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: P1224042

Luminaire Tested: **FFX-CLB-80-740-U-VM8-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1224042
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-740-U-VM8-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11698.5 lumens
Efficiency:	N/A
Efficacy:	143.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G5

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

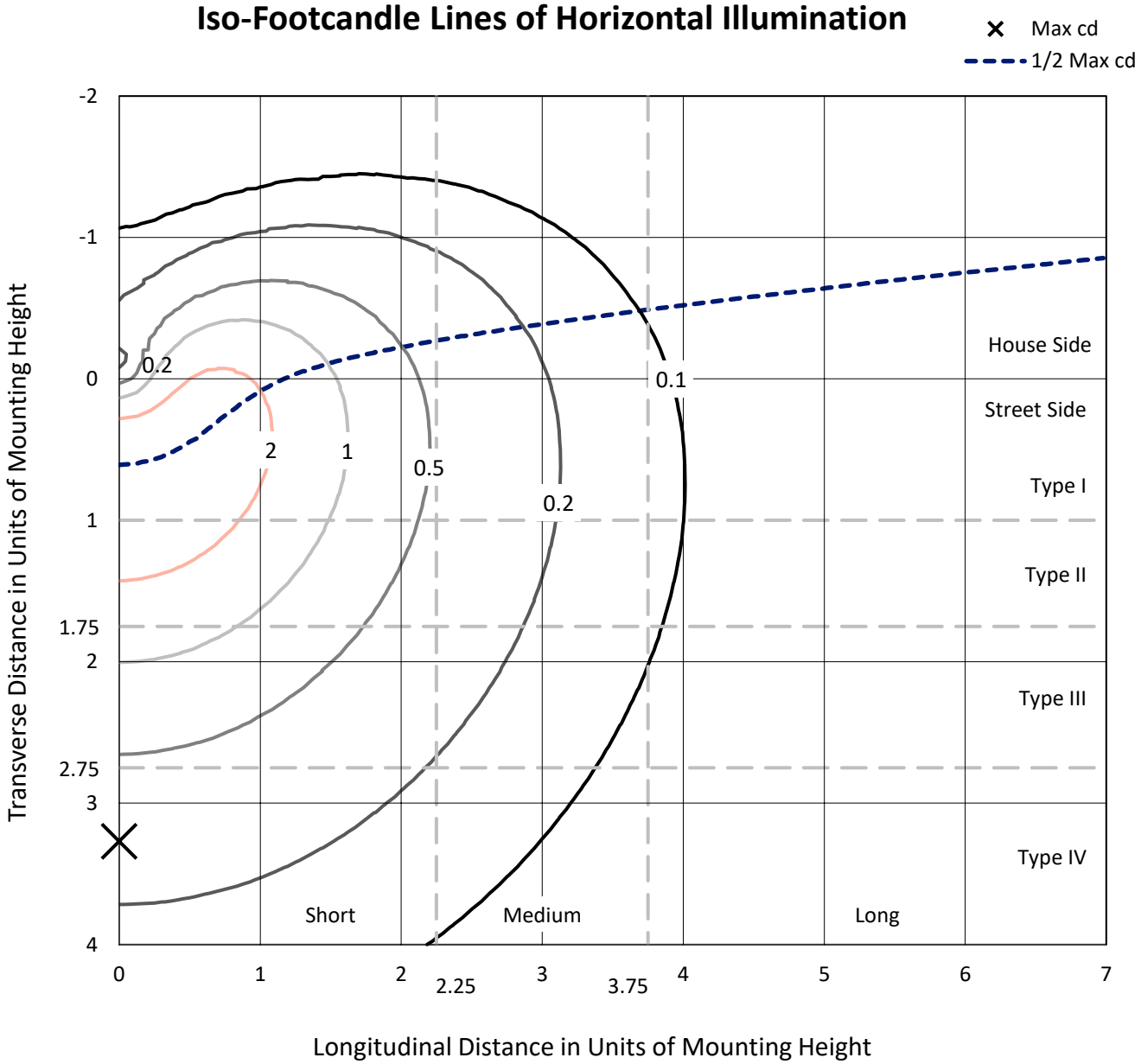


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Iso-Footcandle Lines of Horizontal Illumination



