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: P1223926

Luminaire Tested: **FFX-CLB-70-722-U-VM9-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223926
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-U-VM9-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8229.1 lumens
Efficiency:	N/A
Efficacy:	115.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G4

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

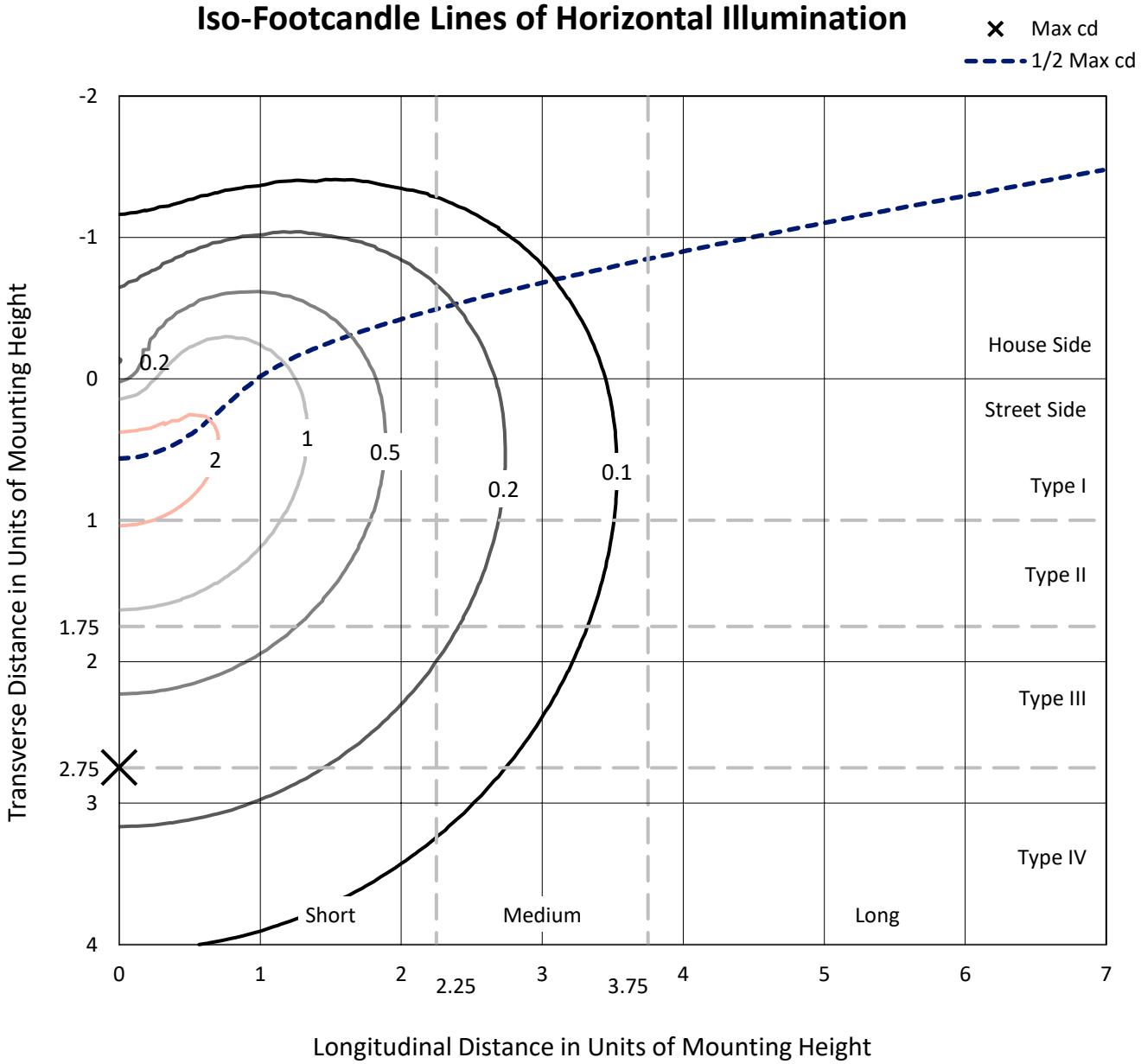


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Iso-Footcandle Lines of Horizontal Illumination



