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: P1223989

Luminaire Tested: **FFX-CLB-70-730-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:	P1223989
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-730-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:	10621.1 lumens
Efficiency:	N/A
Efficacy:	149.2 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):	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

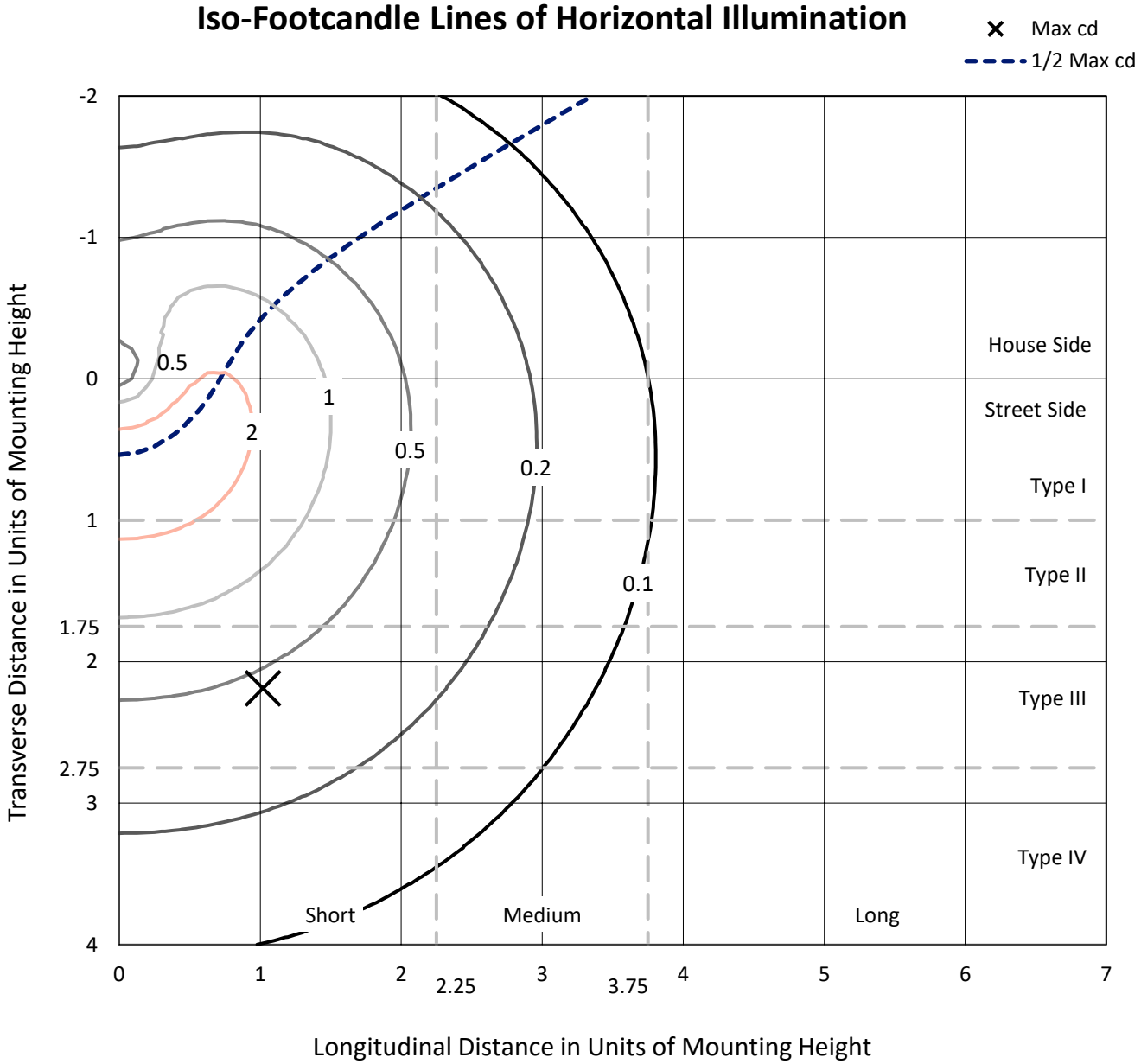


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Iso-Footcandle Lines of Horizontal Illumination



