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: P1046238

Luminaire Tested: **FFX-CLB-80-727-U-FR-T4-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046238
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-727-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10610.3 lumens
Efficiency:	N/A
Efficacy:	129.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U4 - G4

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

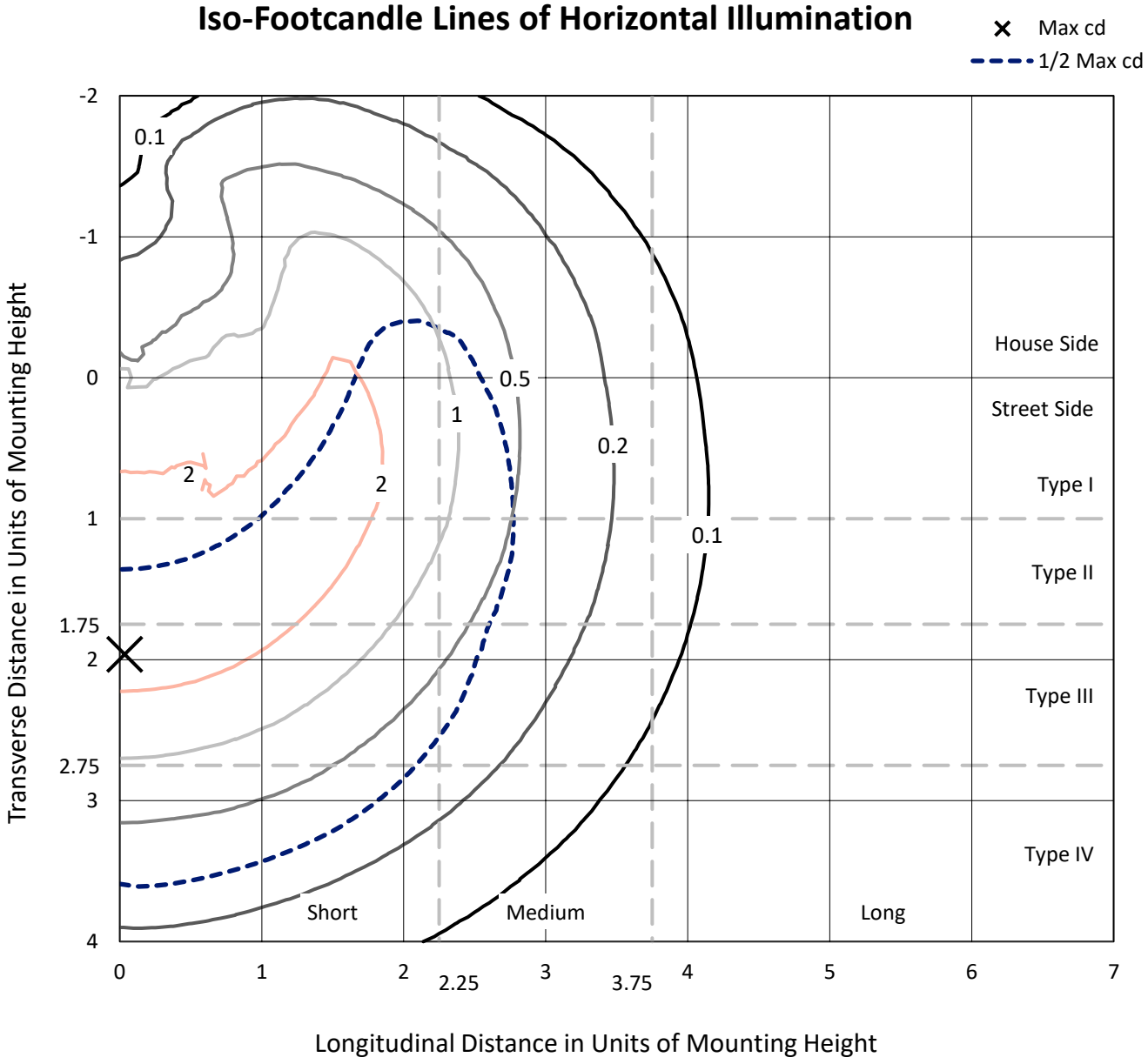


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Iso-Footcandle Lines of Horizontal Illumination



