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: P981428

Luminaire Tested: **FFX-CLB-60-730-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:	P981428
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-730-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:	9307.2 lumens
Efficiency:	N/A
Efficacy:	153.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - U5 - G3

Input Watts (W):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

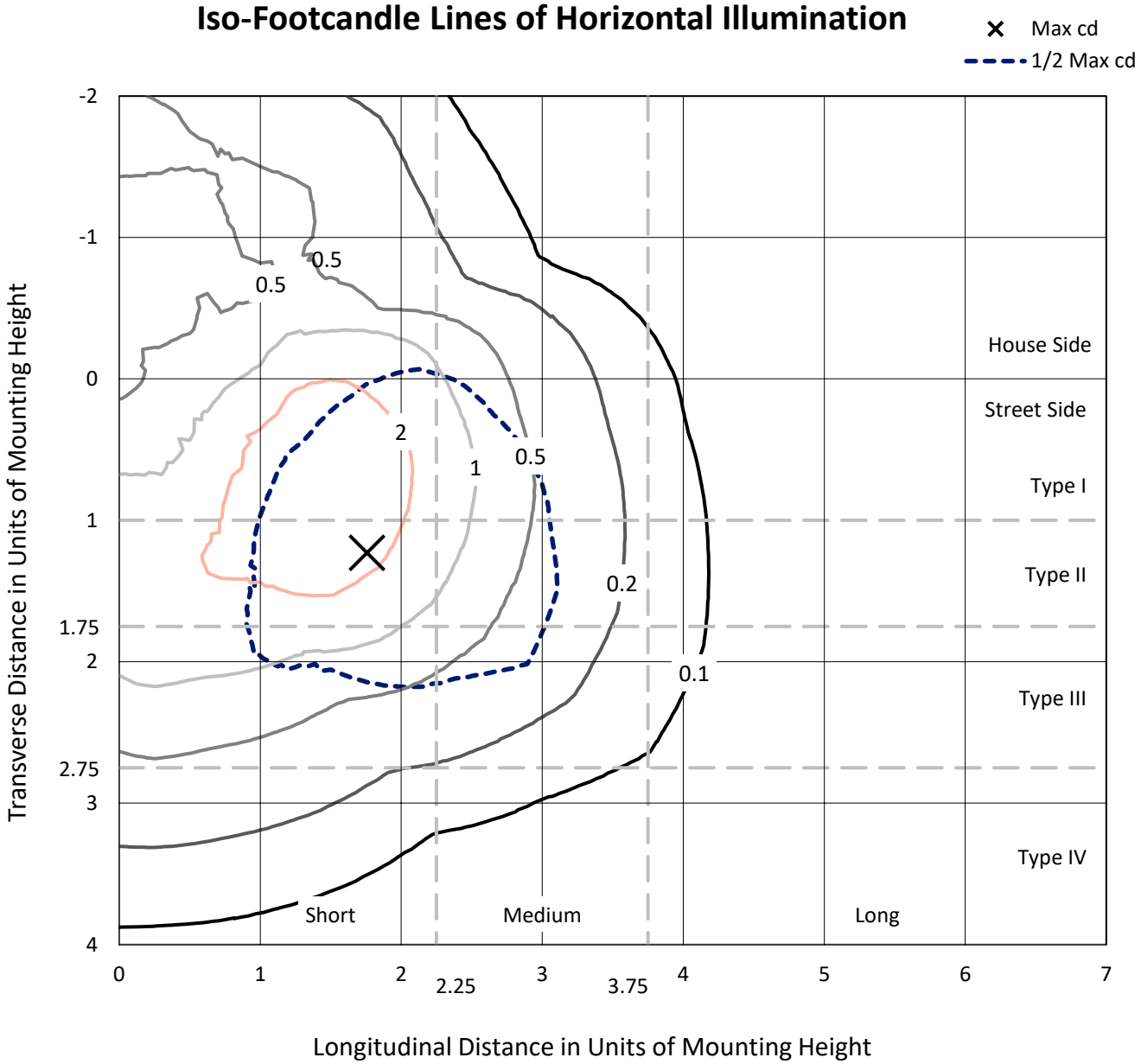


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Iso-Footcandle Lines of Horizontal Illumination