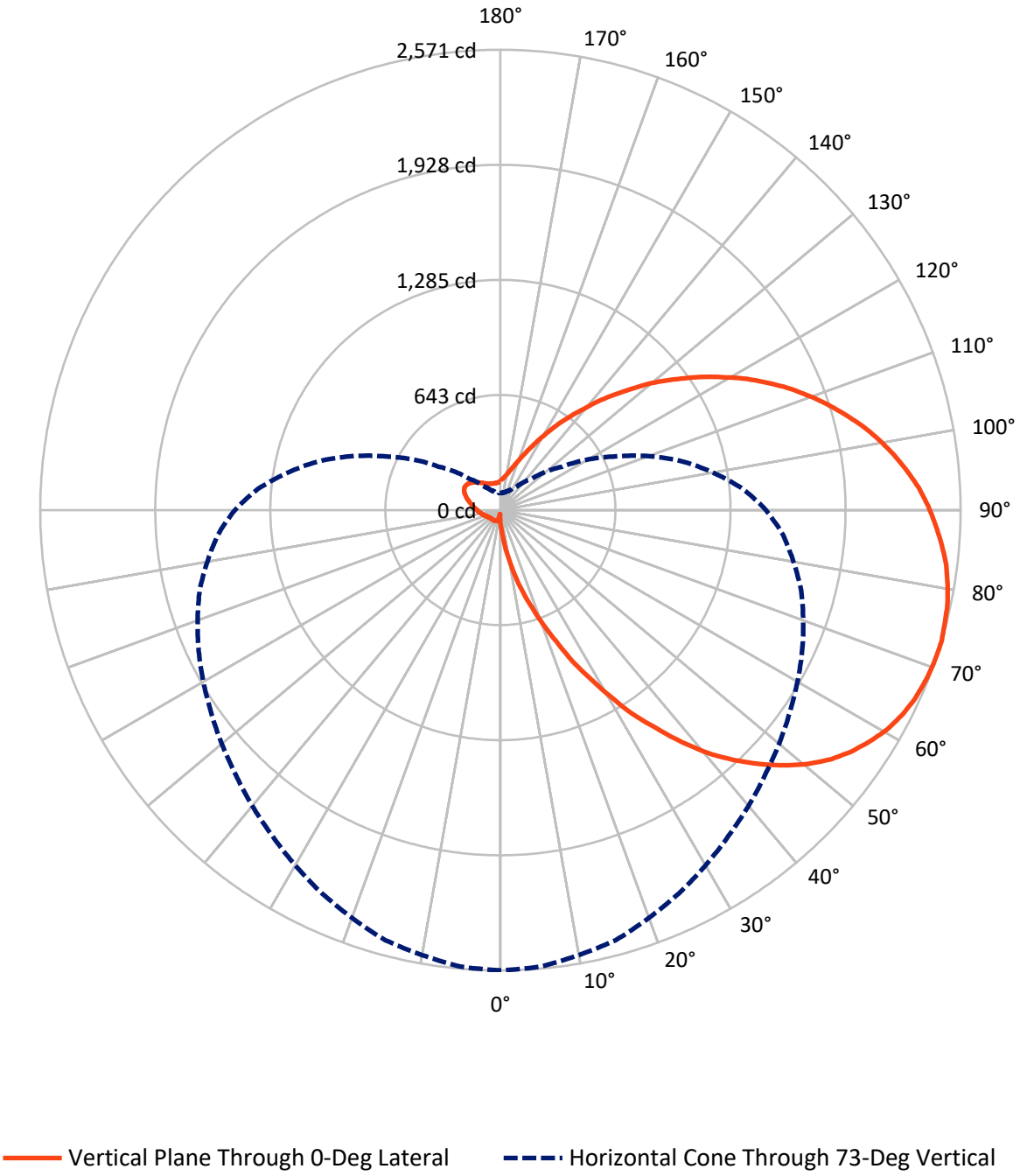
Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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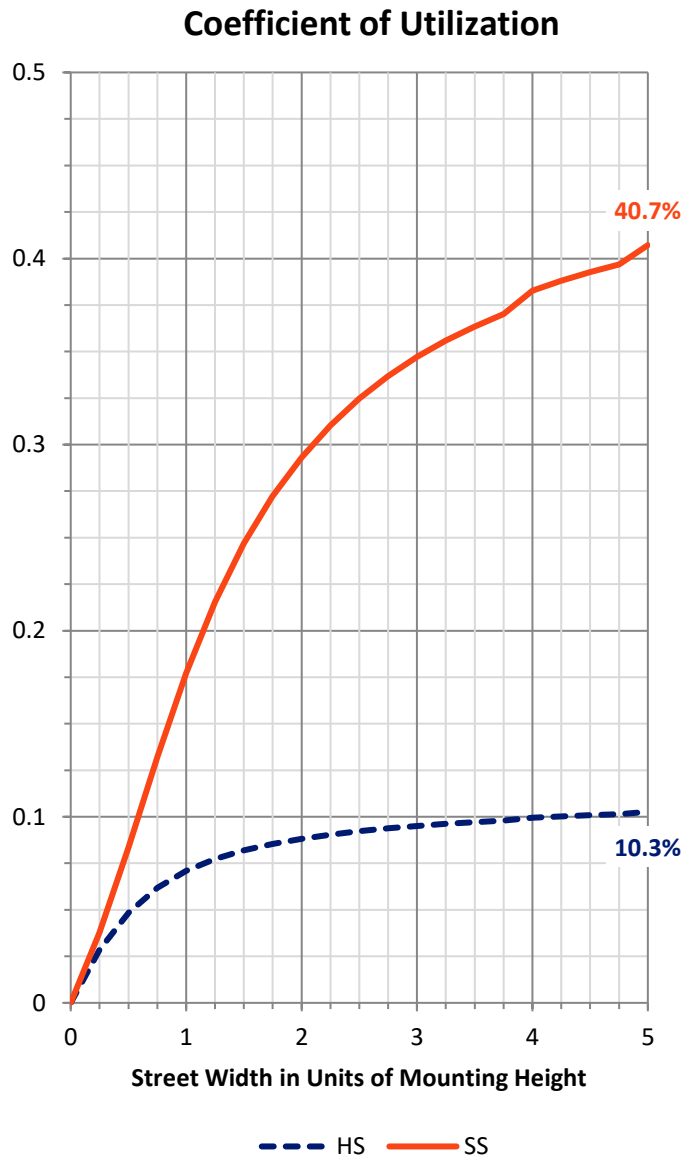
REPORT NUMBER: P1224042
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1295.8	1273.3	2569.0
	% Fixture	11.1	10.9	22.0
Street Side	Lumens	5463.2	3666.3	9129.5
	% Fixture	46.7	31.3	78.0
Total	Lumens	6759.0	4939.5	11698.5
	% Fixture	57.8	42.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	0.1
10°-20°	82.9	0.7
20°-30°	250.4	2.1
30°-40°	521.6	4.5
40°-50°	826.8	7.1
50°-60°	1086.1	9.3
60°-70°	1265.4	10.8
70°-80°	1356.3	11.6
80°-90°	1357.4	11.6
90°-100°	1272.9	10.9
100°-110°	1119.7	9.6
110°-120°	924.7	7.9
120°-130°	696.0	5.9
130°-140°	459.3	3.9
140°-150°	263.4	2.3
150°-160°	130.6	1.1
160°-170°	57.0	0.5
170°-180°	16.0	0.1
0°-90°	6759.0	57.8
0°-180°	11698.5	100.0



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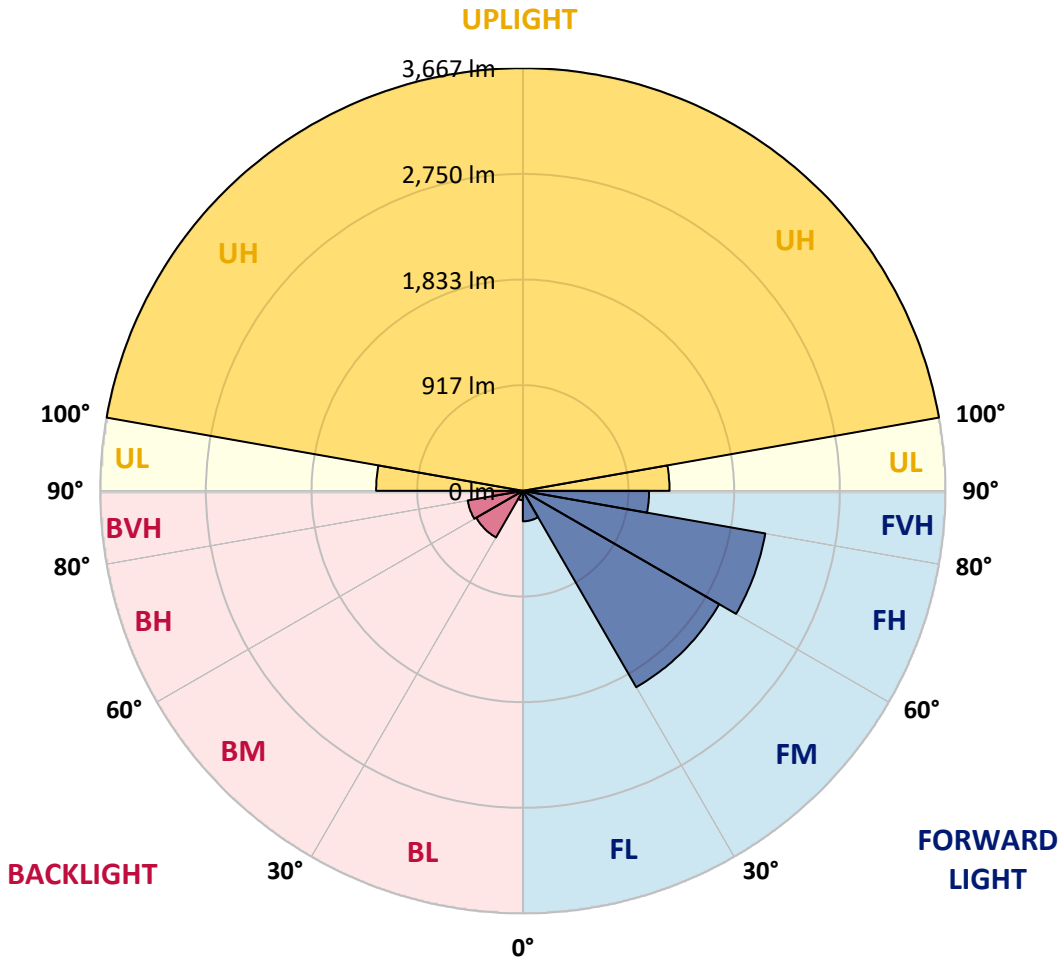
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	264.5	2.3			
FM	(30°-60°)	1967.6	16.8			
FH	(60°-80°)	2135.8	18.3			G2/5000
FVH	(80°-90°)	1095.3	9.4			G5
BL	(0°-30°)	80.8	0.7	B0/110		
BM	(30°-60°)	466.9	4.0	B1/1000		
BH	(60°-80°)	486.0	4.2	B1/500		G1/500
BVH	(80°-90°)	262.0	2.2			G3/500
UL	(90°-100°)	1272.9	10.9		U5	
UH	(100°-180°)	3666.7	31.3		U5	