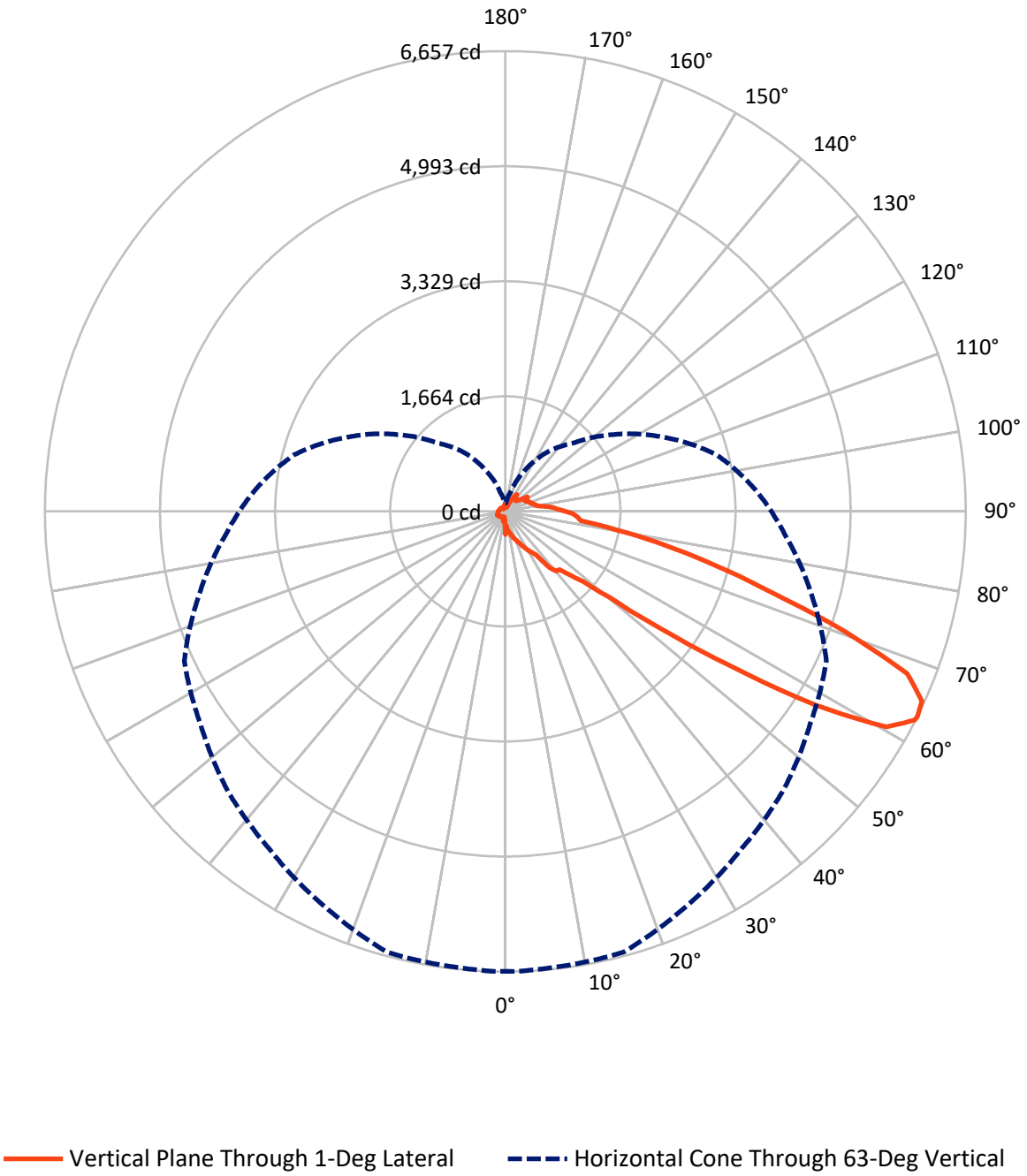
Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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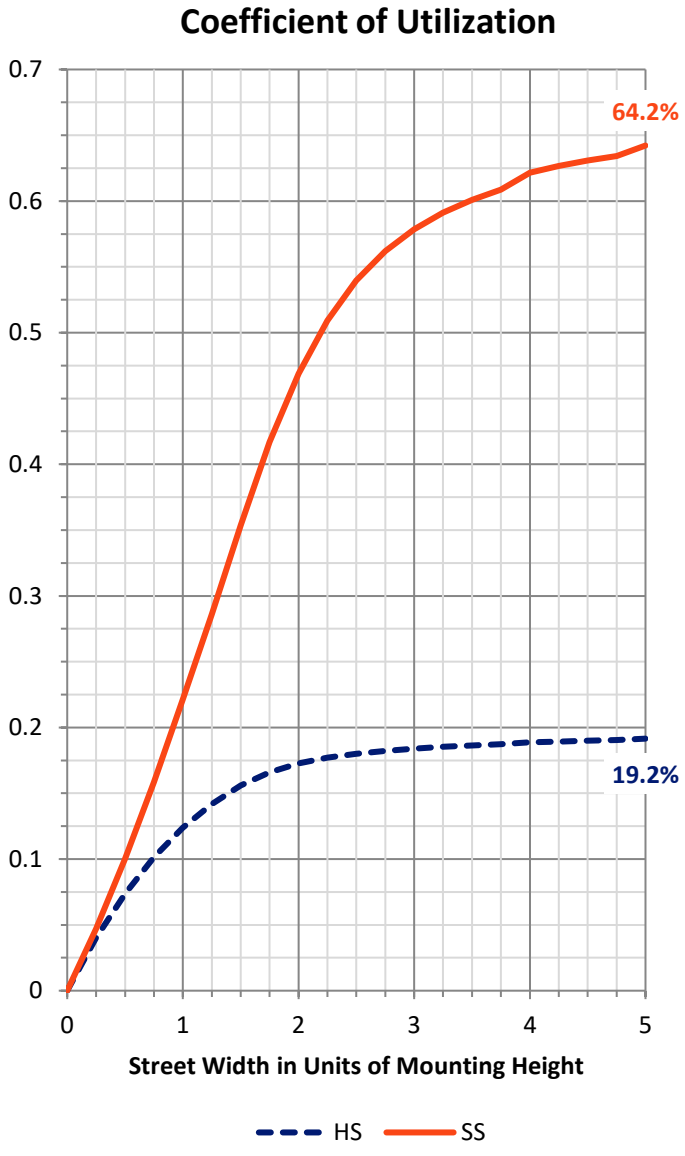
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2100.8	420.8	2521.6
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	7117.1	971.5	8088.7
	% Fixture	67.1	9.2	76.2
Total	Lumens	9217.9	1392.4	10610.3
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	0.2
10°-20°	69.8	0.7
20°-30°	153.9	1.5
30°-40°	315.1	3.0
40°-50°	636.2	6.0
50°-60°	2053.8	19.4
60°-70°	3383.6	31.9
70°-80°	1865.2	17.6
80°-90°	720.6	6.8
90°-100°	432.0	4.1
100°-110°	275.2	2.6
110°-120°	210.5	2.0
120°-130°	179.6	1.7
130°-140°	120.4	1.1
140°-150°	102.6	1.0
150°-160°	46.7	0.4
160°-170°	18.9	0.2
170°-180°	6.4	0.1
0°-90°	9217.9	86.9
0°-180°	10610.3	100.0



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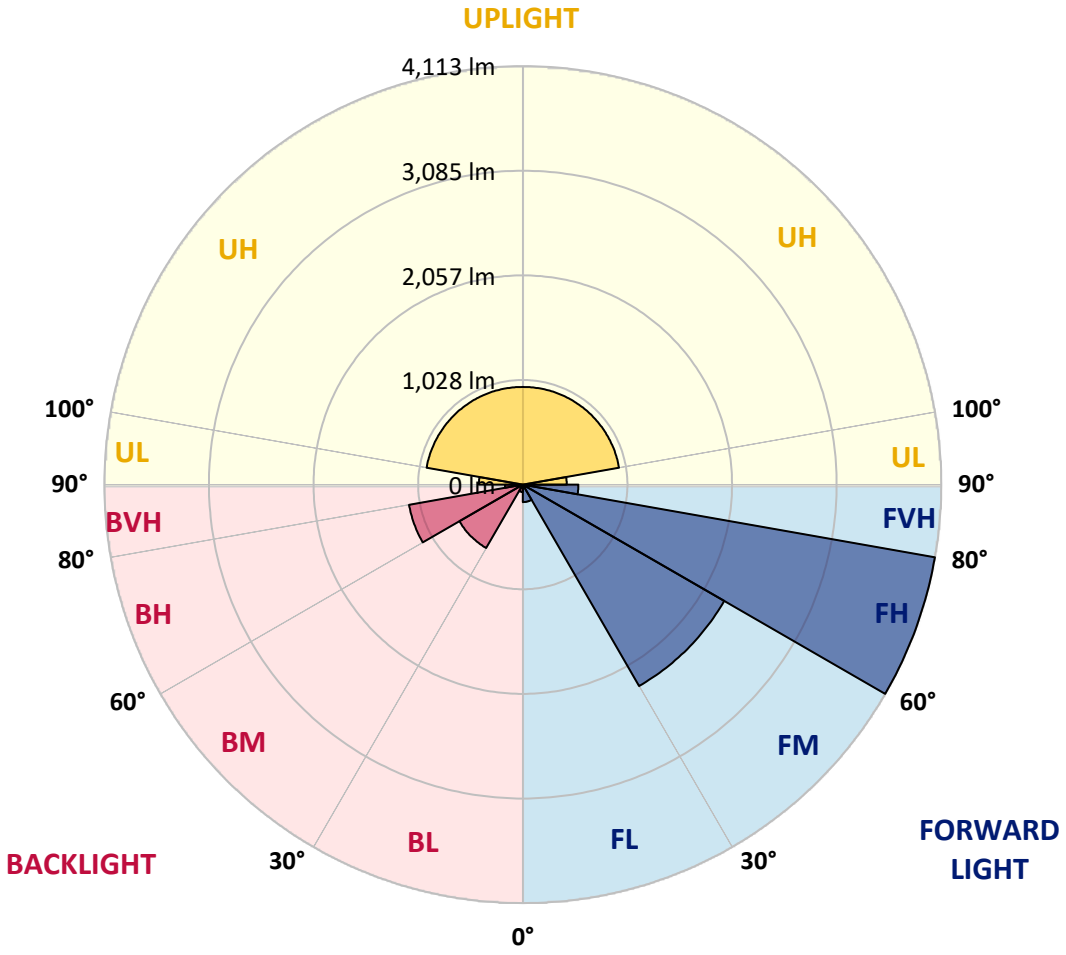
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	171.9	1.6			
FM	(30°-60°)	2285.9	21.5			
FH	(60°-80°)	4113.4	38.8			G2/5000
FVH	(80°-90°)	546.0	5.1			G4/750
BL	(0°-30°)	71.6	0.7	B0/110		
BM	(30°-60°)	719.2	6.8	B1/1000		
BH	(60°-80°)	1135.4	10.7	B3/2500		G3/2500
BVH	(80°-90°)	174.6	1.6			G2/225
UL	(90°-100°)	432.0	4.1		U3/500	
UH	(100°-180°)	960.3	9.1		U4/1000	

