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: P1046413

Luminaire Tested: **FFX-CLB-40-722-U-FR-T4-UPLR**

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:	P1046413
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-722-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:	5105.9 lumens
Efficiency:	N/A
Efficacy:	129.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U3 - G3

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

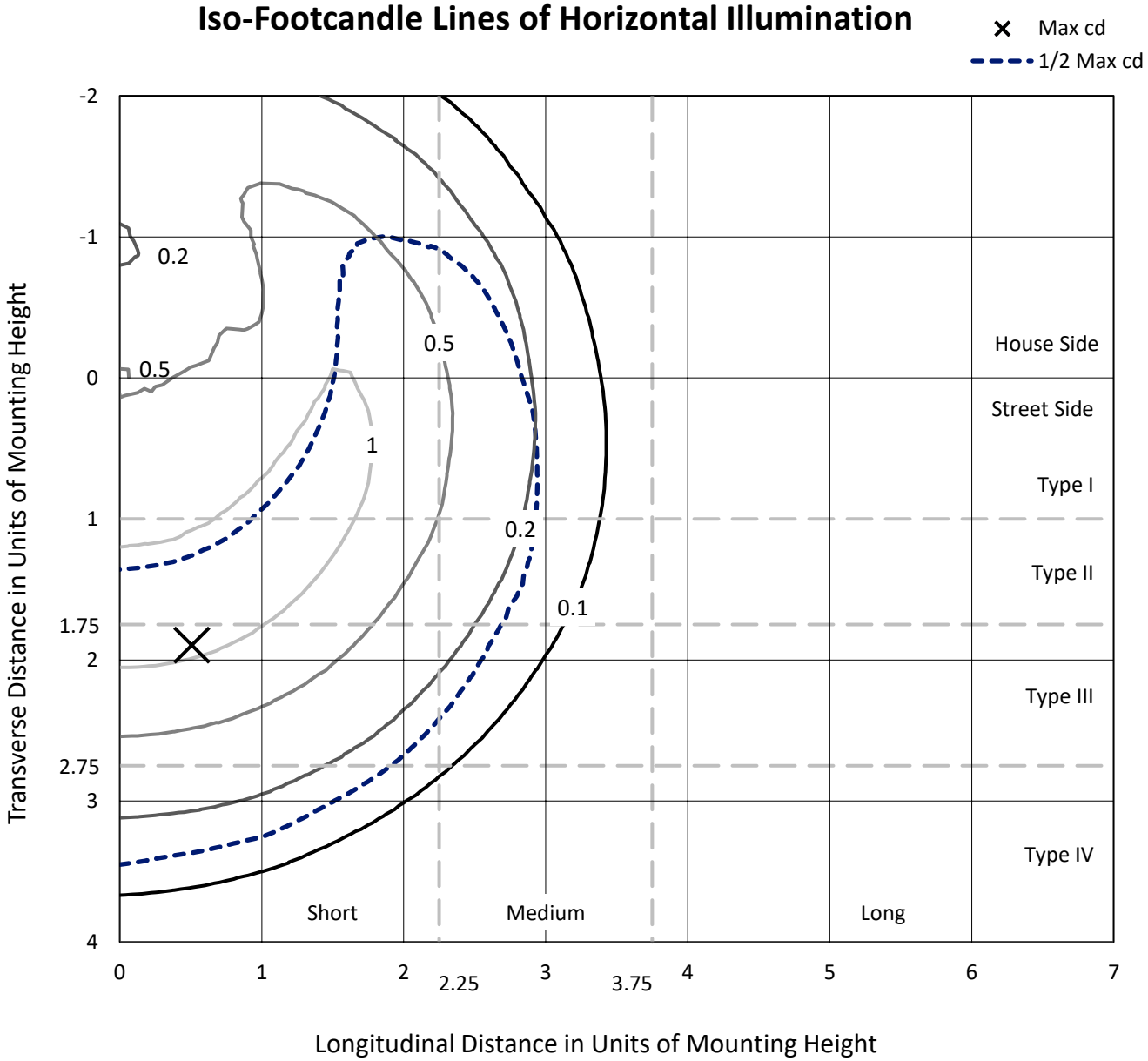


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Iso-Footcandle Lines of Horizontal Illumination



