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: STREETWORKS

Report Number: P1223987

Luminaire Tested: **FFX-CLB-90-730-U-VM8-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223987
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-90-730-U-VM8-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13620.6 lumens
Efficiency:	N/A
Efficacy:	150.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U5 - G5

Input Watts (W):	90.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	5.42%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

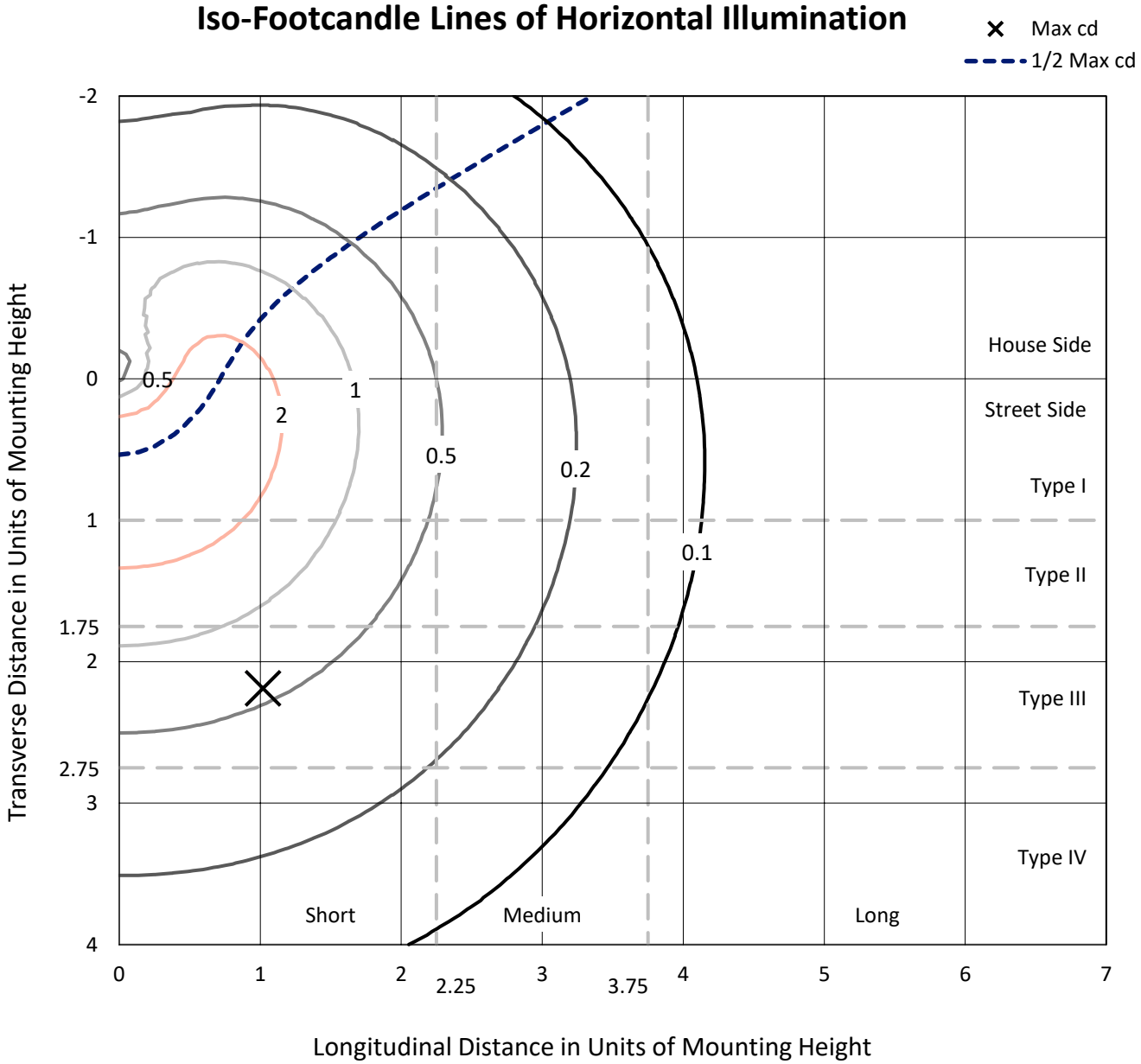


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Iso-Footcandle Lines of Horizontal Illumination