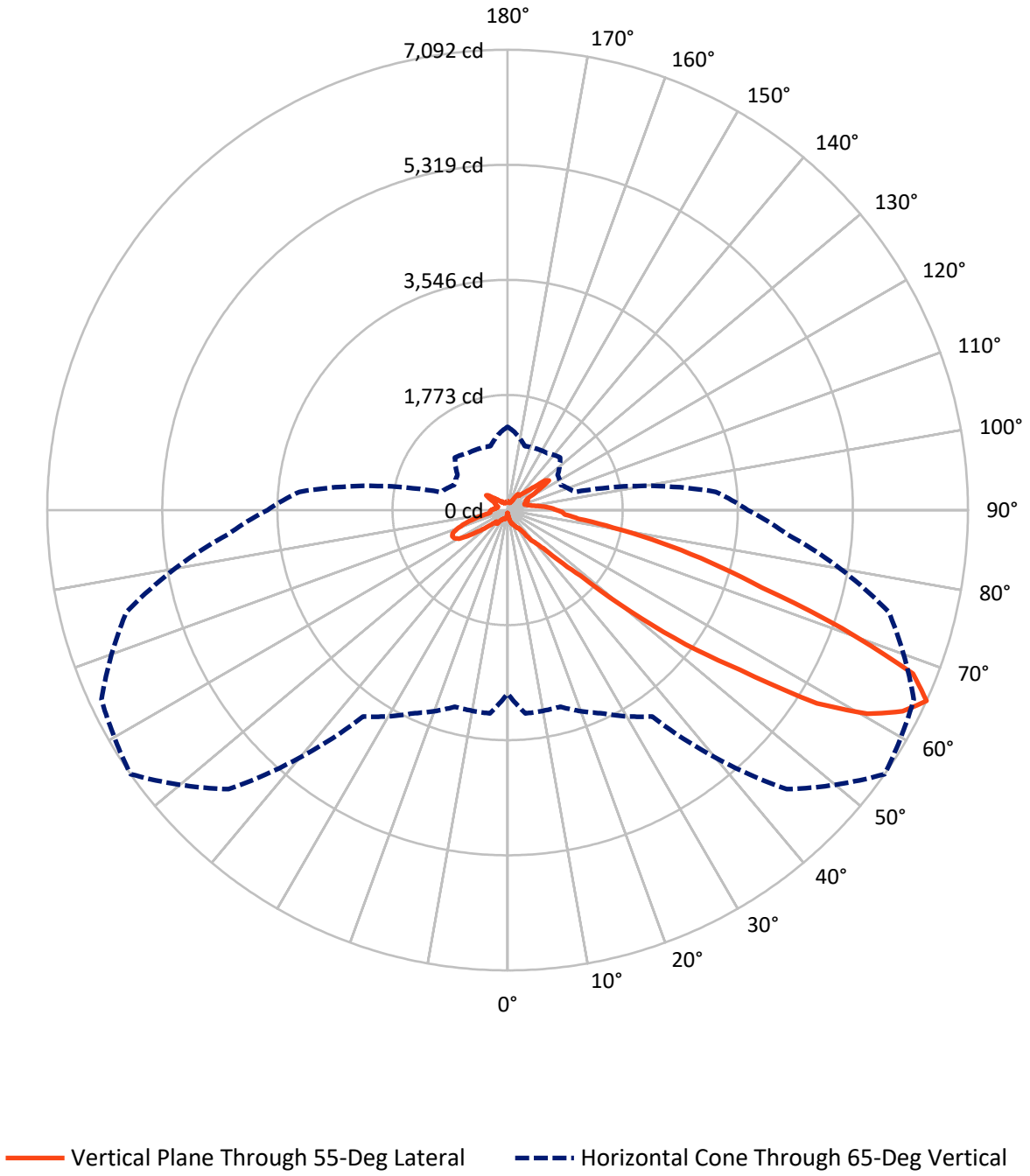
Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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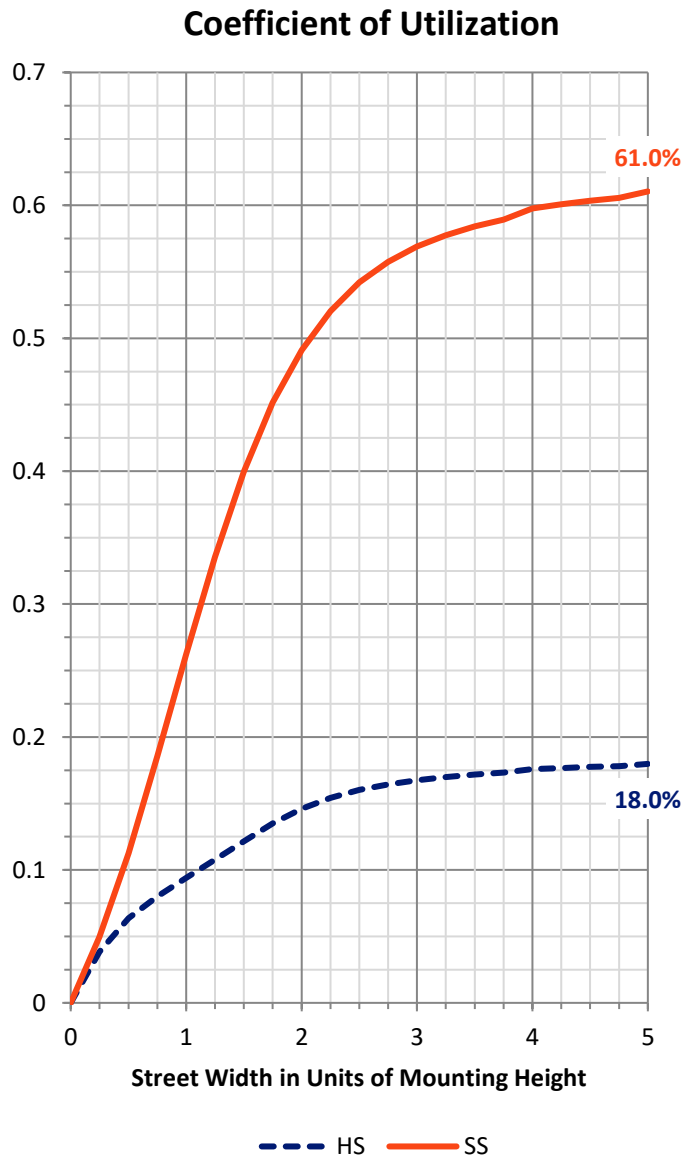
REPORT NUMBER: P981428
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1744.6	625.0	2369.6
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	5865.5	1072.2	6937.7
	% Fixture	63.0	11.5	74.5
Total	Lumens	7610.0	1697.2	9307.2
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.1
10°-20°	47.3	0.5
20°-30°	97.2	1.0
30°-40°	203.5	2.2
40°-50°	537.3	5.8
50°-60°	1788.0	19.2
60°-70°	2884.2	31.0
70°-80°	1513.0	16.3
80°-90°	530.9	5.7
90°-100°	342.8	3.7
100°-110°	222.2	2.4
110°-120°	243.8	2.6
120°-130°	410.0	4.4
130°-140°	240.2	2.6
140°-150°	128.5	1.4
150°-160°	63.8	0.7
160°-170°	33.6	0.4
170°-180°	12.2	0.1
0°-90°	7610.0	81.8
0°-180°	9307.2	100.0



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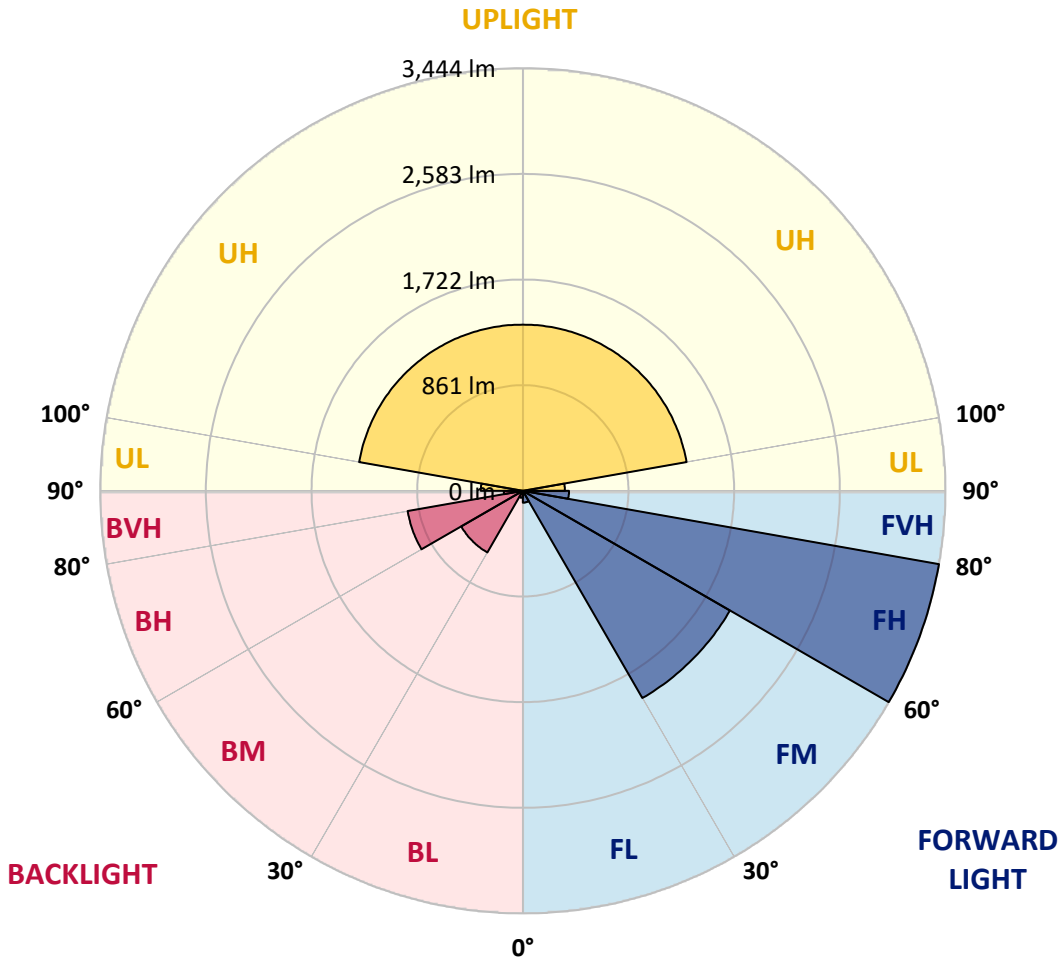
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	96.6	1.0			
FM	(30°-60°)	1949.2	20.9			
FH	(60°-80°)	3443.9	37.0			G2/5000
FVH	(80°-90°)	375.9	4.0			G3/500
BL	(0°-30°)	56.6	0.6	B0/110		
BM	(30°-60°)	579.7	6.2	B1/1000		
BH	(60°-80°)	953.3	10.2	B2/1000		G2/1000
BVH	(80°-90°)	155.0	1.7			G2/225
UL	(90°-100°)	342.8	3.7		U3/500	
UH	(100°-180°)	1354.4	14.6		U5	