BUG Rating: B3-U4-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9
2.5°	207.6	205.3	215.1	245.3	278.5	289.1	267.2	258.9	283.0	338.9	344.9
5°	239.3	243.0	240.8	244.5	247.6	271.0	292.1	270.2	218.9	178.9	181.9
7.5°	282.3	281.5	281.5	278.5	263.4	239.3	232.5	249.8	250.6	209.8	178.1
10°	301.2	300.4	300.4	297.4	294.4	296.6	289.1	257.4	231.7	215.1	204.5
12.5°	341.2	339.6	338.9	337.4	332.1	326.1	320.8	322.3	300.4	258.9	231.7
15°	374.4	372.9	374.4	375.9	372.1	361.5	346.4	325.3	305.7	288.3	264.2
17.5°	410.6	409.8	409.1	407.6	402.3	387.9	369.8	350.2	328.3	304.2	281.5
20°	445.3	443.8	444.6	445.3	443.0	425.7	407.6	383.4	360.0	336.6	310.2
22.5°	486.8	486.8	484.6	484.6	482.3	471.7	449.1	421.2	397.0	367.6	338.1
25°	540.4	538.1	538.1	535.9	526.8	515.5	499.7	468.0	439.3	411.3	372.1
27.5°	593.2	591.0	591.0	590.2	578.9	563.8	537.4	507.2	480.0	444.6	397.0
30°	653.6	652.1	652.9	644.6	635.5	614.4	581.2	546.5	511.0	469.5	423.4
32.5°	714.8	710.2	709.5	700.4	688.3	662.7	625.7	592.5	555.5	507.2	468.7
35°	786.5	776.7	787.2	785.0	783.4	756.3	714.0	675.5	631.7	588.0	546.5
37.5°	1023.5	1028.0	1025.7	995.5	971.4	934.4	915.5	870.2	809.9	756.3	677.8
40°	1135.2	1133.7	1129.9	1096.7	1074.8	1036.3	1006.1	972.1	936.7	852.9	755.5
42.5°	1159.3	1151.0	1157.1	1188.0	1216.7	1191.0	1095.2	985.7	935.9	877.0	826.5
45°	1335.9	1314.8	1323.9	1332.2	1304.2	1267.3	1225.7	1154.8	1071.0	986.5	893.6
47.5°	1524.6	1513.3	1512.5	1509.5	1512.5	1477.1	1422.0	1356.3	1237.8	1146.5	1043.1
50°	1984.3	1969.2	1973.7	1977.5	1961.6	1925.4	1865.8	1822.8	1680.9	1505.8	1371.4
52.5°	2827.4	2818.3	2797.2	2798.7	2656.0	2648.5	2567.7	2529.2	2320.1	2120.1	1849.2
55°	3868.2	3927.0	3862.1	3849.3	3790.4	3737.6	3535.3	3367.8	3068.1	2780.6	2462.8
57.5°	5278.1	5287.9	5205.6	5207.9	4998.8	4866.0	4679.5	4422.9	3976.9	3561.7	3205.5
60°	6305.3	6330.2	6291.7	6211.7	5807.2	5569.4	5364.1	5161.8	4821.4	4204.8	3708.9
62.5°	6639.7	6647.2	6623.1	6580.8	6223.8	5920.4	5656.2	5362.6	5101.5	4546.0	4047.8
63°	6651.7	6657.0	6638.2	6601.9	6270.6	5955.9	5691.7	5377.7	5121.8	4576.1	4068.2
65°	6619.3	6621.6	6613.3	6564.9	6300.0	5967.2	5676.6	5367.1	5132.4	4588.2	4068.2
67.5°	6327.2	6269.8	6294.0	6212.5	5992.1	5660.7	5383.0	5067.5	4856.2	4330.1	3831.9
70°	5205.6	5209.4	5205.6	5161.1	5098.4	4836.5	4512.0	4228.2	3961.0	3548.2	3157.2
72.5°	4027.4	4043.3	4008.6	4034.2	3983.7	3767.0	3557.2	3269.6	3081.7	2731.5	2386.6
75°	3119.4	3151.9	3162.5	3089.3	3045.5	2999.4	2884.7	2677.9	2490.0	2219.0	1917.9
77.5°	2357.1	2363.2	2372.2	2322.4	2265.1	2283.2	2266.6	2168.4	2010.7	1811.4	1572.2
80°	1628.8	1646.1	1675.6	1646.9	1653.7	1643.1	1640.9	1562.4	1448.4	1323.1	1194.8
82.5°	1094.4	1093.7	1101.2	1147.2	1189.5	1188.0	1120.8	1010.6	952.5	916.3	843.8
85°	1047.6	1047.6	1058.2	1025.0	1003.8	982.7	978.2	940.4	895.9	814.4	714.0
87.5°	976.7	974.4	977.4	948.7	920.8	914.0	907.2	874.8	855.1	784.2	692.1
90°	835.5	841.6	841.6	839.3	821.9	815.1	788.0	760.8	748.7	684.6	612.1
92.5°	737.4	737.4	745.7	731.4	712.5	723.1	676.3	640.8	624.2	581.2	523.8
95°	666.5	664.2	674.8	654.4	640.8	621.2	601.5	564.6	552.5	515.5	457.4
97.5°	532.1	529.8	535.9	526.1	504.9	495.9	474.7	445.3	434.0	399.3	363.8
100°	458.1	457.4	459.7	454.4	442.3	431.0	412.9	389.5	378.9	350.2	318.5
102.5°	434.7	432.5	433.2	434.0	416.6	406.1	388.7	370.6	360.0	336.6	301.9
105°	413.6	412.1	410.6	410.6	391.0	380.4	369.1	357.0	347.9	322.3	289.1
107.5°	394.0	391.7	386.4	385.7	372.9	361.5	347.9	337.4	328.3	304.9	273.2

