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: P1045888

Luminaire Tested: **FFX-CLB-70-730-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045888
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-730-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7519.7 lumens
Efficiency:	N/A
Efficacy:	105.6 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

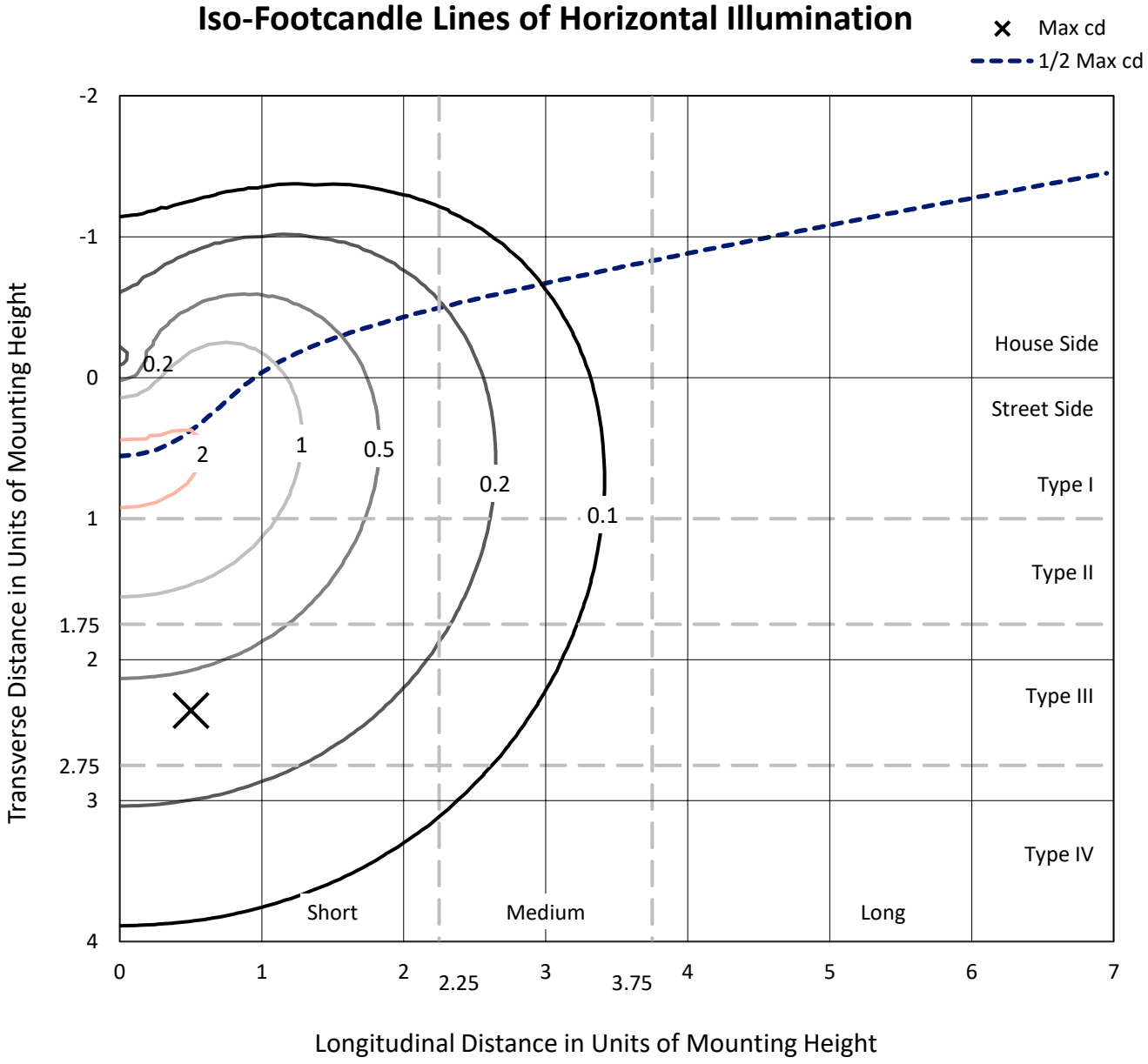


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Iso-Footcandle Lines of Horizontal Illumination



