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: P981425

Luminaire Tested: **FFX-CLB-90-730-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981425
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-90-730-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13955.7 lumens
Efficiency:	N/A
Efficacy:	154.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U5 - G4

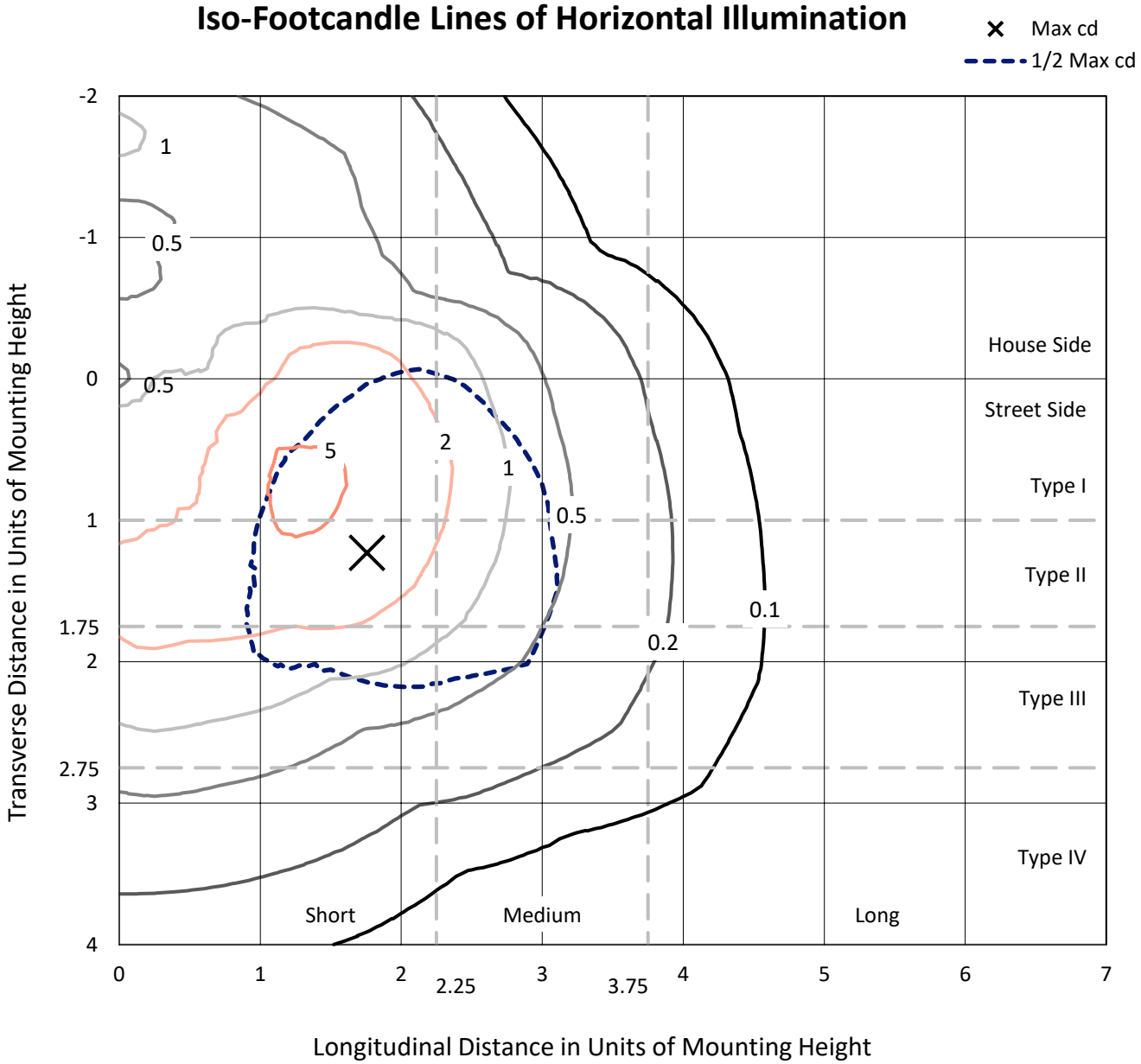
Input Watts (W):	90.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	5.42%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



