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: P1223996

Luminaire Tested: **FFX-CLB-90-740-U-VM8-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223996
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-90-740-U-VM8-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14337.5 lumens
Efficiency:	N/A
Efficacy:	158.3 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

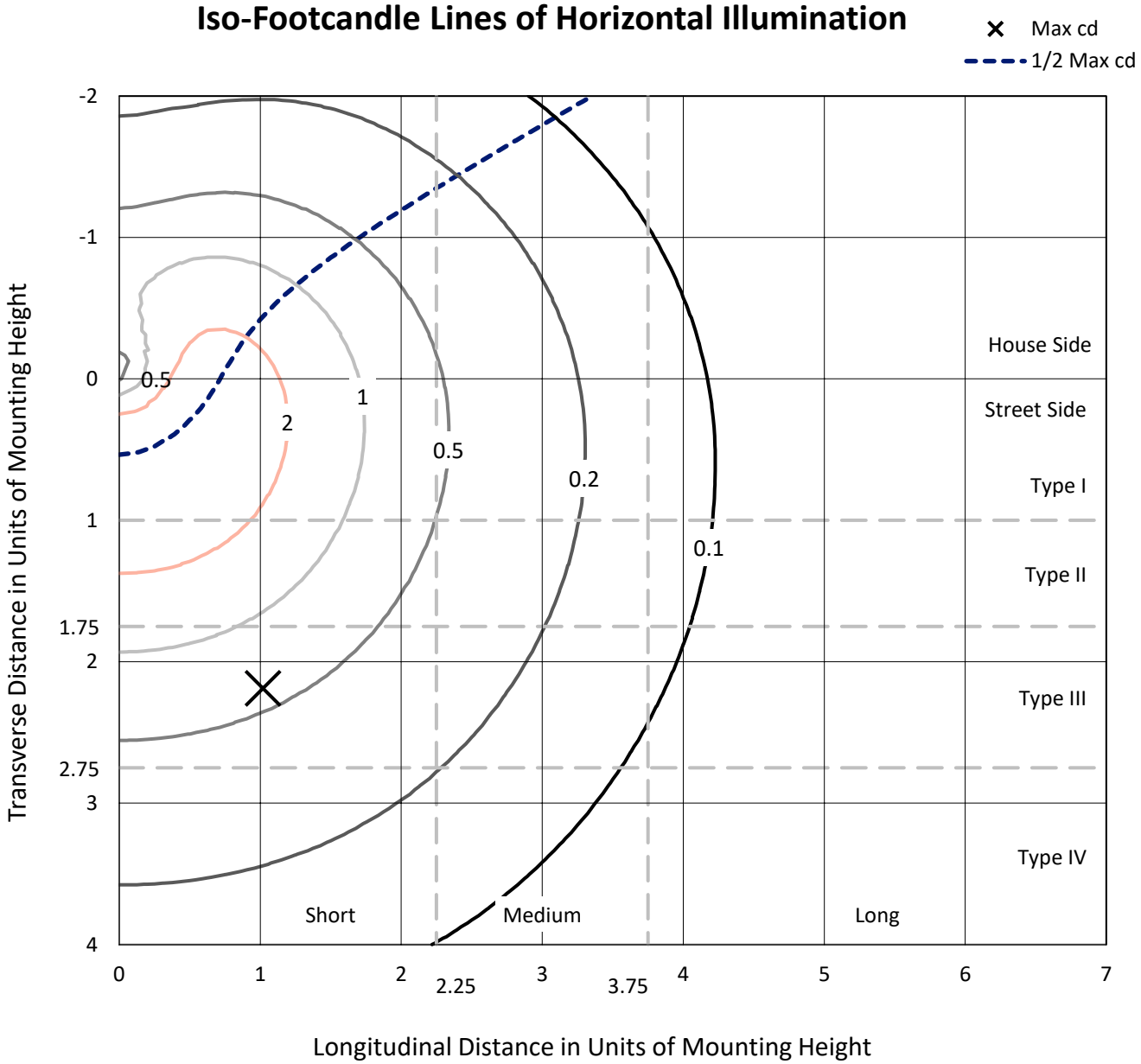


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Iso-Footcandle Lines of Horizontal Illumination



