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: P1046187

Luminaire Tested: **FFX-CLB-50-722-U-FR-T4-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:	P1046187
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-722-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6144.1 lumens
Efficiency:	N/A
Efficacy:	121.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

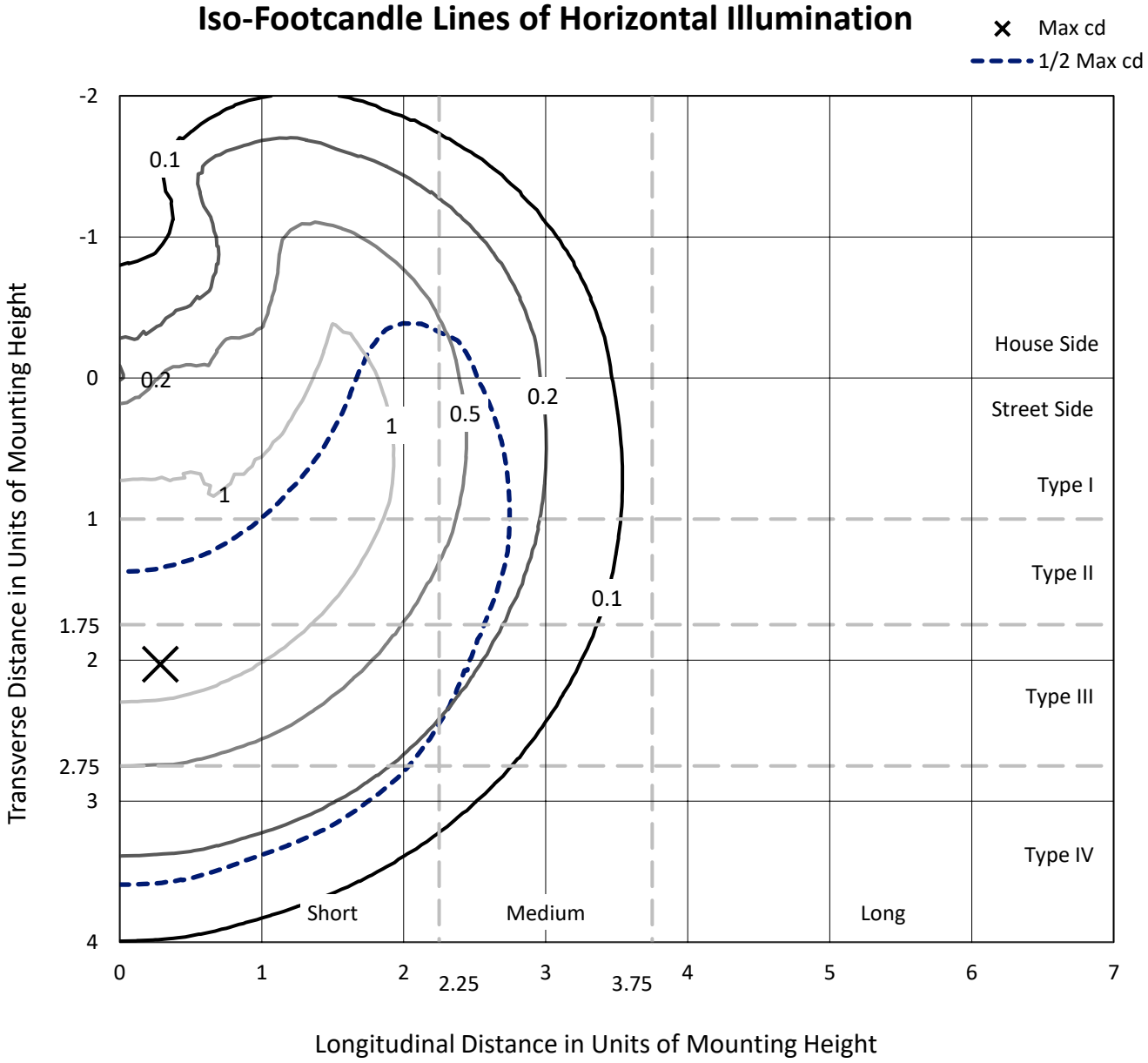


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Iso-Footcandle Lines of Horizontal Illumination