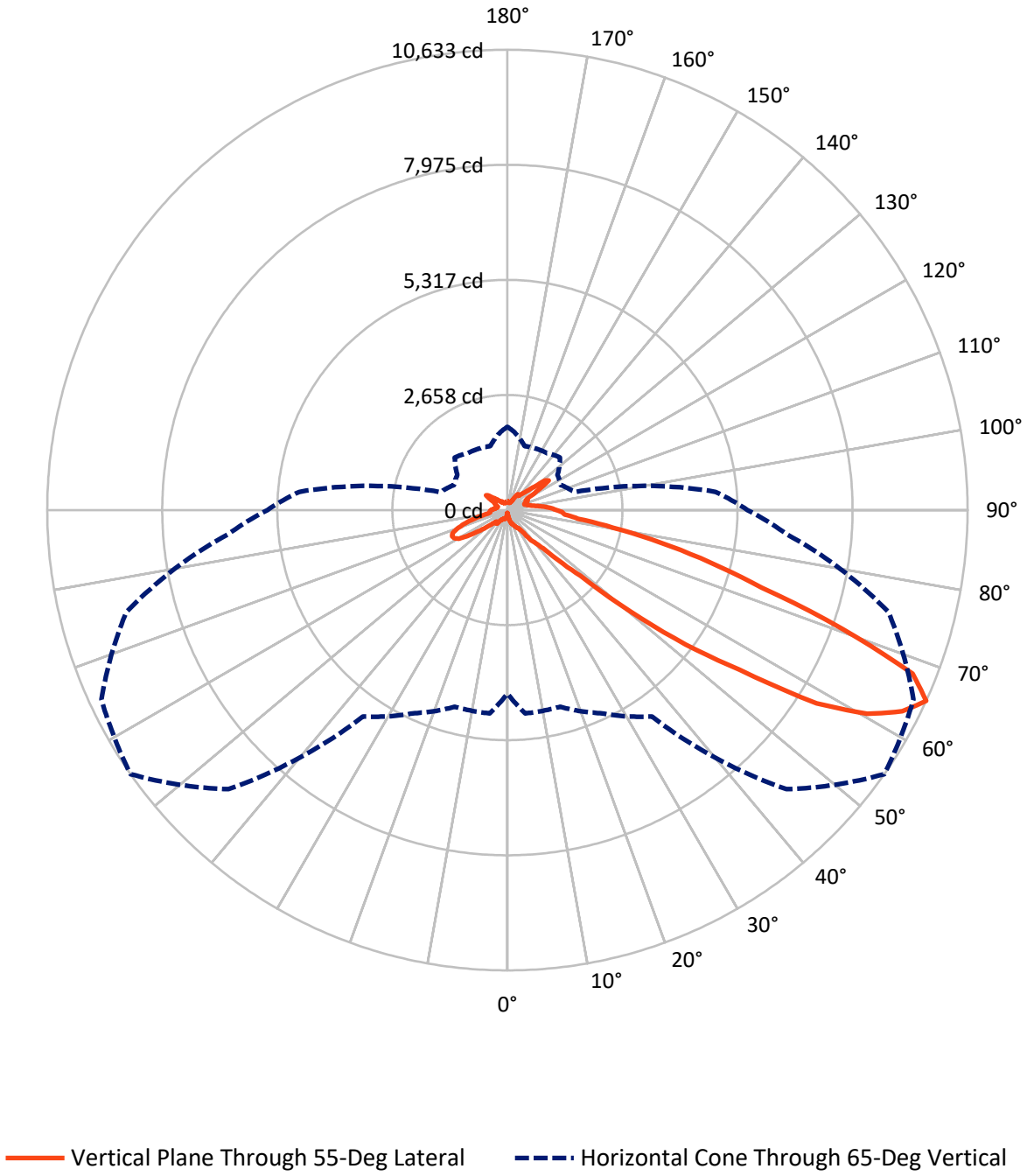
Based on 15 foot mounting height. Maximum calculated value = 5.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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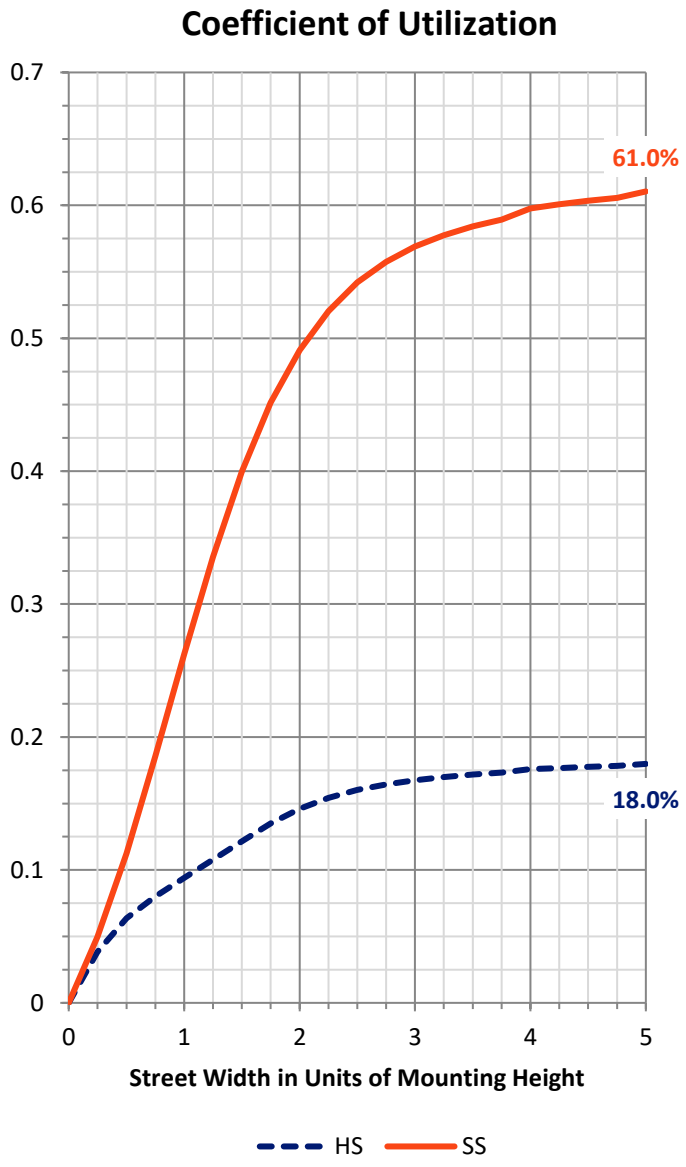
REPORT NUMBER: P981425
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2615.9	937.2	3553.0
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	8794.9	1607.7	10402.6
	% Fixture	63.0	11.5	74.5
Total	Lumens	11410.8	2544.8	13955.7
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	0.1
10°-20°	70.9	0.5
20°-30°	145.7	1.0
30°-40°	305.1	2.2
40°-50°	805.7	5.8
50°-60°	2681.0	19.2
60°-70°	4324.7	31.0
70°-80°	2268.6	16.3
80°-90°	796.0	5.7
90°-100°	513.9	3.7
100°-110°	333.2	2.4
110°-120°	365.6	2.6
120°-130°	614.8	4.4
130°-140°	360.2	2.6
140°-150°	192.7	1.4
150°-160°	95.7	0.7
160°-170°	50.4	0.4
170°-180°	18.3	0.1
0°-90°	11410.8	81.8
0°-180°	13955.7	100.0



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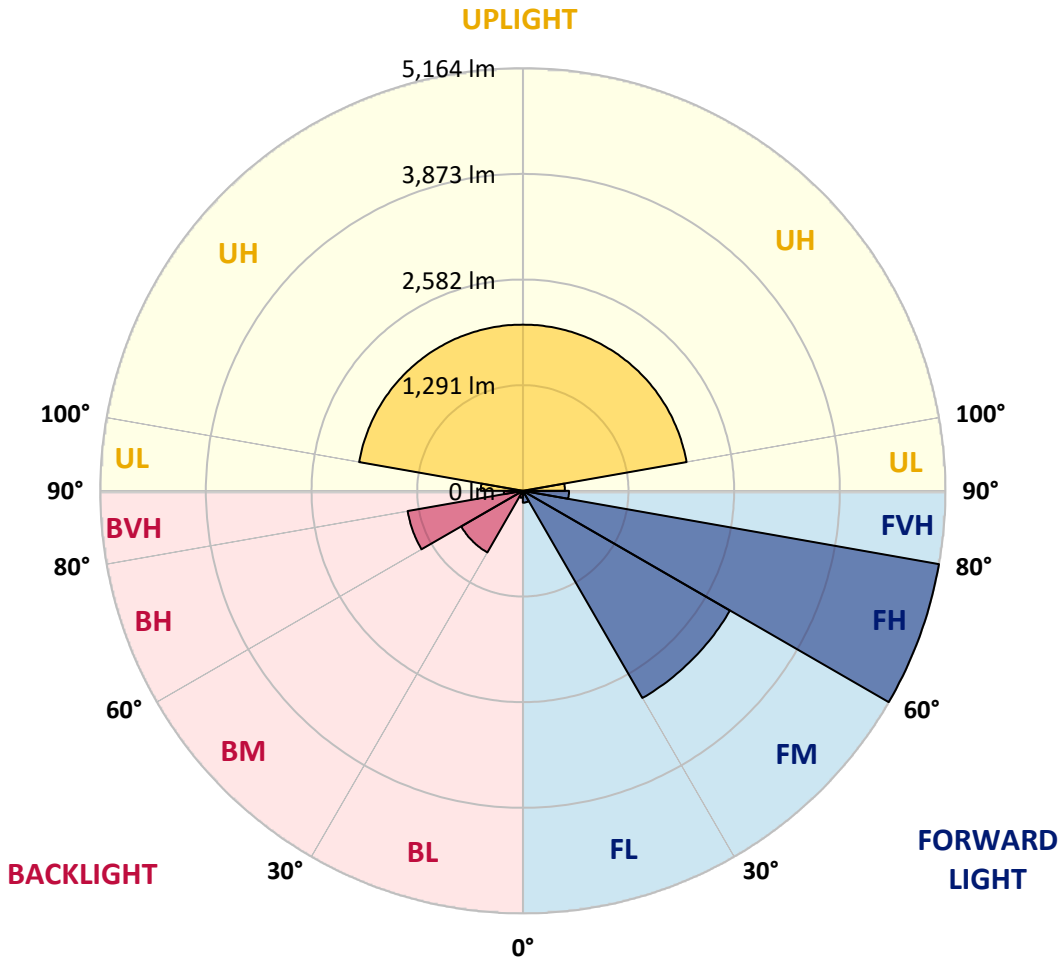
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	144.8	1.0			
FM	(30°-60°)	2922.7	20.9			
FH	(60°-80°)	5163.9	37.0			G3/7500
FVH	(80°-90°)	563.6	4.0			G4/750
BL	(0°-30°)	84.8	0.6	B0/110		
BM	(30°-60°)	869.2	6.2	B1/1000		
BH	(60°-80°)	1429.4	10.2	B3/2500		G3/2500
BVH	(80°-90°)	232.4	1.7			G3/500
UL	(90°-100°)	513.9	3.7		U4/1000	
UH	(100°-180°)	2030.9	14.6		U5	

