

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: P1449890

Luminaire Tested: **TWC60\_T2\_36W\_3000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449890  
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\_3000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 36W  
3000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5575 lumens  
Efficiency: N/A  
Efficacy: 154.4 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

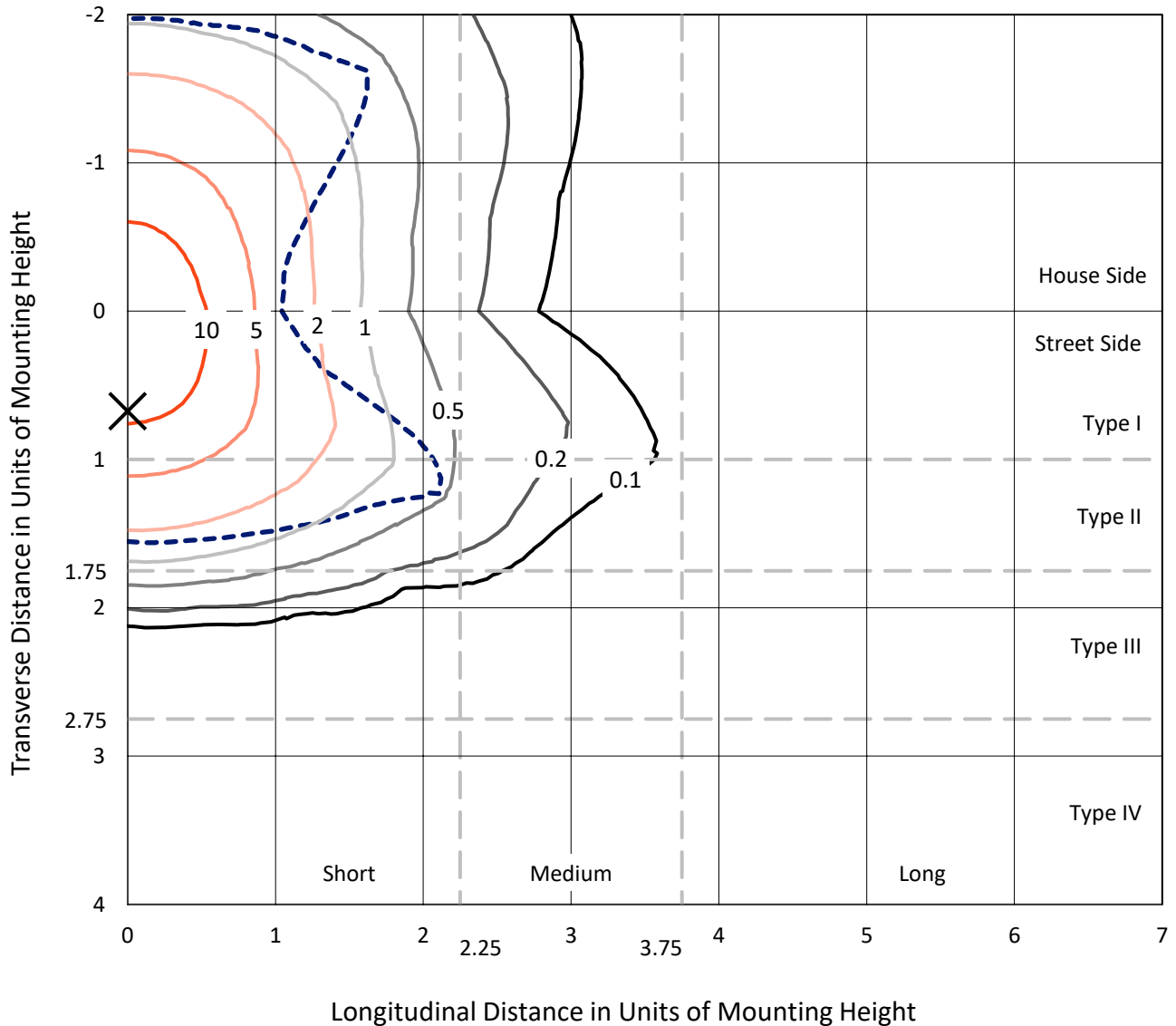
Input Watts (W): 36.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

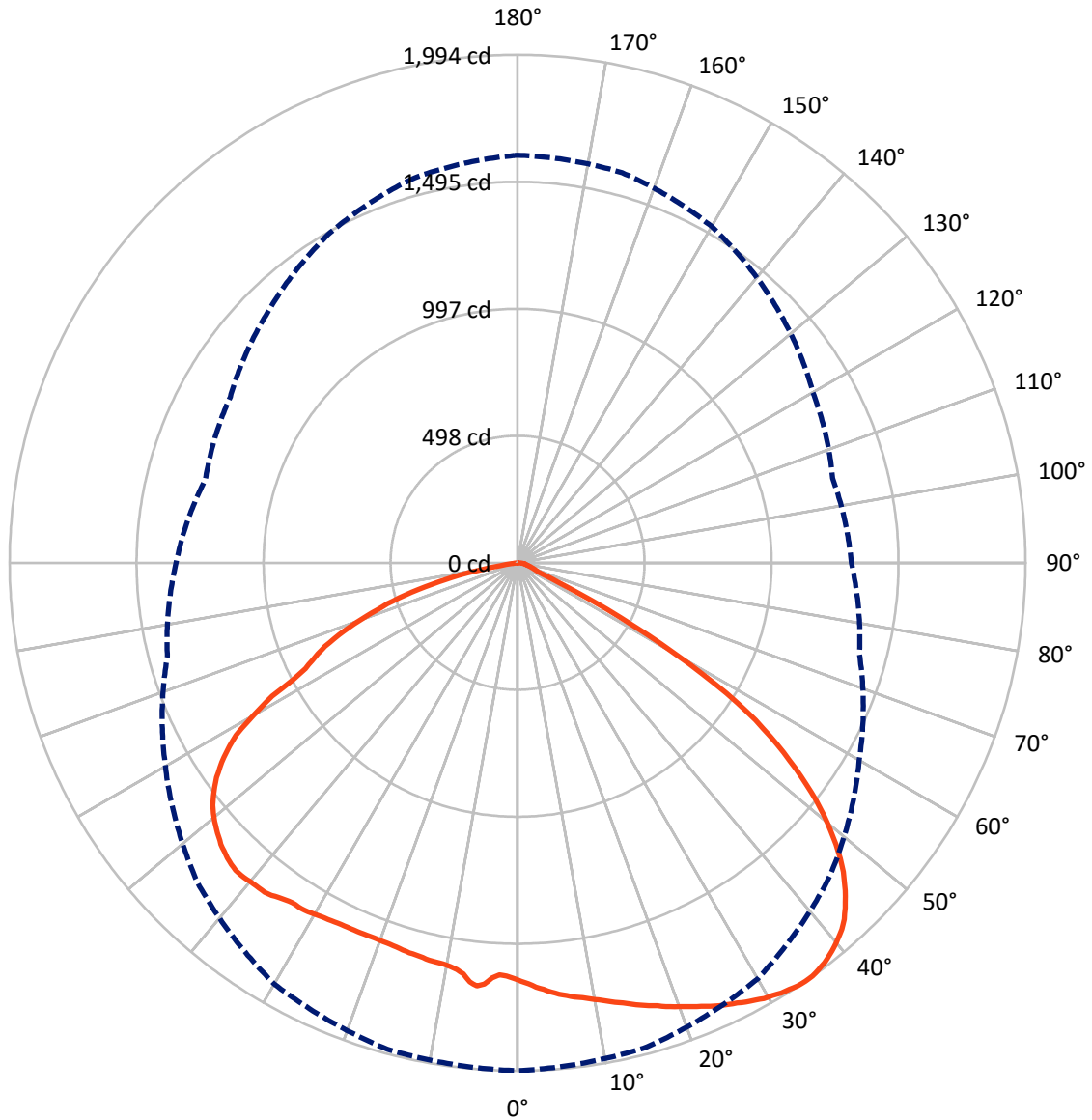
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 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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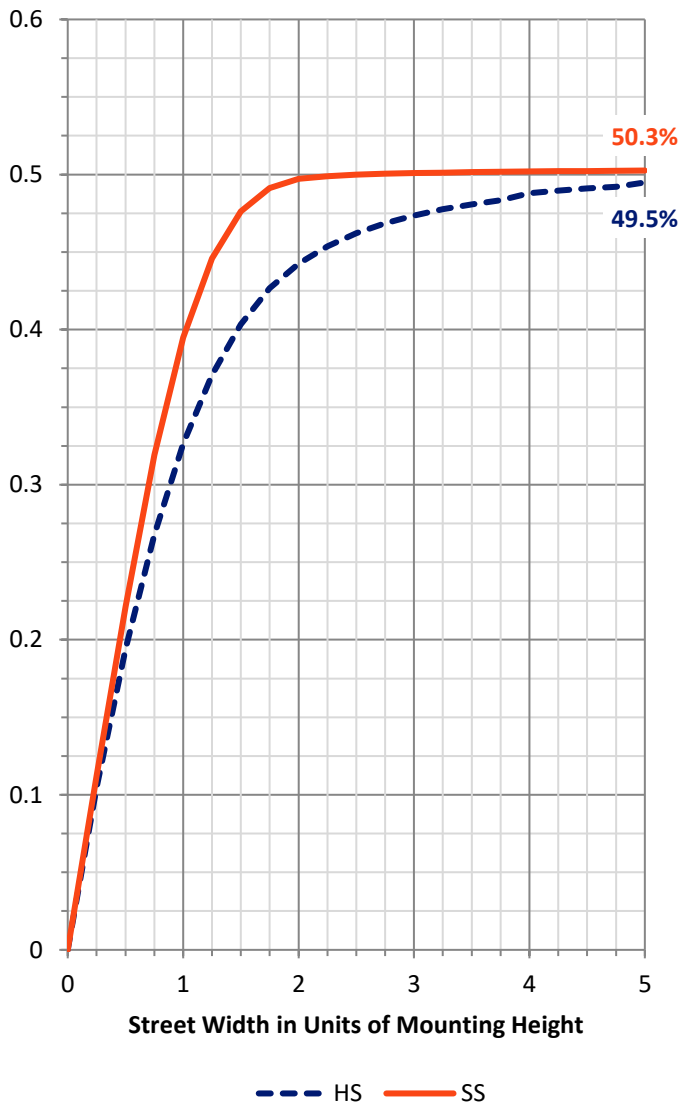
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2773.8	0.0	2773.8
	% Fixture	49.8	0.0	49.8
<b>Street Side</b>	Lumens	2801.2	0.0	2801.2
	% Fixture	50.2	0.0	50.2
<b>Total</b>	Lumens	5575.0	0.0	5575.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	2.8
10°-20°	465.5	8.4
20°-30°	746.9	13.4
30°-40°	977.4	17.5
40°-50°	1113.8	20.0
50°-60°	1060.6	19.0
60°-70°	688.5	12.3
70°-80°	305.2	5.5
80°-90°	59.2	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°	5575.0	100.0
0°-180°	5575.0	100.0