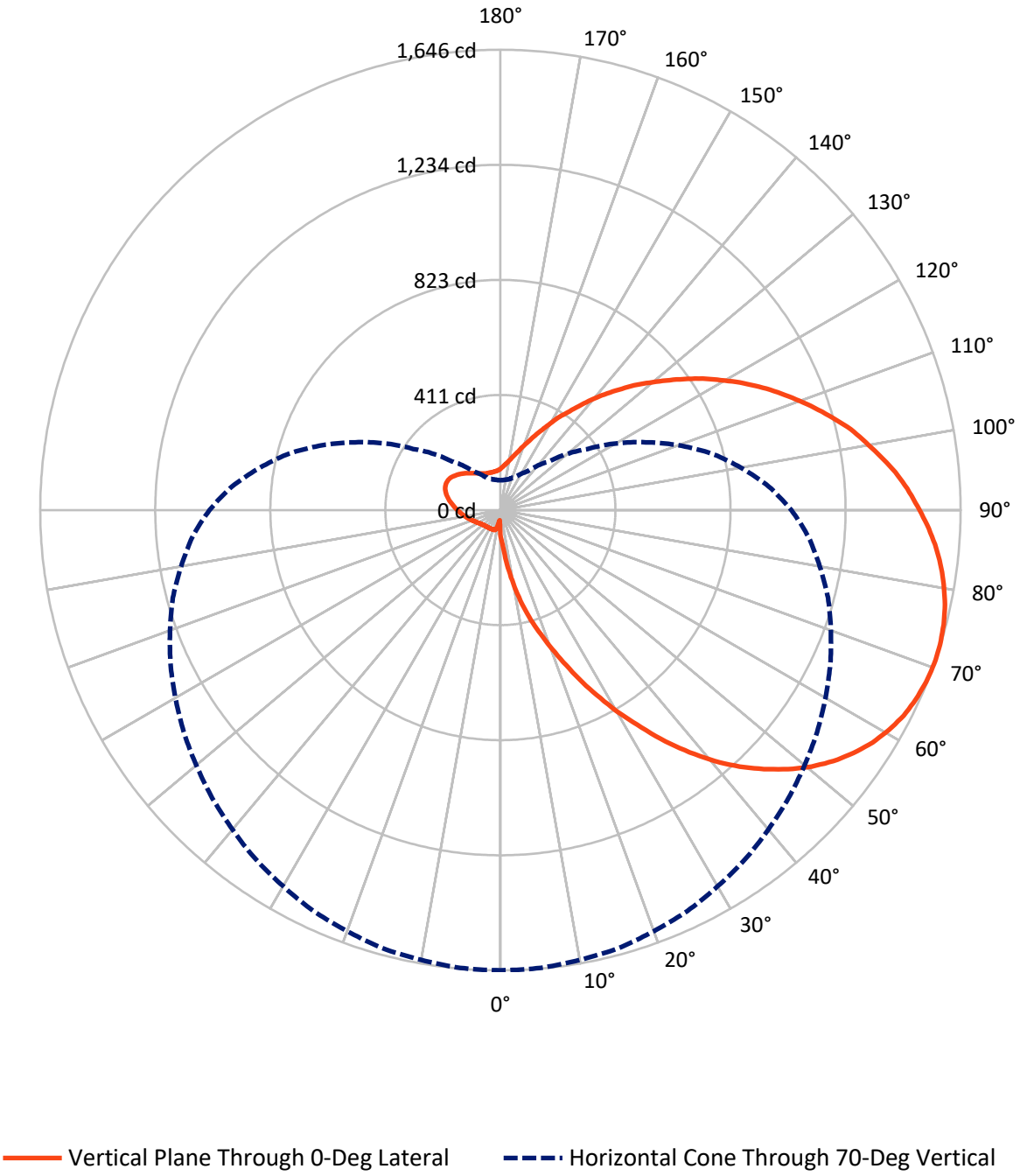
Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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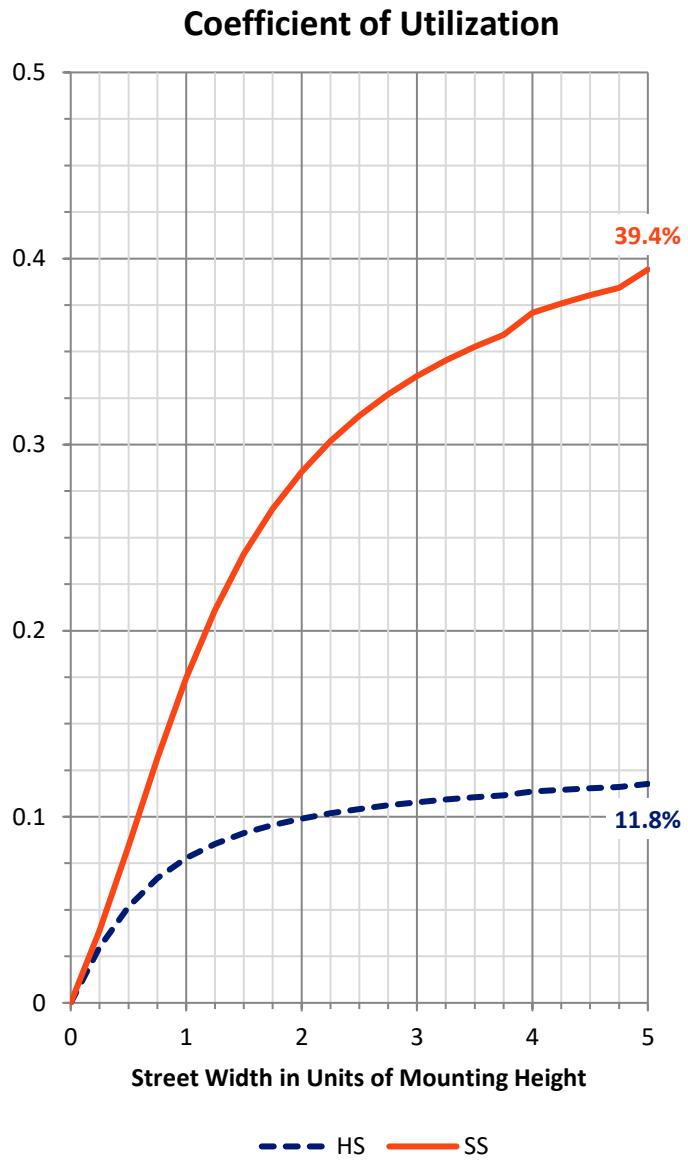
REPORT NUMBER: P1223926
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1055.2	1018.1	2073.2
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	3706.5	2449.4	6155.9
	% Fixture	45.0	29.8	74.8
Total	Lumens	4761.7	3467.4	8229.1
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.2
10°-20°	71.9	0.9
20°-30°	189.3	2.3
30°-40°	367.7	4.5
40°-50°	572.9	7.0
50°-60°	755.8	9.2
60°-70°	887.5	10.8
70°-80°	954.8	11.6
80°-90°	949.4	11.5
90°-100°	882.7	10.7
100°-110°	775.0	9.4
110°-120°	637.4	7.7
120°-130°	479.9	5.8
130°-140°	325.2	4.0
140°-150°	196.9	2.4
150°-160°	106.0	1.3
160°-170°	49.9	0.6
170°-180°	14.5	0.2
0°-90°	4761.7	57.9
0°-180°	8229.1	100.0