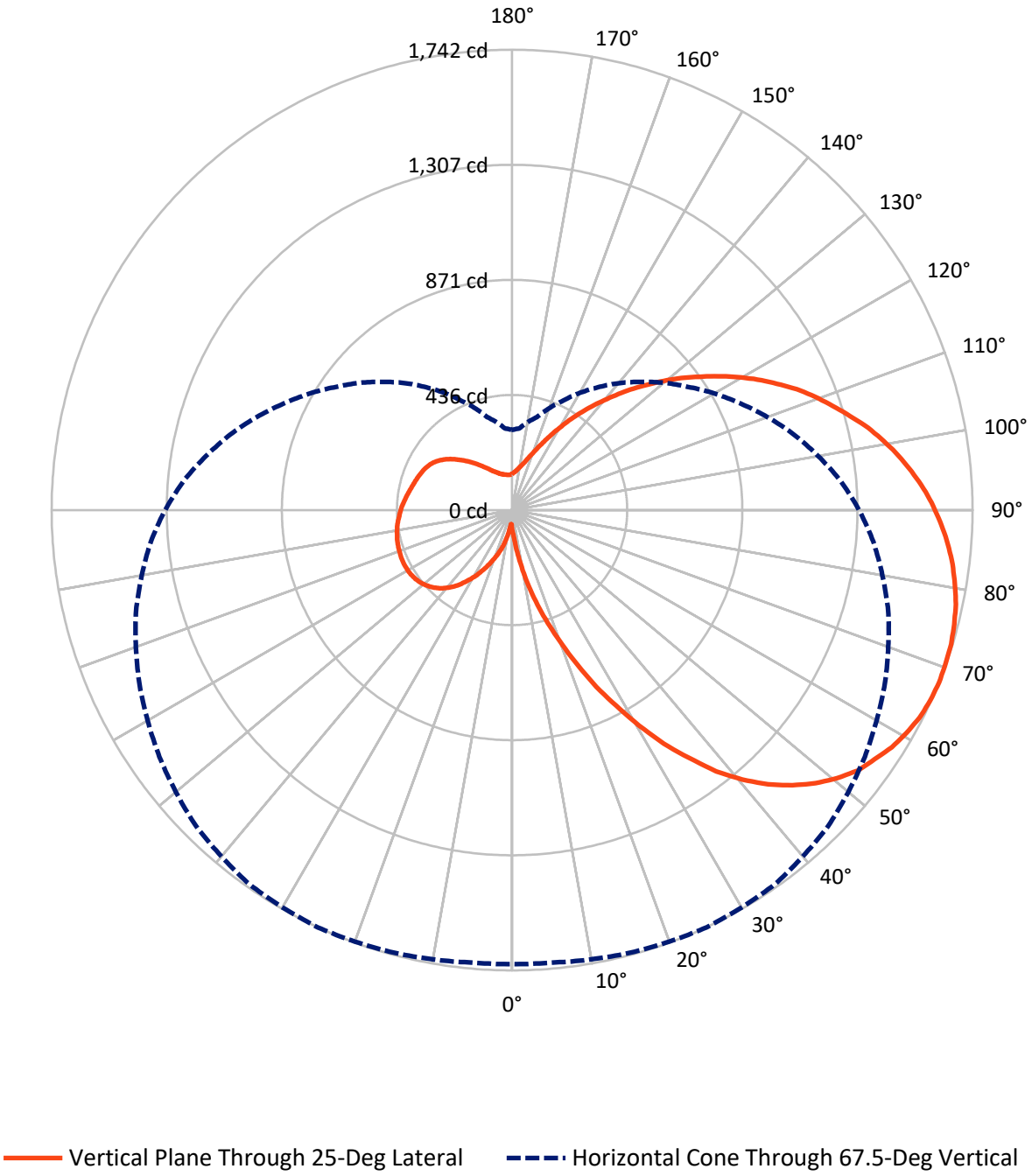
Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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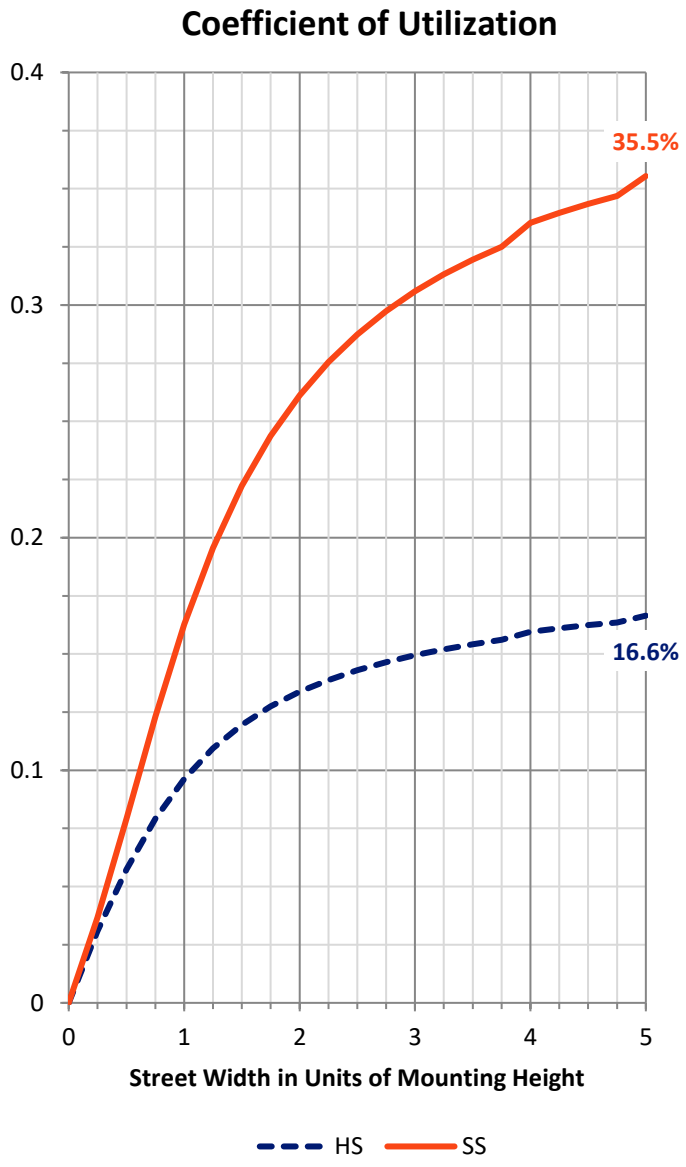
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1945.1	1486.8	3431.9
	% Fixture	18.3	14.0	32.3
Street Side	Lumens	4298.0	2891.2	7189.2
	% Fixture	40.5	27.2	67.7
Total	Lumens	6243.1	4378.0	10621.1
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.1
10°-20°	80.8	0.8
20°-30°	241.9	2.3
30°-40°	497.9	4.7
40°-50°	777.5	7.3
50°-60°	1006.9	9.5
60°-70°	1161.1	10.9
70°-80°	1235.4	11.6
80°-90°	1230.0	11.6
90°-100°	1147.5	10.8
100°-110°	1003.0	9.4
110°-120°	821.4	7.7
120°-130°	610.8	5.8
130°-140°	397.3	3.7
140°-150°	225.1	2.1
150°-160°	110.9	1.0
160°-170°	48.4	0.5
170°-180°	13.6	0.1
0°-90°	6243.1	58.8
0°-180°	10621.1	100.0