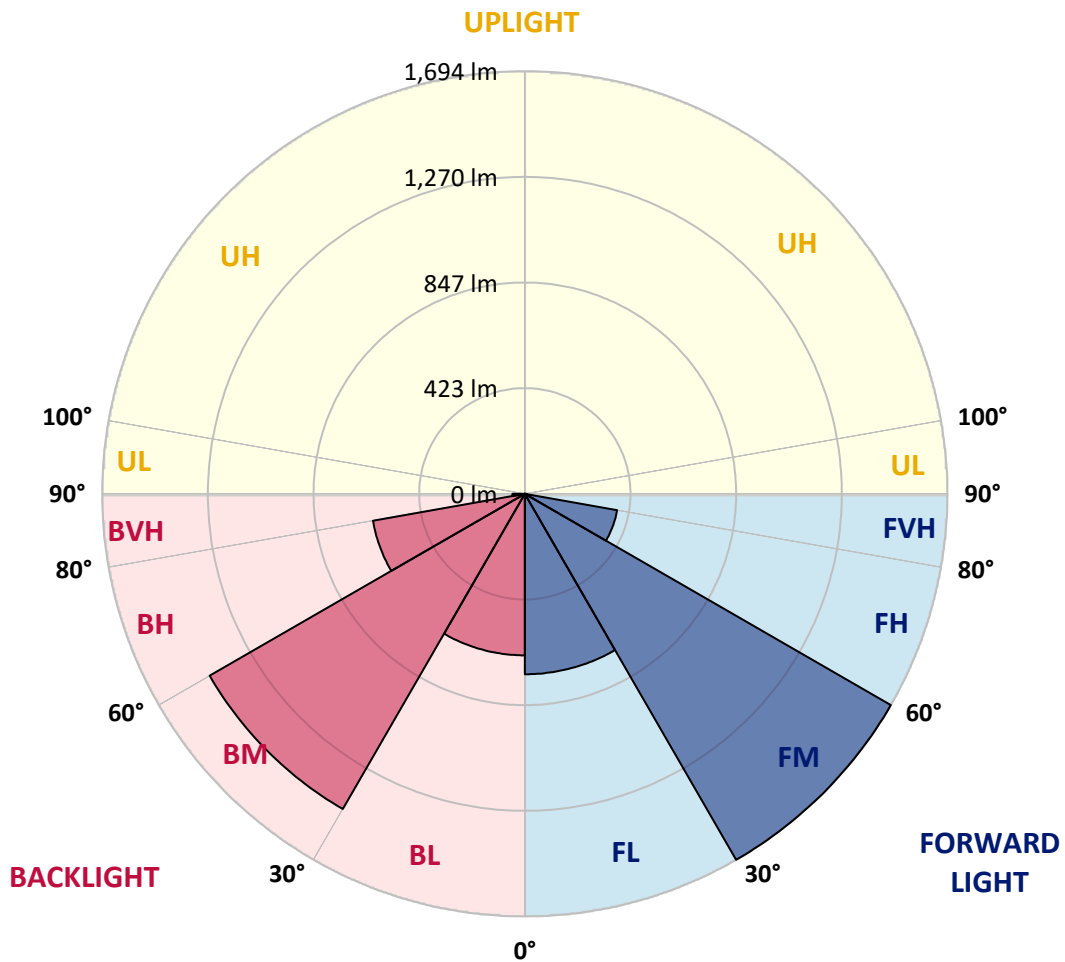
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.0	13.0			
FM (30°-60°)	1693.5	30.4			
FH (60°-80°)	375.6	6.7			G0/660
FVH (80°-90°)	9.1	0.2			G0/10
BL (0°-30°)	647.4	11.6	B2/1000		
BM (30°-60°)	1458.3	26.2	B2/2500		
BH (60°-80°)	618.1	11.1	B2/1000		G2/1000
BVH (80°-90°)	50.1	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°	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9
1°	1652.3	1651.3	1652.0	1647.9	1644.9	1643.6	1642.2	1639.1	1636.4	1634.3	1632.7
2°	1666.4	1663.7	1660.8	1656.2	1650.5	1645.1	1640.7	1635.1	1630.4	1628.1	1625.2
3°	1677.5	1676.2	1670.9	1663.6	1656.1	1645.5	1638.8	1630.6	1624.0	1619.6	1617.4
4°	1690.1	1686.5	1680.7	1671.4	1658.8	1646.0	1635.5	1625.8	1618.3	1617.8	1624.2
5°	1700.6	1697.1	1689.2	1678.2	1662.3	1646.6	1633.6	1621.0	1614.0	1625.6	1645.5
6°	1709.7	1705.4	1697.4	1684.0	1665.6	1644.7	1626.7	1613.1	1615.7	1644.9	1663.6
7°	1718.5	1712.9	1701.9	1687.8	1667.0	1644.3	1623.3	1608.3	1625.3	1660.0	1666.0
8°	1726.1	1720.6	1709.2	1690.9	1669.3	1643.0	1618.4	1604.3	1638.0	1661.6	1644.8
9°	1735.6	1729.4	1713.7	1696.1	1668.8	1640.0	1612.1	1600.4	1649.9	1648.8	1620.1
10°	1744.5	1736.1	1721.3	1698.5	1670.2	1635.5	1606.1	1602.5	1649.3	1622.1	1608.7
11°	1755.1	1746.9	1726.1	1701.0	1668.1	1633.1	1600.3	1607.3	1642.2	1603.0	1600.5
12°	1766.2	1756.9	1733.1	1705.1	1668.5	1629.4	1590.9	1612.2	1619.4	1593.3	1594.5
13°	1776.1	1766.0	1740.7	1706.6	1667.9	1624.1	1582.6	1615.5	1597.2	1584.6	1590.4
14°	1788.8	1776.9	1748.6	1709.8	1666.7	1618.6	1574.7	1617.6	1579.9	1577.3	1587.6
15°	1801.7	1789.0	1756.1	1713.4	1663.6	1612.0	1565.6	1610.9	1567.2	1571.2	1580.4
16°	1812.3	1799.3	1766.3	1716.2	1663.9	1607.9	1556.7	1599.2	1557.5	1564.5	1575.9
17°	1823.1	1810.3	1773.3	1721.6	1663.2	1602.3	1548.2	1580.8	1546.0	1557.5	1572.0
18°	1836.4	1819.3	1781.0	1725.8	1662.1	1596.0	1540.7	1555.6	1537.3	1548.7	1568.1
19°	1848.4	1831.2	1789.5	1730.2	1659.5	1588.1	1532.8	1532.8	1528.3	1542.3	1561.8
20°	1859.4	1839.7	1795.4	1732.9	1659.4	1582.6	1527.0	1513.4	1517.2	1534.4	1555.4
21°	1871.9	1851.0	1804.3	1735.2	1655.0	1576.8	1523.8	1498.6	1504.6	1525.8	1552.0
22°	1884.6	1860.5	1809.2	1737.8	1650.8	1569.9	1520.4	1484.1	1492.0	1518.2	1548.2
23°	1897.7	1873.4	1815.6	1738.3	1646.0	1560.1	1516.6	1469.4	1481.4	1510.4	1541.9
24°	1910.3	1884.3	1822.4	1740.0	1641.9	1551.6	1510.9	1456.4	1469.6	1503.3	1538.2
25°	1920.6	1894.5	1829.8	1739.0	1635.8	1537.8	1503.4	1443.2	1457.8	1495.6	1536.6
26°	1930.6	1904.9	1836.7	1738.2	1627.6	1524.6	1490.9	1425.3	1443.6	1486.0	1533.6
27°	1943.1	1914.4	1846.2	1739.6	1621.2	1512.4	1475.8	1410.2	1430.8	1478.3	1529.9
28°	1952.7	1923.1	1850.8	1736.7	1612.0	1497.2	1455.1	1392.3	1418.4	1471.7	1528.9
29°	1964.6	1934.1	1857.7	1737.3	1601.7	1482.7	1433.4	1374.9	1406.9	1463.3	1528.2
30°	1970.8	1944.1	1861.7	1735.7	1592.7	1464.7	1406.4	1357.0	1393.5	1456.0	1525.2
31°	1979.9	1950.6	1869.5	1737.5	1582.2	1447.1	1381.1	1339.1	1378.8	1449.5	1524.9
32°	1985.3	1958.4	1873.5	1736.5	1570.6	1429.4	1356.1	1319.4	1366.4	1442.5	1523.3
33°	1991.3	1962.5	1880.1	1735.4	1559.5	1409.4	1331.5	1300.1	1351.3	1436.0	1524.3
34°	1993.5	1966.9	1884.9	1735.2	1548.5	1389.2	1309.8	1280.1	1338.6	1429.8	1523.9
35°	1992.3	1967.9	1889.8	1734.4	1537.6	1369.7	1286.1	1260.1	1322.6	1422.2	1522.4
36°	1985.9	1967.0	1889.8	1731.3	1526.4	1347.4	1262.1	1240.2	1308.8	1417.8	1515.7
37°	1979.1	1960.7	1892.8	1732.1	1515.4	1325.4	1237.5	1219.7	1294.6	1409.4	1515.0
38°	1967.5	1952.4	1890.6	1733.3	1506.4	1304.8	1213.0	1199.3	1281.4	1400.4	1515.5
39°	1953.5	1942.2	1885.6	1733.0	1496.6	1282.7	1187.5	1180.3	1267.4	1389.1	1518.8
40°	1938.2	1928.1	1881.1	1733.8	1487.5	1260.1	1162.0	1161.3	1253.6	1381.2	1522.5
41°	1921.2	1912.2	1871.8	1733.8	1479.0	1239.4	1136.4	1142.3	1239.0	1378.7	1521.0
42°	1897.7	1892.8	1860.8	1732.8	1470.5	1217.8	1111.4	1120.3	1222.6	1374.3	1520.4
43°	1867.7	1870.2	1845.7	1731.9	1463.7	1197.4	1083.3	1098.4	1203.2	1365.4	1520.2
44°	1835.6	1842.1	1828.4	1730.3	1456.8	1178.1	1054.5	1076.8	1189.5	1355.5	1521.2



