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: P1046547

Luminaire Tested: **FFX-CLB-50-722-U-FR-T3-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:	P1046547
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-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5939.1 lumens
Efficiency:	N/A
Efficacy:	117.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - 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

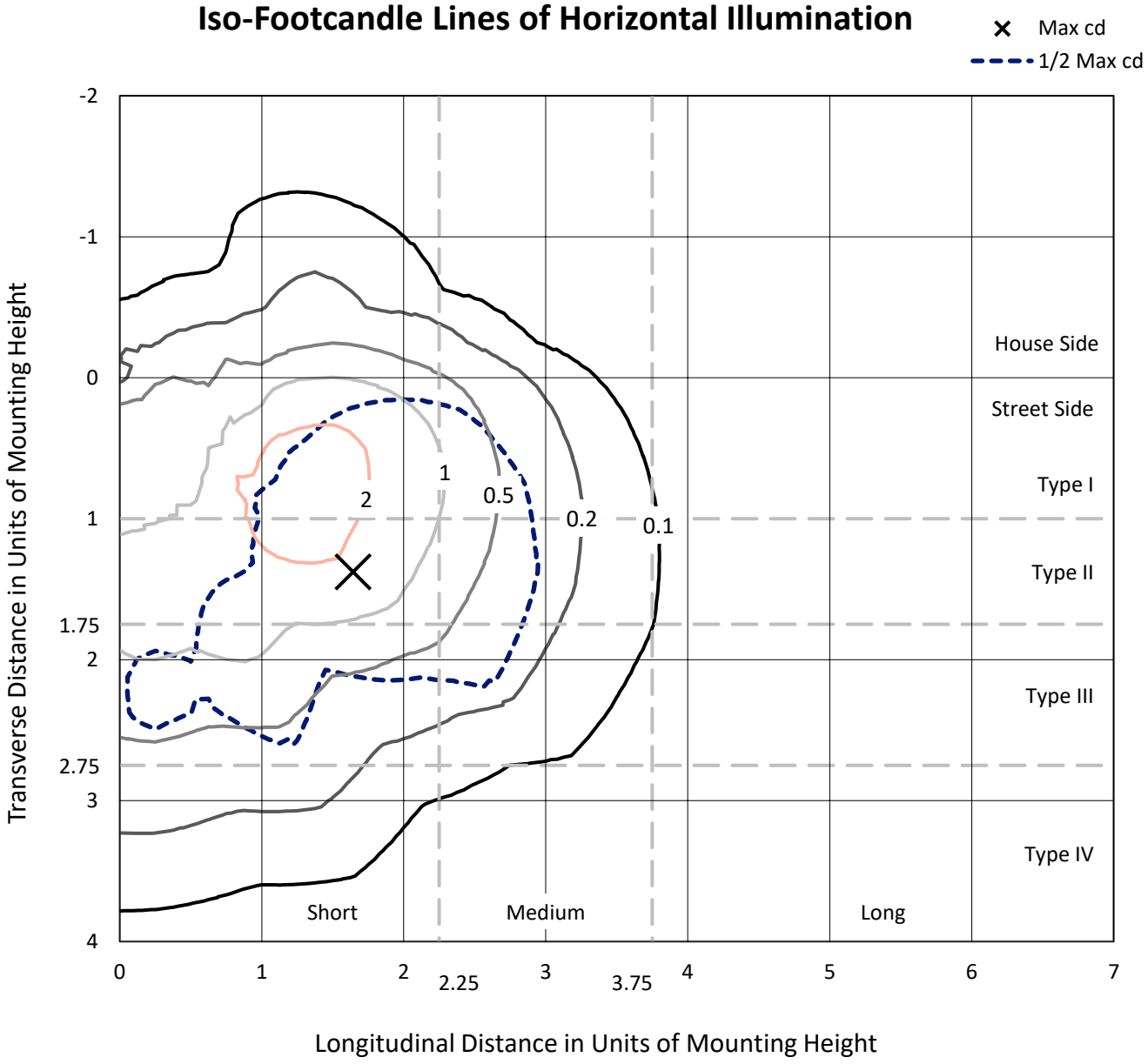


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Iso-Footcandle Lines of Horizontal Illumination