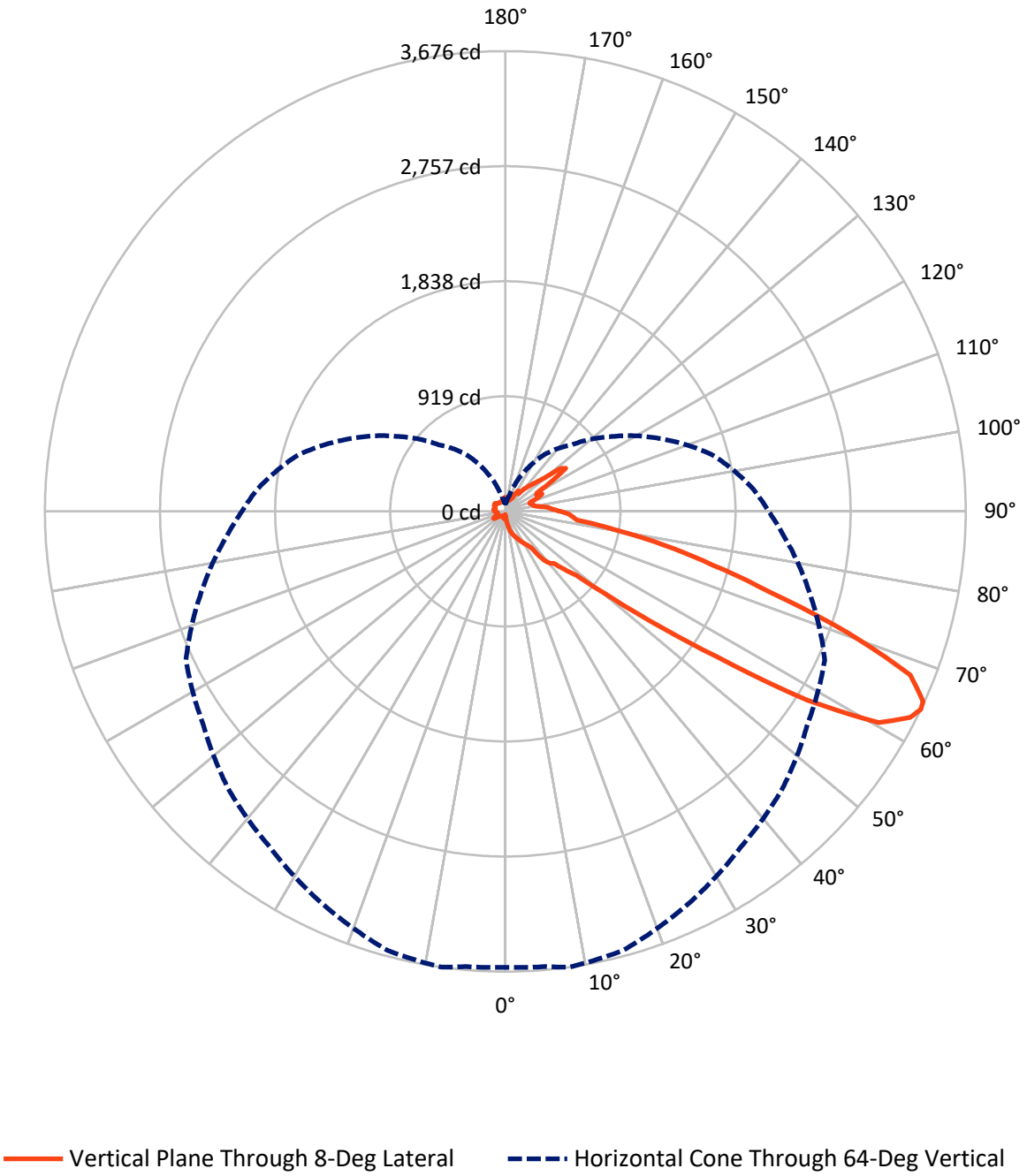
Based on 15 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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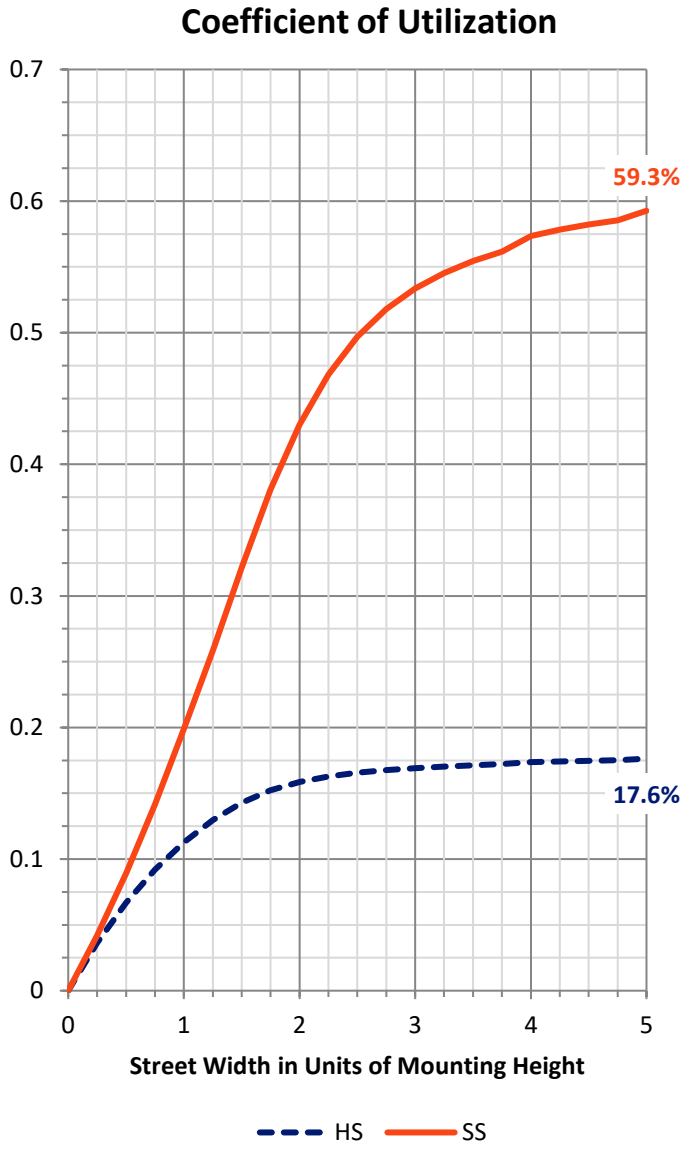
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1123.6	419.7	1543.4
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	3796.9	803.7	4600.7
	% Fixture	61.8	13.1	74.9
Total	Lumens	4920.6	1223.5	6144.1
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	33.8	0.6
20°-30°	73.4	1.2
30°-40°	146.8	2.4
40°-50°	317.7	5.2
50°-60°	1101.3	17.9
60°-70°	1852.5	30.2
70°-80°	1007.4	16.4
80°-90°	381.3	6.2
90°-100°	240.6	3.9
100°-110°	162.3	2.6
110°-120°	175.6	2.9
120°-130°	289.0	4.7
130°-140°	178.0	2.9
140°-150°	93.1	1.5
150°-160°	48.5	0.8
160°-170°	26.4	0.4
170°-180°	9.9	0.2
0°-90°	4920.6	80.1
0°-180°	6144.1	100.0