BUG Rating: B3-U5-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
2.5°	79.0	80.9	85.5	87.3	88.2	86.4	82.7	86.4	86.4	86.4	85.5
5°	114.9	114.9	114.9	117.6	118.5	120.4	118.5	114.0	110.3	106.6	105.7
7.5°	160.8	162.7	163.6	163.6	163.6	167.3	170.9	162.7	155.3	148.0	146.1
10°	230.7	226.1	221.5	223.3	219.6	212.3	216.0	209.5	193.0	187.5	187.5
12.5°	295.0	294.1	295.9	285.8	280.3	264.7	266.5	262.8	250.9	231.6	225.1
15°	330.8	333.6	332.7	336.3	328.1	306.0	300.5	302.3	291.3	272.9	263.7
17.5°	349.2	349.2	350.1	354.7	354.7	333.6	324.4	319.8	310.6	295.0	283.0
20°	358.4	358.4	357.5	363.9	376.8	364.8	352.0	344.6	336.3	311.5	293.2
22.5°	384.1	382.3	379.5	381.4	400.7	397.0	386.9	375.9	363.9	326.2	303.3
25°	410.8	411.7	403.4	406.2	425.5	431.0	422.7	411.7	397.9	340.9	318.0
27.5°	441.1	440.2	429.2	432.8	442.9	463.2	453.1	447.5	424.6	352.9	330.8
30°	468.7	464.1	453.1	462.2	462.2	494.4	485.2	488.0	459.5	374.9	351.0
32.5°	488.9	488.0	481.5	493.5	487.1	528.4	525.7	548.6	506.4	418.1	396.1
35°	534.8	535.8	562.4	585.4	574.4	635.0	647.9	677.3	625.8	525.7	501.8
37.5°	865.7	854.6	817.9	775.6	781.1	894.2	878.5	894.2	815.1	670.8	633.2
40°	911.6	914.4	872.1	839.9	835.3	979.6	1003.5	1130.3	964.9	804.1	729.7
42.5°	887.7	896.9	1012.7	1054.1	1017.3	1201.1	1208.4	1452.9	1125.7	991.6	893.2
45°	1125.7	1127.6	1151.5	1178.1	1182.7	1640.4	1666.1	1936.3	1431.8	1248.9	1082.5
47.5°	1281.0	1295.7	1328.8	1510.8	1607.3	2097.1	2268.9	2698.1	1906.9	1702.9	1374.8
50°	1811.3	1851.7	2015.3	2171.5	2322.2	3109.8	3687.8	4199.7	2864.4	2495.9	1997.8
52.5°	2207.4	2352.6	2535.4	2912.2	3071.2	4250.2	5158.2	5475.2	4012.2	3382.7	2722.0
55°	2551.1	2817.6	3015.1	3631.8	3934.1	5541.4	6510.0	6555.9	5384.3	4128.9	3490.3
57.5°	3258.7	3647.4	3776.1	4303.5	4724.4	7078.8	8424.2	8198.1	6784.8	4979.0	4310.0
60°	3924.9	4372.5	4324.7	4810.8	5367.7	8401.2	9557.3	9442.4	8097.1	5784.0	5026.8
62.5°	4141.8	4595.8	4555.3	5066.3	5815.3	9017.9	10237.3	10047.1	8871.8	6287.6	5387.0
65°	4236.5	4715.2	4704.2	5182.1	5820.8	9116.2	10633.4	10350.4	9115.3	6490.7	5545.1
67.5°	4155.6	4611.4	4606.8	5047.0	5396.2	8403.1	10097.7	9680.4	8515.2	6012.8	5204.1
70°	3585.8	3902.9	3883.6	4153.8	4336.6	6679.1	8194.5	7879.3	6872.1	4941.3	4310.9
72.5°	2924.2	3017.9	3058.3	3212.7	3261.4	4888.0	6145.2	5894.3	5124.2	3700.7	3268.8
75°	2335.1	2339.7	2382.0	2436.2	2419.7	3595.9	4840.2	4684.9	3778.8	2760.6	2479.4
77.5°	1545.7	1533.8	1719.4	1741.5	1635.8	2291.0	3614.3	3505.0	2704.5	2011.6	1813.1
80°	886.8	890.5	1017.3	1097.3	1055.0	1455.7	2476.6	2452.7	1857.2	1407.9	1245.2
82.5°	661.7	692.9	760.9	803.2	786.6	1094.5	1647.7	1692.7	1319.6	1012.7	925.4
85°	737.0	754.5	761.8	764.6	744.4	1023.7	1330.7	1327.9	1109.2	850.0	820.6
87.5°	717.7	732.4	738.9	742.5	722.3	978.7	1257.2	1238.8	1064.2	817.0	773.8
90°	603.8	637.8	636.8	669.0	646.0	860.2	1102.8	1090.8	965.8	752.6	702.1
92.5°	506.4	525.7	538.5	582.6	562.4	757.2	991.6	964.0	864.8	684.6	630.4
95°	473.3	490.7	500.8	525.7	500.8	654.3	835.3	810.5	717.7	570.7	518.3
97.5°	398.8	404.3	413.5	430.1	413.5	530.2	676.4	652.5	576.2	465.9	429.2
100°	338.2	343.7	355.6	367.6	359.3	454.0	566.1	553.2	495.3	405.3	380.5
102.5°	319.8	323.5	339.1	346.5	336.3	417.2	499.9	499.9	448.5	374.0	353.8
105°	305.1	309.7	321.6	324.4	317.0	384.1	461.3	456.7	416.3	350.1	330.8
107.5°	290.4	295.9	306.0	301.4	297.7	353.8	414.5	421.8	386.9	332.7	319.8
110°	306.0	307.9	316.1	308.8	315.2	352.0	416.3	418.1	408.0	363.0	349.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	416.3	406.2	423.6	396.1	417.2	442.9	*483.4*	498.1	486.1	434.7	422.7
115°	455.8	463.2	481.5	454.0	467.8	499.0	*518.3*	521.1	507.3	474.2	469.6
117.5°	355.6	392.4	373.1	389.6	395.2	438.3	*482.5*	495.3	482.5	436.5	465.0
120°	454.9	484.3	418.1	397.9	425.5	500.8	*541.3*	552.3	517.4	518.3	535.8
122.5°	754.5	771.0	812.4	833.5	801.3	847.3	*861.1*	871.2	817.9	755.4	724.1
125°	1145.0	1133.1	1127.6	1122.1	1113.8	1162.5	*1171.7*	1146.0	1092.7	1005.4	956.6
127.5°	1035.7	1045.8	1061.4	1059.6	1052.2	1089.9	*1112.9*	1097.3	1082.5	998.9	970.4
130°	745.3	749.9	777.4	827.1	821.6	851.9	*854.6*	870.3	895.1	858.3	828.9
132.5°	617.5	622.1	663.5	685.6	687.4	688.3	*675.4*	711.3	737.0	700.3	675.4
135°	538.5	538.5	547.7	539.4	542.2	566.1	*577.1*	609.3	615.7	598.3	573.4
137.5°	476.0	477.9	458.6	442.9	445.7	488.9	*513.7*	538.5	525.7	489.8	472.4
140°	414.5	404.3	377.7	373.1	393.3	434.7	*449.4*	466.8	470.5	424.6	401.6
142.5°	305.1	301.4	313.4	338.2	349.2	418.1	*407.1*	440.2	442.0	364.8	327.2
145°	340.9	340.0	339.1	343.7	369.4	469.6	*442.9*	485.2	505.4	387.8	317.0
147.5°	385.0	384.1	375.9	365.8	404.3	429.2	*405.3*	442.0	464.1	385.0	306.9
150°	297.7	299.6	295.0	292.2	334.5	329.9	*324.4*	334.5	343.7	318.9	279.4
152.5°	231.6	227.9	225.1	226.1	261.0	255.5	*255.5*	262.8	263.7	254.6	234.3
155°	208.6	207.7	205.8	209.5	230.7	225.1	*220.6*	218.7	214.1	211.4	208.6
157.5°	195.7	193.9	193.9	199.4	214.1	204.9	*203.1*	201.3	198.5	198.5	199.4
160°	182.9	182.0	182.0	190.2	194.8	186.6	*184.7*	183.8	182.9	184.7	186.6
162.5°	175.5	175.5	175.5	181.0	181.0	175.5	*173.7*	172.8	173.7	180.1	181.0
165°	172.8	171.8	172.8	175.5	174.6	170.9	*170.0*	170.0	172.8	178.3	179.2
167.5°	177.4	177.4	177.4	178.3	177.4	173.7	*172.8*	172.8	175.5	180.1	180.1
170°	184.7	183.8	183.8	183.8	182.9	179.2	*177.4*	178.3	179.2	182.0	182.0
172.5°	191.1	191.1	190.2	189.3	187.5	185.6	*183.8*	183.8	183.8	184.7	184.7
175°	198.5	198.5	198.5	197.6	197.6	194.8	*193.9*	193.0	192.1	191.1	190.2
177.5°	206.8	205.8	205.8	205.8	205.8	203.1	*201.3*	200.3	198.5	197.6	197.6
180°	203.1	203.1	203.1	203.1	203.1	203.1	*203.1*	203.1	203.1	203.1	203.1