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	372.1	*371.3*	368.3	369.1	360.8	343.4	332.1	319.3	307.9	287.6	259.6
112.5°	360.8	*360.8*	358.5	362.3	330.6	313.2	301.2	289.8	282.3	262.7	241.5
115°	348.7	*342.7*	340.4	347.9	311.7	287.6	275.5	263.4	255.9	236.2	218.9
117.5°	323.0	*321.5*	322.3	328.3	317.8	291.3	271.7	256.6	249.1	234.7	218.9
120°	368.3	*366.8*	357.8	356.2	338.1	317.0	304.2	295.9	284.5	261.1	231.0
122.5°	384.9	*381.9*	367.6	372.1	347.9	337.4	332.1	329.1	318.5	287.6	241.5
125°	335.1	*330.6*	326.8	328.3	314.7	301.2	295.9	291.3	280.8	263.4	230.2
127.5°	268.7	*271.0*	267.9	259.6	257.4	237.0	230.2	224.9	215.1	200.8	195.5
130°	252.1	*250.6*	249.8	248.3	246.8	231.7	221.1	208.3	200.0	187.9	173.6
132.5°	224.2	*225.7*	227.9	240.8	252.8	240.0	212.8	193.2	187.9	190.2	184.2
135°	212.8	*213.6*	213.6	223.4	234.0	221.1	200.8	181.9	179.6	187.9	180.4
137.5°	218.1	*221.9*	221.1	218.9	212.8	203.8	199.3	188.7	182.7	177.4	164.5
140°	230.2	*234.7*	232.5	219.6	215.1	210.6	213.6	209.8	194.7	176.6	157.7
142.5°	228.7	*232.5*	231.0	229.4	237.8	227.2	212.8	198.5	186.4	176.6	164.5
145°	296.6	*295.1*	289.1	289.1	279.3	263.4	253.6	238.5	224.2	211.3	191.7
147.5°	274.0	*277.8*	279.3	272.5	267.9	257.4	255.9	247.6	243.0	231.7	211.3
150°	217.4	*220.4*	215.9	210.6	208.3	209.1	205.3	199.3	194.7	186.4	177.4
152.5°	150.2	*151.7*	150.2	145.7	144.2	141.9	142.7	138.1	135.1	129.8	121.5
155°	136.6	*137.4*	138.1	130.6	129.1	129.8	130.6	127.6	121.5	117.0	107.2
157.5°	107.2	*105.7*	105.7	104.2	104.9	102.6	102.6	101.9	99.6	96.6	93.6
160°	85.3	*86.0*	86.0	86.0	87.6	86.0	86.0	83.8	83.8	82.3	80.8
162.5°	72.5	*72.5*	72.5	72.5	71.7	71.7	73.2	72.5	72.5	73.2	74.7
165°	61.1	*61.9*	61.9	61.9	61.9	61.9	63.4	63.4	64.9	67.9	71.7
167.5°	57.4	*56.6*	56.6	57.4	57.4	58.9	58.9	61.9	67.2	72.5	72.5
170°	54.3	*54.3*	54.3	55.1	55.1	55.9	58.1	63.4	69.4	71.7	68.7
172.5°	56.6	*55.9*	55.9	56.6	56.6	58.9	61.9	66.4	68.7	68.7	65.7
175°	58.1	*57.4*	57.4	58.1	58.1	59.6	62.6	65.7	67.2	67.9	67.9
177.5°	56.6	*56.6*	56.6	56.6	56.6	57.4	57.4	59.6	61.1	62.6	64.2
180°	54.3	*54.3*	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9
2.5°	344.9	314.7	270.2	215.9	251.3	295.1	289.1	255.1	203.8	153.2	153.2
5°	191.0	202.3	213.6	187.2	167.6	166.0	161.5	144.9	142.7	117.7	111.0
7.5°	166.8	156.2	154.0	181.9	179.6	118.5	93.6	83.0	87.6	118.5	122.3
10°	200.0	195.5	181.1	151.0	126.0	114.7	114.0	115.5	105.7	85.3	80.0
12.5°	225.7	218.1	205.3	196.2	167.6	133.6	114.7	106.4	112.5	142.7	149.4
15°	250.6	240.0	218.1	193.2	164.5	139.6	120.0	102.6	102.6	98.1	95.9
17.5°	270.2	256.6	230.2	203.0	170.6	139.6	114.0	96.6	88.3	86.8	86.8
20°	295.1	282.3	253.6	220.4	179.6	141.1	113.2	96.6	86.8	83.0	82.3
22.5°	326.1	309.5	272.5	233.2	184.9	142.7	114.7	97.4	87.6	82.3	80.8
25°	354.7	335.9	292.1	251.3	197.0	146.4	116.2	99.6	89.1	83.0	82.3
27.5°	378.1	357.8	317.0	270.2	209.8	155.5	123.8	104.2	91.3	85.3	83.8
30°	404.6	385.7	342.7	289.8	221.9	166.8	134.3	112.5	98.1	89.8	89.1
32.5°	443.8	420.4	370.6	310.2	236.2	178.9	144.9	120.0	102.6	98.1	98.1
35°	514.7	490.6	424.9	343.4	249.8	191.0	155.5	128.3	109.4	98.9	98.1
37.5°	647.6	614.4	532.1	418.9	273.2	200.8	164.5	135.1	113.2	98.1	95.9
40°	708.7	652.1	564.6	458.9	307.2	212.1	172.1	140.4	114.0	100.4	98.9
42.5°	781.2	733.6	609.9	468.7	332.1	240.0	184.9	146.4	118.5	103.4	101.9
45°	850.6	804.6	700.4	554.0	387.9	281.5	207.6	158.5	126.0	107.9	104.9
47.5°	976.7	928.4	783.4	641.6	464.9	346.4	252.8	177.4	136.6	112.5	108.7
50°	1304.2	1235.6	1065.0	849.9	594.8	440.0	323.8	216.6	151.0	114.7	110.2
52.5°	1726.9	1622.0	1437.1	1162.3	850.6	622.7	453.6	314.7	175.9	115.5	108.7
55°	2412.2	2283.2	1985.8	1584.3	1191.0	929.1	686.8	483.8	258.9	120.8	107.9
57.5°	3062.1	2966.2	2706.6	2167.7	1579.7	1180.5	903.5	680.8	352.5	132.8	113.2
60°	3539.8	3357.2	3053.8	2501.3	1908.0	1369.9	1005.3	708.0	362.3	135.1	117.0
62.5°	3825.2	3599.5	3149.6	2549.6	1954.8	1409.1	1046.1	651.4	292.8	132.1	122.3
63°	*3846.3*	*3627.4*	*3161.7*	*2533.0*	*1939.7*	*1398.6*	*1040.1*	*637.8*	*284.5*	*131.3*	*123.8*
65°	3819.9	3629.7	3119.4	2446.2	1811.4	1305.0	968.4	572.9	231.0	129.1	125.3
67.5°	3557.2	3402.5	2898.3	2211.5	1612.9	1126.9	801.6	437.0	180.4	123.0	121.5
70°	2977.5	2800.2	2342.8	1828.0	1278.6	910.2	639.3	338.9	148.7	117.0	115.5
72.5°	2216.0	2142.0	1779.7	1391.0	983.5	701.9	480.0	257.4	132.1	112.5	111.0
75°	1791.8	1680.9	1411.4	1098.9	748.0	521.5	356.2	193.2	120.8	108.7	107.2
77.5°	1481.6	1407.6	1174.4	829.5	533.6	375.9	261.9	153.2	115.5	106.4	105.7
80°	1147.2	1101.2	916.3	613.6	381.9	280.0	207.6	140.4	113.2	105.7	104.9
82.5°	809.1	794.8	667.2	458.9	324.5	250.6	193.2	138.1	114.0	107.2	105.7
85°	670.2	639.3	561.5	436.3	307.9	240.0	186.4	135.9	114.0	106.4	105.7
87.5°	652.9	627.2	543.4	408.3	282.3	221.9	175.1	130.6	110.2	103.4	102.6
90°	590.2	564.6	486.8	364.6	265.7	208.3	163.8	123.8	105.7	100.4	98.9
92.5°	503.4	480.0	422.7	331.3	254.4	200.0	159.3	121.5	104.9	98.9	98.1
95°	437.0	417.4	370.6	304.9	234.7	186.4	151.0	117.0	101.9	96.6	95.9
97.5°	347.9	335.9	299.6	248.3	198.5	163.0	135.1	110.2	98.1	93.6	92.8
100°	306.4	295.9	267.2	224.9	184.2	154.0	130.6	107.9	95.1	91.3	90.6
102.5°	287.6	279.3	253.6	211.3	172.8	146.4	124.5	104.2	92.8	89.1	88.3
105°	273.2	265.7	242.3	201.5	163.0	136.6	117.0	99.6	89.1	86.0	85.3
107.5°	255.9	249.8	227.2	187.2	153.2	128.3	111.0	95.9	86.8	83.8	83.8