BUG Rating: B1-U5-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
2.5°	105.5	106.3	105.5	107.1	103.1	103.1	99.9	96.7	92.7	88.0	84.8
5°	156.7	155.9	155.9	156.7	154.3	147.1	139.1	127.9	118.3	107.9	102.3
7.5°	225.5	222.3	219.1	218.3	210.3	199.9	188.7	175.9	162.3	147.9	137.5
10°	297.4	299.8	296.6	287.8	278.2	266.3	251.9	234.3	216.7	196.7	184.7
12.5°	390.2	383.8	375.8	367.0	357.4	346.2	323.0	303.0	278.2	253.5	237.5
15°	480.5	474.9	474.9	463.7	448.5	431.8	410.2	385.4	351.0	311.8	297.4
17.5°	573.3	574.1	566.1	553.3	539.7	518.1	494.9	459.7	424.6	383.8	359.0
20°	682.0	678.8	673.2	663.6	639.6	620.5	591.7	552.5	504.5	454.9	424.6
22.5°	794.8	796.4	796.4	781.2	758.8	732.4	699.6	654.8	598.1	534.1	497.3
25°	935.5	934.7	919.5	901.9	884.3	857.1	815.5	761.2	698.8	622.1	578.9
27.5°	1063.4	1062.6	1059.4	1043.4	1017.0	981.8	933.1	873.9	802.8	710.8	659.6
30°	1205.7	1208.9	1200.1	1186.5	1152.2	1116.2	1059.4	989.8	905.9	806.7	749.2
32.5°	1360.0	1353.6	1346.4	1328.9	1291.3	1240.9	1176.9	1105.0	1013.0	899.5	836.3
35°	1493.6	1505.6	1494.4	1467.2	1420.8	1367.2	1296.9	1216.1	1116.2	994.6	922.7
37.5°	1643.9	1641.5	1624.7	1598.3	1553.5	1485.6	1411.2	1317.7	1205.7	1079.4	999.4
40°	1783.8	1774.2	1764.6	1725.4	1668.7	1600.7	1508.8	1413.6	1298.5	1156.2	1075.4
42.5°	1907.7	1906.9	1881.3	1842.2	1771.0	1695.8	1600.7	1494.4	1374.4	1227.3	1136.2
45°	2022.1	2019.7	1994.9	1936.5	1869.4	1779.0	1679.9	1569.5	1443.2	1288.1	1200.9
47.5°	2130.0	2123.6	2089.2	2030.1	1945.3	1850.2	1747.8	1631.9	1501.6	1342.4	1251.3
50°	2228.4	2222.8	2182.8	2107.6	2017.3	1915.7	1803.8	1683.9	1556.7	1396.8	1298.5
52.5°	2312.3	2302.7	2256.3	2175.6	2072.4	1965.3	1848.6	1728.6	1599.9	1435.2	1340.0
55°	2379.5	2369.1	2319.5	2229.2	2121.2	2005.3	1886.9	1767.8	1633.5	1469.6	1372.0
57.5°	2435.4	2427.4	2373.1	2273.9	2158.8	2039.7	1919.7	1798.2	1664.7	1501.6	1400.0
60°	2484.2	2474.6	2413.0	2310.7	2189.2	2066.0	1943.7	1822.2	1691.1	1526.3	1425.6
62.5°	2518.6	2511.4	2446.6	2337.1	2210.8	2086.0	1959.7	1842.2	1711.0	1548.7	1444.8
65°	2543.4	2534.6	2469.0	2353.1	2224.4	2095.6	1971.7	1851.0	1723.8	1562.3	1459.2
67.5°	2557.8	2551.4	2482.6	2364.3	2230.0	2100.4	1977.3	1859.8	1734.2	1573.5	1470.4
70°	2567.4	2557.8	2488.2	2366.7	2228.4	2099.6	1977.3	1860.6	1739.8	1581.5	1476.8
72.5°	2569.8	2559.4	2487.4	2362.7	2223.6	2091.6	1973.3	1861.4	1741.4	1585.5	1483.2
73°	2570.6	2559.4	2486.6	2361.1	2221.2	2090.8	1972.5	1859.8	1739.8	1584.7	1483.2
75°	2561.8	2554.6	2480.2	2351.5	2213.2	2082.8	1966.9	1855.8	1739.8	1585.5	1482.4
77.5°	2553.0	2541.8	2464.2	2337.9	2194.8	2068.4	1954.9	1847.8	1734.2	1583.9	1481.6
80°	2532.2	2521.0	2443.4	2312.3	2171.6	2047.7	1938.1	1835.0	1723.8	1575.1	1475.2
82.5°	2508.2	2495.4	2414.6	2282.7	2143.6	2021.3	1916.5	1818.2	1710.2	1564.7	1465.6
85°	2473.0	2463.4	2381.1	2246.7	2111.6	1994.1	1891.7	1798.2	1692.7	1548.7	1451.2
87.5°	2432.2	2424.2	2338.7	2206.0	2070.8	1958.9	1863.0	1771.8	1672.7	1531.1	1435.2
90°	2389.9	2380.3	2294.7	2159.6	2030.9	1920.5	1829.4	1743.8	1647.9	1509.6	1414.4
92.5°	2341.1	2329.9	2243.5	2112.4	1986.9	1881.3	1796.6	1712.6	1619.9	1484.8	1392.8
95°	2281.9	2271.5	2186.0	2054.8	1931.7	1835.8	1753.4	1675.9	1587.1	1455.2	1366.4
97.5°	2218.8	2209.2	2122.8	1997.3	1878.1	1783.8	1707.0	1636.7	1551.9	1426.4	1336.9
100°	2150.8	2138.0	2052.5	1931.7	1814.2	1728.6	1659.9	1596.7	1513.6	1390.4	1304.9
102.5°	2078.8	2066.8	1985.3	1867.0	1756.6	1673.5	1611.1	1549.5	1473.6	1357.6	1273.7
105°	1997.3	1990.9	1908.5	1794.2	1691.1	1614.3	1555.9	1502.4	1430.4	1317.7	1240.9
107.5°	1916.5	1903.7	1827.0	1717.4	1620.7	1551.1	1500.8	1451.2	1385.6	1277.7	1204.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*1831.0*	1818.2	1749.4	1644.7	1555.1	1488.8	1442.4	1398.4	1339.2	1238.5	1169.7
112.5°	*1744.6*	1730.2	1662.3	1566.3	1479.2	1424.8	1382.4	1345.6	1292.1	1199.3	1131.4
115°	*1651.1*	1645.5	1579.1	1487.2	1410.4	1359.2	1322.5	1288.9	1238.5	1157.0	1094.6
117.5°	*1559.1*	1548.7	1491.2	1406.4	1335.3	1287.3	1259.3	1229.7	1184.1	1107.4	1053.0
120°	*1460.0*	1457.6	1402.4	1323.3	1256.9	1219.3	1192.1	1167.3	1127.4	1057.8	1006.6
122.5°	*1366.4*	1361.6	1308.9	1237.7	1182.5	1147.4	1125.8	1104.2	1069.8	1005.0	957.1
125°	*1267.3*	1261.7	1220.1	1161.7	1109.0	1075.4	1054.6	1037.8	1006.6	948.3	903.5
127.5°	*1175.3*	1169.7	1132.2	1076.2	1034.6	1004.2	985.0	969.9	938.7	888.3	849.1
130°	*1084.2*	1074.6	1041.8	997.0	955.5	934.7	915.5	904.3	872.3	825.1	790.8
