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: P1046409

Luminaire Tested: **FFX-CLB-80-722-U-FR-T4-UPLR**

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:	P1046409
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-722-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10223.4 lumens
Efficiency:	N/A
Efficacy:	125.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U4 - G3

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

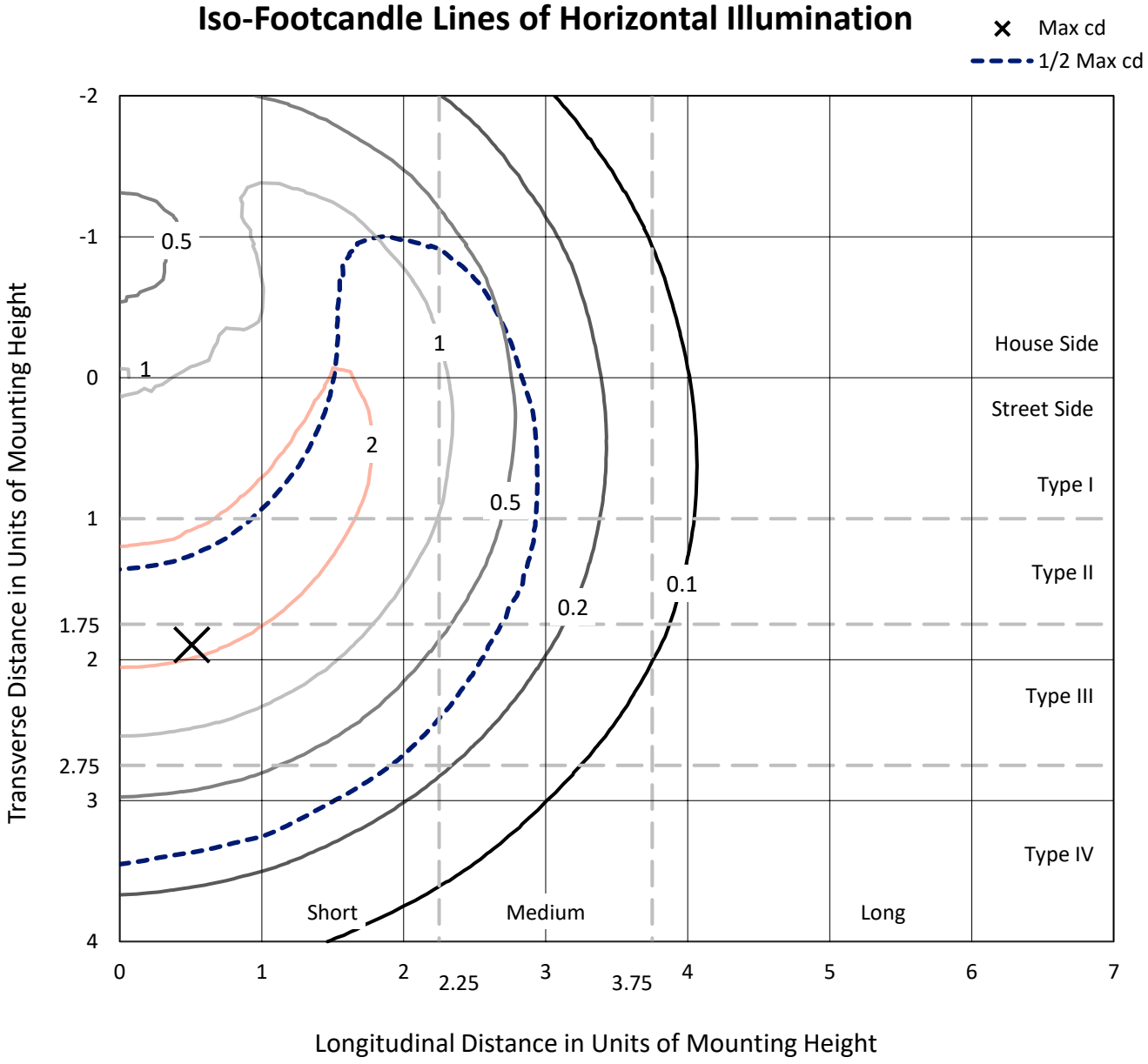


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Iso-Footcandle Lines of Horizontal Illumination