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

Scaled Data Report

REPORT NUMBER: P1046238
CATALOG NUMBER: FFX-CLB-80-727-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	241.5	237.0	213.6	178.9	146.4	123.0	107.2	94.3	86.0	83.0	83.0
112.5°	226.4	221.1	199.3	168.3	140.4	119.3	104.2	92.1	84.5	81.5	81.5
115°	209.8	204.5	183.4	156.2	132.8	113.2	99.6	88.3	81.5	79.3	79.3
117.5°	212.8	199.3	173.6	149.4	126.8	108.7	96.6	86.8	79.3	77.7	77.0
120°	215.9	198.5	179.6	157.0	130.6	106.4	94.3	84.5	78.5	76.2	76.2
122.5°	210.6	212.8	196.2	161.5	124.5	104.2	93.6	85.3	79.3	77.0	77.7
125°	206.1	211.3	191.7	152.5	120.0	103.4	93.6	87.6	82.3	80.0	80.0
127.5°	189.4	190.2	163.0	136.6	117.0	101.1	92.8	88.3	83.8	80.8	79.3
130°	166.8	165.3	152.5	132.8	110.2	97.4	89.8	87.6	83.0	77.7	77.0
132.5°	178.9	174.4	153.2	126.0	104.2	93.6	89.1	86.0	78.5	72.5	71.7
135°	169.8	165.3	143.4	117.7	101.1	95.1	92.8	85.3	74.0	69.4	68.7
137.5°	154.7	147.2	129.1	112.5	102.6	98.9	93.6	83.8	72.5	67.2	66.4
140°	148.7	141.1	126.8	115.5	104.2	92.1	83.0	74.0	66.4	61.9	61.1
142.5°	156.2	150.2	135.9	115.5	97.4	84.5	76.2	70.2	63.4	56.6	55.9
145°	181.9	170.6	151.0	129.8	111.0	95.9	83.0	70.2	58.1	50.6	49.8
147.5°	201.5	192.5	171.3	147.2	120.8	96.6	77.7	61.9	52.1	47.6	46.8
150°	167.6	162.3	146.4	126.8	107.2	85.3	67.2	55.1	49.1	47.6	47.6
152.5°	117.0	113.2	107.9	95.1	80.0	67.2	57.4	51.3	49.1	48.3	48.3
155°	103.4	101.1	94.3	83.0	72.5	62.6	55.1	50.6	49.8	49.1	49.1
157.5°	89.1	88.3	83.8	74.7	66.4	58.9	53.6	51.3	49.8	49.1	49.1
160°	80.0	77.7	73.2	67.2	61.9	57.4	54.3	52.8	51.3	50.6	50.6
162.5°	74.7	73.2	67.9	63.4	60.4	59.6	60.4	59.6	55.9	53.6	52.8
165°	70.9	70.2	64.9	61.9	60.4	64.2	68.7	67.2	60.4	56.6	56.6
167.5°	70.9	69.4	64.2	61.9	65.7	70.9	74.7	74.0	67.9	64.2	61.9
170°	67.2	65.7	64.2	64.9	70.2	72.5	73.2	74.7	75.5	79.3	80.8
172.5°	64.9	64.9	66.4	69.4	74.0	74.7	72.5	73.2	80.0	88.3	89.1
175°	67.9	67.9	70.9	76.2	78.5	80.0	77.0	77.7	85.3	93.6	94.3
177.5°	64.9	65.7	67.2	67.9	67.2	64.9	64.2	67.2	64.9	64.2	66.4
180°	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

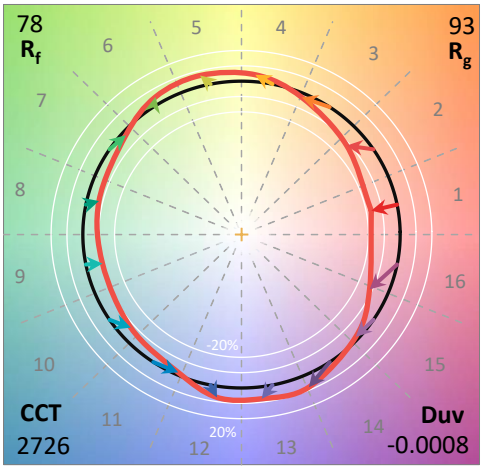
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

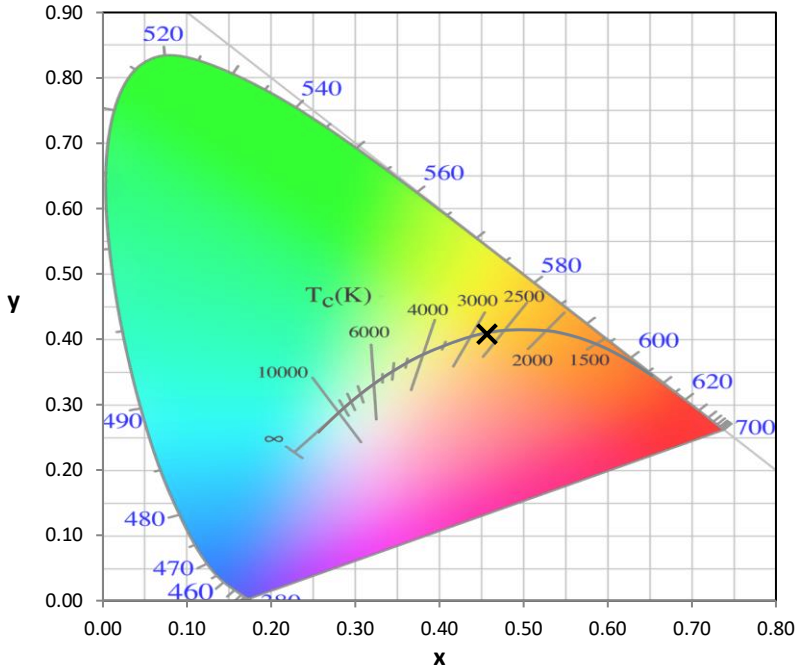
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

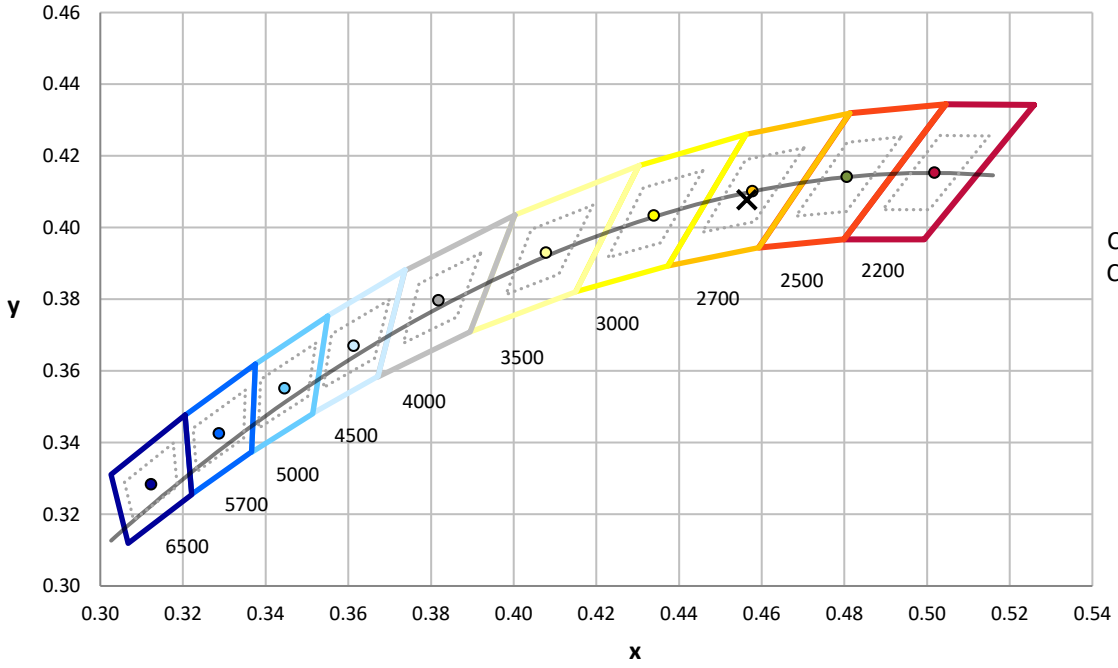
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