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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	1800.4	1812.2	1810.2	1725.6	1450.8	1159.6	1026.1	1053.3	1175.9	1345.1	1521.2
46°	1762.8	1777.3	1786.7	1719.8	1445.4	1141.9	998.9	1030.3	1162.2	1342.0	1517.5
47°	1717.3	1738.8	1763.3	1710.5	1441.9	1123.2	968.5	1007.2	1147.0	1337.3	1509.3
48°	1668.1	1695.7	1732.0	1701.4	1436.6	1102.1	939.7	982.0	1129.1	1330.5	1499.6
49°	1615.5	1646.6	1698.0	1685.7	1432.9	1079.8	909.2	954.7	1111.5	1322.0	1488.7
50°	1558.2	1590.8	1660.7	1669.3	1430.3	1055.7	879.5	925.0	1097.7	1312.5	1476.1
51°	1495.5	1535.4	1618.4	1651.7	1427.2	1031.0	849.0	896.2	1082.7	1300.6	1462.4
52°	1429.2	1471.5	1571.7	1632.1	1425.8	1005.1	817.5	871.6	1064.4	1290.0	1449.4
53°	1357.5	1405.1	1518.1	1606.4	1422.3	974.8	787.4	848.3	1044.7	1280.1	1434.4
54°	1283.3	1333.5	1457.4	1576.6	1417.9	948.8	757.5	819.7	1024.1	1268.4	1418.3
55°	1204.6	1257.4	1392.9	1541.3	1414.7	922.0	725.1	790.4	1001.5	1255.2	1400.8
56°	1120.2	1177.0	1323.7	1503.3	1409.0	895.9	693.4	763.5	982.7	1239.8	1381.6
57°	1024.7	1089.8	1247.4	1459.5	1400.4	870.8	661.9	736.8	961.1	1224.1	1360.6
58°	910.0	994.7	1166.9	1406.3	1386.8	845.7	629.2	708.9	940.5	1208.0	1336.3
59°	781.0	881.9	1080.2	1346.9	1371.7	821.0	596.6	678.7	918.2	1191.8	1307.7
60°	647.4	752.1	986.1	1278.0	1351.4	796.3	562.9	647.9	895.2	1175.6	1275.9
61°	521.6	618.2	882.3	1200.8	1329.6	773.3	530.7	617.0	871.9	1159.3	1237.4
62°	395.9	492.8	757.7	1109.8	1302.4	753.5	500.6	588.0	849.9	1137.1	1179.8
63°	270.2	367.4	627.9	1012.1	1270.4	735.7	468.2	557.1	829.4	1112.8	1122.1
64°	175.2	242.0	498.4	910.4	1232.1	721.1	436.3	528.4	807.6	1085.3	1063.3
65°	115.1	151.1	368.9	791.3	1187.6	711.1	405.8	500.0	785.2	1057.2	963.4
66°	88.6	99.5	239.3	658.9	1134.3	706.5	375.7	471.7	761.1	1019.5	890.8
67°	80.4	78.1	146.3	522.9	1068.8	703.9	346.9	443.4	737.5	958.8	848.3
68°	74.7	71.0	92.6	386.9	987.7	702.6	317.9	416.1	709.7	883.6	812.7
69°	69.2	65.4	72.5	250.8	896.8	700.4	290.0	389.4	682.3	825.3	777.7
70°	63.7	60.1	65.2	146.1	781.0	699.9	262.8	363.9	656.0	788.7	744.0
71°	58.6	55.5	59.9	86.3	628.2	703.6	236.5	338.0	626.3	753.1	713.1
72°	54.5	51.0	54.6	62.6	465.1	704.3	212.7	312.7	578.9	714.0	680.5
73°	50.5	46.5	49.2	55.5	301.8	687.7	189.1	286.6	534.4	673.6	646.0
74°	46.4	42.5	43.9	48.8	138.5	639.8	166.5	261.3	504.9	635.4	607.2
75°	42.3	38.2	38.9	42.0	76.8	578.4	145.2	237.6	480.2	599.3	566.7
76°	38.8	34.3	33.2	37.4	64.7	512.5	124.0	213.9	453.0	564.2	517.8
77°	36.1	31.3	28.8	33.9	53.4	446.5	102.8	191.7	426.1	531.5	461.5
78°	34.4	28.7	25.2	29.8	42.0	380.5	85.1	164.8	401.2	499.9	410.6
79°	33.0	27.1	22.7	24.7	38.1	290.3	69.2	143.7	374.7	469.7	363.5
80°	31.2	25.8	20.7	20.1	38.1	219.4	54.9	122.6	348.8	430.5	327.0
81°	29.1	24.1	19.1	17.1	35.4	153.4	42.9	101.6	324.0	389.4	289.4
82°	26.6	22.2	17.6	14.9	30.3	99.8	32.6	85.3	297.2	347.6	206.3
83°	22.0	19.3	16.1	13.0	25.1	58.8	23.6	69.9	270.6	315.6	123.2
84°	17.4	15.8	13.6	11.3	17.2	43.9	18.0	54.8	233.8	286.7	41.6
85°	12.5	11.7	10.2	9.6	10.1	29.1	12.5	41.4	188.3	229.1	23.9
86°	8.7	8.8	7.4	7.2	6.5	14.4	7.0	28.9	150.7	171.4	6.6
87°	5.9	6.0	5.1	4.9	4.4	7.9	4.0	19.6	113.1	113.8	3.2
88°	3.2	3.2	2.8	2.7	2.3	5.2	1.8	10.2	75.5	56.2	1.1
89°	0.4	0.4	0.4	0.5	0.5	2.7	0.6	1.1	37.8	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: P1449890  
 CATALOG NUMBER: TWC60\_T2\_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: P1449890  
CATALOG NUMBER: TWC60\_T2\_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: P1449890