BUG Rating: B2-U5-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	52.7	52.7	52.7	52.7	52.7	52.7	*52.7*	52.7	52.7	52.7	52.7
2.5°	52.7	53.9	57.0	58.2	58.8	57.6	*55.2*	57.6	57.6	57.6	57.0
5°	76.6	76.6	76.6	78.4	79.1	80.3	*79.1*	76.0	73.5	71.1	70.5
7.5°	107.3	108.5	109.1	109.1	109.1	111.5	*114.0*	108.5	103.6	98.7	97.4
10°	153.8	150.8	147.7	148.9	146.5	141.6	*144.0*	139.7	128.7	125.0	125.0
12.5°	196.7	196.1	197.3	190.6	186.9	176.5	*177.7*	175.3	167.3	154.4	150.2
15°	220.6	222.5	221.9	224.3	218.8	204.1	*200.4*	201.6	194.3	182.0	175.9
17.5°	232.9	232.9	233.5	236.6	236.6	222.5	*216.3*	213.3	207.2	196.7	188.8
20°	239.0	239.0	238.4	242.7	251.3	243.3	*234.7*	229.8	224.3	207.8	195.5
22.5°	256.2	255.0	253.1	254.3	267.2	264.8	*258.0*	250.7	242.7	217.6	202.2
25°	274.0	274.6	269.1	270.9	283.8	287.4	*281.9*	274.6	265.4	227.4	212.1
27.5°	294.2	293.6	286.2	288.7	295.4	308.9	*302.1*	298.5	283.1	235.3	220.6
30°	312.6	309.5	302.1	308.3	308.3	329.7	*323.6*	325.4	306.4	250.1	234.1
32.5°	326.1	325.4	321.1	329.1	324.8	352.4	*350.6*	365.9	337.7	278.9	264.1
35°	356.7	357.3	375.1	390.4	383.0	423.5	*432.1*	451.7	417.4	350.6	334.6
37.5°	577.3	570.0	545.5	517.3	520.9	596.3	*585.9*	596.3	543.6	447.4	422.3
40°	608.0	609.8	581.6	560.2	557.1	653.3	*669.3*	753.8	643.5	536.3	486.6
42.5°	592.0	598.2	675.4	703.0	678.5	801.0	*805.9*	969.0	750.8	661.3	595.7
45°	750.8	752.0	767.9	785.7	788.8	1094.0	*1111.1*	1291.3	954.9	832.9	722.0
47.5°	854.4	864.2	886.2	1007.6	1071.9	1398.6	*1513.2*	1799.4	1271.7	1135.7	916.9
50°	1208.0	1234.9	1344.0	1448.2	1548.7	2074.0	*2459.5*	2800.8	1910.3	1664.6	1332.4
52.5°	1472.1	1569.0	1690.9	1942.2	2048.2	2834.6	*3440.1*	3651.5	2675.8	2256.0	1815.3
55°	1701.3	1879.1	2010.8	2422.1	2623.7	3695.6	*4341.6*	4372.3	3590.8	2753.7	2327.7
57.5°	2173.3	2432.5	2518.3	2870.1	3150.8	4721.0	*5618.2*	5467.5	4524.9	3320.6	2874.4
60°	2617.6	2916.1	2884.2	3208.4	3579.8	5602.9	*6373.9*	6297.3	5400.1	3857.4	3352.4
62.5°	2762.2	3065.0	3038.0	3378.8	3878.3	6014.2	*6827.4*	6700.6	5916.7	4193.3	3592.7
65°	*2825.4*	*3144.7*	*3137.3*	*3456.0*	*3882.0*	*6079.7*	*7091.6*	*6902.8*	*6079.1*	*4328.8*	*3698.1*
67.5°	2771.4	3075.4	3072.4	3365.9	3598.8	5604.1	*6734.3*	6456.0	5678.9	4010.1	3470.7
70°	2391.4	2602.9	2590.0	2770.2	2892.2	4454.4	*5465.0*	5254.8	4583.1	3295.4	2875.0
72.5°	1950.2	2012.7	2039.7	2142.6	2175.1	3259.9	*4098.3*	3931.0	3417.4	2468.1	2180.0
75°	1557.3	1560.4	1588.6	1624.7	1613.7	2398.2	*3228.0*	3124.4	2520.2	1841.1	1653.5
77.5°	1030.9	1022.9	1146.7	1161.4	1090.9	1527.9	*2410.4*	2337.5	1803.7	1341.6	1209.2
80°	591.4	593.9	678.5	731.8	703.6	970.8	*1651.7*	1635.8	1238.6	938.9	830.4
82.5°	441.3	462.1	507.5	535.7	524.6	729.9	*1098.9*	1128.9	880.1	675.4	617.2
85°	491.5	503.2	508.1	509.9	496.4	682.7	*887.4*	885.6	739.7	566.9	547.3
87.5°	478.7	488.5	492.8	495.2	481.7	652.7	*838.4*	826.2	709.7	544.8	516.0
90°	402.7	425.3	424.7	446.2	430.9	573.7	*735.5*	727.5	644.1	501.9	468.2
92.5°	337.7	350.6	359.1	388.6	375.1	505.0	*661.3*	642.9	576.7	456.6	420.4
95°	315.6	327.3	334.0	350.6	334.0	436.4	*557.1*	540.6	478.7	380.6	345.7
97.5°	266.0	269.7	275.8	286.8	275.8	353.6	*451.1*	435.1	384.3	310.7	286.2
100°	225.5	229.2	237.2	245.2	239.6	302.8	*377.5*	369.0	330.3	270.3	253.7
102.5°	213.3	215.7	226.2	231.1	224.3	278.2	*333.4*	333.4	299.1	249.4	236.0
105°	203.5	206.5	214.5	216.3	211.4	256.2	*307.7*	304.6	277.6	233.5	220.6
107.5°	193.7	197.3	204.1	201.0	198.6	236.0	*276.4*	281.3	258.0	221.9	213.3
110°	204.1	205.3	210.8	205.9	210.2	234.7	*277.6*	278.9	272.1	242.1	232.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	277.6	270.9	282.5	264.1	278.2	295.4	*322.4*	332.2	324.2	289.9	281.9
115°	304.0	308.9	321.1	302.8	312.0	332.8	*345.7*	347.5	338.3	316.2	313.2
117.5°	237.2	261.7	248.8	259.9	263.5	292.3	*321.8*	330.3	321.8	291.1	310.1
120°	303.4	323.0	278.9	265.4	283.8	334.0	*361.0*	368.3	345.0	345.7	357.3
122.5°	503.2	514.2	541.8	555.9	534.4	565.1	*574.3*	581.0	545.5	503.8	482.9
125°	763.6	755.7	752.0	748.3	742.8	775.3	*781.4*	764.3	728.7	670.5	638.0
127.5°	690.7	697.5	707.9	706.6	701.7	726.9	*742.2*	731.8	722.0	666.2	647.2
130°	497.0	500.1	518.5	551.6	547.9	568.1	*570.0*	580.4	596.9	572.4	552.8
132.5°	411.9	414.9	442.5	457.2	458.4	459.0	*450.5*	474.4	491.5	467.0	450.5
135°	359.1	359.1	365.3	359.8	361.6	377.5	*384.9*	406.3	410.6	399.0	382.4