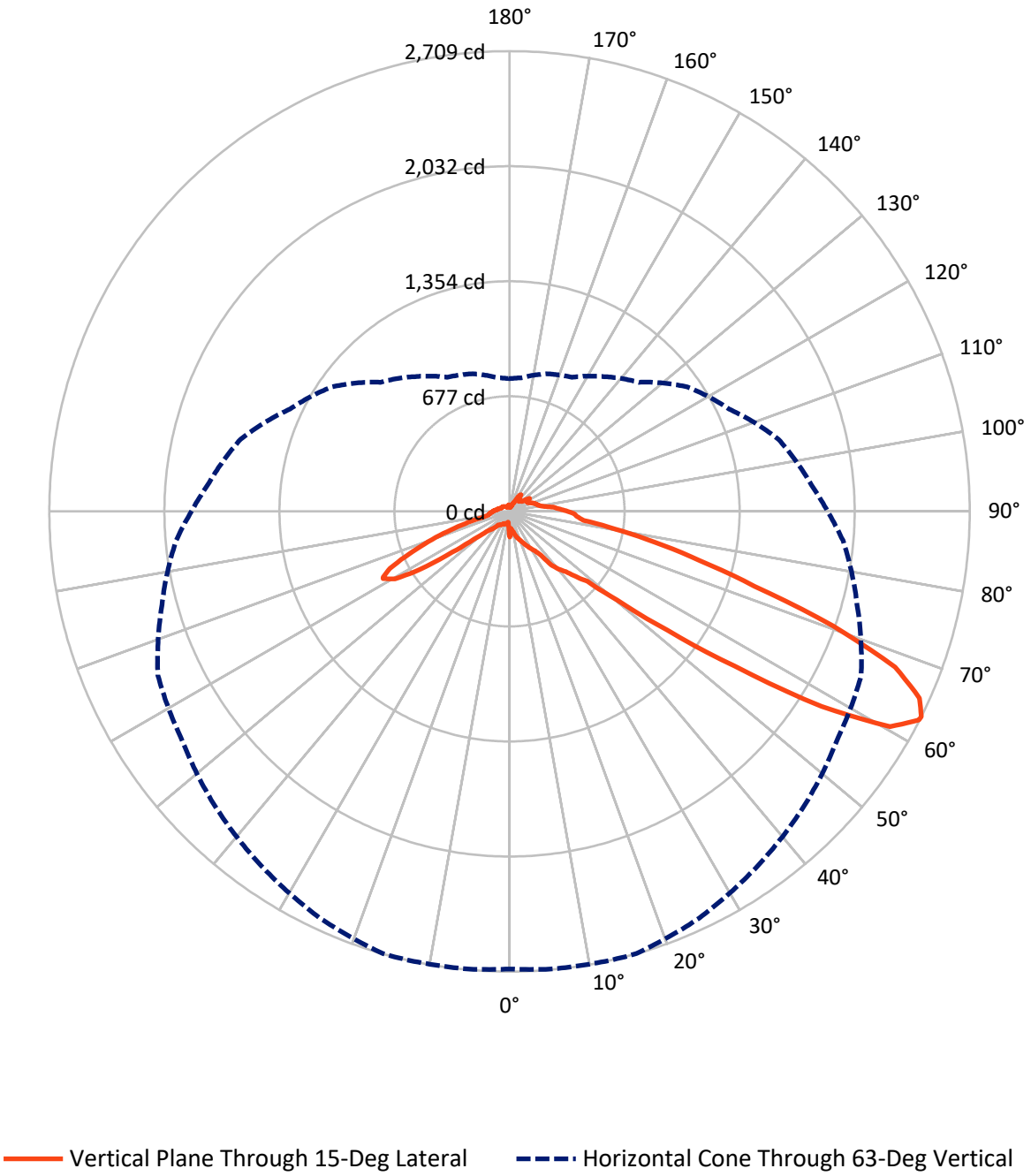
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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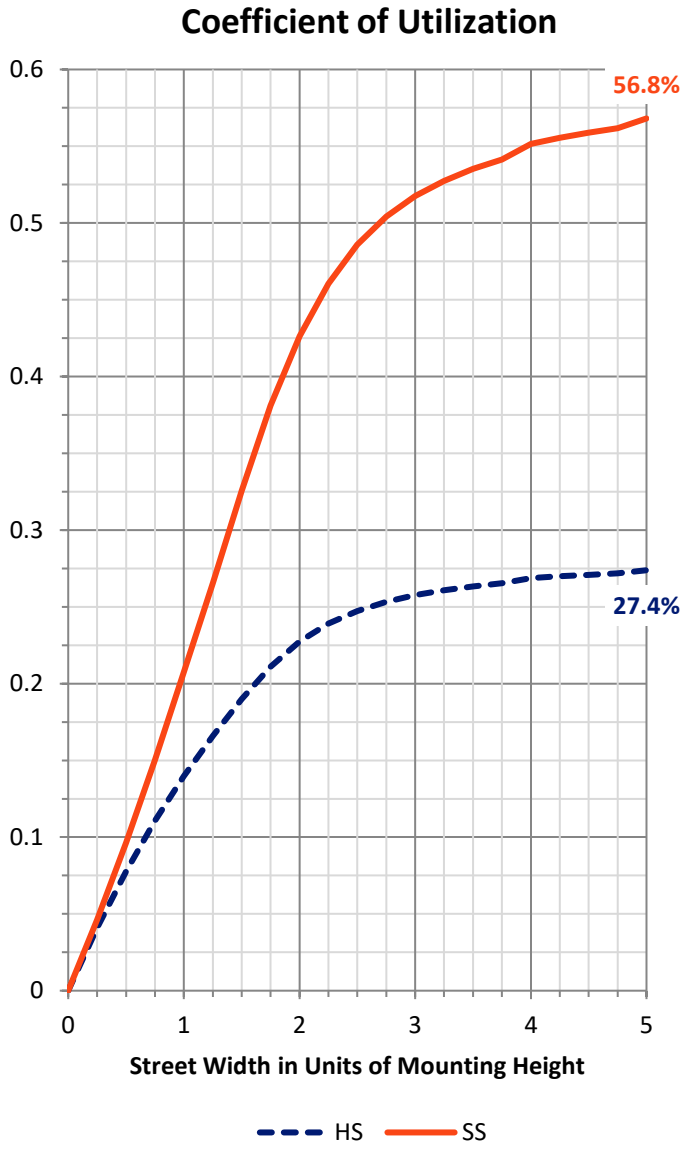
REPORT NUMBER: P1046413
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1444.0	235.3	1679.3
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	3023.6	403.0	3426.6
	% Fixture	59.2	7.9	67.1
Total	Lumens	4467.6	638.3	5105.9
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.2
10°-20°	33.4	0.7
20°-30°	72.4	1.4
30°-40°	148.9	2.9
40°-50°	307.1	6.0
50°-60°	1010.1	19.8
60°-70°	1672.4	32.8
70°-80°	877.2	17.2
80°-90°	336.8	6.6
90°-100°	203.5	4.0
100°-110°	128.2	2.5
110°-120°	94.9	1.9
120°-130°	80.8	1.6
130°-140°	52.7	1.0
140°-150°	45.8	0.9
150°-160°	21.0	0.4
160°-170°	8.6	0.2
170°-180°	3.0	0.1
0°-90°	4467.6	87.5
0°-180°	5105.9	100.0



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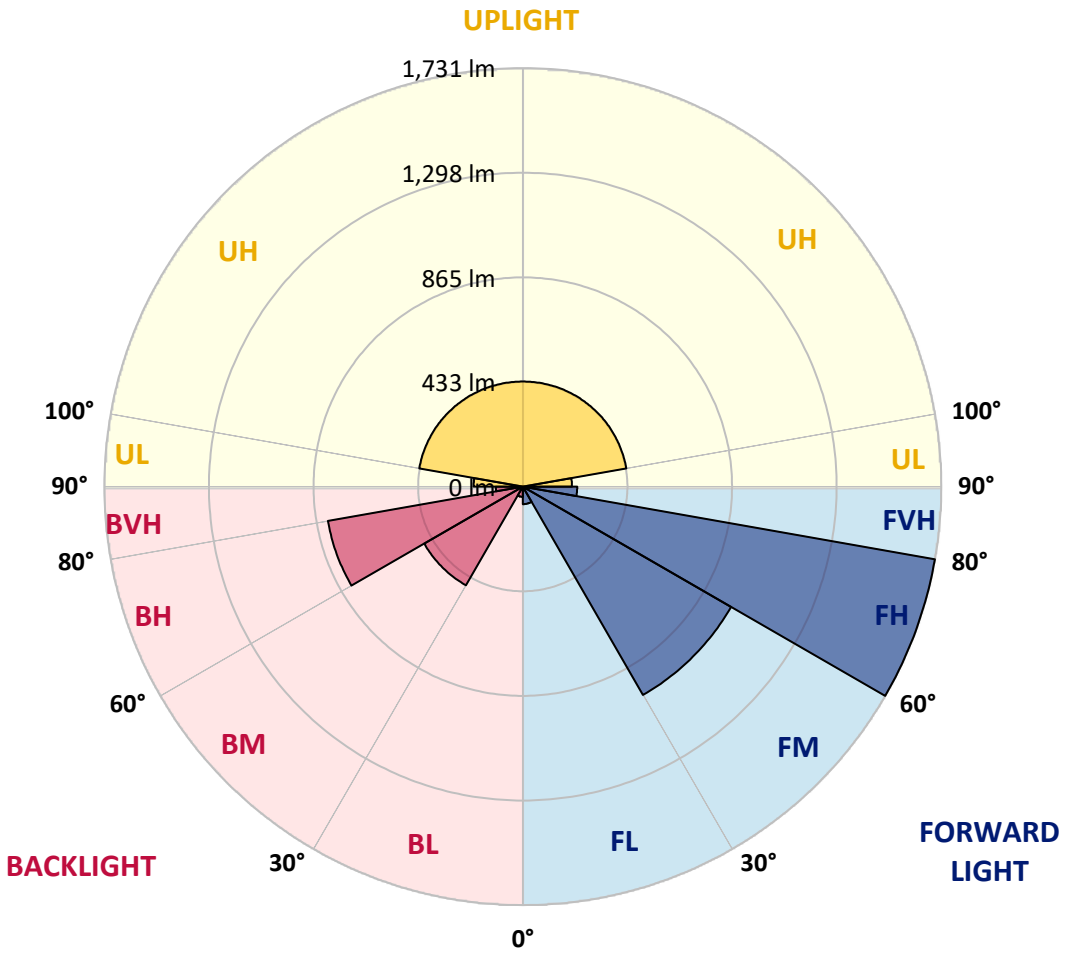
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	72.6	1.4			
FM	(30°-60°)	994.9	19.5			
FH	(60°-80°)	1731.0	33.9			G1/1800
FVH	(80°-90°)	225.0	4.4			G3/500
BL	(0°-30°)	42.5	0.8	B0/110		
BM	(30°-60°)	471.1	9.2	B1/1000		
BH	(60°-80°)	818.6	16.0	B2/1000		G2/1000
BVH	(80°-90°)	111.8	2.2			G2/225
UL	(90°-100°)	203.5	4.0		U3/500	
UH	(100°-180°)	434.8	8.5		U3/500	