132.5°	*986.6*	981.8	958.7	917.1	883.5	861.9	845.1	830.7	805.9	762.8	731.6
135°	*900.3*	895.5	873.9	838.7	815.5	795.6	780.4	765.2	739.6	698.0	671.6
137.5°	*817.9*	813.9	794.8	770.8	741.2	729.2	718.8	700.4	678.0	640.4	616.5
140°	*731.6*	733.2	718.0	696.4	678.0	663.6	653.2	638.0	615.7	583.7	559.7
142.5°	*660.4*	662.8	644.4	629.2	612.5	601.3	590.9	578.1	556.5	527.7	509.3
145°	*593.3*	587.7	580.5	566.1	550.1	542.9	532.5	521.3	504.5	475.7	460.5
147.5°	*525.3*	523.7	516.5	506.9	494.1	482.9	474.9	468.5	451.7	427.8	414.2
150°	*463.7*	462.1	458.1	450.9	439.8	432.6	426.2	417.4	401.4	383.0	371.0
152.5°	*409.4*	409.4	407.0	397.4	392.6	384.6	376.6	371.8	355.8	340.6	330.2
155°	*362.2*	362.2	359.0	354.2	345.4	340.6	335.8	328.6	317.4	305.4	295.8
157.5°	*321.4*	322.2	318.2	314.2	307.8	303.8	299.0	291.8	284.6	273.4	266.3
160°	*285.4*	286.2	284.6	281.4	275.0	271.0	267.1	261.5	255.1	246.3	239.9
162.5°	*256.7*	255.9	254.3	251.1	247.1	244.7	239.9	235.9	230.3	223.9	218.3
165°	*234.3*	231.9	231.1	228.7	224.7	222.3	218.3	215.1	211.1	204.7	202.3
167.5°	*214.3*	214.3	212.7	211.1	207.9	204.7	201.5	199.1	195.9	191.9	188.7
170°	*198.3*	198.3	196.7	195.1	191.9	190.3	187.9	185.5	183.1	179.9	178.3
172.5°	*185.5*	185.5	184.7	182.3	180.7	178.3	177.5	175.1	172.7	171.1	169.5
175°	*175.9*	175.9	174.3	172.7	171.1	169.5	167.9	167.1	166.3	164.7	163.9
177.5°	*168.7*	167.9	167.1	165.5	163.9	163.1	162.3	161.5	161.5	160.7	159.9
180°	*159.1*	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
2.5°	81.6	74.4	66.4	59.2	55.2	49.6	46.4	44.8	46.4	44.0
5°	96.7	84.0	71.2	61.6	51.2	43.2	36.0	28.8	24.0	23.2
7.5°	128.7	114.3	96.7	80.8	66.4	53.6	42.4	33.6	27.2	26.4
10°	170.3	148.7	126.3	103.9	83.2	66.4	52.8	43.2	40.0	39.2
12.5°	222.3	191.1	159.9	130.3	104.7	82.4	67.2	56.8	52.0	51.2
15°	276.6	237.5	197.5	159.1	124.7	97.5	78.4	67.2	61.6	60.8
17.5°	335.0	283.8	229.5	184.7	143.9	111.1	87.2	72.0	65.6	64.0
20°	394.2	330.2	267.8	209.5	159.9	119.9	91.9	74.4	66.4	64.8
22.5°	460.5	383.8	306.2	233.5	174.3	128.7	95.9	76.0	67.2	65.6
25°	535.7	438.2	346.2	261.5	190.3	136.7	99.9	78.4	68.0	66.4
27.5°	612.5	498.9	387.0	286.2	203.9	142.3	103.1	79.2	68.8	67.2
30°	690.0	559.7	428.6	310.2	215.9	148.7	104.7	80.0	68.8	68.0
32.5°	770.8	616.5	468.5	332.6	226.3	152.7	106.3	80.8	69.6	68.0
35°	843.5	676.4	506.1	354.2	235.9	155.9	107.1	80.8	69.6	68.0
37.5°	913.1	727.6	540.5	371.8	243.1	158.3	107.9	80.8	69.6	68.0
40°	985.8	782.0	571.7	387.8	248.7	159.9	107.9	80.8	69.6	68.8
42.5°	1045.0	827.5	598.1	399.0	252.7	159.9	107.9	80.8	70.4	68.8
45°	1098.6	865.1	623.7	409.4	255.1	159.9	107.1	81.6	70.4	69.6
47.5°	1145.0	902.7	642.8	416.6	255.9	159.9	107.1	81.6	71.2	70.4
50°	1188.1	933.1	659.6	422.2	256.7	159.1	107.1	82.4	72.0	70.4
52.5°	1224.9	957.9	673.2	425.4	255.1	157.5	107.1	83.2	73.6	72.0
55°	1256.1	981.1	682.8	427.0	253.5	156.7	107.1	84.0	74.4	73.6
57.5°	1281.7	999.4	691.6	427.8	251.9	155.9	107.9	85.6	76.8	76.0
60°	1304.9	1014.6	698.0	427.8	250.3	155.1	108.7	87.2	78.4	77.6
62.5°	1323.3	1026.6	702.8	427.0	249.5	155.1	110.3	89.5	80.8	80.0
65°	1336.1	1035.4	705.2	425.4	247.9	155.9	111.9	91.9	84.0	83.2
67.5°	1348.0	1043.4	706.8	424.6	247.1	156.7	114.3	95.1	87.2	86.4
70°	1355.2	1048.2	707.6	423.8	246.3	158.3	116.7	98.3	91.1	90.3
72.5°	1358.4	1051.4	708.4	422.2	247.1	159.9	119.9	101.5	95.1	94.3
73°	*1359.2*	*1051.4*	*707.6*	*422.2*	*247.1*	*160.7*	*120.7*	*103.1*	*95.9*	*95.1*
75°	1360.8	1051.4	706.8	421.4	247.9	162.3	123.1	106.3	99.1	99.1
77.5°	1358.4	1049.8	705.2	420.6	248.7	165.5	127.1	110.3	103.9	103.1
80°	1353.6	1045.8	702.8	420.6	250.3	168.7	131.9	115.1	108.7	107.9
82.5°	1343.2	1038.6	699.6	419.8	252.7	172.7	136.7	119.9	114.3	113.5
85°	1332.9	1029.8	694.8	419.8	255.9	177.5	141.5	125.5	119.9	119.1
87.5°	1316.9	1019.4	690.0	419.0	259.1	181.5	146.3	131.1	124.7	124.7
90°	1298.5	1008.2	685.2	419.8	262.3	187.1	152.7	137.5	131.1	130.3
92.5°	1280.1	995.4	679.6	421.4	267.8	192.7	159.1	143.9	137.5	135.9
95°	1255.3	977.9	673.2	422.2	272.6	199.1	165.5	150.3	143.9	143.9
97.5°	1229.7	961.9	666.0	424.6	279.0	207.1	174.3	158.3	151.9	151.9
100°	1202.5	945.1	661.2	427.0	285.4	215.9	182.3	166.3	159.9	159.9
102.5°	1173.7	926.7	656.4	431.8	295.0	224.7	191.9	175.9	168.7	168.7
105°	1144.2	909.1	651.6	437.4	304.6	235.9	202.3	186.3	179.1	179.1
107.5°	1115.4	892.3	647.6	444.6	315.0	247.1	212.7	196.7	189.5	187.9