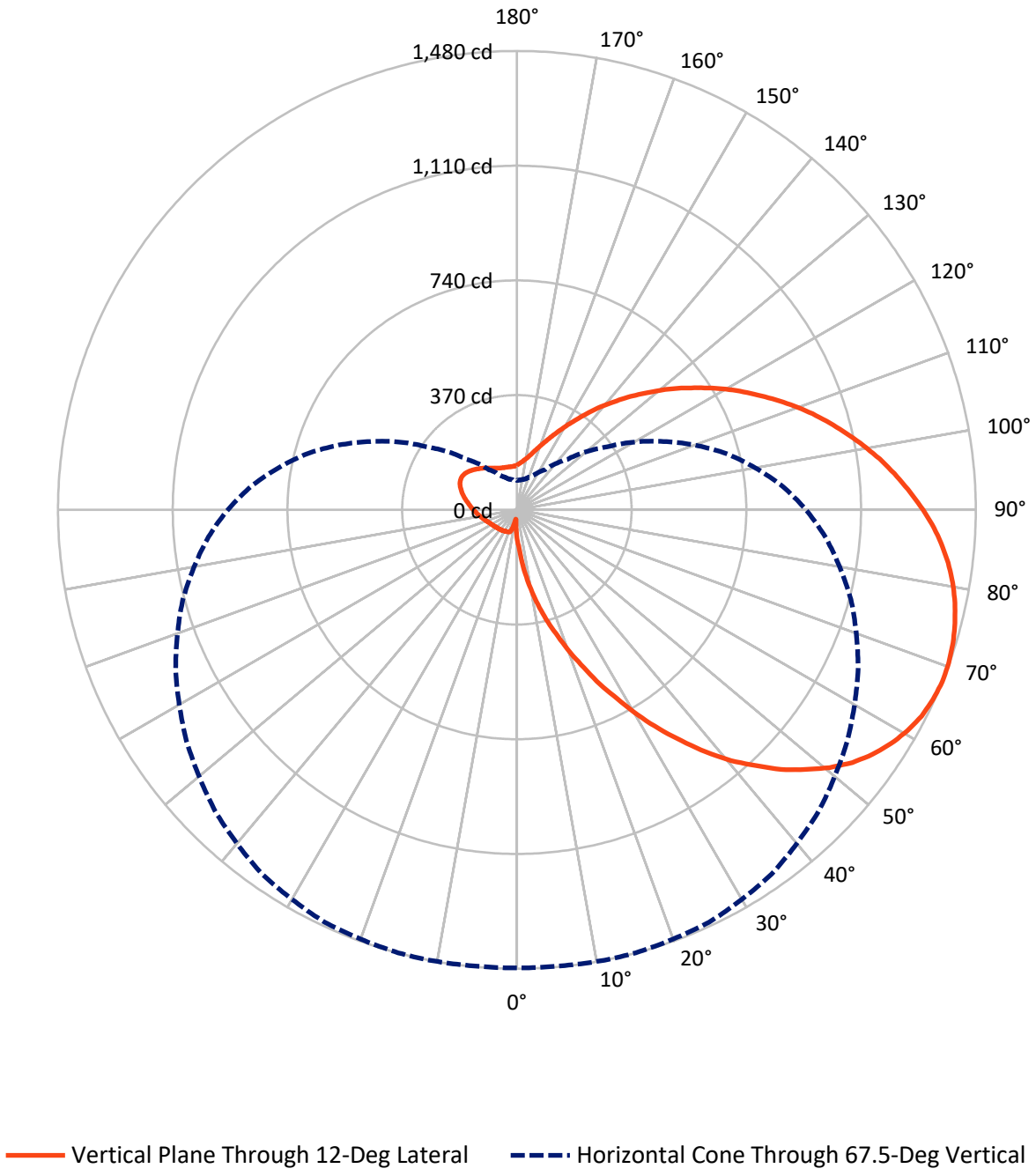
Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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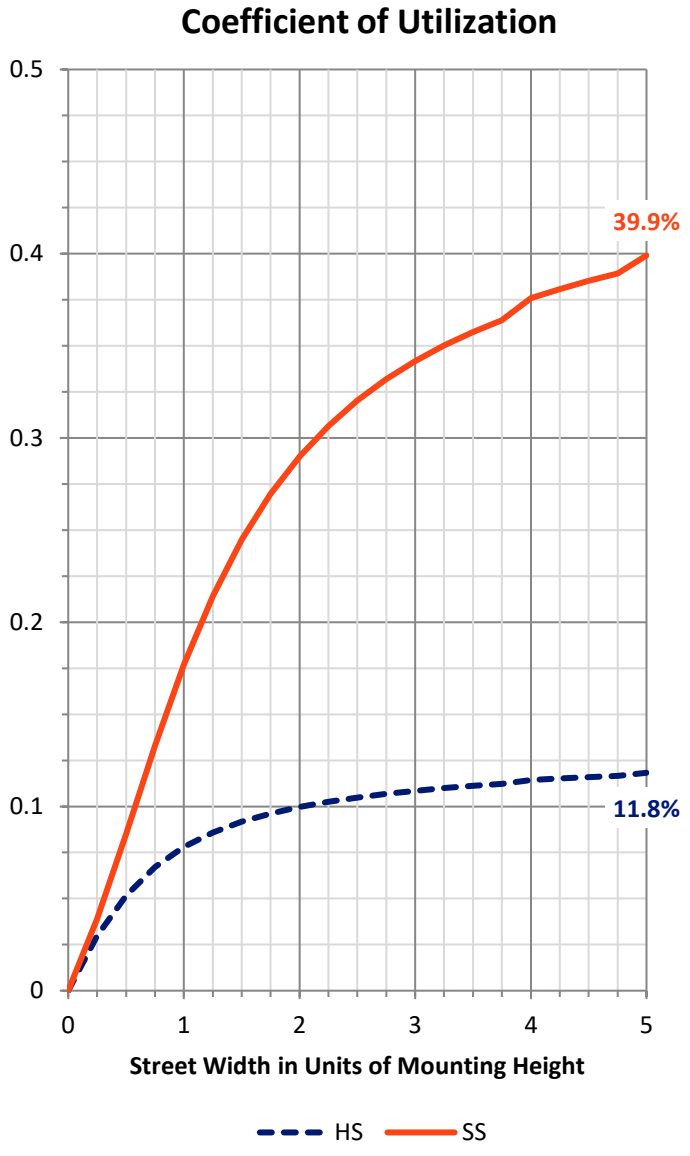
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.7	936.6	1904.3
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	3421.5	2193.9	5615.4
	% Fixture	45.5	29.2	74.7
Total	Lumens	4389.1	3130.6	7519.7
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.2
10°-20°	66.9	0.9
20°-30°	174.5	2.3
30°-40°	338.7	4.5
40°-50°	531.8	7.1
50°-60°	705.9	9.4
60°-70°	822.6	10.9
70°-80°	874.0	11.6
80°-90°	862.9	11.5
90°-100°	795.7	10.6
100°-110°	694.4	9.2
110°-120°	570.9	7.6
120°-130°	432.2	5.7
130°-140°	295.2	3.9
140°-150°	180.9	2.4
150°-160°	99.3	1.3
160°-170°	47.9	0.6
170°-180°	14.2	0.2
0°-90°	4389.1	58.4
0°-180°	7519.7	100.0