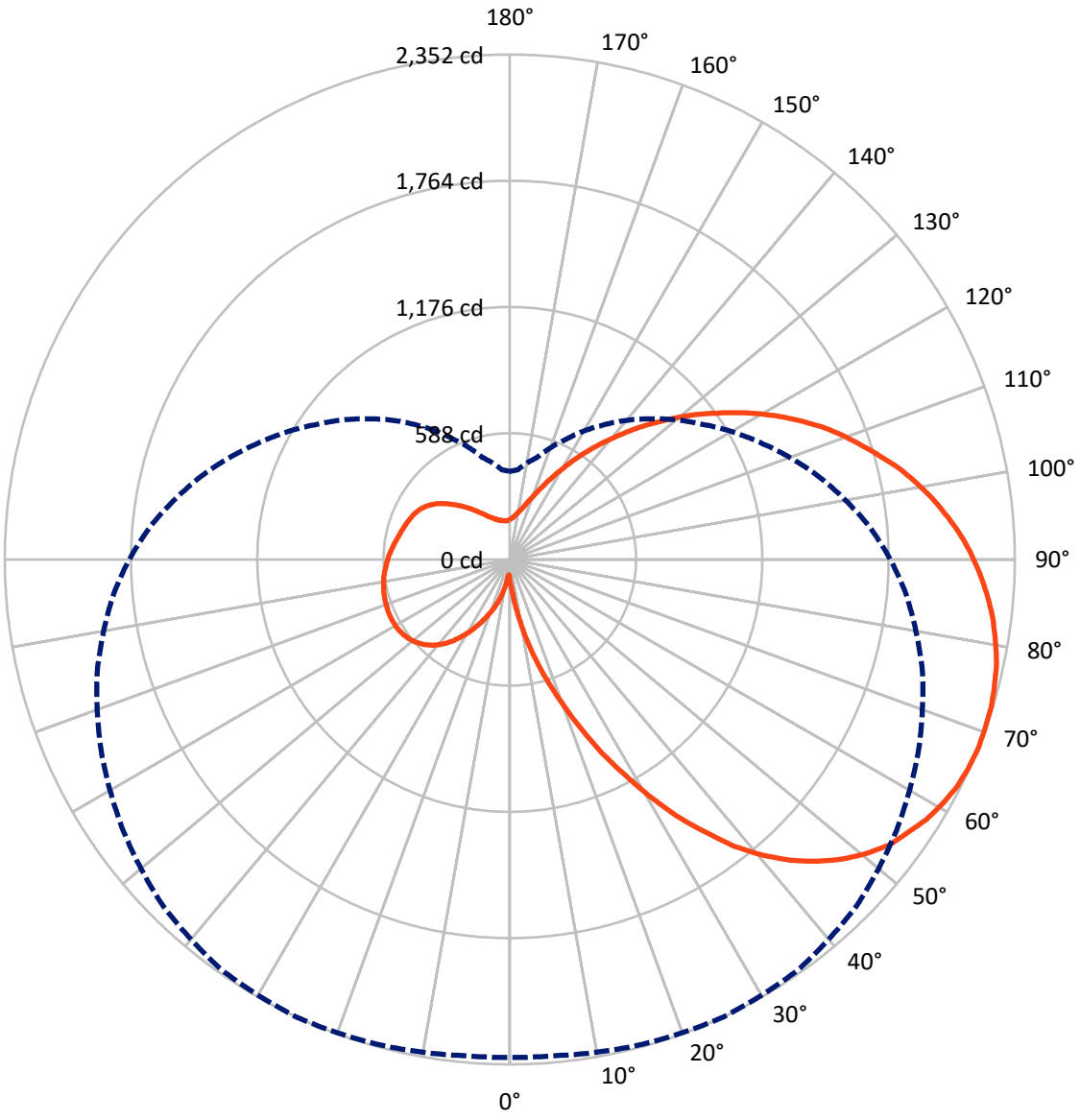
Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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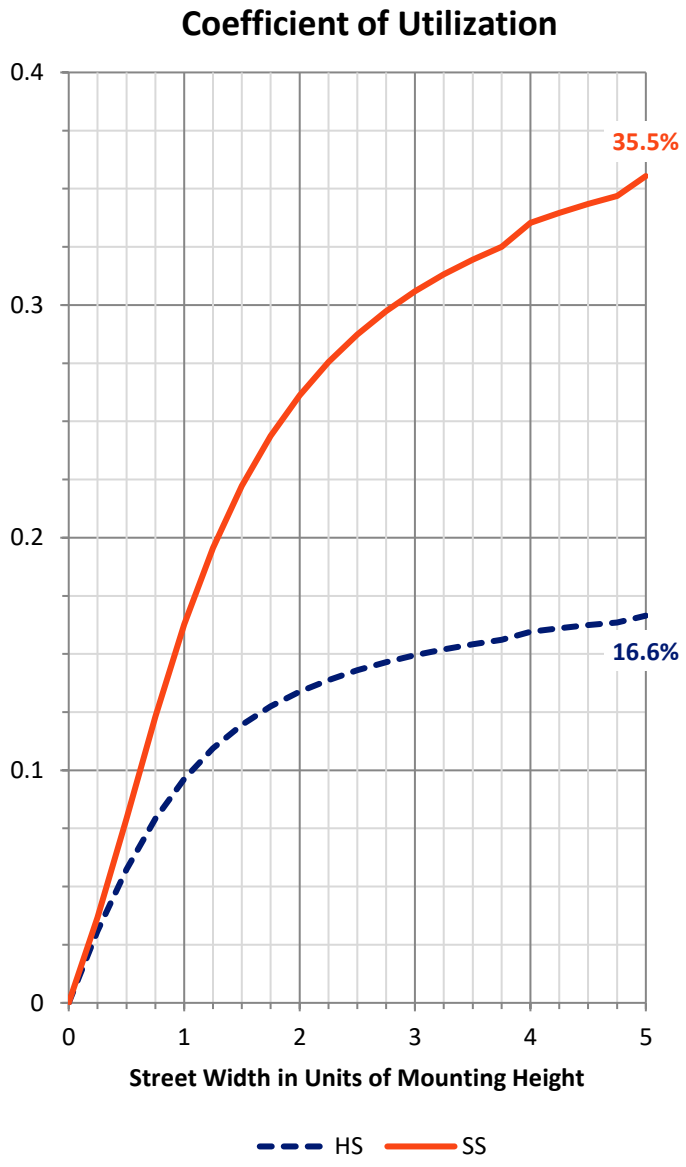
REPORT NUMBER: P1223996
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2625.7	2007.0	4632.8
	% Fixture	18.3	14.0	32.3
Street Side	Lumens	5801.9	3902.8	9704.7
	% Fixture	40.5	27.2	67.7
Total	Lumens	8427.6	5909.9	14337.5
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	0.1
10°-20°	109.1	0.8
20°-30°	326.6	2.3
30°-40°	672.1	4.7
40°-50°	1049.5	7.3
50°-60°	1359.3	9.5
60°-70°	1567.3	10.9
70°-80°	1667.6	11.6
80°-90°	1660.4	11.6
90°-100°	1549.0	10.8
100°-110°	1354.0	9.4
110°-120°	1108.8	7.7
120°-130°	824.6	5.8
130°-140°	536.3	3.7
140°-150°	303.8	2.1
150°-160°	149.7	1.0
160°-170°	65.4	0.5
170°-180°	18.4	0.1
0°-90°	8427.6	58.8
0°-180°	14337.5	100.0