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
2.5°	85.5	82.7	78.1	69.8	67.1	64.3	61.6	56.1	53.3	51.5
5°	104.8	101.1	100.2	95.6	89.1	83.6	82.7	80.9	80.0	77.2
7.5°	149.8	151.6	156.2	148.0	129.6	119.5	122.2	132.3	128.7	127.7
10°	188.4	200.3	209.5	188.4	155.3	134.2	135.1	155.3	157.1	160.8
12.5°	220.6	230.7	228.8	202.2	170.9	150.7	144.3	155.3	165.4	166.3
15°	255.5	238.0	231.6	209.5	187.5	171.8	169.1	171.8	171.8	170.0
17.5°	270.2	239.9	221.5	203.1	187.5	176.4	172.8	168.2	161.7	161.7
20°	273.9	247.2	226.1	206.8	191.1	179.2	169.1	163.6	161.7	161.7
22.5°	284.9	261.0	238.9	216.0	199.4	183.8	171.8	166.3	166.3	167.3
25°	300.5	278.4	250.9	227.0	209.5	193.0	177.4	169.1	168.2	169.1
27.5°	319.8	296.8	266.5	240.8	220.6	202.2	182.9	172.8	169.1	169.1
30°	341.9	315.2	281.2	252.7	230.7	214.1	190.2	176.4	171.8	170.0
32.5°	381.4	351.0	299.6	268.3	243.5	225.1	201.3	183.8	174.6	172.8
35°	478.8	431.9	364.8	307.9	270.2	238.0	209.5	188.4	176.4	174.6
37.5°	584.5	513.7	450.3	386.9	331.7	279.4	225.1	195.7	181.0	178.3
40°	650.6	557.8	501.8	407.1	399.8	356.6	276.6	216.0	190.2	186.6
42.5°	786.6	647.9	558.7	359.3	390.6	399.8	349.2	271.1	215.0	208.6
45°	947.5	761.8	626.7	384.1	402.5	391.5	357.5	314.3	268.3	255.5
47.5°	1227.7	869.3	650.6	445.7	460.4	430.1	379.5	334.5	300.5	295.9
50°	1771.8	1185.5	732.4	547.7	591.8	507.3	442.0	407.1	361.2	355.6
52.5°	2472.0	1427.2	822.5	708.5	808.7	703.9	598.3	527.5	517.4	521.1
55°	3231.1	1501.6	941.0	875.8	1051.3	953.0	831.7	763.7	830.8	851.9
57.5°	3983.7	1613.7	1112.9	1092.7	1316.0	1166.2	1070.6	1100.0	1379.4	1446.5
60°	4576.5	1709.3	1258.1	1301.3	1577.9	1415.2	1374.8	1418.0	1897.7	2076.0
62.5°	4809.0	1666.1	1333.4	1389.5	1701.0	1589.8	1576.0	1617.4	2021.7	2197.3
65°	*4826.4*	*1599.9*	*1362.8*	*1413.4*	*1720.3*	*1601.8*	*1564.1*	*1529.2*	*1810.4*	*1921.6*
67.5°	4466.2	1467.6	1327.0	1379.4	1634.9	1477.7	1399.6	1320.6	1464.8	1526.4
70°	3600.5	1301.3	1214.9	1245.2	1374.8	1229.6	1123.0	1068.8	1120.2	1115.6
72.5°	2727.5	1146.0	1091.7	1061.4	1123.0	1005.4	887.7	835.3	881.3	869.3
75°	2083.3	1022.8	972.3	871.2	930.9	771.9	642.4	606.5	628.6	620.3
77.5°	1503.4	819.7	752.6	641.4	718.6	561.5	431.0	405.3	410.8	393.3
80°	1082.5	611.1	545.9	466.8	528.4	401.6	319.8	314.3	317.0	298.7
82.5°	850.0	489.8	446.6	404.3	423.6	363.0	307.9	302.3	305.1	284.9
85°	792.2	479.7	434.7	407.1	413.5	357.5	298.7	296.8	301.4	279.4
87.5°	747.1	475.1	439.3	399.8	384.1	328.1	276.6	284.9	297.7	274.8
90°	658.9	442.9	411.7	375.9	359.3	307.9	276.6	288.6	287.6	271.1
92.5°	580.8	395.2	370.3	350.1	346.5	313.4	289.5	300.5	304.2	287.6
95°	476.0	333.6	321.6	315.2	320.7	288.6	268.3	273.9	270.2	261.0
97.5°	405.3	304.2	295.9	286.7	281.2	258.2	240.8	248.1	251.8	243.5
100°	366.7	289.5	283.0	272.9	272.0	256.4	247.2	261.9	272.9	268.3
102.5°	342.8	274.8	266.5	257.3	254.6	241.7	234.3	243.5	253.6	244.4
105°	325.3	261.0	248.1	239.9	235.3	226.1	216.9	220.6	231.6	227.0
107.5°	308.8	260.1	239.9	233.4	233.4	221.5	208.6	209.5	215.0	214.1
110°	334.5	288.6	251.8	242.6	239.9	236.2	227.0	217.8	210.4	210.4