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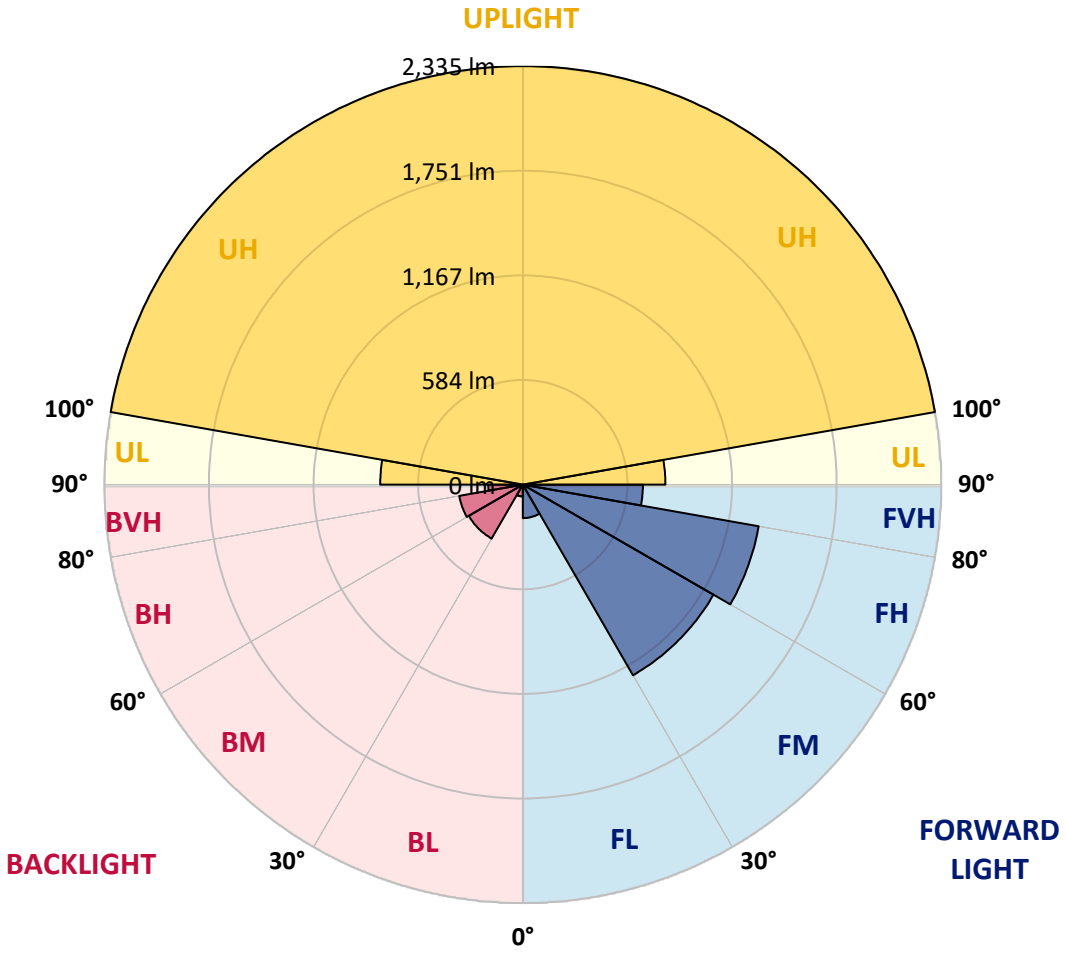
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	186.9	2.5			
FM	(30°-60°)	1228.5	16.3			
FH	(60°-80°)	1336.3	17.8			G1/1800
FVH	(80°-90°)	669.8	8.9			G4/750
BL	(0°-30°)	66.3	0.9	B0/110		
BM	(30°-60°)	347.9	4.6	B1/1000		
BH	(60°-80°)	360.4	4.8	B1/500		G1/500
BVH	(80°-90°)	193.2	2.6			G2/225
UL	(90°-100°)	795.7	10.6		U4/1000	
UH	(100°-180°)	2334.9	31.1		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	95.1	95.1	*95.1*	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
2.5°	119.1	121.6	*119.1*	122.4	120.8	120.8	116.6	112.5	106.7	100.1	94.3
5°	168.8	167.9	*164.6*	167.9	164.6	160.5	153.9	143.1	132.4	122.4	110.0
7.5°	220.0	220.9	*218.4*	217.6	210.1	204.3	193.6	182.8	169.6	154.7	139.8
10°	275.5	273.8	*269.7*	270.5	262.2	250.7	238.2	225.8	210.9	193.6	174.5
12.5°	326.8	326.8	*323.5*	324.3	315.2	301.9	292.0	275.5	257.3	236.6	213.4
15°	381.4	378.0	*376.4*	376.4	367.3	355.7	345.0	326.8	305.3	282.1	255.6
17.5°	431.8	431.0	*429.3*	430.2	421.9	412.0	394.6	376.4	350.8	322.6	295.3
20°	496.3	493.0	*490.6*	486.4	481.5	468.2	451.7	427.7	402.0	371.4	335.0
22.5°	555.1	559.2	*552.6*	549.3	542.7	531.9	507.9	484.8	454.2	418.6	378.9
25°	622.9	626.2	*623.7*	619.6	610.5	595.6	573.3	547.6	511.2	470.7	423.5
27.5°	694.1	696.5	*689.9*	691.6	675.9	661.8	639.5	608.0	573.3	525.3	475.7
30°	764.4	769.3	*766.9*	761.1	747.8	735.4	708.9	675.9	636.1	583.2	526.1
32.5°	847.1	841.3	*842.1*	835.5	827.2	807.4	784.2	747.0	700.7	644.4	579.1
35°	924.0	921.5	*914.9*	918.2	904.2	886.0	857.0	817.3	766.9	704.8	632.8
37.5°	992.7	995.2	*991.0*	988.6	979.5	958.8	924.9	884.3	826.4	761.1	682.5
40°	1063.0	1064.7	*1063.8*	1063.8	1051.4	1028.3	993.5	948.0	888.5	818.1	732.9
42.5°	1130.0	1131.7	*1127.5*	1128.4	1118.4	1094.4	1057.2	1009.2	943.1	869.4	776.8
45°	1194.5	1194.5	*1194.5*	1193.7	1179.6	1157.3	1119.3	1064.7	998.5	914.9	817.3
47.5°	1254.1	1252.4	*1251.6*	1251.6	1242.5	1216.0	1175.5	1116.0	1044.0	956.3	857.0
50°	1307.0	1307.9	*1307.0*	1305.4	1291.3	1269.8	1224.3	1162.3	1086.2	996.0	890.1
52.5°	1352.5	1353.4	*1354.2*	1350.1	1341.0	1315.3	1264.9	1198.7	1121.7	1027.4	917.4
55°	1388.9	1390.6	*1392.2*	1390.6	1381.5	1350.9	1300.4	1233.4	1150.7	1053.9	941.4
57.5°	1422.9	1422.0	*1422.9*	1421.2	1411.3	1381.5	1329.4	1257.4	1173.9	1075.4	959.6
60°	1446.0	1446.8	*1446.8*	1446.8	1435.3	1404.7	1349.2	1275.6	1190.4	1092.0	975.3
62.5°	1461.7	1462.6	*1465.0*	1463.4	1452.6	1420.4	1363.3	1288.8	1202.8	1102.7	986.1
65°	1472.5	1473.3	*1475.0*	1473.3	1463.4	1430.3	1372.4	1297.1	1211.1	1111.0	993.5
67.5°	*1477.5*	*1477.5*	*1479.9*	*1479.1*	*1467.5*	*1433.6*	*1375.7*	*1300.4*	*1214.4*	*1115.1*	*998.5*
70°	1475.0	1475.8	*1477.5*	1476.6	1465.0	1431.1	1373.2	1298.8	1213.6	1115.1	999.3
72.5°	1469.2	1469.2	*1470.8*	1469.2	1458.4	1424.5	1367.4	1293.8	1209.4	1113.5	998.5
75°	1457.6	1458.4	*1459.3*	1458.4	1446.8	1413.8	1357.5	1284.7	1202.8	1107.7	995.2
77.5°	1443.5	1444.4	*1444.4*	1444.4	1432.0	1398.9	1344.3	1273.1	1193.7	1101.1	989.4
80°	1422.9	1423.7	*1425.3*	1423.7	1411.3	1381.5	1326.9	1259.1	1182.1	1090.3	981.9
82.5°	1399.7	1398.9	*1401.3*	1400.5	1388.1	1358.3	1304.6	1240.0	1164.8	1077.9	971.2
85°	1370.7	1370.7	*1372.4*	1370.7	1360.0	1328.6	1278.1	1216.9	1144.9	1059.7	957.9
87.5°	1338.5	1338.5	*1340.1*	1336.8	1324.4	1297.1	1249.1	1189.6	1123.4	1041.5	943.1
90°	1300.4	1302.1	*1302.1*	1299.6	1287.2	1260.7	1216.9	1159.8	1095.3	1019.2	925.7
92.5°	1264.0	1264.0	*1262.4*	1262.4	1249.1	1222.7	1182.1	1130.0	1069.6	996.8	906.7
95°	1225.1	1225.1	*1222.7*	1221.0	1207.8	1185.4	1146.6	1098.6	1040.7	973.7	887.6
97.5°	1183.8	1183.0	*1181.3*	1179.6	1166.4	1144.9	1110.2	1063.8	1010.9	947.2	867.0
100°	1141.6	1142.4	*1136.6*	1135.8	1122.6	1104.4	1071.3	1028.3	979.5	919.9	844.6
102.5°	1095.3	1096.9	*1092.0*	1091.1	1077.9	1058.0	1031.6	992.7	948.8	894.2	822.3
105°	1053.9	1049.8	*1047.3*	1045.6	1034.1	1015.9	987.7	957.1	915.8	864.5	797.5
107.5°	1006.8	1007.6	*1002.6*	999.3	987.7	972.8	948.0	919.9	883.5	834.7	773.5
110°	959.6	957.9	*955.5*	953.8	940.6	927.3	905.8	882.7	847.1	804.9	747.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	910.8	911.6	*907.5*	905.0	895.9	881.8	866.1	843.8	813.2	773.5	719.7
115°	865.3	863.6	*860.3*	858.7	848.8	838.0	822.3	805.7	778.4	740.4	691.6
117.5°	819.0	815.7	*814.8*	812.4	804.9	794.2	781.7	767.7	741.2	708.1	661.8
120°	771.0	771.0	*769.3*	767.7	757.8	748.7	741.2	726.3	704.0	672.5	632.8
122.5°	726.3	725.5	*722.2*	719.7	714.7	706.5	697.4	685.8	665.9	637.8	599.8
125°	677.5	679.2	*676.7*	675.9	667.6	663.4	655.2	647.7	627.0	601.4	567.5
127.5°	637.0	634.5	*634.5*	630.4	626.2	622.1	615.5	605.5	591.5	565.0	533.6
