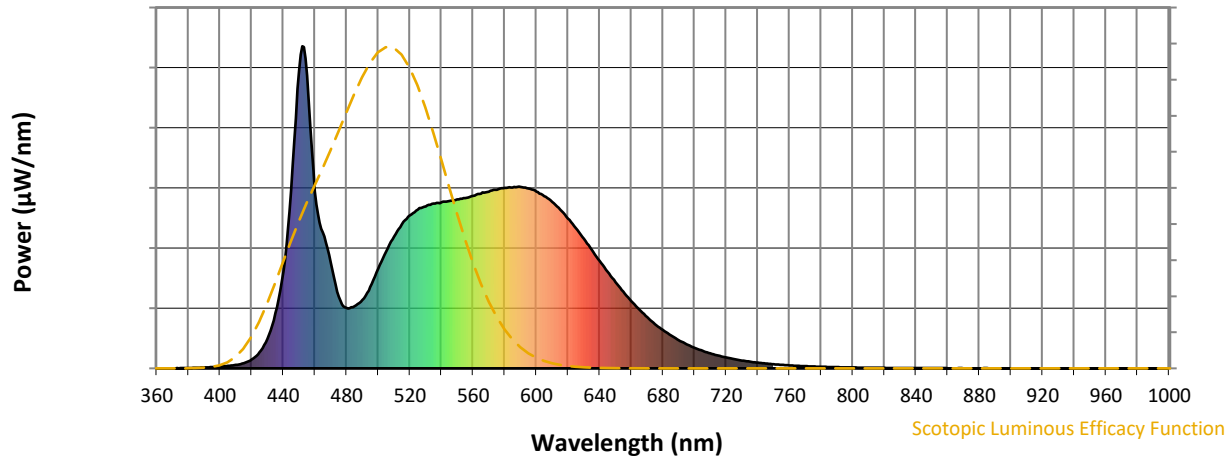


Photopic Lumens: NR

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



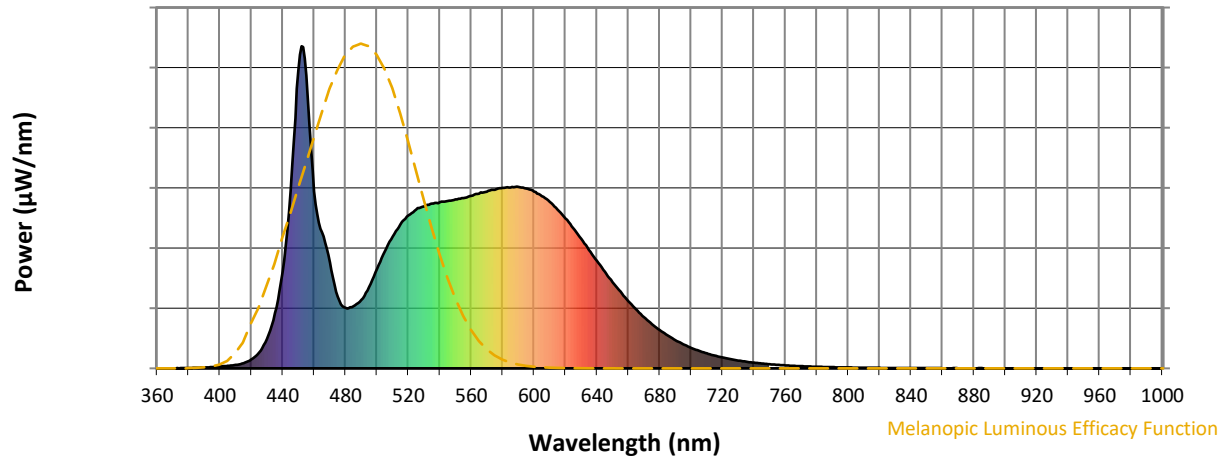
Scotopic Lumens: NR

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



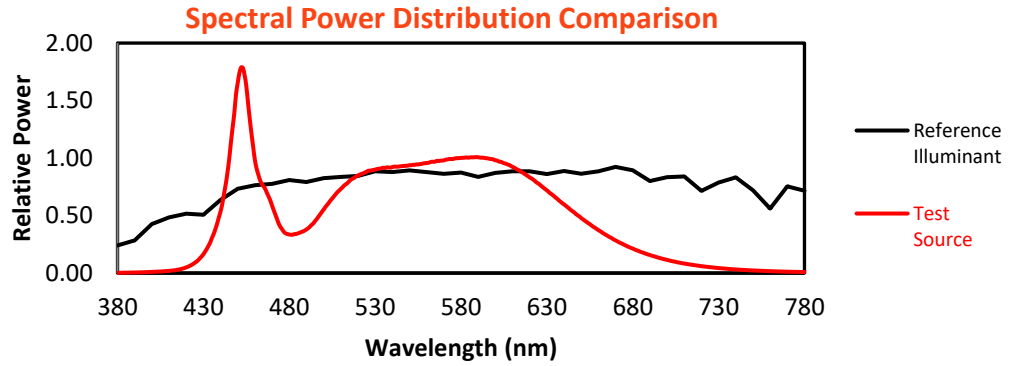
Melanopic Lumens: NR