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

Scaled Data Report

REPORT NUMBER: P1224042
CATALOG NUMBER: FFX-CLB-80-740-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	1085.0	874.7	644.4	451.7	327.0	259.9	225.5	207.1	199.1	199.1
112.5°	1052.2	856.3	642.0	458.9	339.8	272.6	236.7	218.3	210.3	208.7
115°	1017.8	837.9	637.2	466.9	351.0	285.4	248.7	227.9	219.1	218.3
117.5°	984.2	816.3	631.6	472.5	361.4	295.8	258.3	237.5	227.9	227.1
120°	945.1	792.4	622.1	474.1	369.4	303.8	266.3	243.9	234.3	232.7
122.5°	901.9	761.2	608.5	472.5	373.4	309.4	271.0	248.7	237.5	236.7
125°	853.1	726.8	590.9	466.9	374.2	311.8	272.6	249.5	239.1	237.5
127.5°	802.0	692.4	567.7	455.7	369.4	310.2	271.0	247.9	236.7	235.9
130°	749.2	651.6	540.5	441.4	361.4	304.6	267.1	243.9	232.7	231.9
132.5°	696.4	608.5	510.9	422.2	350.2	295.8	259.9	237.5	227.1	225.5
135°	639.6	566.1	480.5	402.2	335.0	286.2	251.1	229.5	219.1	218.3
137.5°	587.7	522.1	449.3	379.8	320.6	273.4	241.5	221.5	212.7	211.1
140°	536.5	479.7	415.8	355.8	302.2	260.7	230.3	212.7	203.9	203.1
142.5°	489.3	440.6	386.2	332.6	285.4	247.9	220.7	203.9	196.7	195.1
145°	440.6	399.8	355.0	308.6	267.1	234.3	210.3	195.1	188.7	187.1
147.5°	398.2	362.2	323.8	284.6	250.3	220.7	199.9	187.1	181.5	180.7
150°	358.2	327.8	294.2	262.3	231.9	207.9	190.3	179.1	174.3	173.5
152.5°	322.2	295.8	268.6	241.5	215.9	196.7	181.5	171.9	167.9	167.9
155°	288.6	267.1	245.5	223.1	203.1	187.1	175.1	167.1	163.9	163.1
157.5°	259.9	243.1	225.5	207.1	191.9	178.3	168.7	163.1	159.9	159.9
160°	235.1	222.3	207.9	194.3	182.3	171.1	163.9	159.1	156.7	156.7
162.5°	215.1	204.7	193.5	183.1	172.7	165.5	159.9	156.7	155.1	155.1
165°	198.3	191.1	183.1	174.3	167.1	161.5	157.5	155.1	154.3	154.3
167.5°	186.3	179.9	173.5	167.9	163.1	158.3	155.9	154.3	154.3	153.5
170°	175.9	171.9	166.3	162.3	158.3	155.9	154.3	153.5	153.5	152.7
172.5°	167.9	164.7	161.5	158.3	155.9	154.3	153.5	153.5	153.5	153.5
175°	163.1	160.7	158.3	156.7	155.1	153.5	153.5	154.3	154.3	154.3
177.5°	159.1	158.3	156.7	155.9	155.1	155.1	155.1	155.9	156.7	156.7
180°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1

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

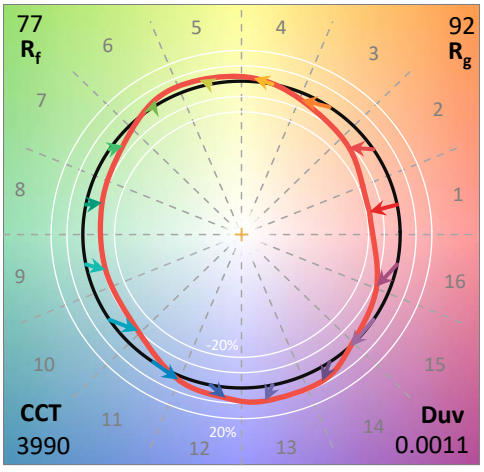
Test Information

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

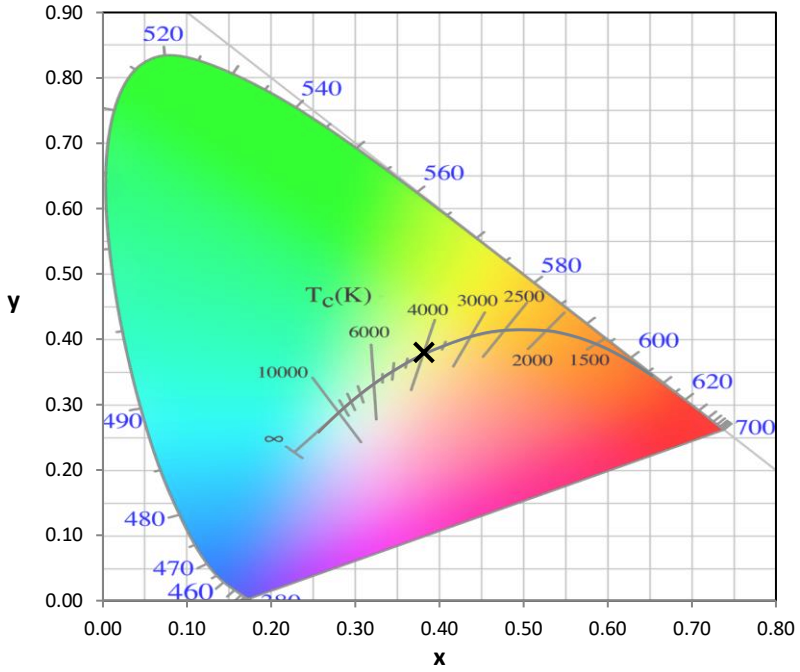
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