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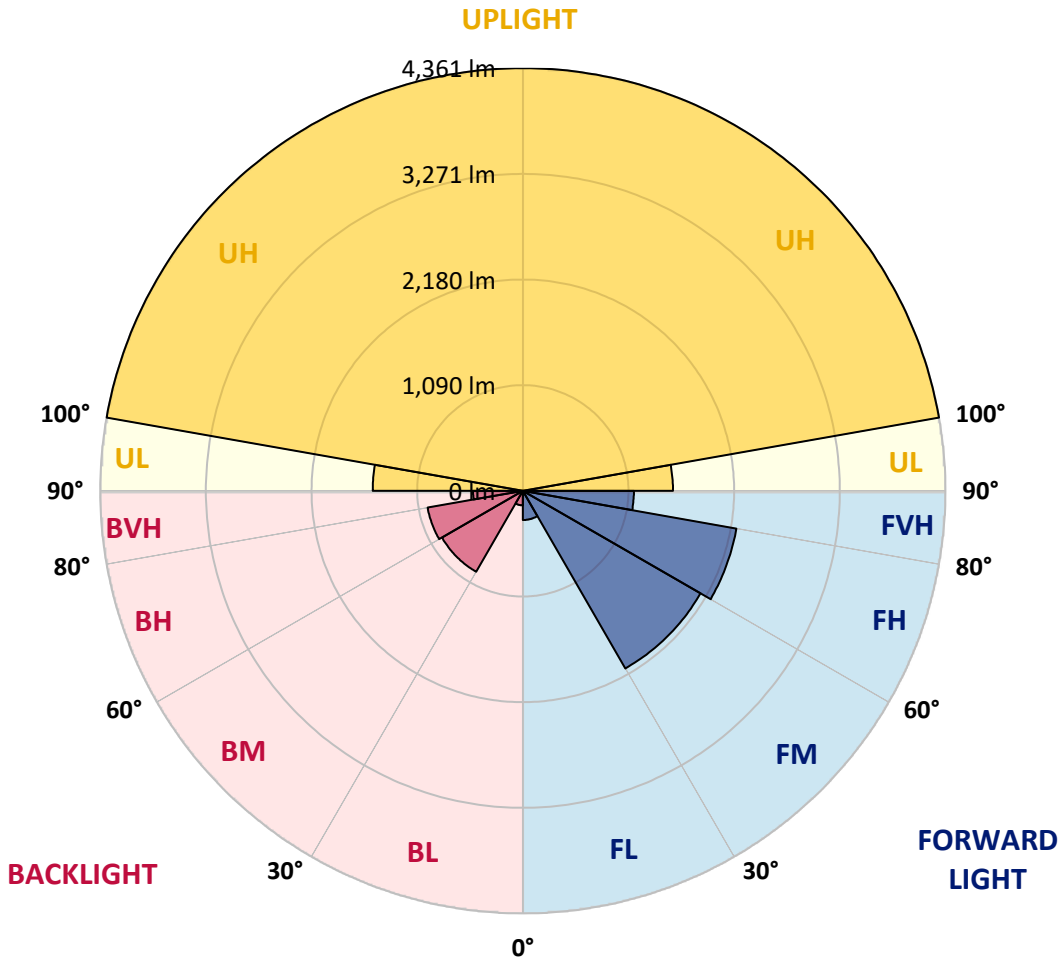
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	301.2	2.1			
FM	(30°-60°)	2116.9	14.8			
FH	(60°-80°)	2237.7	15.6			G2/5000
FVH	(80°-90°)	1146.1	8.0			G5
BL	(0°-30°)	150.2	1.0	B1/500		
BM	(30°-60°)	964.0	6.7	B1/1000		
BH	(60°-80°)	997.3	7.0	B2/1000		G2/1000
BVH	(80°-90°)	514.3	3.6			G4/750
UL	(90°-100°)	1549.0	10.8		U5	
UH	(100°-180°)	4360.9	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°	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8
2.5°	123.8	123.8	124.7	124.7	122.9	123.8	122.0	119.2	117.4	112.9	111.0
5°	180.2	177.5	178.4	176.6	172.9	171.1	163.8	158.4	149.3	139.3	134.7
7.5°	250.3	251.2	247.6	243.0	242.1	232.1	230.3	213.0	205.7	188.4	183.8
10°	336.8	334.9	331.3	330.4	322.2	312.2	296.7	287.6	263.9	251.2	241.2
12.5°	431.4	432.3	425.9	419.6	412.3	398.6	377.7	363.1	344.0	317.6	304.9
15°	533.3	529.7	529.7	522.4	511.5	496.0	479.6	458.7	431.4	403.2	385.0
17.5°	628.0	635.3	632.5	623.4	613.4	594.3	577.0	547.9	517.9	486.9	464.2
20°	746.3	748.1	743.6	735.4	726.3	704.4	683.5	654.4	617.1	568.8	549.7
22.5°	865.5	869.2	869.2	864.6	851.9	832.8	799.1	767.2	720.8	672.6	640.7
25°	1003.0	1000.2	1003.0	1000.2	979.3	962.0	927.4	889.2	839.1	780.0	741.8
27.5°	1141.3	1145.0	1137.7	1131.3	1123.1	1095.8	1058.5	1010.3	947.5	885.6	844.6
30°	1276.0	1284.2	1284.2	1276.9	1264.2	1236.9	1195.0	1143.1	1074.0	995.7	947.5
32.5°	1417.1	1419.8	1423.5	1422.5	1408.0	1381.6	1335.2	1265.1	1187.7	1101.3	1053.9
35°	1566.4	1558.2	1560.0	1554.5	1548.1	1515.4	1461.7	1394.3	1310.6	1214.1	1156.8
37.5°	1690.1	1686.5	1689.2	1693.8	1676.5	1642.8	1580.9	1502.6	1410.7	1309.7	1252.4
40°	1807.5	1804.8	1809.4	1810.3	1793.0	1753.8	1688.3	1612.8	1513.6	1397.1	1343.4
42.5°	1905.8	1905.8	1910.4	1915.8	1897.6	1855.8	1789.3	1699.2	1597.3	1479.9	1414.4
45°	1996.8	1994.1	2003.2	2005.9	1987.7	1945.9	1871.2	1780.2	1671.0	1551.8	1483.5
47.5°	2069.7	2070.6	2079.7	2085.1	2068.7	2021.4	1945.9	1849.4	1735.6	1610.9	1540.9
50°	2129.7	2137.9	2146.1	2152.5	2135.2	2087.9	2009.6	1904.9	1791.2	1665.6	1592.7
52.5°	2189.8	2189.8	2202.5	2210.7	2191.6	2142.5	2060.6	1958.6	1842.1	1709.2	1638.3
55°	2228.0	2228.9	2244.4	2247.1	2235.3	2184.3	2100.6	1998.7	1882.2	1748.4	1672.8
57.5°	2261.7	2262.6	2279.9	2286.3	2269.9	2220.7	2135.2	2029.6	1915.8	1779.3	1702.9
60°	2290.8	2289.9	2304.5	2313.6	2297.2	2245.3	2161.6	2058.7	1942.2	1807.5	1728.4
62.5°	2309.0	2309.0	2326.3	2335.4	2318.1	2267.2	2181.6	2079.7	1963.2	1826.7	1748.4
65°	2317.2	2319.0	2335.4	2346.3	2330.0	2278.1	2192.5	2092.4	1977.7	1842.1	1762.9
67.5°	2319.9	2320.9	2340.9	2351.8	2336.3	2283.5	2198.9	2100.6	1988.7	1852.1	1772.0
70°	2321.8	2322.7	2338.2	2349.1	2335.4	2282.6	2200.7	2104.2	1995.0	1857.6	1777.5
72.5°	2311.8	2314.5	2331.8	2344.5	2328.1	2276.3	2196.2	2104.2	1994.1	1861.2	1779.3
75°	2299.0	2305.4	2320.9	2331.8	2317.2	2267.2	2188.9	2100.6	1993.2	1859.4	1779.3
77.5°	2286.3	2287.2	2307.2	2317.2	2301.7	2250.8	2176.1	2091.5	1987.7	1854.0	1773.0
80°	2260.8	2266.2	2283.5	2292.6	2279.0	2230.8	2157.9	2078.8	1977.7	1844.9	1762.9
82.5°	2242.6	2240.8	2258.1	2266.2	2252.6	2202.5	2137.0	2058.7	1963.2	1829.4	1749.3
85°	2208.0	2211.6	2225.3	2232.6	2217.1	2171.6	2108.8	2038.7	1943.1	1812.1	1731.1
87.5°	2175.2	2177.1	2186.2	2194.3	2178.9	2135.2	2076.9	2010.5	1918.6	1790.2	1711.1
90°	2134.3	2135.2	2145.2	2151.6	2137.9	2097.0	2043.3	1978.6	1892.2	1765.7	1686.5
92.5°	2096.1	2094.2	2101.5	2104.2	2092.4	2052.4	2004.1	1944.1	1860.3	1735.6	1659.2
95°	2046.0	2045.1	2051.5	2049.6	2036.9	2002.3	1958.6	1905.8	1823.0	1703.8	1628.2
97.5°	1990.5	1991.4	1995.0	1993.2	1979.6	1947.7	1914.0	1861.2	1784.8	1666.5	1593.7
100°	1928.6	1931.3	1936.8	1931.3	1919.5	1895.8	1860.3	1816.6	1741.1	1629.2	1557.3
102.5°	1876.7	1869.4	1867.6	1866.7	1854.9	1833.9	1806.6	1768.4	1698.3	1588.2	1519.0
105°	1808.4	1803.9	1803.0	1793.0	1788.4	1771.1	1748.4	1713.8	1651.0	1547.2	1479.9
107.5°	1736.5	1737.5	1733.8	1722.0	1715.6	1703.8	1691.0	1660.1	1600.0	1501.7	1439.8
110°	1671.9	1667.4	1657.4	1651.9	1647.4	1637.3	1629.2	1605.5	1550.0	1458.0	1396.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1591.8	1594.6	1582.7	*1579.1*	1571.8	1570.9	1565.4	1546.3	1497.2	1411.6	1353.4
115°	1519.9	1518.1	1506.3	*1499.0*	1496.3	1498.1	1501.7	1488.1	1442.6	1361.6	1307.9
117.5°	1440.8	1435.3	1427.1	*1419.8*	1416.2	1423.5	1431.7	1425.3	1387.1	1310.6	1259.6
120°	1356.1	1357.0	1345.2	*1337.9*	1338.8	1350.6	1361.6	1357.9	1321.5	1253.3	1207.8
122.5°	1276.9	1272.4	1262.4	*1255.1*	1261.5	1274.2	1286.9	1286.0	1254.2	1187.7	1146.8
125°	1190.5	1189.6	1179.5	*1172.3*	1177.7	1192.3	1207.8	1209.6	1179.5	1124.0	1083.1
127.5°	1108.6	1105.8	1104.0	*1095.8*	1099.4	1119.5	1130.4	1129.5	1103.1	1052.1	1016.6
130°	1030.3	1029.4	1018.4	*1014.8*	1019.4	1035.7	1046.7	1044.8	1023.9	979.3	947.5
132.5°	951.1	947.5	942.9	*937.4*	941.1	954.7	969.3	967.5	942.9	900.1	874.6
135°	872.8	870.1	866.5	*862.8*	865.5	879.2	891.9	888.3	867.4	829.1	803.7
137.5°	800.9	798.2	793.6	*789.1*	792.7	803.7	811.8	809.1	791.8	755.4	730.8
140°	726.3	728.1	722.7	*719.0*	720.8	731.8	738.1	734.5	715.4	685.3	665.3
142.5°	658.0	658.0	655.3	*654.4*	657.1	662.6	668.0	660.8	648.0	617.1	600.7
145°	592.5	593.4	592.5	*590.7*	591.6	598.0	598.9	596.1	581.6	558.8	540.6
147.5°	530.6	533.3	531.5	*531.5*	532.4	535.2	538.8	532.4	519.7	499.7	486.9
150°	473.3	475.1	475.1	*473.3*	473.3	476.9	476.9	472.4	462.4	446.0	434.1
152.5°	423.2	424.1	424.1	*422.3*	423.2	424.1	422.3	416.8	408.7	395.9	386.8
155°	377.7	379.5	376.8	*377.7*	375.0	375.9	375.0	371.3	362.2	351.3	345.9
157.5°	336.8	339.5	337.7	*337.7*	335.8	334.9	334.0	330.4	324.0	314.9	308.5
160°	304.0	305.8	303.1	*303.1*	301.3	301.3	297.6	295.8	289.4	281.2	277.6
162.5°	275.8	275.8	274.9	*275.8*	274.9	272.1	270.3	266.7	261.2	254.8	252.1
165°	253.0	252.1	252.1	*251.2*	250.3	248.5	245.7	243.9	238.5	233.0	231.2
167.5°	235.7	234.8	233.9	*233.0*	231.2	230.3	227.5	225.7	221.2	216.6	214.8
170°	221.2	221.2	219.3	*218.4*	217.5	215.7	213.0	210.2	206.6	203.9	202.1
172.5°	208.4	208.4	207.5	*206.6*	205.7	203.9	201.1	199.3	196.6	193.9	192.0
175°	199.3	199.3	198.4	*196.6*	195.7	193.9	192.0	190.2	187.5	185.7	184.8
177.5°	192.0	192.0	192.0	*190.2*	189.3	187.5	185.7	183.8	182.9	181.1	181.1
180°	182.9	182.9	182.9	*182.9*	182.9	182.9	182.9	182.9	182.9	182.9	182.9