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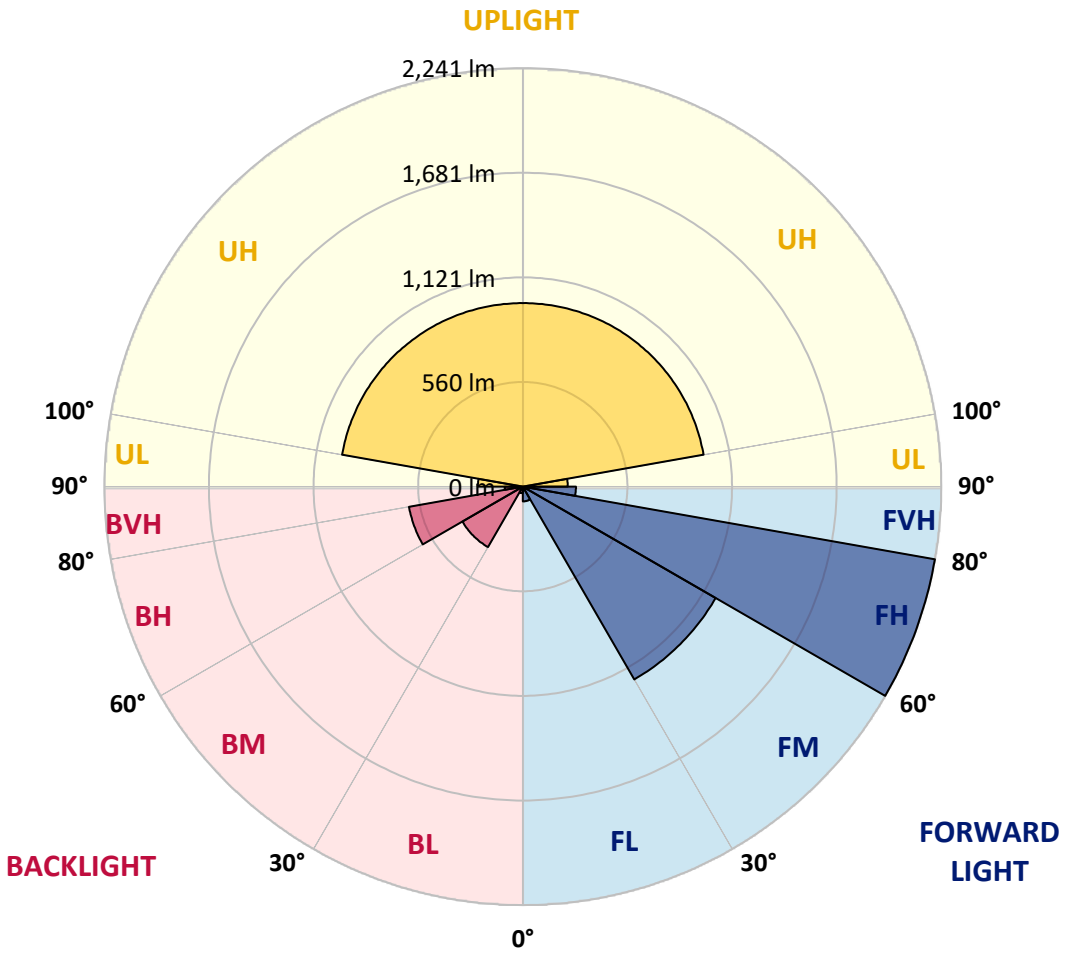
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	79.0	1.3			
FM	(30°-60°)	1192.4	19.4			
FH	(60°-80°)	2241.1	36.5			G2/5000
FVH	(80°-90°)	284.5	4.6			G3/500
BL	(0°-30°)	34.5	0.6	B0/110		
BM	(30°-60°)	373.5	6.1	B1/1000		
BH	(60°-80°)	618.8	10.1	B2/1000		G2/1000
BVH	(80°-90°)	96.9	1.6			G1/100
UL	(90°-100°)	240.6	3.9		U3/500	
UH	(100°-180°)	982.8	16.0		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2.5°	42.9	42.9	42.9	44.2	45.0	45.4	44.2	43.3	42.9	42.5	41.2
5°	61.6	62.0	62.0	63.3	62.4	63.3	61.6	60.3	58.2	55.6	53.5
7.5°	87.1	87.1	86.6	87.1	86.6	84.9	84.9	86.2	82.8	77.7	73.1
10°	118.1	118.9	118.5	116.8	114.3	112.1	112.1	113.8	108.7	99.8	93.0
12.5°	149.5	151.2	149.5	149.9	145.7	144.0	140.6	139.7	132.9	124.4	112.6
15°	172.9	174.1	174.6	175.8	175.4	169.9	163.9	157.6	152.1	144.4	132.1
17.5°	191.6	192.0	192.8	192.4	189.9	184.3	177.5	170.7	161.8	153.8	142.3
20°	209.8	211.5	211.1	210.7	209.4	205.1	197.1	187.3	179.7	167.8	155.9
22.5°	228.5	227.2	228.1	227.7	227.7	223.4	214.9	203.5	193.3	181.4	170.7
25°	250.2	249.7	250.2	248.9	247.2	245.1	234.5	221.3	209.8	197.5	182.6
27.5°	273.1	273.5	274.0	271.8	269.7	266.3	251.0	237.9	225.5	210.2	189.4
30°	298.6	297.3	297.7	294.8	293.5	282.9	268.0	252.3	238.7	218.3	197.9
32.5°	322.0	319.8	319.4	316.9	314.7	299.4	284.2	268.9	252.7	231.9	214.1
35°	354.7	358.9	357.2	357.2	362.7	339.4	321.5	306.7	289.2	267.6	248.9
37.5°	488.0	487.2	482.1	475.3	456.2	439.6	431.5	408.2	380.1	356.4	326.6
40°	552.6	550.0	544.5	530.9	517.3	497.8	485.5	471.0	456.6	414.5	367.0
42.5°	567.9	565.8	567.0	583.2	601.0	586.6	538.6	486.3	460.8	432.4	408.6
45°	651.6	658.8	660.9	660.5	647.7	632.4	611.6	580.2	536.0	495.7	446.0
47.5°	757.7	756.9	762.0	755.2	765.8	739.0	712.3	679.6	633.7	578.9	519.5
50°	1035.5	1026.6	1027.9	1030.4	1014.3	994.7	970.5	952.3	862.6	784.9	694.4
52.5°	1476.8	1478.1	1468.7	1468.3	1420.3	1382.5	1340.1	1341.8	1210.1	1105.6	974.8
55°	2075.7	2076.6	2043.0	2070.6	2016.7	2011.6	1917.7	1796.6	1619.5	1477.2	1345.6
57.5°	2821.5	2847.0	2844.1	2794.8	2712.4	2667.8	2516.2	2389.2	2138.6	1915.1	1736.3
60°	3457.0	3445.1	3425.5	3388.1	3141.4	3037.7	2926.0	2817.7	2610.0	2300.8	2033.2
62.5°	3638.3	3629.4	3626.0	3607.3	3412.4	3241.6	3101.0	2923.9	2785.0	2481.8	2209.1
64°	3641.3	3649.4	3675.7	3631.1	3457.8	3275.6	3129.9	2949.0	2813.9	2514.9	2230.3
65°	3634.5	3632.8	3665.9	3609.4	3455.7	3273.9	3112.1	2938.8	2805.0	2506.0	2224.8
67.5°	3452.3	3445.1	3487.5	3414.9	3280.7	3116.7	2957.9	2771.8	2654.2	2367.1	2094.8
70°	2833.0	2832.6	2898.8	2838.1	2798.2	2624.5	2462.2	2291.5	2165.7	1930.0	1702.4
72.5°	2170.8	2167.0	2211.2	2165.7	2145.4	2063.4	1911.8	1761.0	1641.2	1464.5	1280.2
75°	1730.0	1731.7	1708.3	1663.7	1647.1	1610.6	1543.1	1453.0	1352.8	1192.2	1022.3
77.5°	1295.5	1287.0	1297.2	1234.7	1230.0	1219.0	1218.6	1160.8	1075.9	973.5	838.9
80°	863.5	868.6	886.9	870.3	875.0	871.1	894.9	833.8	769.2	708.9	637.1
82.5°	558.5	572.1	577.2	600.2	620.1	629.0	596.3	534.7	494.4	472.3	440.5
85°	536.0	541.5	538.6	525.0	518.2	507.1	506.7	487.2	466.4	423.9	372.1
87.5°	494.4	500.8	498.2	486.3	471.0	469.8	466.8	453.2	443.4	409.9	364.0
90°	421.8	422.2	424.3	422.2	419.2	417.1	400.1	392.0	386.1	357.2	326.2
92.5°	365.7	370.8	369.5	365.7	355.9	361.9	343.6	328.3	324.9	305.0	281.2
95°	336.0	339.4	340.2	333.4	324.1	322.0	307.9	296.0	290.5	277.4	248.5
97.5°	278.6	276.5	274.8	273.1	266.7	259.9	251.0	236.2	231.5	217.0	200.9
100°	237.9	238.7	237.9	236.6	231.1	227.7	221.3	209.4	204.3	195.0	183.9
102.5°	226.8	227.2	227.2	227.7	218.3	210.7	203.9	195.4	190.7	182.6	172.0
105°	216.6	216.6	217.5	217.9	208.5	197.5	187.7	183.1	180.9	171.6	160.6
107.5°	203.9	203.5	204.7	199.2	189.9	185.2	175.0	169.5	168.6	161.4	149.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	222.6	217.9	*217.0*	203.5	190.7	180.1	175.0	169.9	166.9	157.2	149.9
112.5°	291.4	285.0	*283.3*	270.6	226.0	222.1	217.5	215.8	214.1	200.9	188.6
115°	321.1	321.1	*326.2*	321.1	290.1	254.8	249.7	242.1	245.1	228.9	211.1
117.5°	257.0	274.8	*279.9*	264.6	265.9	243.4	208.5	196.7	190.7	186.0	194.1
120°	288.4	300.3	*295.2*	267.2	254.4	241.3	243.0	238.7	217.5	188.2	191.1
122.5°	429.8	440.9	*444.7*	446.8	452.8	443.9	423.9	395.9	374.6	339.4	319.4
125°	601.9	593.8	*592.9*	596.8	601.4	590.0	581.5	575.9	562.8	516.5	451.5
127.5°	552.6	548.8	*555.1*	554.3	565.8	546.2	542.4	545.4	540.3	514.4	476.6
130°	396.3	403.1	*407.7*	423.0	445.6	428.1	412.0	387.8	386.1	398.8	378.9