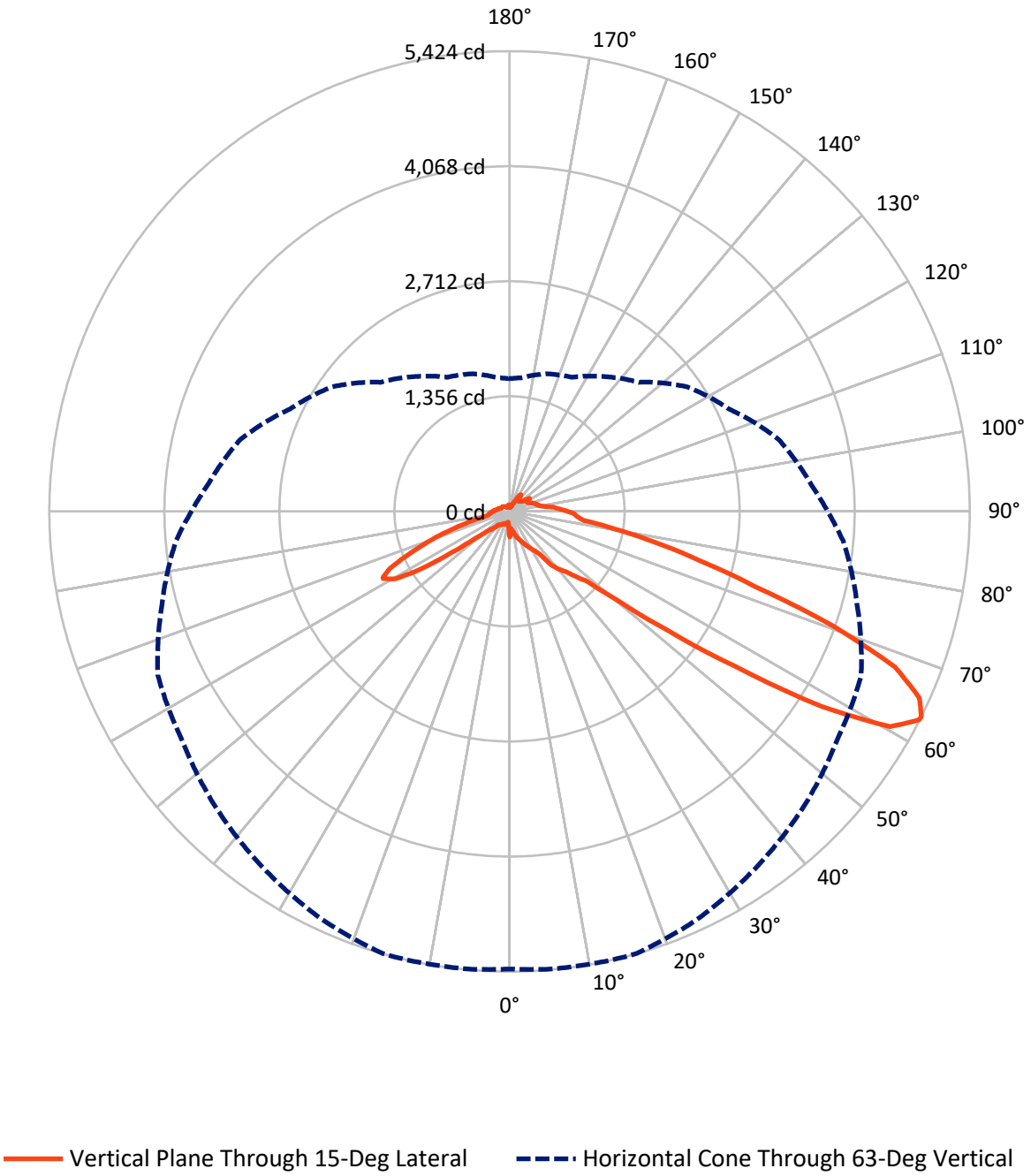
Based on 15 foot mounting height. Maximum calculated value = 3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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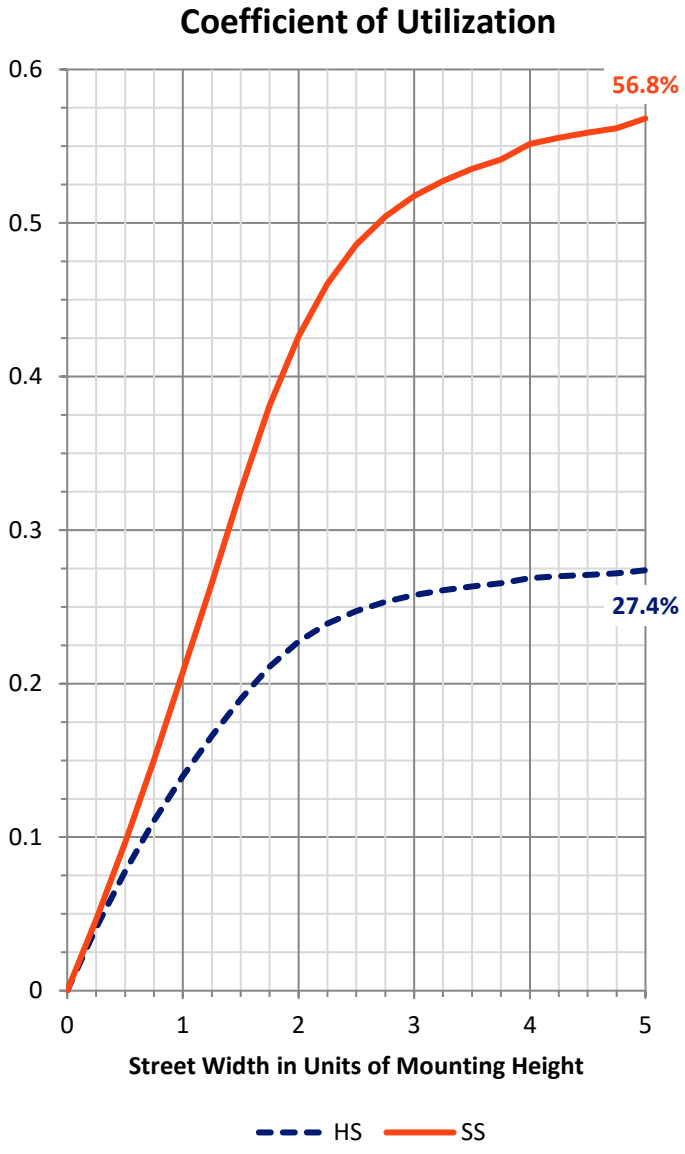
REPORT NUMBER: P1046409
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2891.3	471.1	3362.4
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	6054.1	806.9	6861.0
	% Fixture	59.2	7.9	67.1
Total	Lumens	8945.4	1278.0	10223.4
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.6	0.2
10°-20°	67.0	0.7
20°-30°	145.0	1.4
30°-40°	298.2	2.9
40°-50°	614.8	6.0
50°-60°	2022.5	19.8
60°-70°	3348.6	32.8
70°-80°	1756.4	17.2
80°-90°	674.4	6.6
90°-100°	407.4	4.0
100°-110°	256.6	2.5
110°-120°	190.0	1.9
120°-130°	161.8	1.6
130°-140°	105.5	1.0
140°-150°	91.7	0.9
150°-160°	42.0	0.4
160°-170°	17.2	0.2
170°-180°	5.9	0.1
0°-90°	8945.4	87.5
0°-180°	10223.4	100.0



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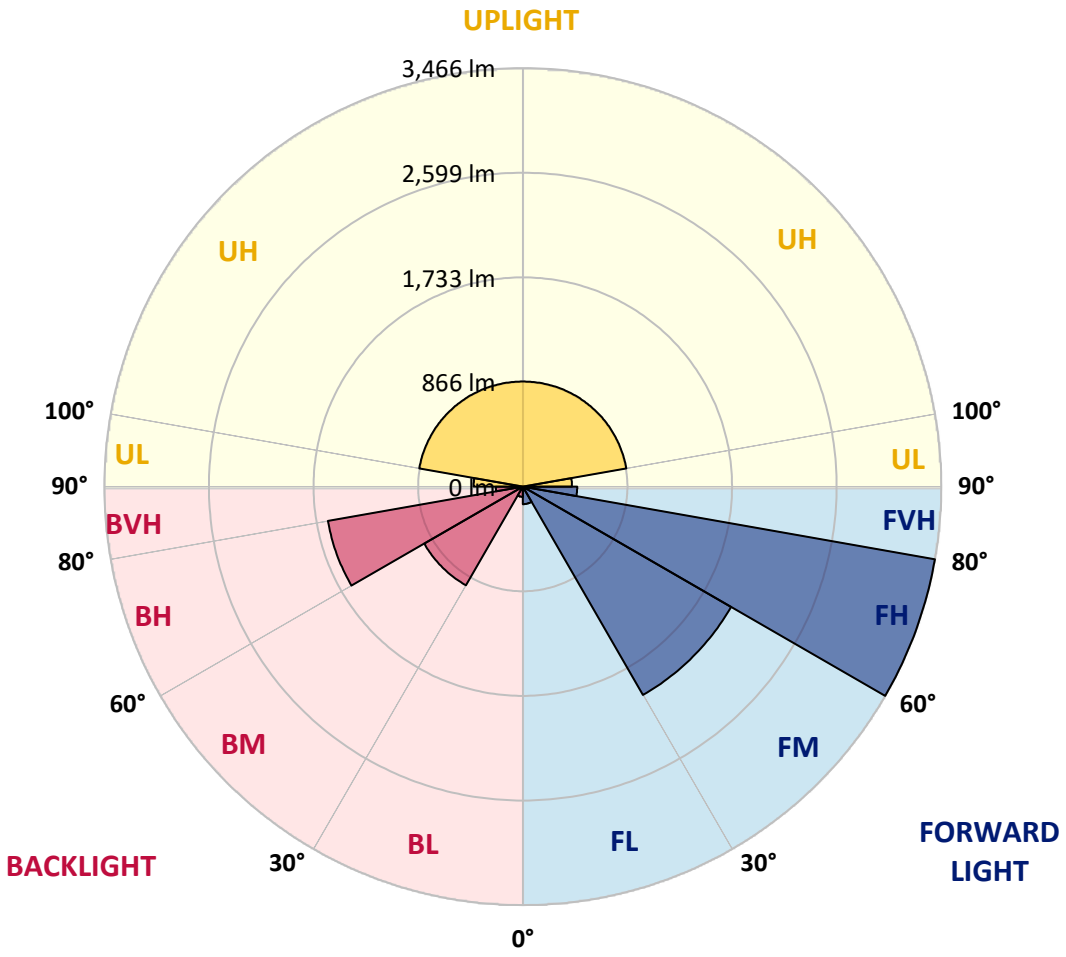
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	145.5	1.4			
FM	(30°-60°)	1992.1	19.5			
FH	(60°-80°)	3465.9	33.9			G2/5000
FVH	(80°-90°)	450.6	4.4			G3/500
BL	(0°-30°)	85.1	0.8	B0/110		
BM	(30°-60°)	943.4	9.2	B1/1000		
BH	(60°-80°)	1639.1	16.0	B3/2500		G3/2500
BVH	(80°-90°)	223.8	2.2			G2/225
UL	(90°-100°)	407.4	4.0		U3/500	
UH	(100°-180°)	870.6	8.5		U4/1000	