BUG Rating: B2-U3-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8
2.5°	92.8	92.8	106.2	108.6	121.3	125.3	118.3	112.9	126.0	152.8	157.2
5°	100.9	102.9	102.5	102.2	102.9	114.9	127.3	121.6	99.9	79.4	79.4
7.5°	114.3	114.9	114.6	114.3	109.9	102.9	99.9	108.9	114.6	97.5	81.8
10°	123.7	123.0	122.6	122.3	123.0	125.7	124.7	113.6	102.5	96.8	93.5
12.5°	141.4	141.7	140.7	140.1	139.4	138.4	137.4	139.7	133.7	117.3	106.2
15°	154.8	154.8	157.5	156.8	156.8	153.5	148.8	142.1	134.0	129.7	120.0
17.5°	168.9	169.2	168.9	168.9	167.5	163.2	158.2	152.1	143.8	136.4	128.0
20°	182.6	182.6	182.3	182.0	181.6	178.3	171.9	163.9	156.2	149.1	140.4
22.5°	197.0	198.0	198.7	198.0	197.0	193.7	186.7	178.9	171.6	161.5	152.1
25°	217.5	217.8	217.1	216.5	215.1	210.8	205.4	197.4	188.3	177.6	165.2
27.5°	236.9	237.6	237.3	237.3	234.6	230.9	225.5	214.8	204.7	192.3	179.6
30°	259.0	258.4	256.7	257.0	255.3	252.3	246.3	236.9	224.2	209.4	195.4
32.5°	280.8	280.8	278.5	277.5	277.5	273.4	266.7	257.0	245.0	229.2	215.5
35°	304.6	310.6	316.7	319.0	319.0	313.3	305.3	292.5	282.2	265.7	248.6
37.5°	418.9	415.2	400.4	402.1	397.1	394.7	389.4	378.7	364.3	339.1	313.0
40°	459.1	458.4	447.4	446.0	443.7	436.0	430.3	422.9	417.9	387.7	348.5
42.5°	466.1	469.8	484.6	488.2	507.3	495.6	472.8	431.3	420.9	398.1	381.7
45°	545.2	546.5	546.5	547.2	542.2	533.5	530.5	504.0	483.2	450.4	419.5
47.5°	624.0	627.0	615.2	624.6	637.7	619.9	611.9	590.1	561.6	536.2	485.6
50°	806.9	818.6	821.0	821.3	827.0	825.7	813.6	783.5	755.0	696.7	640.4
52.5°	1145.7	1157.1	1162.1	1150.1	1132.3	1124.3	1127.3	1114.9	1048.9	986.2	871.9
55°	1588.0	1607.8	1607.8	1620.5	1615.2	1577.0	1574.6	1493.5	1387.0	1317.3	1217.8
57.5°	2179.8	2150.0	2166.8	2184.8	2148.0	2107.8	2047.8	1963.0	1807.2	1686.9	1542.8
60°	2618.5	2606.4	2573.2	2552.8	2460.6	2380.9	2333.6	2271.6	2153.3	1995.2	1802.5
62.5°	2698.9	2707.6	2705.3	2705.3	2631.5	2536.0	2440.5	2349.7	2276.3	2113.5	1961.0
63°	2693.9	2704.6	2708.9	2707.6	2641.3	2547.1	2452.3	2352.1	2284.0	2117.8	1970.4
65°	2651.0	2660.0	2652.3	2649.6	2607.7	2544.1	2437.5	2338.3	2276.3	2098.4	1971.7
67.5°	2478.7	2476.7	2447.9	2461.0	2434.5	2399.0	2299.5	2201.6	2158.7	1964.4	1847.7
70°	2001.9	1987.8	2019.3	2038.1	2009.3	1995.2	1876.9	1812.6	1757.3	1609.5	1515.3
72.5°	1530.4	1501.2	1506.6	1523.7	1487.5	1477.8	1427.2	1374.2	1347.8	1255.6	1151.1
75°	1200.0	1184.2	1155.1	1159.8	1130.0	1120.2	1114.9	1099.5	1089.1	1012.3	908.8
77.5°	897.4	896.7	872.3	868.6	847.1	863.2	856.8	880.0	874.9	814.0	735.2
80°	628.0	624.3	630.7	628.3	623.3	632.7	622.6	635.3	635.3	595.5	562.3
82.5°	409.8	417.2	437.3	442.0	449.4	471.5	436.0	417.2	412.2	407.8	391.7
85°	406.8	408.8	400.1	401.1	397.8	389.4	395.8	398.8	393.7	369.6	334.1
87.5°	383.4	386.0	379.0	381.0	368.6	371.3	375.3	377.7	375.3	353.9	324.4
90°	323.0	326.1	332.4	332.4	333.4	334.1	327.7	331.4	329.1	308.6	287.2
92.5°	286.5	289.2	289.5	289.9	287.2	295.9	285.5	279.1	277.5	261.0	245.6
95°	262.0	259.0	258.4	259.0	257.7	257.4	250.7	246.0	244.0	230.9	215.8
97.5°	205.1	206.8	206.1	207.8	204.4	204.1	198.4	192.3	190.3	179.6	169.6
100°	179.9	179.6	180.3	180.6	178.6	176.3	172.2	167.9	165.5	157.5	147.8
102.5°	168.9	168.6	169.9	170.2	168.6	166.9	163.5	160.8	158.8	151.5	140.7
105°	161.9	160.8	162.5	162.5	158.8	157.8	155.5	155.2	153.8	145.1	134.7
107.5°	152.1	150.5	152.5	152.1	150.8	149.8	147.8	146.4	145.4	138.1	126.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	143.1	140.7	*141.7*	142.4	143.4	142.8	141.1	138.4	135.7	129.7	120.0
112.5°	126.3	127.7	*127.3*	127.3	128.3	128.7	125.7	124.0	122.3	117.6	111.3
115°	120.0	120.0	*120.0*	120.0	117.3	116.3	113.3	111.3	110.9	105.2	101.2
117.5°	114.9	115.6	*117.3*	118.3	121.6	119.6	112.9	108.6	106.9	104.6	100.2
120°	135.4	133.0	*130.7*	130.4	130.7	129.3	128.0	125.0	121.0	114.6	102.5
122.5°	145.1	139.1	*140.1*	139.7	137.4	138.4	138.7	139.1	136.4	126.3	107.6
125°	121.6	120.0	*121.0*	122.0	122.3	122.0	121.3	124.3	120.6	117.3	103.2
127.5°	97.2	96.5	*94.5*	94.2	93.5	93.8	93.8	94.8	91.5	88.1	87.5
130°	92.5	91.1	*91.5*	91.8	91.5	89.5	88.1	86.5	86.1	82.8	78.1
132.5°	83.8	84.4	*90.1*	90.8	94.8	92.5	85.5	80.8	81.4	83.1	81.4
135°	78.4	78.1	*82.4*	82.8	88.8	87.1	81.4	76.1	76.1	80.1	78.4
137.5°	80.1	80.8	*81.1*	81.4	81.1	80.8	80.4	78.1	76.4	76.1	72.0