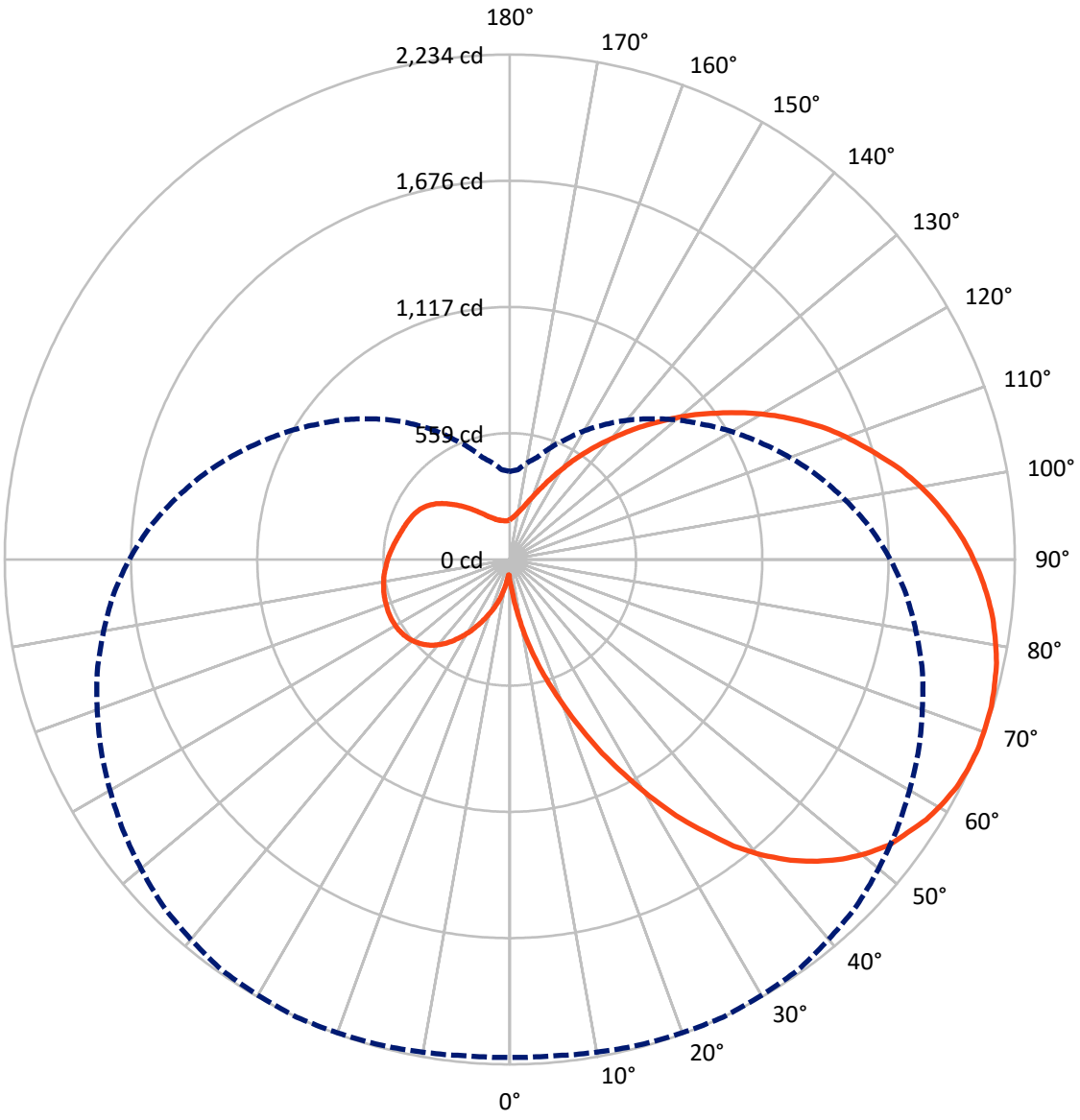
Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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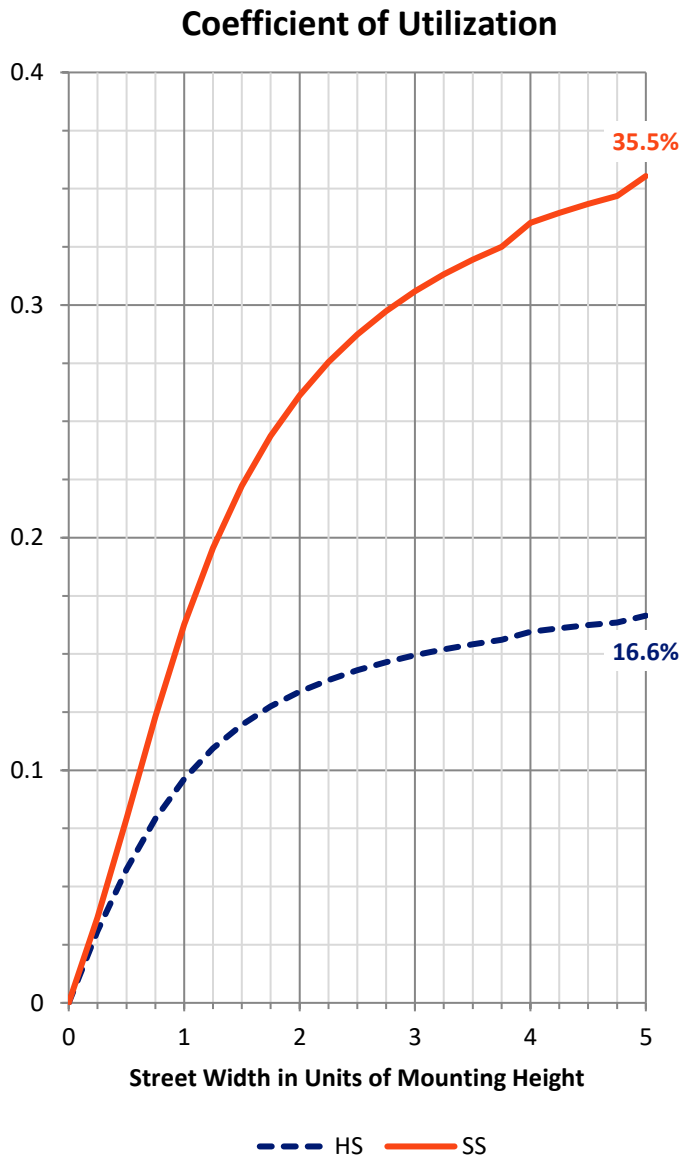
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2494.5	1906.7	4401.2
	% Fixture	18.3	14.0	32.3
Street Side	Lumens	5511.8	3707.7	9219.5
	% Fixture	40.5	27.2	67.7
Total	Lumens	8006.2	5614.4	13620.6
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	0.1
10°-20°	103.6	0.8
20°-30°	310.3	2.3
30°-40°	638.5	4.7
40°-50°	997.0	7.3
50°-60°	1291.3	9.5
60°-70°	1489.0	10.9
70°-80°	1584.2	11.6
80°-90°	1577.3	11.6
90°-100°	1471.5	10.8
100°-110°	1286.3	9.4
110°-120°	1053.4	7.7
120°-130°	783.4	5.8
130°-140°	509.5	3.7
140°-150°	288.6	2.1
150°-160°	142.2	1.0
160°-170°	62.1	0.5
170°-180°	17.4	0.1
0°-90°	8006.2	58.8
0°-180°	13620.6	100.0



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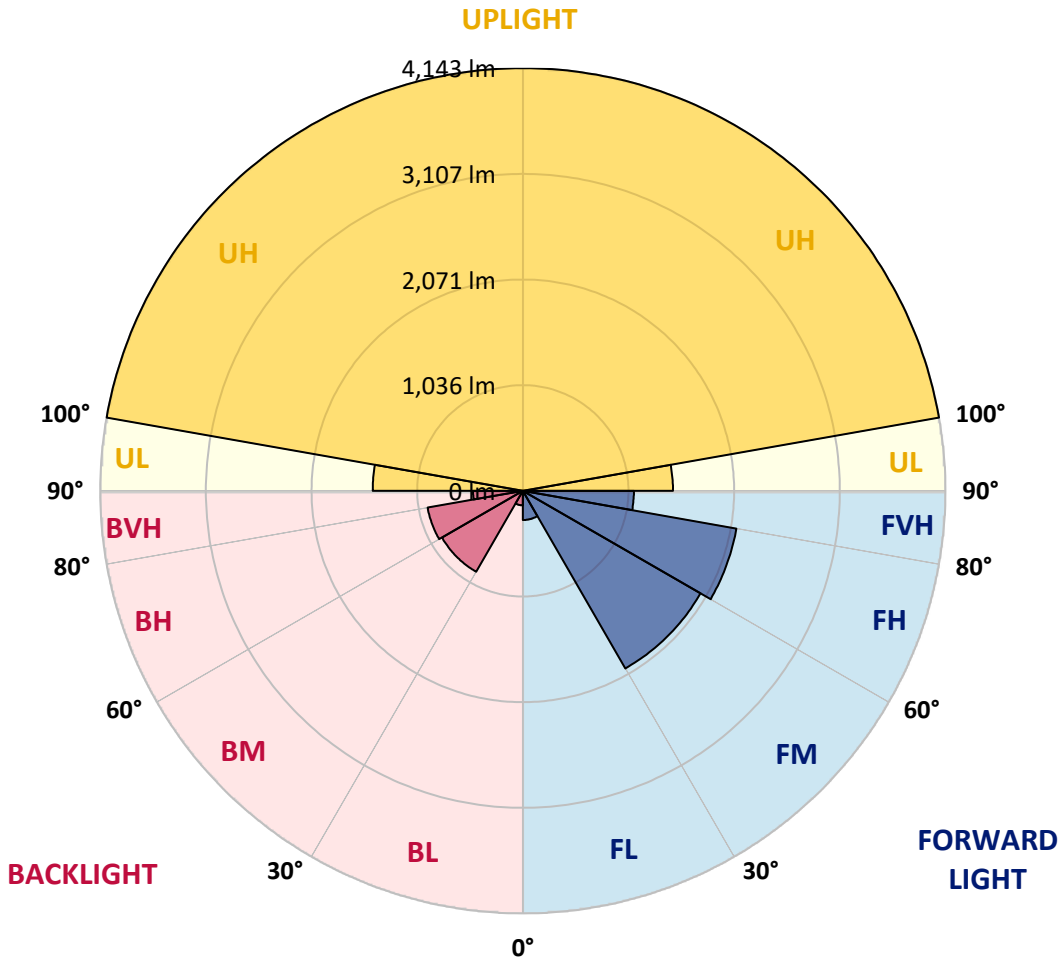
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	286.2	2.1			
FM	(30°-60°)	2011.1	14.8			
FH	(60°-80°)	2125.8	15.6			G2/5000
FVH	(80°-90°)	1088.8	8.0			G5
BL	(0°-30°)	142.6	1.0	B1/500		
BM	(30°-60°)	915.8	6.7	B1/1000		
BH	(60°-80°)	947.4	7.0	B2/1000		G2/1000
BVH	(80°-90°)	488.6	3.6			G3/500
UL	(90°-100°)	1471.5	10.8		U5	
UH	(100°-180°)	4142.9	30.4		U5	