130°	594.0	592.3	*589.8*	589.8	584.9	579.1	574.9	566.7	550.9	529.4	499.7
132.5°	550.9	549.3	*547.6*	545.2	541.8	541.0	536.9	527.8	512.9	493.9	468.2
135°	510.4	509.6	*508.8*	508.8	503.8	501.3	496.3	488.9	479.0	461.6	436.8
137.5°	472.4	469.9	*468.2*	468.2	466.6	462.4	458.3	452.5	441.7	427.7	405.3
140°	432.6	434.3	*434.3*	433.5	430.2	427.7	422.7	417.8	407.0	395.4	376.4
142.5°	399.6	398.7	*397.1*	396.2	394.6	391.3	388.8	383.0	376.4	364.0	347.4
145°	364.0	364.0	*363.2*	364.0	360.7	359.9	356.5	351.6	344.1	333.4	319.3
147.5°	332.6	332.6	*331.7*	332.6	330.1	327.6	325.1	321.8	315.2	306.9	294.5
150°	303.6	304.4	*302.8*	302.8	301.9	299.5	297.8	292.8	287.9	281.3	270.5
152.5°	277.1	278.0	*277.1*	276.3	275.5	273.8	271.3	268.0	263.1	257.3	248.2
155°	254.8	254.0	*254.0*	254.0	253.1	250.7	250.7	245.7	240.7	236.6	227.5
157.5°	233.3	233.3	*233.3*	233.3	231.6	230.8	229.1	225.0	222.5	216.7	210.1
160°	215.9	215.1	*215.1*	215.1	213.4	212.6	210.1	208.5	205.2	200.2	195.2
162.5°	198.5	199.4	*199.4*	199.4	197.7	196.9	195.2	193.6	191.1	186.1	182.8
165°	185.3	185.3	*185.3*	184.5	183.6	183.6	181.2	180.3	177.9	174.5	172.1
167.5°	174.5	174.5	*173.7*	174.5	172.9	171.2	170.4	168.8	167.1	165.4	163.0
170°	165.4	165.4	*165.4*	165.4	164.6	163.8	162.1	161.3	159.7	158.0	155.5
172.5°	158.0	158.0	*158.0*	158.0	157.2	156.3	154.7	153.9	153.0	151.4	149.7
175°	152.2	152.2	*152.2*	152.2	151.4	150.6	148.9	148.9	148.1	147.2	145.6
177.5°	148.1	148.1	*147.2*	147.2	146.4	145.6	145.6	144.8	144.8	143.9	143.1
180°	143.1	143.1	*143.1*	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
2.5°	91.0	87.7	81.9	76.9	71.1	67.0	62.9	62.0	62.0	63.7	63.7
5°	105.1	97.6	86.0	75.3	62.9	53.8	45.5	38.1	33.1	30.6	30.6
7.5°	131.5	125.7	108.4	93.5	78.6	64.5	51.3	39.7	31.4	25.6	24.8
10°	165.4	156.3	135.7	116.6	96.8	79.4	63.7	49.6	39.7	34.7	34.7
12.5°	201.8	189.4	164.6	141.5	118.3	96.0	77.8	63.7	53.8	48.8	47.2
15°	240.7	226.7	196.9	167.1	139.0	115.0	94.3	76.9	67.0	62.0	61.2
17.5°	277.1	261.4	227.5	191.9	159.7	130.7	105.9	87.7	75.3	69.5	68.7
20°	316.8	296.2	256.4	215.1	177.0	142.3	114.2	92.7	77.8	71.1	70.3
22.5°	357.4	333.4	286.2	238.2	192.7	153.0	120.0	95.1	78.6	71.1	70.3
25°	400.4	373.9	318.5	263.1	210.1	163.8	125.7	97.6	80.2	71.1	70.3
27.5°	445.9	416.1	352.4	289.5	227.5	174.5	131.5	100.9	81.1	72.0	70.3
30°	494.7	460.8	387.1	315.2	244.0	184.5	136.5	102.6	81.9	72.0	71.1
32.5°	543.5	502.1	425.2	340.0	261.4	193.6	141.5	105.1	82.7	72.8	72.0
35°	590.7	550.1	459.9	365.6	278.0	202.7	145.6	106.7	84.4	73.6	72.0
37.5°	638.6	594.8	493.0	389.6	292.8	210.1	148.9	108.4	85.2	74.5	72.8
40°	684.1	632.8	525.3	412.8	305.3	216.7	151.4	109.2	86.0	75.3	73.6
42.5°	727.1	672.5	555.9	432.6	317.7	221.7	153.9	110.9	86.9	76.1	75.3
45°	763.5	707.3	582.4	452.5	326.8	225.8	155.5	111.7	87.7	76.9	76.1
47.5°	799.1	738.7	607.2	468.2	335.9	230.0	156.3	112.5	88.5	78.6	77.8
50°	830.6	766.9	629.5	482.3	342.5	231.6	157.2	113.3	90.2	80.2	79.4
52.5°	857.0	790.8	646.9	493.9	347.4	233.3	157.2	113.3	91.0	81.9	81.1
55°	878.5	811.5	662.6	502.1	350.8	234.1	157.2	114.2	92.7	83.6	82.7
57.5°	896.7	827.2	675.0	509.6	354.1	234.1	157.2	115.0	94.3	85.2	84.4
60°	910.0	840.5	684.1	514.5	354.9	233.3	157.2	115.8	96.0	87.7	86.9
62.5°	920.7	849.6	691.6	517.9	354.9	231.6	157.2	116.6	97.6	90.2	89.3
65°	928.2	856.2	696.5	519.5	354.1	230.8	157.2	118.3	100.1	92.7	91.8
67.5°	*932.3*	*861.2*	*699.8*	*521.2*	*353.2*	*230.8*	*158.0*	*120.8*	*102.6*	*96.0*	*95.1*
70°	934.0	862.0	700.7	520.3	352.4	229.1	158.8	122.4	105.9	99.3	98.4
72.5°	934.0	862.8	700.7	520.3	350.8	230.0	159.7	124.9	109.2	102.6	101.8
75°	931.5	860.3	699.8	518.7	349.9	229.1	162.1	128.2	112.5	106.7	105.9
77.5°	926.5	857.0	697.4	516.2	349.1	230.0	163.8	131.5	116.6	110.9	110.9
80°	920.7	852.1	694.1	513.7	348.3	231.6	166.3	135.7	120.8	115.8	115.0
82.5°	911.6	844.6	688.3	510.4	346.6	232.5	169.6	139.8	125.7	120.0	120.0
85°	899.2	833.9	680.8	506.3	345.0	234.1	172.9	143.1	130.7	124.9	124.9
87.5°	886.0	822.3	671.7	501.3	344.1	235.8	177.0	148.1	134.8	129.9	129.0
90°	870.3	808.2	662.6	495.5	343.3	238.2	180.3	153.0	140.6	135.7	134.8
92.5°	853.7	794.2	652.7	491.4	342.5	240.7	185.3	158.8	146.4	141.5	140.6
95°	837.2	779.3	642.8	485.6	342.5	244.0	190.3	164.6	152.2	147.2	146.4
97.5°	818.1	762.7	631.2	480.6	342.5	248.2	196.1	170.4	158.0	153.0	153.0
100°	798.3	746.2	619.6	475.7	343.3	252.3	201.8	177.0	164.6	159.7	159.7
102.5°	778.4	728.0	608.9	471.5	345.0	258.1	209.3	184.5	172.1	167.1	166.3
105°	756.9	709.8	596.4	465.7	346.6	263.1	215.9	191.1	178.7	173.7	173.7
107.5°	735.4	690.7	584.0	461.6	348.3	268.0	223.4	198.5	186.1	180.3	180.3
110°	711.4	670.1	570.8	456.6	349.9	273.8	229.1	205.2	191.9	187.0	186.1