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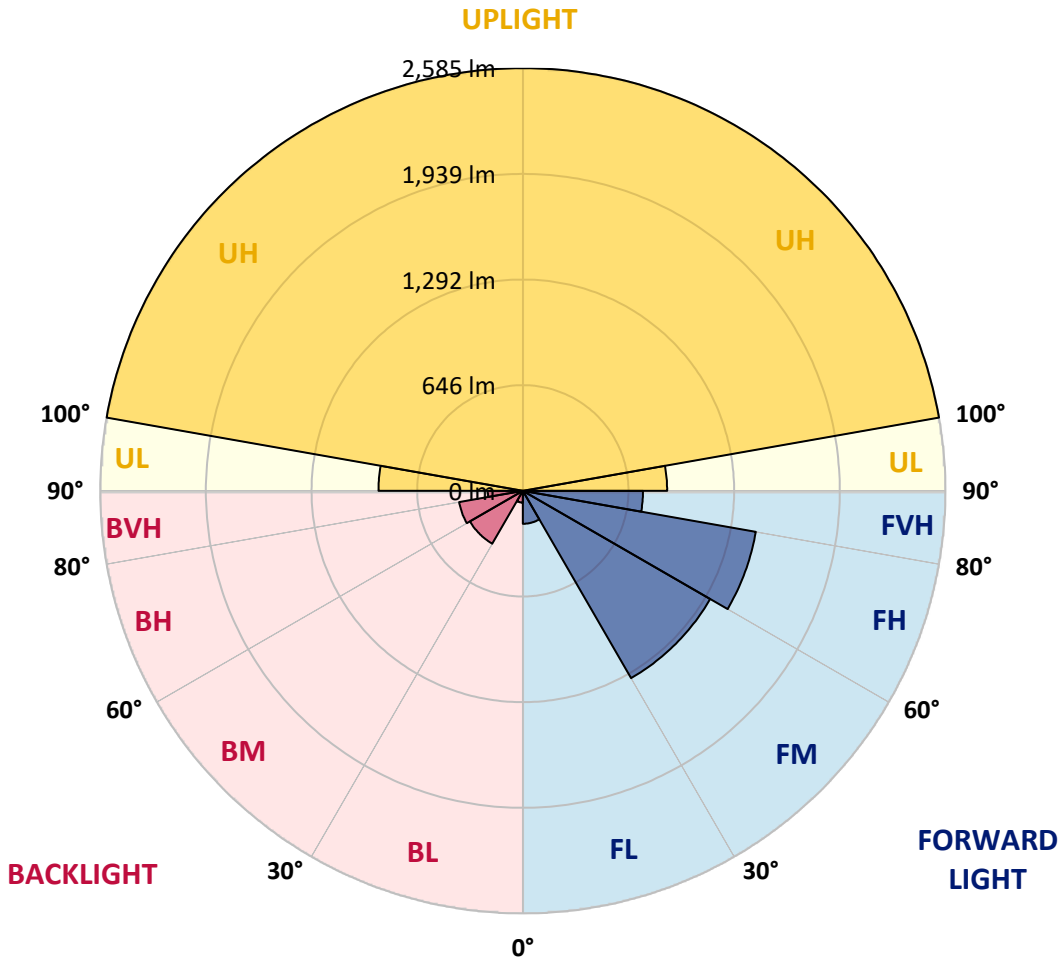
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	201.6	2.4			
FM	(30°-60°)	1323.0	16.1			
FH	(60°-80°)	1446.9	17.6			G1/1800
FVH	(80°-90°)	735.0	8.9			G4/750
BL	(0°-30°)	72.0	0.9	B0/110		
BM	(30°-60°)	373.4	4.5	B1/1000		
BH	(60°-80°)	395.4	4.8	B1/500		G1/500
BVH	(80°-90°)	214.4	2.6			G2/225
UL	(90°-100°)	882.7	10.7		U4/1000	
UH	(100°-180°)	2584.8	31.4		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	*94.1*	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2.5°	*114.6*	115.3	114.6	114.6	115.9	114.6	113.4	109.2	104.4	98.4	95.3
5°	*160.5*	160.5	163.5	163.5	160.5	153.9	146.0	135.2	125.5	115.3	108.0
7.5°	*219.0*	220.2	217.8	211.8	208.2	194.9	187.1	173.2	161.1	147.2	140.6
10°	*280.0*	280.6	277.6	272.1	260.7	247.4	235.9	219.6	204.0	185.8	176.2
12.5°	*345.1*	343.9	338.5	326.4	319.8	304.7	289.6	272.7	251.6	229.3	217.8
15°	*407.3*	404.9	402.5	389.8	380.8	365.7	348.2	325.2	300.5	275.8	258.9
17.5°	*467.0*	461.6	458.0	452.0	438.1	424.8	402.5	375.3	348.8	316.2	298.7
20°	*531.0*	532.2	526.2	517.7	502.6	483.3	461.6	432.6	399.5	360.8	339.7
22.5°	*602.8*	602.8	599.2	588.3	572.6	547.9	522.6	492.4	451.3	410.9	385.0
25°	*682.5*	678.2	673.4	659.5	646.2	619.7	589.5	556.9	514.1	465.2	436.3
27.5°	*761.5*	759.7	754.9	739.8	722.9	695.1	665.0	622.7	576.3	518.9	488.8
30°	*845.4*	843.6	838.7	824.3	799.5	772.4	736.2	690.9	640.2	575.7	542.5
32.5°	*926.2*	926.2	920.2	905.1	879.2	846.6	808.0	757.3	701.2	634.8	595.0
35°	*1016.1*	1015.5	1004.7	986.6	955.2	926.8	883.4	830.3	766.9	690.9	648.7
37.5°	*1098.8*	1095.8	1084.9	1065.6	1036.7	999.8	951.0	892.4	827.3	746.4	698.7
40°	*1180.3*	1176.6	1167.0	1145.3	1110.3	1068.6	1018.6	955.8	882.2	798.3	748.8
42.5°	*1253.9*	1252.7	1238.8	1212.8	1177.9	1130.8	1077.1	1010.7	937.1	846.6	794.1
45°	*1320.9*	1320.9	1307.0	1278.6	1238.8	1191.1	1132.0	1063.8	985.4	890.6	835.1
47.5°	*1384.2*	1384.2	1370.9	1338.4	1294.3	1241.8	1181.5	1110.9	1027.6	930.5	871.3
50°	*1441.5*	1439.1	1424.0	1387.8	1343.2	1288.3	1224.9	1150.7	1066.8	966.1	906.3
52.5°	*1491.0*	1488.0	1470.5	1436.7	1386.6	1328.1	1261.7	1186.3	1098.8	996.8	935.9
55°	*1532.7*	1530.8	1513.9	1475.3	1422.8	1364.3	1293.7	1215.3	1129.0	1022.8	961.2
57.5°	*1568.9*	1565.8	1545.9	1506.7	1454.2	1390.3	1319.0	1241.2	1151.9	1046.3	982.3
60°	*1596.0*	1593.0	1572.5	1533.3	1480.2	1412.6	1341.4	1262.3	1171.8	1065.0	999.8
62.5°	*1618.3*	1614.7	1594.8	1553.2	1497.7	1431.3	1358.3	1278.0	1187.5	1080.1	1014.9
65°	*1632.2*	1629.2	1609.9	1568.3	1510.9	1444.0	1370.9	1290.1	1200.2	1091.6	1026.4
67.5°	*1641.3*	1638.9	1618.9	1578.5	1521.2	1453.0	1378.8	1297.9	1208.6	1100.0	1034.8
70°	*1645.5*	*1643.1*	*1622.6*	*1581.5*	*1524.8*	*1456.6*	*1382.4*	*1301.6*	*1212.8*	*1106.0*	*1040.3*
71°	*1645.5*	1643.1	1623.2	1582.1	1525.4	1457.2	1383.0	1302.2	1213.5	1106.6	1040.9
72.5°	*1643.7*	1641.9	1622.0	1580.3	1523.6	1456.0	1381.2	1301.6	1213.5	1107.3	1042.1
75°	*1637.0*	1633.4	1614.1	1573.7	1517.6	1450.0	1375.8	1296.1	1209.8	1105.4	1040.9
77.5°	*1625.0*	1622.0	1602.0	1562.8	1506.7	1438.5	1364.9	1287.1	1202.6	1099.4	1036.1
80°	*1607.5*	1604.5	1585.2	1544.7	1489.2	1423.4	1349.8	1273.2	1189.9	1089.8	1027.6
82.5°	*1585.2*	1582.7	1564.0	1523.6	1468.7	1403.5	1329.9	1255.1	1176.0	1076.5	1015.5
85°	*1558.6*	1555.6	1535.1	1495.2	1442.7	1377.6	1305.8	1233.4	1156.1	1060.2	1001.1
87.5°	*1526.6*	1524.8	1504.3	1466.3	1413.8	1349.2	1280.4	1209.8	1133.8	1042.1	984.8
90°	*1491.6*	1491.0	1469.3	1431.3	1379.4	1318.4	1250.3	1181.5	1107.9	1020.4	964.8
92.5°	*1456.6*	1456.6	1434.9	1395.7	1344.4	1284.1	1219.5	1153.1	1083.1	998.6	945.5
95°	*1418.0*	1413.8	1393.3	1358.3	1307.0	1249.1	1186.9	1121.7	1054.2	973.9	923.8
97.5°	*1372.8*	1371.5	1351.6	1314.2	1267.2	1211.6	1151.3	1091.0	1025.8	948.6	900.9
100°	*1328.7*	1326.3	1307.6	1273.2	1224.9	1171.8	1115.1	1057.2	995.6	922.6	876.8
102.5°	*1285.3*	1279.2	1259.9	1224.9	1182.7	1130.8	1077.7	1024.6	964.2	894.9	852.0
105°	*1232.8*	1232.2	1212.2	1179.1	1136.2	1090.4	1040.3	988.4	933.5	866.5	826.7
107.5°	*1181.5*	1181.5	1162.8	1130.2	1089.8	1045.7	1001.1	952.2	901.5	836.9	800.7