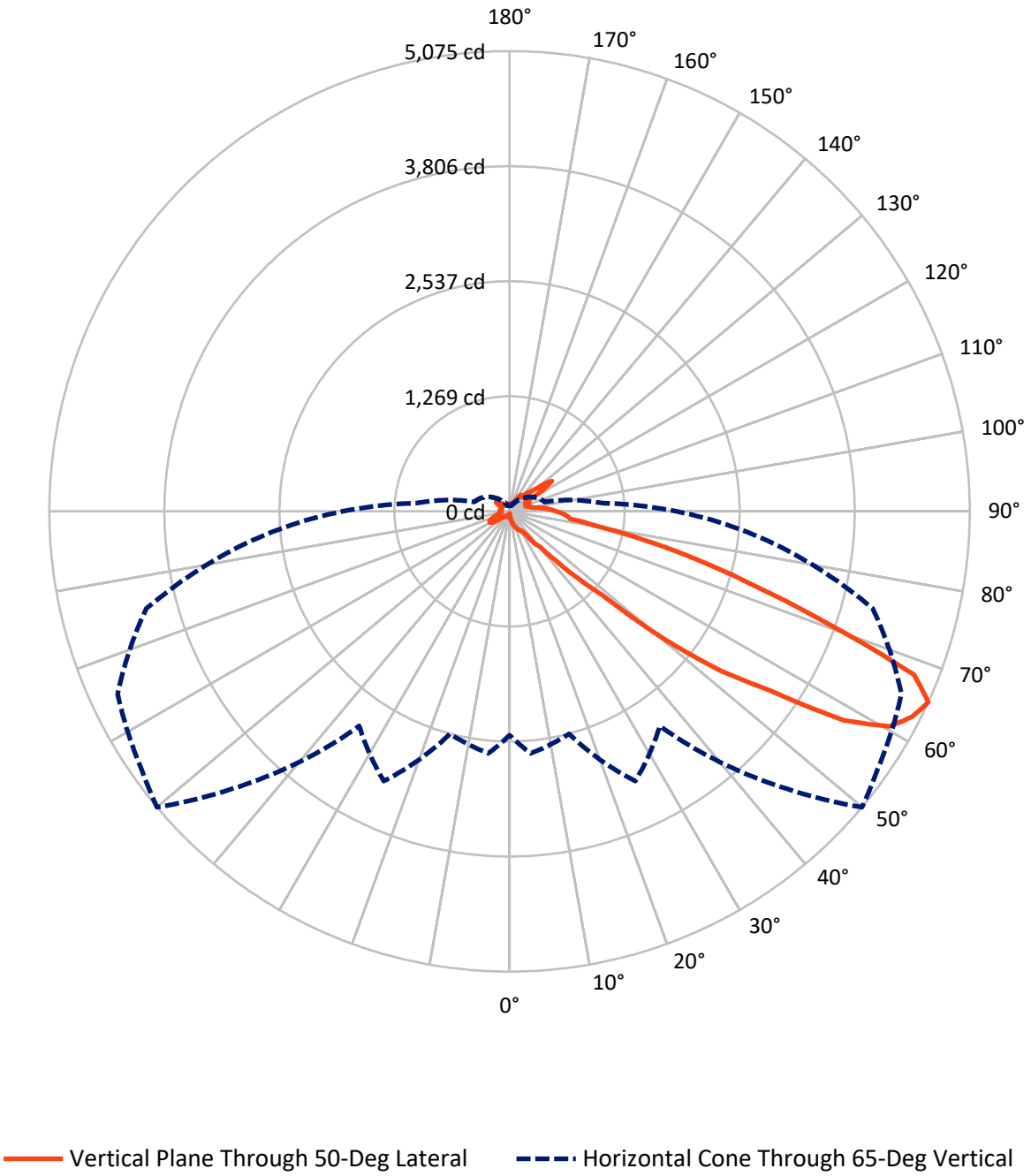
Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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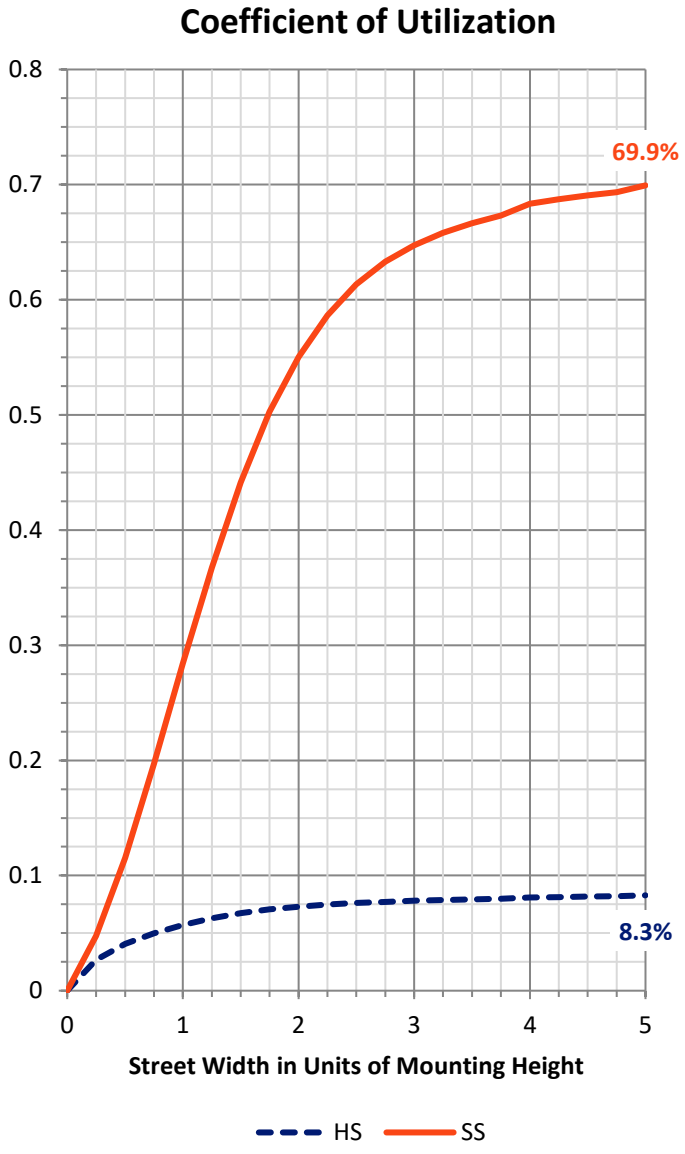
REPORT NUMBER: P1046547
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	521.0	342.9	863.9
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	4296.2	779.0	5075.2
	% Fixture	72.3	13.1	85.5
Total	Lumens	4817.1	1122.0	5939.1
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.1
10°-20°	31.0	0.5
20°-30°	66.2	1.1
30°-40°	132.1	2.2
40°-50°	346.2	5.8
50°-60°	1147.0	19.3
60°-70°	1808.9	30.5
70°-80°	944.6	15.9
80°-90°	335.4	5.6
90°-100°	216.5	3.6
100°-110°	146.0	2.5
110°-120°	166.6	2.8
120°-130°	276.1	4.6
130°-140°	157.7	2.7
140°-150°	86.4	1.5
150°-160°	42.3	0.7
160°-170°	22.4	0.4
170°-180°	8.0	0.1
0°-90°	4817.1	81.1
0°-180°	5939.1	100.0



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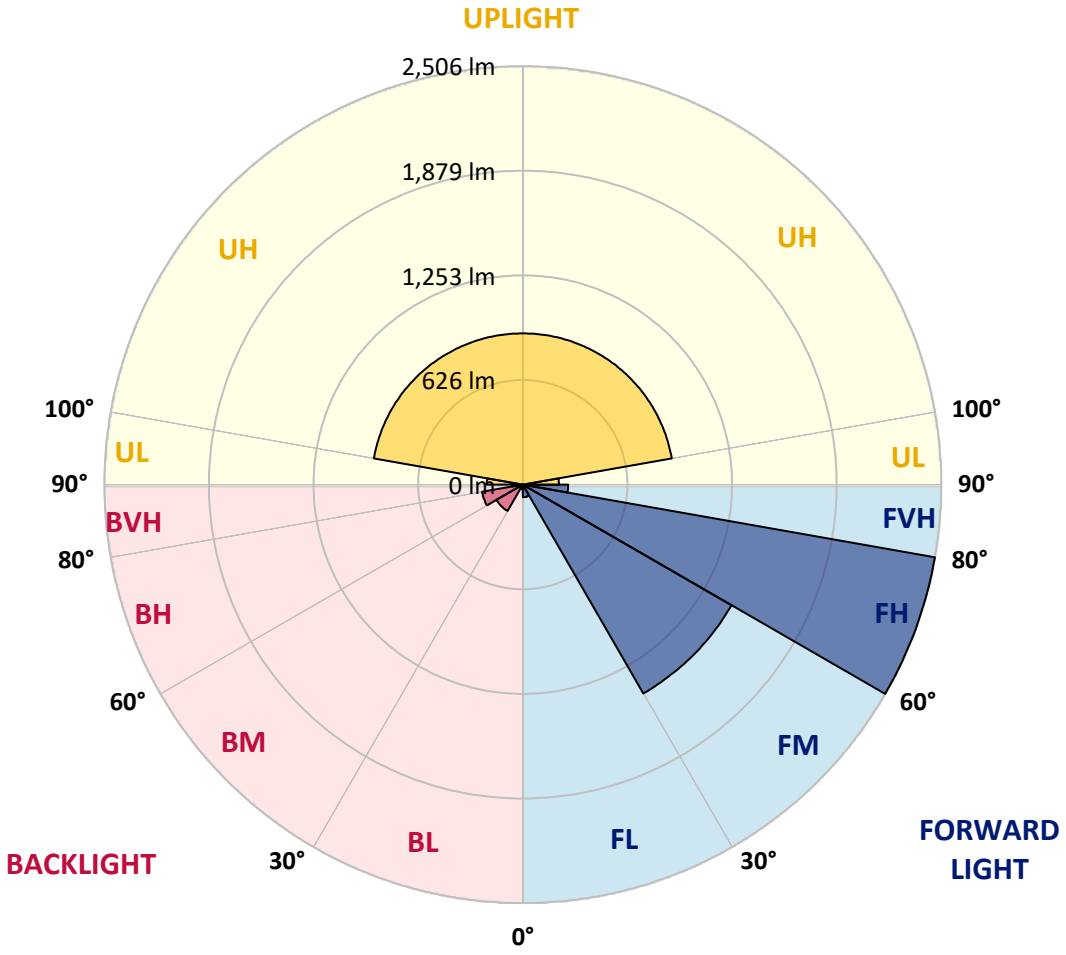
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	75.5	1.3			
FM	(30°-60°)	1443.3	24.3			
FH	(60°-80°)	2505.8	42.2			G2/5000
FVH	(80°-90°)	271.6	4.6			G3/500
BL	(0°-30°)	27.3	0.5	B0/110		
BM	(30°-60°)	182.1	3.1	B0/220		
BH	(60°-80°)	247.7	4.2	B1/500		G1/500
BVH	(80°-90°)	63.8	1.1			G1/100
UL	(90°-100°)	216.5	3.6		U3/500	
UH	(100°-180°)	905.5	15.2		U4/1000	