140°	86.1	85.8	*82.4*	82.8	82.4	82.4	84.4	86.1	80.4	75.4	68.7
142.5°	90.1	91.1	*89.8*	91.5	94.5	91.8	88.5	84.1	80.8	77.4	73.4
145°	122.3	120.0	*119.0*	118.3	116.3	110.6	107.2	102.9	98.9	93.5	86.8
147.5°	110.9	111.6	*109.6*	110.2	107.6	105.6	104.9	105.2	103.9	100.9	93.8
150°	88.1	88.8	*86.8*	85.8	84.8	84.8	84.8	85.5	83.8	81.8	78.4
152.5°	61.7	61.0	*60.3*	60.0	59.3	58.6	58.6	59.0	57.3	56.6	54.0
155°	56.6	56.3	*53.6*	52.9	53.6	54.3	54.6	53.6	52.3	50.9	47.2
157.5°	44.2	43.2	*42.9*	43.6	43.6	43.2	42.6	43.2	41.9	41.6	40.9
160°	36.2	35.9	*36.2*	36.2	36.5	36.5	36.2	36.2	35.5	35.9	35.9
162.5°	30.8	30.8	*30.8*	30.5	31.2	31.5	31.2	31.2	31.5	32.5	33.2
165°	26.5	26.5	*26.8*	26.8	27.1	27.1	27.5	27.8	28.5	30.8	32.8
167.5°	24.8	24.8	*25.1*	25.1	25.5	25.8	26.5	27.8	29.8	32.5	33.5
170°	24.5	24.5	*24.5*	24.5	24.8	25.1	26.5	28.5	30.8	32.5	31.5
172.5°	25.5	25.5	*25.8*	25.8	25.8	27.1	28.1	29.8	31.2	31.5	30.5
175°	26.5	26.1	*26.5*	26.5	26.8	27.8	29.2	29.8	30.5	30.8	31.2
177.5°	25.8	25.8	*25.8*	26.1	26.1	26.5	27.1	27.5	28.1	28.8	29.8
180°	25.1	25.1	*25.1*	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8
2.5°	157.2	152.8	119.0	101.9	116.3	144.4	147.1	127.3	98.9	68.7	62.7
5°	83.8	88.5	98.9	98.5	91.8	85.8	78.4	73.7	81.4	78.1	80.1
7.5°	75.7	71.4	73.1	85.5	83.4	63.3	57.3	56.0	62.7	78.1	76.4
10°	92.2	90.8	85.8	75.7	72.4	75.1	77.4	75.7	69.7	60.7	59.3
12.5°	104.2	102.5	103.2	109.6	101.9	84.4	74.7	71.7	75.1	88.5	91.1
15°	115.9	112.9	108.6	99.5	92.2	87.5	81.8	75.7	77.7	74.1	72.7
17.5°	124.0	119.3	110.2	103.5	96.2	90.1	85.1	78.7	74.4	73.4	73.7
20°	134.7	129.7	120.0	112.3	103.2	95.2	86.5	79.8	75.4	73.7	73.7
22.5°	147.1	141.1	130.0	119.3	109.2	98.9	88.5	81.1	77.1	75.4	74.7
25°	160.2	154.1	140.4	129.0	116.3	104.9	94.2	84.8	80.4	78.4	76.7
27.5°	173.6	166.2	152.5	138.4	124.7	111.3	99.9	90.1	84.1	80.8	81.1
30°	188.3	182.3	166.9	150.8	133.7	118.0	106.9	95.8	88.5	84.8	85.1
32.5°	208.1	198.4	179.9	161.5	144.8	127.3	113.3	100.5	92.5	90.1	90.5
35°	240.9	228.5	206.1	181.0	158.5	138.1	120.3	105.2	95.8	92.2	91.8
37.5°	300.2	283.5	257.7	228.2	195.7	162.5	133.7	110.6	98.9	92.8	91.8
40°	329.1	306.3	273.8	248.3	226.2	197.7	164.9	130.0	103.9	96.2	95.2
42.5°	367.6	348.5	306.3	256.7	227.2	203.4	180.3	157.8	125.3	105.2	101.5
45°	404.8	387.7	354.5	305.9	262.0	224.9	190.3	165.9	145.8	125.3	123.7
47.5°	467.5	449.4	394.1	350.8	304.6	262.4	226.2	186.0	159.8	145.4	145.4
50°	624.6	591.5	536.8	470.5	396.1	327.7	276.5	227.2	195.7	173.9	172.9
52.5°	844.1	797.2	716.8	643.4	555.6	476.5	396.8	311.0	265.1	233.6	233.2
55°	1161.1	1113.2	1005.6	864.6	757.0	662.5	579.7	485.6	413.2	362.2	358.2
57.5°	1499.2	1459.0	1349.4	1174.2	1004.6	837.4	737.2	662.2	627.3	591.8	584.4
60°	1718.4	1649.4	1549.5	1382.3	1218.1	1005.0	880.6	794.5	782.8	775.1	765.4
62.5°	1856.5	1775.0	1626.6	1426.2	1275.4	1073.7	962.4	870.6	843.1	801.9	790.2
63°	*1872.2*	*1783.7*	*1639.0*	*1425.2*	*1277.1*	*1074.7*	*968.4*	*870.6*	*838.4*	*788.8*	*781.1*
65°	1864.8	1782.7	1638.3	1404.4	1238.2	1054.9	951.0	830.7	779.4	713.8	700.7
67.5°	1752.2	1664.8	1528.7	1298.8	1148.7	961.7	847.5	719.8	642.1	577.7	562.6
70°	1426.5	1372.2	1252.6	1053.9	940.0	794.2	694.0	593.8	509.7	442.0	424.9
72.5°	1087.1	1030.1	940.3	811.3	727.2	627.0	532.1	455.1	385.7	340.8	342.1
75°	862.5	808.3	734.2	649.4	580.7	491.6	397.8	321.4	272.1	245.3	242.9
77.5°	694.7	657.1	592.5	514.4	455.1	361.9	278.5	211.8	175.3	159.8	155.5
80°	535.5	509.4	461.1	392.4	330.7	254.3	189.7	149.8	130.4	117.3	114.9
82.5°	381.0	365.3	325.0	277.1	235.2	195.4	166.2	140.1	120.0	108.9	105.6
85°	318.0	303.3	277.8	248.0	221.2	192.0	161.2	133.4	114.6	105.9	101.5
87.5°	308.6	294.9	270.4	238.6	209.4	177.9	146.8	120.6	107.2	98.9	96.2
90°	276.5	266.1	244.6	215.5	186.3	154.1	127.0	108.6	98.2	91.5	88.5
92.5°	238.3	229.2	211.4	187.0	162.5	139.4	118.6	103.2	92.8	86.1	83.8
95°	207.1	201.4	186.7	165.9	148.1	129.0	111.3	96.5	85.8	79.8	77.4
97.5°	165.2	158.5	147.8	133.4	120.0	106.6	93.5	83.4	75.7	71.7	69.7
100°	143.8	139.4	129.7	118.3	106.9	95.2	85.1	77.4	72.4	69.0	67.4
102.5°	135.4	132.4	123.3	111.9	101.2	89.8	79.8	72.7	69.0	66.0	64.7
105°	127.7	125.3	118.3	107.9	97.5	85.1	73.7	67.7	64.3	62.3	61.3
107.5°	119.6	116.9	110.2	100.2	91.1	80.4	70.4	63.0	58.6	56.3	56.0