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

Scaled Data Report

REPORT NUMBER: P981425
CATALOG NUMBER: FFX-CLB-90-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	400.7	353.8	316.1	286.7	274.8	261.0	241.7	227.9	217.8	215.0
115°	430.1	379.5	343.7	311.5	284.0	257.3	240.8	230.7	225.1	230.7
117.5°	405.3	335.4	330.8	297.7	272.0	250.9	246.3	229.7	238.9	238.9
120°	455.8	389.6	379.5	331.7	295.9	269.3	266.5	263.7	253.6	249.0
122.5°	666.3	579.9	538.5	467.8	406.2	351.0	319.8	276.6	246.3	239.9
125°	905.2	791.2	692.0	598.3	505.4	407.1	324.4	260.1	228.8	224.2
127.5°	907.9	792.2	682.8	568.8	467.8	364.8	291.3	246.3	224.2	223.3
130°	798.6	697.5	577.1	464.1	382.3	314.3	261.0	224.2	208.6	204.0
132.5°	635.9	545.9	468.7	398.8	336.3	278.4	230.7	204.9	195.7	194.8
135°	534.8	456.7	402.5	351.0	302.3	250.9	206.8	193.9	189.3	187.5
137.5°	436.5	389.6	356.6	315.2	268.3	226.1	196.7	191.1	189.3	185.6
140°	378.6	347.4	311.5	265.6	229.7	194.8	179.2	183.8	188.4	187.5
142.5°	308.8	285.8	259.1	228.8	204.0	188.4	182.0	184.7	184.7	185.6
145°	293.2	262.8	248.1	229.7	213.2	201.3	185.6	180.1	179.2	179.2
147.5°	272.0	260.1	250.9	238.0	213.2	191.1	173.7	170.9	174.6	173.7
150°	254.6	246.3	235.3	215.0	190.2	175.5	166.3	167.3	173.7	174.6
152.5°	216.0	211.4	204.0	191.1	173.7	166.3	161.7	165.4	170.0	170.9
155°	192.1	189.3	187.5	179.2	168.2	163.6	161.7	164.5	169.1	170.0
157.5°	190.2	183.8	181.0	175.5	167.3	162.7	162.7	165.4	168.2	169.1
160°	184.7	176.4	175.5	170.0	168.2	165.4	167.3	168.2	170.9	170.0
162.5°	180.1	174.6	173.7	170.0	171.8	174.6	174.6	175.5	177.4	176.4
165°	178.3	173.7	172.8	172.8	178.3	182.9	183.8	182.9	182.9	182.9
167.5°	180.1	177.4	176.4	178.3	182.9	188.4	189.3	187.5	185.6	184.7
170°	182.9	182.0	182.9	183.8	186.6	190.2	190.2	188.4	188.4	188.4
172.5°	185.6	187.5	188.4	188.4	191.1	193.0	193.9	193.0	193.0	193.0
175°	191.1	192.1	192.1	193.0	195.7	197.6	199.4	199.4	199.4	199.4
177.5°	197.6	197.6	197.6	198.5	199.4	202.2	203.1	204.9	205.8	205.8
180°	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1

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

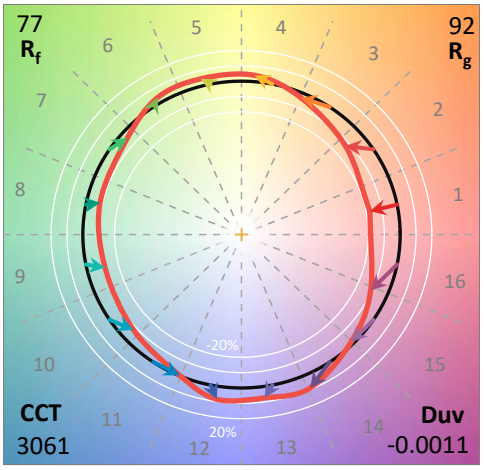
Test Information

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

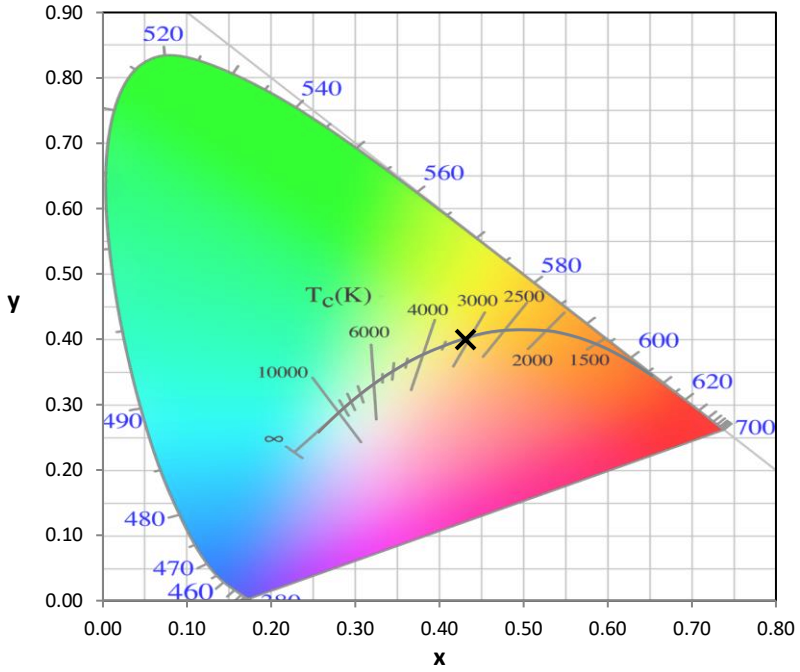
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

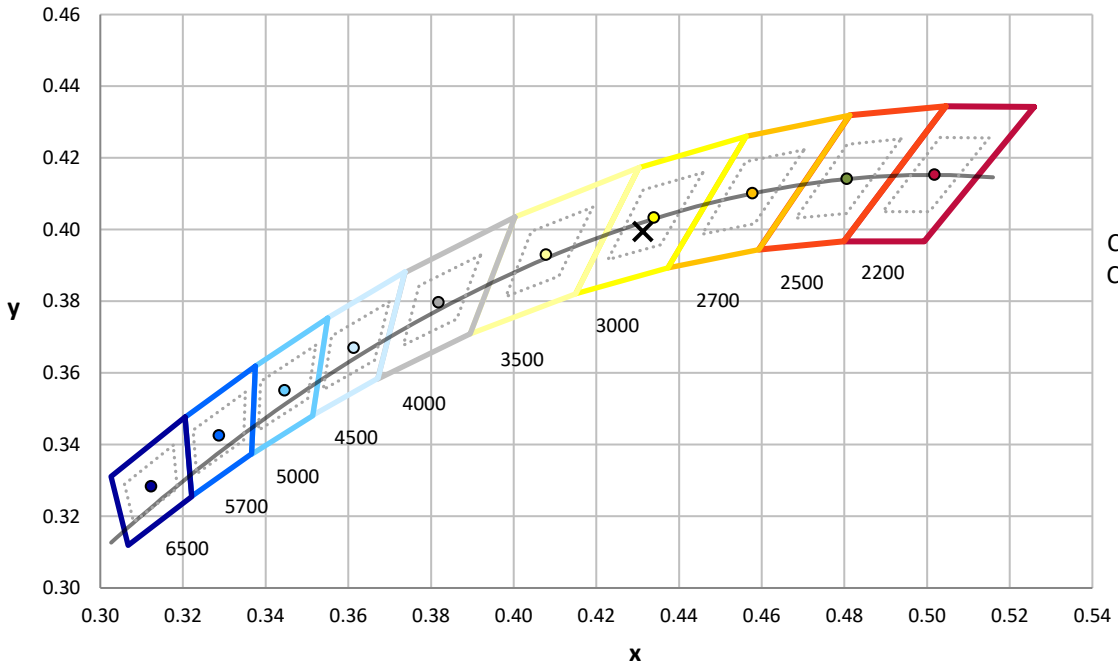
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