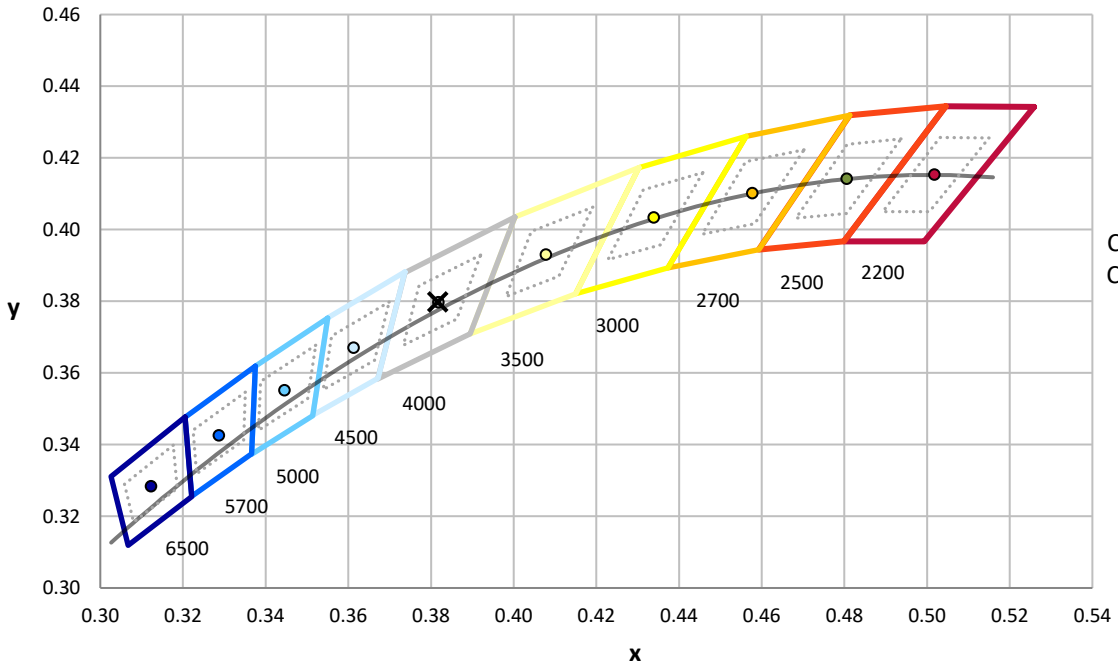
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