BUG Rating: B1-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
2.5°	40.3	39.9	40.7	42.0	41.6	40.3	39.5	39.0	37.8	37.4	36.1
5°	59.6	59.2	58.3	59.2	59.6	57.9	57.1	55.0	52.9	49.1	47.0
7.5°	83.5	83.9	84.8	82.7	81.8	78.1	77.2	75.1	71.8	67.2	65.9
10°	113.3	113.7	115.8	112.5	107.0	102.4	101.6	102.4	106.2	94.4	87.3
12.5°	142.7	141.5	147.7	146.1	138.9	132.2	128.9	129.3	127.6	118.8	107.0
15°	170.0	170.0	174.6	176.3	168.7	153.2	148.2	146.9	146.1	136.8	120.5
17.5°	187.2	188.0	188.5	188.5	185.9	172.9	167.1	164.5	157.0	148.6	133.5
20°	201.5	201.9	198.1	198.5	202.3	191.0	185.1	180.1	172.1	163.3	144.4
22.5°	221.2	220.4	214.5	212.0	220.4	210.7	204.4	199.0	189.3	179.2	162.0
25°	243.0	242.2	236.3	230.0	235.9	227.1	220.4	215.3	206.5	199.8	164.5
27.5°	264.0	263.2	253.1	252.3	247.2	243.0	235.9	234.6	227.9	208.2	163.3
30°	279.5	278.7	267.8	268.2	255.2	258.6	248.1	247.2	239.3	213.2	166.2
32.5°	285.4	286.3	281.6	279.5	261.9	275.3	265.7	262.3	260.2	226.7	180.9
35°	306.8	313.5	320.7	323.2	307.2	332.4	312.7	310.2	315.2	275.8	225.8
37.5°	471.8	468.4	442.0	404.6	396.2	451.6	448.7	450.8	447.4	392.5	298.9
40°	472.2	474.3	457.5	434.8	408.4	465.1	508.3	470.1	525.9	427.7	327.8
42.5°	496.1	489.4	529.3	538.1	508.7	593.1	720.7	576.7	697.2	521.3	446.2
45°	587.2	587.2	594.3	598.5	588.1	800.0	1046.8	804.6	931.8	652.3	535.6
47.5°	681.2	673.3	714.0	782.4	823.1	1029.6	1381.8	1063.2	1263.8	876.8	743.4
50°	949.9	961.2	1039.3	1119.0	1179.9	1532.9	2224.6	1821.7	2064.3	1348.2	1135.0
52.5°	1158.5	1224.8	1284.8	1508.5	1535.8	2094.5	2924.3	2444.1	2644.8	1894.3	1405.3
55°	1373.8	1505.2	1540.9	1935.8	1966.9	2691.4	3481.3	3096.0	3152.6	2497.4	1668.5
57.5°	1768.4	1951.8	1963.9	2385.4	2384.1	3467.4	4346.4	4031.6	3988.8	3180.3	2071.8
60°	2107.9	2316.9	2242.2	2826.1	2695.1	4039.5	4815.2	4497.9	4404.3	3728.1	2355.6
62.5°	2314.0	2518.0	2426.1	3116.5	2893.7	4313.2	4984.8	4799.7	4640.2	4059.7	2586.8
65°	2467.6	2677.9	2540.2	3281.5	2889.9	4326.7	5074.6	4955.0	4768.2	4146.2	2637.6
67.5°	2447.5	2652.7	2487.8	3216.0	2688.0	3940.1	4810.6	4661.6	4430.7	3812.5	2466.8
70°	2122.2	2246.0	2064.7	2739.2	2149.1	3047.7	3747.4	3661.4	3439.3	2918.4	1908.1
72.5°	1786.4	1817.0	1647.0	2144.0	1675.6	2220.4	2847.5	2755.6	2609.9	2165.8	1442.2
75°	1379.7	1379.7	1282.3	1607.6	1244.9	1575.7	2155.4	2131.8	2042.0	1625.2	1095.1
77.5°	931.8	883.1	868.4	1085.9	860.0	1039.7	1500.6	1556.0	1532.5	1163.5	798.3
80°	543.1	554.9	534.3	670.3	565.8	680.0	962.9	1035.9	1033.8	772.7	523.8
82.5°	423.5	431.9	410.5	482.7	431.9	535.2	674.9	670.3	686.3	559.9	394.1
85°	417.2	423.5	401.3	446.2	414.7	508.3	634.2	633.0	629.6	518.4	370.2
87.5°	379.4	387.8	368.5	404.6	376.1	464.2	576.3	583.0	573.4	486.1	355.9
90°	317.3	326.1	317.7	359.7	330.3	400.4	501.2	506.2	497.8	433.2	321.1
92.5°	285.4	291.3	281.2	317.7	286.7	351.7	442.8	445.8	432.7	381.1	277.9
95°	263.2	269.1	256.5	283.3	253.1	310.2	376.9	386.6	367.3	321.5	236.7
97.5°	218.7	214.9	209.9	233.0	209.4	244.3	288.4	295.5	283.3	249.3	188.5
100°	189.3	190.6	188.5	205.3	183.8	209.9	244.3	247.2	242.2	217.4	170.4
102.5°	183.4	183.8	187.6	199.0	174.2	193.1	222.5	224.1	222.9	199.4	157.4
105°	181.7	181.3	183.4	195.6	170.0	176.7	204.8	205.7	201.5	185.5	147.3
107.5°	171.7	172.9	172.5	183.4	167.1	167.9	185.9	185.5	184.7	170.0	139.4
110°	196.9	194.8	185.9	186.4	170.4	174.6	192.7	190.6	186.4	177.5	151.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	280.0	274.1	264.0	230.9	214.1	225.8	*238.0*	240.1	235.5	227.5	192.2
115°	310.6	309.8	298.4	276.6	221.2	225.4	*233.4*	236.7	242.2	226.7	196.9
117.5°	254.8	268.6	251.0	253.9	222.5	195.6	*194.3*	187.6	190.6	188.9	182.2
120°	321.5	324.0	288.4	281.6	259.8	268.6	*269.1*	269.9	261.1	218.7	192.7
122.5°	452.1	452.1	462.1	480.6	469.3	453.3	*444.1*	434.8	422.7	382.4	327.0
125°	573.4	572.5	567.1	576.3	565.0	571.3	*574.2*	576.7	563.7	514.6	439.0
127.5°	462.1	473.9	493.6	543.6	512.1	503.3	*494.9*	500.7	491.1	481.9	434.8
130°	358.0	359.3	391.6	423.5	421.0	392.9	*383.2*	366.4	370.2	368.9	340.8
132.5°	306.0	307.7	326.6	344.6	359.7	339.1	*320.3*	311.4	314.4	312.3	294.2
135°	267.4	267.4	260.7	258.6	271.2	290.0	*287.9*	276.6	271.2	264.9	238.0