M/P: 4

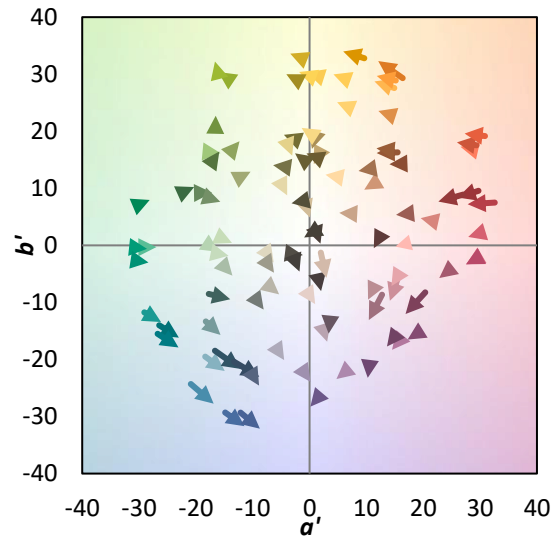
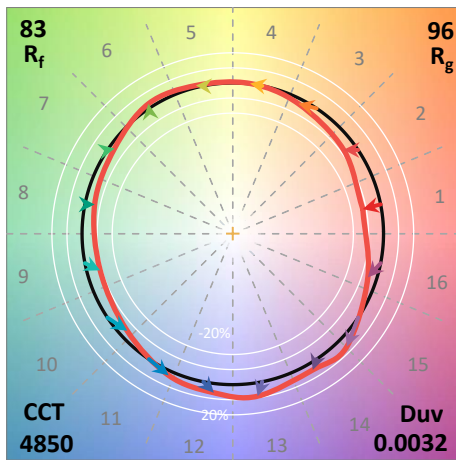
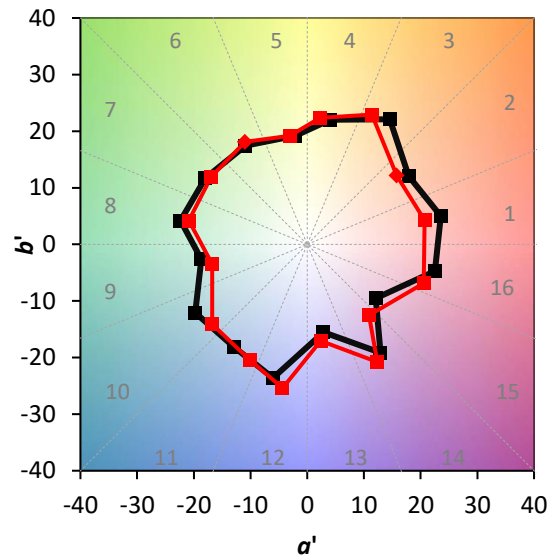
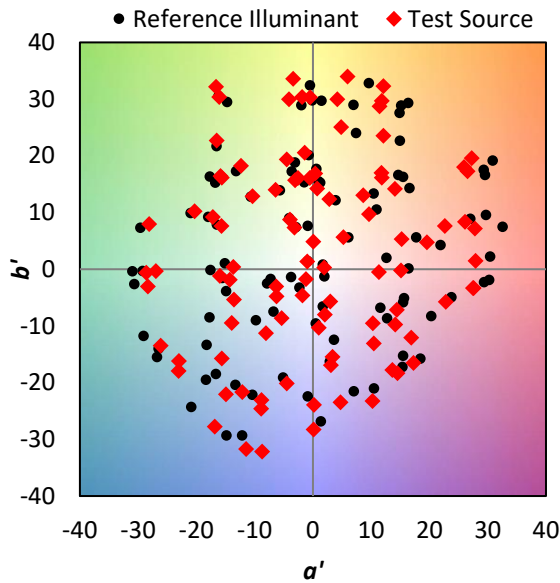
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309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