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

Scaled Data Report

REPORT NUMBER: P1045888
CATALOG NUMBER: FFX-CLB-70-730-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	686.6	649.4	556.7	450.0	350.8	278.8	235.8	211.8	198.5	192.7	191.9
115°	660.1	626.2	541.0	443.4	350.8	282.9	240.7	216.7	203.5	197.7	196.9
117.5°	633.7	601.4	523.6	434.3	349.9	285.4	244.9	220.0	206.8	201.0	200.2
120°	605.5	576.6	506.3	425.2	346.6	286.2	246.5	222.5	208.5	202.7	201.8
122.5°	576.6	550.1	485.6	412.8	341.7	285.4	246.5	222.5	208.5	201.8	201.0
125°	545.2	522.0	464.1	397.9	334.2	282.1	244.9	220.9	206.8	200.2	198.5
127.5°	514.5	493.9	441.7	383.0	325.1	277.1	241.6	217.6	203.5	196.9	196.1
130°	484.8	464.1	418.6	366.5	314.4	270.5	235.8	212.6	199.4	191.9	191.1
132.5°	453.3	434.3	395.4	349.1	301.9	262.2	230.0	207.6	193.6	187.8	186.1
135°	421.9	407.0	371.4	330.9	289.5	253.1	223.4	201.8	188.6	182.0	182.0
137.5°	393.8	378.9	347.4	312.7	276.3	242.4	215.1	195.2	182.8	177.0	176.2
140°	364.8	353.2	325.1	294.5	262.2	232.5	208.5	189.4	177.9	172.1	171.2
142.5°	337.5	325.9	303.6	275.5	248.2	221.7	200.2	182.8	172.1	167.1	166.3
145°	310.2	301.9	280.4	258.1	234.1	210.9	191.1	176.2	167.1	162.1	162.1
147.5°	286.2	278.8	259.8	240.7	220.0	201.0	183.6	170.4	162.1	158.0	157.2
150°	263.1	256.4	240.7	225.0	206.0	190.3	175.4	164.6	157.2	153.9	153.0
152.5°	241.6	236.6	223.4	210.1	194.4	180.3	168.8	159.7	153.0	149.7	149.7
155°	223.4	219.2	207.6	196.1	183.6	172.1	162.1	154.7	149.7	147.2	146.4
157.5°	207.6	202.7	193.6	184.5	174.5	164.6	157.2	150.6	147.2	144.8	144.8
160°	192.7	188.6	181.2	174.5	166.3	158.8	152.2	148.1	144.8	143.1	143.1
162.5°	180.3	177.0	171.2	165.4	159.7	153.9	148.9	145.6	143.1	141.5	141.5
165°	169.6	167.9	163.0	158.8	153.9	149.7	146.4	143.9	142.3	141.5	141.5
167.5°	161.3	159.7	156.3	153.0	149.7	146.4	143.9	142.3	141.5	140.6	140.6
170°	154.7	153.0	151.4	148.9	146.4	143.9	142.3	141.5	140.6	140.6	140.6
172.5°	149.7	148.1	147.2	145.6	143.9	142.3	141.5	140.6	140.6	140.6	140.6
175°	145.6	144.8	143.9	143.1	142.3	141.5	140.6	140.6	140.6	140.6	140.6
177.5°	143.1	142.3	142.3	141.5	141.5	140.6	140.6	141.5	141.5	141.5	142.3
180°	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1

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: SP1-2501-332-4

Test Date: 03/21/2025

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

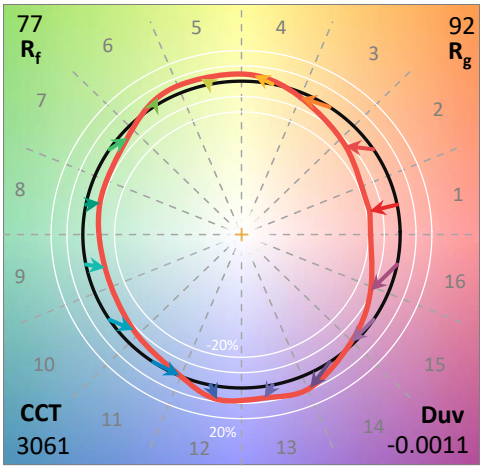
Test Information

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

Spectral Parameters

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

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



Test Conditions

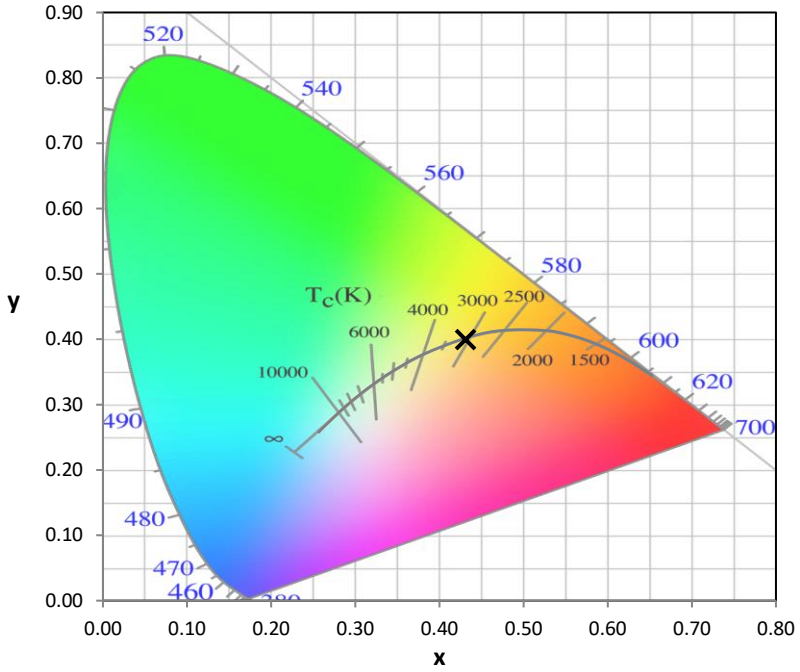
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

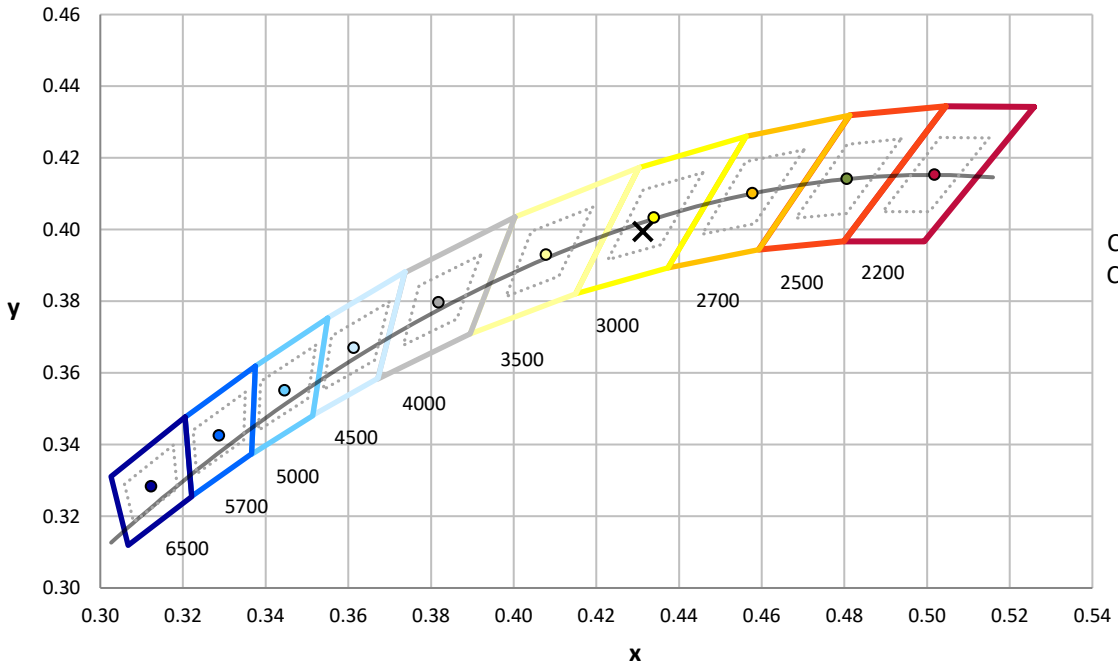
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