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

Scaled Data Report

REPORT NUMBER: P1046413
CATALOG NUMBER: FFX-CLB-40-722-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	112.9	110.9	103.5	95.5	86.8	76.7	68.0	60.3	55.3	52.6	52.3
112.5°	105.9	103.5	96.2	88.5	81.1	72.4	64.7	58.0	53.3	50.6	50.3
115°	96.5	94.5	89.1	81.8	75.7	67.4	61.0	55.0	51.3	48.6	48.3
117.5°	97.5	91.8	84.4	77.7	72.4	66.3	60.7	56.0	50.3	47.2	47.2
120°	98.9	93.5	86.1	80.4	77.4	72.7	64.0	57.3	49.6	46.6	46.2
122.5°	97.5	98.2	94.2	88.5	82.4	74.4	63.7	56.3	48.6	46.2	46.6
125°	94.5	97.5	91.8	84.1	76.1	68.4	59.3	52.6	47.9	46.2	45.9
127.5°	85.5	84.8	77.4	71.7	66.0	59.6	54.0	49.9	46.6	44.6	43.6
130°	75.4	75.1	72.0	67.4	61.7	56.0	50.9	48.3	44.9	42.2	41.6
132.5°	79.4	78.4	72.0	64.3	58.0	53.3	49.9	46.9	42.2	39.2	38.9
135°	75.1	74.4	68.0	60.3	54.6	52.3	49.9	45.6	39.9	37.5	37.2
137.5°	68.7	66.0	60.7	56.0	53.3	52.6	49.6	44.6	39.2	36.5	36.2
140°	65.3	63.3	59.3	56.3	53.3	49.6	45.2	40.5	36.9	34.9	34.5
142.5°	69.4	68.7	62.7	57.3	52.6	48.3	43.6	40.5	36.5	33.8	33.5
145°	82.1	78.7	71.4	64.0	60.0	54.3	48.3	41.9	34.5	30.5	29.5
147.5°	89.8	86.8	79.4	71.4	62.7	53.6	44.2	36.2	30.5	27.5	26.8
150°	74.4	73.1	68.4	61.0	53.6	45.2	37.5	31.8	28.1	26.1	26.1
152.5°	52.3	51.9	49.9	45.6	40.9	36.2	32.2	28.8	26.8	25.5	25.5
155°	46.2	45.6	44.2	40.2	36.9	32.8	29.8	27.8	26.5	25.5	25.5
157.5°	39.9	39.2	38.9	35.9	33.2	30.5	28.1	26.5	25.5	24.8	24.5
160°	35.5	34.5	33.5	31.8	30.2	28.8	27.8	26.5	25.5	24.8	24.8
162.5°	33.2	32.5	30.8	29.5	28.8	28.8	29.2	28.5	26.5	25.5	25.1
165°	33.2	32.2	29.8	28.5	28.5	30.2	31.8	30.5	28.8	26.8	26.5
167.5°	33.5	32.8	30.5	29.5	30.5	32.5	34.2	33.8	31.5	29.8	29.8
170°	31.2	30.8	31.2	32.2	33.2	33.5	34.2	33.8	34.5	36.9	36.9
172.5°	30.2	30.5	32.2	33.8	35.9	35.9	34.2	33.8	36.9	40.2	40.9
175°	31.5	32.2	33.8	35.9	37.5	37.5	35.9	36.2	39.2	42.2	42.9
177.5°	30.2	30.5	31.2	30.8	31.5	29.8	30.5	29.8	30.8	30.8	30.8
180°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

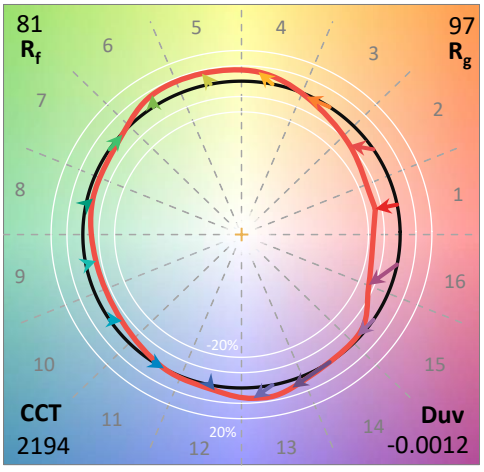
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
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-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

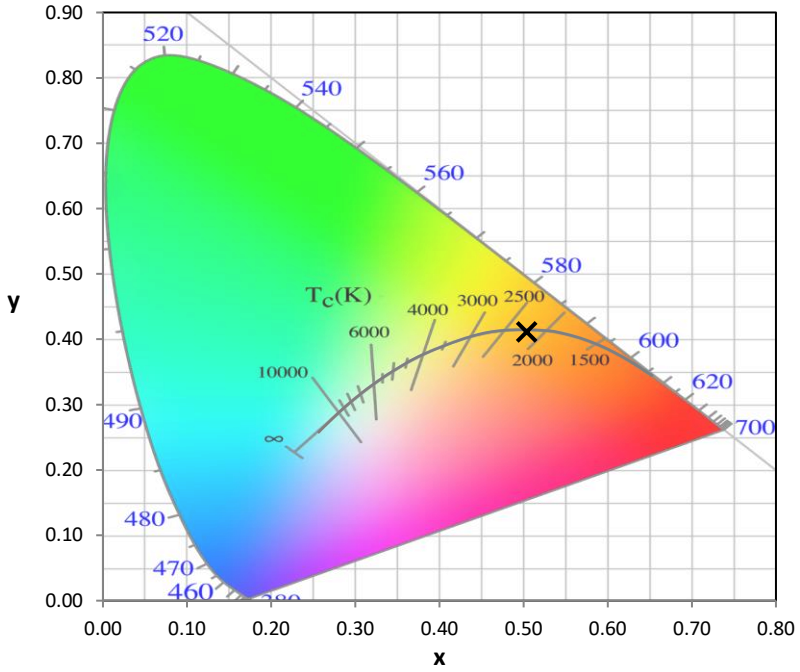
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

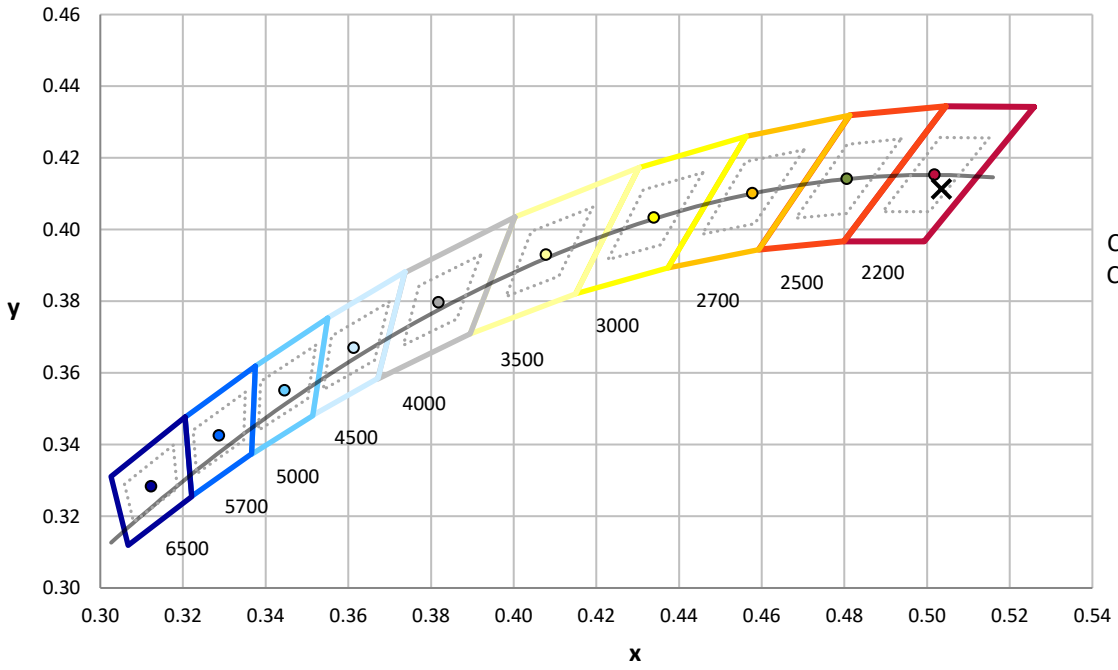
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