137.5°	317.5	318.7	305.8	295.4	297.2	326.1	*342.6*	359.1	350.6	326.7	315.0
140°	276.4	269.7	251.9	248.8	262.3	289.9	*299.7*	311.3	313.8	283.1	267.8
142.5°	203.5	201.0	209.0	225.5	232.9	278.9	*271.5*	293.6	294.8	243.3	218.2
145°	227.4	226.8	226.2	229.2	246.4	313.2	*295.4*	323.6	337.1	258.6	211.4
147.5°	256.8	256.2	250.7	243.9	269.7	286.2	*270.3*	294.8	309.5	256.8	204.7
150°	198.6	199.8	196.7	194.9	223.1	220.0	*216.3*	223.1	229.2	212.7	186.3
152.5°	154.4	152.0	150.2	150.8	174.1	170.4	*170.4*	175.3	175.9	169.8	156.3
155°	139.1	138.5	137.3	139.7	153.8	150.2	*147.1*	145.9	142.8	141.0	139.1
157.5°	130.5	129.3	129.3	133.0	142.8	136.7	*135.4*	134.2	132.4	132.4	133.0
160°	122.0	121.3	121.3	126.9	129.9	124.4	*123.2*	122.6	122.0	123.2	124.4
162.5°	117.1	117.1	117.1	120.7	120.7	117.1	*115.8*	115.2	115.8	120.1	120.7
165°	115.2	114.6	115.2	117.1	116.4	114.0	*113.4*	113.4	115.2	118.9	119.5
167.5°	118.3	118.3	118.3	118.9	118.3	115.8	*115.2*	115.2	117.1	120.1	120.1
170°	123.2	122.6	122.6	122.6	122.0	119.5	*118.3*	118.9	119.5	121.3	121.3
172.5°	127.5	127.5	126.9	126.3	125.0	123.8	*122.6*	122.6	122.6	123.2	123.2
175°	132.4	132.4	132.4	131.8	131.8	129.9	*129.3*	128.7	128.1	127.5	126.9
177.5°	137.9	137.3	137.3	137.3	137.3	135.4	*134.2*	133.6	132.4	131.8	131.8
180°	135.4	135.4	135.4	135.4	135.4	135.4	*135.4*	135.4	135.4	135.4	135.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
2.5°	57.0	55.2	52.1	46.6	44.7	42.9	41.1	37.4	35.5	34.3
5°	69.9	67.4	66.8	63.7	59.4	55.8	55.2	53.9	53.3	51.5
7.5°	99.9	101.1	104.2	98.7	86.4	79.7	81.5	88.3	85.8	85.2
10°	125.6	133.6	139.7	125.6	103.6	89.5	90.1	103.6	104.8	107.3
12.5°	147.1	153.8	152.6	134.8	114.0	100.5	96.2	103.6	110.3	110.9
15°	170.4	158.7	154.4	139.7	125.0	114.6	112.8	114.6	114.6	113.4
17.5°	180.2	160.0	147.7	135.4	125.0	117.7	115.2	112.2	107.9	107.9
20°	182.6	164.9	150.8	137.9	127.5	119.5	112.8	109.1	107.9	107.9
22.5°	190.0	174.1	159.3	144.0	133.0	122.6	114.6	110.9	110.9	111.5
25°	200.4	185.7	167.3	151.4	139.7	128.7	118.3	112.8	112.2	112.8
27.5°	213.3	198.0	177.7	160.6	147.1	134.8	122.0	115.2	112.8	112.8
30°	228.0	210.2	187.5	168.5	153.8	142.8	126.9	117.7	114.6	113.4
32.5°	254.3	234.1	199.8	179.0	162.4	150.2	134.2	122.6	116.4	115.2
35°	319.3	288.1	243.3	205.3	180.2	158.7	139.7	125.6	117.7	116.4
37.5°	389.8	342.6	300.3	258.0	221.2	186.3	150.2	130.5	120.7	118.9
40°	433.9	372.0	334.6	271.5	266.6	237.8	184.5	144.0	126.9	124.4
42.5°	524.6	432.1	372.6	239.6	260.5	266.6	232.9	180.8	143.4	139.1
45°	631.9	508.1	418.0	256.2	268.4	261.1	238.4	209.6	179.0	170.4
47.5°	818.8	579.8	433.9	297.2	307.1	286.8	253.1	223.1	200.4	197.3
50°	1181.6	790.6	488.5	365.3	394.7	338.3	294.8	271.5	240.9	237.2
52.5°	1648.6	951.8	548.5	472.5	539.3	469.5	399.0	351.8	345.0	347.5
55°	2154.9	1001.4	627.6	584.1	701.1	635.6	554.7	509.3	554.0	568.1
57.5°	2656.8	1076.2	742.2	728.7	877.6	777.7	714.0	733.6	919.9	964.7
60°	3052.1	1140.0	839.0	867.8	1052.3	943.8	916.9	945.7	1265.6	1384.5
62.5°	3207.2	1111.1	889.3	926.7	1134.4	1060.3	1051.1	1078.7	1348.3	1465.4
65°	*3218.8*	*1067.0*	*908.9*	*942.6*	*1147.3*	*1068.2*	*1043.1*	*1019.8*	*1207.4*	*1281.5*
67.5°	2978.6	978.8	885.0	919.9	1090.3	985.5	933.4	880.7	976.9	1018.0
70°	2401.3	867.8	810.2	830.4	916.9	820.0	748.9	712.8	747.1	744.0
72.5°	1819.0	764.3	728.1	707.9	748.9	670.5	592.0	557.1	587.7	579.8
75°	1389.4	682.1	648.4	581.0	620.8	514.8	428.4	404.5	419.2	413.7
77.5°	1002.7	546.7	501.9	427.8	479.3	374.5	287.4	270.3	274.0	262.3
80°	722.0	407.6	364.0	311.3	352.4	267.8	213.3	209.6	211.4	199.2
82.5°	566.9	326.7	297.9	269.7	282.5	242.1	205.3	201.6	203.5	190.0
85°	528.3	319.9	289.9	271.5	275.8	238.4	199.2	198.0	201.0	186.3
87.5°	498.3	316.9	293.0	266.6	256.2	218.8	184.5	190.0	198.6	183.3
90°	439.4	295.4	274.6	250.7	239.6	205.3	184.5	192.4	191.8	180.8
92.5°	387.3	263.5	247.0	233.5	231.1	209.0	193.1	200.4	202.9	191.8
95°	317.5	222.5	214.5	210.2	213.9	192.4	179.0	182.6	180.2	174.1
97.5°	270.3	202.9	197.3	191.2	187.5	172.2	160.6	165.5	167.9	162.4
100°	244.5	193.1	188.8	182.0	181.4	171.0	164.9	174.7	182.0	179.0
102.5°	228.6	183.3	177.7	171.6	169.8	161.2	156.3	162.4	169.2	163.0
105°	217.0	174.1	165.5	160.0	156.9	150.8	144.6	147.1	154.4	151.4
107.5°	205.9	173.4	160.0	155.7	155.7	147.7	139.1	139.7	143.4	142.8
110°	223.1	192.4	167.9	161.8	160.0	157.5	151.4	145.3	140.3	140.3