137.5°	231.3	230.4	218.3	211.5	221.6	246.0	*247.6*	247.6	242.2	227.1	207.8
140°	190.6	189.3	183.0	184.3	186.8	203.2	*204.4*	208.2	207.4	195.2	171.7
142.5°	144.4	144.8	154.0	164.5	170.4	205.7	*200.2*	196.0	209.4	208.6	149.8
145°	192.7	188.5	188.5	183.8	197.7	232.5	*221.6*	225.0	242.6	226.2	162.0
147.5°	176.7	178.8	179.2	178.4	196.0	198.1	*190.1*	190.6	196.9	196.9	165.8
150°	136.8	133.5	134.3	136.0	154.5	153.2	*146.1*	145.6	150.7	149.4	135.6
152.5°	108.3	107.9	107.5	109.1	124.2	117.9	*115.0*	113.7	112.9	111.7	108.3
155°	102.0	101.6	100.7	102.8	111.7	108.7	*107.0*	107.0	104.9	102.8	100.7
157.5°	90.7	90.2	90.7	94.9	99.9	96.5	*96.1*	95.7	94.9	92.3	91.5
160°	84.8	84.4	85.2	88.6	90.7	87.7	*86.9*	87.3	86.9	85.6	87.3
162.5°	80.2	80.2	80.2	82.3	83.1	81.0	*80.6*	81.0	81.4	81.4	83.5
165°	77.7	77.7	78.1	79.3	79.3	78.5	*77.7*	77.7	79.8	80.6	82.3
167.5°	79.3	79.3	79.8	80.2	80.2	79.3	*79.3*	79.8	81.0	81.8	81.8
170°	81.8	81.8	81.8	82.3	81.8	80.6	*80.6*	80.6	81.0	81.0	81.4
172.5°	84.8	84.8	84.8	84.4	83.5	83.1	*82.3*	82.3	82.7	82.3	82.7
175°	89.0	88.6	88.6	88.1	87.7	87.3	*86.9*	86.5	86.5	85.2	85.2
177.5°	91.1	90.7	91.1	91.1	90.7	89.8	*89.0*	89.0	88.6	87.7	87.3
180°	87.7	87.7	87.7	87.7	87.7	87.7	*87.7*	87.7	87.7	87.7	87.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
2.5°	35.3	34.0	30.6	27.7	25.6	24.8	24.8	23.5	21.8	20.6	20.1
5°	46.6	45.8	44.5	42.8	39.0	34.0	29.8	28.1	27.3	26.9	26.4
7.5°	65.9	66.7	68.4	68.0	60.9	47.4	39.5	39.0	43.7	48.7	50.4
10°	85.2	84.4	89.8	94.4	76.8	53.7	40.7	39.5	45.8	54.6	55.8
12.5°	102.0	97.8	94.9	89.8	73.5	53.7	43.7	41.1	44.1	50.8	50.8
15°	114.6	109.1	97.0	85.2	70.5	55.4	45.3	43.7	43.7	41.6	42.0
17.5°	124.2	114.2	96.5	81.4	65.5	52.9	44.9	40.3	37.8	34.4	33.6
20°	135.6	128.4	104.9	83.9	64.6	51.2	43.7	38.2	35.3	34.0	33.6
22.5°	147.7	133.1	110.4	84.8	64.6	52.0	43.2	37.4	34.8	34.0	34.0
25°	149.0	136.4	113.3	88.1	66.7	53.7	44.1	37.8	35.3	34.4	34.0
27.5°	147.3	138.5	118.4	91.9	68.8	55.4	45.8	38.6	35.3	34.0	33.6
30°	153.6	146.5	124.2	94.4	70.9	57.5	47.4	40.3	36.1	33.6	33.2
32.5°	169.6	159.5	132.2	96.1	71.8	57.9	49.1	42.0	36.9	34.0	33.6
35°	211.5	202.3	162.9	102.0	71.8	58.8	50.4	43.2	37.8	34.4	34.0
37.5°	272.4	255.2	200.2	121.7	72.6	60.4	51.6	44.9	39.0	35.3	34.4
40°	288.8	243.9	170.0	109.1	74.3	62.1	53.7	46.6	40.7	36.5	36.1
42.5°	374.8	311.9	209.9	115.4	79.3	63.4	55.0	48.3	42.0	37.8	36.9
45°	401.3	312.3	213.2	133.5	93.2	68.8	57.1	49.5	42.8	38.6	38.2
47.5°	525.9	387.4	217.4	143.1	104.5	79.3	62.1	51.2	43.7	39.5	39.0
50°	771.1	546.5	269.9	178.8	129.3	97.0	73.0	54.6	44.5	40.7	39.9
52.5°	962.0	655.6	292.6	218.7	171.7	128.0	91.9	63.4	47.0	41.6	40.7
55°	1172.7	805.5	332.4	263.6	208.2	160.3	116.7	76.4	52.0	42.8	42.0
57.5°	1462.8	961.6	390.4	311.0	252.7	187.2	133.1	89.4	58.8	45.8	44.1
60°	1639.1	1027.9	399.6	336.6	279.1	208.6	140.2	94.9	65.9	49.9	47.4
62.5°	1807.8	1073.7	402.1	346.7	285.4	212.8	141.0	92.3	68.4	55.8	52.5
65°	*1842.2*	*1028.4*	*402.9*	*348.8*	*277.9*	*201.9*	*136.4*	*89.8*	*65.5*	*60.9*	*61.3*
67.5°	1726.0	913.3	373.6	333.7	257.7	180.1	122.6	86.0	64.6	60.0	61.3
70°	1357.0	715.7	341.2	309.3	218.7	153.2	109.1	81.0	64.6	57.9	56.7
72.5°	1053.5	611.6	349.6	293.8	187.2	136.8	98.6	75.6	62.5	57.5	56.7
75°	817.6	510.4	344.6	258.6	152.8	117.5	88.6	69.3	59.6	56.7	56.2
77.5°	597.7	402.5	285.0	198.1	126.8	99.9	78.1	65.1	57.9	55.4	55.0
80°	384.5	281.6	198.5	158.2	111.2	91.1	73.0	62.1	57.1	55.4	55.0
82.5°	324.0	255.6	178.8	149.8	107.5	92.8	76.4	65.1	60.0	58.3	57.9
85°	311.9	263.2	183.8	156.1	102.8	88.6	74.7	65.1	60.4	58.3	57.9
87.5°	296.3	238.0	181.3	143.6	99.1	85.2	73.5	66.7	62.1	60.9	60.4
90°	268.2	209.9	166.2	133.5	104.5	90.7	81.0	73.9	69.3	66.3	65.5
92.5°	226.2	168.7	142.7	131.8	114.6	102.8	93.2	86.9	81.8	78.9	77.7
95°	190.6	147.3	124.2	116.7	101.2	92.3	83.1	78.5	74.7	72.2	72.2
97.5°	155.3	126.3	115.4	109.6	97.0	87.3	79.8	75.1	73.9	73.0	72.6
100°	146.1	123.8	116.3	111.2	101.2	92.3	86.5	82.3	81.8	81.4	81.4
102.5°	135.6	117.1	108.7	103.7	93.6	86.0	81.8	78.5	77.2	76.0	74.7
105°	128.0	110.8	104.5	97.8	89.8	82.3	78.1	73.0	72.2	71.8	71.8
107.5°	124.2	110.0	106.6	96.1	88.6	85.2	80.2	73.9	72.6	70.9	70.9
110°	137.3	122.1	112.5	99.5	91.5	88.6	87.3	81.8	77.7	72.6	72.2