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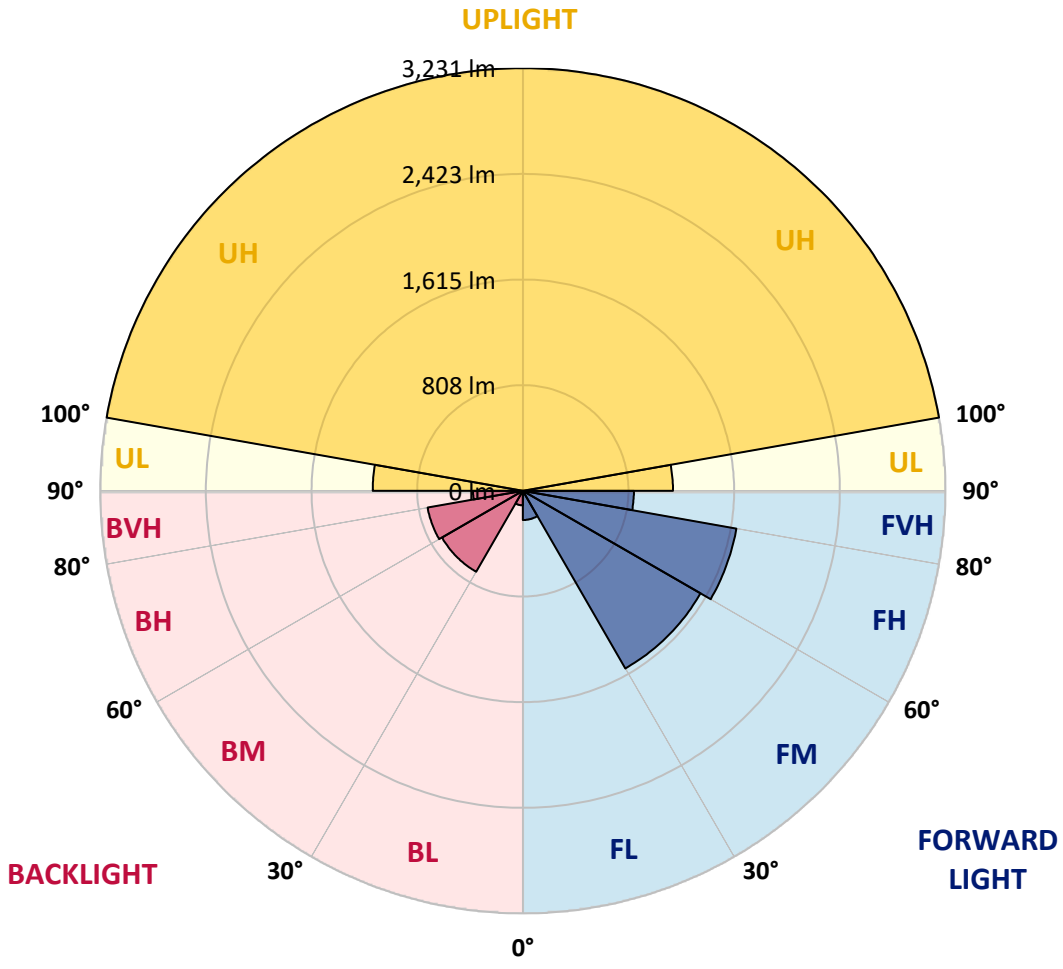
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	223.1	2.1			
FM	(30°-60°)	1568.2	14.8			
FH	(60°-80°)	1657.6	15.6			G1/1800
FVH	(80°-90°)	849.0	8.0			G5
BL	(0°-30°)	111.2	1.0	B1/500		
BM	(30°-60°)	714.1	6.7	B1/1000		
BH	(60°-80°)	738.8	7.0	B2/1000		G2/1000
BVH	(80°-90°)	381.0	3.6			G3/500
UL	(90°-100°)	1147.5	10.8		U5	
UH	(100°-180°)	3230.5	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°	76.9	76.9	76.9	*76.9*	76.9	76.9	76.9	76.9	76.9	76.9	76.9
2.5°	91.7	91.7	92.4	*92.4*	91.0	91.7	90.3	88.3	87.0	83.6	82.3
5°	133.5	131.5	132.1	*130.8*	128.1	126.8	121.4	117.3	110.6	103.2	99.8
7.5°	185.4	186.1	183.4	*180.0*	179.3	171.9	170.6	157.8	152.4	139.6	136.2
10°	249.5	248.1	245.4	*244.7*	238.7	231.3	219.8	213.1	195.5	186.1	178.7
12.5°	319.6	320.3	315.5	*310.8*	305.4	295.3	279.8	269.0	254.9	235.3	225.9
15°	395.1	392.4	392.4	*387.0*	378.9	367.5	355.3	339.8	319.6	298.7	285.2
17.5°	465.2	470.6	468.6	*461.8*	454.4	440.3	427.5	405.9	383.6	360.7	343.9
20°	552.9	554.2	550.8	*544.8*	538.0	521.9	506.3	484.8	457.1	421.4	407.2
22.5°	641.2	643.9	643.9	*640.5*	631.1	616.9	592.0	568.4	534.0	498.3	474.7
25°	743.0	741.0	743.0	*741.0*	725.5	712.7	687.0	658.7	621.6	577.8	549.5
27.5°	845.5	848.2	842.8	*838.1*	832.0	811.8	784.1	748.4	701.9	656.0	625.7
30°	945.3	951.3	951.3	*945.9*	936.5	916.3	885.3	846.8	795.6	737.6	701.9
32.5°	1049.8	1051.8	1054.5	*1053.8*	1043.0	1023.5	989.1	937.2	879.9	815.8	780.8
35°	1160.3	1154.3	1155.6	*1151.6*	1146.9	1122.6	1082.8	1032.9	970.9	899.4	856.9
37.5°	1252.0	1249.3	1251.4	*1254.7*	1241.9	1217.0	1171.1	1113.1	1045.0	970.2	927.7
40°	1339.0	1337.0	1340.4	*1341.0*	1328.2	1299.2	1250.7	1194.7	1121.2	1034.9	995.2
42.5°	1411.8	1411.8	1415.2	*1419.2*	1405.8	1374.7	1325.5	1258.8	1183.3	1096.3	1047.7
45°	1479.3	1477.2	1484.0	*1486.0*	1472.5	1441.5	1386.2	1318.8	1237.9	1149.6	1099.0
47.5°	1533.2	1533.9	1540.6	*1544.7*	1532.5	1497.5	1441.5	1370.0	1285.7	1193.4	1141.5
50°	1577.7	1583.8	1589.8	*1594.5*	1581.7	1546.7	1488.7	1411.2	1326.9	1233.8	1179.9
52.5°	1622.2	1622.2	1631.6	*1637.7*	1623.5	1587.1	1526.4	1450.9	1364.6	1266.2	1213.6
55°	1650.5	1651.2	1662.6	*1664.7*	1655.9	1618.1	1556.1	1480.6	1394.3	1295.2	1239.2
57.5°	1675.5	1676.1	1688.9	*1693.7*	1681.5	1645.1	1581.7	1503.5	1419.2	1318.1	1261.5
60°	1697.0	1696.4	1707.1	*1713.9*	1701.7	1663.3	1601.3	1525.1	1438.8	1339.0	1280.4
62.5°	1710.5	1710.5	1723.3	*1730.1*	1717.3	1679.5	1616.1	1540.6	1454.3	1353.2	1295.2
65°	1716.6	1717.9	1730.1	*1738.2*	1726.0	1687.6	1624.2	1550.0	1465.1	1364.6	1306.0
67.5°	*1718.6*	*1719.3*	*1734.1*	*1742.2*	*1730.7*	*1691.6*	*1628.9*	*1556.1*	*1473.2*	*1372.0*	*1312.7*
70°	1719.9	1720.6	1732.1	*1740.2*	1730.1	1691.0	1630.3	1558.8	1477.9	1376.1	1316.8
72.5°	1712.5	1714.6	1727.4	*1736.8*	1724.7	1686.2	1626.9	1558.8	1477.2	1378.8	1318.1
75°	1703.1	1707.8	1719.3	*1727.4*	1716.6	1679.5	1621.5	1556.1	1476.6	1377.4	1318.1
77.5°	1693.7	1694.3	1709.2	*1716.6*	1705.1	1667.4	1612.1	1549.4	1472.5	1373.4	1313.4
80°	1674.8	1678.8	1691.6	*1698.4*	1688.3	1652.5	1598.6	1539.9	1465.1	1366.7	1306.0
82.5°	1661.3	1659.9	1672.8	*1678.8*	1668.7	1631.6	1583.1	1525.1	1454.3	1355.2	1295.9
85°	1635.7	1638.4	1648.5	*1653.9*	1642.4	1608.7	1562.2	1510.3	1439.5	1342.4	1282.4
87.5°	1611.4	1612.7	1619.5	*1625.6*	1614.1	1581.7	1538.6	1489.4	1421.3	1326.2	1267.5
90°	1581.1	1581.7	1589.1	*1593.9*	1583.8	1553.4	1513.6	1465.8	1401.7	1308.0	1249.3
92.5°	1552.7	1551.4	1556.8	*1558.8*	1550.0	1520.4	1484.6	1440.1	1378.1	1285.7	1229.1
95°	1515.7	1515.0	1519.7	*1518.4*	1508.9	1483.3	1450.9	1411.8	1350.5	1262.2	1206.2
97.5°	1474.5	1475.2	1477.9	*1476.6*	1466.4	1442.8	1417.9	1378.8	1322.2	1234.5	1180.6
100°	1428.7	1430.7	1434.8	*1430.7*	1421.9	1404.4	1378.1	1345.8	1289.8	1206.9	1153.6
102.5°	1390.3	1384.9	1383.5	*1382.8*	1374.1	1358.6	1338.3	1310.0	1258.1	1176.5	1125.3
105°	1339.7	1336.3	1335.6	*1328.2*	1324.9	1312.0	1295.2	1269.6	1223.0	1146.2	1096.3
107.5°	1286.4	1287.1	1284.4	*1275.6*	1270.9	1262.2	1252.7	1229.8	1185.3	1112.5	1066.6
110°	1238.6	1235.2	1227.8	*1223.7*	1220.3	1212.9	1206.9	1189.3	1148.2	1080.1	1034.3