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8
2.5°	108.3	102.8	98.3	91.0	84.6	79.2	75.5	72.8	71.0	69.2
5°	129.2	119.2	109.2	98.3	88.3	79.2	71.9	66.4	63.7	63.7
7.5°	176.6	161.1	143.8	128.3	116.5	104.7	93.7	87.4	83.7	81.9
10°	231.2	208.4	191.1	172.0	151.1	136.5	123.8	115.6	111.0	111.9
12.5°	296.7	268.5	246.6	218.4	195.7	172.9	159.3	147.4	142.0	141.1
15°	369.5	336.8	304.9	271.2	241.2	214.8	194.8	179.3	170.2	169.3
17.5°	446.0	405.0	362.2	324.0	284.9	252.1	224.8	206.6	196.6	196.6
20°	523.3	476.9	426.9	376.8	329.5	289.4	257.6	233.9	221.2	219.3
22.5°	612.5	553.4	493.3	432.3	378.6	328.6	287.6	259.4	245.7	243.0
25°	709.9	639.8	567.9	496.0	429.6	369.5	322.2	290.3	271.2	268.5
27.5°	810.9	726.3	641.6	557.9	480.6	414.1	356.8	315.8	296.7	294.0
30°	910.1	817.3	719.0	620.7	533.3	456.9	391.4	344.0	320.4	316.7
32.5°	1007.5	901.9	793.6	684.4	588.9	499.7	423.2	372.2	343.1	339.5
35°	1100.4	991.1	864.6	747.2	638.0	542.4	456.9	397.7	365.0	361.3
37.5°	1191.4	1067.6	934.7	805.5	687.2	578.8	487.8	421.4	385.0	381.3
40°	1277.8	1140.4	995.7	859.2	729.9	615.3	514.2	442.3	401.4	396.8
42.5°	1344.3	1203.2	1052.1	904.7	767.2	642.6	537.9	458.7	414.1	407.7
45°	1410.7	1259.6	1100.4	944.7	800.0	669.0	557.0	473.3	425.9	418.7
47.5°	1465.3	1307.9	1139.5	977.5	827.3	691.7	573.4	483.3	433.2	425.9
50°	1517.2	1350.6	1175.9	1007.5	851.9	711.7	587.0	491.5	437.8	430.5
52.5°	1557.3	1386.1	1205.0	1031.2	871.9	726.3	598.0	496.9	440.5	432.3
55°	1590.9	1415.3	1228.7	1049.4	887.4	739.0	606.2	499.7	440.5	432.3
57.5°	1619.1	1438.0	1247.8	1065.8	899.2	747.2	611.6	500.6	437.8	429.6
60°	1643.7	1459.0	1263.3	1078.5	910.1	755.4	615.3	500.6	435.0	425.9
62.5°	1663.7	1473.5	1275.1	1088.5	918.3	761.8	617.1	498.8	429.6	420.5
65°	1675.6	1483.5	1282.4	1094.0	922.9	763.6	617.1	496.0	424.1	415.0
67.5°	*1685.6*	*1489.9*	*1286.9*	*1096.7*	*925.6*	*765.4*	*616.2*	*491.5*	*418.7*	*409.6*
70°	1690.1	1492.6	1288.8	1098.5	927.4	764.5	613.4	487.8	413.2	402.3
72.5°	1691.0	1493.5	1287.8	1098.5	927.4	764.5	610.7	482.4	406.8	396.8
75°	1689.2	1490.8	1285.1	1097.6	926.5	761.8	608.0	477.8	401.4	390.5
77.5°	1683.8	1485.3	1280.6	1094.0	922.0	759.1	602.5	472.4	395.0	385.0
80°	1674.7	1476.2	1273.3	1087.6	916.5	753.6	598.0	466.9	389.5	379.5
82.5°	1661.0	1464.4	1264.2	1079.4	911.1	747.2	592.5	461.4	384.1	374.1
85°	1644.6	1449.9	1250.5	1069.4	902.9	739.9	585.2	455.1	378.6	368.6
87.5°	1621.9	1431.7	1236.0	1057.6	891.9	730.8	577.0	449.6	374.1	364.1
90°	1600.0	1411.6	1220.5	1044.8	881.9	722.7	569.7	443.2	370.4	360.4
92.5°	1574.5	1388.0	1201.4	1030.3	868.3	711.7	562.5	437.8	366.8	357.7
95°	1545.4	1362.5	1181.4	1013.0	855.5	700.8	553.4	432.3	363.1	355.0
97.5°	1512.7	1335.2	1159.5	994.8	840.1	689.0	545.2	427.8	361.3	352.2
100°	1479.0	1304.2	1135.9	976.6	824.6	676.2	537.0	423.2	360.4	352.2
102.5°	1440.8	1276.0	1112.2	958.4	809.1	664.4	528.8	420.5	360.4	352.2
105°	1404.3	1243.3	1086.7	938.4	793.6	652.6	521.5	418.7	361.3	354.0
107.5°	1365.2	1212.3	1061.2	917.4	776.3	640.7	515.1	416.8	363.1	355.9
110°	1328.8	1182.3	1037.6	897.4	760.9	629.8	508.8	415.9	365.0	358.6