BUG Rating: B2-U5-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2.5°	117.6	117.6	118.5	118.5	116.7	117.6	115.9	113.3	111.5	107.2	105.5
5°	171.2	168.6	169.5	167.7	164.3	162.6	155.6	150.4	141.8	132.3	128.0
7.5°	237.8	238.6	235.2	230.9	230.0	220.5	218.8	202.3	195.4	179.0	174.7
10°	319.9	318.2	314.7	313.9	306.1	296.6	281.9	273.2	250.7	238.6	229.1
12.5°	409.8	410.7	404.6	398.6	391.7	378.7	358.8	345.0	326.8	301.8	289.7
15°	506.7	503.2	503.2	496.3	485.9	471.2	455.7	435.8	409.8	383.0	365.7
17.5°	596.6	603.5	600.9	592.3	582.8	564.6	548.2	520.5	492.0	462.6	441.0
20°	709.0	710.7	706.4	698.6	690.0	669.2	649.3	621.7	586.2	540.4	522.2
22.5°	822.3	825.7	825.7	821.4	809.3	791.1	759.1	728.9	684.8	639.0	608.7
25°	952.8	950.2	952.8	950.2	930.3	913.9	881.1	844.7	797.2	741.0	704.7
27.5°	1084.3	1087.7	1080.8	1074.7	1067.0	1041.0	1005.6	959.7	900.1	841.3	802.4
30°	1212.2	1220.0	1220.0	1213.1	1201.0	1175.0	1135.3	1086.0	1020.3	945.9	900.1
32.5°	1346.2	1348.8	1352.3	1351.4	1337.6	1312.5	1268.4	1201.8	1128.3	1046.2	1001.2
35°	1488.0	1480.3	1482.0	1476.8	1470.7	1439.6	1388.6	1324.6	1245.1	1153.4	1098.9
37.5°	1605.6	1602.2	1604.8	1609.1	1592.7	1560.7	1501.9	1427.5	1340.2	1244.2	1189.7
40°	1717.2	1714.6	1718.9	1719.8	1703.3	1666.1	1603.9	1532.1	1437.9	1327.2	1276.2
42.5°	1810.5	1810.5	1814.9	1820.1	1802.8	1763.0	1699.9	1614.3	1517.4	1405.9	1343.6
45°	1897.0	1894.4	1903.1	1905.7	1888.4	1848.6	1777.7	1691.2	1587.5	1474.2	1409.4
47.5°	1966.2	1967.0	1975.7	1980.9	1965.3	1920.4	1848.6	1756.9	1648.9	1530.4	1463.8
50°	2023.2	2031.0	2038.8	2044.9	2028.4	1983.5	1909.1	1809.7	1701.6	1582.3	1513.1
52.5°	2080.3	2080.3	2092.4	2100.2	2082.0	2035.3	1957.5	1860.7	1750.0	1623.8	1556.3
55°	2116.6	2117.5	2132.2	2134.8	2123.5	2075.1	1995.6	1898.7	1788.1	1661.0	1589.2
57.5°	2148.6	2149.5	2165.9	2172.0	2156.4	2109.7	2028.4	1928.1	1820.1	1690.4	1617.7
60°	2176.3	2175.4	2189.3	2197.9	2182.3	2133.1	2053.5	1955.8	1845.1	1717.2	1641.9
62.5°	2193.6	2193.6	2210.0	2218.6	2202.2	2153.8	2072.5	1975.7	1865.0	1735.3	1661.0
65°	2201.4	2203.1	2218.6	2229.0	2213.5	2164.2	2082.9	1987.8	1878.8	1750.0	1674.8
67.5°	2204.0	2204.8	2223.8	2234.2	2219.5	2169.4	2089.0	1995.6	1889.2	1759.5	1683.4
70°	2205.7	2206.5	2221.2	2231.6	2218.6	2168.5	2090.7	1999.0	1895.3	1764.7	1688.6
72.5°	2196.2	2198.8	2215.2	2227.3	2211.7	2162.4	2086.4	1999.0	1894.4	1768.2	1690.4
75°	2184.1	2190.1	2204.8	2215.2	2201.4	2153.8	2079.4	1995.6	1893.5	1766.4	1690.4
77.5°	2172.0	2172.8	2191.8	2201.4	2186.7	2138.2	2067.3	1986.9	1888.4	1761.3	1684.3
80°	2147.7	2152.9	2169.4	2178.0	2165.0	2119.2	2050.0	1974.8	1878.8	1752.6	1674.8
82.5°	2130.5	2128.7	2145.2	2152.9	2140.0	2092.4	2030.2	1955.8	1865.0	1737.9	1661.8
85°	2097.6	2101.1	2114.0	2120.9	2106.2	2063.0	2003.4	1936.8	1846.0	1721.5	1644.5
87.5°	2066.5	2068.2	2076.8	2084.6	2069.9	2028.4	1973.1	1910.0	1822.6	1700.7	1625.5
90°	2027.6	2028.4	2037.9	2044.0	2031.0	1992.1	1941.1	1879.7	1797.6	1677.4	1602.2
92.5°	1991.3	1989.5	1996.4	1999.0	1987.8	1949.7	1903.9	1846.9	1767.3	1648.9	1576.2
95°	1943.7	1942.8	1948.9	1947.2	1935.0	1902.2	1860.7	1810.5	1731.9	1618.6	1546.8
97.5°	1891.0	1891.8	1895.3	1893.5	1880.6	1850.3	1818.3	1768.2	1695.5	1583.1	1514.0
100°	1832.2	1834.8	1839.9	1834.8	1823.5	1801.0	1767.3	1725.8	1654.0	1547.7	1479.4
102.5°	1782.9	1776.0	1774.2	1773.4	1762.1	1742.2	1716.3	1680.0	1613.4	1508.8	1443.1
105°	1718.0	1713.7	1712.8	1703.3	1699.0	1682.6	1661.0	1628.1	1568.4	1469.9	1405.9
107.5°	1649.7	1650.6	1647.1	1635.9	1629.8	1618.6	1606.5	1577.1	1520.0	1426.6	1367.8
110°	1588.3	1584.0	1574.5	1569.3	1565.0	1555.5	1547.7	1525.2	1472.5	1385.1	1326.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1512.2	1514.8	1503.6	*1500.1*	1493.2	1492.4	1487.2	1469.0	1422.3	1341.0	1285.7
115°	1443.9	1442.2	1431.0	*1424.1*	1421.5	1423.2	1426.6	1413.7	1370.4	1293.5	1242.5
117.5°	1368.7	1363.5	1355.7	*1348.8*	1345.4	1352.3	1360.1	1354.0	1317.7	1245.1	1196.7
120°	1288.3	1289.2	1277.9	*1271.0*	1271.9	1283.1	1293.5	1290.0	1255.4	1190.6	1147.4
122.5°	1213.1	1208.8	1199.2	*1192.3*	1198.4	1210.5	1222.6	1221.7	1191.5	1128.3	1089.4
125°	1130.9	1130.1	1120.6	*1113.6*	1118.8	1132.7	1147.4	1149.1	1120.6	1067.8	1028.9
127.5°	1053.1	1050.5	1048.8	*1041.0*	1044.5	1063.5	1073.9	1073.0	1047.9	999.5	965.8
130°	978.8	977.9	967.5	*964.1*	968.4	984.0	994.3	992.6	972.7	930.3	900.1
132.5°	903.5	900.1	895.8	*890.6*	894.0	907.0	920.8	919.1	895.8	855.1	830.9
135°	829.2	826.6	823.1	*819.7*	822.3	835.2	847.3	843.9	824.0	787.7	763.5
137.5°	760.9	758.3	754.0	*749.6*	753.1	763.5	771.3	768.7	752.2	717.6	694.3
140°	690.0	691.7	686.5	*683.1*	684.8	695.2	701.2	697.8	679.6	651.1	632.0
142.5°	625.1	625.1	622.5	*621.7*	624.3	629.5	634.6	627.7	615.6	586.2	570.7
145°	562.9	563.7	562.9	*561.1*	562.0	568.1	568.9	566.3	552.5	530.9	513.6
147.5°	504.1	506.7	504.9	*504.9*	505.8	508.4	511.9	505.8	493.7	474.7	462.6
150°	449.6	451.3	451.3	*449.6*	449.6	453.1	453.1	448.7	439.2	423.7	412.4
152.5°	402.1	402.9	402.9	*401.2*	402.1	402.9	401.2	396.0	388.2	376.1	367.5
155°	358.8	360.6	358.0	*358.8*	356.2	357.1	356.2	352.8	344.1	333.7	328.6
157.5°	319.9	322.5	320.8	*320.8*	319.0	318.2	317.3	313.9	307.8	299.2	293.1
160°	288.8	290.5	287.9	*287.9*	286.2	286.2	282.7	281.0	275.0	267.2	263.7
162.5°	262.0	262.0	261.1	*262.0*	261.1	258.5	256.8	253.3	248.1	242.1	239.5
165°	240.4	239.5	239.5	*238.6*	237.8	236.0	233.5	231.7	226.5	221.3	219.6
167.5°	223.9	223.1	222.2	*221.3*	219.6	218.8	216.2	214.4	210.1	205.8	204.1
170°	210.1	210.1	208.4	*207.5*	206.6	204.9	202.3	199.7	196.3	193.7	191.9
172.5°	198.0	198.0	197.1	*196.3*	195.4	193.7	191.1	189.4	186.8	184.2	182.4
175°	189.4	189.4	188.5	*186.8*	185.9	184.2	182.4	180.7	178.1	176.4	175.5
177.5°	182.4	182.4	182.4	*180.7*	179.8	178.1	176.4	174.7	173.8	172.1	172.1
180°	173.8	173.8	173.8	*173.8*	173.8	173.8	173.8	173.8	173.8	173.8	173.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2.5°	102.9	97.7	93.4	86.5	80.4	75.2	71.8	69.2	67.4	65.7
5°	122.8	113.3	103.8	93.4	83.9	75.2	68.3	63.1	60.5	60.5
7.5°	167.7	153.0	136.6	121.9	110.7	99.4	89.1	83.0	79.5	77.8
10°	219.6	198.0	181.6	163.4	143.5	129.7	117.6	109.8	105.5	106.3
12.5°	281.9	255.1	234.3	207.5	185.9	164.3	151.3	140.1	134.9	134.0
15°	351.0	319.9	289.7	257.7	229.1	204.1	185.0	170.3	161.7	160.8
17.5°	423.7	384.8	344.1	307.8	270.6	239.5	213.6	196.3	186.8	186.8
20°	497.2	453.1	405.5	358.0	313.0	275.0	244.7	222.2	210.1	208.4
22.5°	581.9	525.7	468.6	410.7	359.7	312.1	273.2	246.4	233.5	230.9
25°	674.4	607.8	539.5	471.2	408.1	351.0	306.1	275.8	257.7	255.1
27.5°	770.4	690.0	609.6	530.0	456.5	393.4	338.9	300.0	281.9	279.3
30°	864.6	776.4	683.1	589.7	506.7	434.0	371.8	326.8	304.4	300.9
32.5°	957.1	856.9	754.0	650.2	559.4	474.7	402.1	353.6	326.0	322.5
35°	1045.3	941.6	821.4	709.9	606.1	515.3	434.0	377.8	346.7	343.3
37.5°	1131.8	1014.2	888.0	765.2	652.8	549.9	463.4	400.3	365.7	362.3
40°	1213.9	1083.4	945.9	816.2	693.4	584.5	488.5	420.2	381.3	377.0
42.5°	1277.1	1143.0	999.5	859.4	728.9	610.4	511.0	435.8	393.4	387.4
45°	1340.2	1196.7	1045.3	897.5	760.0	635.5	529.2	449.6	404.6	397.7
47.5°	1392.1	1242.5	1082.5	928.6	786.0	657.1	544.7	459.1	411.6	404.6
50°	1441.3	1283.1	1117.1	957.1	809.3	676.1	557.7	466.9	415.9	409.0
52.5°	1479.4	1316.8	1144.8	979.6	828.3	690.0	568.1	472.1	418.5	410.7
55°	1511.4	1344.5	1167.3	996.9	843.0	702.1	575.8	474.7	418.5	410.7
57.5°	1538.2	1366.1	1185.4	1012.5	854.3	709.9	581.0	475.5	415.9	408.1
60°	1561.5	1386.0	1200.1	1024.6	864.6	717.6	584.5	475.5	413.3	404.6
62.5°	1580.5	1399.8	1211.4	1034.1	872.4	723.7	586.2	473.8	408.1	399.5
65°	1591.8	1409.4	1218.3	1039.3	876.7	725.4	586.2	471.2	402.9	394.3
67.5°	*1601.3*	*1415.4*	*1222.6*	*1041.9*	*879.3*	*727.2*	*585.4*	*466.9*	*397.7*	*389.1*
70°	1605.6	1418.0	1224.3	1043.6	881.1	726.3	582.8	463.4	392.5	382.2
72.5°	1606.5	1418.9	1223.5	1043.6	881.1	726.3	580.2	458.3	386.5	377.0
75°	1604.8	1416.3	1220.9	1042.7	880.2	723.7	577.6	453.9	381.3	370.9
77.5°	1599.6	1411.1	1216.5	1039.3	875.9	721.1	572.4	448.7	375.3	365.7
80°	1590.9	1402.4	1209.6	1033.2	870.7	715.9	568.1	443.6	370.1	360.6
82.5°	1578.0	1391.2	1201.0	1025.5	865.5	709.9	562.9	438.4	364.9	355.4
85°	1562.4	1377.4	1188.0	1015.9	857.7	702.9	556.0	432.3	359.7	350.2
87.5°	1540.8	1360.1	1174.2	1004.7	847.3	694.3	548.2	427.1	355.4	345.9
90°	1520.0	1341.0	1159.5	992.6	837.8	686.5	541.3	421.1	351.9	342.4
92.5°	1495.8	1318.6	1141.3	978.8	824.9	676.1	534.3	415.9	348.4	339.8
95°	1468.1	1294.4	1122.3	962.3	812.8	665.8	525.7	410.7	345.0	337.2
97.5°	1437.0	1268.4	1101.5	945.0	798.1	654.5	517.9	406.4	343.3	334.6
100°	1405.0	1239.0	1079.1	927.8	783.4	642.4	510.1	402.1	342.4	334.6
102.5°	1368.7	1212.2	1056.6	910.5	768.7	631.2	502.4	399.5	342.4	334.6
105°	1334.1	1181.1	1032.4	891.4	754.0	619.9	495.4	397.7	343.3	336.3
107.5°	1296.9	1151.7	1008.2	871.6	737.5	608.7	489.4	396.0	345.0	338.1
110°	1262.4	1123.2	985.7	852.5	722.8	598.3	483.3	395.1	346.7	340.7