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

Scaled Data Report

REPORT NUMBER: P981428
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	267.2	236.0	210.8	191.2	183.3	174.1	161.2	152.0	145.3	143.4
115°	286.8	253.1	229.2	207.8	189.4	171.6	160.6	153.8	150.2	153.8
117.5°	270.3	223.7	220.6	198.6	181.4	167.3	164.3	153.2	159.3	159.3
120°	304.0	259.9	253.1	221.2	197.3	179.6	177.7	175.9	169.2	166.1
122.5°	444.3	386.7	359.1	312.0	270.9	234.1	213.3	184.5	164.3	160.0
125°	603.7	527.7	461.5	399.0	337.1	271.5	216.3	173.4	152.6	149.5
127.5°	605.5	528.3	455.4	379.4	312.0	243.3	194.3	164.3	149.5	148.9
130°	532.6	465.2	384.9	309.5	255.0	209.6	174.1	149.5	139.1	136.1
132.5°	424.1	364.0	312.6	266.0	224.3	185.7	153.8	136.7	130.5	129.9
135°	356.7	304.6	268.4	234.1	201.6	167.3	137.9	129.3	126.3	125.0
137.5°	291.1	259.9	237.8	210.2	179.0	150.8	131.2	127.5	126.3	123.8
140°	252.5	231.7	207.8	177.1	153.2	129.9	119.5	122.6	125.6	125.0
142.5°	205.9	190.6	172.8	152.6	136.1	125.6	121.3	123.2	123.2	123.8
145°	195.5	175.3	165.5	153.2	142.2	134.2	123.8	120.1	119.5	119.5
147.5°	181.4	173.4	167.3	158.7	142.2	127.5	115.8	114.0	116.4	115.8
150°	169.8	164.3	156.9	143.4	126.9	117.1	110.9	111.5	115.8	116.4
152.5°	144.0	141.0	136.1	127.5	115.8	110.9	107.9	110.3	113.4	114.0
155°	128.1	126.3	125.0	119.5	112.2	109.1	107.9	109.7	112.8	113.4
157.5°	126.9	122.6	120.7	117.1	111.5	108.5	108.5	110.3	112.2	112.8
160°	123.2	117.7	117.1	113.4	112.2	110.3	111.5	112.2	114.0	113.4
162.5°	120.1	116.4	115.8	113.4	114.6	116.4	116.4	117.1	118.3	117.7
165°	118.9	115.8	115.2	115.2	118.9	122.0	122.6	122.0	122.0	122.0
167.5°	120.1	118.3	117.7	118.9	122.0	125.6	126.3	125.0	123.8	123.2
170°	122.0	121.3	122.0	122.6	124.4	126.9	126.9	125.6	125.6	125.6
172.5°	123.8	125.0	125.6	125.6	127.5	128.7	129.3	128.7	128.7	128.7
175°	127.5	128.1	128.1	128.7	130.5	131.8	133.0	133.0	133.0	133.0
177.5°	131.8	131.8	131.8	132.4	133.0	134.8	135.4	136.7	137.3	137.3
180°	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4

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: SP1-2501-332-4

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

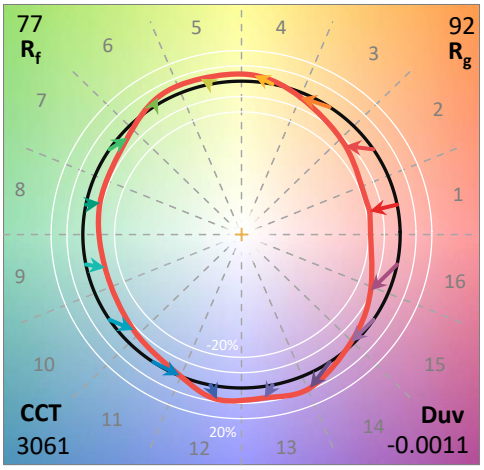
Test Information

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

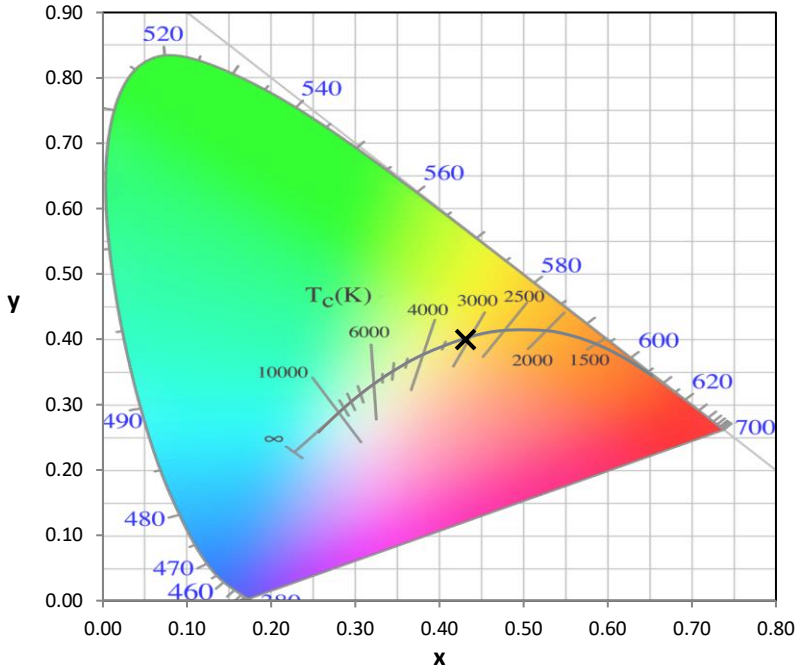
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

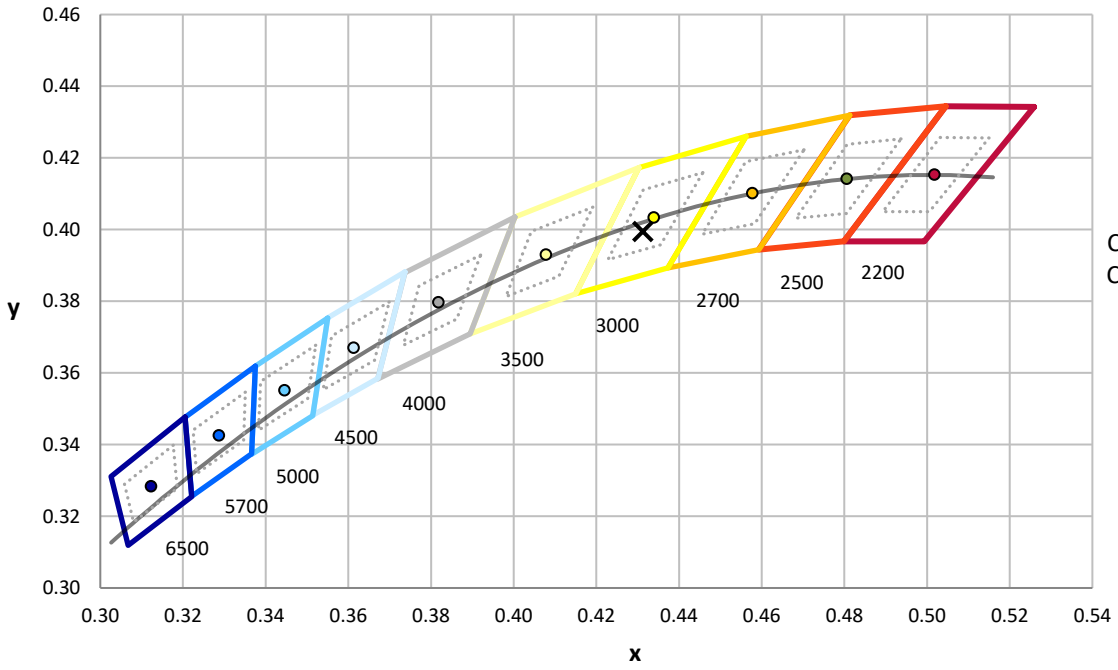
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