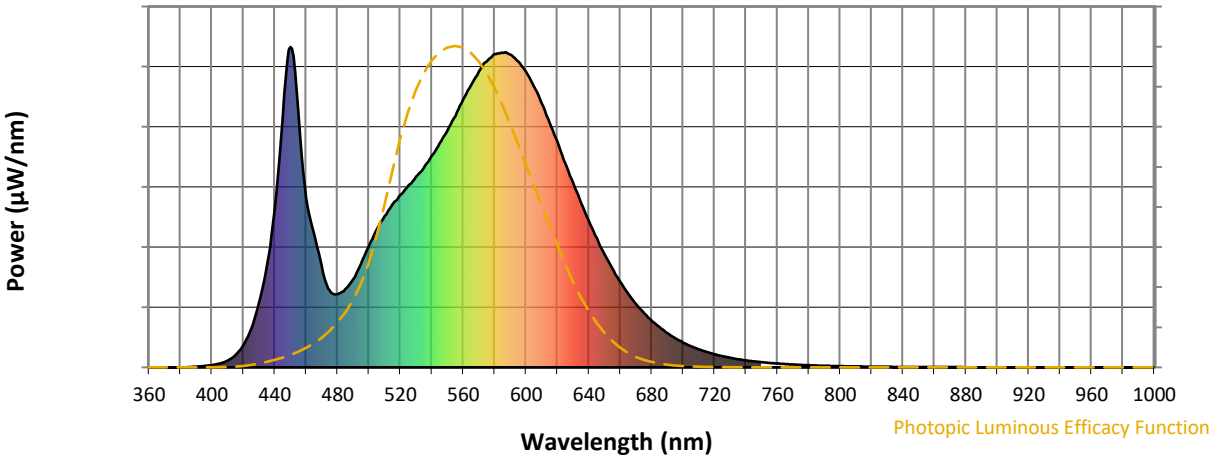


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

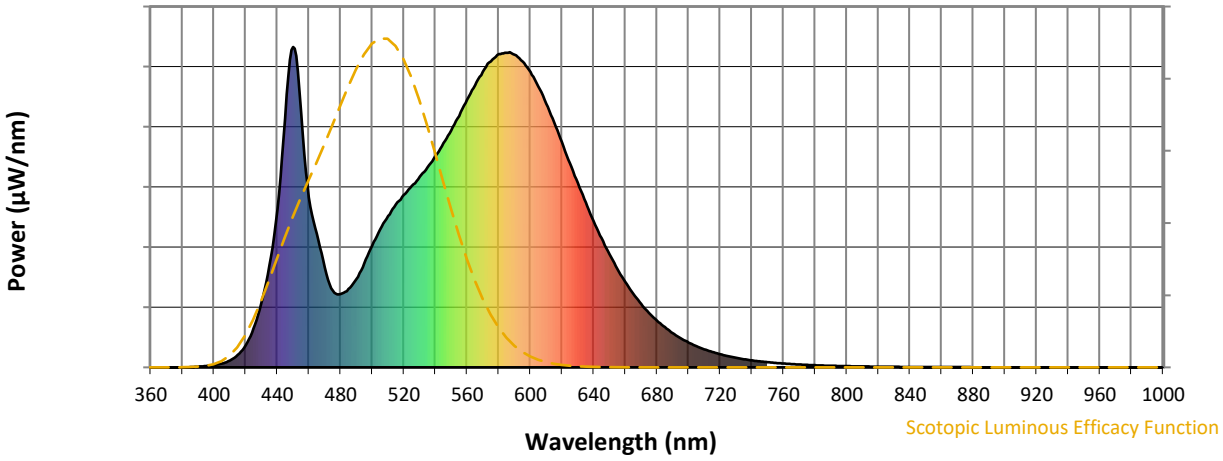


Photopic Lumens: NR

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

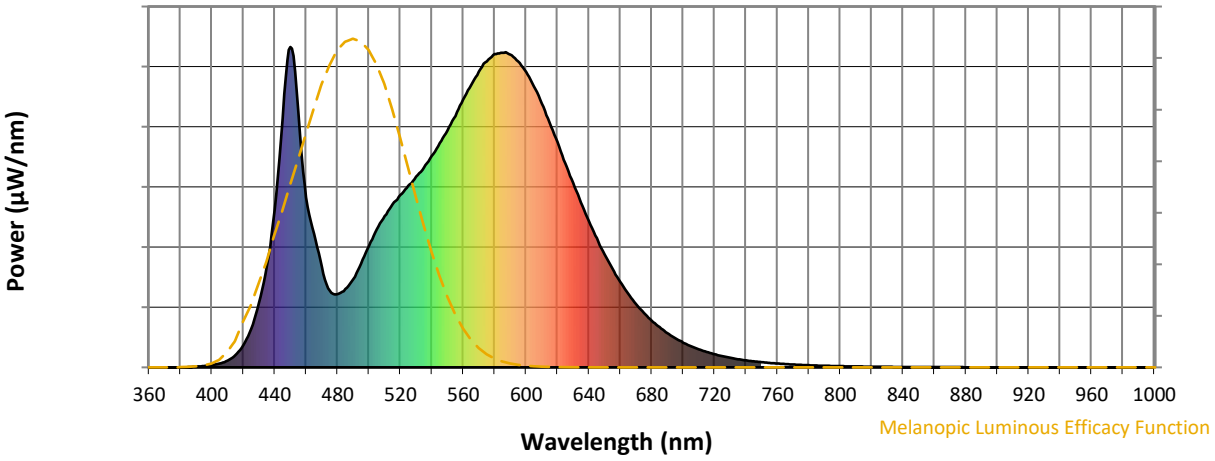


Scotopic Lumens: NR **S/P: 1.59**

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			

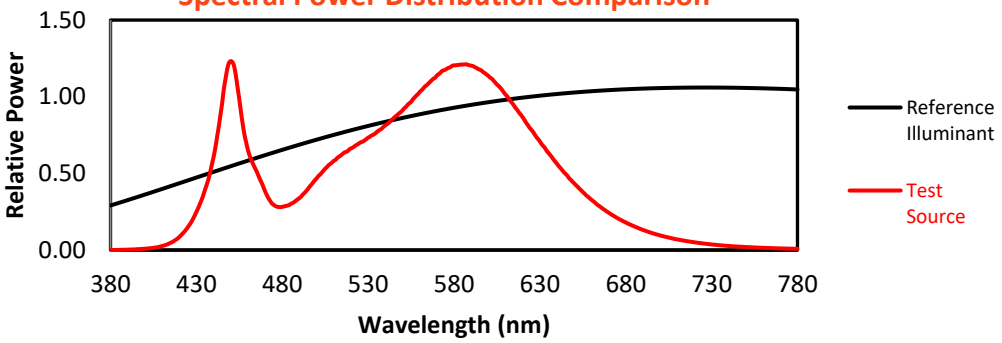
REPORT NUMBER: SP1-2501-332-1

TM-30-18

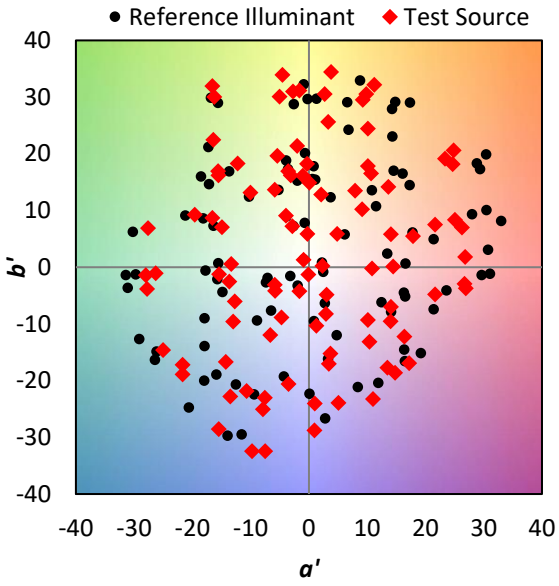
Summary

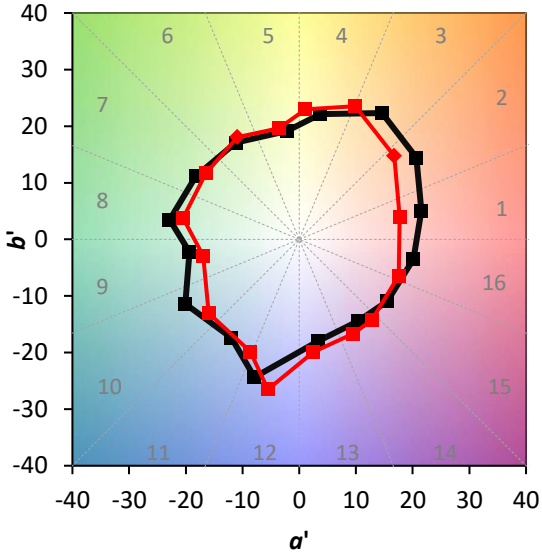
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