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223987
CATALOG NUMBER: FFX-CLB-90-730-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1224.3	1092.0	960.6	831.8	707.3	586.2	477.3	393.4	348.4	343.3
115°	1184.5	1059.2	935.5	811.0	689.1	575.0	471.2	392.5	350.2	345.0
117.5°	1141.3	1023.7	905.3	786.8	670.1	561.1	462.6	389.1	350.2	345.0
120°	1094.6	986.5	872.4	760.9	648.5	544.7	453.9	384.8	348.4	344.1
122.5°	1043.6	942.5	834.4	728.0	624.3	525.7	441.0	377.0	344.1	339.8
125°	987.4	893.2	795.5	692.6	594.0	504.1	425.4	368.3	337.2	333.7
127.5°	928.6	842.2	748.8	655.4	565.5	480.7	409.0	355.4	327.7	324.2
130°	862.9	785.1	700.4	613.9	531.7	453.9	389.1	340.7	315.6	312.1
132.5°	799.8	728.9	652.8	575.8	496.3	428.0	367.5	324.2	302.6	299.2
135°	734.1	671.8	603.5	530.9	463.4	399.5	345.9	307.8	287.9	285.3
137.5°	670.1	617.3	553.4	489.4	429.7	371.8	325.1	292.2	274.1	272.4
140°	610.4	561.1	507.5	451.3	396.0	345.9	305.2	275.0	260.3	257.7
142.5°	552.5	510.1	461.7	414.2	363.1	320.8	285.3	258.5	246.4	244.7
145°	498.0	462.6	420.2	377.0	333.7	296.6	266.3	243.8	233.5	232.6
147.5°	447.0	417.6	380.4	344.1	307.8	276.7	249.0	231.7	222.2	221.3
150°	400.3	373.5	344.1	313.0	282.7	255.1	234.3	218.8	211.0	210.1
152.5°	356.2	335.5	311.3	286.2	260.3	238.6	219.6	208.4	202.3	201.5
155°	318.2	301.8	281.9	260.3	240.4	223.1	208.4	199.7	194.5	194.5
157.5°	286.2	272.4	257.7	240.4	223.9	210.1	199.7	191.9	187.6	187.6
160°	258.5	246.4	235.2	222.2	211.0	199.7	191.9	185.9	182.4	182.4
162.5°	235.2	226.5	217.9	208.4	198.9	191.9	185.0	180.7	179.0	178.1
165°	216.2	211.0	204.1	197.1	191.1	185.0	180.7	178.1	176.4	176.4
167.5°	201.5	198.0	192.8	188.5	184.2	179.8	177.2	175.5	174.7	174.7
170°	190.2	187.6	184.2	181.6	179.0	176.4	174.7	173.8	172.9	172.9
172.5°	181.6	179.0	177.2	176.4	174.7	173.8	172.9	172.1	172.1	172.1
175°	175.5	173.8	173.8	172.9	172.1	172.1	171.2	171.2	171.2	172.1
177.5°	171.2	171.2	171.2	171.2	171.2	172.1	172.1	172.1	172.9	172.9
180°	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