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REPORT NUMBER: P1223989
CATALOG NUMBER: FFX-CLB-70-730-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1179.2	1181.2	1172.5	*1169.8*	1164.4	1163.7	1159.7	1145.5	1109.1	1045.7	1002.6
115°	1126.0	1124.6	1115.8	*1110.4*	1108.4	1109.8	1112.5	1102.4	1068.6	1008.6	968.9
117.5°	1067.3	1063.3	1057.2	*1051.8*	1049.1	1054.5	1060.6	1055.8	1027.5	970.9	933.1
120°	1004.6	1005.3	996.5	*991.1*	991.8	1000.6	1008.6	1005.9	979.0	928.4	894.7
122.5°	945.9	942.6	935.2	*929.8*	934.5	943.9	953.4	952.7	929.1	879.9	849.5
125°	881.9	881.2	873.8	*868.4*	872.4	883.2	894.7	896.0	873.8	832.7	802.3
127.5°	821.2	819.2	817.8	*811.8*	814.5	829.3	837.4	836.7	817.2	779.4	753.1
130°	763.2	762.5	754.5	*751.8*	755.1	767.3	775.4	774.0	758.5	725.5	701.9
132.5°	704.6	701.9	698.5	*694.5*	697.1	707.3	718.1	716.7	698.5	666.8	647.9
135°	646.6	644.6	641.9	*639.2*	641.2	651.3	660.7	658.0	642.5	614.2	595.3
137.5°	593.3	591.3	587.9	*584.6*	587.3	595.3	601.4	599.4	586.6	559.6	541.4
140°	538.0	539.4	535.3	*532.6*	534.0	542.1	546.8	544.1	529.9	507.7	492.9
142.5°	487.5	487.5	485.4	*484.8*	486.8	490.8	494.9	489.5	480.0	457.1	445.0
145°	438.9	439.6	438.9	*437.6*	438.2	443.0	443.6	441.6	430.8	414.0	400.5
147.5°	393.1	395.1	393.7	*393.7*	394.4	396.4	399.1	394.4	385.0	370.1	360.7
150°	350.6	351.9	351.9	*350.6*	350.6	353.3	353.3	349.9	342.5	330.4	321.6
152.5°	313.5	314.2	314.2	*312.8*	313.5	314.2	312.8	308.8	302.7	293.3	286.5
155°	279.8	281.2	279.1	*279.8*	277.8	278.5	277.8	275.1	268.3	260.3	256.2
157.5°	249.5	251.5	250.1	*250.1*	248.8	248.1	247.4	244.7	240.0	233.3	228.6
160°	225.2	226.5	224.5	*224.5*	223.2	223.2	220.5	219.1	214.4	208.3	205.6
162.5°	204.3	204.3	203.6	*204.3*	203.6	201.6	200.2	197.5	193.5	188.8	186.8
165°	187.4	186.8	186.8	*186.1*	185.4	184.1	182.0	180.7	176.6	172.6	171.3
167.5°	174.6	174.0	173.3	*172.6*	171.3	170.6	168.6	167.2	163.8	160.5	159.1
170°	163.8	163.8	162.5	*161.8*	161.1	159.8	157.8	155.7	153.0	151.0	149.7
172.5°	154.4	154.4	153.7	*153.0*	152.4	151.0	149.0	147.7	145.6	143.6	142.3
175°	147.7	147.7	147.0	*145.6*	145.0	143.6	142.3	140.9	138.9	137.5	136.9
177.5°	142.3	142.3	142.3	*140.9*	140.2	138.9	137.5	136.2	135.5	134.2	134.2
180°	135.5	135.5	135.5	*135.5*	135.5	135.5	135.5	135.5	135.5	135.5	135.5

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
2.5°	80.2	76.2	72.8	67.4	62.7	58.7	56.0	53.9	52.6	51.2
5°	95.7	88.3	80.9	72.8	65.4	58.7	53.3	49.2	47.2	47.2
7.5°	130.8	119.3	106.5	95.1	86.3	77.5	69.4	64.7	62.0	60.7
10°	171.3	154.4	141.6	127.4	111.9	101.1	91.7	85.6	82.3	82.9
12.5°	219.8	198.9	182.7	161.8	145.0	128.1	118.0	109.2	105.2	104.5
15°	273.7	249.5	225.9	200.9	178.7	159.1	144.3	132.8	126.1	125.4
17.5°	330.4	300.0	268.3	240.0	211.0	186.8	166.5	153.0	145.6	145.6
20°	387.7	353.3	316.2	279.1	244.1	214.4	190.8	173.3	163.8	162.5
22.5°	453.8	409.9	365.4	320.3	280.5	243.4	213.1	192.2	182.0	180.0
25°	525.9	474.0	420.7	367.5	318.2	273.7	238.7	215.1	200.9	198.9
27.5°	600.7	538.0	475.3	413.3	356.0	306.8	264.3	234.0	219.8	217.8
30°	674.2	605.5	532.6	459.8	395.1	338.5	289.9	254.9	237.3	234.6
32.5°	746.4	668.2	587.9	507.0	436.2	370.1	313.5	275.8	254.2	251.5
35°	815.1	734.2	640.5	553.5	472.6	401.8	338.5	294.6	270.4	267.7
37.5°	882.6	790.9	692.4	596.7	509.0	428.8	361.4	312.2	285.2	282.5
40°	946.6	844.8	737.6	636.5	540.7	455.8	380.9	327.7	297.3	294.0
42.5°	995.8	891.3	779.4	670.2	568.4	476.0	398.5	339.8	306.8	302.1
45°	1045.0	933.1	815.1	699.8	592.6	495.6	412.6	350.6	315.5	310.1
47.5°	1085.5	968.9	844.1	724.1	612.9	512.4	424.8	358.0	320.9	315.5
50°	1123.9	1000.6	871.1	746.4	631.1	527.2	434.9	364.1	324.3	318.9
52.5°	1153.6	1026.8	892.7	763.9	645.9	538.0	443.0	368.1	326.3	320.3
55°	1178.5	1048.4	910.2	777.4	657.4	547.5	449.0	370.1	326.3	320.3
57.5°	1199.4	1065.3	924.4	789.5	666.1	553.5	453.1	370.8	324.3	318.2
60°	1217.7	1080.8	935.8	799.0	674.2	559.6	455.8	370.8	322.3	315.5
62.5°	1232.5	1091.6	944.6	806.4	680.3	564.3	457.1	369.5	318.2	311.5
65°	1241.2	1099.0	950.0	810.4	683.7	565.7	457.1	367.5	314.2	307.4
67.5°	*1248.7*	*1103.7*	*953.4*	*812.4*	*685.7*	*567.0*	*456.5*	*364.1*	*310.1*	*303.4*
70°	1252.0	1105.7	954.7	813.8	687.0	566.3	454.4	361.4	306.1	298.0
72.5°	1252.7	1106.4	954.0	813.8	687.0	566.3	452.4	357.3	301.4	294.0
75°	1251.4	1104.4	952.0	813.1	686.4	564.3	450.4	354.0	297.3	289.2
77.5°	1247.3	1100.3	948.6	810.4	683.0	562.3	446.3	349.9	292.6	285.2
80°	1240.6	1093.6	943.2	805.7	678.9	558.3	443.0	345.9	288.6	281.2
82.5°	1230.5	1084.8	936.5	799.6	674.9	553.5	438.9	341.8	284.5	277.1
85°	1218.3	1074.0	926.4	792.2	668.8	548.1	433.5	337.1	280.5	273.1
87.5°	1201.5	1060.6	915.6	783.5	660.7	541.4	427.5	333.1	277.1	269.7
90°	1185.3	1045.7	904.1	774.0	653.3	535.3	422.1	328.3	274.4	267.0
92.5°	1166.4	1028.2	890.0	763.2	643.2	527.2	416.7	324.3	271.7	265.0
95°	1144.8	1009.3	875.1	750.4	633.8	519.2	409.9	320.3	269.0	262.9
97.5°	1120.6	989.1	859.0	736.9	622.3	510.4	403.9	316.9	267.7	260.9
100°	1095.6	966.2	841.4	723.4	610.8	500.9	397.8	313.5	267.0	260.9
102.5°	1067.3	945.3	823.9	710.0	599.4	492.2	391.7	311.5	267.0	260.9
105°	1040.3	921.0	805.0	695.1	587.9	483.4	386.3	310.1	267.7	262.3
107.5°	1011.3	898.1	786.1	679.6	575.1	474.7	381.6	308.8	269.0	263.6
110°	984.4	875.8	768.6	664.8	563.7	466.6	376.9	308.1	270.4	265.6