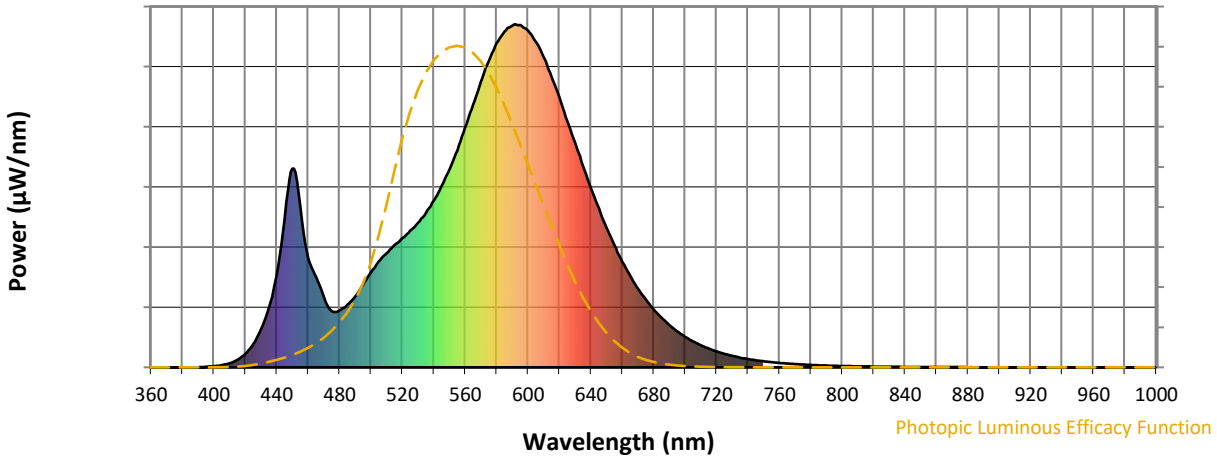


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

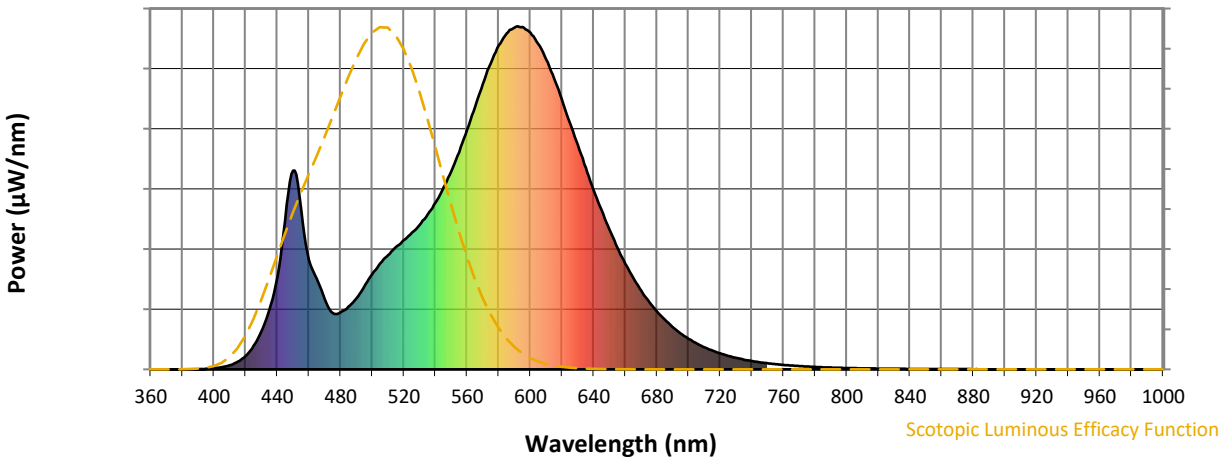


Photopic Lumens: NR

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

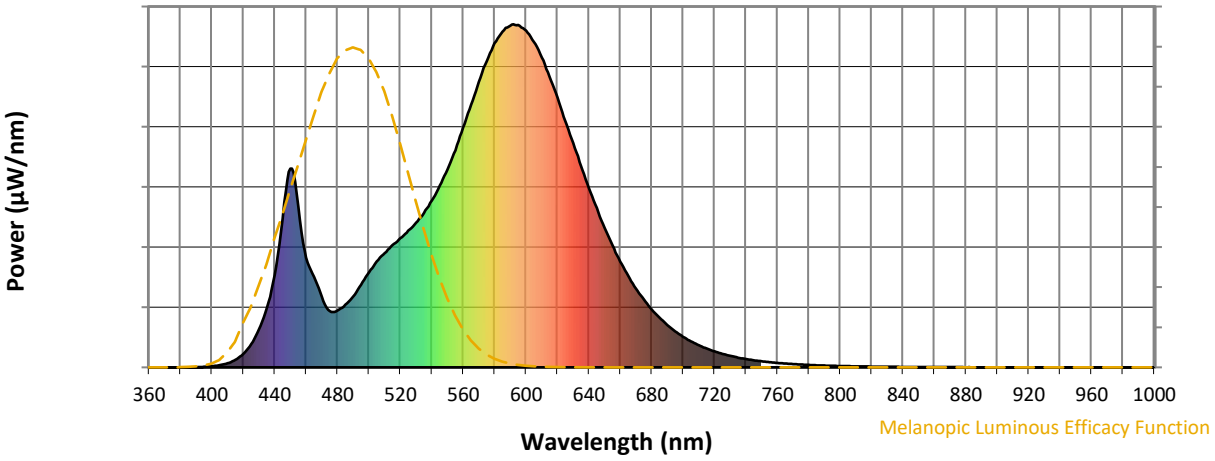


Scotopic Lumens: NR **S/P: 1.29**

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			

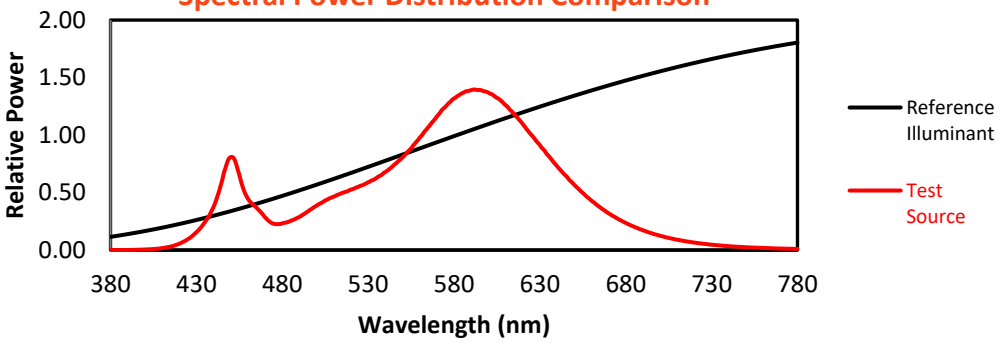
REPORT NUMBER: SP1-2501-332-4

TM-30-18

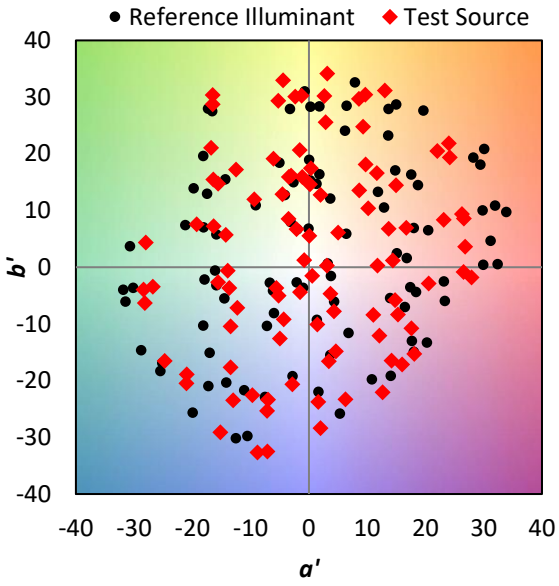