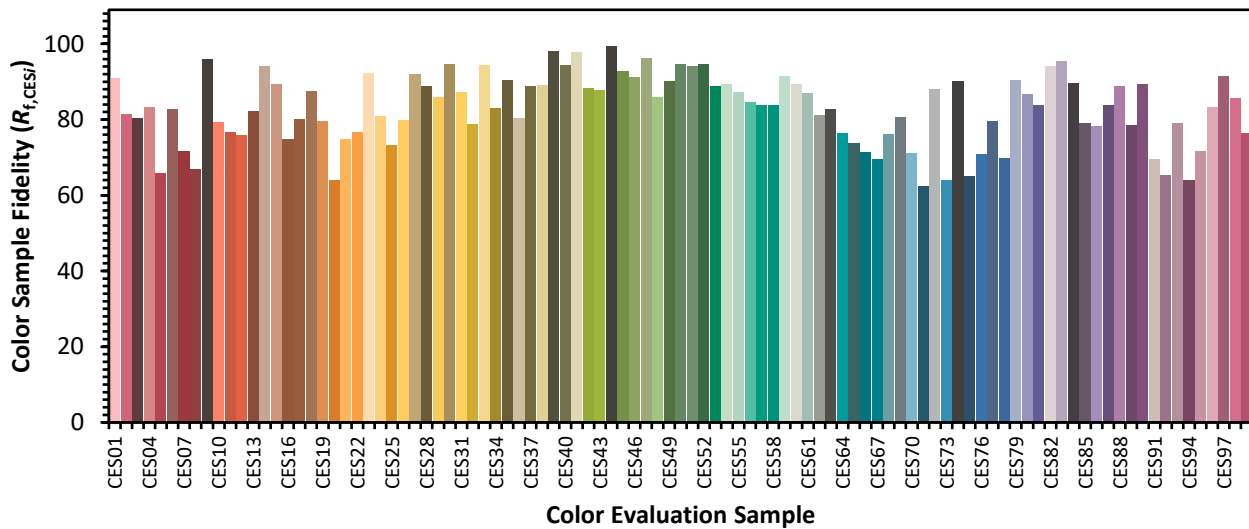


Color Vector Graphics

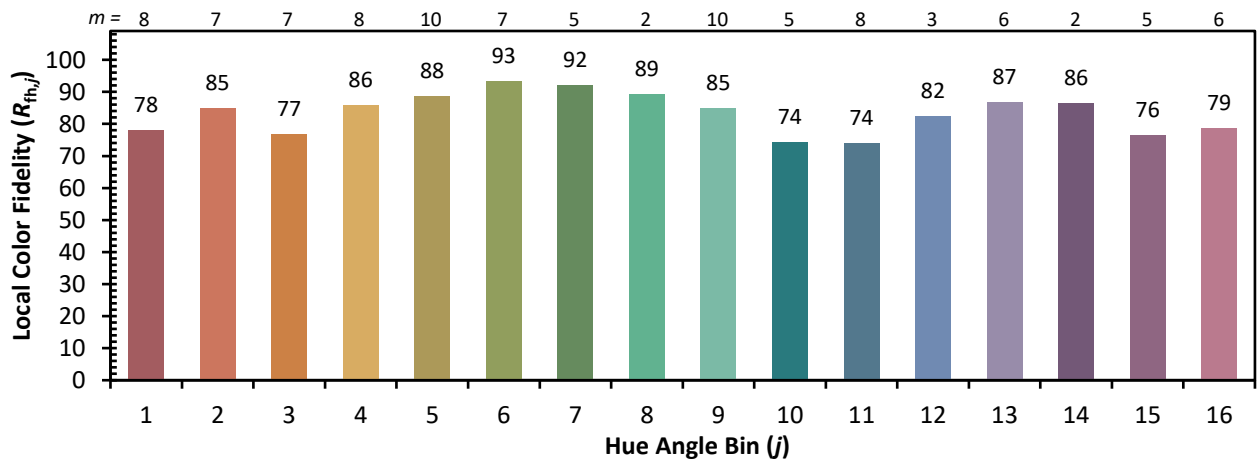