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

Scaled Data Report

REPORT NUMBER: P1223989
CATALOG NUMBER: FFX-CLB-70-730-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	954.7	851.5	749.1	648.6	551.5	457.1	372.2	306.8	271.7	267.7
115°	923.7	825.9	729.5	632.4	537.4	448.4	367.5	306.1	273.1	269.0
117.5°	890.0	798.3	705.9	613.5	522.5	437.6	360.7	303.4	273.1	269.0
120°	853.6	769.3	680.3	593.3	505.7	424.8	354.0	300.0	271.7	268.3
122.5°	813.8	734.9	650.6	567.7	486.8	409.9	343.9	294.0	268.3	265.0
125°	770.0	696.5	620.3	540.1	463.2	393.1	331.7	287.2	262.9	260.3
127.5°	724.1	656.7	583.9	511.1	440.9	374.9	318.9	277.1	255.5	252.8
130°	672.9	612.2	546.1	478.7	414.6	354.0	303.4	265.6	246.1	243.4
132.5°	623.7	568.4	509.0	449.0	387.0	333.7	286.5	252.8	236.0	233.3
135°	572.4	523.9	470.6	414.0	361.4	311.5	269.7	240.0	224.5	222.5
137.5°	522.5	481.4	431.5	381.6	335.1	289.9	253.5	227.9	213.7	212.4
140°	476.0	437.6	395.8	351.9	308.8	269.7	238.0	214.4	202.9	200.9
142.5°	430.8	397.8	360.0	323.0	283.2	250.1	222.5	201.6	192.2	190.8
145°	388.4	360.7	327.7	294.0	260.3	231.3	207.7	190.1	182.0	181.4
147.5°	348.6	325.7	296.7	268.3	240.0	215.8	194.2	180.7	173.3	172.6
150°	312.2	291.3	268.3	244.1	220.5	198.9	182.7	170.6	164.5	163.8
152.5°	277.8	261.6	242.7	223.2	202.9	186.1	171.3	162.5	157.8	157.1
155°	248.1	235.3	219.8	202.9	187.4	174.0	162.5	155.7	151.7	151.7
157.5°	223.2	212.4	200.9	187.4	174.6	163.8	155.7	149.7	146.3	146.3
160°	201.6	192.2	183.4	173.3	164.5	155.7	149.7	145.0	142.3	142.3
162.5°	183.4	176.6	169.9	162.5	155.1	149.7	144.3	140.9	139.6	138.9
165°	168.6	164.5	159.1	153.7	149.0	144.3	140.9	138.9	137.5	137.5
167.5°	157.1	154.4	150.4	147.0	143.6	140.2	138.2	136.9	136.2	136.2
170°	148.3	146.3	143.6	141.6	139.6	137.5	136.2	135.5	134.8	134.8
172.5°	141.6	139.6	138.2	137.5	136.2	135.5	134.8	134.2	134.2	134.2
175°	136.9	135.5	135.5	134.8	134.2	134.2	133.5	133.5	133.5	134.2
177.5°	133.5	133.5	133.5	133.5	133.5	134.2	134.2	134.2	134.8	134.8
180°	135.5	135.5	135.5	135.5	135.5	135.5	135.5	135.5	135.5	135.5

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

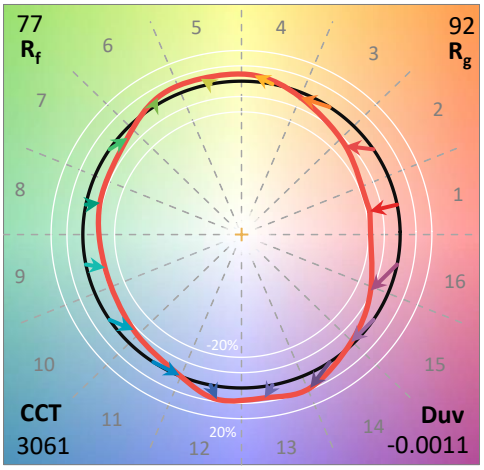
Test Information

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

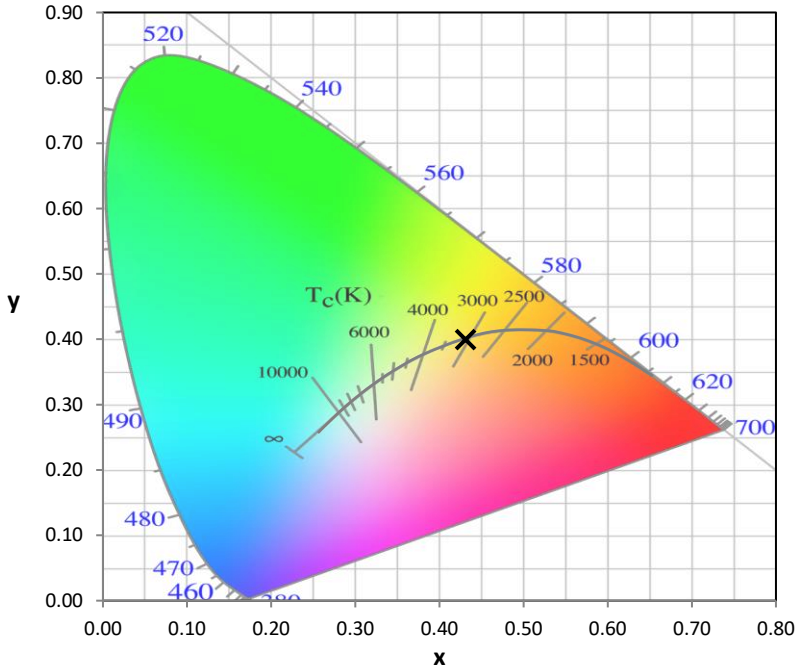
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

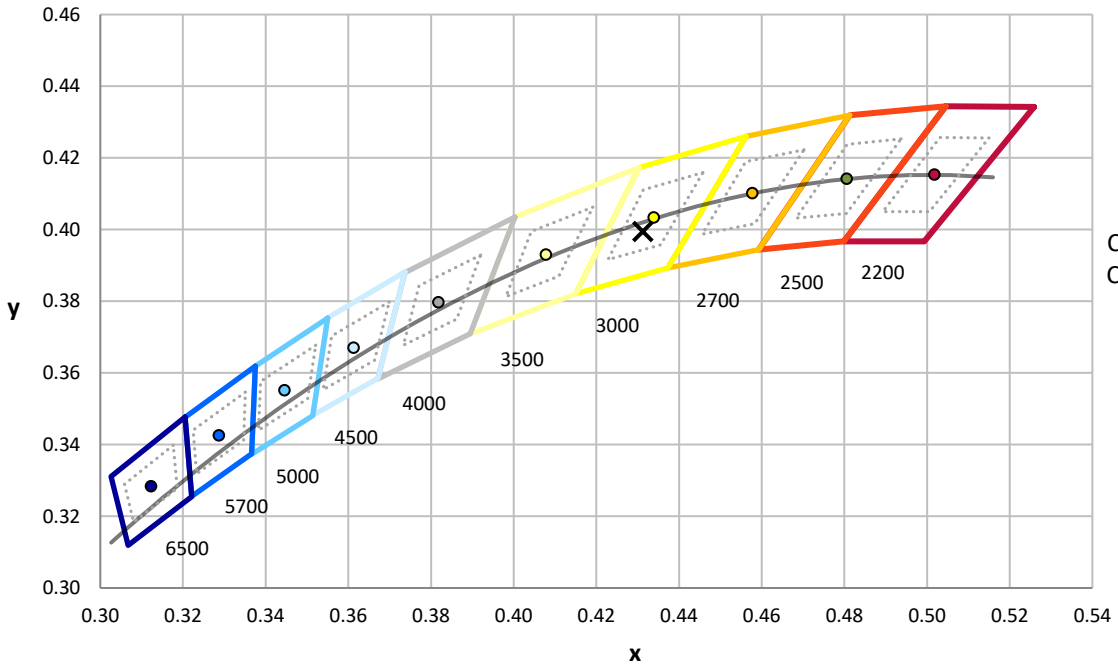
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