BUG Rating: B3-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	301.9	301.9	*301.9*	301.9	301.9	301.9	301.9	301.9	301.9	301.9	301.9
2.5°	185.9	185.9	*212.7*	217.4	242.9	250.9	236.9	226.1	252.3	306.0	314.7
5°	202.0	206.0	*205.3*	204.6	206.0	230.1	255.0	243.6	199.9	159.0	159.0
7.5°	228.8	230.1	*229.5*	228.8	220.1	206.0	199.9	218.1	229.5	195.3	163.7
10°	247.6	246.2	*245.6*	244.9	246.2	251.6	249.6	227.5	205.3	193.9	187.2
12.5°	283.1	283.8	*281.8*	280.5	279.1	277.1	275.1	279.8	267.7	234.8	212.7
15°	310.0	310.0	*315.4*	314.0	314.0	307.3	297.9	284.5	268.4	259.7	240.2
17.5°	338.2	338.8	*338.2*	338.2	335.5	326.8	316.7	304.6	287.8	273.1	256.3
20°	365.7	365.7	*365.0*	364.3	363.7	357.0	344.2	328.1	312.7	298.6	281.1
22.5°	394.5	396.5	*397.9*	396.5	394.5	387.8	373.7	358.3	343.5	323.4	304.6
25°	435.5	436.1	*434.8*	433.4	430.8	422.0	411.3	395.2	377.1	355.6	330.8
27.5°	474.4	475.7	*475.0*	475.0	469.7	462.3	451.6	430.1	410.0	385.1	359.6
30°	518.7	517.3	*514.0*	514.6	511.3	505.2	493.2	474.4	448.9	419.4	391.2
32.5°	562.3	562.3	*557.6*	555.6	555.6	547.5	534.1	514.6	490.5	458.9	431.4
35°	609.9	622.0	*634.1*	638.8	638.8	627.4	611.3	585.8	565.0	532.1	497.9
37.5°	838.7	831.3	*801.8*	805.2	795.1	790.4	779.7	758.2	729.3	679.0	626.7
40°	919.2	917.9	*895.7*	893.1	888.4	872.9	861.5	846.8	836.7	776.3	697.8
42.5°	933.3	940.7	*970.2*	977.6	1015.9	992.4	946.7	863.5	842.7	797.1	764.2
45°	1091.7	1094.4	*1094.4*	1095.7	1085.6	1068.2	1062.1	1009.1	967.5	901.8	840.1
47.5°	1249.3	1255.4	*1231.9*	1250.7	1276.9	1241.3	1225.2	1181.6	1124.5	1073.6	972.2
50°	1615.7	1639.2	*1643.9*	1644.6	1656.0	1653.3	1629.1	1568.7	1511.7	1394.9	1282.2
52.5°	2294.1	2316.9	*2326.9*	2302.8	2267.2	2251.1	2257.1	2232.3	2100.1	1974.7	1745.9
55°	3179.7	3219.3	*3219.3*	3244.8	3234.1	3157.6	3152.9	2990.5	2777.2	2637.6	2438.3
57.5°	4364.7	4305.0	*4338.5*	4374.7	4300.9	4220.4	4100.3	3930.5	3618.5	3377.7	3089.2
60°	5243.0	5218.8	*5152.4*	5111.5	4926.9	4767.3	4672.6	4548.5	4311.7	3995.0	3609.2
62.5°	5404.0	5421.4	*5416.8*	5416.8	5269.1	5077.9	4886.7	4704.9	4557.9	4231.8	3926.5
63°	*5393.9*	*5415.4*	*5424.1*	*5421.4*	*5288.6*	*5100.1*	*4910.2*	*4709.5*	*4573.3*	*4240.5*	*3945.3*
65°	5308.1	5326.2	*5310.7*	5305.4	5221.5	5094.0	4880.6	4682.0	4557.9	4201.6	3948.0
67.5°	4963.2	4959.1	*4901.4*	4927.6	4874.6	4803.5	4604.2	4408.3	4322.4	3933.2	3699.7
70°	4008.4	3980.2	*4043.3*	4080.8	4023.1	3995.0	3758.1	3629.3	3518.6	3222.7	3034.1
72.5°	3064.3	3006.0	*3016.7*	3050.9	2978.4	2959.0	2857.7	2751.7	2698.6	2514.1	2304.8
75°	2402.7	2371.2	*2312.8*	2322.2	2262.5	2243.1	2232.3	2201.5	2180.7	2027.0	1819.7
77.5°	1796.9	1795.5	*1746.5*	1739.2	1696.2	1728.4	1715.7	1762.0	1751.9	1629.8	1472.1
80°	1257.4	1250.0	*1262.8*	1258.1	1248.0	1266.8	1246.7	1272.2	1272.2	1192.3	1125.9
82.5°	820.6	835.4	*875.6*	885.0	899.8	944.1	872.9	835.4	825.3	816.6	784.4
85°	814.6	818.6	*801.1*	803.2	796.4	779.7	792.4	798.5	788.4	740.1	669.0
87.5°	767.6	773.0	*758.9*	762.9	738.1	743.4	751.5	756.2	751.5	708.5	649.5
90°	646.8	652.9	*665.6*	665.6	667.6	669.0	656.2	663.6	658.9	618.0	575.0
92.5°	573.7	579.0	*579.7*	580.4	575.0	592.5	571.7	558.9	555.6	522.7	491.8
95°	524.7	518.7	*517.3*	518.7	516.0	515.3	501.9	492.5	488.5	462.3	432.1
97.5°	410.6	414.0	*412.6*	416.0	409.3	408.6	397.2	385.1	381.1	359.6	339.5
100°	360.3	359.6	*361.0*	361.7	357.6	352.9	344.9	336.2	331.5	315.4	295.9
102.5°	338.2	337.5	*340.2*	340.9	337.5	334.1	327.4	322.1	318.0	303.3	281.8
105°	324.1	322.1	*325.4*	325.4	318.0	316.0	311.3	310.7	308.0	290.5	269.7
107.5°	304.6	301.3	*305.3*	304.6	301.9	299.9	295.9	293.2	291.2	276.4	253.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	286.5	281.8	*283.8*	285.2	287.2	285.8	282.5	277.1	271.7	259.7	240.2
112.5°	253.0	255.6	*255.0*	255.0	257.0	257.7	251.6	248.3	244.9	235.5	222.8
115°	240.2	240.2	*240.2*	240.2	234.8	232.8	226.8	222.8	222.1	210.7	202.6
117.5°	230.1	231.5	*234.8*	236.9	243.6	239.5	226.1	217.4	214.0	209.3	200.6
120°	271.1	266.4	*261.7*	261.0	261.7	259.0	256.3	250.3	242.2	229.5	205.3
122.5°	290.5	278.5	*280.5*	279.8	275.1	277.1	277.8	278.5	273.1	253.0	215.4
125°	243.6	240.2	*242.2*	244.2	244.9	244.2	242.9	248.9	241.5	234.8	206.7
127.5°	194.6	193.2	*189.2*	188.5	187.2	187.9	187.9	189.9	183.2	176.5	175.1
130°	185.2	182.5	*183.2*	183.8	183.2	179.1	176.5	173.1	172.4	165.7	156.3
132.5°	167.7	169.1	*180.5*	181.8	189.9	185.2	171.1	161.7	163.0	166.4	163.0
135°	157.0	156.3	*165.1*	165.7	177.8	174.5	163.0	152.3	152.3	160.4	157.0
137.5°	160.4	161.7	*162.4*	163.0	162.4	161.7	161.0	156.3	153.0	152.3	144.3