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

Scaled Data Report

REPORT NUMBER: P1046547
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	170.0	149.4	138.1	118.8	102.4	95.3	89.8	83.9	81.4	78.1	76.8
115°	183.0	162.0	147.7	128.4	109.6	97.0	89.0	88.1	85.6	83.5	85.6
117.5°	187.6	147.3	121.7	117.1	102.8	92.8	89.0	87.7	88.6	88.6	84.8
120°	202.3	159.1	149.4	143.6	116.7	100.3	91.9	96.1	95.3	90.2	90.2
122.5°	301.8	269.5	237.6	198.1	164.5	145.2	116.7	97.8	94.0	90.7	88.6
125°	397.5	368.5	318.6	266.1	208.2	154.0	115.8	102.4	95.3	91.1	91.9
127.5°	405.0	374.4	317.3	253.1	185.9	144.0	116.7	104.9	97.0	92.3	91.5
130°	316.5	294.7	251.8	204.8	157.8	128.9	107.9	96.1	89.0	84.8	83.9
132.5°	280.0	261.5	217.0	175.9	144.0	119.6	101.6	88.6	83.5	80.6	80.2
135°	223.7	208.2	178.4	156.1	133.9	113.7	95.7	83.5	78.9	78.5	77.7
137.5°	196.0	183.4	160.3	141.9	123.4	104.1	89.0	78.9	76.8	77.2	76.0
140°	159.9	154.5	141.5	125.5	105.8	85.6	75.1	71.8	75.1	76.8	76.8
142.5°	137.3	130.1	115.4	97.0	84.4	75.1	73.9	72.6	74.3	75.1	75.1
145°	126.3	117.9	105.8	99.1	93.2	85.2	78.5	72.6	70.9	71.4	71.4
147.5°	142.7	133.1	125.1	112.5	98.2	84.8	74.7	68.0	68.0	69.7	70.1
150°	118.4	110.0	104.5	97.4	86.5	75.6	68.4	65.1	66.3	69.7	70.1
152.5°	99.1	89.0	85.6	81.4	75.6	69.7	66.3	64.6	66.7	69.3	69.3
155°	96.5	87.7	83.5	79.3	73.9	68.8	65.9	65.1	67.2	68.8	69.3
157.5°	90.7	85.6	80.2	76.8	72.6	68.8	66.7	65.9	67.6	68.8	69.3
160°	87.3	84.4	78.1	75.1	71.4	68.8	68.4	68.4	69.3	69.7	69.7
162.5°	83.5	81.8	78.1	75.6	73.0	71.8	72.6	73.0	73.0	72.6	72.6
165°	82.3	81.4	78.1	76.0	74.7	75.1	76.8	77.2	76.0	75.1	75.1
167.5°	81.8	81.8	79.3	77.7	77.2	78.1	79.8	79.8	78.5	76.8	76.4
170°	81.8	82.3	81.4	81.4	80.6	81.0	81.4	81.4	80.6	79.8	79.3
172.5°	83.1	83.1	83.1	83.1	82.7	83.1	83.5	83.5	83.5	83.1	83.1
175°	85.2	85.2	85.2	84.8	84.4	84.4	84.8	85.2	85.6	85.6	85.6
177.5°	87.3	86.9	86.5	86.9	86.5	86.5	87.3	87.7	88.1	88.1	88.1
180°	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7

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

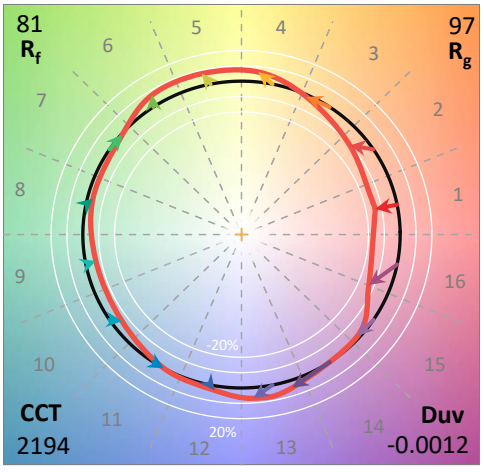
Test Information

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

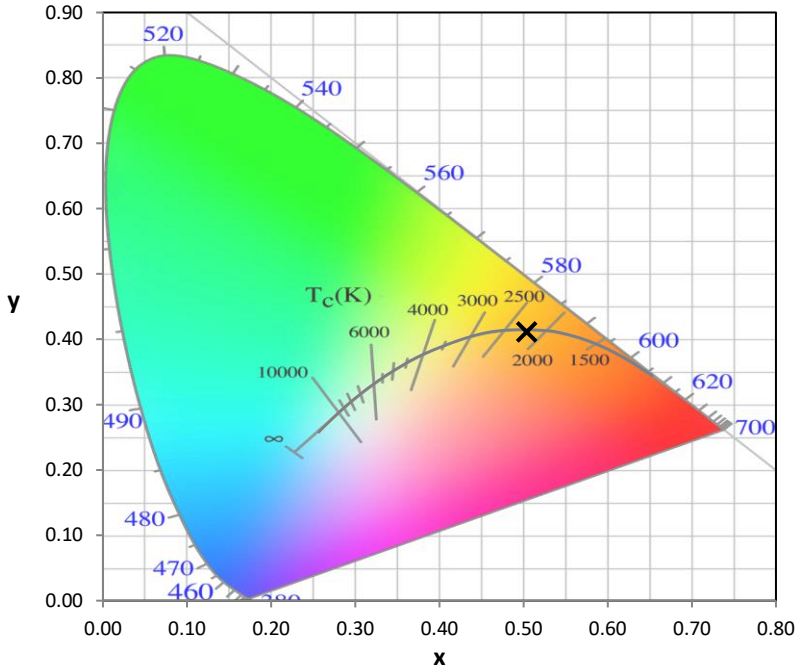
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