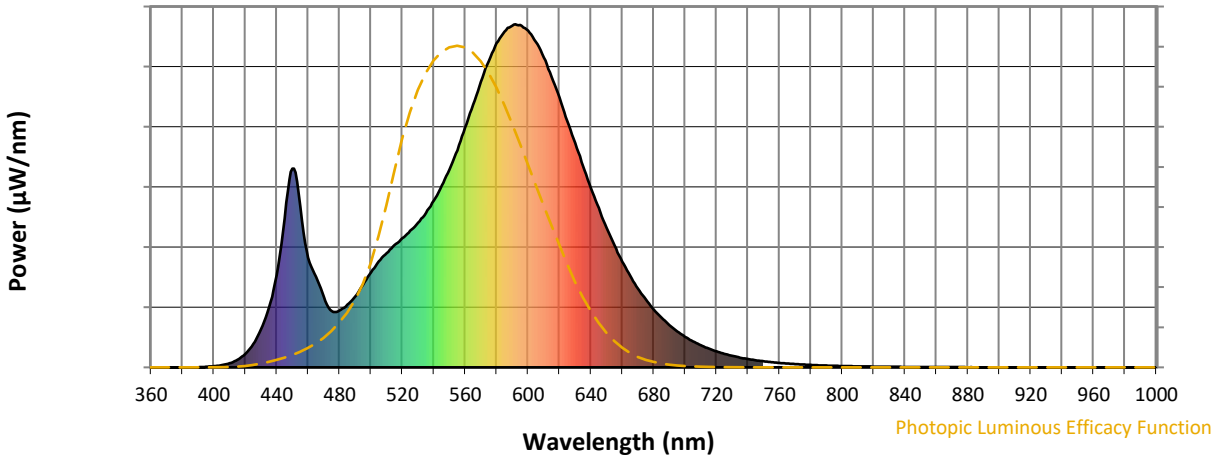


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

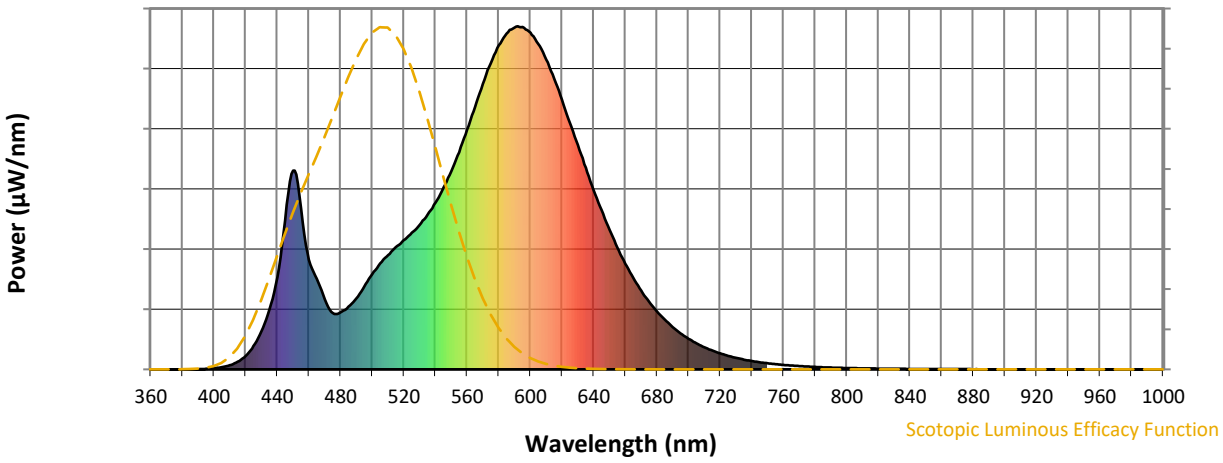


Photopic Lumens: NR

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

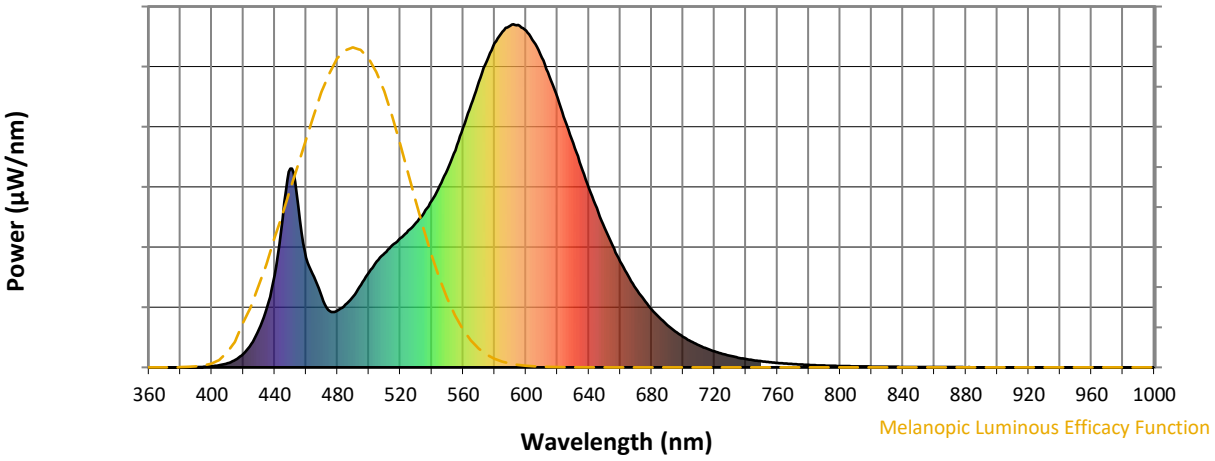


Scotopic Lumens: NR **S/P: 1.29**

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			

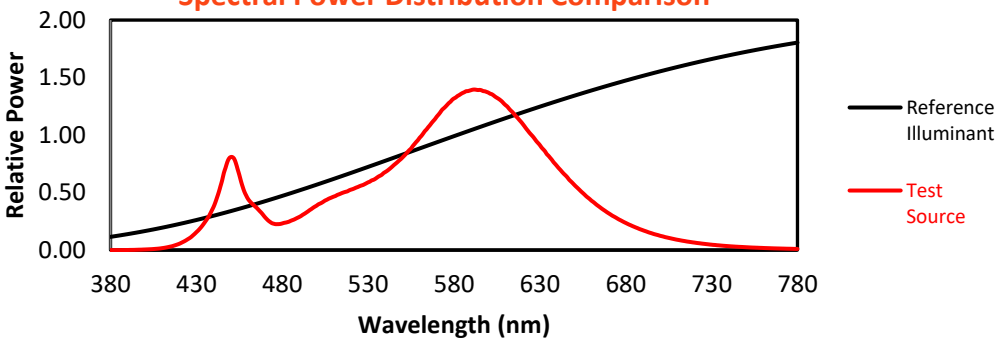
REPORT NUMBER: SP1-2501-332-4

TM-30-18

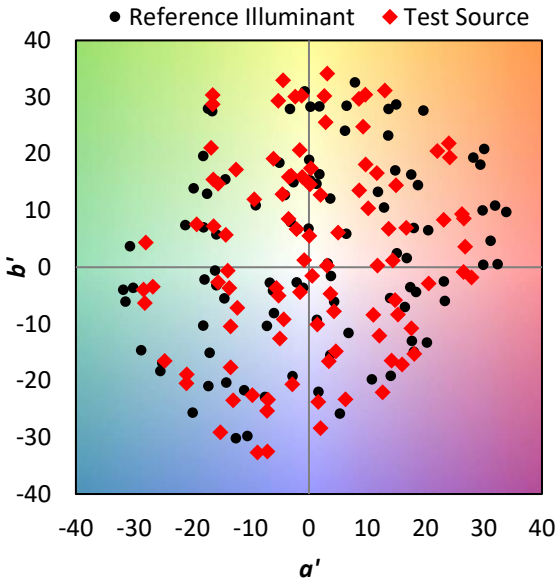
Summary

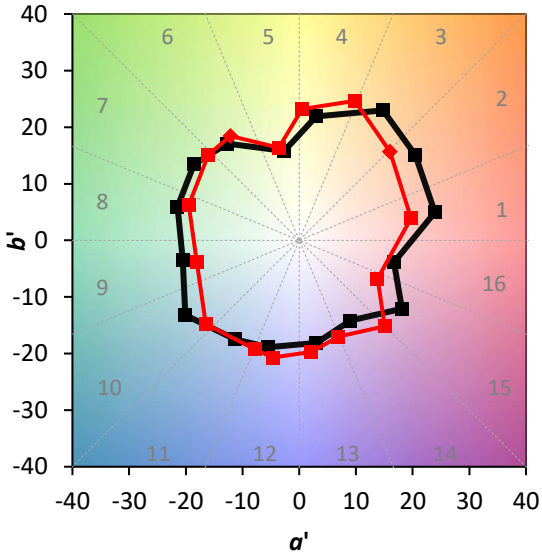