132.5°	332.6	335.5	*344.0*	364.0	381.0	373.8	350.0	326.6	324.9	335.5	333.8
135°	293.9	296.0	*297.3*	298.2	295.2	302.0	296.9	288.4	282.9	283.3	278.2
137.5°	262.5	263.3	*262.5*	255.7	247.6	246.3	259.1	259.5	254.4	245.5	238.7
140°	227.7	227.7	*224.3*	219.6	218.3	218.7	226.0	227.2	221.3	214.1	203.9
142.5°	178.0	175.8	*176.3*	183.9	197.5	194.5	185.2	173.3	171.6	180.1	176.7
145°	192.4	192.0	*190.7*	191.1	187.7	182.2	178.8	175.0	168.2	162.7	157.2
147.5°	194.1	192.4	*193.3*	191.6	189.9	187.3	186.0	187.7	186.0	182.2	175.0
150°	153.3	154.2	*155.0*	152.9	154.6	155.5	154.6	153.3	155.5	150.8	147.8
152.5°	119.8	119.4	*118.9*	119.8	119.4	121.1	121.5	121.1	120.2	119.8	115.1
155°	112.6	113.8	*113.0*	110.4	112.1	113.4	115.1	116.4	115.1	113.0	108.7
157.5°	103.6	103.6	*103.6*	103.6	104.1	104.5	106.6	107.5	107.5	106.2	103.2
160°	96.4	96.8	*96.8*	96.8	97.7	98.5	99.8	100.7	101.5	100.7	99.0
162.5°	92.2	91.7	*91.7*	92.2	92.2	93.4	94.7	96.4	96.8	96.0	96.0
165°	89.6	89.6	*89.6*	90.0	90.9	91.7	93.4	93.9	94.3	95.1	95.1
167.5°	92.6	92.6	*92.6*	93.0	93.9	95.1	96.0	96.8	98.5	99.0	99.0
170°	97.3	97.3	*97.3*	97.7	98.1	98.5	99.0	99.8	100.2	101.1	100.7
172.5°	101.9	101.5	*101.9*	101.9	101.9	101.9	101.9	102.4	102.8	102.8	102.8
175°	107.0	107.0	*107.5*	107.0	106.2	106.2	106.2	106.6	106.6	106.6	106.2
177.5°	112.1	112.1	*111.7*	112.1	111.7	111.3	110.9	110.4	109.6	109.6	108.7
180°	109.2	109.2	*109.2*	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2.5°	40.4	38.7	36.5	34.0	31.4	29.7	28.0	25.9	24.6	24.2	24.2
5°	51.0	49.7	47.6	44.2	42.0	38.2	34.8	32.7	30.6	28.5	26.8
7.5°	71.4	70.9	72.2	74.8	71.4	62.4	53.1	48.0	48.4	51.0	52.2
10°	89.6	87.1	87.5	93.4	87.9	70.9	58.2	53.5	56.1	61.2	62.0
12.5°	108.7	104.9	101.9	100.7	88.3	69.2	57.8	52.2	53.5	57.8	57.8
15°	126.1	121.5	114.7	105.8	91.3	74.3	60.3	52.2	52.2	51.8	51.0
17.5°	135.9	130.8	118.5	104.5	88.8	73.5	59.0	51.0	46.7	43.3	42.9
20°	151.2	148.7	132.9	113.0	91.3	71.8	56.9	48.8	44.2	41.6	40.8
22.5°	166.1	158.9	138.5	118.1	93.4	71.4	56.1	48.4	44.2	42.0	41.2
25°	174.1	165.2	144.8	124.0	96.4	71.8	56.9	49.3	44.6	42.5	42.0
27.5°	180.5	171.2	152.1	129.5	100.2	73.5	59.5	50.5	45.4	42.9	42.5
30°	189.0	180.1	160.6	136.3	103.6	77.3	62.4	52.7	46.7	44.2	43.7
32.5°	205.1	194.1	171.2	142.3	107.9	81.1	66.3	56.1	48.8	45.0	45.0
35°	238.7	226.8	196.2	158.4	112.6	84.1	68.8	58.2	50.5	46.3	45.9
37.5°	309.2	294.3	257.0	198.4	124.0	88.3	71.8	59.5	51.4	47.6	46.7
40°	343.2	315.6	273.5	221.7	143.1	95.1	76.5	62.4	52.7	48.0	47.6
42.5°	384.4	361.5	303.7	227.7	158.9	110.9	84.5	66.7	55.2	48.8	48.4
45°	424.7	402.2	350.8	276.9	191.1	135.5	97.7	73.9	59.0	51.0	49.7
47.5°	495.2	458.3	396.7	324.1	235.3	171.6	120.2	84.1	65.4	53.5	51.8
50°	669.8	645.6	551.3	440.0	306.2	223.4	163.5	107.9	72.6	55.2	52.7
52.5°	903.4	857.5	750.5	614.2	444.3	331.7	239.1	160.1	89.2	56.9	53.5
55°	1273.4	1202.0	1078.8	842.7	637.5	502.9	374.2	262.9	135.9	60.7	53.9
57.5°	1668.8	1604.2	1457.3	1164.6	863.9	640.5	492.7	371.2	190.7	69.2	58.6
60°	1933.4	1820.9	1653.1	1370.2	1044.4	753.1	551.3	389.5	197.9	70.9	61.2
62.5°	2085.0	1968.7	1720.6	1395.7	1076.7	778.1	576.8	356.8	158.0	68.8	63.7
64°	*2102.9*	*1990.8*	*1721.5*	*1371.5*	*1042.3*	*752.2*	*559.0*	*334.7*	*137.2*	*68.0*	*65.0*
65°	2088.9	1985.2	1700.7	1342.6	996.0	718.7	537.7	312.6	121.9	67.1	65.4
67.5°	1952.5	1861.6	1563.5	1217.7	885.6	620.5	441.3	240.4	95.6	65.4	64.6
70°	1581.3	1539.7	1285.3	982.4	700.0	494.8	347.9	183.9	81.1	63.7	62.9
72.5°	1186.3	1133.6	959.1	749.7	545.4	384.8	264.2	141.4	71.8	62.0	61.2
75°	951.0	899.6	760.3	590.4	405.6	287.5	195.4	105.8	67.5	61.6	60.7
77.5°	786.2	745.0	625.2	449.4	288.4	206.0	143.6	86.2	66.3	62.0	61.2
80°	604.8	598.0	488.5	327.0	204.3	153.8	116.0	80.7	66.7	63.7	62.9
82.5°	424.3	407.3	344.9	243.4	176.7	140.6	111.3	82.0	70.1	67.5	67.1
85°	349.6	336.4	295.2	234.0	168.2	135.9	110.0	84.1	73.5	71.4	70.5
87.5°	345.7	331.3	292.2	223.8	159.7	129.5	104.9	82.0	73.1	71.8	72.6
90°	313.9	303.3	267.2	206.4	158.4	131.7	109.6	90.5	81.1	76.9	76.0
92.5°	274.8	268.4	243.0	200.5	164.4	139.3	119.4	100.2	91.7	89.2	87.9
95°	240.0	237.4	216.6	182.2	151.6	131.2	113.0	96.4	89.2	85.8	85.4
97.5°	196.7	193.7	177.5	155.0	132.5	115.5	101.9	89.2	84.1	83.7	83.2
100°	179.7	177.5	166.1	151.6	133.8	121.1	109.2	98.5	94.3	94.3	94.7
102.5°	166.1	164.8	154.6	139.7	125.7	113.8	104.1	94.3	89.2	89.2	86.2
105°	155.0	152.9	143.6	131.7	117.2	106.2	96.8	89.6	84.1	82.4	82.4
107.5°	145.3	142.7	135.1	123.6	113.0	102.4	93.9	87.1	83.2	82.0	82.0