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REPORT NUMBER: P1223926
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*1129.0*	1128.4	1111.5	1082.5	1043.9	1001.7	960.6	916.0	865.3	808.6	773.0
112.5°	*1077.1*	1075.9	1059.6	1030.0	994.4	960.0	919.0	878.0	831.5	779.0	745.2
115°	*1024.6*	1023.4	1005.9	979.9	947.3	911.7	877.4	838.1	797.7	745.2	715.6
117.5°	*970.3*	969.1	954.6	929.2	898.5	870.1	835.7	801.9	760.9	713.2	683.7
120°	*914.8*	915.4	900.9	878.0	849.6	823.0	792.9	762.1	724.1	678.8	650.5
122.5°	*862.3*	858.0	848.4	827.9	802.5	777.8	752.4	721.1	685.5	642.6	617.9
125°	*806.2*	804.9	795.3	774.8	753.1	733.7	710.2	681.9	649.3	605.8	583.5
127.5°	*751.8*	753.7	742.8	727.7	706.6	690.3	666.2	641.4	610.0	570.8	549.7
130°	*701.2*	700.0	693.9	678.2	660.7	643.8	625.7	603.4	573.8	534.6	515.3
132.5°	*654.1*	648.7	643.2	630.0	615.5	601.6	585.9	563.6	533.4	499.0	482.1
135°	*602.8*	602.8	594.4	582.9	572.6	559.4	543.7	523.2	497.2	467.0	447.7
137.5°	*555.7*	553.3	547.9	538.8	529.2	519.5	506.3	485.7	462.8	433.9	417.0
140°	*511.1*	509.3	504.4	496.6	488.8	479.7	467.6	450.1	429.0	401.3	386.8
142.5°	*464.6*	465.8	461.6	456.2	447.1	441.1	430.2	414.5	395.8	371.7	357.8
145°	*423.0*	423.6	421.8	416.4	409.7	403.7	392.2	380.8	362.6	340.9	330.7
147.5°	*388.6*	386.2	382.6	379.5	373.5	368.7	359.6	348.8	331.9	313.2	303.5
150°	*350.0*	351.8	348.2	344.5	340.9	334.3	327.7	318.6	302.9	287.8	277.6
152.5°	*317.4*	318.6	315.6	313.8	310.2	304.7	298.1	289.6	277.6	264.3	254.6
155°	*288.4*	288.4	288.4	286.0	281.8	278.2	271.5	263.7	253.4	241.4	234.7
157.5°	*261.9*	262.5	262.5	259.5	256.4	253.4	248.0	241.4	232.3	222.1	217.2
160°	*240.8*	239.6	238.9	236.5	234.1	231.7	226.9	221.5	213.6	205.2	200.9
162.5°	*219.6*	219.6	218.4	216.6	214.8	211.2	208.2	202.7	197.3	191.3	186.5
165°	*203.3*	202.7	202.7	200.3	198.5	195.5	192.5	188.9	184.0	178.6	175.0
167.5°	*189.5*	188.3	187.7	186.5	184.0	182.2	179.2	176.2	172.6	169.0	165.9
170°	*176.2*	176.8	175.6	174.4	173.2	171.4	169.0	166.5	163.5	159.9	158.7
172.5°	*167.1*	166.5	165.9	164.7	163.5	161.7	160.5	158.1	156.3	153.9	152.7
175°	*158.7*	158.7	158.1	156.9	155.7	154.5	153.3	152.1	150.9	149.0	148.4
177.5°	*152.1*	152.1	152.1	150.9	150.2	149.6	148.4	147.8	147.2	146.0	146.0
180°	*145.4*	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2.5°	92.3	84.5	77.8	71.8	67.0	62.8	60.3	56.1	53.1	51.3
5°	103.8	92.3	82.7	73.0	65.8	57.9	50.1	42.2	37.4	36.8
7.5°	131.5	118.9	104.4	91.7	77.2	65.2	54.9	47.1	44.0	43.4
10°	166.5	147.8	128.5	109.8	91.1	76.0	65.2	57.9	54.3	53.7
12.5°	205.2	179.8	155.1	130.9	108.6	91.7	78.4	70.0	65.8	65.8
15°	245.0	213.6	182.2	152.7	126.7	105.6	89.3	78.4	73.6	73.0
17.5°	280.0	244.4	207.0	172.0	140.6	114.0	94.7	81.5	75.4	74.8
20°	319.8	274.6	231.7	188.3	151.5	120.7	97.8	82.7	74.8	74.2
22.5°	362.0	310.8	257.7	207.0	162.9	127.3	100.8	83.9	75.4	74.2
25°	409.7	348.2	284.2	225.7	174.4	133.4	103.8	85.1	76.0	74.8
27.5°	455.0	386.8	312.6	243.2	184.6	138.8	106.2	86.3	76.6	75.4
30°	503.2	424.8	340.3	261.9	195.5	144.2	108.6	86.9	76.6	75.4
32.5°	552.1	461.6	369.3	278.8	204.6	147.8	109.8	87.5	77.2	76.0
35°	604.0	501.4	396.4	296.3	213.0	151.5	111.0	88.1	77.2	76.0
37.5°	651.7	539.4	423.0	311.4	220.2	154.5	112.2	88.1	77.8	76.6
40°	694.5	573.8	446.5	324.6	226.3	156.3	112.8	88.7	78.4	77.2
42.5°	736.8	607.6	467.6	335.5	231.1	157.5	113.4	89.3	79.0	77.8
45°	774.2	636.0	486.9	345.8	234.7	158.7	114.0	89.9	79.6	78.4
47.5°	807.4	662.5	505.1	354.2	237.1	159.3	114.6	90.5	80.9	79.6
50°	839.3	687.9	518.9	360.8	239.6	159.9	114.6	91.7	82.7	81.5
52.5°	866.5	708.4	531.6	366.3	240.8	160.5	115.9	92.9	83.9	83.3
55°	890.0	726.5	543.1	370.5	242.0	160.5	117.1	94.7	86.3	85.1
57.5°	909.3	741.0	550.9	372.9	242.0	161.1	117.7	97.1	88.7	87.5
60°	926.2	753.7	558.2	375.9	242.6	161.7	119.5	99.6	91.7	91.1
62.5°	940.1	763.3	563.6	377.7	243.2	163.5	121.9	102.6	94.7	94.1
65°	951.0	771.8	567.8	378.9	243.8	164.7	124.3	105.6	99.0	98.4
67.5°	958.2	777.8	570.8	379.5	244.4	166.5	127.3	109.8	103.2	102.0
70°	*963.6*	*781.4*	*572.6*	*380.1*	*245.6*	*168.4*	*130.9*	*113.4*	*107.4*	*106.8*
71°	964.8	782.0	573.2	380.1	246.2	169.6	132.1	115.3	109.2	108.6
72.5°	965.5	782.6	573.2	380.1	246.8	171.4	134.6	118.3	112.2	111.6
75°	964.8	782.0	572.6	380.1	248.0	174.4	138.8	122.5	117.1	116.5
77.5°	960.6	779.6	570.8	380.1	249.8	178.0	143.6	128.5	122.5	121.9
80°	953.4	774.8	567.8	379.5	251.6	182.2	148.4	134.0	127.9	127.3
82.5°	943.7	767.5	563.6	379.5	254.0	185.8	153.3	138.8	134.0	133.4
85°	931.1	759.1	559.4	378.9	257.1	190.7	159.3	145.4	140.6	139.4
87.5°	916.0	748.8	554.5	378.9	260.1	196.1	165.3	151.5	146.6	145.4
90°	899.1	737.4	549.7	378.9	263.7	201.5	172.0	158.1	152.7	152.1
92.5°	882.2	726.5	544.9	379.5	268.5	207.6	178.6	165.3	159.9	159.9
95°	862.9	713.2	539.4	380.8	273.3	214.2	186.5	172.6	167.1	166.5
97.5°	843.6	701.2	535.2	382.6	278.8	222.1	193.7	180.4	175.0	173.8
100°	821.8	688.5	531.0	385.0	285.4	229.3	201.5	188.3	182.8	182.2
102.5°	800.7	674.6	526.2	388.0	292.0	237.7	210.0	196.1	190.7	190.1
105°	777.8	660.1	520.7	390.4	298.7	245.6	217.8	203.3	197.3	197.3
107.5°	755.5	645.0	515.3	393.4	305.3	253.4	225.1	210.6	204.0	203.3