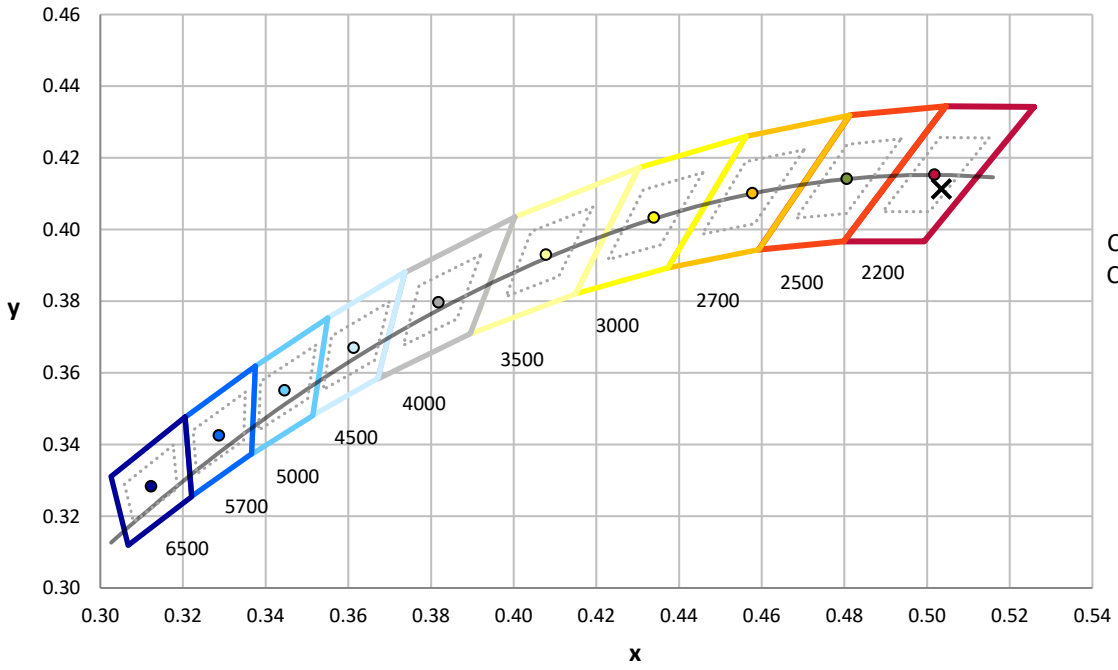
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