140°	172.4	171.8	*165.1*	165.7	165.1	165.1	169.1	172.4	161.0	151.0	137.5
142.5°	180.5	182.5	*179.8*	183.2	189.2	183.8	177.1	168.4	161.7	155.0	146.9
145°	244.9	240.2	*238.2*	236.9	232.8	221.4	214.7	206.0	197.9	187.2	173.8
147.5°	222.1	223.4	*219.4*	220.7	215.4	211.4	210.0	210.7	208.0	202.0	187.9
150°	176.5	177.8	*173.8*	171.8	169.8	169.8	169.8	171.1	167.7	163.7	157.0
152.5°	123.5	122.1	*120.8*	120.1	118.8	117.4	117.4	118.1	114.7	113.4	108.0
155°	113.4	112.7	*107.4*	106.0	107.4	108.7	109.4	107.4	104.7	102.0	94.6
157.5°	88.6	86.6	*85.9*	87.2	87.2	86.6	85.2	86.6	83.9	83.2	81.9
160°	72.5	71.8	*72.5*	72.5	73.1	73.1	72.5	72.5	71.1	71.8	71.8
162.5°	61.7	61.7	*61.7*	61.1	62.4	63.1	62.4	62.4	63.1	65.1	66.4
165°	53.0	53.0	*53.7*	53.7	54.3	54.3	55.0	55.7	57.0	61.7	65.8
167.5°	49.7	49.7	*50.3*	50.3	51.0	51.7	53.0	55.7	59.7	65.1	67.1
170°	49.0	49.0	*49.0*	49.0	49.7	50.3	53.0	57.0	61.7	65.1	63.1
172.5°	51.0	51.0	*51.7*	51.7	51.7	54.3	56.4	59.7	62.4	63.1	61.1
175°	53.0	52.3	*53.0*	53.0	53.7	55.7	58.4	59.7	61.1	61.7	62.4
177.5°	51.7	51.7	*51.7*	52.3	52.3	53.0	54.3	55.0	56.4	57.7	59.7
180°	50.3	50.3	*50.3*	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	301.9	301.9	301.9	301.9	301.9	301.9	301.9	301.9	301.9	301.9	301.9
2.5°	314.7	306.0	238.2	204.0	232.8	289.2	294.6	255.0	197.9	137.5	125.5
5°	167.7	177.1	197.9	197.3	183.8	171.8	157.0	147.6	163.0	156.3	160.4
7.5°	151.6	142.9	146.3	171.1	167.1	126.8	114.7	112.1	125.5	156.3	153.0
10°	184.5	181.8	171.8	151.6	144.9	150.3	155.0	151.6	139.6	121.4	118.8
12.5°	208.7	205.3	206.7	219.4	204.0	169.1	149.6	143.6	150.3	177.1	182.5
15°	232.2	226.1	217.4	199.3	184.5	175.1	163.7	151.6	155.7	148.3	145.6
17.5°	248.3	238.9	220.7	207.3	192.6	180.5	170.4	157.7	149.0	146.9	147.6
20°	269.7	259.7	240.2	224.8	206.7	190.6	173.1	159.7	151.0	147.6	147.6
22.5°	294.6	282.5	260.3	238.9	218.7	197.9	177.1	162.4	154.3	151.0	149.6
25°	320.7	308.6	281.1	258.3	232.8	210.0	188.5	169.8	161.0	157.0	153.7
27.5°	347.6	332.8	305.3	277.1	249.6	222.8	199.9	180.5	168.4	161.7	162.4
30°	377.1	365.0	334.1	301.9	267.7	236.2	214.0	191.9	177.1	169.8	170.4
32.5°	416.7	397.2	360.3	323.4	289.9	255.0	226.8	201.3	185.2	180.5	181.2
35°	482.4	457.6	412.6	362.3	317.4	276.4	240.9	210.7	191.9	184.5	183.8
37.5°	601.2	567.6	516.0	456.9	391.8	325.4	267.7	221.4	197.9	185.9	183.8
40°	658.9	613.3	548.2	497.2	452.9	395.9	330.1	260.3	208.0	192.6	190.6
42.5°	736.1	697.8	613.3	514.0	454.9	407.3	361.0	316.0	250.9	210.7	203.3
45°	810.5	776.3	709.9	612.6	524.7	450.2	381.1	332.1	291.9	250.9	247.6
47.5°	936.0	899.8	789.1	702.5	609.9	525.4	452.9	372.4	320.1	291.2	291.2
50°	1250.7	1184.3	1074.9	942.0	793.1	656.2	553.6	454.9	391.8	348.2	346.2
52.5°	1690.2	1596.2	1435.2	1288.3	1112.5	954.1	794.4	622.7	530.7	467.7	467.0
55°	2324.9	2229.0	2013.6	1731.1	1515.7	1326.5	1160.8	972.2	827.3	725.3	717.3
57.5°	3001.9	2921.4	2702.0	2351.1	2011.6	1676.8	1476.1	1325.8	1256.1	1184.9	1170.2
60°	3440.7	3302.5	3102.6	2767.8	2439.0	2012.2	1763.3	1590.9	1567.4	1552.0	1532.5
62.5°	3717.2	3554.1	3256.9	2855.7	2553.7	2149.8	1927.0	1743.2	1688.2	1605.6	1582.2
63°	*3748.7*	*3571.6*	*3281.7*	*2853.6*	*2557.1*	*2151.8*	*1939.1*	*1743.2*	*1678.8*	*1579.5*	*1564.0*
65°	3734.0	3569.6	3280.4	2812.0	2479.2	2112.2	1904.2	1663.3	1560.7	1429.2	1403.0
67.5°	3508.5	3333.4	3061.0	2600.7	2300.1	1925.7	1696.9	1441.2	1285.6	1156.8	1126.6
70°	2856.3	2747.6	2508.1	2110.2	1882.1	1590.2	1389.6	1189.0	1020.5	885.0	850.8
72.5°	2176.6	2062.6	1882.7	1624.4	1456.0	1255.4	1065.5	911.2	772.3	682.4	685.1
75°	1727.1	1618.4	1470.1	1300.3	1162.8	984.3	796.4	643.5	544.8	491.2	486.5
77.5°	1390.9	1315.8	1186.3	1029.9	911.2	724.6	557.6	424.1	350.9	320.1	311.3
80°	1072.2	1019.9	923.3	785.7	662.2	509.3	379.8	299.9	261.0	234.8	230.1
82.5°	762.9	731.4	650.8	554.9	471.0	391.2	332.8	280.5	240.2	218.1	211.4
85°	636.8	607.2	556.2	496.5	442.8	384.5	322.7	267.0	229.5	212.0	203.3
87.5°	618.0	590.5	541.5	477.7	419.4	356.3	293.9	241.5	214.7	197.9	192.6
90°	553.6	532.8	489.8	431.4	373.1	308.6	254.3	217.4	196.6	183.2	177.1
92.5°	477.1	458.9	423.4	374.4	325.4	279.1	237.5	206.7	185.9	172.4	167.7
95°	414.7	403.3	373.7	332.1	296.6	258.3	222.8	193.2	171.8	159.7	155.0
97.5°	330.8	317.4	295.9	267.0	240.2	213.4	187.2	167.1	151.6	143.6	139.6
100°	287.8	279.1	259.7	236.9	214.0	190.6	170.4	155.0	144.9	138.2	134.9
102.5°	271.1	265.0	246.9	224.1	202.6	179.8	159.7	145.6	138.2	132.2	129.5
105°	255.6	250.9	236.9	216.1	195.3	170.4	147.6	135.5	128.8	124.8	122.8
107.5°	239.5	234.2	220.7	200.6	182.5	161.0	140.9	126.1	117.4	112.7	112.1