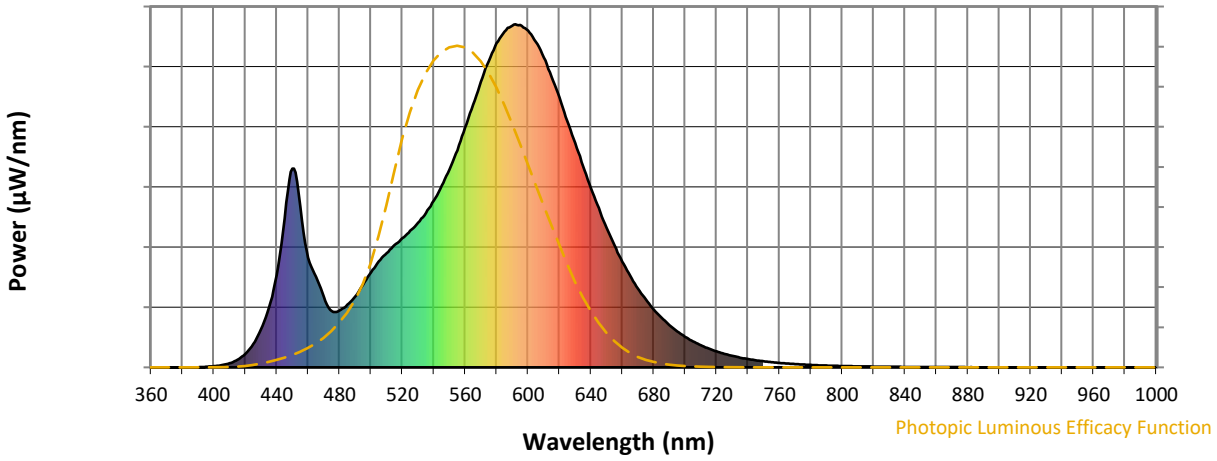


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

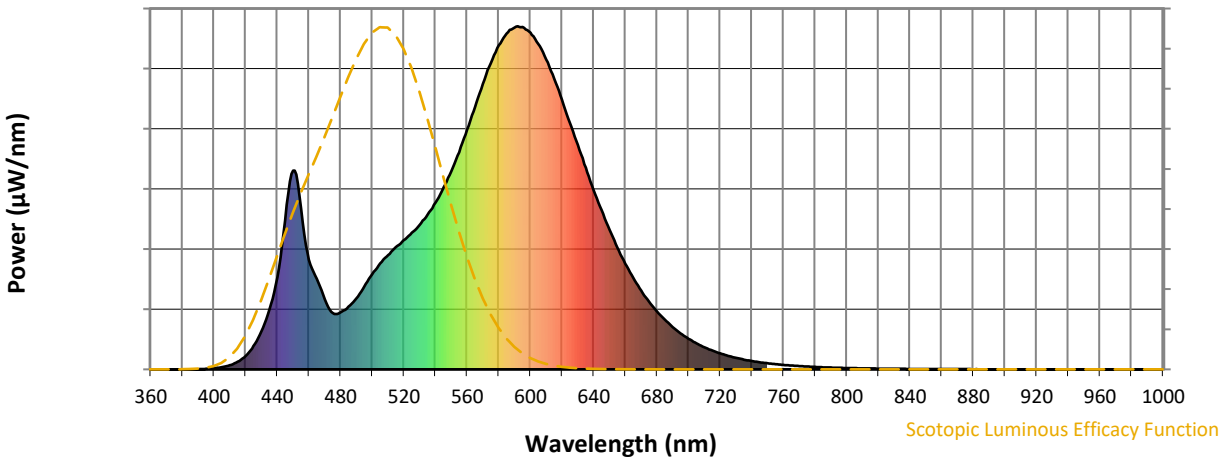


Photopic Lumens: NR

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

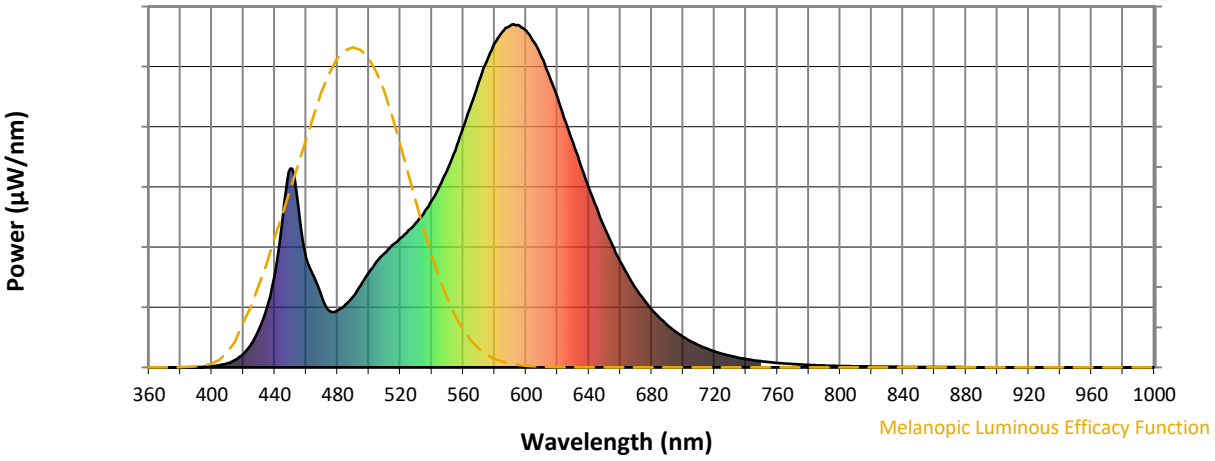


Scotopic Lumens: NR **S/P: 1.29**

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			

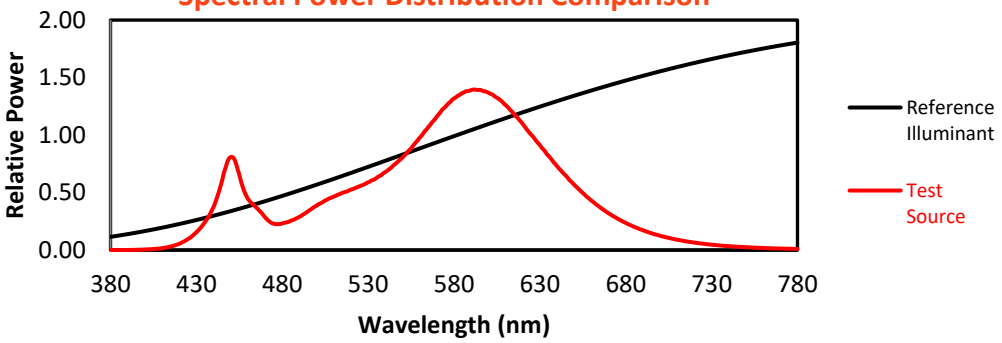
REPORT NUMBER: SP1-2501-332-4

TM-30-18

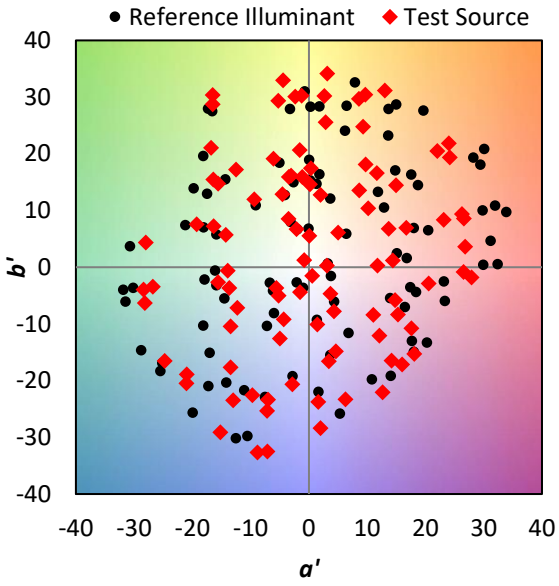