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

Scaled Data Report

REPORT NUMBER: P1223926
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	730.1	628.8	508.7	395.2	311.4	260.1	231.7	216.0	209.4	208.8
112.5°	707.2	611.3	501.4	395.8	316.8	266.1	237.1	220.8	214.2	213.0
115°	678.2	593.1	491.8	394.6	319.8	270.9	240.8	223.9	216.6	215.4
117.5°	650.5	572.6	481.5	391.6	321.6	273.3	243.2	225.7	217.8	216.6
120°	622.1	549.7	467.0	386.2	319.8	273.3	243.2	224.5	216.6	216.0
122.5°	590.1	525.6	452.0	378.3	316.8	270.9	240.8	222.7	214.2	213.6
125°	556.9	499.6	433.9	367.5	310.8	267.3	237.1	219.0	210.6	210.0
127.5°	525.0	473.1	415.1	354.8	302.3	261.3	232.3	213.6	205.2	204.0
130°	493.6	445.3	394.0	339.7	292.0	253.4	225.7	208.2	199.7	198.5
132.5°	461.0	418.8	372.9	325.2	281.2	245.0	218.4	201.5	193.7	192.5
135°	430.2	391.0	350.0	307.7	268.5	235.3	210.6	194.9	187.1	186.5
137.5°	400.7	365.1	328.9	290.8	255.8	225.7	202.7	188.3	181.0	179.8
140°	370.5	339.7	307.1	274.6	242.0	215.4	194.9	181.0	174.4	173.2
142.5°	344.5	315.6	286.6	256.4	228.7	204.6	186.5	173.8	168.4	167.7
145°	317.4	292.0	266.1	240.2	216.0	194.9	178.6	167.7	162.3	161.7
147.5°	293.3	269.1	246.8	224.5	203.3	184.6	170.8	161.7	157.5	156.9
150°	268.5	249.2	229.9	209.4	191.3	175.6	164.1	156.3	152.1	151.5
152.5°	246.8	230.5	213.0	197.3	180.4	167.7	158.1	150.9	147.8	147.2
155°	228.1	214.2	199.7	185.2	172.0	161.7	153.3	147.2	144.8	144.8
157.5°	211.8	199.7	187.7	175.6	164.7	155.7	149.0	144.8	142.4	141.8
160°	196.1	186.5	175.6	166.5	158.1	151.5	146.0	142.4	140.6	140.0
162.5°	183.4	175.0	167.7	159.9	153.3	147.8	143.6	140.6	139.4	139.4
165°	172.6	166.5	159.9	154.5	149.0	144.8	141.8	140.0	138.8	138.8
167.5°	164.1	158.7	154.5	149.6	146.0	143.0	140.6	139.4	138.8	138.2
170°	156.9	153.3	149.6	146.6	143.6	141.8	140.0	139.4	138.8	138.8
172.5°	151.5	149.0	146.6	144.2	142.4	140.6	140.0	139.4	139.4	139.4
175°	147.2	146.0	144.2	143.0	141.8	141.2	140.6	140.6	140.6	140.6
177.5°	145.4	144.2	143.6	143.0	142.4	142.4	142.4	143.0	143.0	143.0
180°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

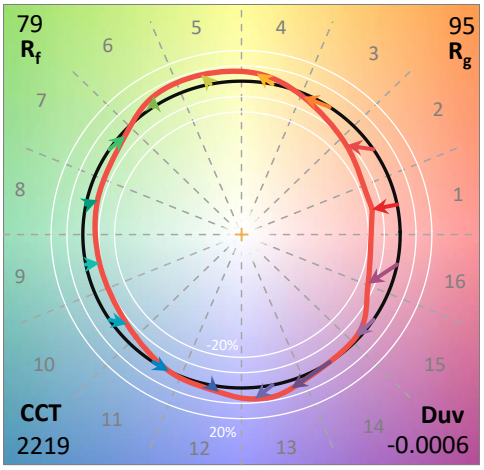
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
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-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

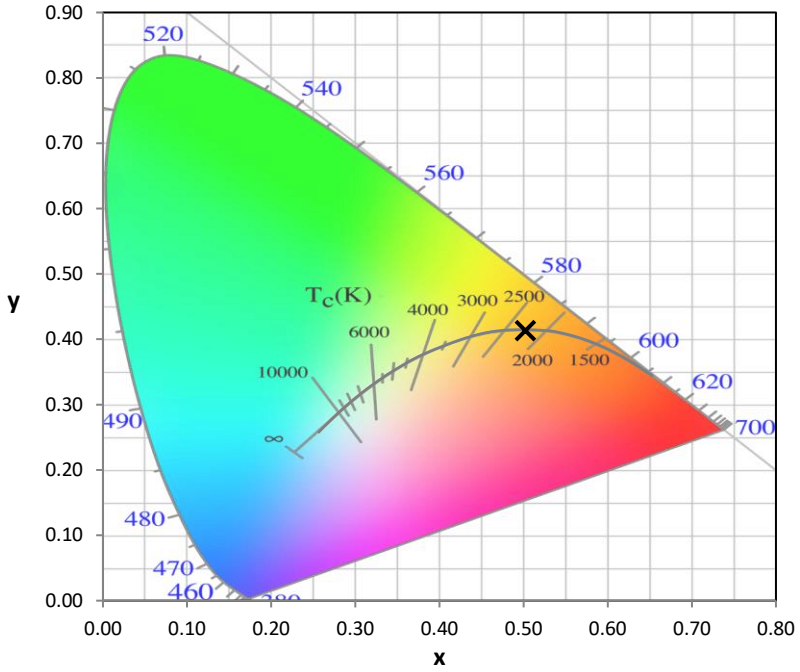
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

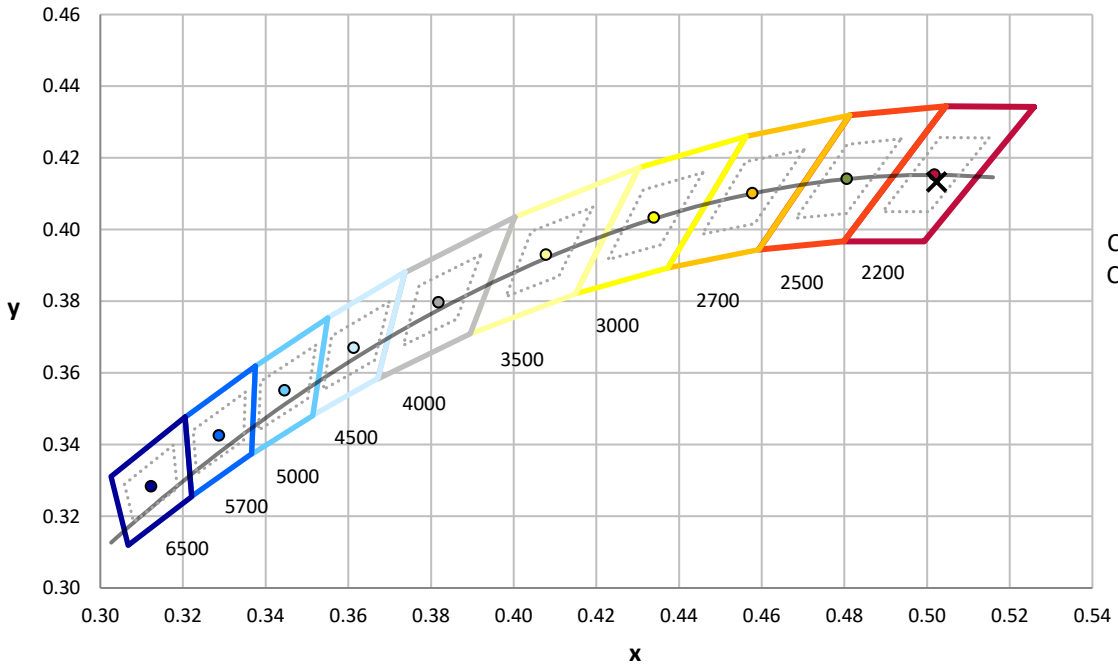
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