CATALOG NUMBER: TWC60\_T2\_36W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9	1641.9
1°	1631.1	1631.0	1632.3	1631.2	1633.7	1635.5	1637.7	1642.4	1645.0	1646.7	1648.9
2°	1621.4	1622.3	1621.7	1622.8	1628.5	1631.3	1635.3	1641.0	1647.8	1651.6	1657.0
3°	1616.7	1618.6	1616.0	1616.3	1618.7	1625.8	1630.3	1638.7	1647.4	1656.2	1666.2
4°	1632.0	1631.6	1626.5	1618.0	1612.8	1618.6	1626.0	1637.7	1650.9	1661.1	1673.4
5°	1656.6	1657.8	1650.1	1636.4	1615.7	1611.8	1621.4	1634.2	1650.1	1666.5	1680.7
6°	1668.2	1668.5	1668.1	1654.0	1629.0	1607.9	1615.7	1630.3	1649.9	1670.3	1686.1
7°	1658.8	1655.6	1660.5	1662.2	1645.3	1609.4	1609.7	1627.3	1650.1	1673.0	1692.0
8°	1629.7	1626.6	1632.1	1651.4	1655.0	1615.7	1603.0	1623.5	1650.5	1675.1	1696.0
9°	1613.8	1613.8	1614.0	1623.2	1652.3	1627.3	1594.9	1617.0	1646.8	1675.8	1700.2
10°	1606.7	1606.2	1605.8	1605.5	1632.3	1635.2	1589.9	1612.1	1645.5	1677.4	1704.8
11°	1600.7	1601.3	1599.7	1597.1	1608.8	1636.5	1585.2	1606.2	1640.9	1676.6	1706.8
12°	1599.5	1599.9	1595.5	1588.5	1591.9	1629.4	1582.6	1597.5	1638.7	1676.6	1711.3
13°	1596.0	1597.6	1593.5	1583.6	1582.1	1611.6	1584.3	1589.5	1634.7	1676.4	1715.5
14°	1592.1	1593.4	1586.9	1579.6	1572.0	1588.5	1588.3	1583.0	1631.3	1676.6	1719.6
15°	1588.1	1589.4	1583.1	1574.3	1562.7	1568.6	1588.0	1576.1	1626.1	1678.2	1725.5
16°	1585.4	1588.1	1581.0	1566.6	1556.1	1553.3	1589.3	1564.9	1621.4	1679.5	1730.1
17°	1582.7	1585.0	1577.5	1561.9	1546.6	1542.4	1582.9	1556.5	1616.0	1678.9	1736.0
18°	1578.3	1580.6	1571.8	1555.4	1537.2	1529.7	1571.8	1546.0	1613.2	1678.9	1742.1
19°	1573.8	1579.0	1569.0	1550.8	1526.9	1518.1	1556.2	1537.8	1608.2	1677.9	1747.5
20°	1573.0	1577.8	1564.7	1543.3	1520.4	1506.9	1535.4	1525.8	1602.6	1677.2	1748.9
21°	1571.6	1576.1	1562.4	1536.8	1511.9	1495.8	1511.9	1516.1	1598.6	1677.4	1753.1
22°	1569.9	1575.8	1560.8	1531.5	1501.7	1482.3	1488.6	1505.7	1590.9	1674.0	1755.9
23°	1570.1	1577.4	1559.1	1527.4	1491.7	1465.9	1468.8	1496.9	1583.4	1671.7	1759.4
24°	1568.7	1577.4	1558.5	1520.0	1481.9	1452.3	1451.3	1487.8	1573.1	1666.9	1762.3
25°	1567.9	1578.0	1557.9	1517.0	1473.7	1440.4	1434.1	1482.6	1562.0	1661.8	1763.6
26°	1569.9	1579.0	1555.6	1512.1	1464.4	1425.2	1417.6	1477.7	1551.6	1656.2	1765.6
27°	1569.3	1580.2	1556.2	1509.1	1455.1	1409.6	1400.2	1470.5	1537.7	1652.2	1767.1
28°	1570.6	1583.3	1556.2	1504.3	1444.8	1393.6	1384.9	1463.4	1523.5	1643.2	1768.1
29°	1574.1	1586.3	1556.9	1498.8	1436.2	1380.5	1368.0	1453.3	1508.5	1636.9	1770.4
30°	1574.8	1589.7	1559.4	1495.3	1426.6	1364.3	1348.5	1437.2	1492.0	1628.0	1773.7
31°	1581.3	1595.1	1560.3	1494.0	1417.4	1350.1	1328.0	1419.1	1474.5	1620.6	1775.2
32°	1583.8	1599.5	1564.7	1489.9	1407.3	1333.6	1309.3	1396.5	1458.7	1613.9	1774.0
33°	1585.2	1600.7	1565.3	1488.9	1395.4	1317.9	1287.3	1369.2	1440.7	1604.3	1777.5
34°	1585.0	1599.7	1564.3	1487.2	1387.9	1301.9	1268.2	1340.0	1422.9	1596.1	1775.8
35°	1585.4	1605.6	1562.7	1484.5	1376.8	1286.8	1247.4	1310.3	1404.2	1587.7	1778.3
36°	1591.7	1613.3	1564.0	1479.3	1367.7	1270.6	1225.5	1280.1	1385.7	1582.8	1779.5
37°	1599.8	1623.2	1570.4	1472.1	1358.7	1254.4	1202.8	1254.4	1367.3	1573.6	1782.2
38°	1605.6	1629.4	1577.1	1470.5	1349.1	1237.3	1181.7	1227.0	1349.7	1569.2	1782.2
39°	1608.2	1630.4	1581.5	1469.4	1337.1	1219.3	1160.7	1201.1	1331.3	1562.5	1782.8
40°	1609.5	1632.0	1580.6	1466.9	1323.6	1202.9	1139.6	1173.9	1311.5	1556.4	1781.4
41°	1611.8	1634.6	1580.1	1464.5	1313.2	1186.9	1113.6	1148.7	1292.1	1549.4	1783.3
42°	1614.0	1637.7	1585.3	1460.8	1303.9	1171.0	1088.4	1122.4	1272.8	1545.7	1779.4
43°	1616.5	1637.3	1586.3	1460.6	1296.9	1155.0	1061.8	1094.5	1254.4	1543.5	1776.3
44°	1613.0	1631.8	1586.0	1460.5	1289.1	1134.2	1036.3	1066.6	1233.7	1542.4	1769.1