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

Scaled Data Report

REPORT NUMBER: P1046409
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	226.1	222.1	207.3	191.2	173.8	153.7	136.2	120.8	110.7	105.3	104.7
112.5°	212.0	207.3	192.6	177.1	162.4	144.9	129.5	116.1	106.7	101.3	100.6
115°	193.2	189.2	178.5	163.7	151.6	134.9	122.1	110.0	102.7	97.3	96.6
117.5°	195.3	183.8	169.1	155.7	144.9	132.9	121.4	112.1	100.6	94.6	94.6
120°	197.9	187.2	172.4	161.0	155.0	145.6	128.2	114.7	99.3	93.3	92.6
122.5°	195.3	196.6	188.5	177.1	165.1	149.0	127.5	112.7	97.3	92.6	93.3
125°	189.2	195.3	183.8	168.4	152.3	136.9	118.8	105.3	95.9	92.6	91.9
127.5°	171.1	169.8	155.0	143.6	132.2	119.4	108.0	100.0	93.3	89.2	87.2
130°	151.0	150.3	144.3	134.9	123.5	112.1	102.0	96.6	89.9	84.5	83.2
132.5°	159.0	157.0	144.3	128.8	116.1	106.7	100.0	93.9	84.5	78.5	77.8
135°	150.3	149.0	136.2	120.8	109.4	104.7	100.0	91.3	79.8	75.1	74.5
137.5°	137.5	132.2	121.4	112.1	106.7	105.3	99.3	89.2	78.5	73.1	72.5
140°	130.8	126.8	118.8	112.7	106.7	99.3	90.6	81.2	73.8	69.8	69.1
142.5°	138.9	137.5	125.5	114.7	105.3	96.6	87.2	81.2	73.1	67.8	67.1
145°	164.4	157.7	142.9	128.2	120.1	108.7	96.6	83.9	69.1	61.1	59.0
147.5°	179.8	173.8	159.0	142.9	125.5	107.4	88.6	72.5	61.1	55.0	53.7
150°	149.0	146.3	136.9	122.1	107.4	90.6	75.1	63.7	56.4	52.3	52.3
152.5°	104.7	104.0	100.0	91.3	81.9	72.5	64.4	57.7	53.7	51.0	51.0
155°	92.6	91.3	88.6	80.5	73.8	65.8	59.7	55.7	53.0	51.0	51.0
157.5°	79.8	78.5	77.8	71.8	66.4	61.1	56.4	53.0	51.0	49.7	49.0
160°	71.1	69.1	67.1	63.7	60.4	57.7	55.7	53.0	51.0	49.7	49.7
162.5°	66.4	65.1	61.7	59.0	57.7	57.7	58.4	57.0	53.0	51.0	50.3
165°	66.4	64.4	59.7	57.0	57.0	60.4	63.7	61.1	57.7	53.7	53.0
167.5°	67.1	65.8	61.1	59.0	61.1	65.1	68.4	67.8	63.1	59.7	59.7
170°	62.4	61.7	62.4	64.4	66.4	67.1	68.4	67.8	69.1	73.8	73.8
172.5°	60.4	61.1	64.4	67.8	71.8	71.8	68.4	67.8	73.8	80.5	81.9
175°	63.1	64.4	67.8	71.8	75.1	75.1	71.8	72.5	78.5	84.5	85.9
177.5°	60.4	61.1	62.4	61.7	63.1	59.7	61.1	59.7	61.7	61.7	61.7
180°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

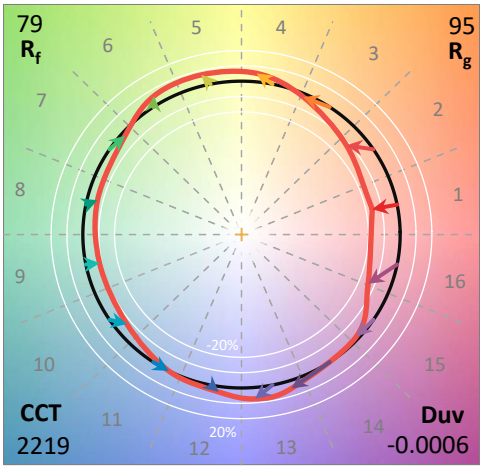
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
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-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

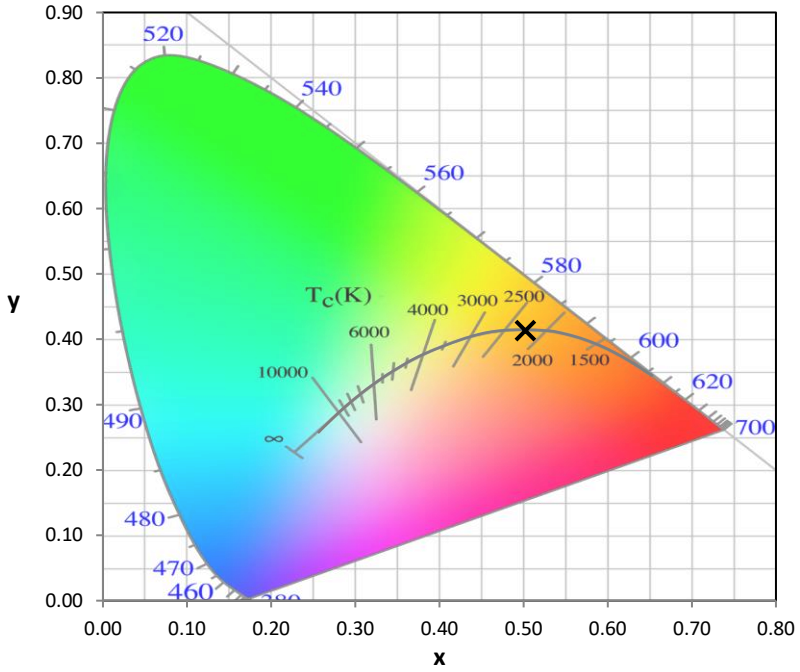
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

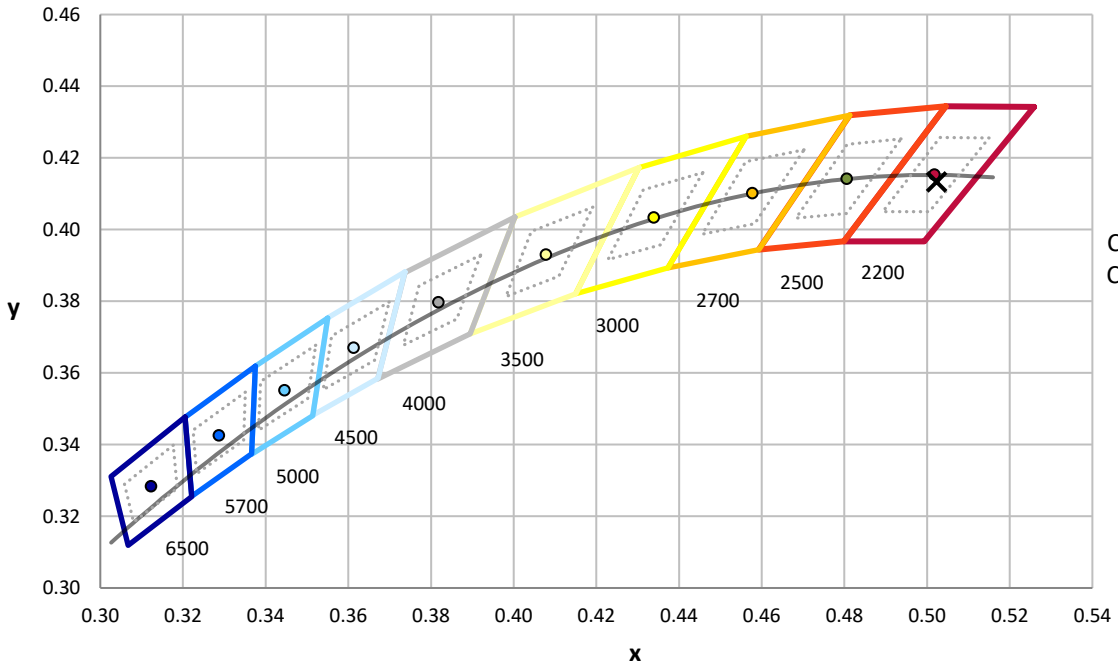
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