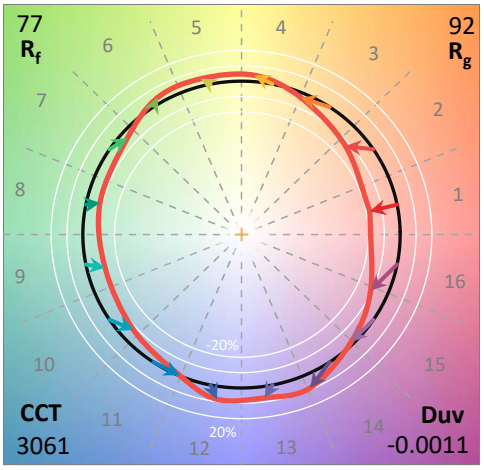
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-4
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-100-730-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3061
CIE u':	0.2489
CIE v':	0.5187
Duv:	-0.0011
CIE x:	0.4312
CIE y:	0.3995
CIE z:	0.1693
Peak Wavelength (nm):	592
Dominant Wavelength (nm):	582
Purity:	49.32381
Rf:	76.8
Rg:	92.2

CRI (Ra):	71.7
R1:	67.8
R2:	85.0
R3:	92.9
R4:	66.0
R5:	68.5
R6:	80.2
R7:	74.5
R8:	39.0
R9:	-40.3
R10:	67.2
R11:	61.6
R12:	59.9
R13:	71.4
R14:	96.3
R15:	58.8



Test Conditions

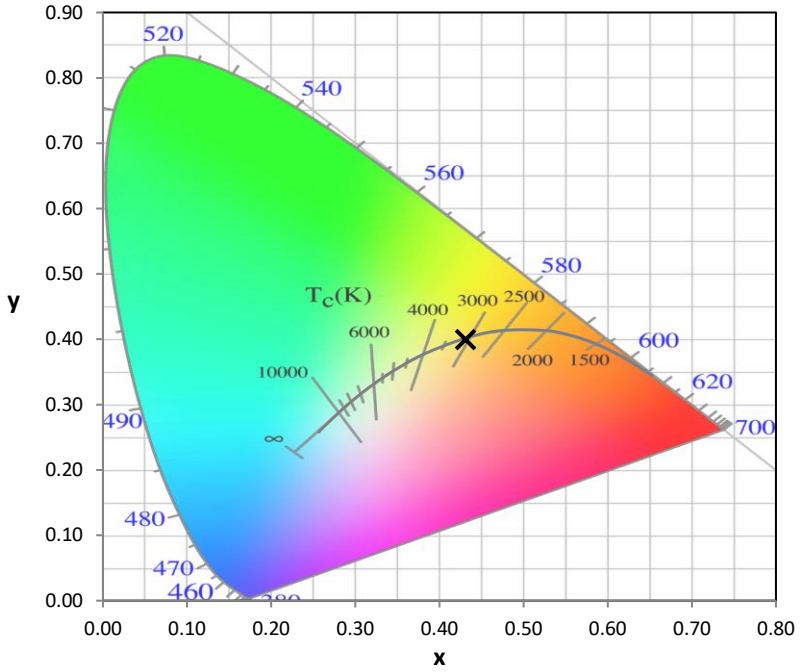
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

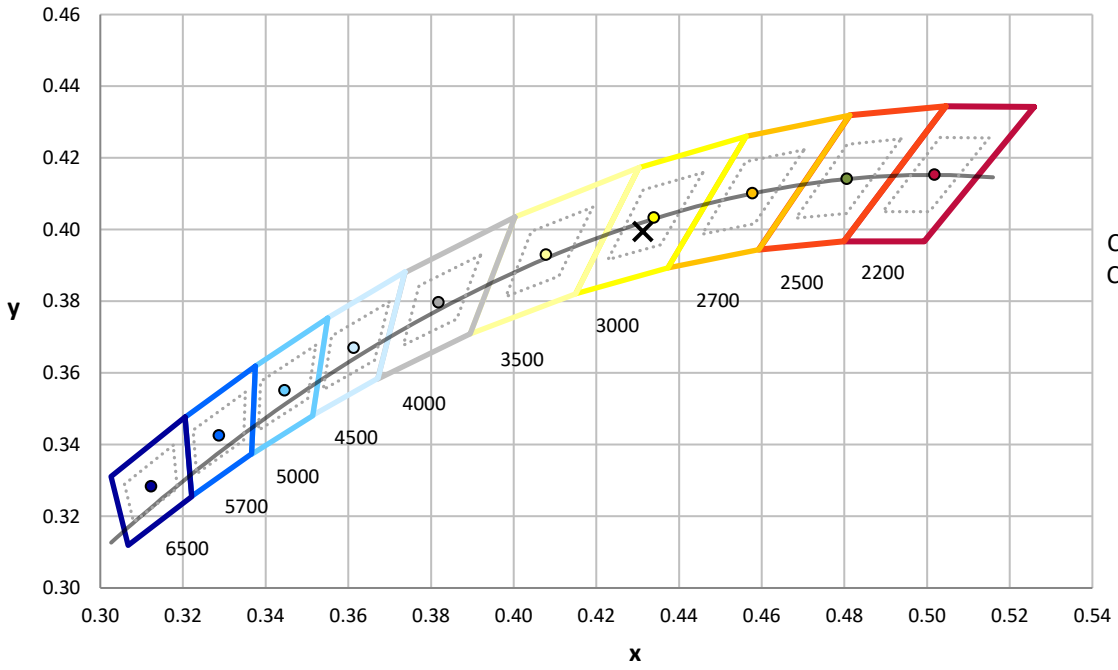
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