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

Scaled Data Report

REPORT NUMBER: P1046187
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	145.7	143.6	134.6	122.3	112.6	104.5	97.7	91.3	87.9	85.4	85.4
112.5°	179.2	170.3	154.6	136.3	125.3	114.7	104.1	95.1	90.9	90.0	89.2
115°	203.0	194.1	174.6	150.8	130.8	116.0	105.3	98.5	94.7	97.3	98.5
117.5°	203.9	187.7	150.4	138.9	124.4	112.1	104.9	100.7	98.1	100.7	100.7
120°	207.7	175.0	155.0	150.4	133.4	116.0	107.9	107.0	104.5	99.4	99.4
122.5°	308.8	279.1	247.2	206.8	171.6	155.0	140.6	115.5	103.6	98.1	97.7
125°	425.6	394.6	344.9	290.9	240.0	186.9	138.9	118.5	106.2	99.4	98.1
127.5°	452.3	428.1	362.7	298.2	226.0	174.1	139.3	121.9	109.6	102.4	101.1
130°	364.9	345.7	301.6	248.9	198.8	161.0	135.9	118.5	106.6	99.4	97.7
132.5°	324.5	306.7	263.3	215.3	176.3	147.0	124.4	107.5	95.6	90.5	90.5
135°	271.4	259.1	220.4	192.0	163.9	139.3	117.2	101.5	91.7	88.8	88.8
137.5°	232.8	223.0	195.4	172.9	151.2	130.0	110.9	98.1	91.3	88.3	87.9
140°	199.2	192.8	176.7	154.6	133.8	113.0	98.1	90.9	87.9	86.6	86.2
142.5°	173.3	168.6	154.2	131.2	110.9	98.1	92.6	90.5	87.5	84.5	84.1
145°	151.6	147.8	131.2	118.1	108.3	103.2	99.0	92.6	85.4	81.5	81.1
147.5°	170.3	164.4	149.9	134.6	118.9	107.0	97.7	89.2	82.4	79.9	79.9
150°	146.5	142.3	133.4	121.5	108.3	97.3	89.2	83.7	81.1	80.7	80.7
152.5°	113.8	111.7	109.2	103.2	94.7	87.5	82.4	79.9	80.7	82.4	82.8
155°	107.0	106.2	103.6	98.1	92.6	85.8	81.5	80.3	81.5	83.2	83.7
157.5°	101.9	101.5	99.4	94.3	89.2	84.9	82.0	81.1	82.4	83.7	83.7
160°	97.7	97.3	94.3	90.5	86.6	83.7	81.5	81.5	82.8	83.7	83.7
162.5°	95.1	94.7	92.6	89.6	87.1	85.4	84.9	84.9	85.4	85.8	85.8
165°	95.1	94.7	92.6	90.0	88.3	88.3	89.2	89.6	88.3	87.5	87.9
167.5°	99.0	98.1	95.6	93.4	93.0	93.4	94.7	94.7	93.9	92.6	92.2
170°	100.2	99.8	99.0	98.1	98.1	98.1	98.5	99.0	99.0	99.4	99.4
172.5°	102.8	102.8	102.4	102.4	102.8	102.4	102.4	103.2	104.1	104.5	104.9
175°	106.2	105.8	106.2	106.2	106.6	106.2	105.8	106.6	107.9	108.7	108.7
177.5°	108.7	108.7	108.3	107.9	107.9	107.9	107.9	108.3	108.3	108.3	107.9
180°	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2

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

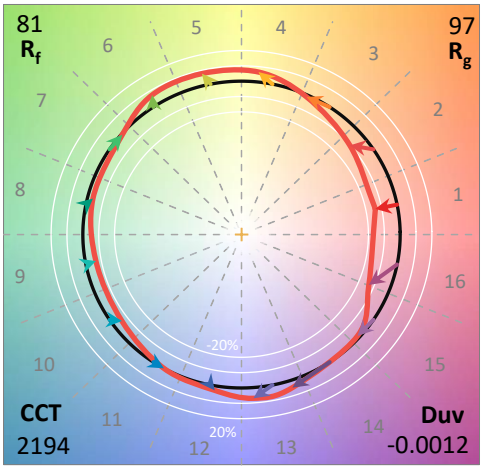
Test Information

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

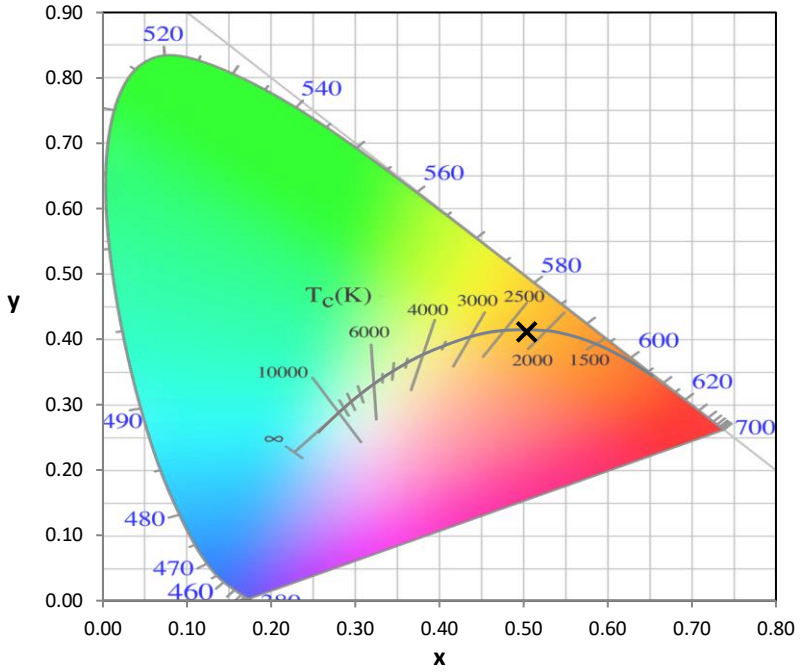
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

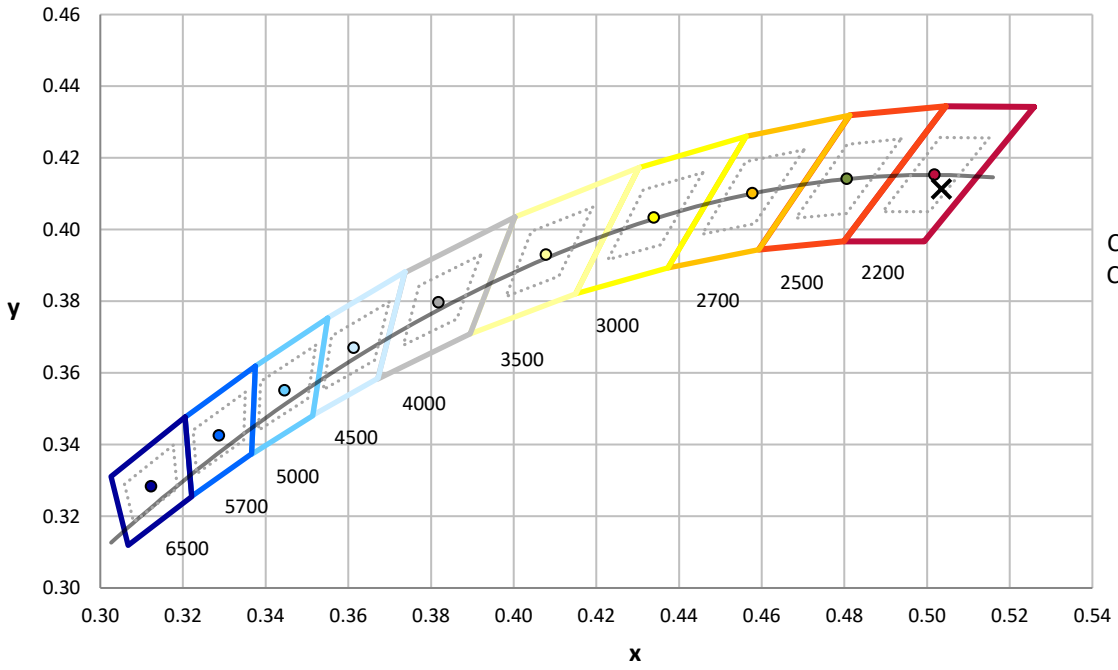
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