REPORT NUMBER: P1449890

CATALOG NUMBER: TWC60\_T2\_36W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1606.4	1624.8	1580.7	1458.9	1275.3	1111.7	1010.7	1038.4	1213.2	1540.9	1760.3
46°	1596.6	1614.5	1571.7	1456.5	1263.3	1089.6	985.1	1010.1	1194.4	1538.3	1748.6
47°	1586.6	1605.2	1560.8	1451.3	1252.5	1068.3	959.9	980.2	1174.5	1535.4	1734.0
48°	1575.4	1591.2	1550.2	1444.5	1243.0	1051.7	933.9	951.7	1156.3	1533.9	1716.0
49°	1562.2	1578.0	1537.1	1435.3	1231.2	1031.4	907.6	920.6	1137.4	1531.6	1698.7
50°	1548.0	1563.2	1525.2	1424.8	1218.6	1010.4	880.5	889.7	1117.7	1528.4	1677.5
51°	1532.2	1546.3	1511.1	1410.1	1204.1	989.9	852.9	860.1	1099.9	1524.6	1653.1
52°	1516.6	1528.5	1494.9	1397.7	1190.8	970.0	822.8	829.4	1081.5	1520.4	1621.5
53°	1495.6	1503.9	1477.2	1382.5	1180.4	952.0	792.2	798.9	1064.8	1513.0	1588.0
54°	1473.1	1478.9	1458.7	1367.7	1170.1	930.7	761.6	767.1	1050.2	1502.1	1547.9
55°	1447.4	1450.7	1434.2	1351.1	1159.7	908.1	734.2	734.8	1036.4	1489.2	1503.6
56°	1418.0	1417.4	1407.8	1334.7	1145.9	882.0	705.3	702.1	1025.7	1469.7	1454.4
57°	1384.4	1382.3	1376.7	1314.5	1130.6	856.9	674.5	669.3	1018.5	1450.8	1395.3
58°	1346.9	1340.3	1342.0	1295.7	1116.3	830.7	643.7	636.4	1009.6	1427.6	1332.1
59°	1306.5	1296.9	1304.6	1272.5	1102.7	806.2	613.9	604.3	1002.4	1400.3	1258.3
60°	1262.2	1229.9	1263.4	1248.5	1084.5	781.3	584.4	572.9	993.4	1369.7	1177.8
61°	1182.1	1162.8	1193.1	1218.7	1065.7	757.3	555.1	541.7	984.8	1332.2	1089.7
62°	1102.1	1095.6	1122.8	1179.8	1045.8	731.7	524.7	510.5	981.1	1290.6	993.1
63°	1022.0	991.3	1052.3	1140.9	1021.2	704.7	493.0	478.3	977.1	1238.1	888.0
64°	940.5	929.9	956.0	1101.2	997.3	680.0	461.4	446.0	975.3	1179.3	771.8
65°	896.8	894.2	898.8	1024.3	969.7	654.3	430.0	415.9	971.1	1109.0	640.5
66°	863.9	860.8	860.8	931.3	941.7	627.5	399.7	386.2	968.6	1026.2	508.0
67°	831.0	823.7	830.1	866.0	909.3	600.8	370.0	356.6	966.8	932.3	375.5
68°	792.7	780.5	797.6	823.2	869.0	573.4	340.7	325.0	955.9	816.5	242.9
69°	751.0	732.4	760.0	781.9	808.1	544.9	312.2	294.4	932.3	682.0	146.0
70°	707.5	684.6	722.4	743.1	752.8	517.7	284.6	264.8	891.0	526.5	89.1
71°	658.3	630.4	678.8	707.2	719.5	490.2	259.3	235.5	831.0	370.4	66.4
72°	608.2	581.3	633.3	676.9	691.3	463.6	235.7	208.5	774.9	214.3	59.1
73°	560.4	535.4	584.3	648.5	658.0	434.7	211.3	182.6	729.2	117.1	53.4
74°	510.0	484.3	533.9	619.4	625.4	392.9	189.1	159.6	656.2	69.5	47.8
75°	460.3	432.3	483.0	589.1	592.5	358.6	167.8	137.1	572.1	59.3	42.1
76°	407.0	373.6	433.9	555.6	559.7	333.4	149.3	116.6	454.9	49.8	36.1
77°	352.9	317.6	383.1	513.2	525.7	309.1	130.7	99.7	336.7	40.2	30.9
78°	303.5	263.8	337.3	461.8	489.3	283.7	112.3	85.5	218.4	36.8	26.1
79°	250.1	198.5	289.6	406.6	454.1	260.0	96.7	73.5	122.0	35.1	21.8
80°	180.6	133.3	238.2	356.2	416.8	237.6	79.4	61.2	66.0	32.0	18.5
81°	111.2	68.5	156.8	320.7	376.1	214.7	64.4	49.9	53.6	26.1	16.4
82°	43.2	22.4	75.7	292.6	338.1	192.1	52.4	38.6	41.8	20.7	14.6
83°	31.6	17.7	53.4	205.5	295.7	168.7	41.1	27.3	30.0	15.0	13.0
84°	20.0	12.9	31.1	118.4	263.2	143.1	31.4	19.6	29.0	10.5	11.5
85°	8.5	8.2	9.0	31.3	232.5	117.5	22.9	13.6	25.2	8.2	9.5
86°	5.2	4.9	5.6	17.4	145.5	91.9	16.5	8.8	18.6	6.4	6.6
87°	2.5	2.4	2.6	3.4	59.5	68.5	10.2	6.0	11.0	4.3	4.1
88°	0.9	0.9	1.0	1.0	29.4	45.6	3.9	3.2	7.4	2.1	1.6
89°	0.2	0.2	0.2	0.2	0.4	22.7	0.6	0.4	3.8	0.4	0.5



REPORT NUMBER: P1449890  
 CATALOG NUMBER: TWC60\_T2\_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: P1449890  
 CATALOG NUMBER: TWC60\_T2\_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: P1449890  
CATALOG NUMBER: TWC60\_T2\_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: P1449890  
CATALOG NUMBER: TWC60\_T2\_36W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	1641.9	1641.9	1641.9
1°	1651.5	1652.6	1652.3
2°	1661.8	1663.4	1666.4
3°	1670.7	1675.5	1677.5
4°	1682.0	1686.7	1690.1
5°	1690.6	1696.8	1700.6
6°	1698.1	1706.3	1709.7
7°	1705.4	1716.5	1718.5
8°	1712.8	1724.5	1726.1
9°	1719.1	1731.2	1735.6
10°	1725.0	1738.7	1744.5
11°	1732.0	1748.9	1755.1
12°	1739.5	1760.7	1766.2
13°	1749.0	1770.8	1776.1
14°	1757.4	1783.6	1788.8
15°	1767.1	1793.2	1801.7
16°	1776.1	1804.8	1812.3
17°	1783.7	1813.5	1823.1
18°	1792.1	1826.0	1836.4
19°	1800.6	1837.1	1848.4
20°	1809.5	1847.6	1859.4
21°	1818.7	1857.7	1871.9
22°	1825.8	1871.4	1884.6
23°	1832.5	1882.8	1897.7
24°	1842.8	1894.2	1910.3
25°	1849.9	1907.3	1920.6
26°	1859.0	1916.6	1930.6
27°	1867.5	1924.7	1943.1
28°	1874.7	1936.3	1952.7
29°	1879.2	1947.3	1964.6
30°	1889.1	1955.8	1970.8
31°	1895.5	1963.1	1979.9
32°	1901.5	1969.5	1985.3
33°	1907.3	1973.9	1991.3
34°	1908.8	1976.1	1993.5
35°	1914.2	1976.5	1992.3
36°	1916.2	1973.9	1985.9
37°	1913.4	1968.1	1979.1
38°	1911.9	1959.9	1967.5
39°	1906.0	1945.9	1953.5
40°	1897.0	1930.7	1938.2
41°	1884.0	1915.1	1921.2
42°	1870.4	1892.9	1897.7
43°	1853.2	1870.1	1867.7
44°	1833.8	1840.8	1835.6



REPORT NUMBER: P1449890  
CATALOG NUMBER: TWC60\_T2\_36W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	1811.6	1806.0	1800.4
46°	1785.5	1769.1	1762.8
47°	1752.8	1729.2	1717.3
48°	1719.1	1682.5	1668.1
49°	1678.7	1629.4	1615.5
50°	1634.7	1574.7	1558.2
51°	1585.9	1516.9	1495.5
52°	1531.9	1451.9	1429.2
53°	1475.9	1381.7	1357.5
54°	1410.7	1309.6	1283.3
55°	1341.0	1232.5	1204.6
56°	1266.3	1148.2	1120.2
57°	1186.6	1059.6	1024.7
58°	1100.3	956.1	910.0
59°	1009.9	834.4	781.0
60°	905.6	702.6	647.4
61°	787.8	564.1	521.6
62°	653.9	437.8	395.9
63°	524.9	311.7	270.2
64°	395.8	206.8	175.2
65°	266.8	130.2	115.1
66°	168.2	91.9	88.6
67°	104.2	78.2	80.4
68°	76.6	72.0	74.7
69°	67.6	66.6	69.2
70°	61.9	61.4	63.7
71°	57.0	56.8	58.6
72°	51.9	52.2	54.5
73°	46.7	47.6	50.5
74°	42.7	43.7	46.4
75°	38.0	39.5	42.3
76°	32.9	35.7	38.8
77°	28.6	32.8	36.1
78°	25.6	30.7	34.4
79°	23.3	29.1	33.0
80°	21.5	27.6	31.2
81°	20.0	25.8	29.1
82°	18.4	23.7	26.6
83°	16.6	20.2	22.0
84°	13.3	16.4	17.4
85°	10.5	12.2	12.5
86°	6.8	8.8	8.7
87°	4.7	6.0	5.9
88°	2.6	3.2	3.2
89°	0.4	0.4	0.4



REPORT NUMBER: P1449890  
CATALOG NUMBER: TWC60\_T2\_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: P1449890  
CATALOG NUMBER: TWC60\_T2\_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: P1449890  
CATALOG NUMBER: TWC60\_T2\_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

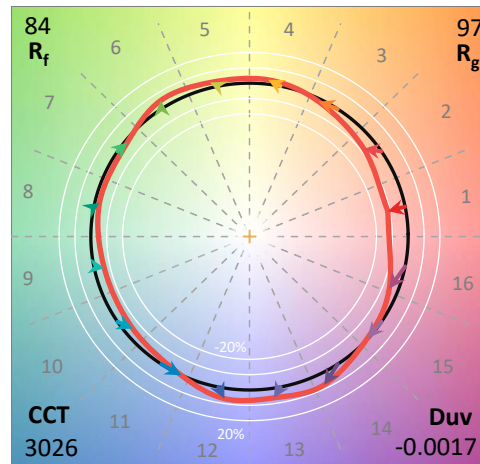
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2601-659-1  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 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**