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

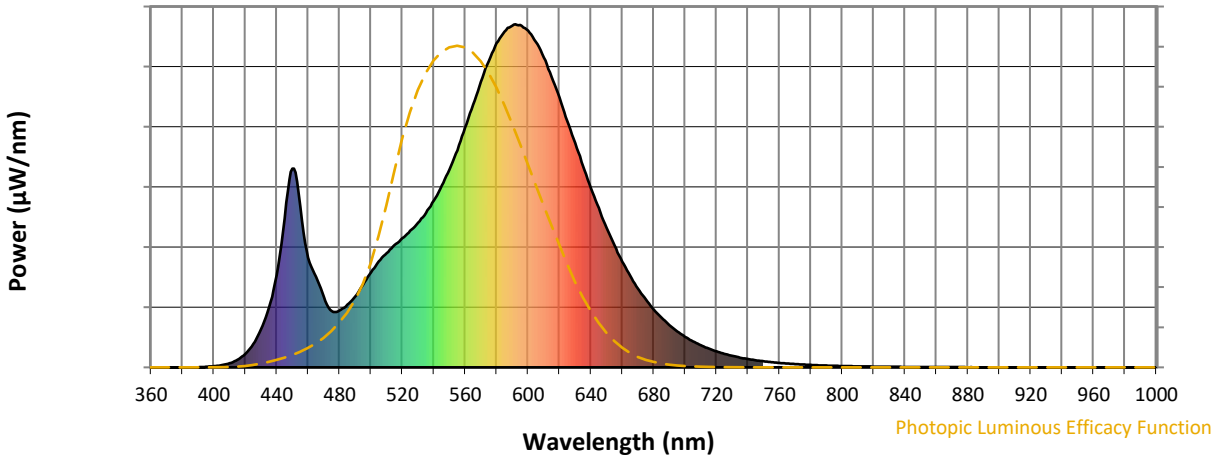


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

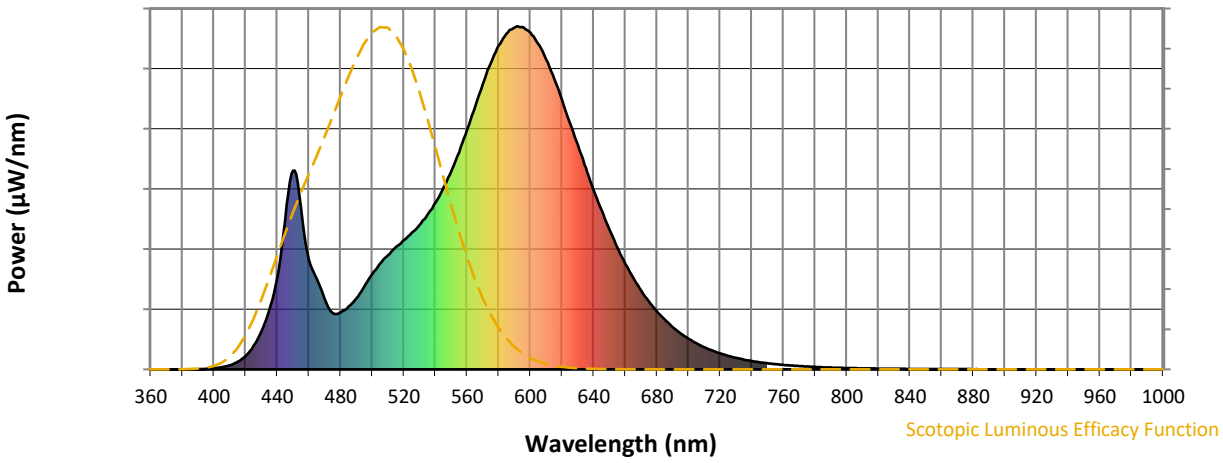


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

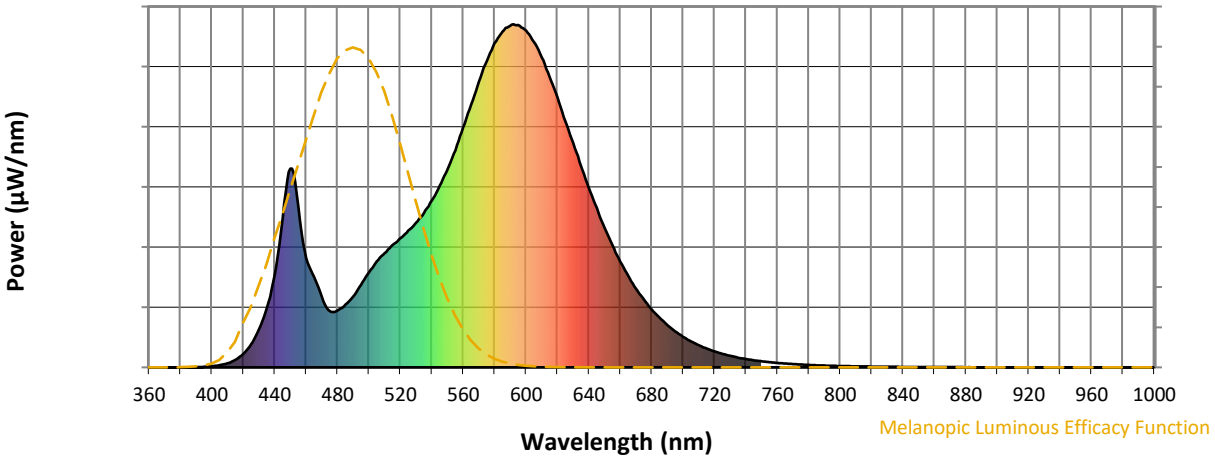


Scotopic Lumens: NR **S/P: 1.29**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