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

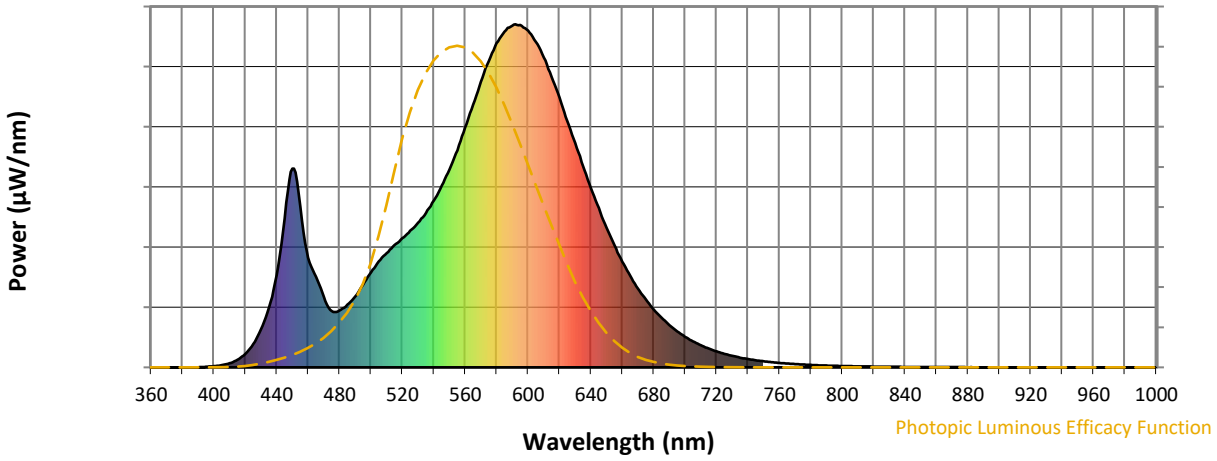


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

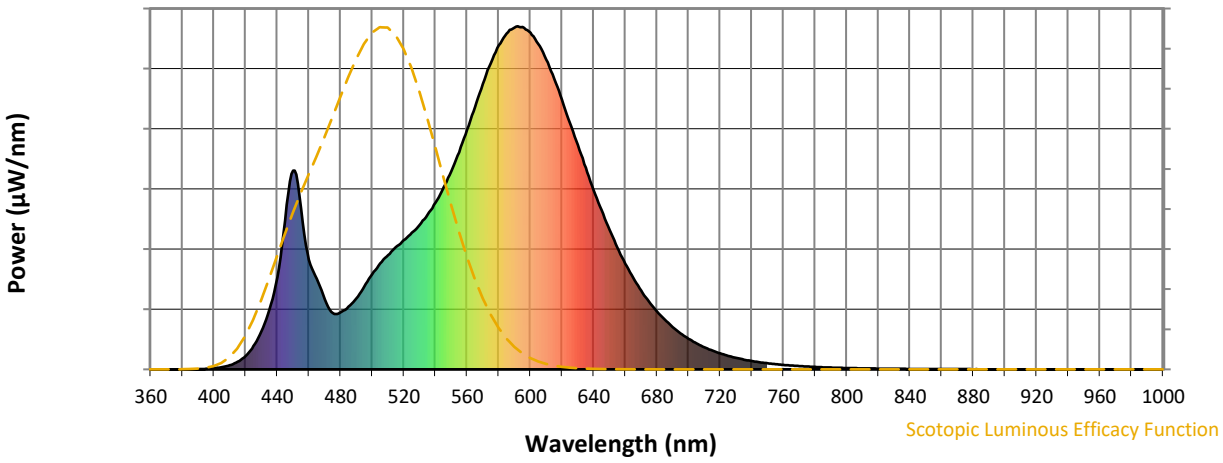


Photopic Lumens: NR

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

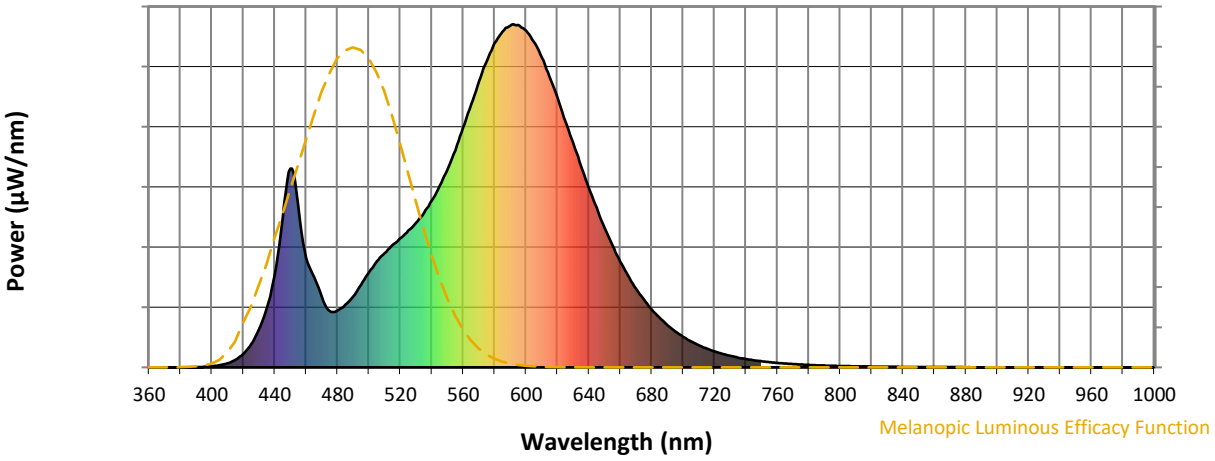


Scotopic Lumens: NR **S/P: 1.29**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