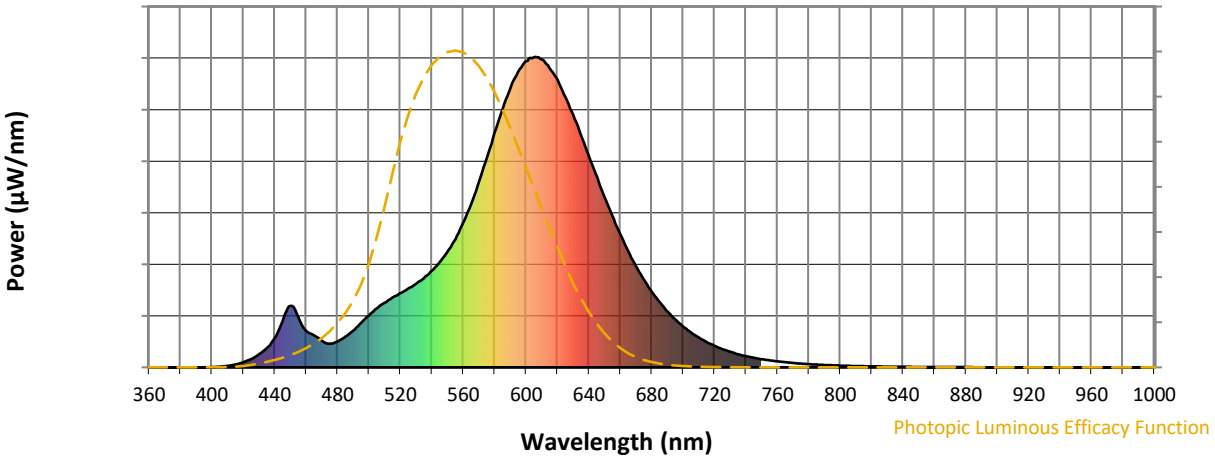


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

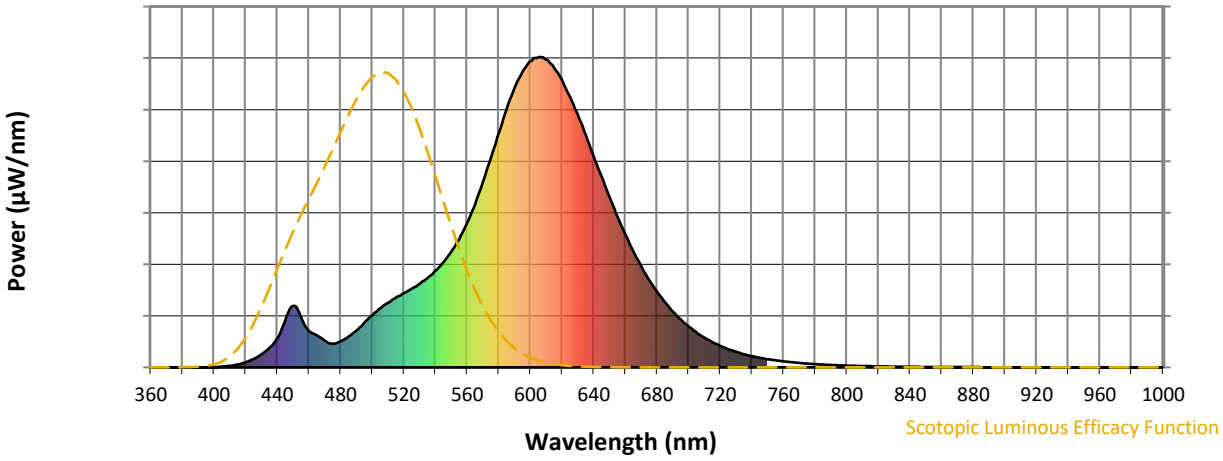


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

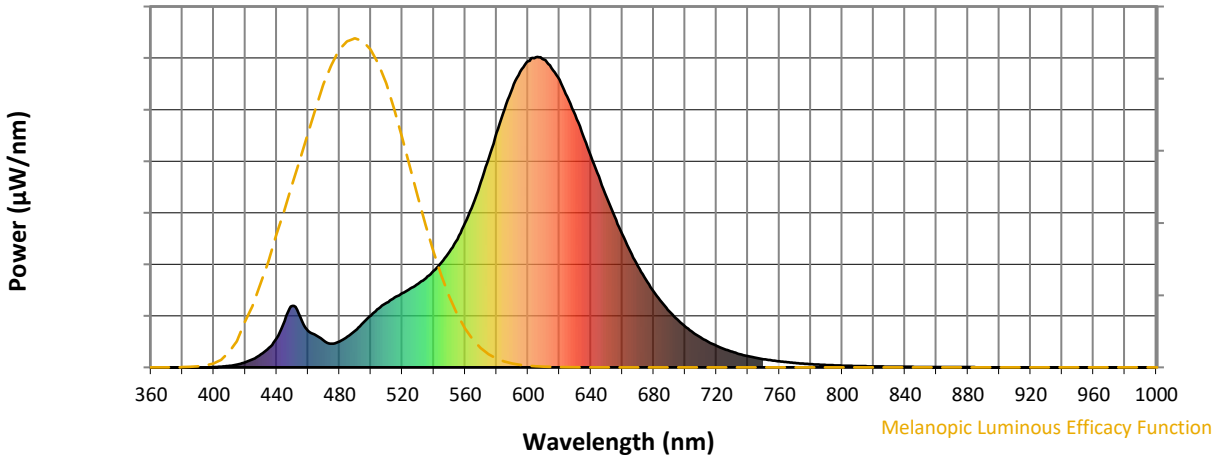


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

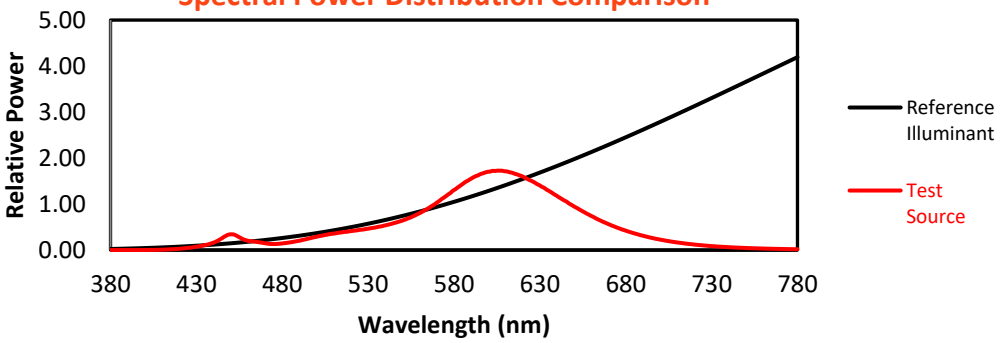
REPORT NUMBER: SP1-2501-332-2

TM-30-18

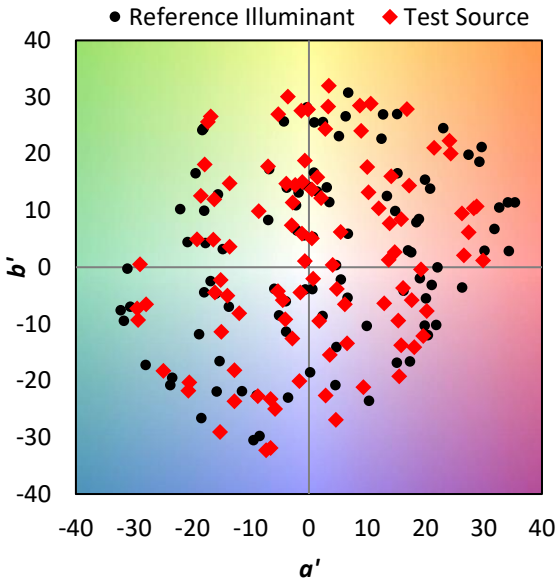
Summary

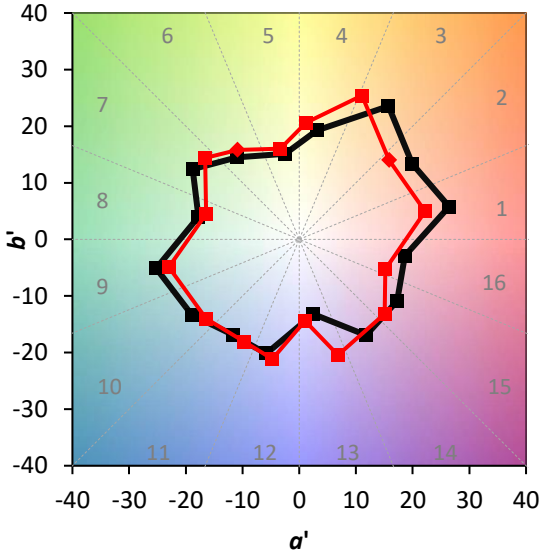