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

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

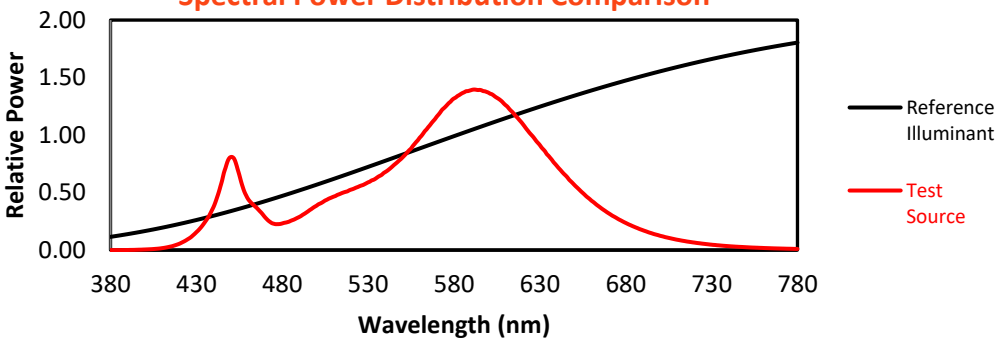
REPORT NUMBER: SP1-2501-332-4

TM-30-18

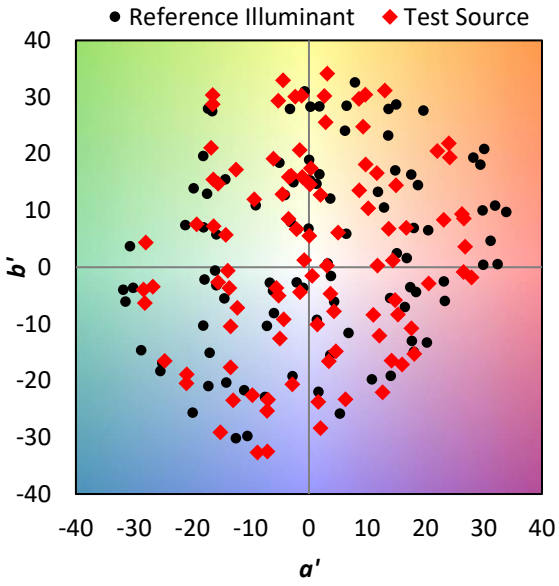
Summary

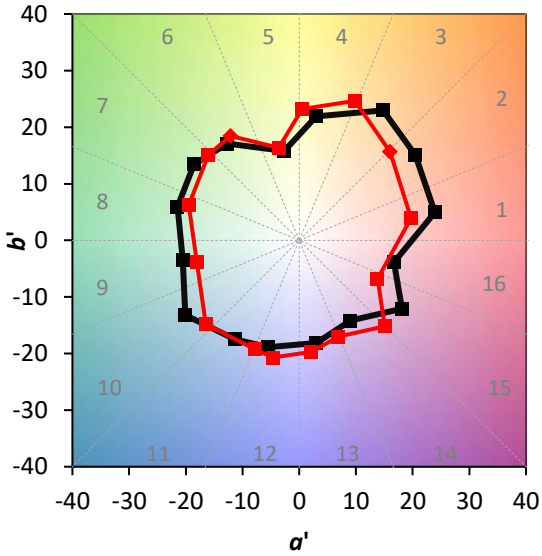
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