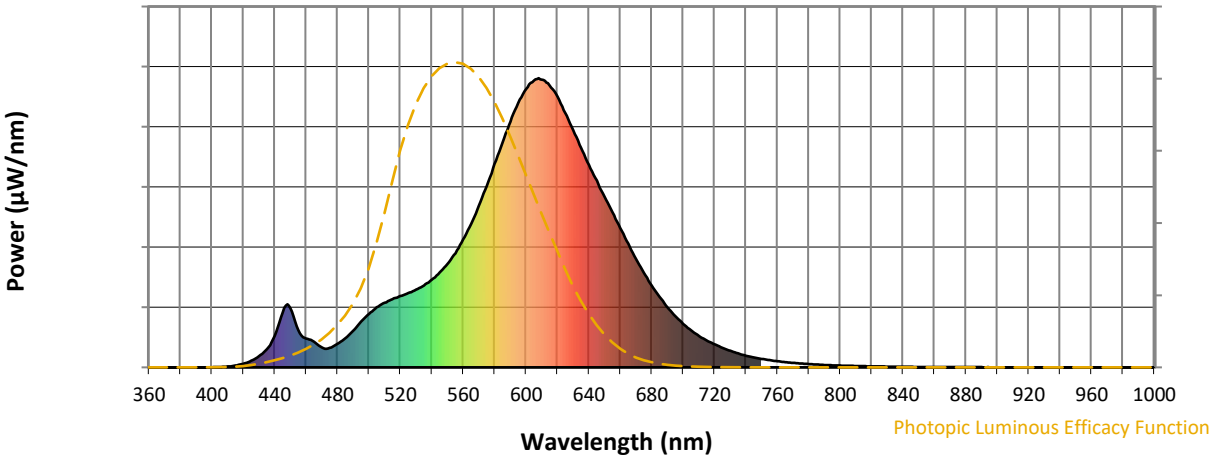


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

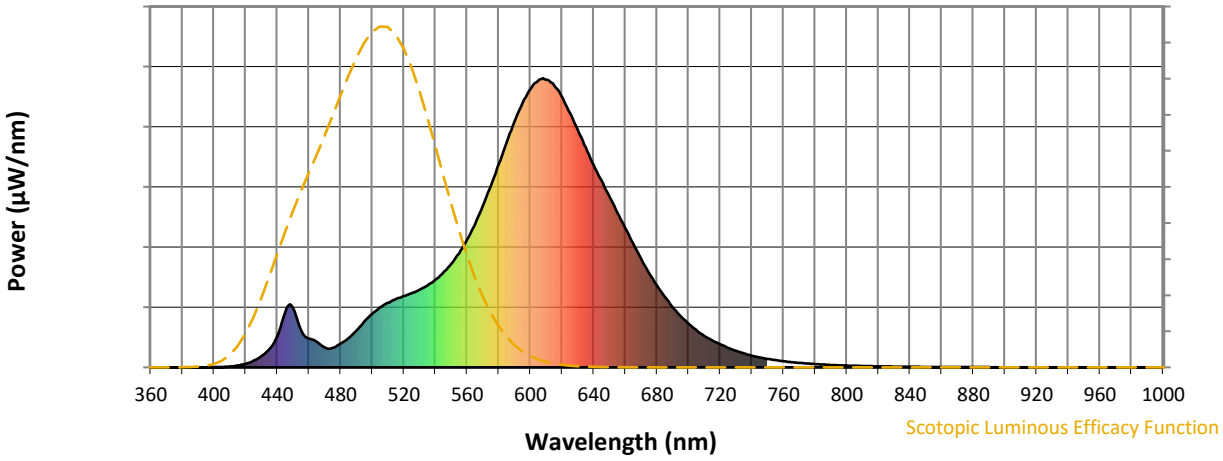


Photopic Lumens: NR

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

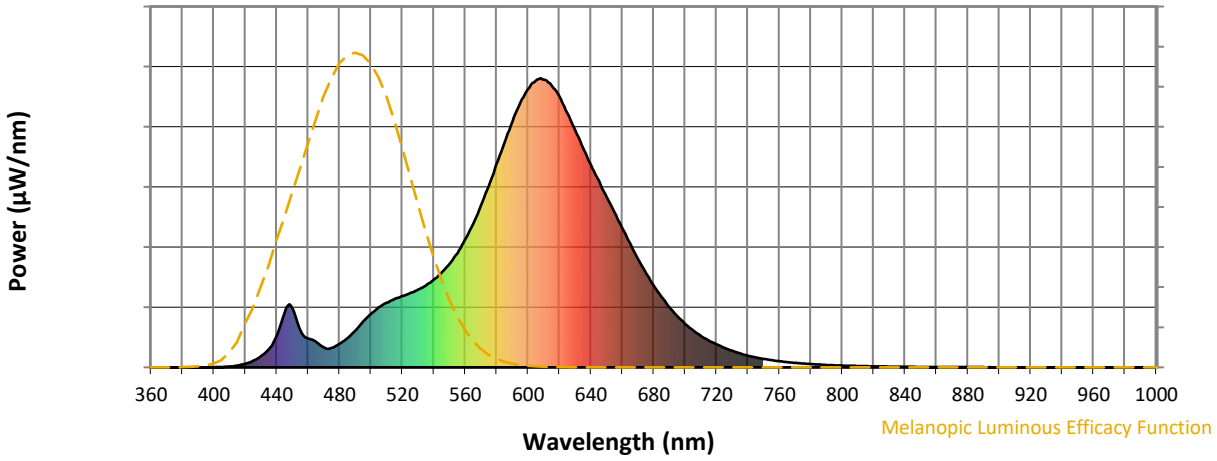


Scotopic Lumens: NR **S/P: 0.96**

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			

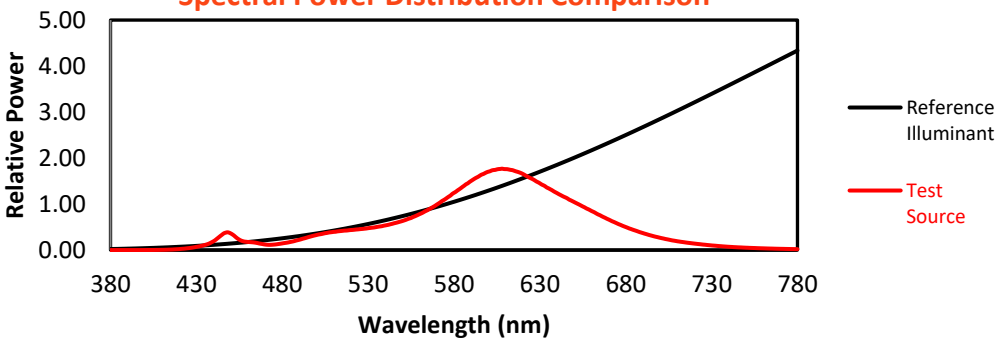
REPORT NUMBER: SP1-2501-332-7

TM-30-18

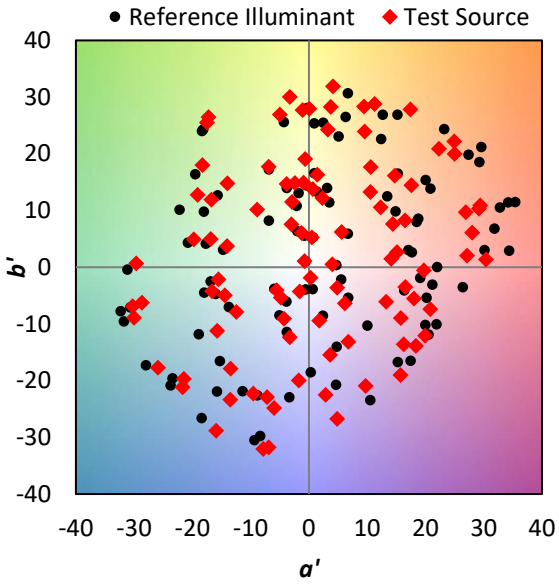
Summary