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

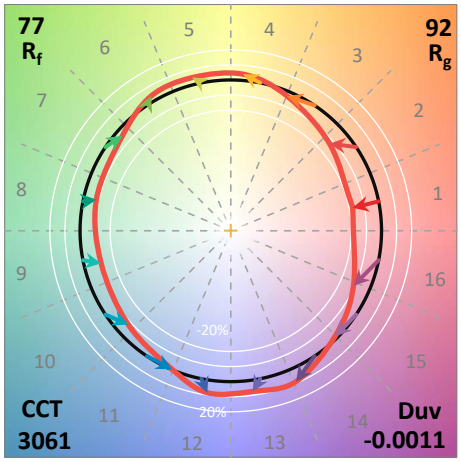
Spectral Power Distribution Comparison

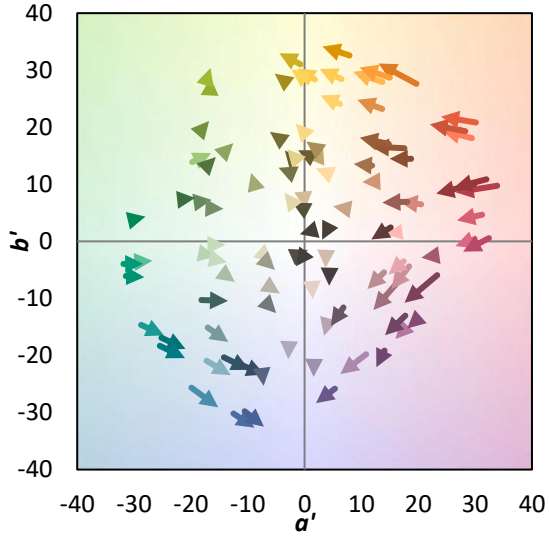


Color Vector Graphics







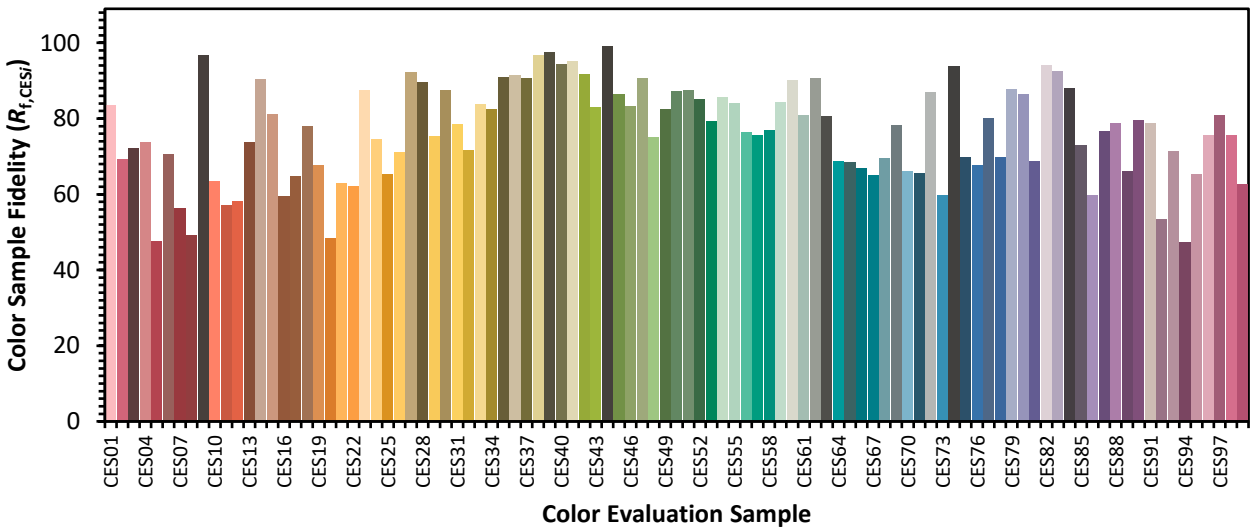


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

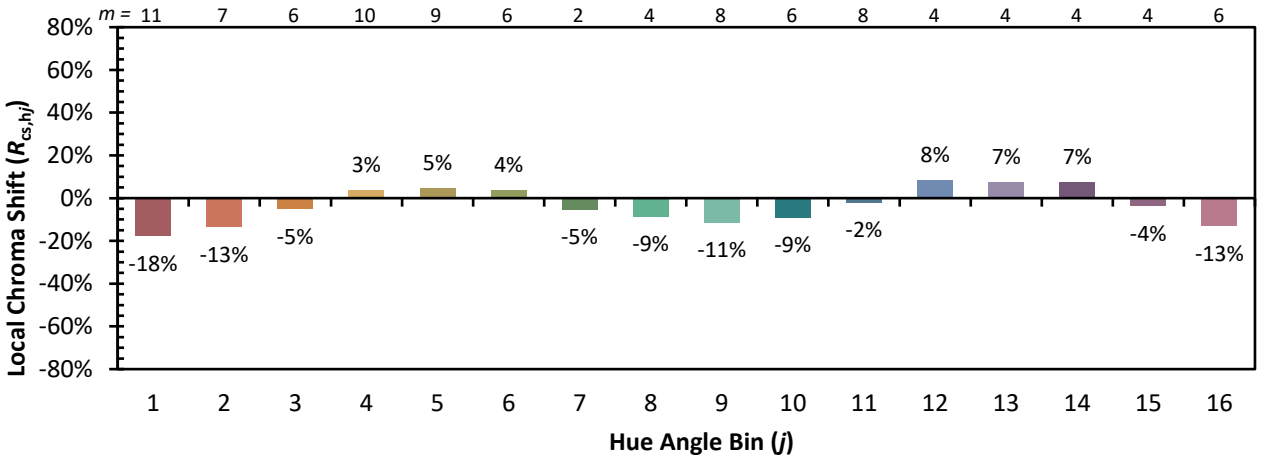
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 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
CES25 = 73	CES50 = 87	CES75 = 70	