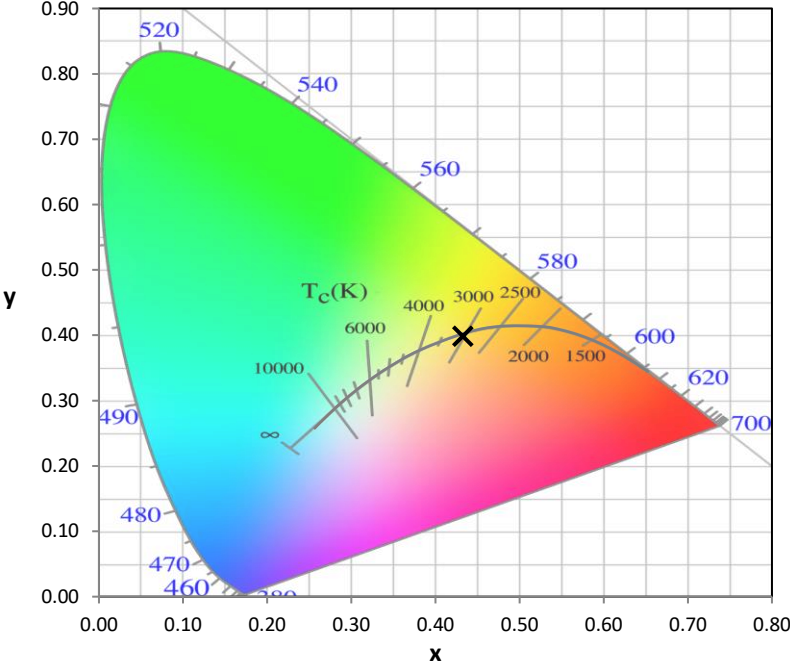
Stabilization Time: 64M  
 Operation Time: 2H 4M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-1

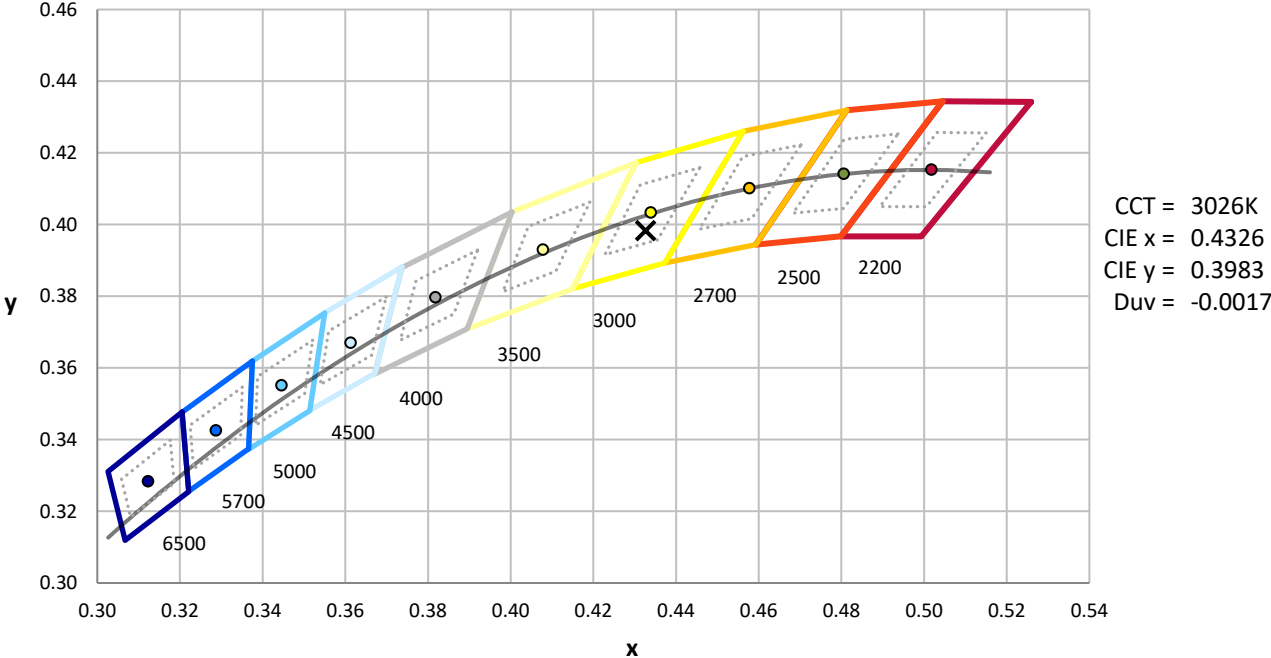
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



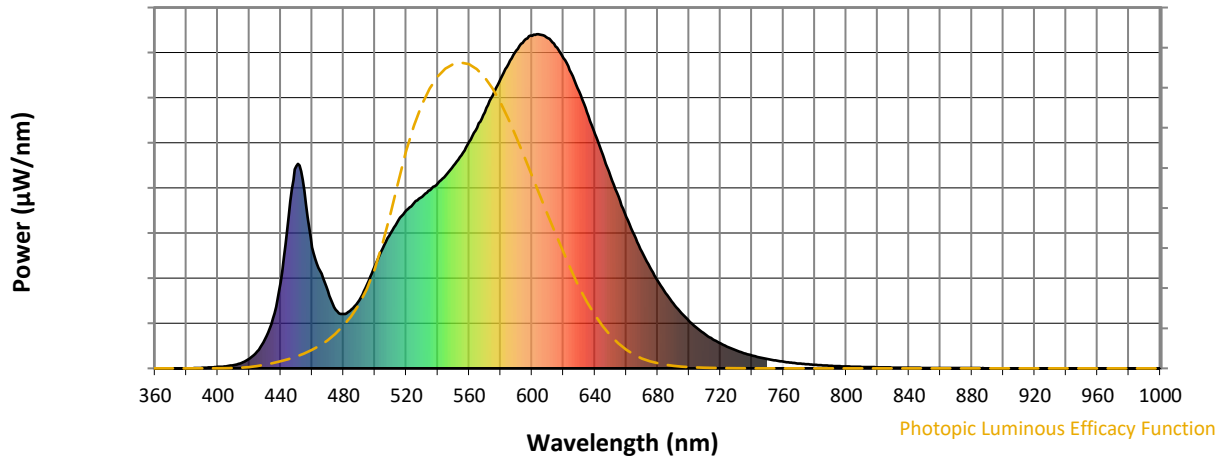
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

**Photopic Flux vs. Wavelength**

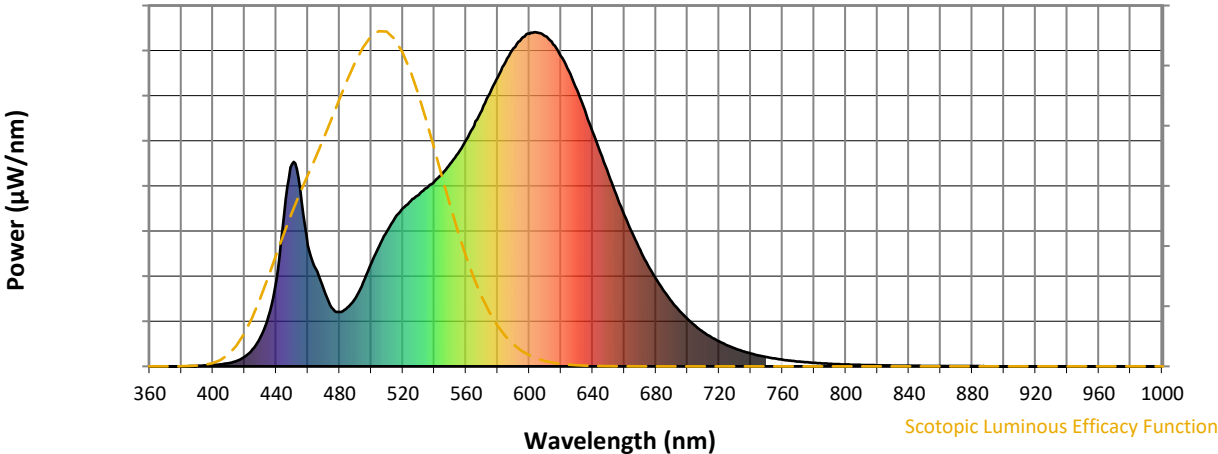


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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