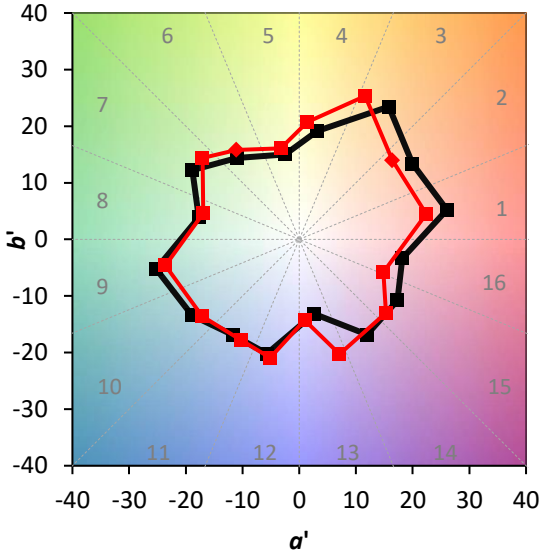
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

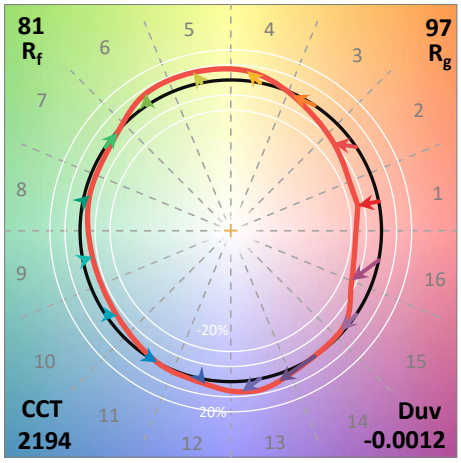
Spectral Power Distribution Comparison

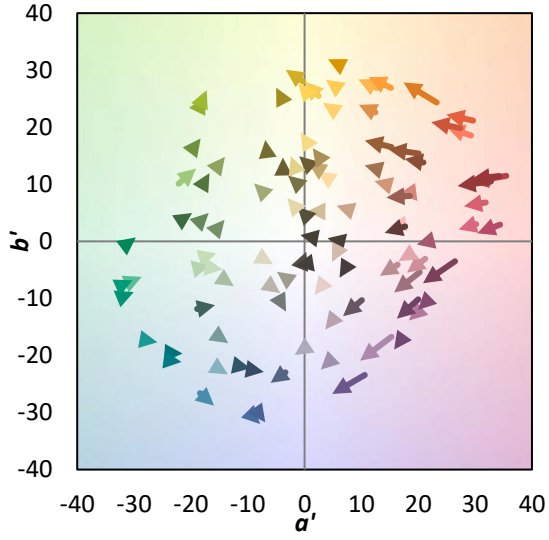


Color Vector Graphics







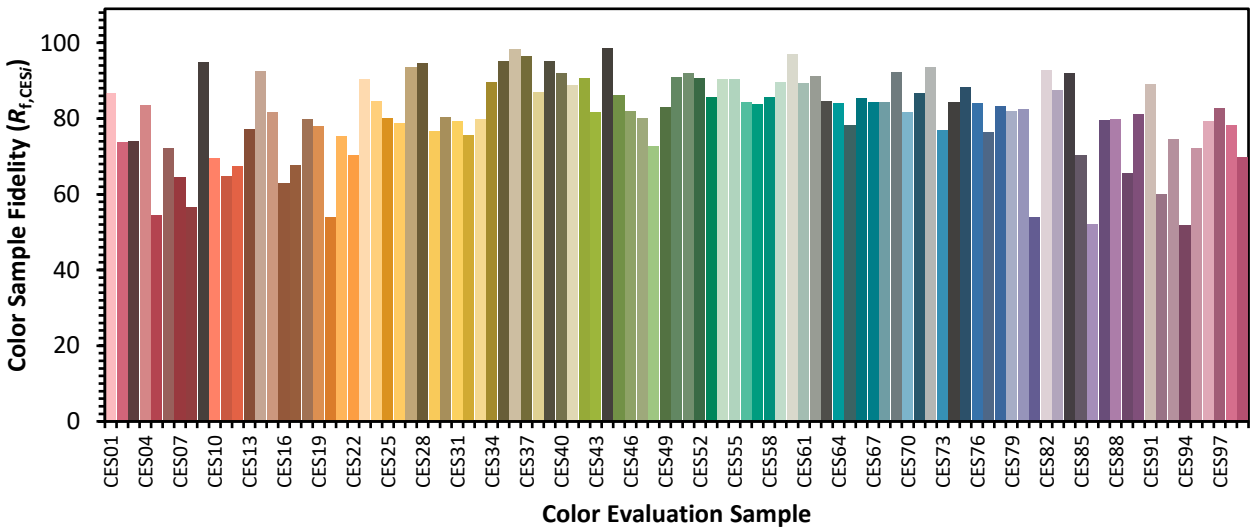


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

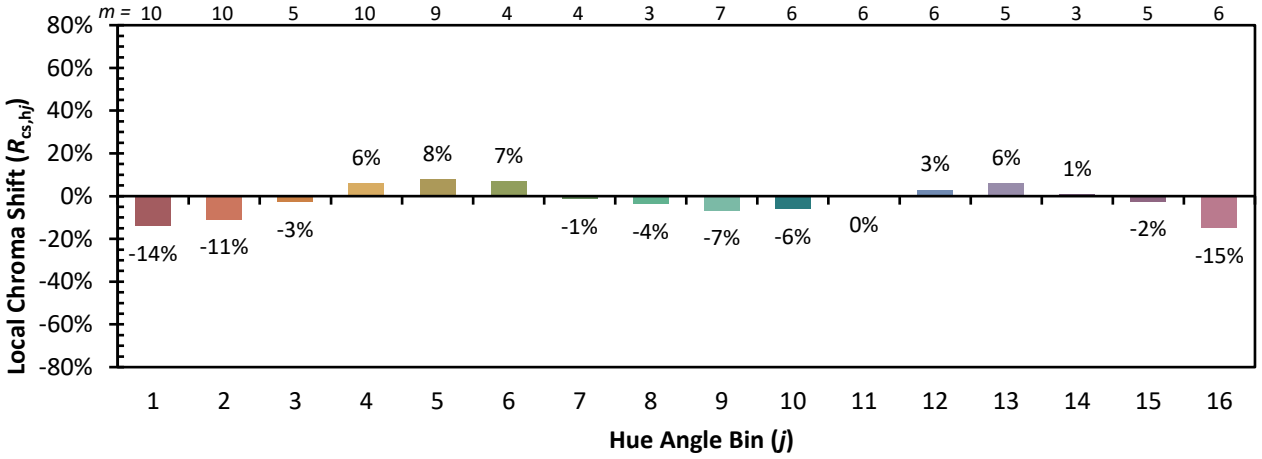
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 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	