Summary

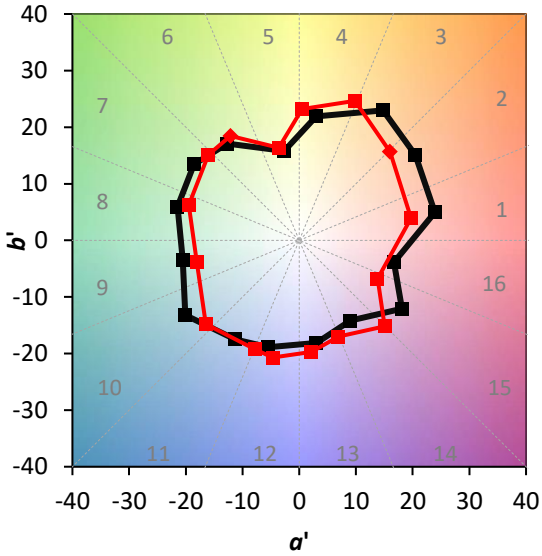
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

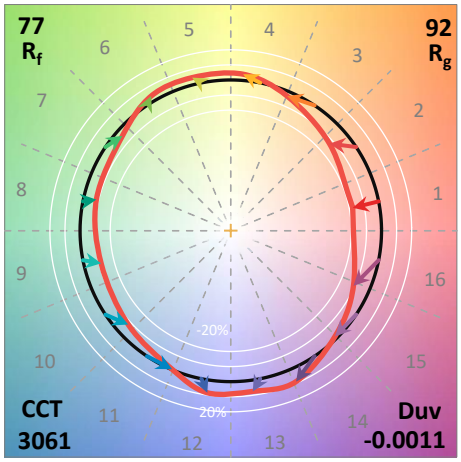
Spectral Power Distribution Comparison

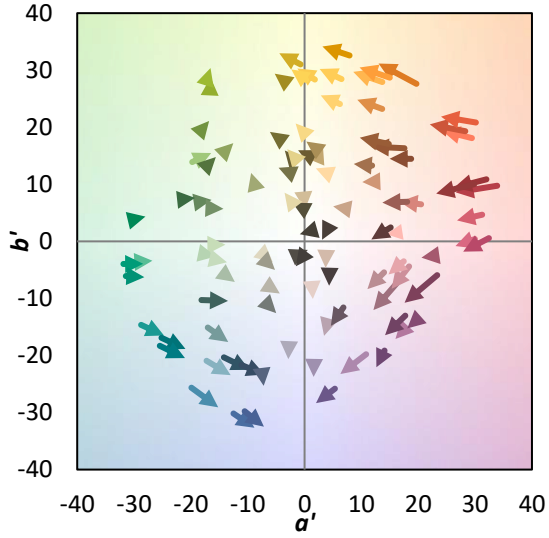


Color Vector Graphics







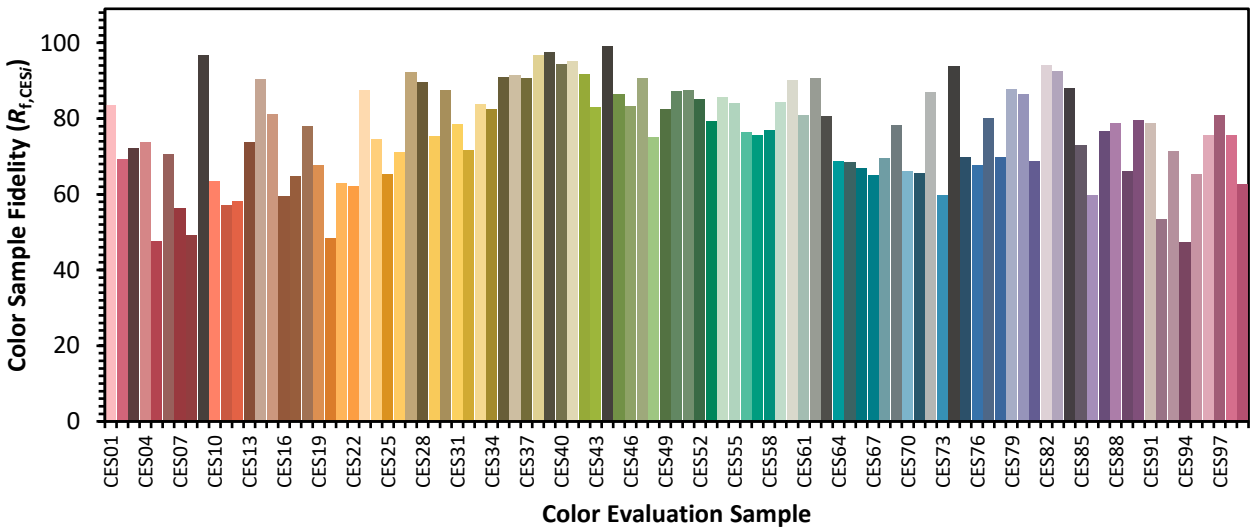


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

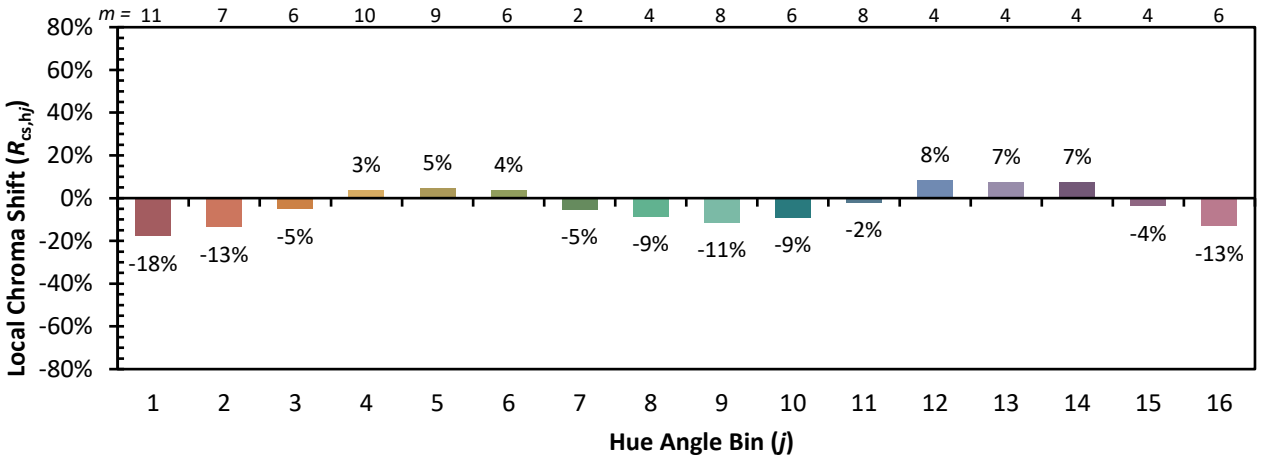
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