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

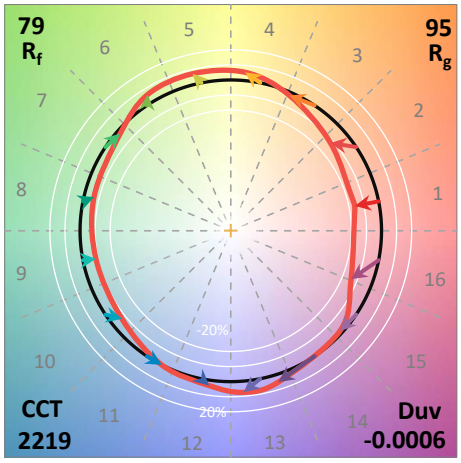
Spectral Power Distribution Comparison

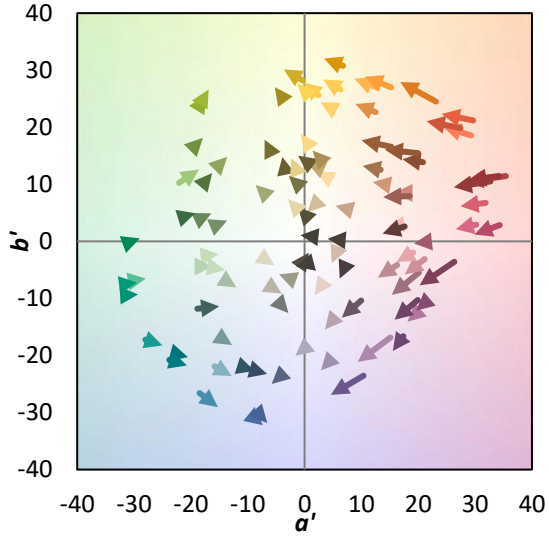


Color Vector Graphics







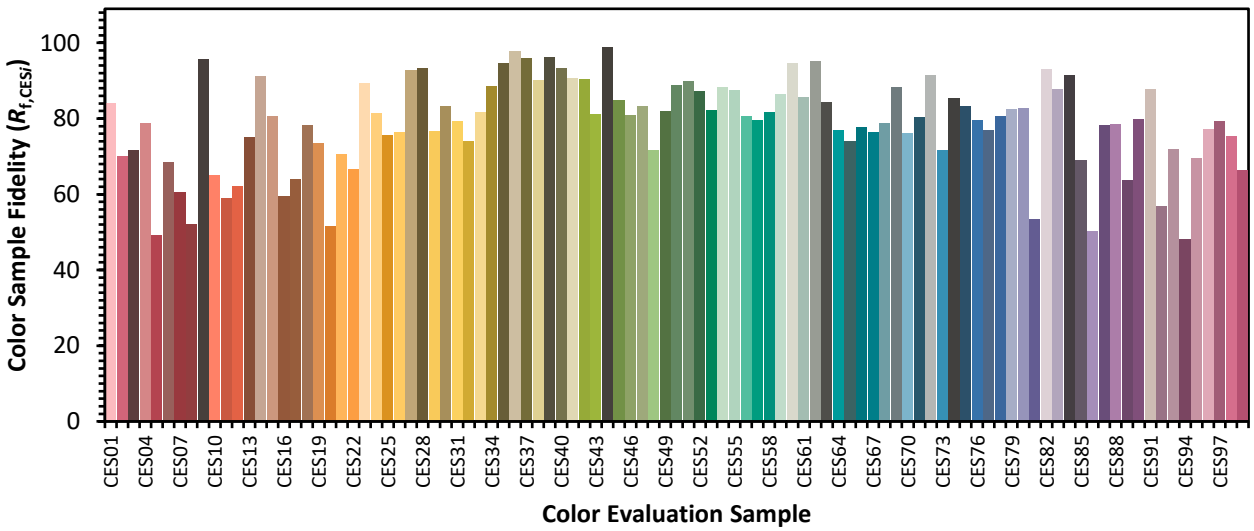


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

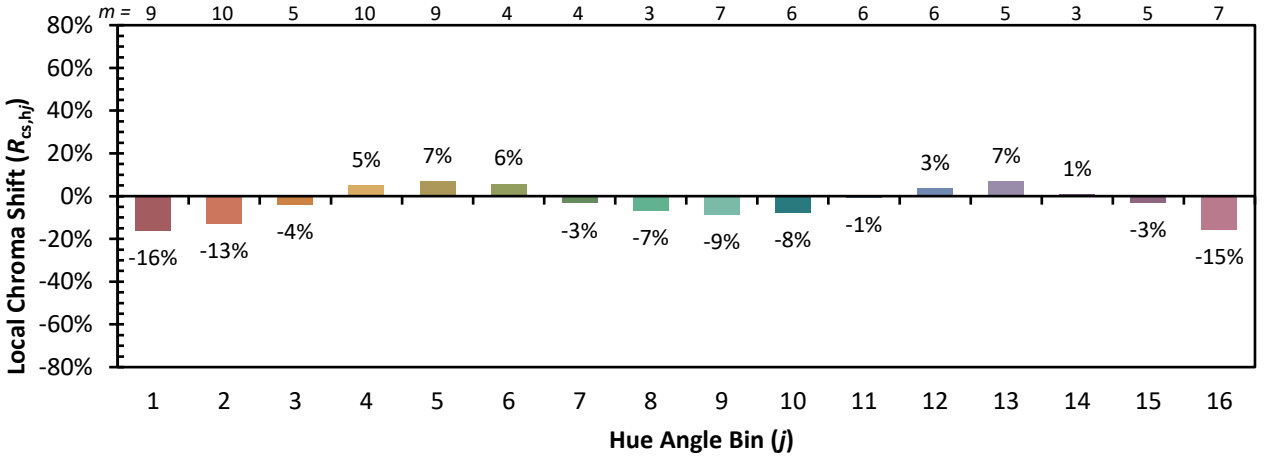
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
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CES25 = 73	CES50 = 89	CES75 = 83	