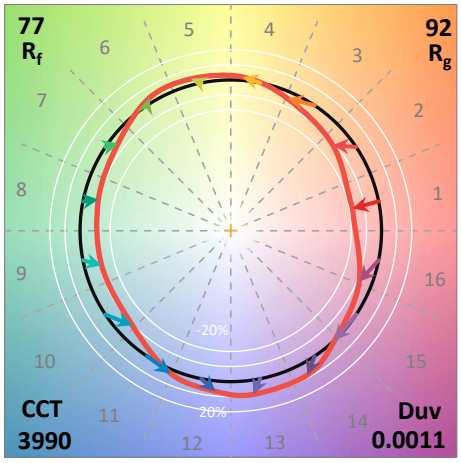
Spectral Power Distribution Comparison

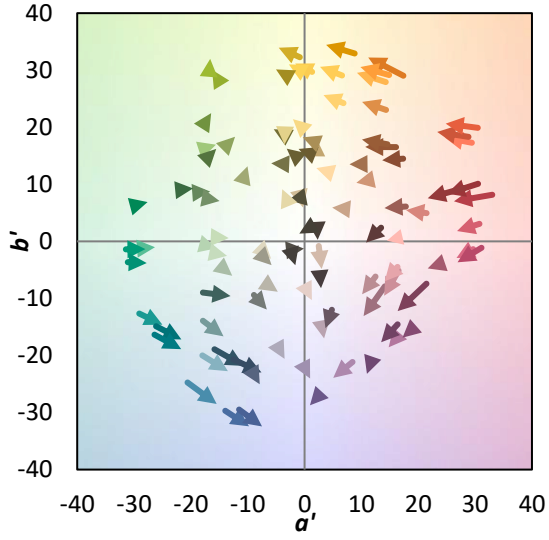


Color Vector Graphics







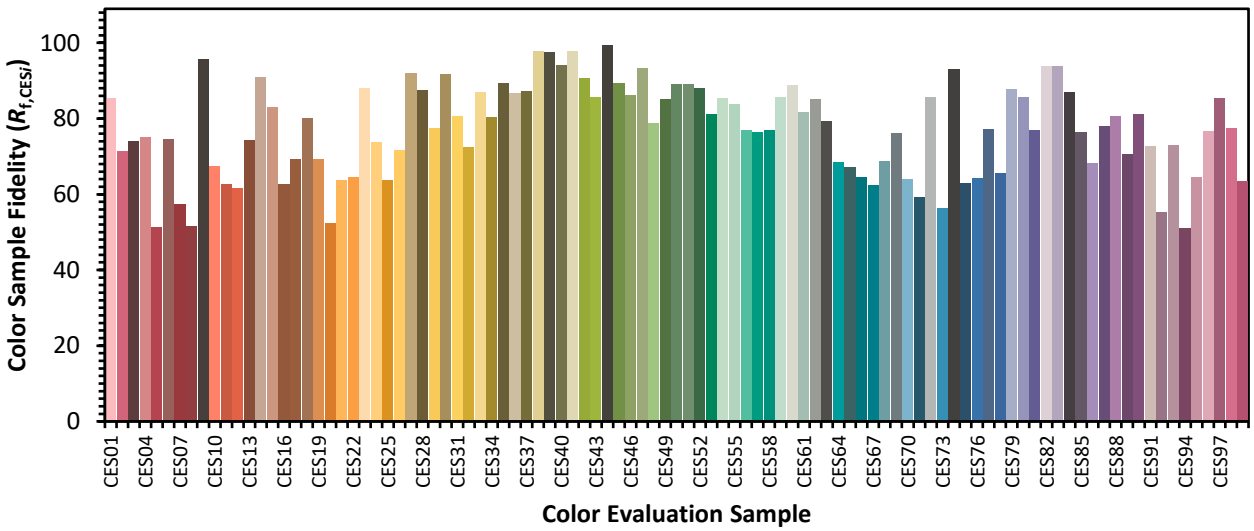


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

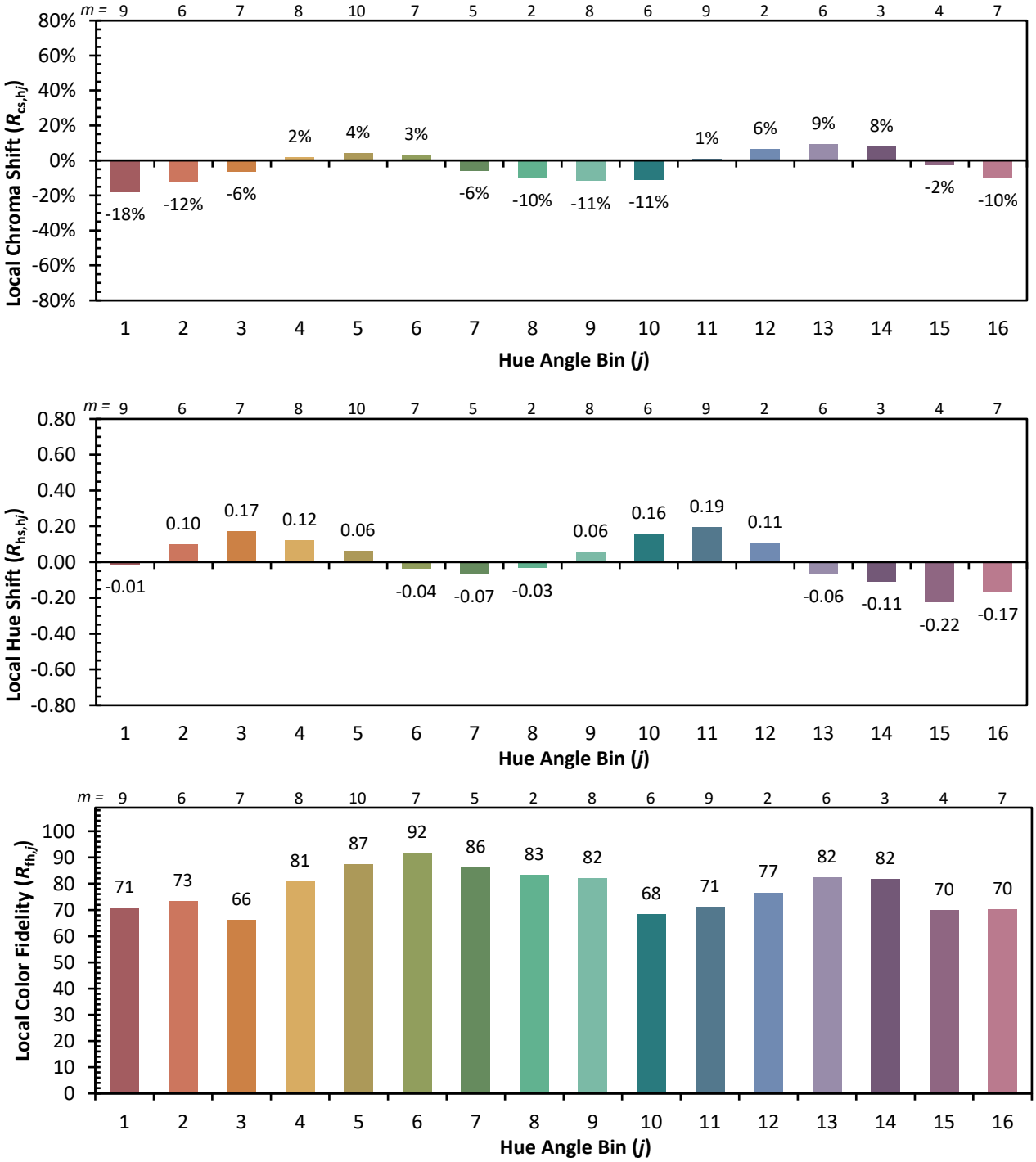
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 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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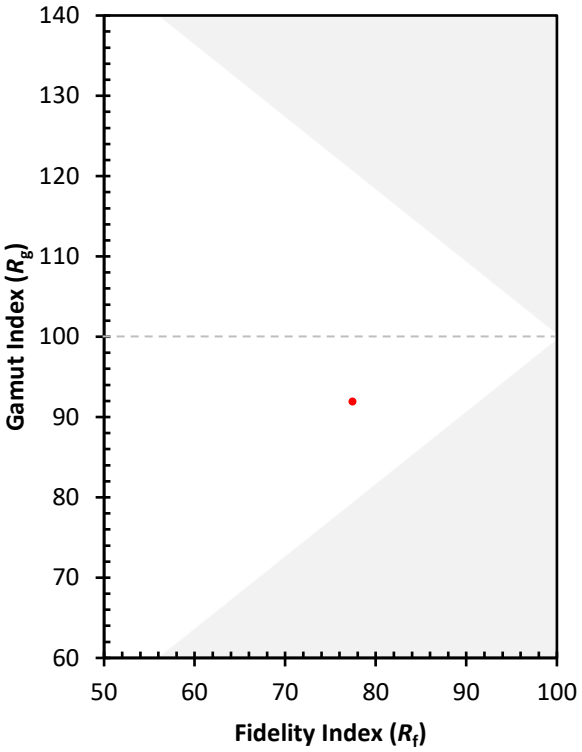
Color Rendition by Hue-Angle Bin

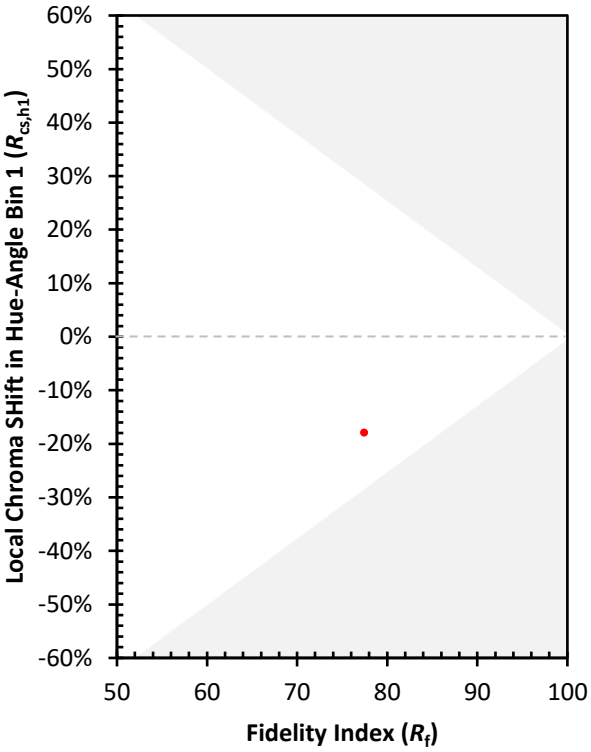


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Measure Comparisons





(END OF REPORT)