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

Scaled Data Report

REPORT NUMBER: P1223996
CATALOG NUMBER: FFX-CLB-90-740-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1288.8	1149.5	1011.2	875.6	744.5	617.1	502.4	414.1	366.8	361.3
115°	1246.9	1114.9	984.8	853.7	725.4	605.2	496.0	413.2	368.6	363.1
117.5°	1201.4	1077.6	952.9	828.2	705.4	590.7	486.9	409.6	368.6	363.1
120°	1152.2	1038.5	918.3	800.9	682.6	573.4	477.8	405.0	366.8	362.2
122.5°	1098.5	992.1	878.3	766.3	657.1	553.4	464.2	396.8	362.2	357.7
125°	1039.4	940.2	837.3	729.0	625.3	530.6	447.8	387.7	355.0	351.3
127.5°	977.5	886.5	788.2	689.9	595.2	506.0	430.5	374.1	344.9	341.3
130°	908.3	826.4	737.2	646.2	559.7	477.8	409.6	358.6	332.2	328.6
132.5°	841.9	767.2	687.2	606.2	522.4	450.5	386.8	341.3	318.5	314.9
135°	772.7	707.2	635.3	558.8	487.8	420.5	364.1	324.0	303.1	300.3
137.5°	705.4	649.8	582.5	515.1	452.3	391.4	342.2	307.6	288.5	286.7
140°	642.6	590.7	534.3	475.1	416.8	364.1	321.3	289.4	274.0	271.2
142.5°	581.6	537.0	486.0	436.0	382.3	337.7	300.3	272.1	259.4	257.6
145°	524.2	486.9	442.3	396.8	351.3	312.2	280.3	256.7	245.7	244.8
147.5°	470.5	439.6	400.5	362.2	324.0	291.2	262.1	243.9	233.9	233.0
150°	421.4	393.2	362.2	329.5	297.6	268.5	246.6	230.3	222.1	221.2
152.5°	375.0	353.1	327.7	301.3	274.0	251.2	231.2	219.3	213.0	212.1
155°	334.9	317.6	296.7	274.0	253.0	234.8	219.3	210.2	204.8	204.8
157.5°	301.3	286.7	271.2	253.0	235.7	221.2	210.2	202.1	197.5	197.5
160°	272.1	259.4	247.6	233.9	222.1	210.2	202.1	195.7	192.0	192.0
162.5°	247.6	238.5	229.4	219.3	209.3	202.1	194.8	190.2	188.4	187.5
165°	227.5	222.1	214.8	207.5	201.1	194.8	190.2	187.5	185.7	185.7
167.5°	212.1	208.4	203.0	198.4	193.9	189.3	186.6	184.8	183.8	183.8
170°	200.2	197.5	193.9	191.1	188.4	185.7	183.8	182.9	182.0	182.0
172.5°	191.1	188.4	186.6	185.7	183.8	182.9	182.0	181.1	181.1	181.1
175°	184.8	182.9	182.9	182.0	181.1	181.1	180.2	180.2	180.2	181.1
177.5°	180.2	180.2	180.2	180.2	180.2	181.1	181.1	181.1	182.0	182.0
180°	182.9	182.9	182.9	182.9	182.9	182.9	182.9	182.9	182.9	182.9

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: SP1-2501-332-1

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

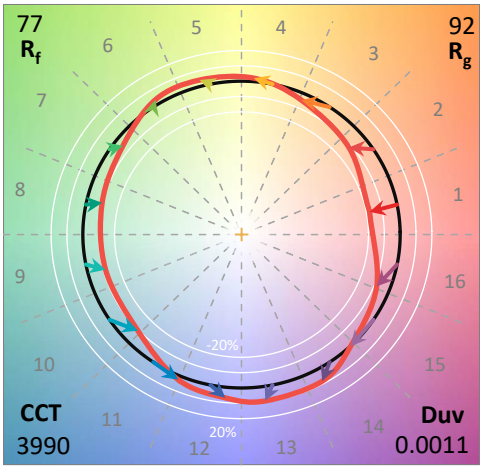
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-1
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-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3990	CRI (Ra):	73.9		
CIE u':	0.2247	R1:	69.6	R9:	-36.4
CIE v':	0.5031	R2:	83.0	R10:	60.9
Duv:	0.0011	R3:	93.1	R11:	66.8
CIE x:	0.3816	R4:	70.6	R12:	52.5
CIE y:	0.3798	R5:	70.6	R13:	72.5
CIE z:	0.2386	R6:	76.4	R14:	96.4
Peak Wavelength (nm):	450	R7:	79.8	R15:	61.3
Dominant Wavelength (nm):	578	R8:	48.1		
Purity:	28.50862				

Rf:	77.5
Rg:	91.9



Test Conditions

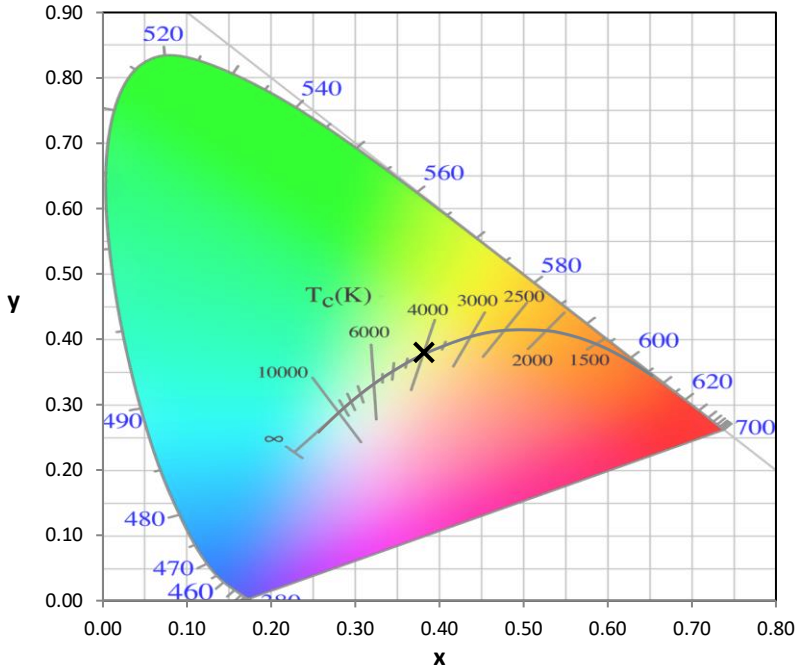
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