Summary

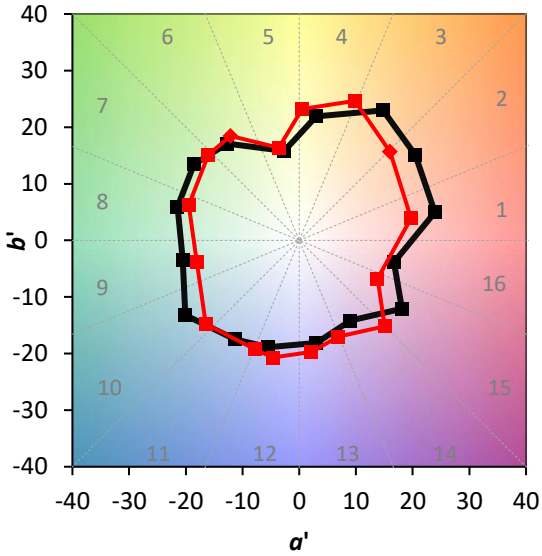
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

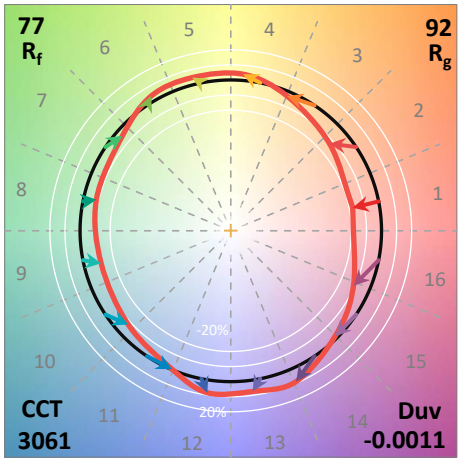
Spectral Power Distribution Comparison

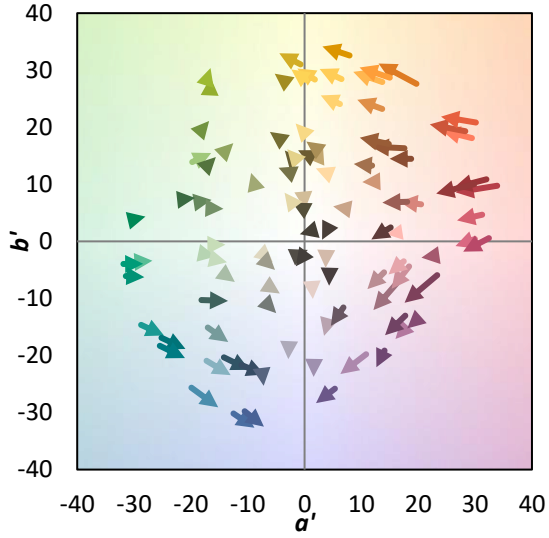


Color Vector Graphics







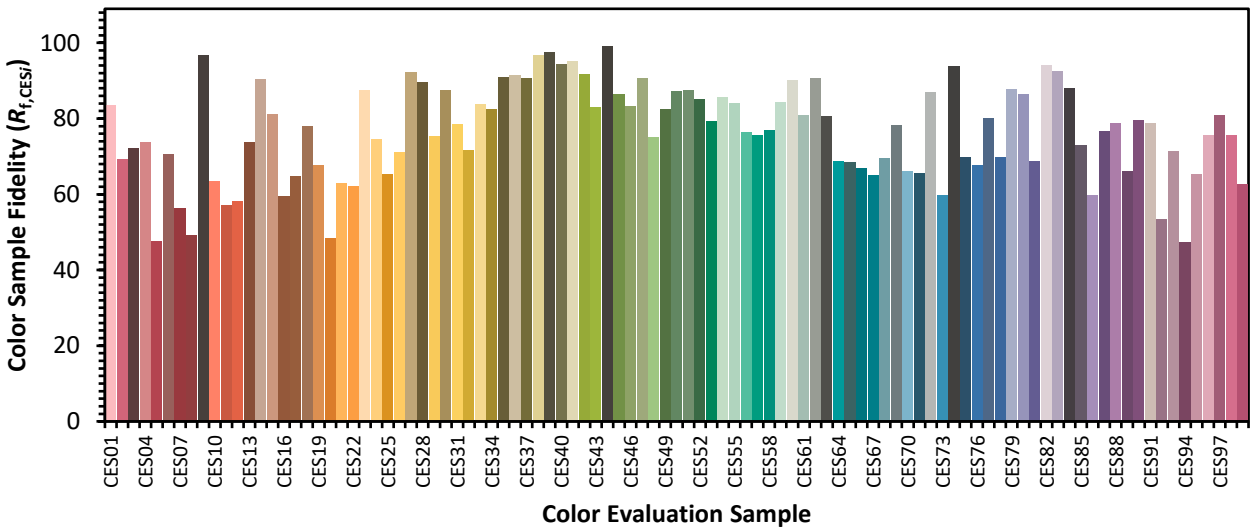


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

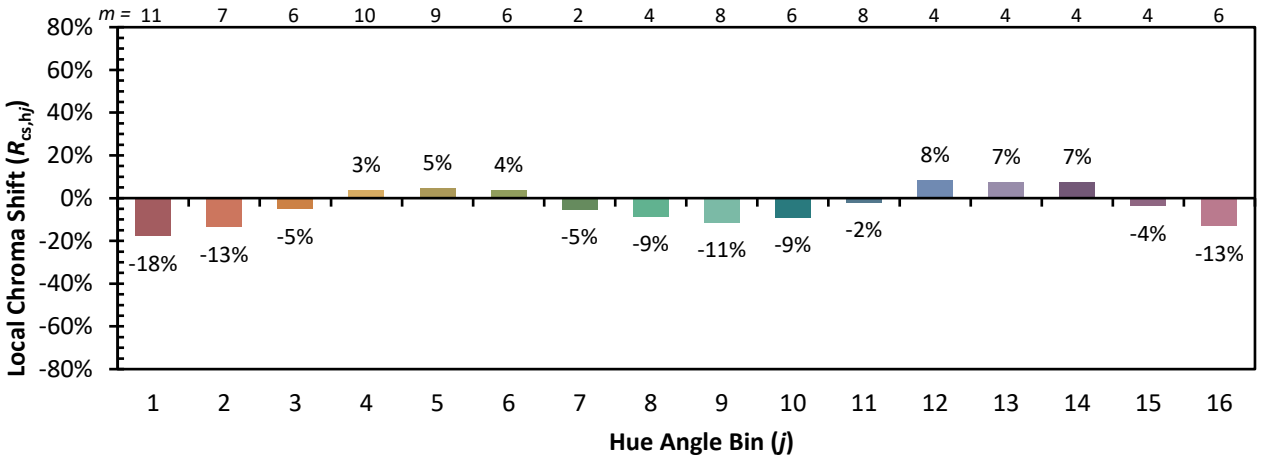
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