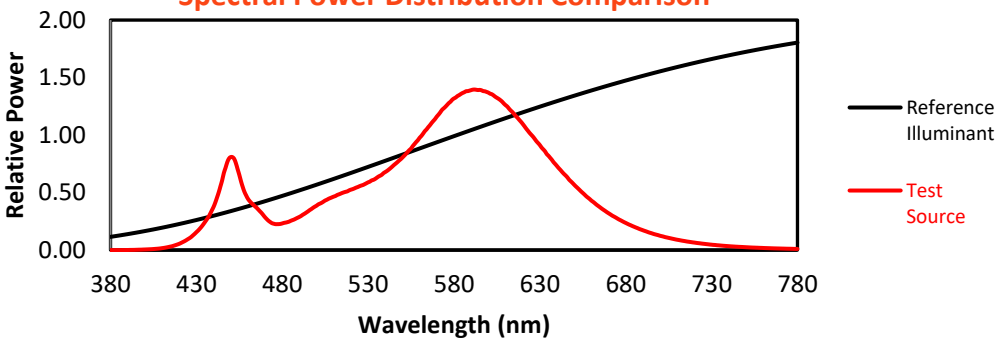
REPORT NUMBER: SP1-2501-332-4

TM-30-18

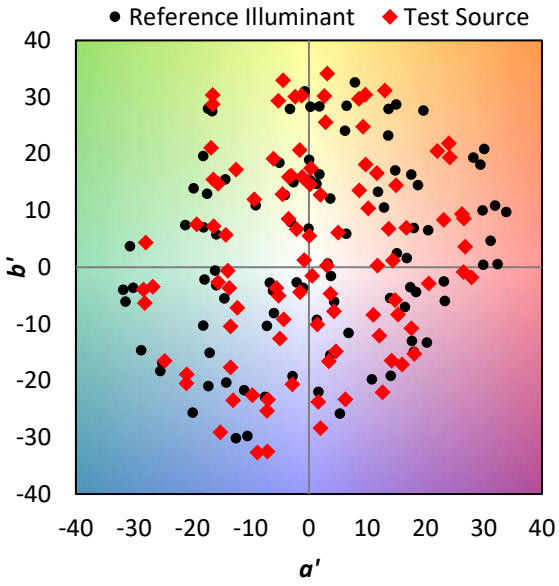
Summary

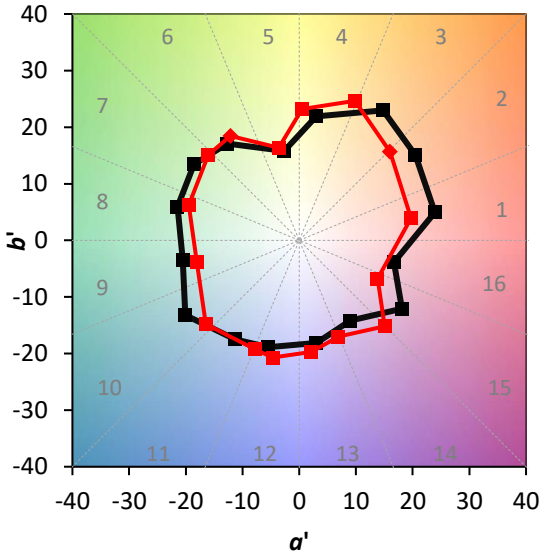
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