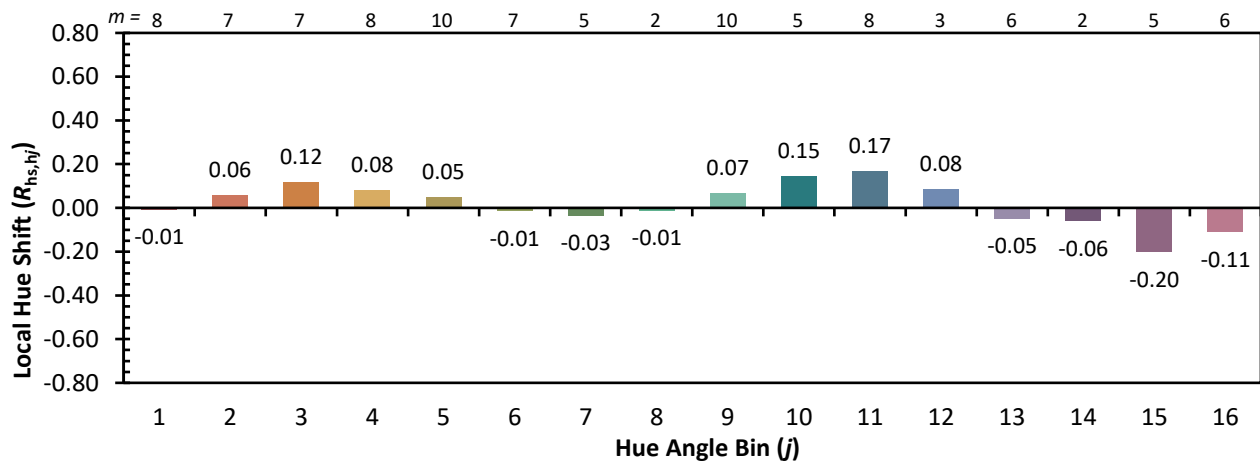
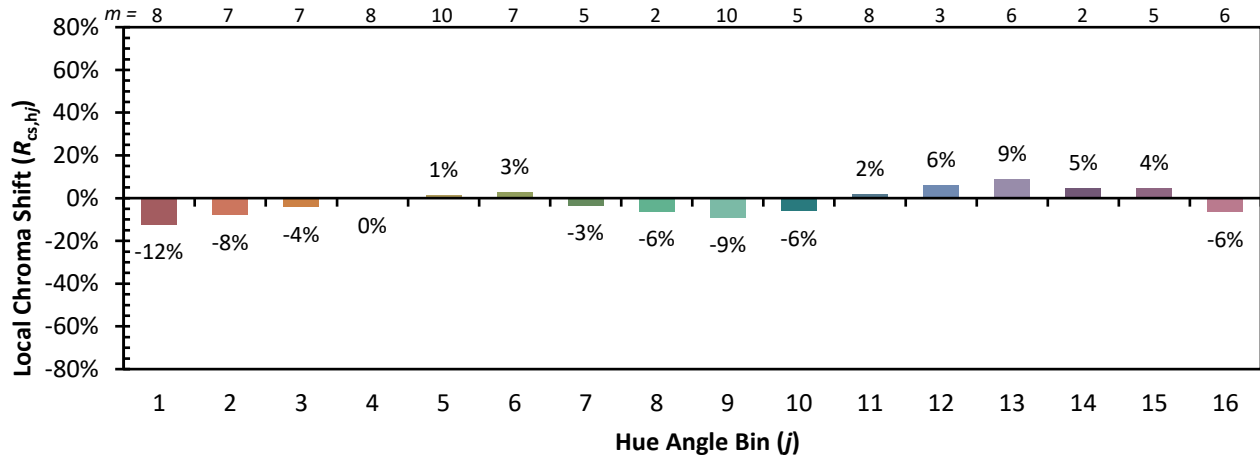