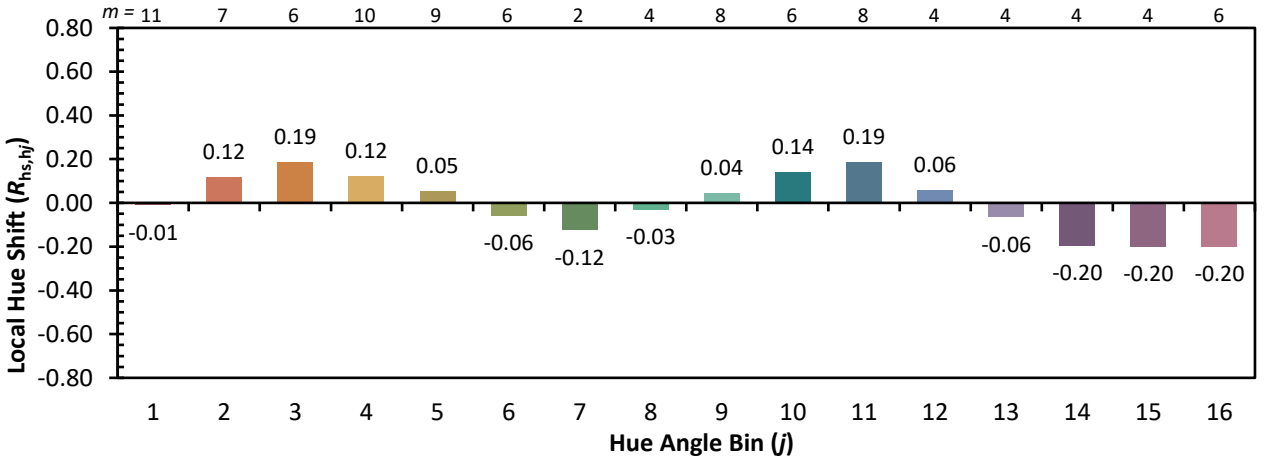


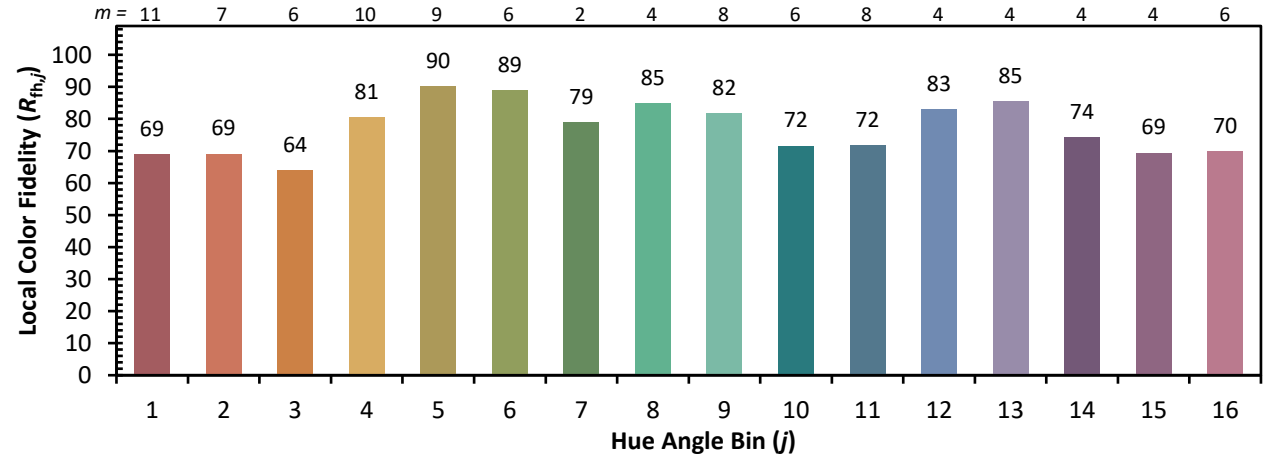
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Color Rendition by Hue-Angle Bin



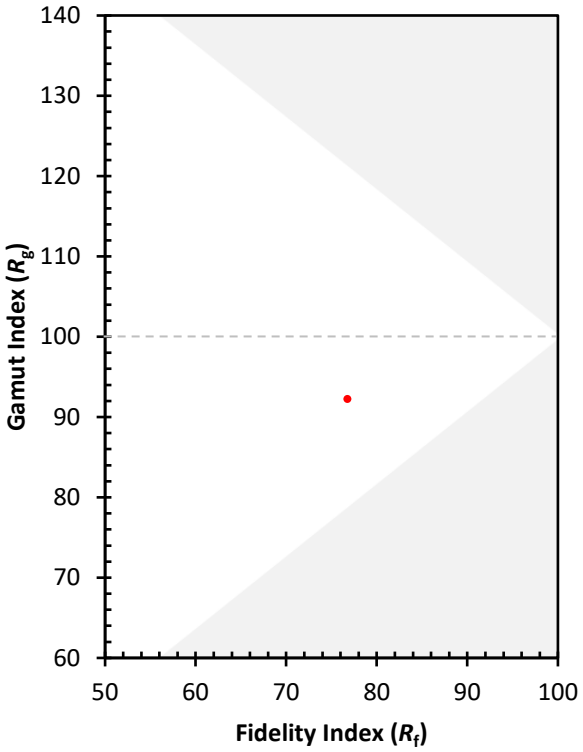


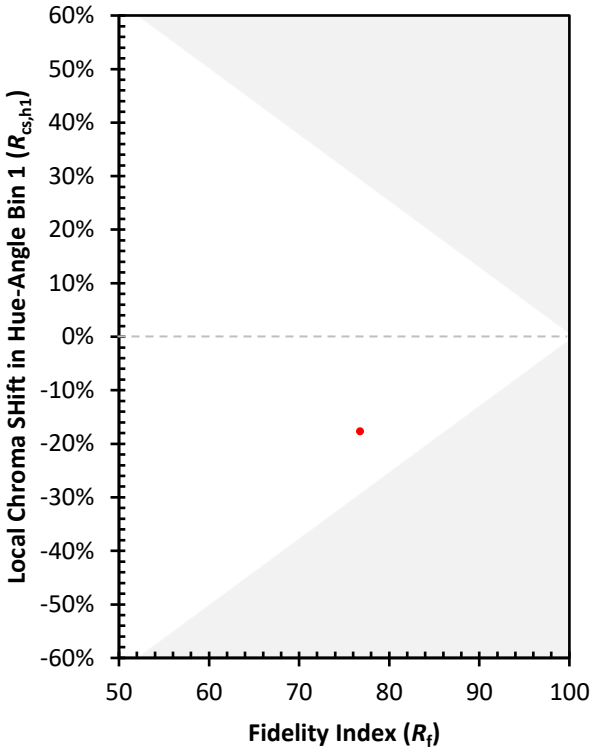


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Measure Comparisons





(END OF REPORT)