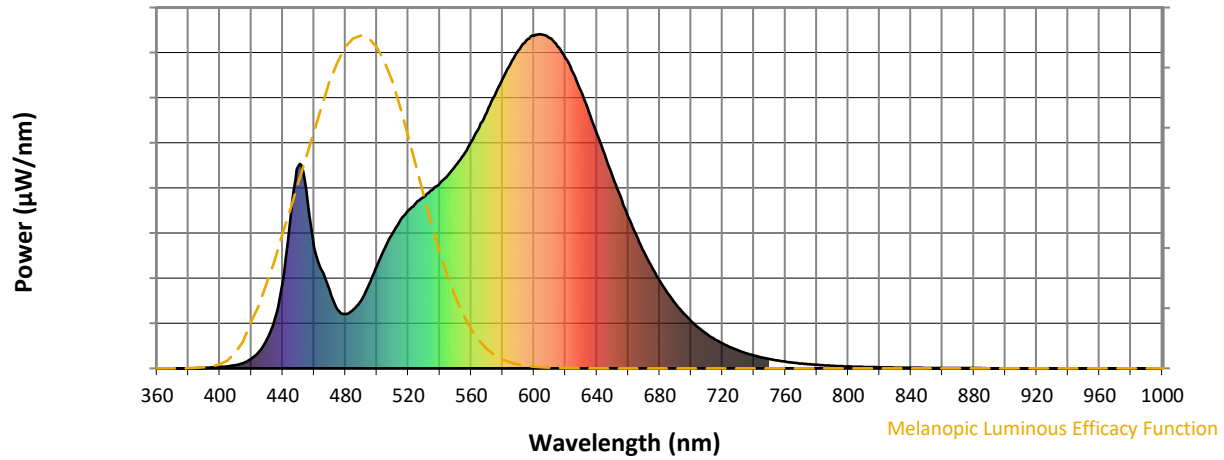


Scotopic Lumens: NR S/P: 1.35

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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



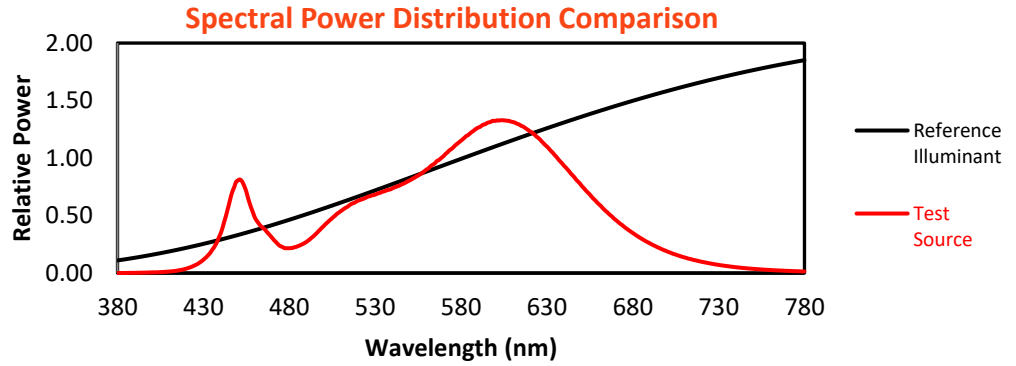
Melanopic Lumens: NR

M/P: 2.61

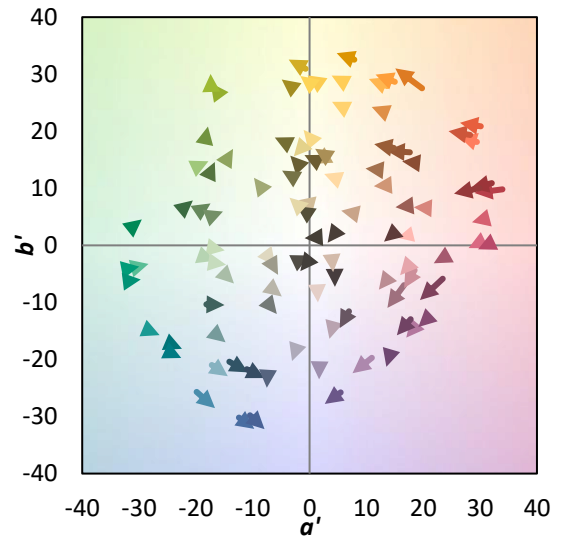
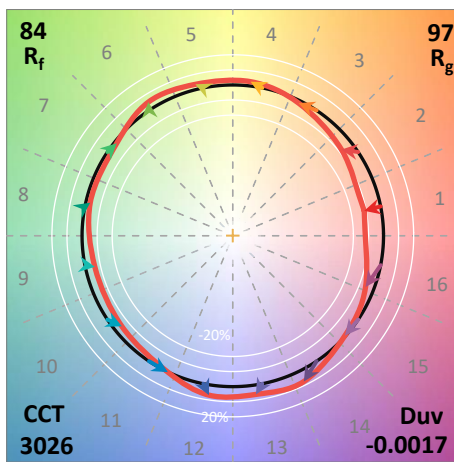
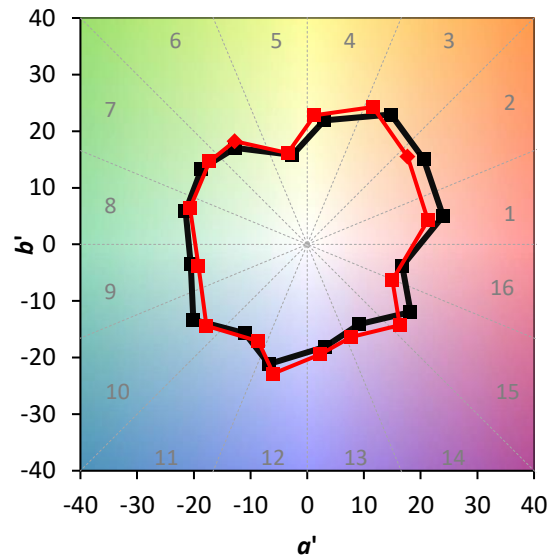
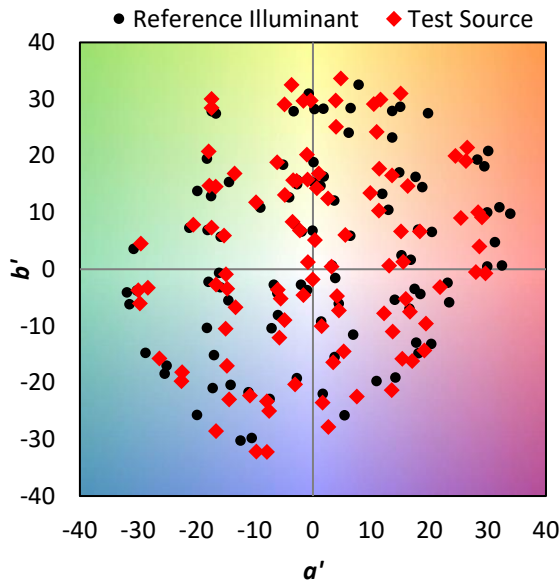
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	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**