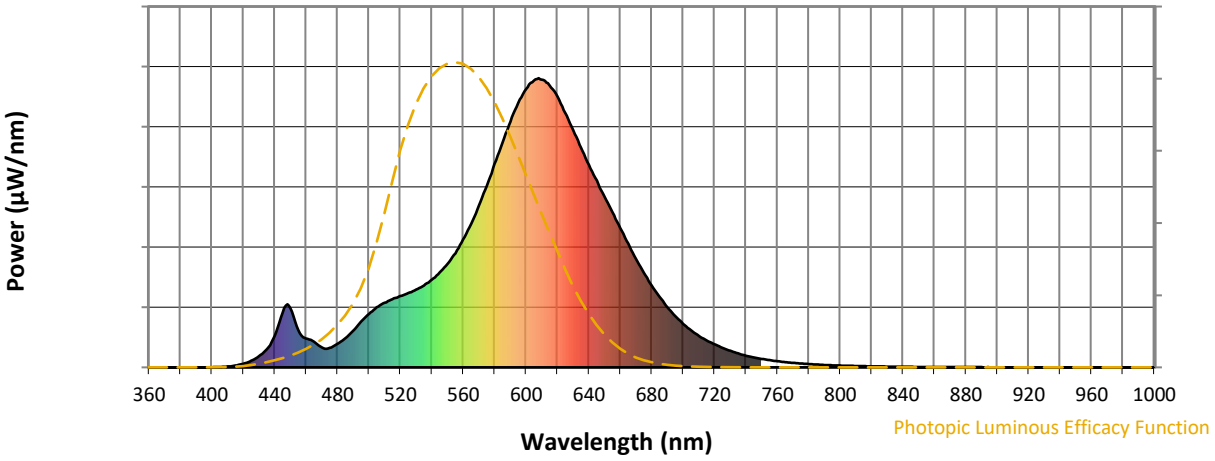


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

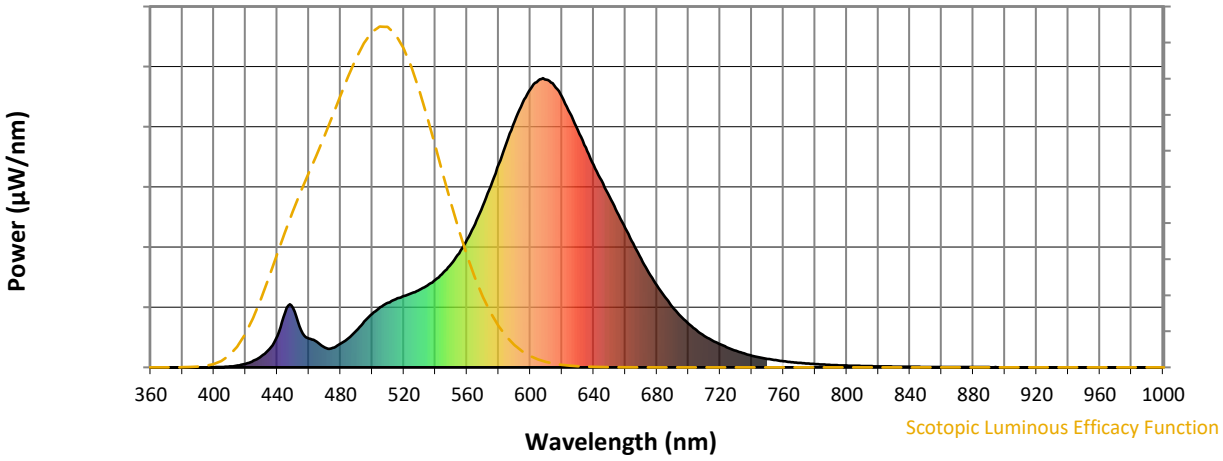


Photopic Lumens: NR

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

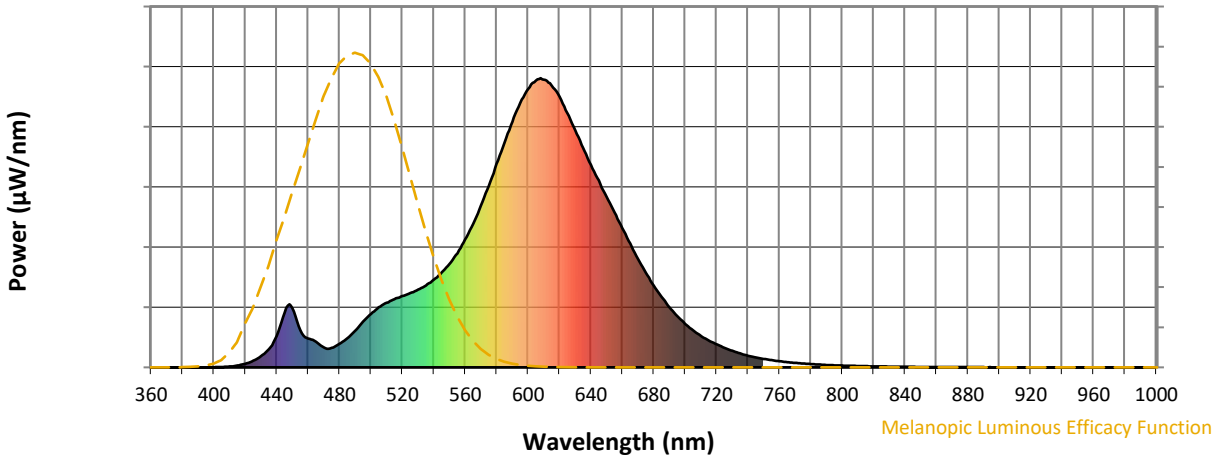


Scotopic Lumens: NR **S/P: 0.96**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