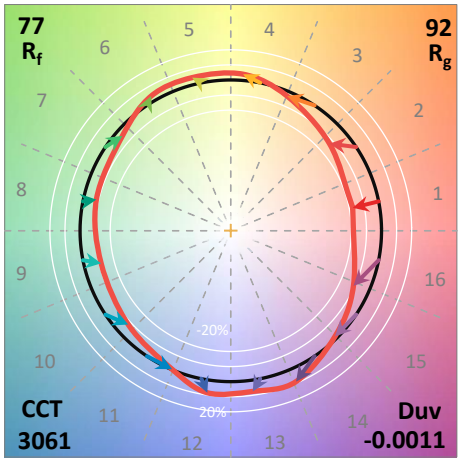
Spectral Power Distribution Comparison

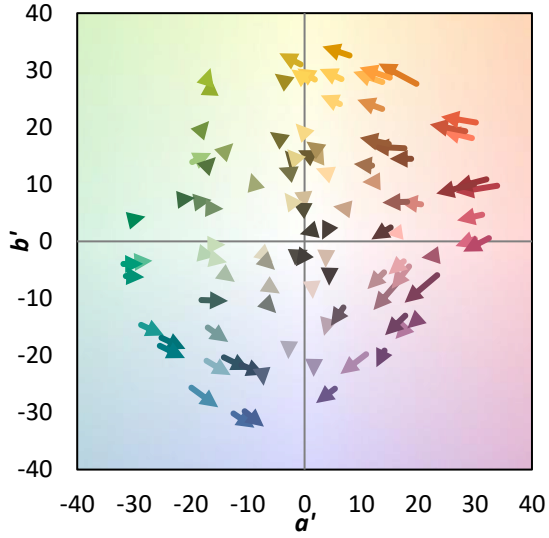


Color Vector Graphics







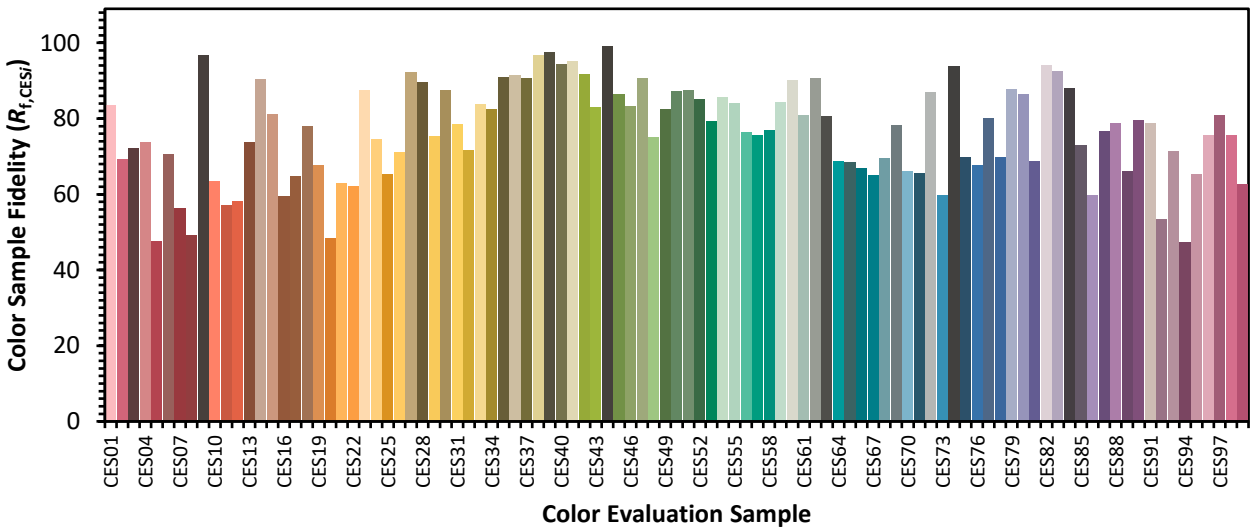


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

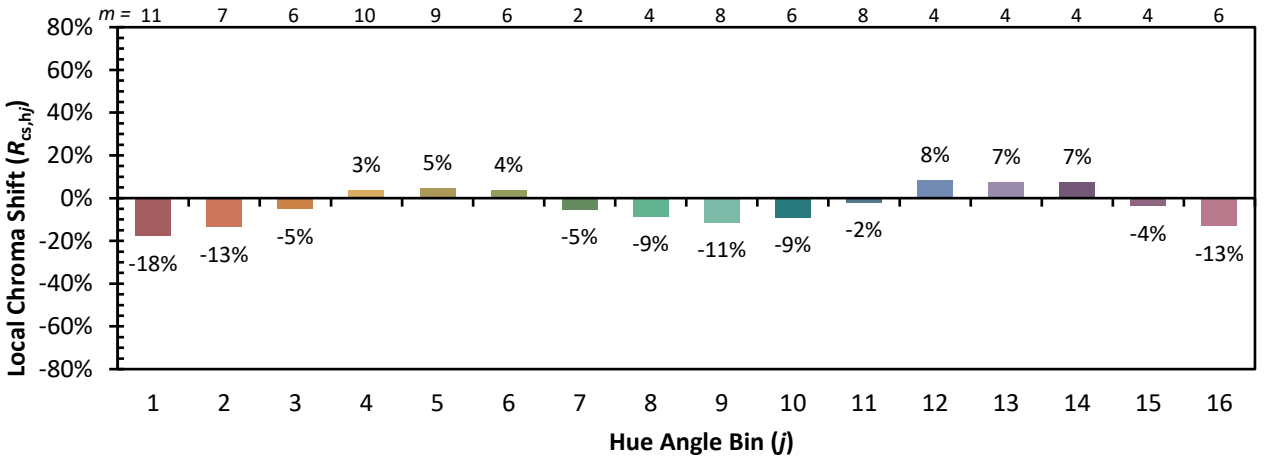
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 83	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 73
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 91	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 97	CES63 = 81	CES88 = 79
CES14 = 74	CES39 = 98	CES64 = 69	CES89 = 66
CES15 = 71	CES40 = 94	CES65 = 69	CES90 = 80
CES16 = 47	CES41 = 95	CES66 = 67	CES91 = 79
CES17 = 50	CES42 = 92	CES67 = 65	CES92 = 53
CES18 = 56	CES43 = 83	CES68 = 70	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 66	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 60	CES98 = 76
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 63
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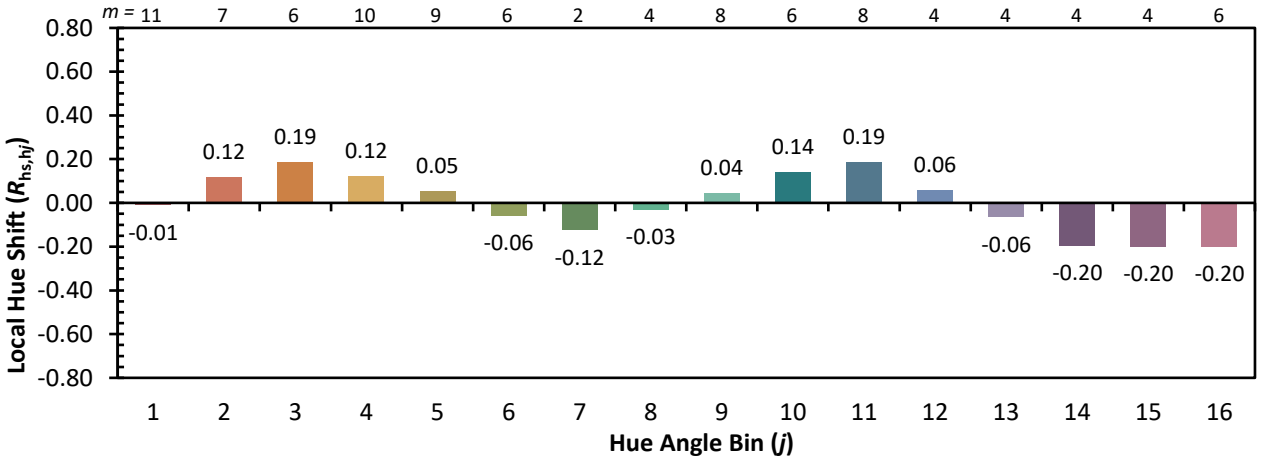


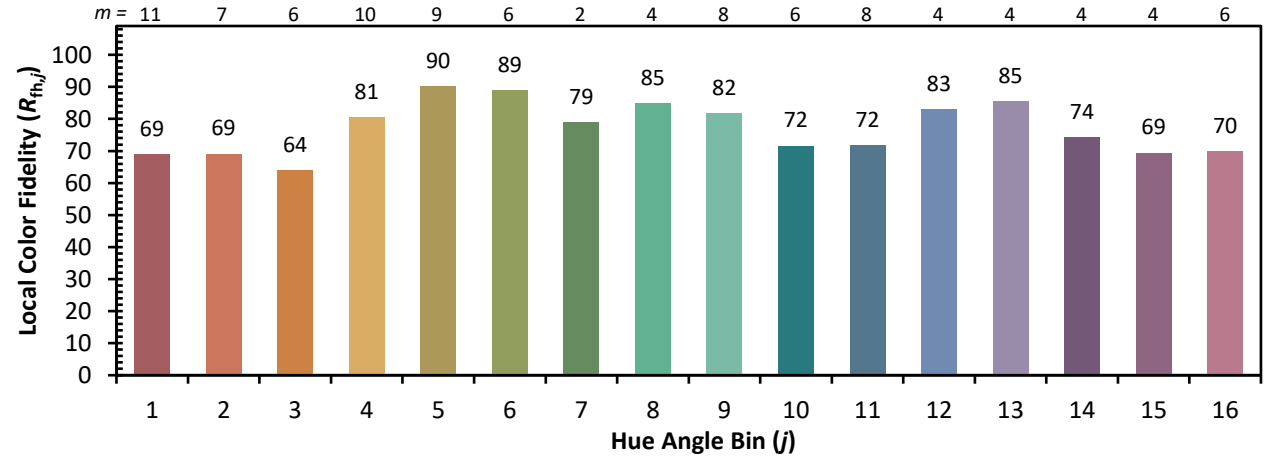
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Color Rendition by Hue-Angle Bin



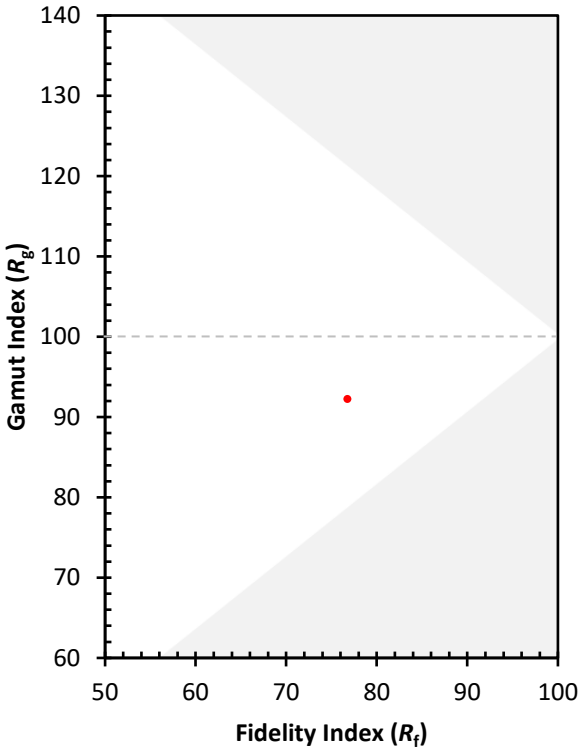


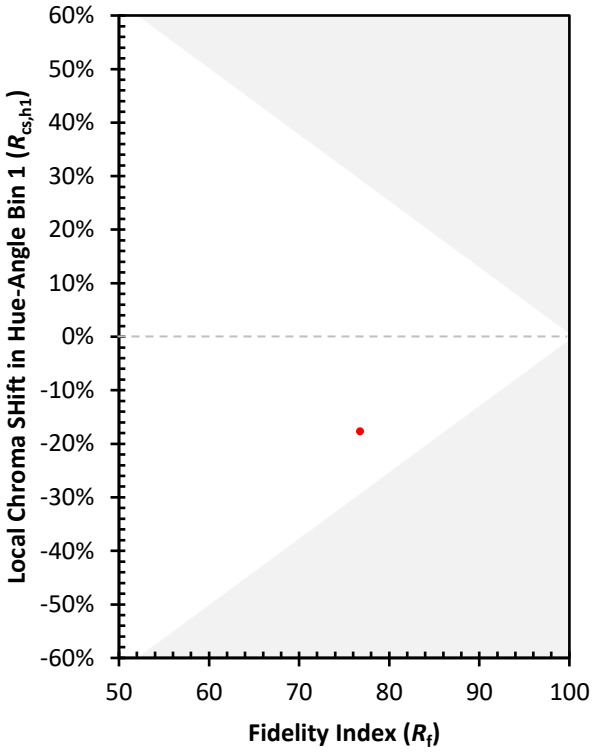


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Measure Comparisons





(END OF REPORT)