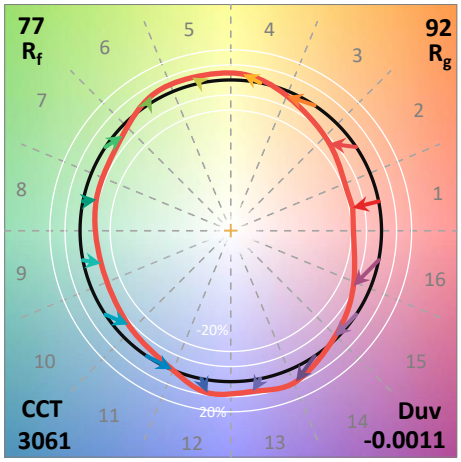
Spectral Power Distribution Comparison

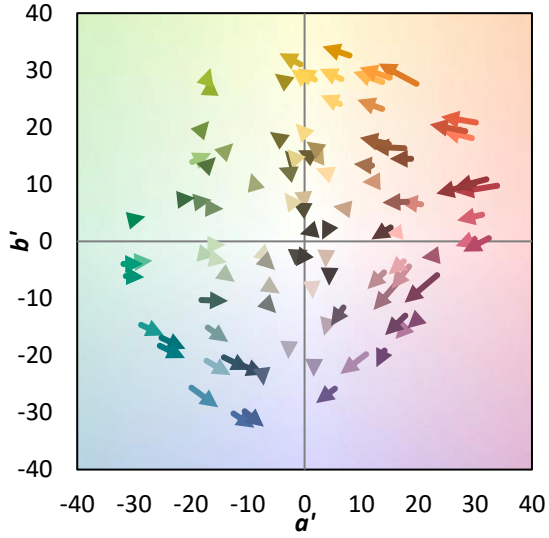


Color Vector Graphics







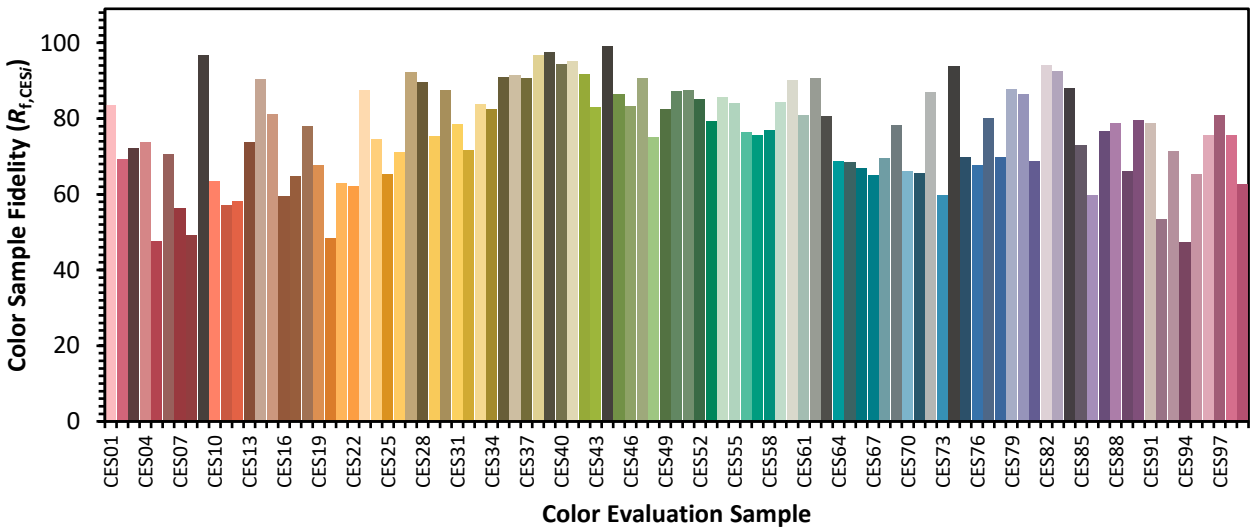


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

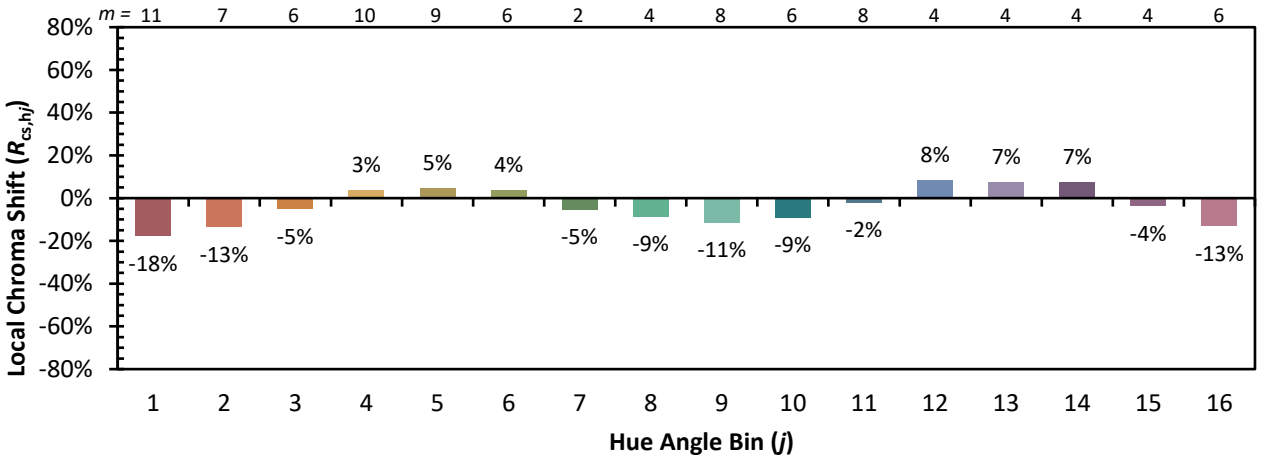
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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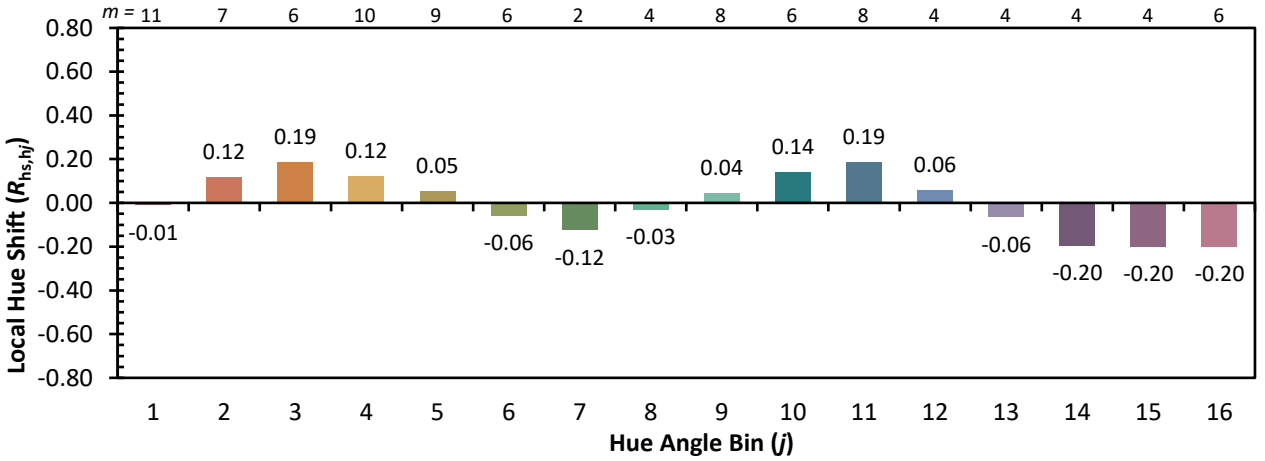


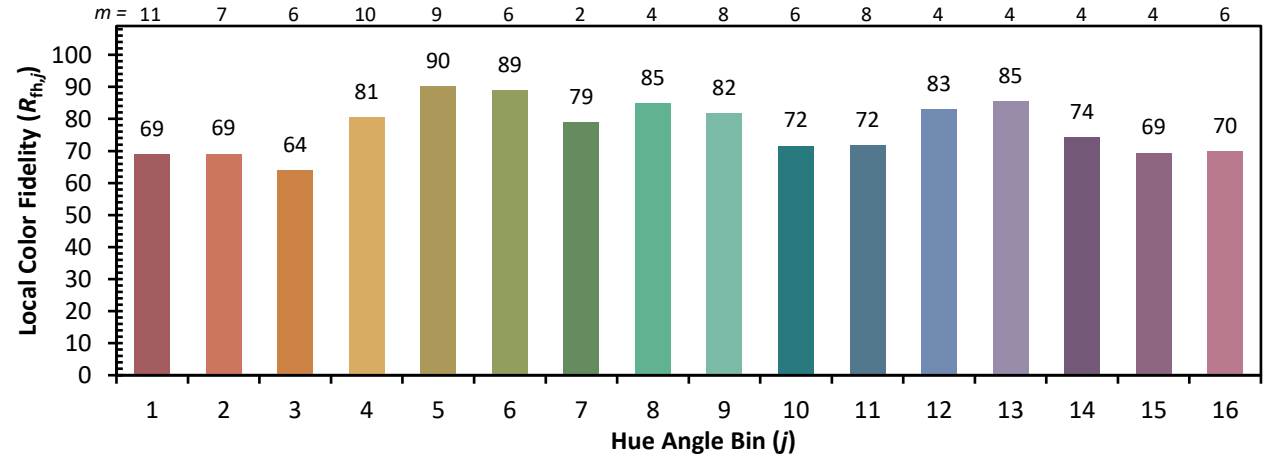
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Color Rendition by Hue-Angle Bin



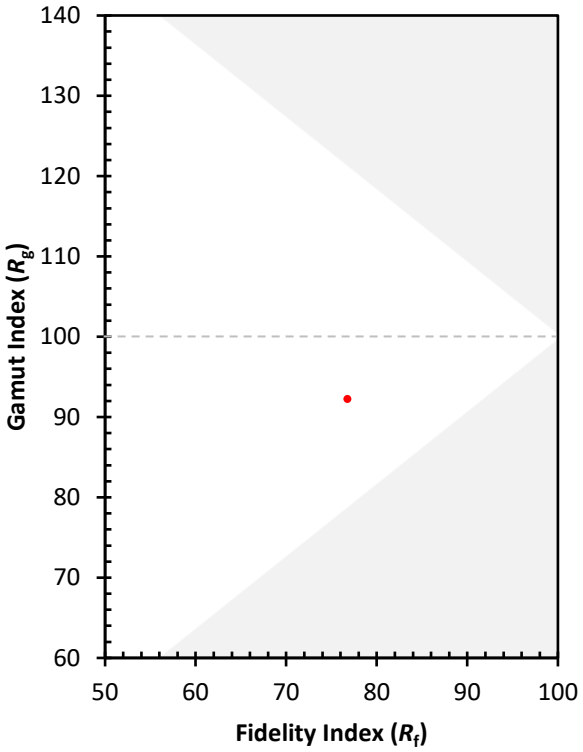


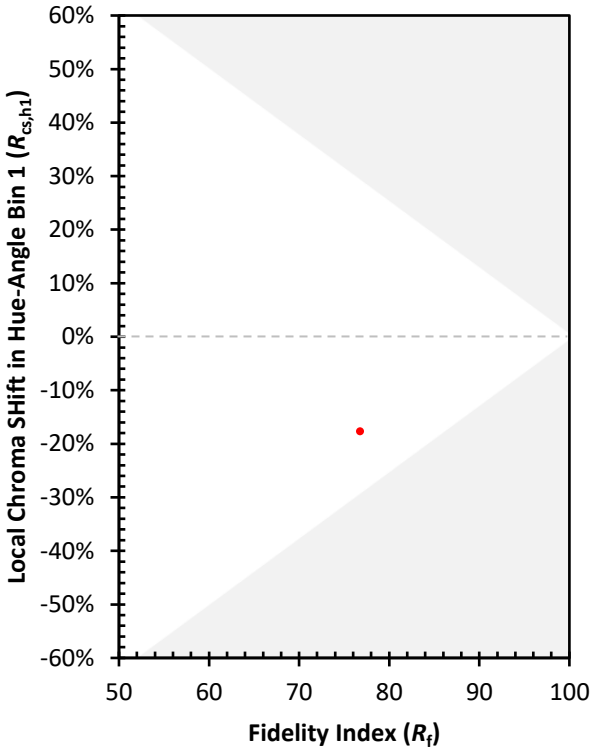


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Measure Comparisons





(END OF REPORT)