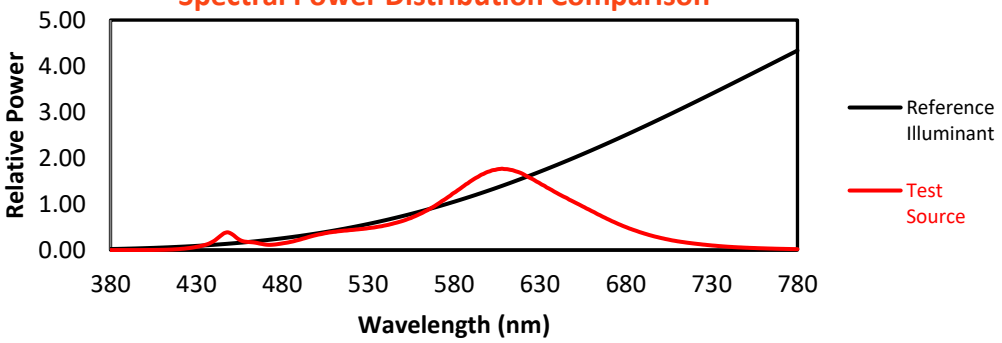
REPORT NUMBER: SP1-2501-332-7

TM-30-18

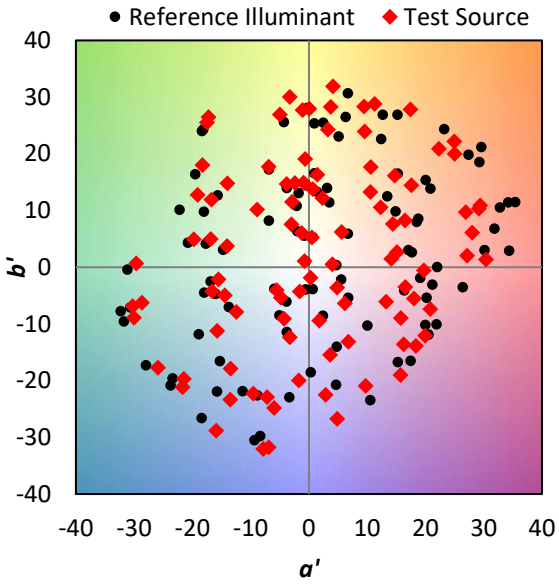
Summary

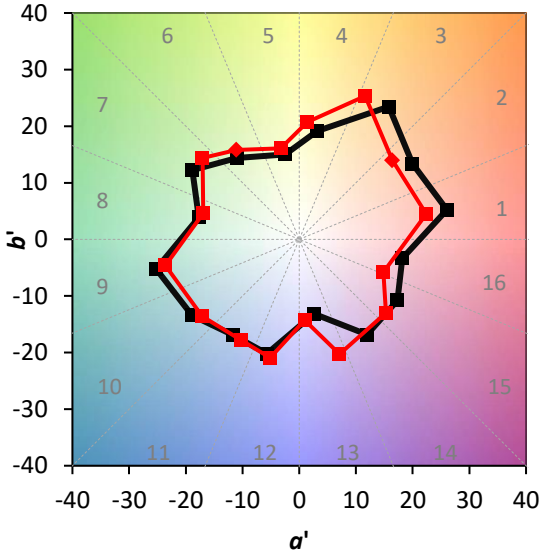
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

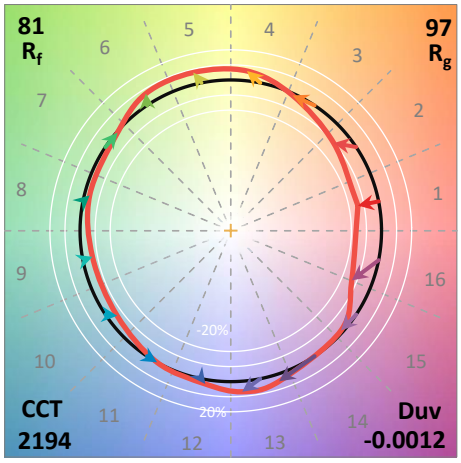
Spectral Power Distribution Comparison

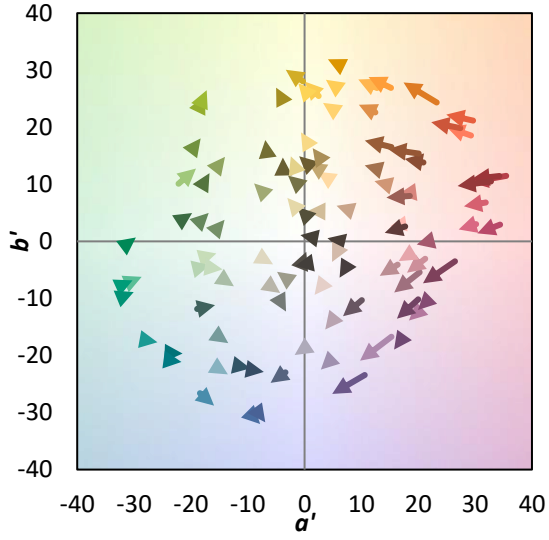


Color Vector Graphics







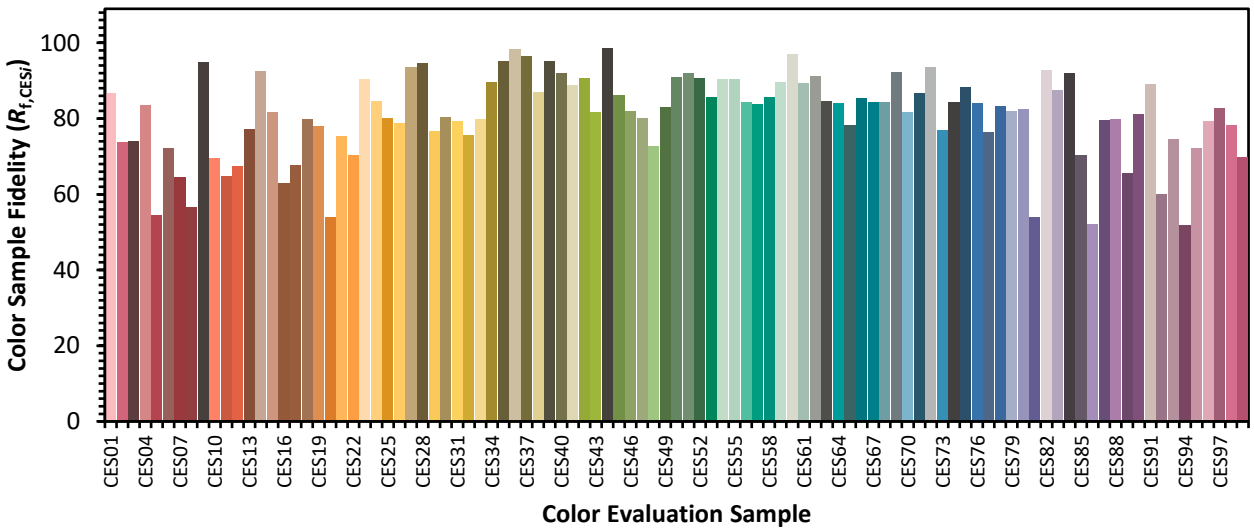


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

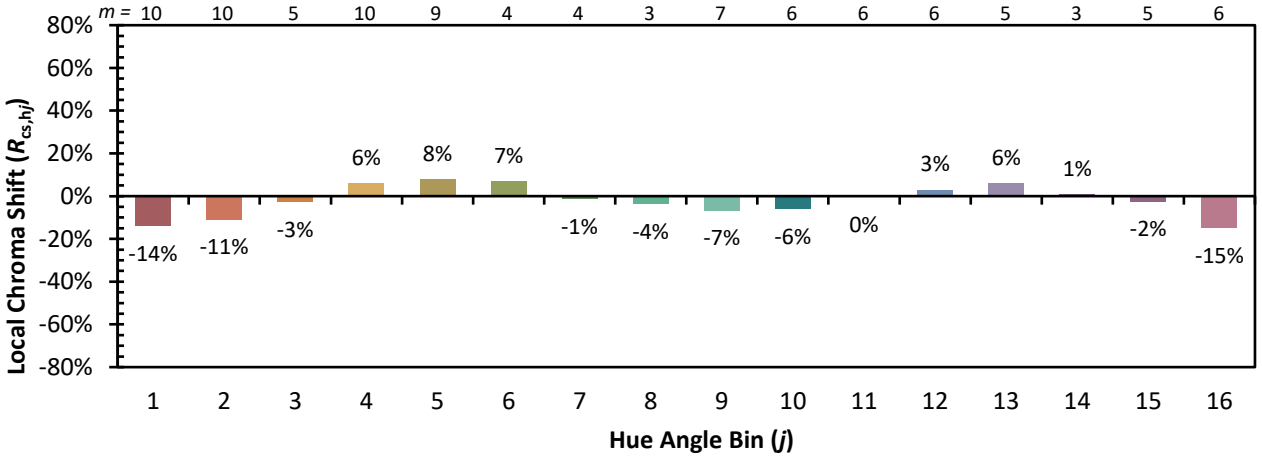
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