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

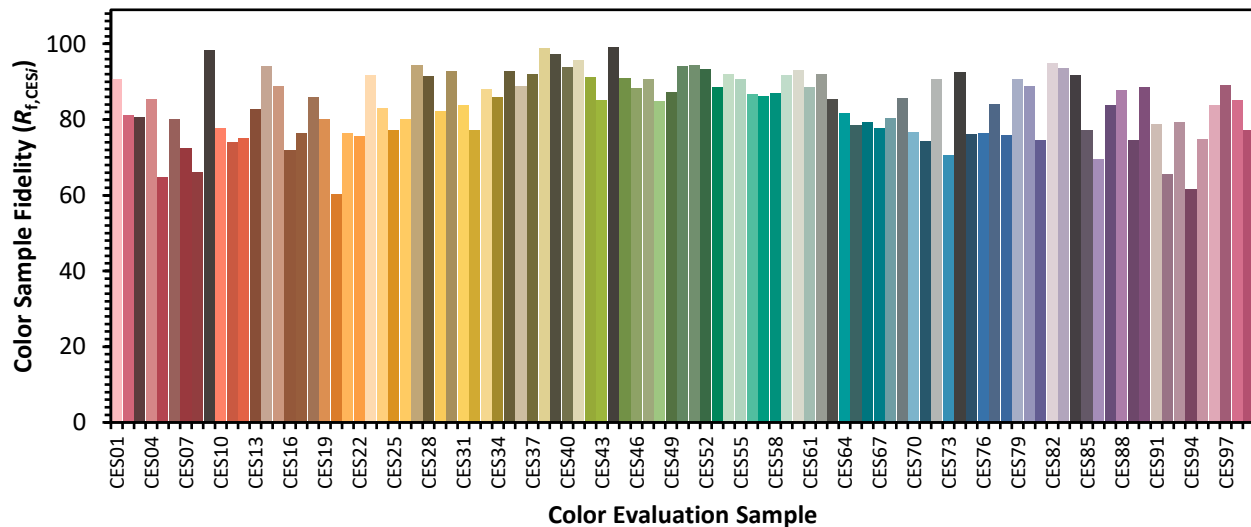


**Color Vector Graphics**

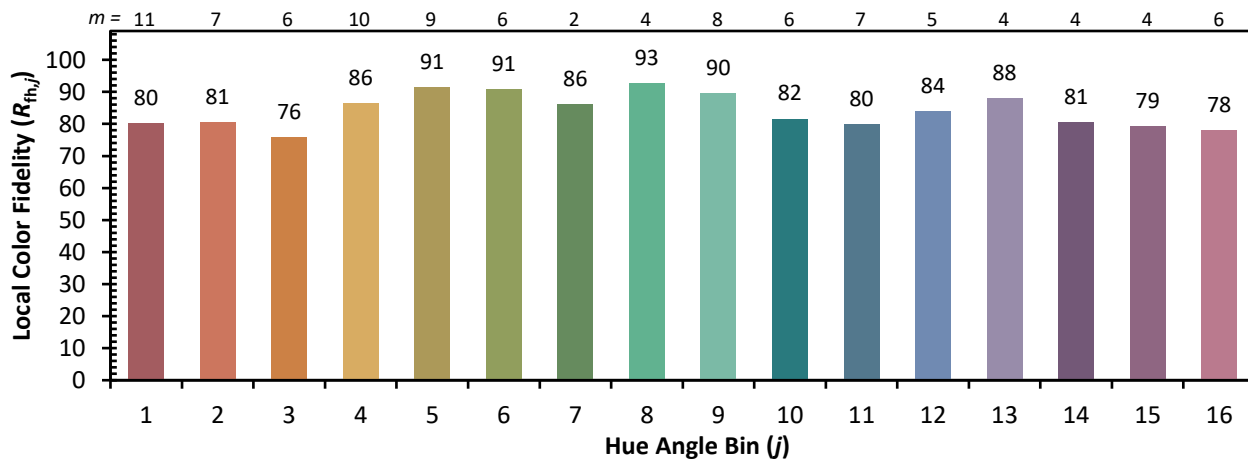
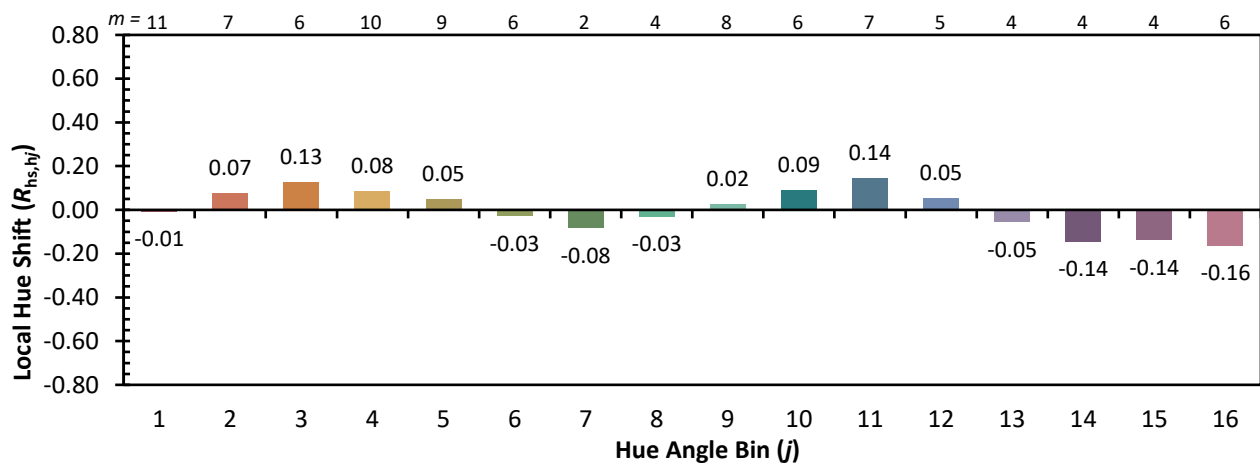
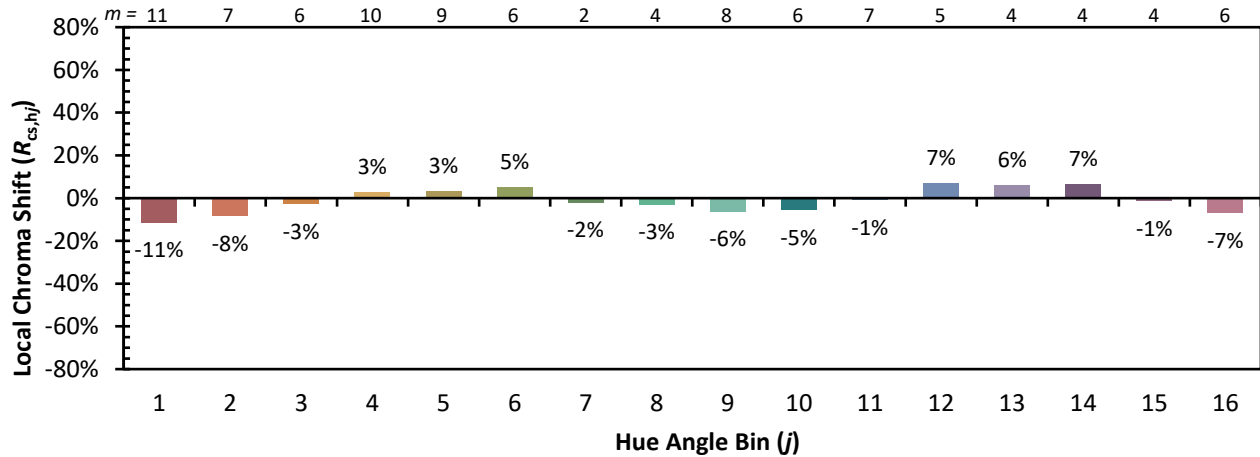


Individual Sample Fidelity Index ( $R_{f,i}$ )

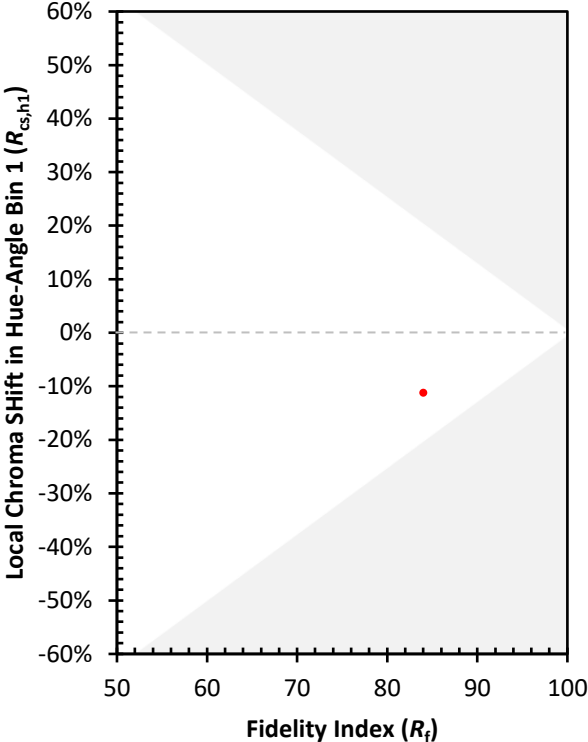
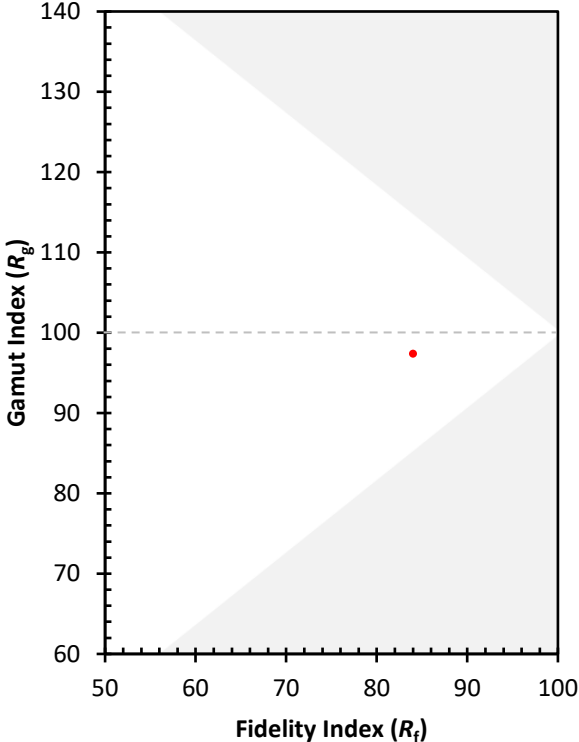
CES01 = 86	CES26 = 80	CES51 = 94	CES76 = 76
CES02 = 63	CES27 = 94	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 92	CES53 = 88	CES78 = 76
CES04 = 70	CES29 = 82	CES54 = 92	CES79 = 91
CES05 = 50	CES30 = 93	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 75
CES07 = 42	CES32 = 77	CES57 = 86	CES82 = 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)