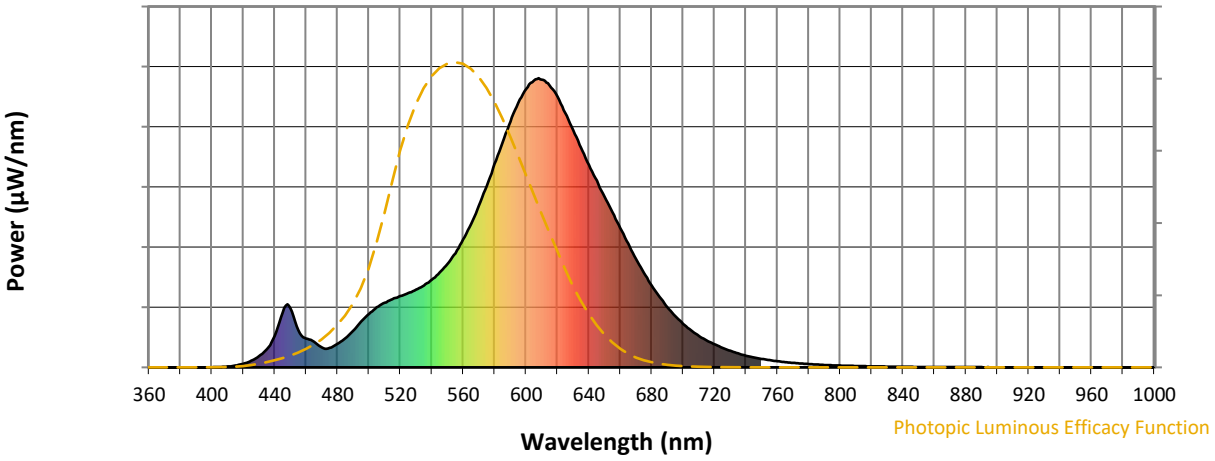


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

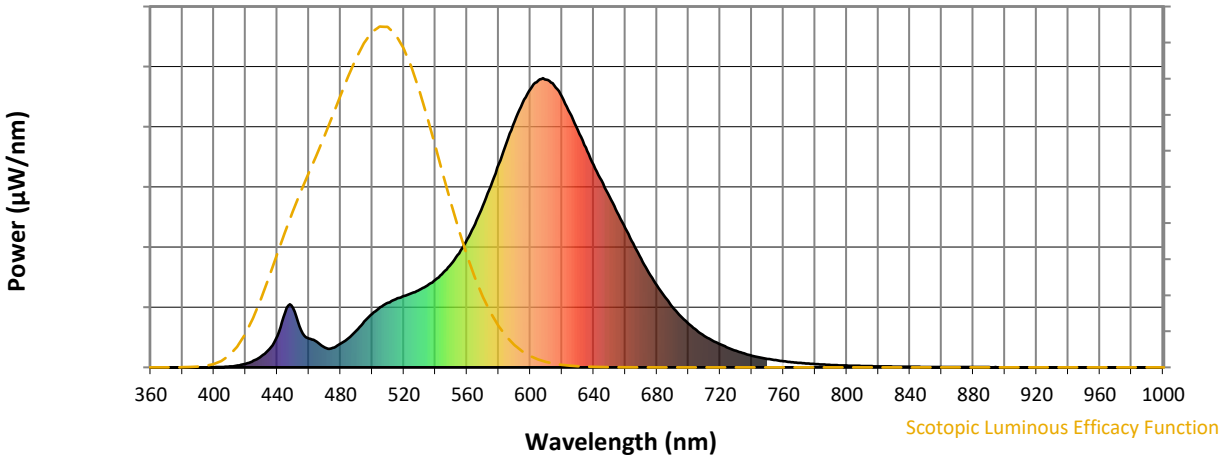


Photopic Lumens: NR

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

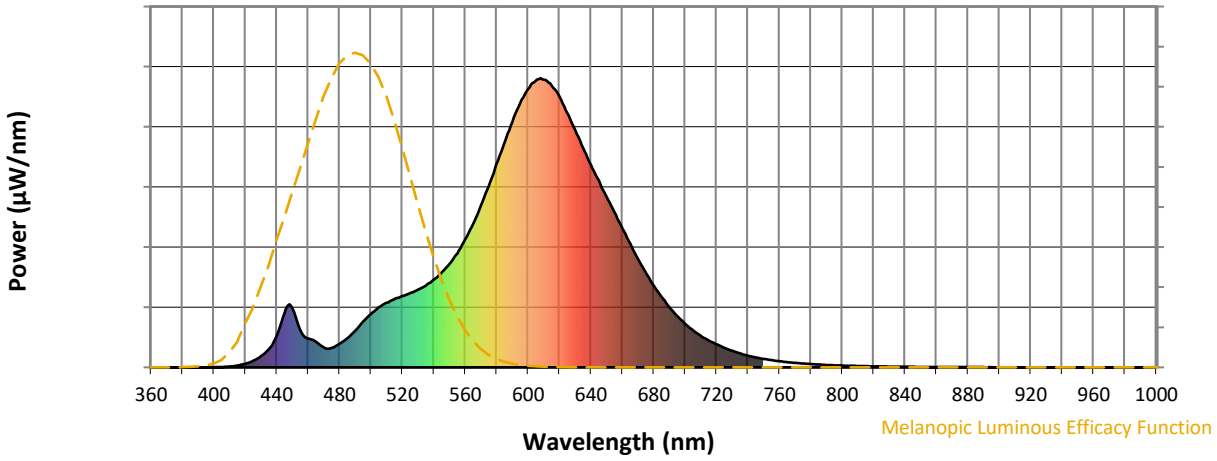


Scotopic Lumens: NR **S/P: 0.96**

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			

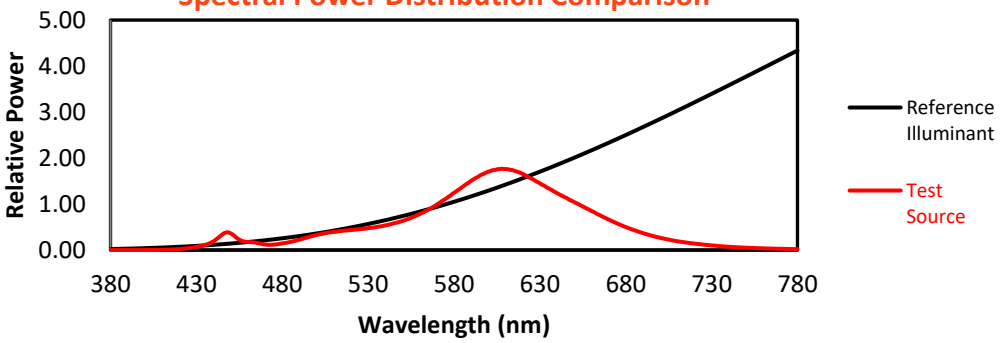
REPORT NUMBER: SP1-2501-332-7

TM-30-18

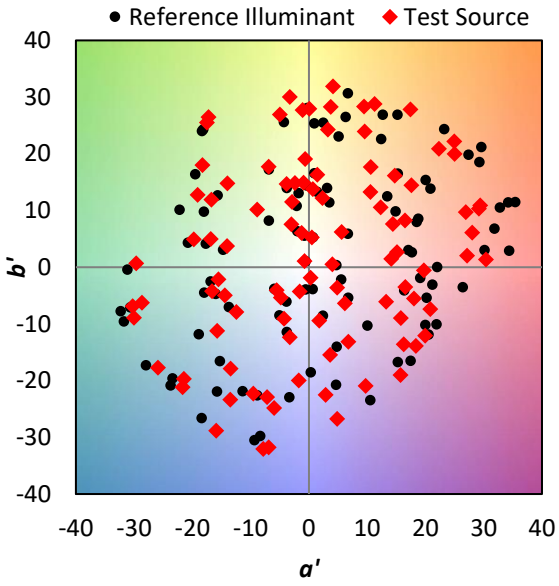
Summary

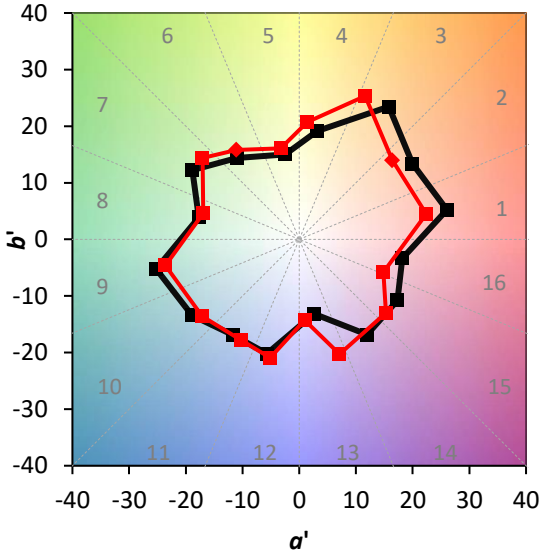
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