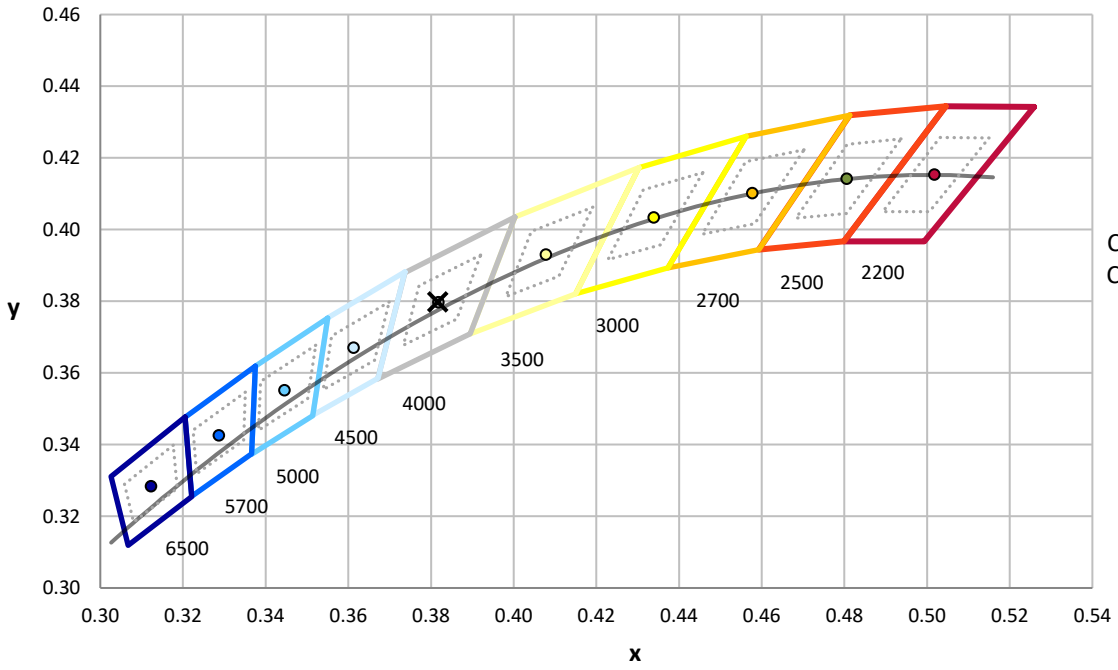
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-1

CIE 1931 Chromaticity Diagram



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

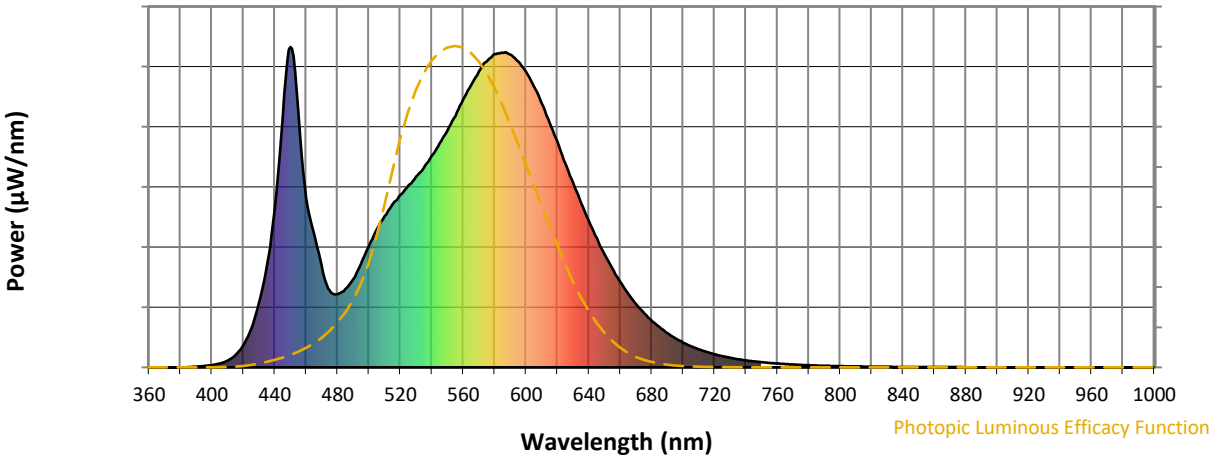


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

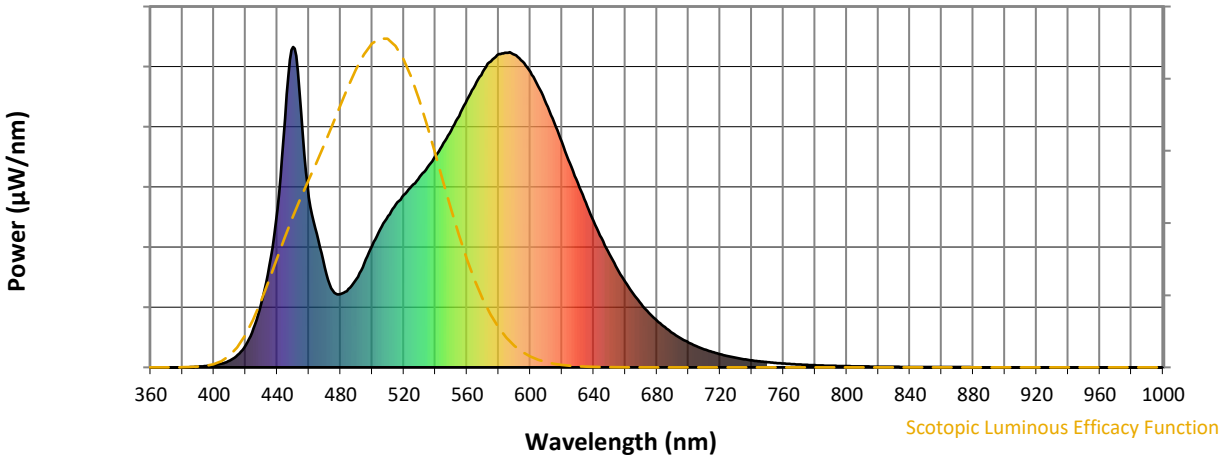


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Scotopic Flux vs. Wavelength

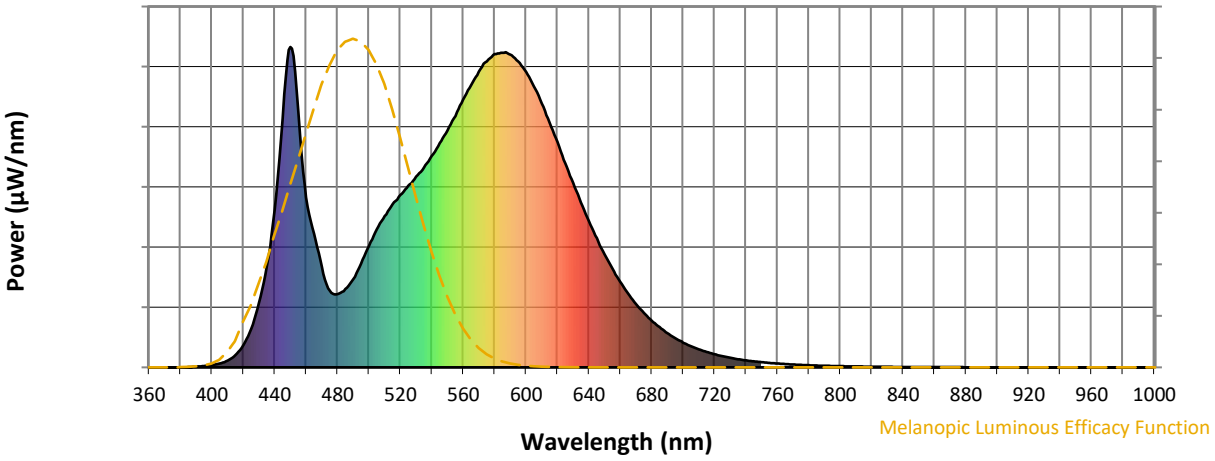


Scotopic Lumens: NR **S/P: 1.59**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.21**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