Individual Sample Fidelity Index ($R_{f,i}$)

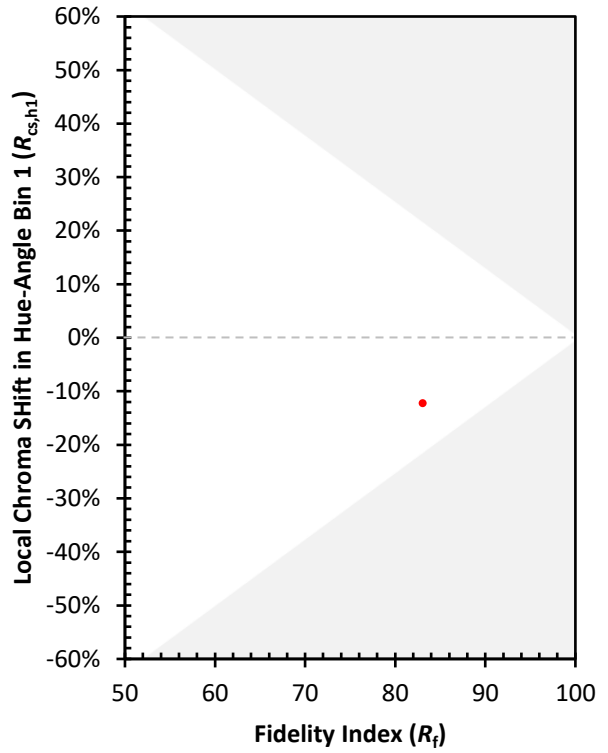
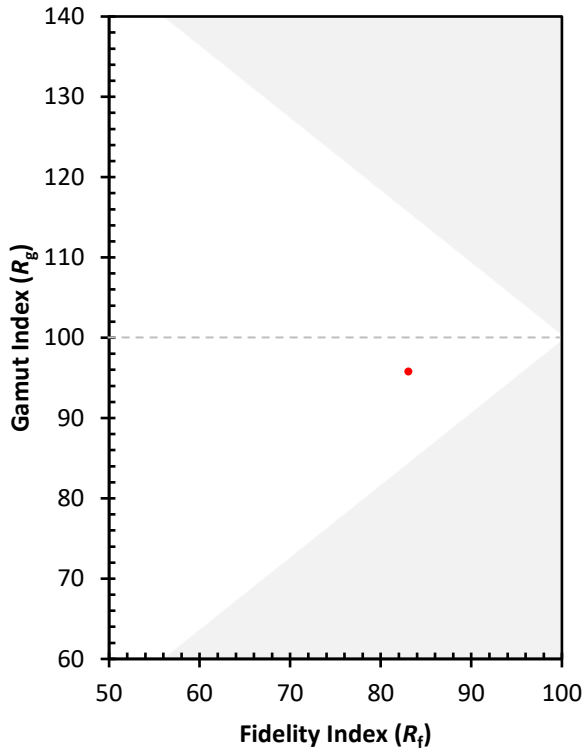
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82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