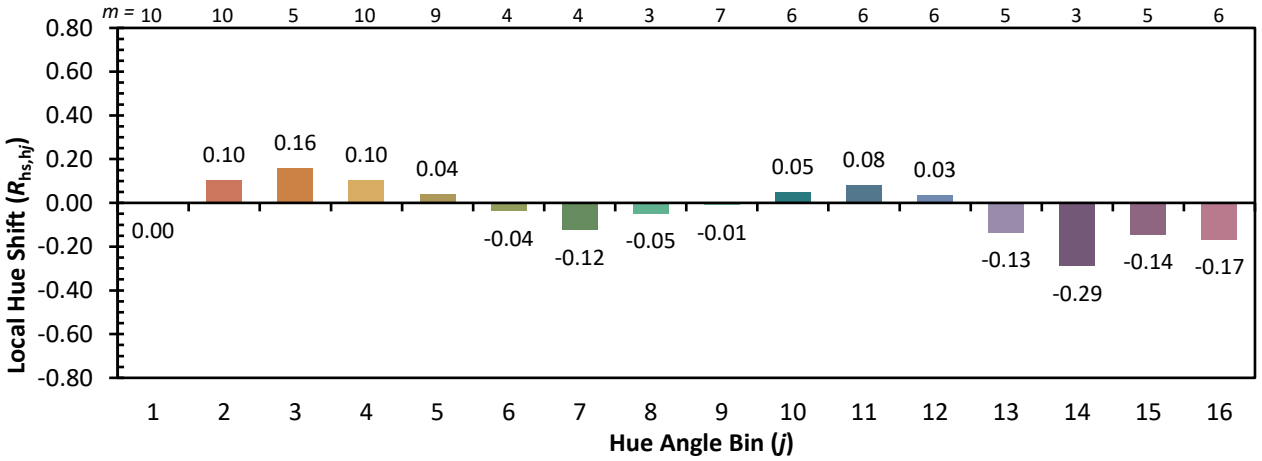


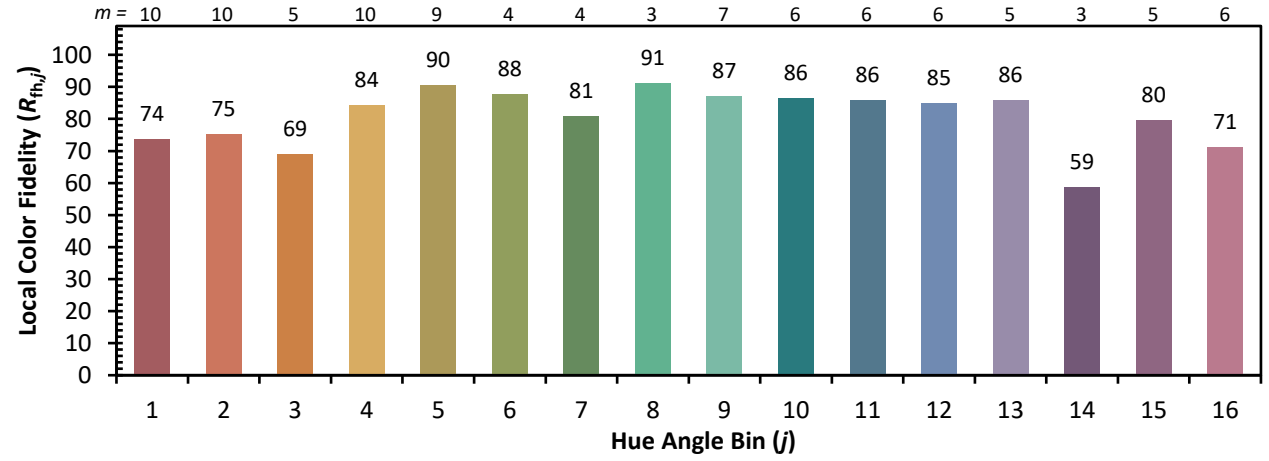
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Color Rendition by Hue-Angle Bin



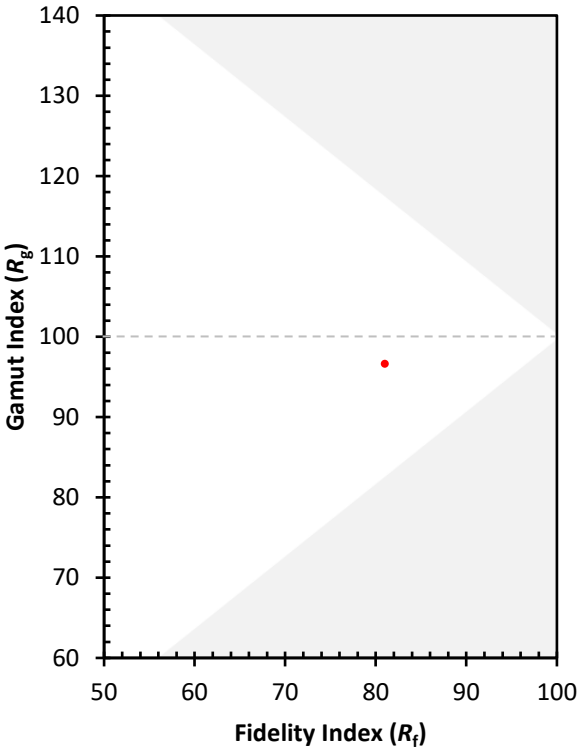


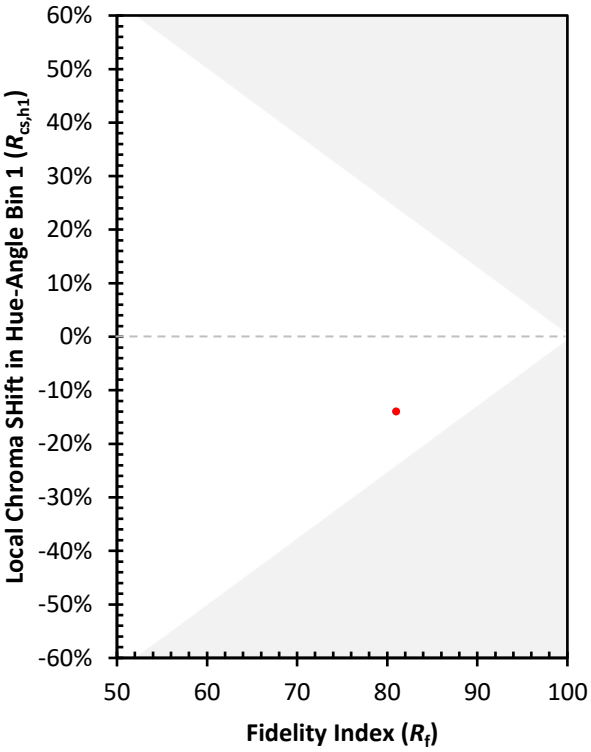


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Measure Comparisons





(END OF REPORT)