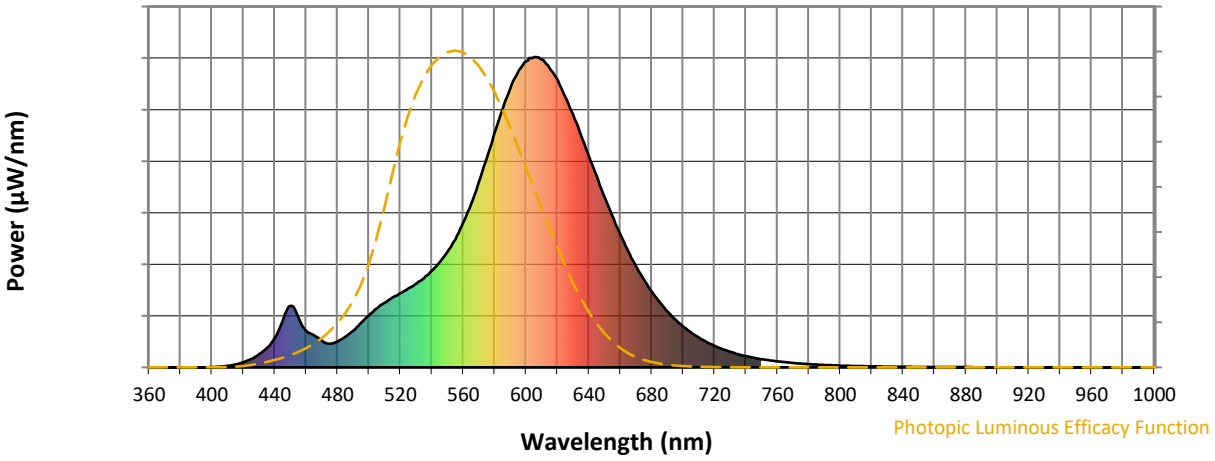


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

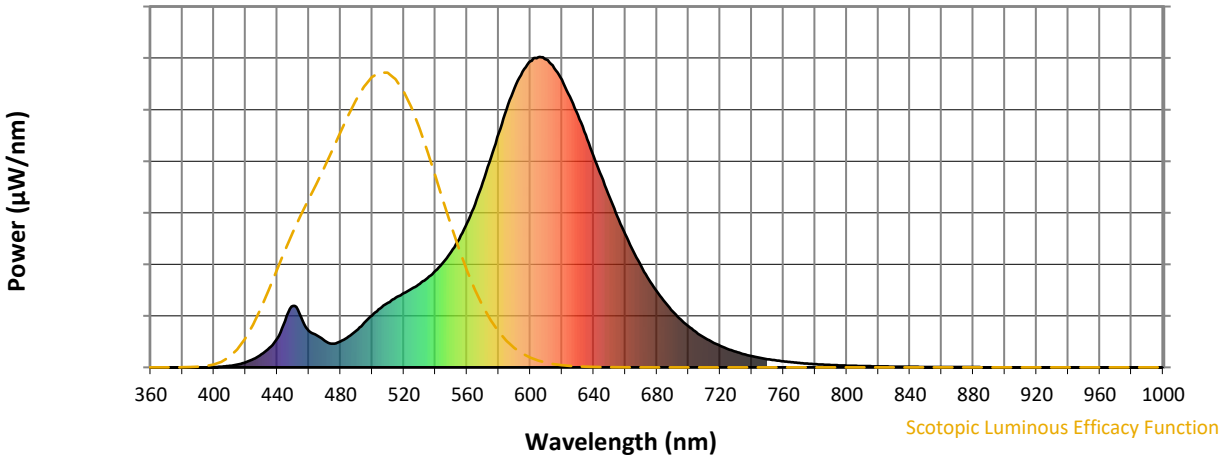


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

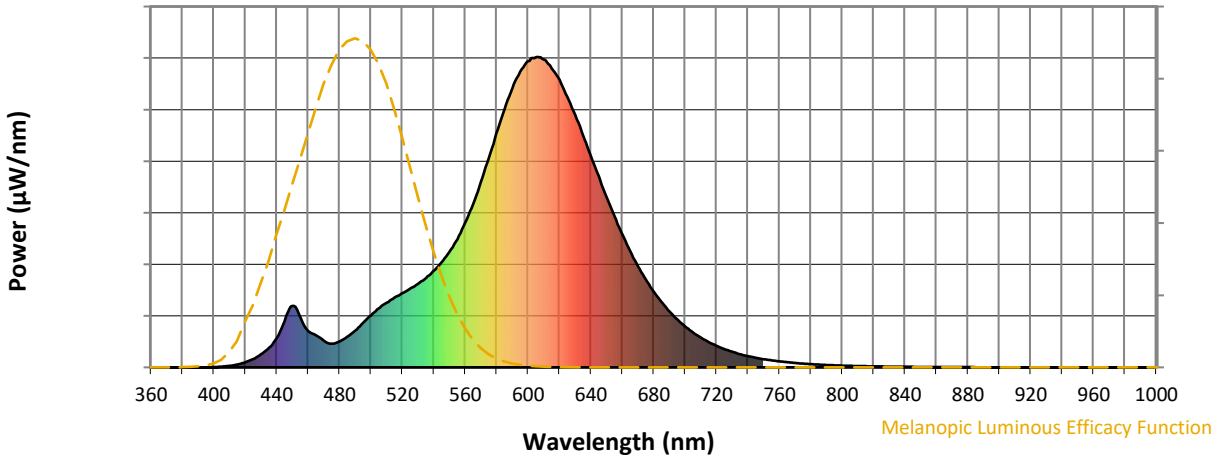


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

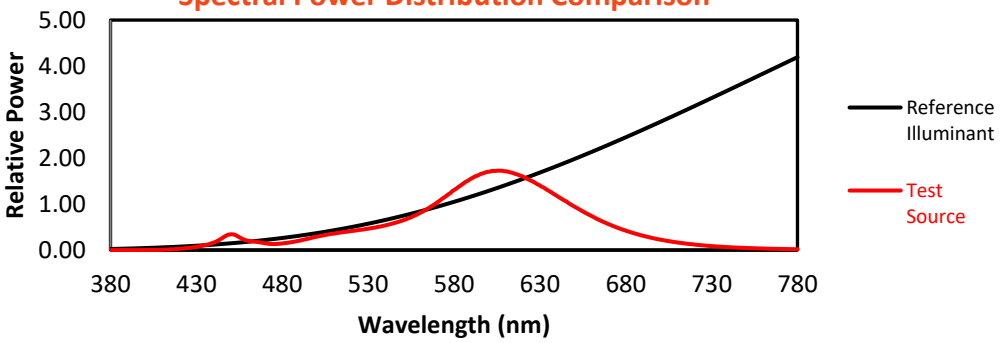
REPORT NUMBER: SP1-2501-332-2

TM-30-18

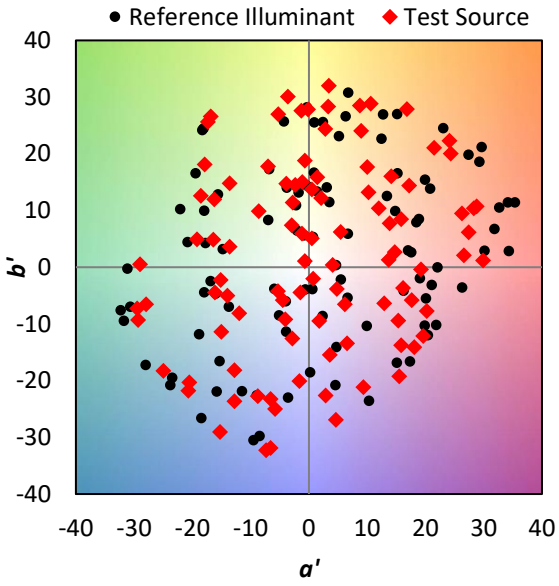
Summary