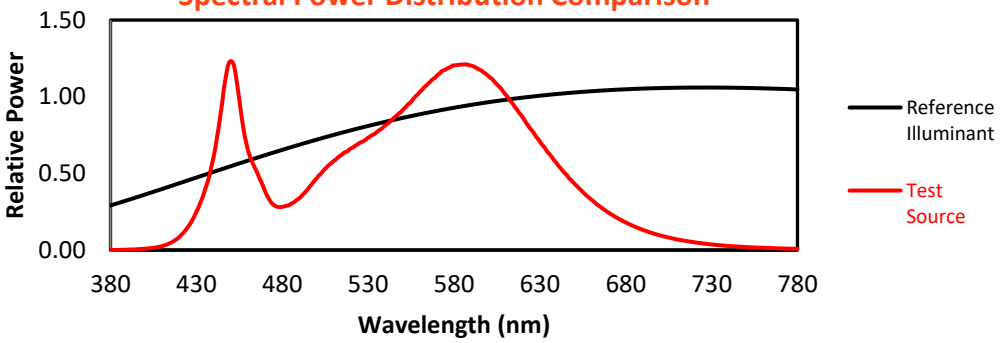
REPORT NUMBER: SP1-2501-332-1

TM-30-18

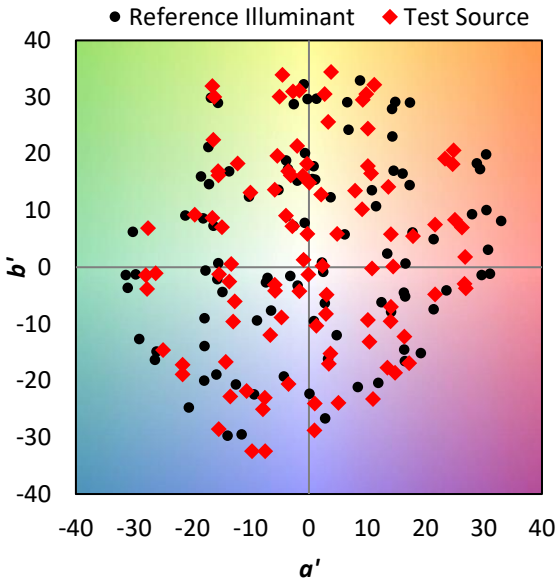
Summary

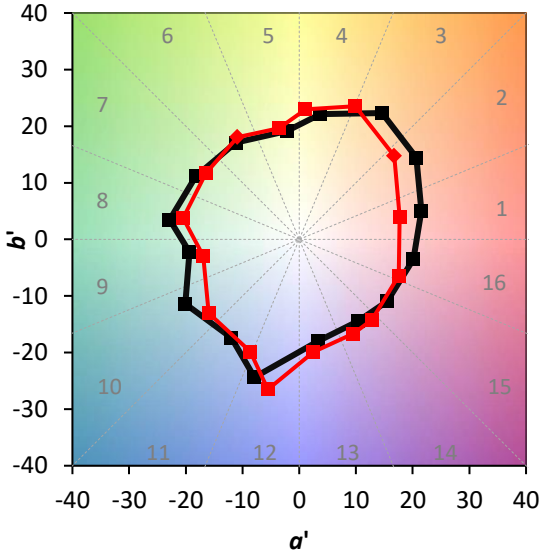
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