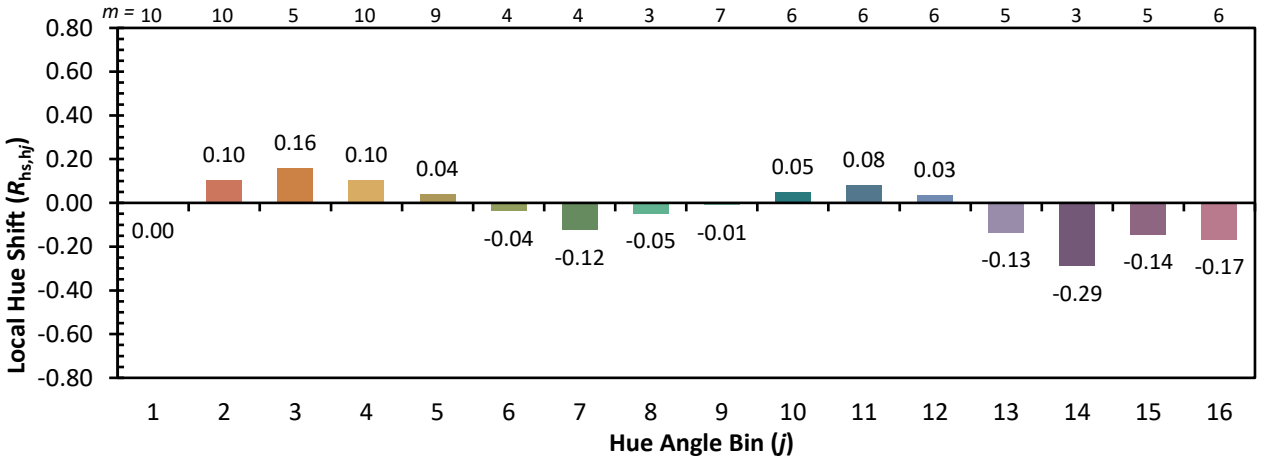


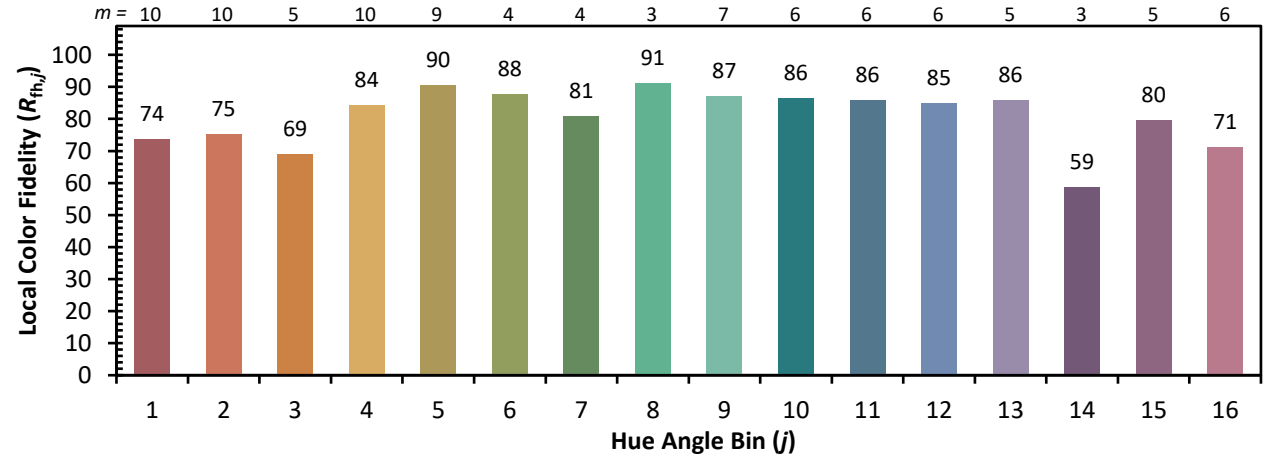
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Color Rendition by Hue-Angle Bin



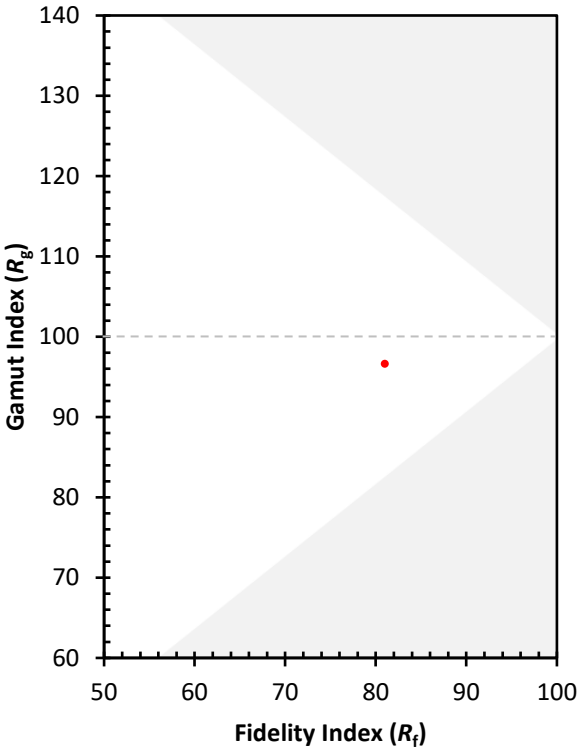


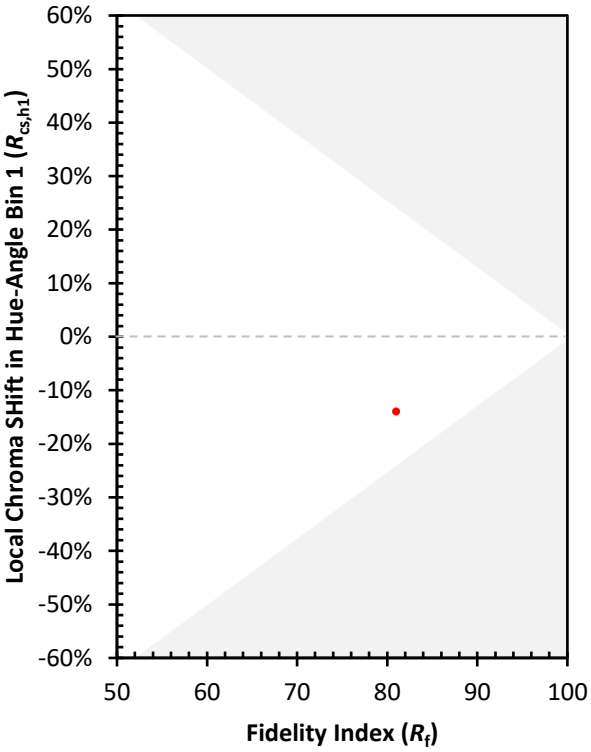


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Measure Comparisons





(END OF REPORT)