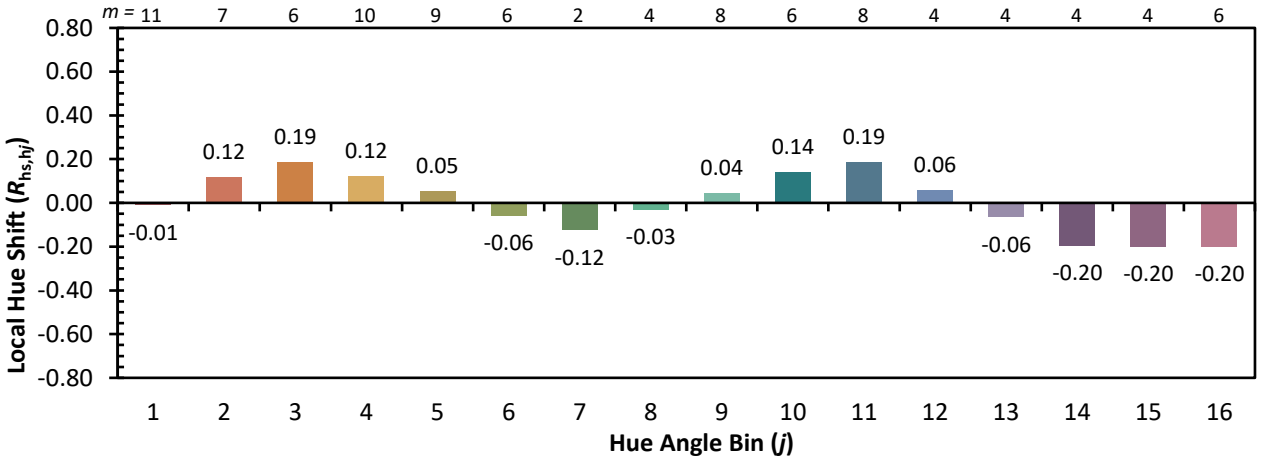


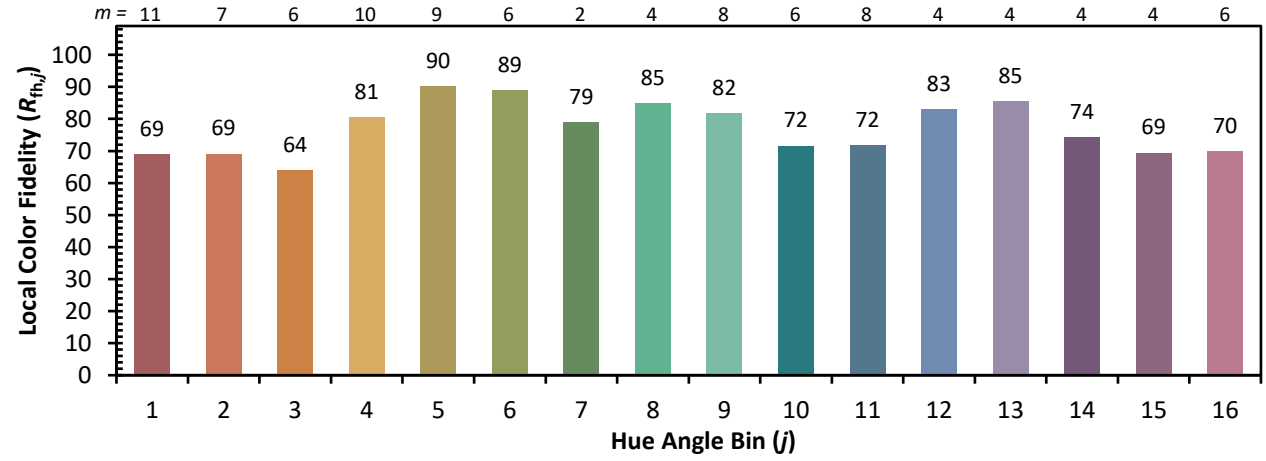
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Color Rendition by Hue-Angle Bin



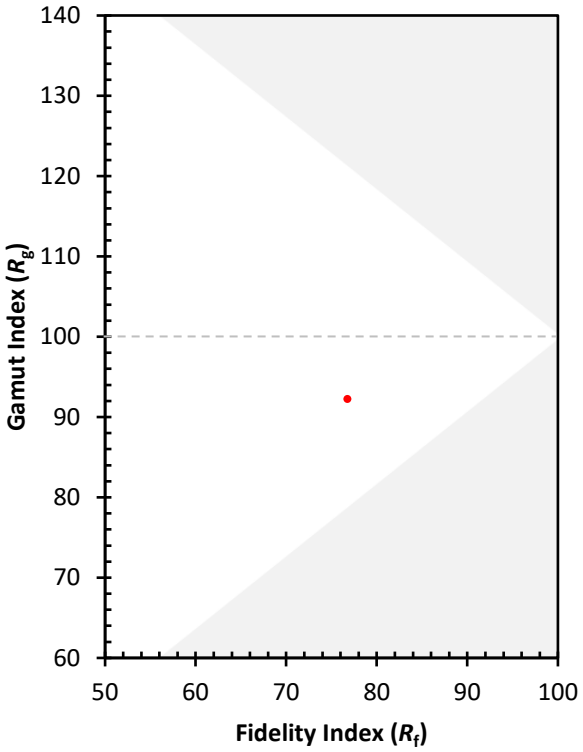


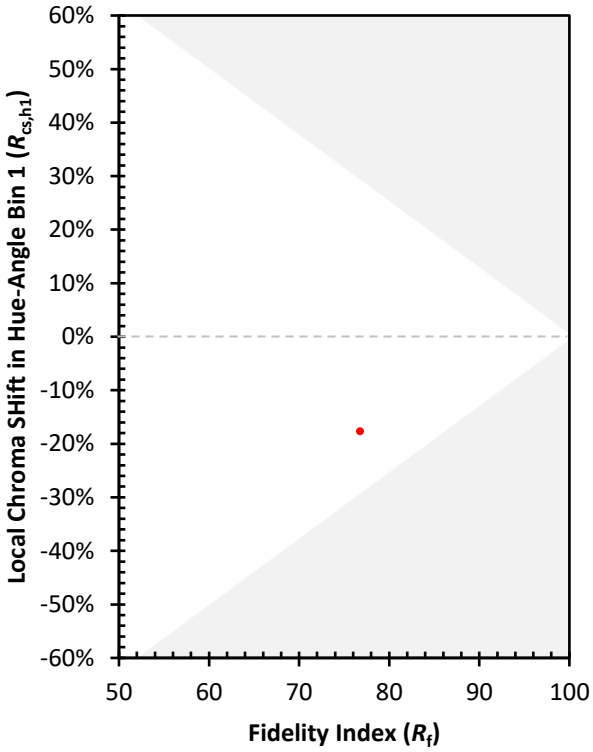


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Measure Comparisons





(END OF REPORT)