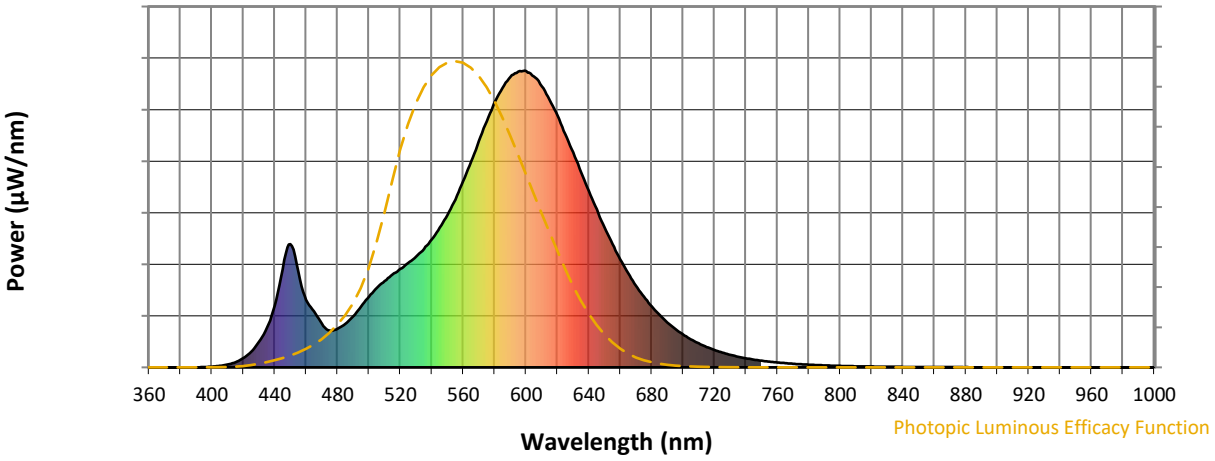


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

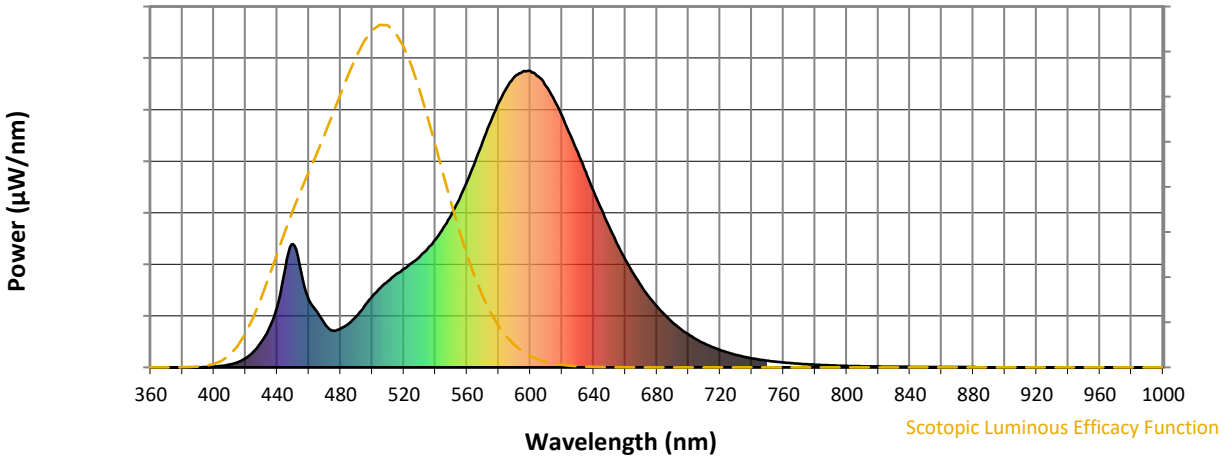


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

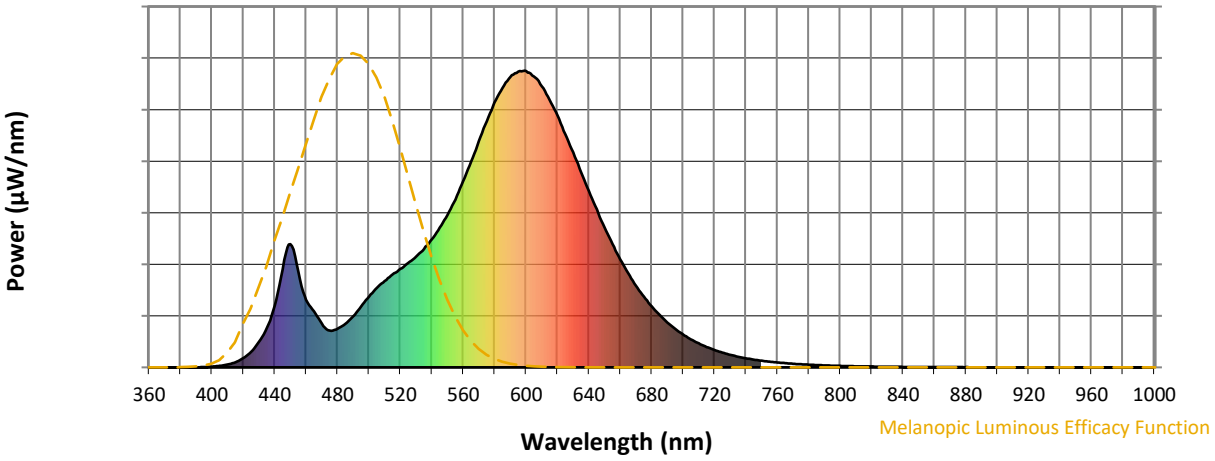


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

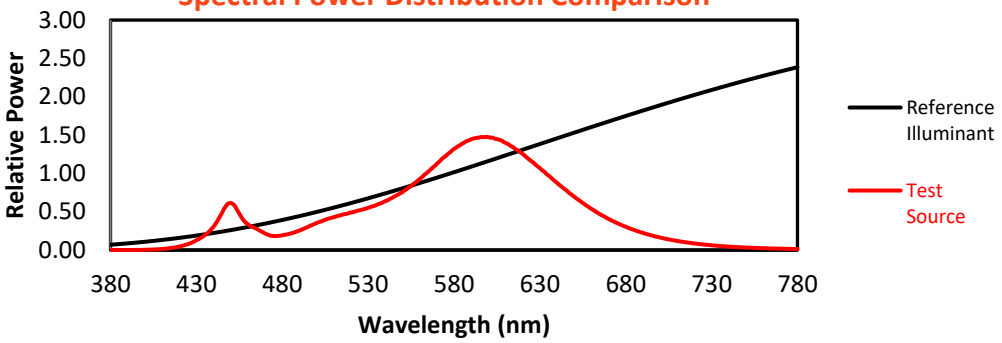
REPORT NUMBER: SP1-2501-332-3

TM-30-18

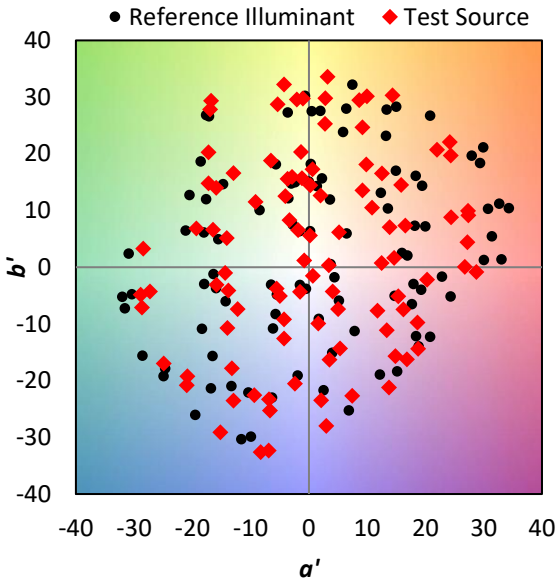
Summary