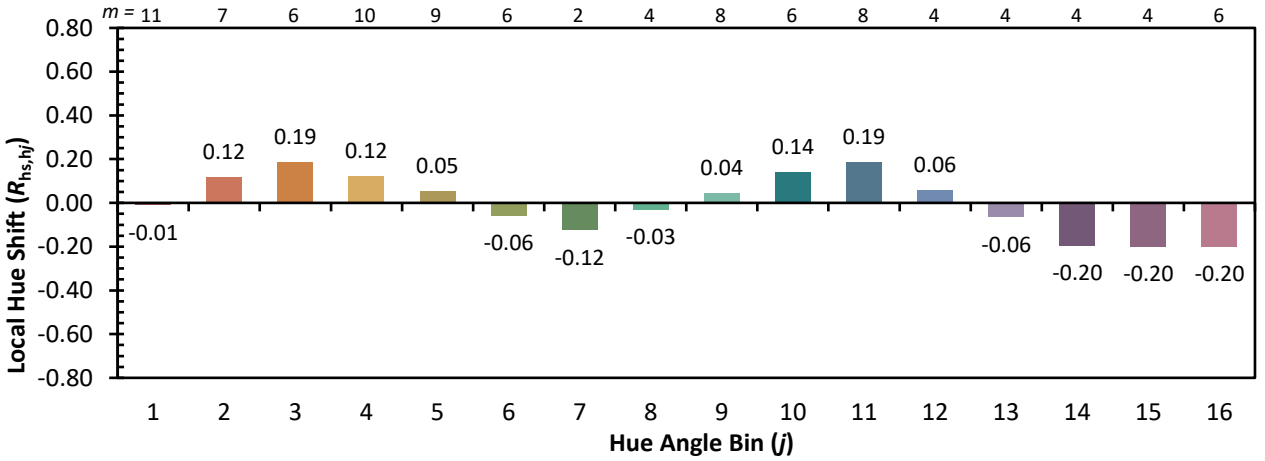


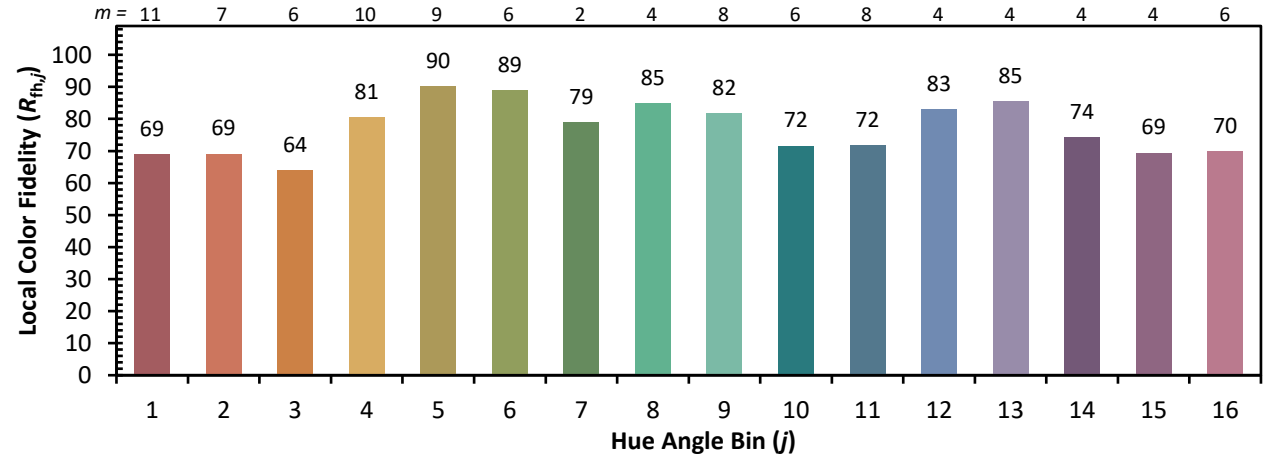
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Color Rendition by Hue-Angle Bin



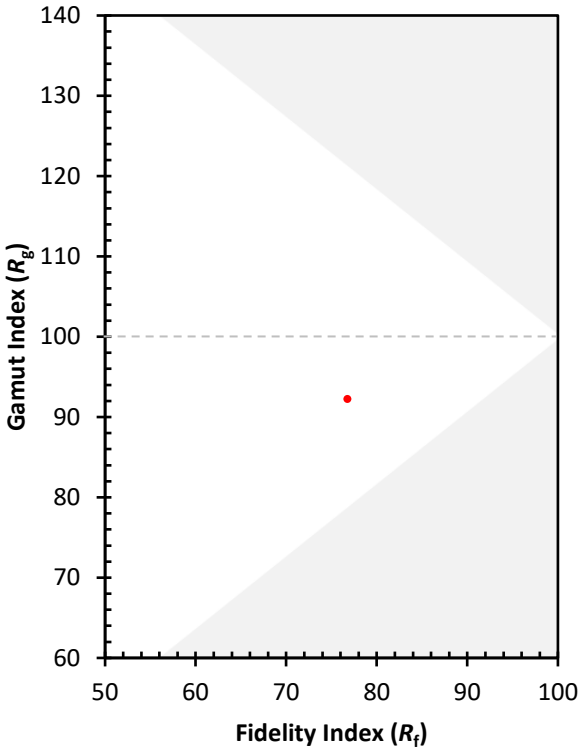


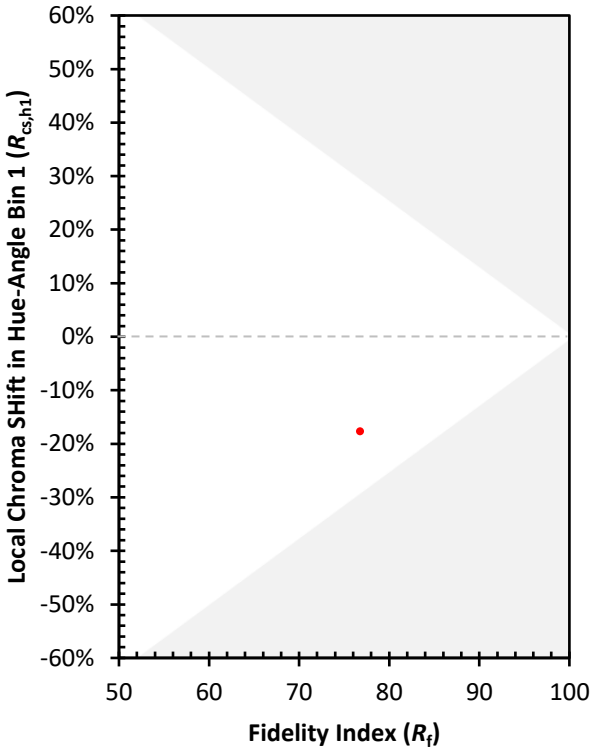


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Measure Comparisons





(END OF REPORT)