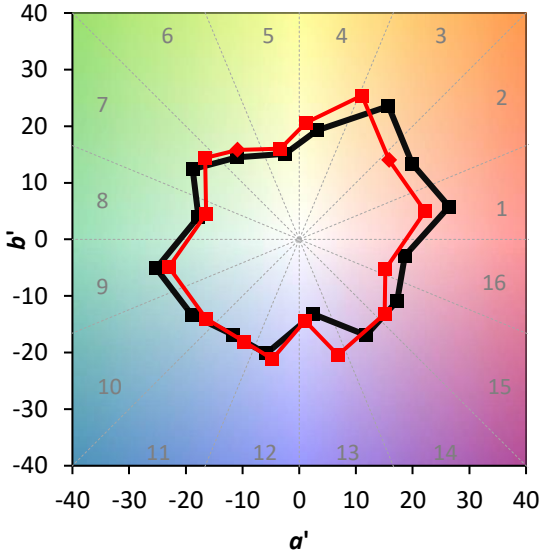
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

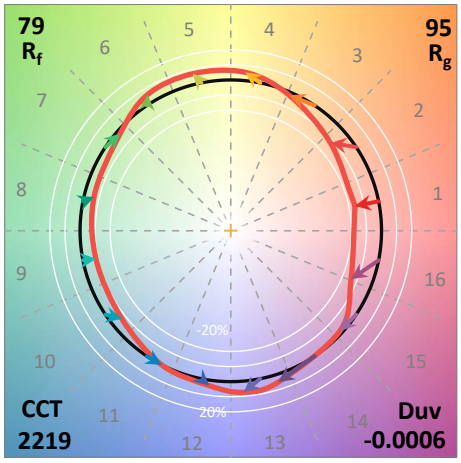
Spectral Power Distribution Comparison

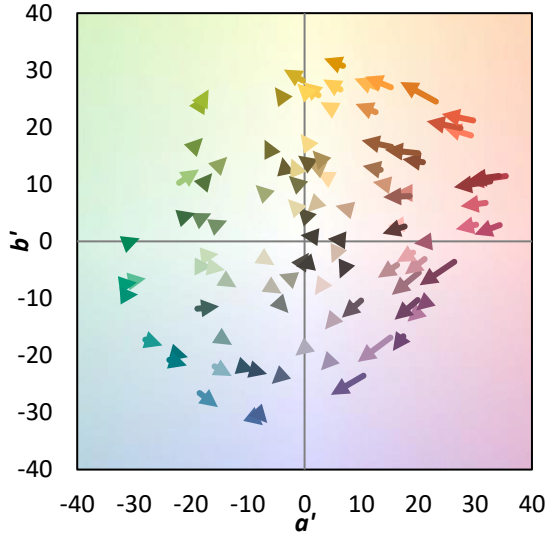


Color Vector Graphics







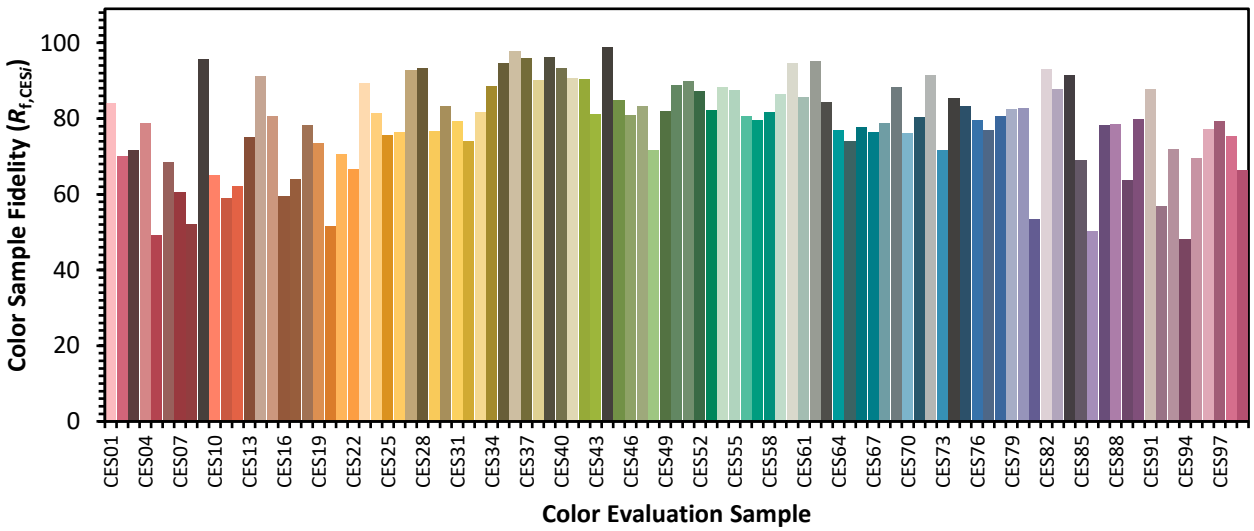


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

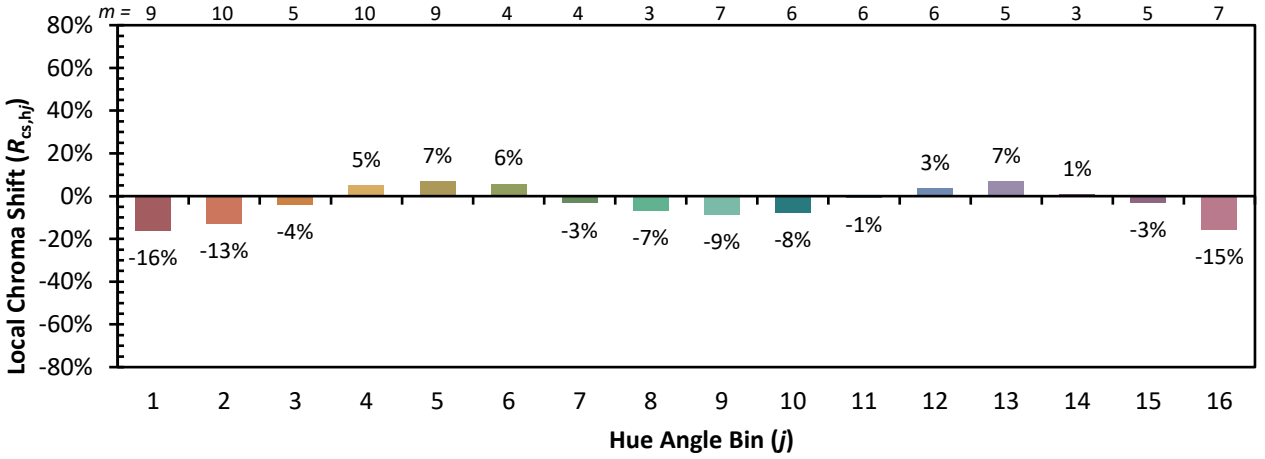
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