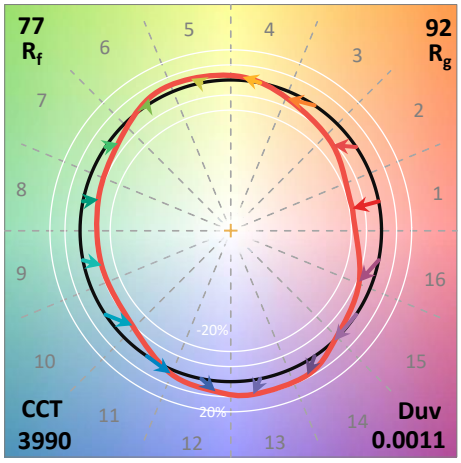
Spectral Power Distribution Comparison

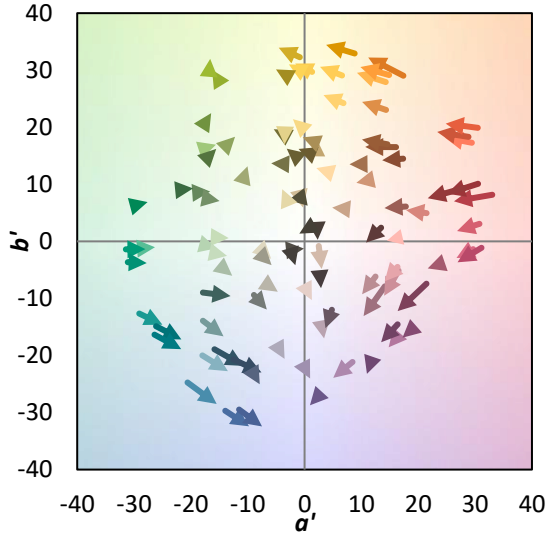


Color Vector Graphics







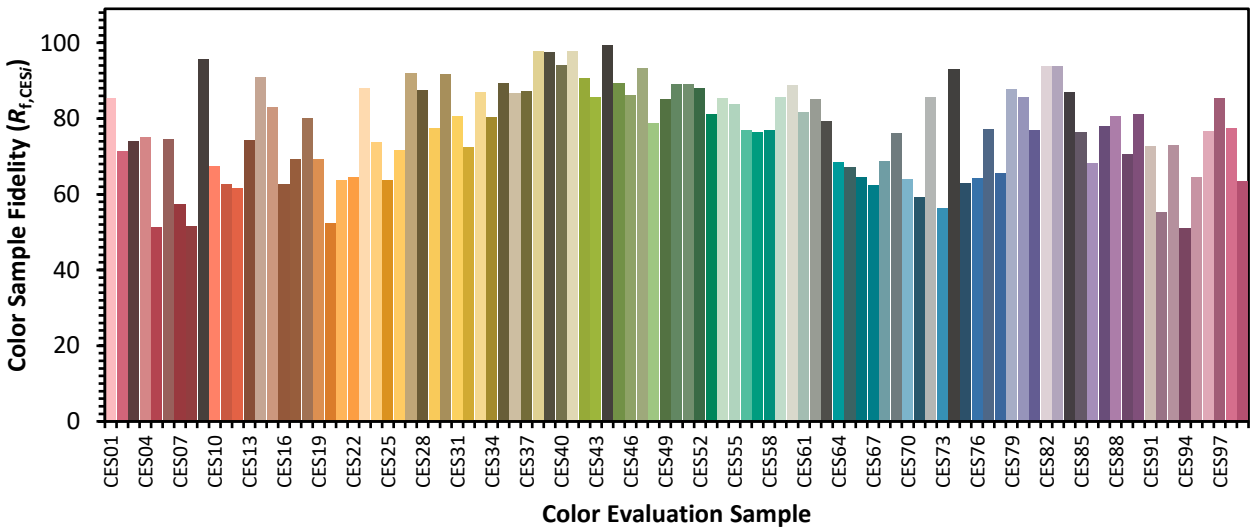


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

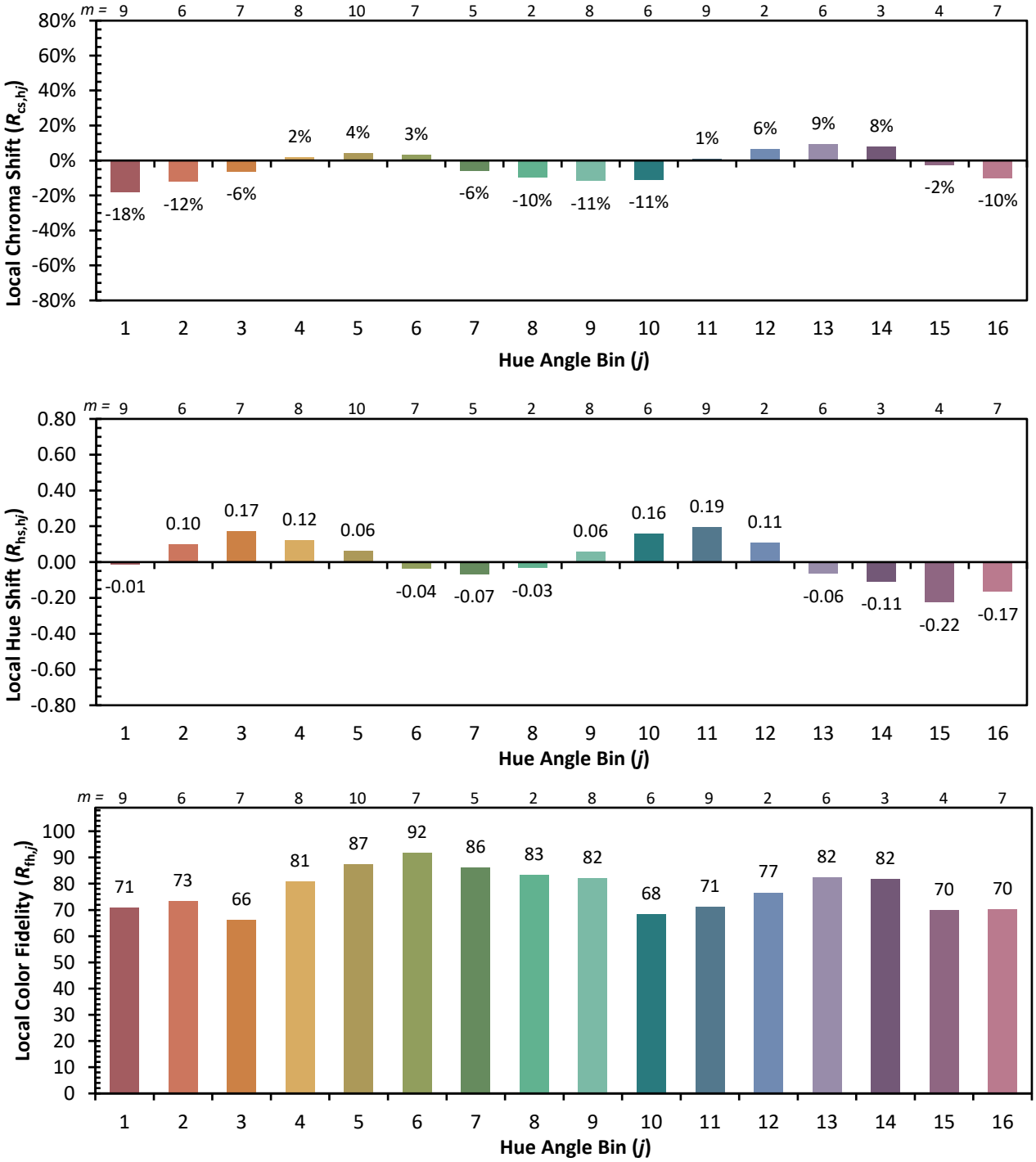
CES01 = 85	CES26 = 72	CES51 = 89	CES76 = 64
CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 89	CES60 = 89	CES85 = 76
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 68
CES12 = 63	CES37 = 87	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 81
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 67	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 65	CES91 = 73
CES17 = 49	CES42 = 91	CES67 = 62	CES92 = 55
CES18 = 56	CES43 = 86	CES68 = 69	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 65	CES45 = 89	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 77
CES22 = 78	CES47 = 93	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 79	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 93	CES99 = 63
CES25 = 72	CES50 = 89	CES75 = 63	



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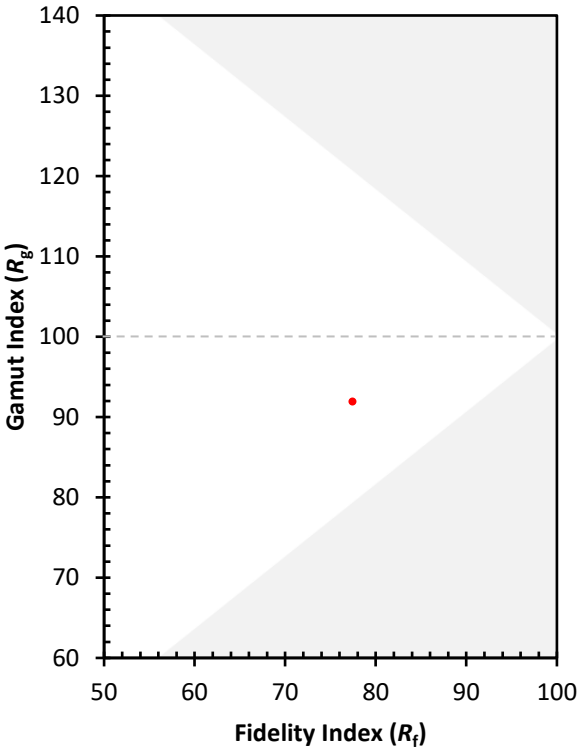
Color Rendition by Hue-Angle Bin

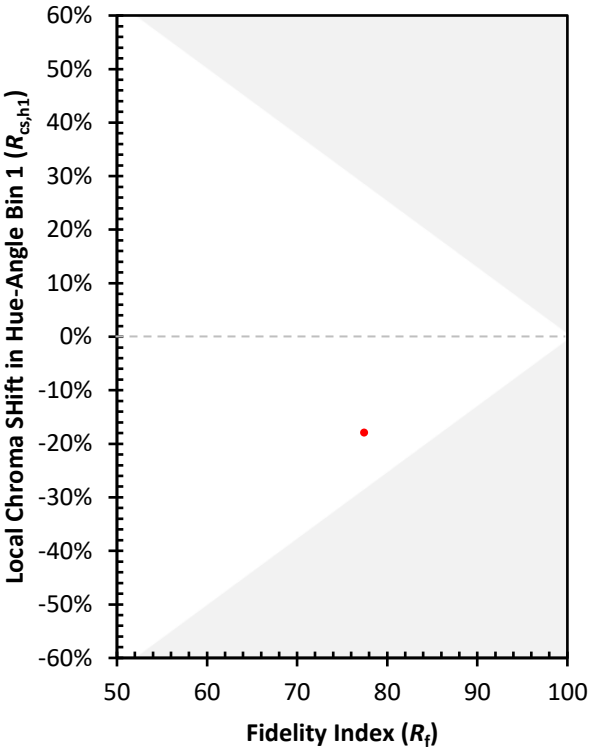


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Measure Comparisons





(END OF REPORT)