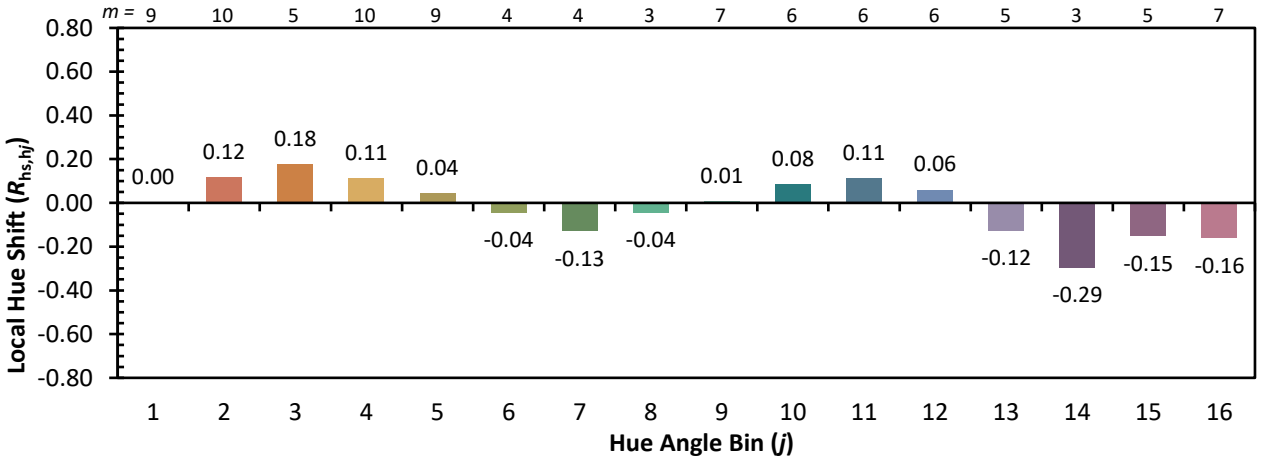


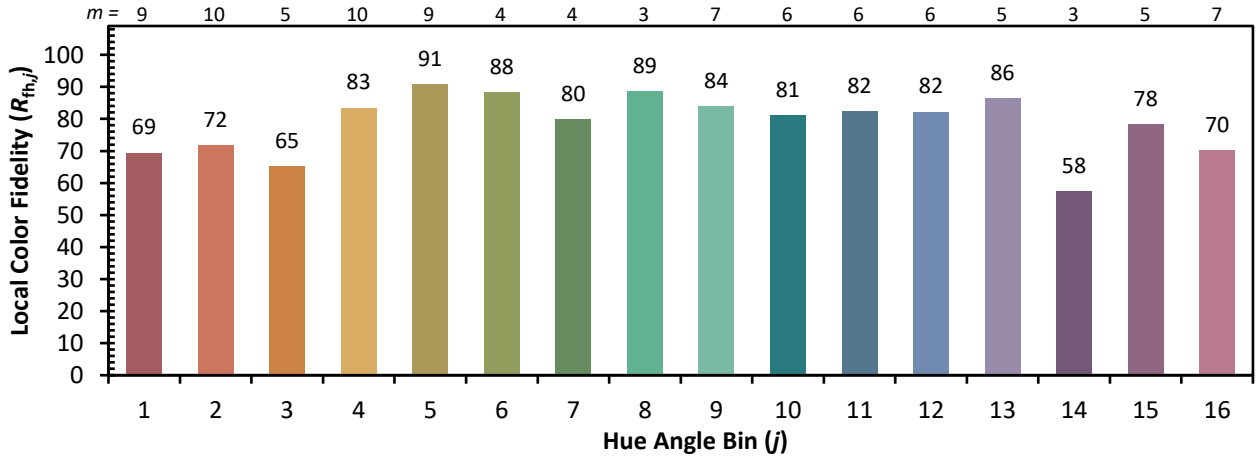
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Color Rendition by Hue-Angle Bin



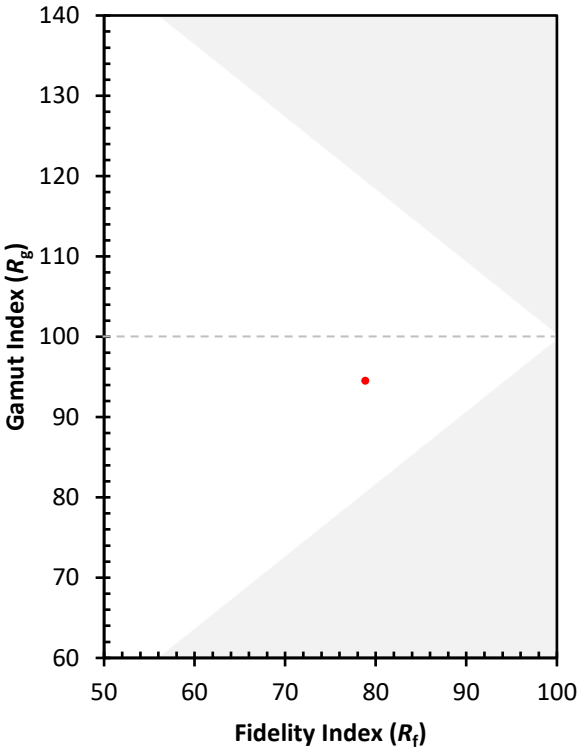


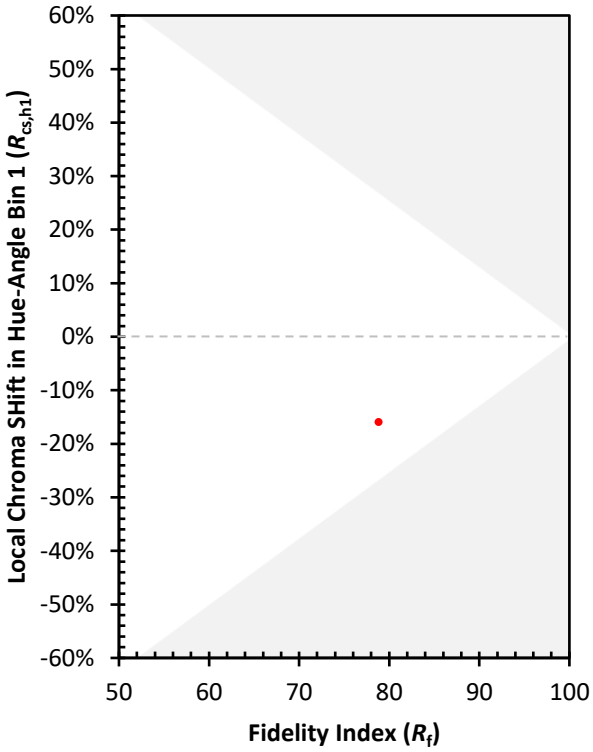


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Measure Comparisons





(END OF REPORT)