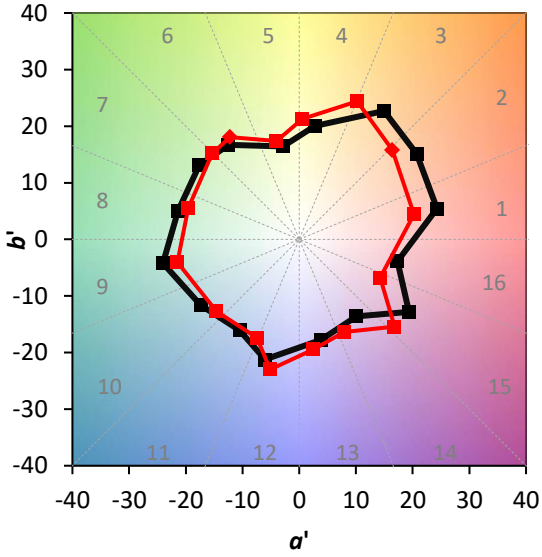
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

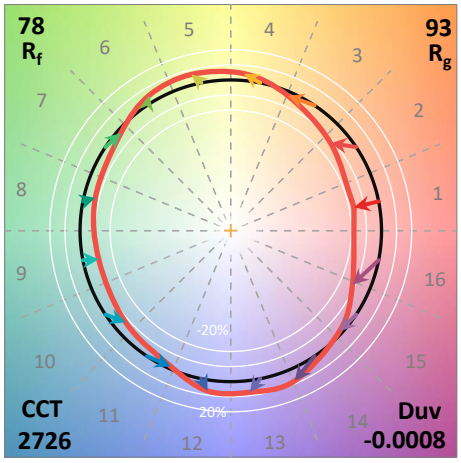
Spectral Power Distribution Comparison

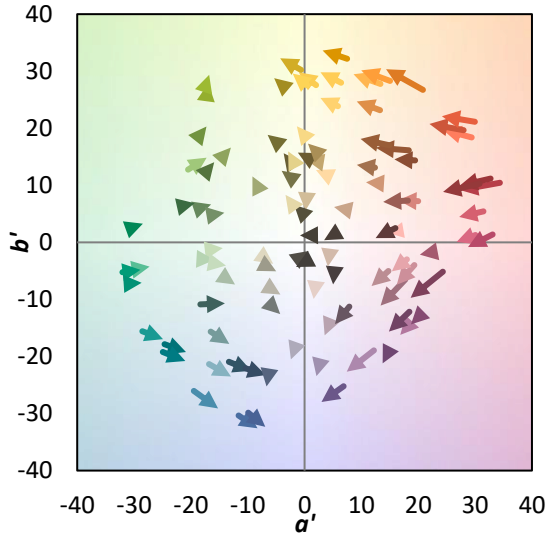


Color Vector Graphics







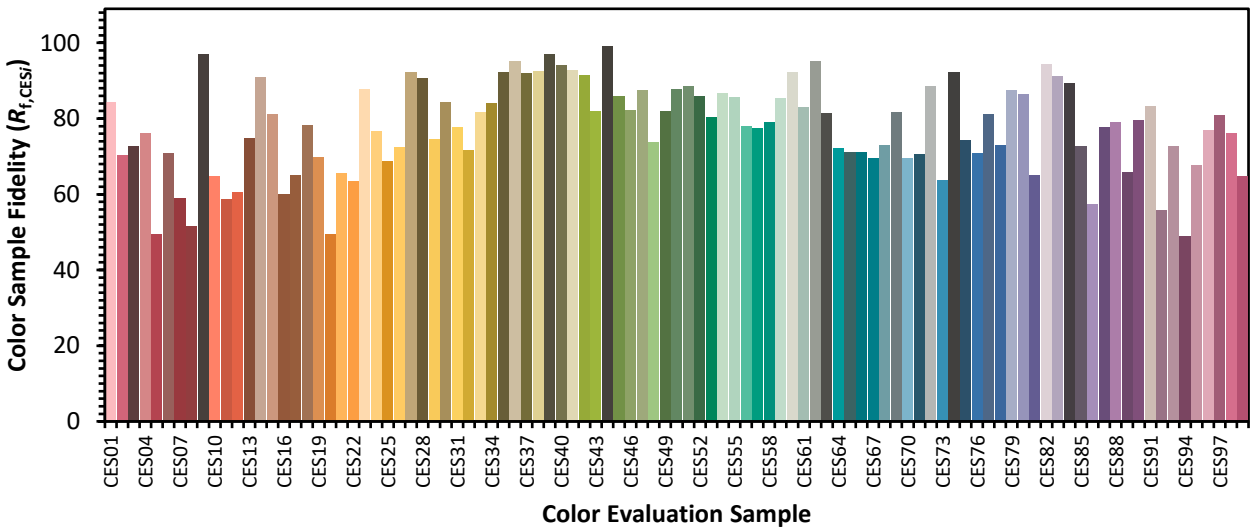


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

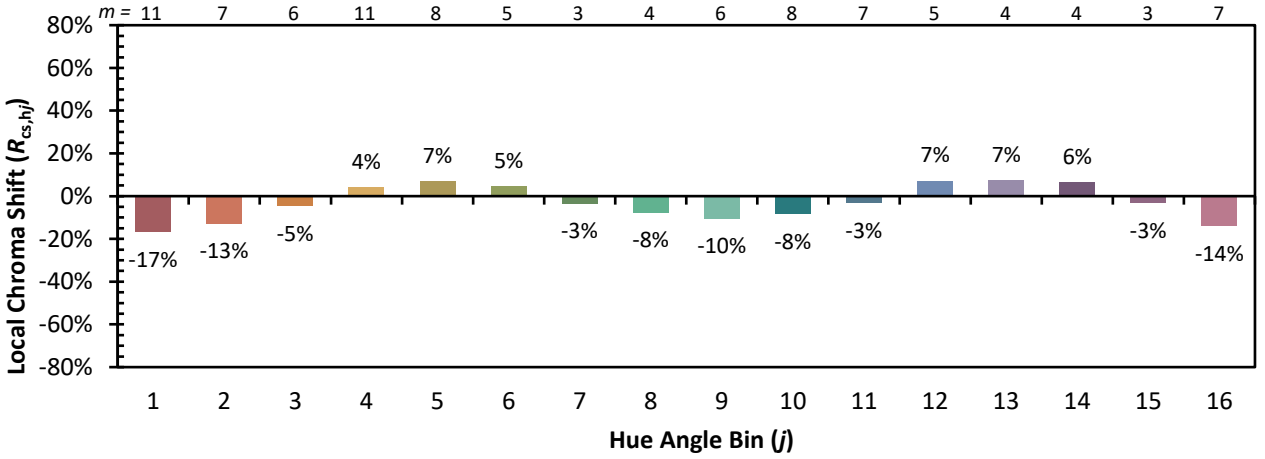
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