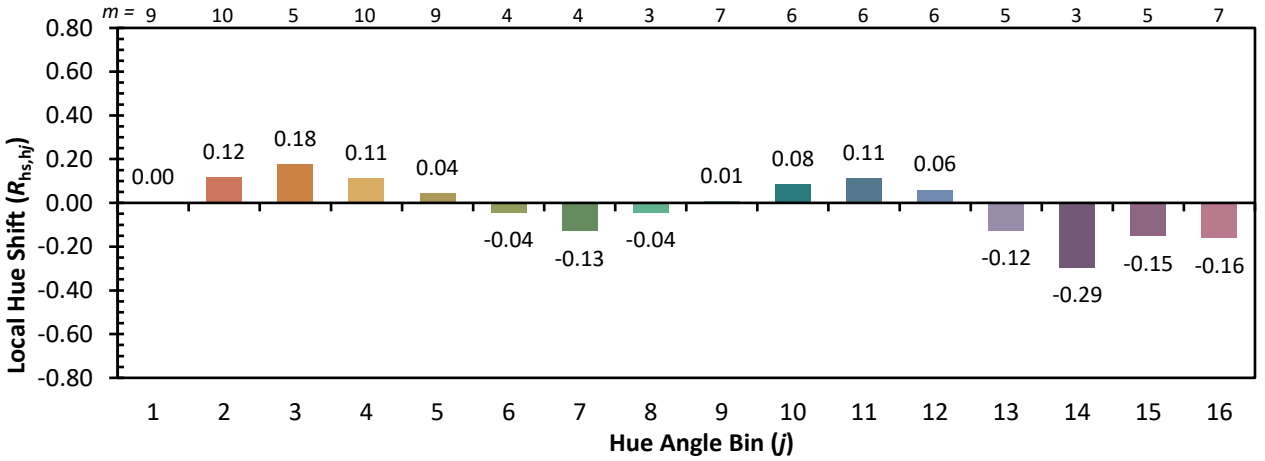


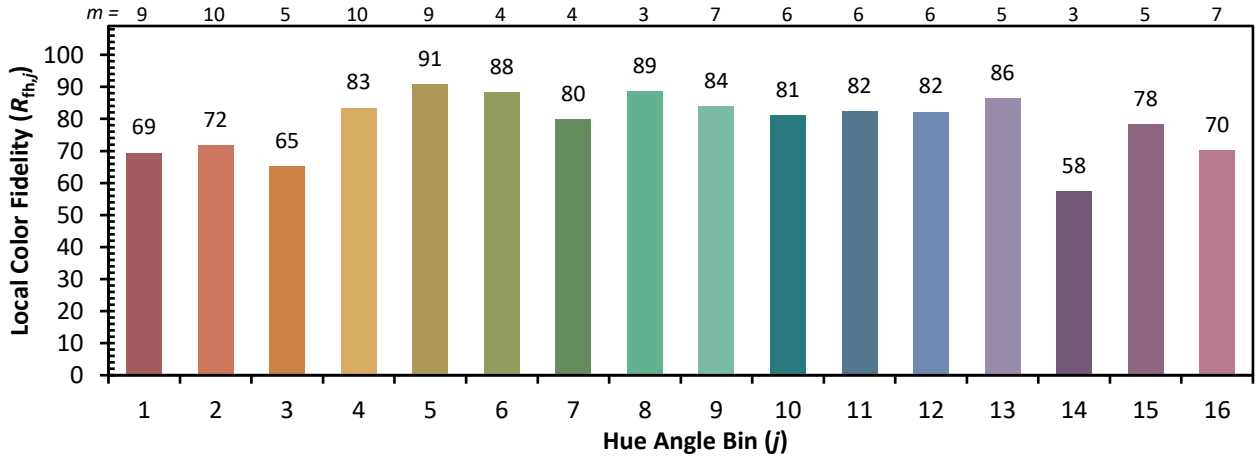
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Color Rendition by Hue-Angle Bin



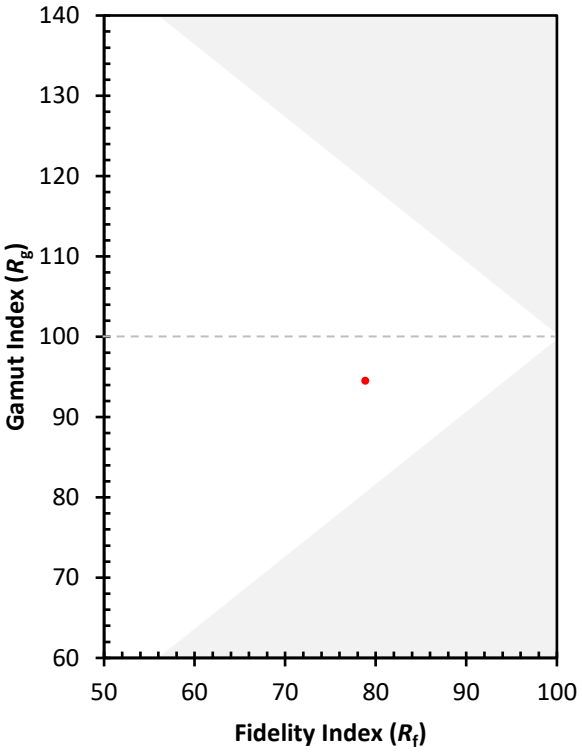


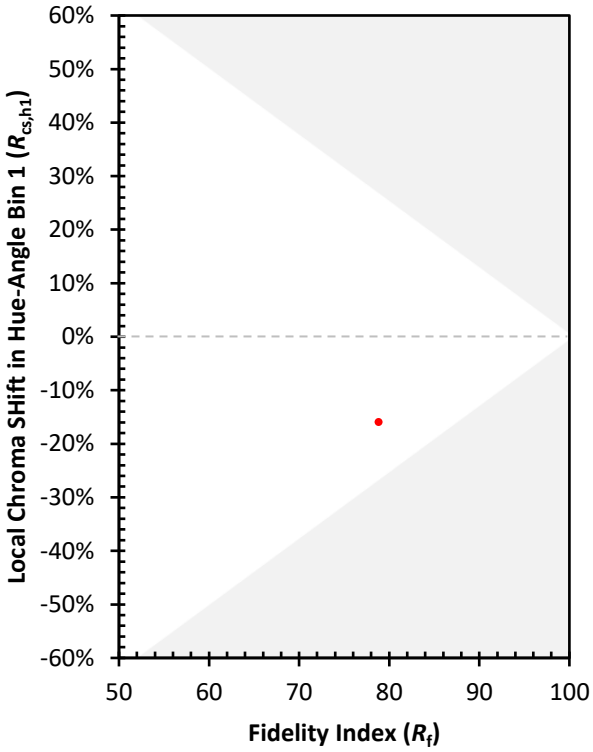


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Measure Comparisons





(END OF REPORT)