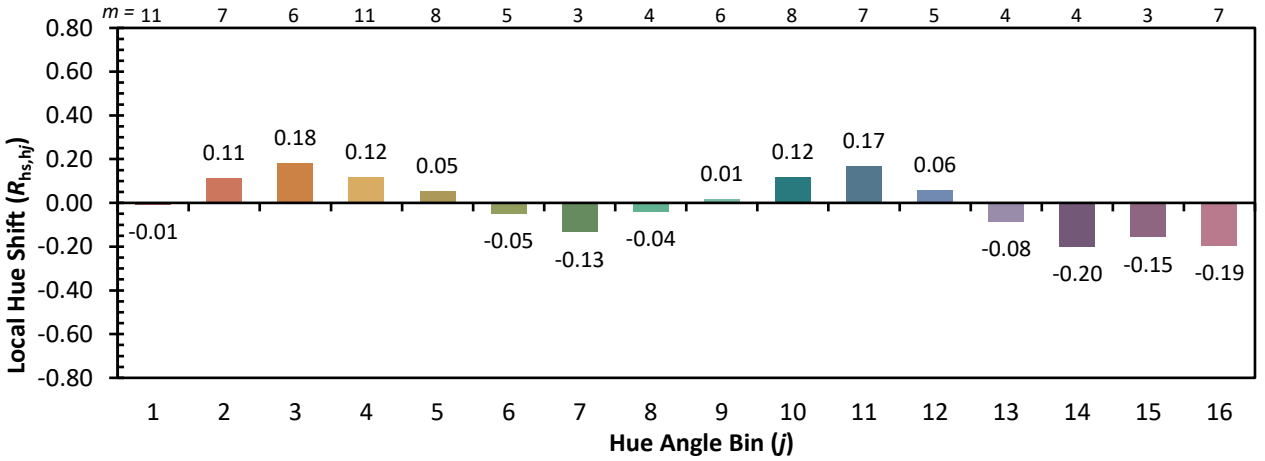


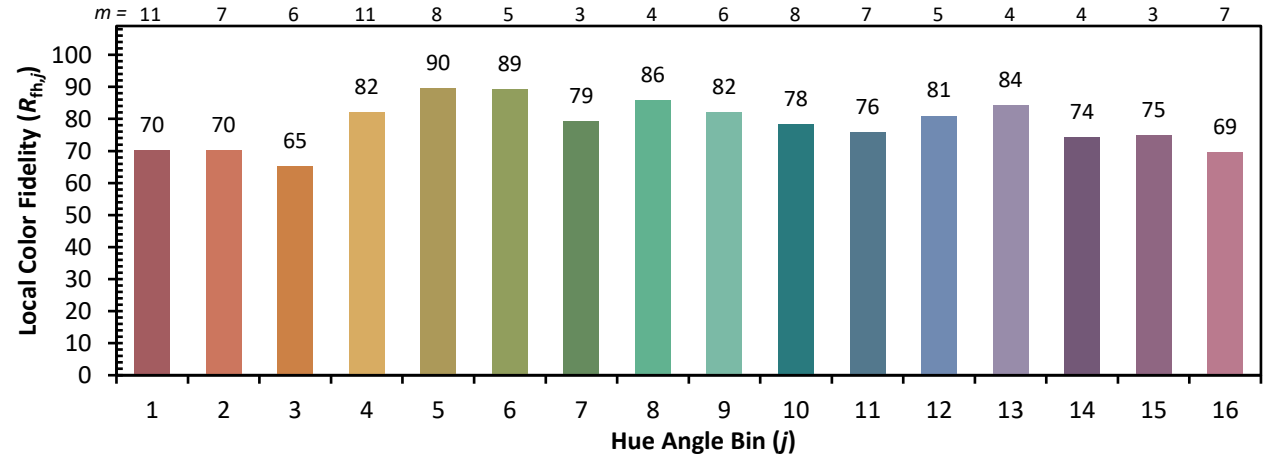
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Color Rendition by Hue-Angle Bin



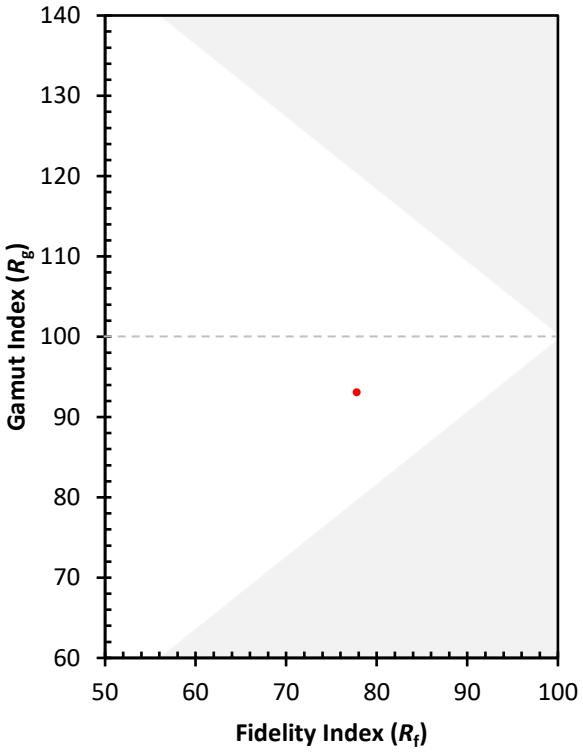


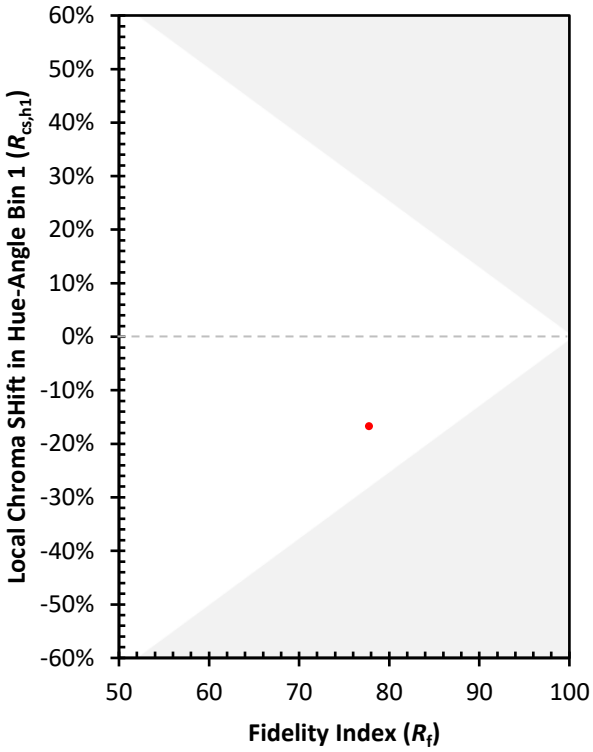


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Measure Comparisons





(END OF REPORT)