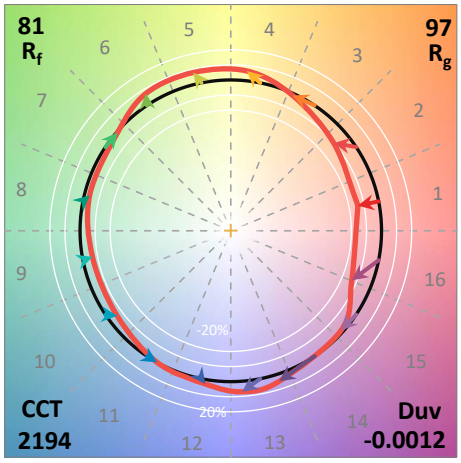
Spectral Power Distribution Comparison

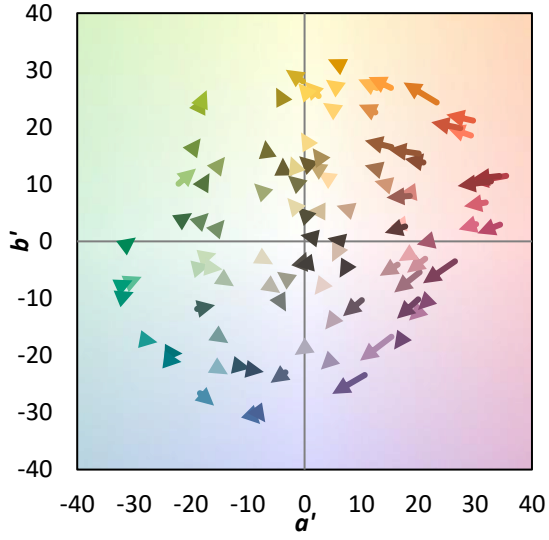


Color Vector Graphics







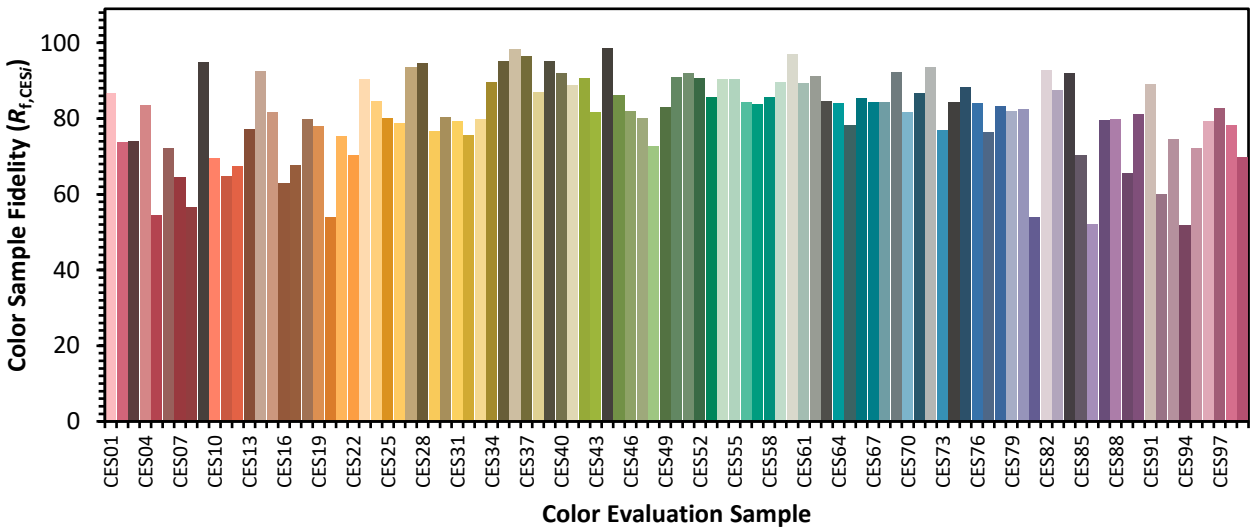


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

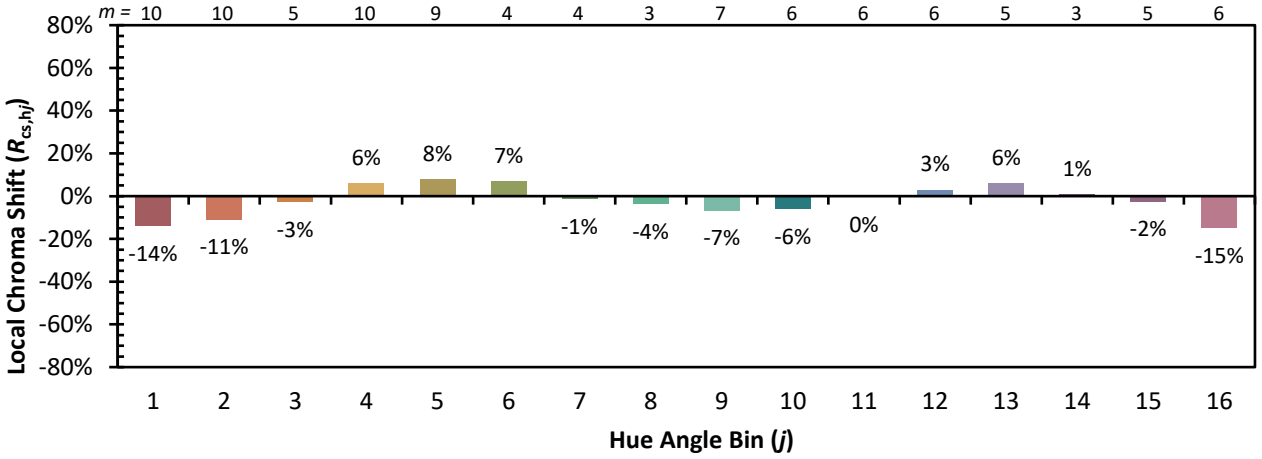
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57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

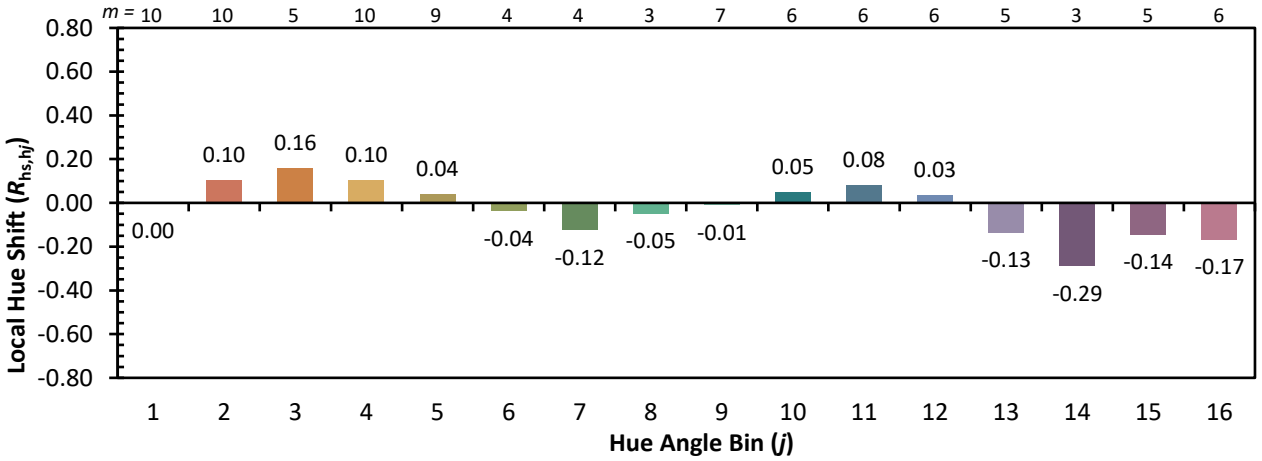


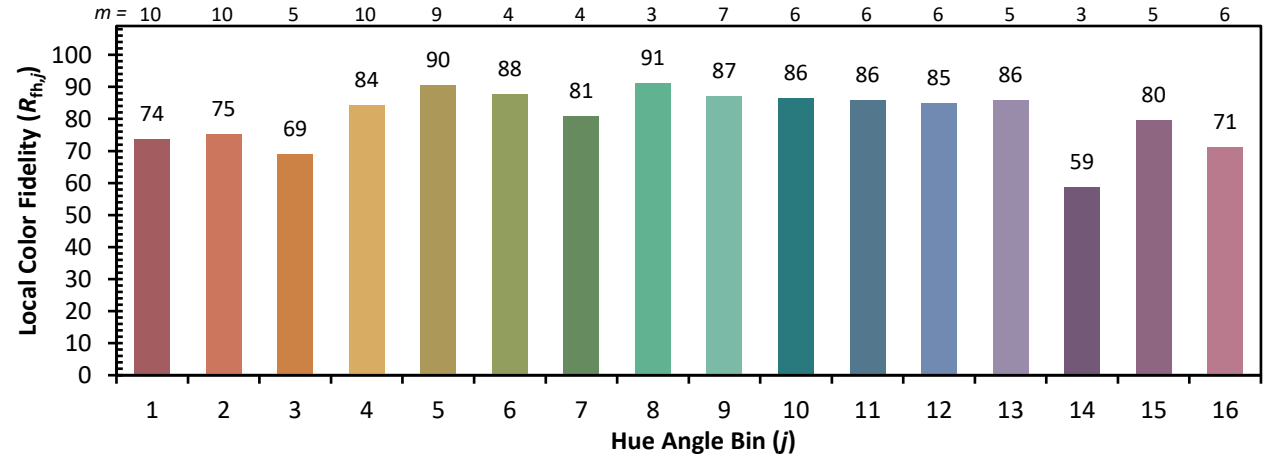
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Color Rendition by Hue-Angle Bin



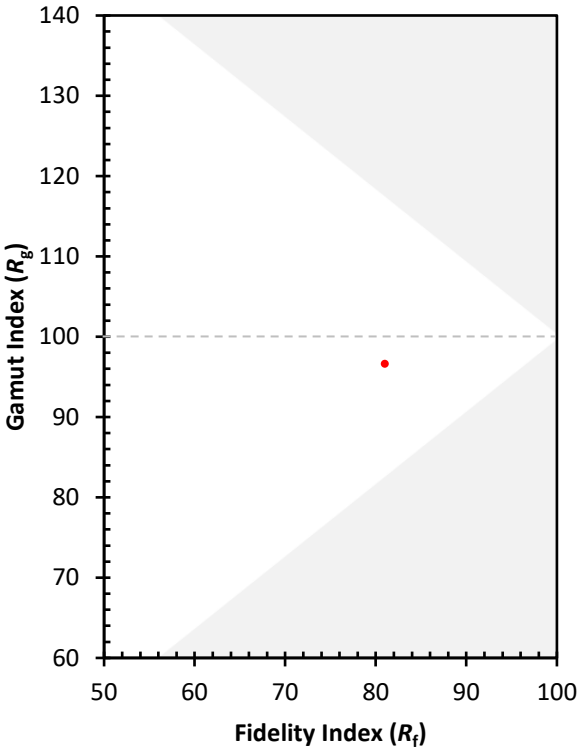


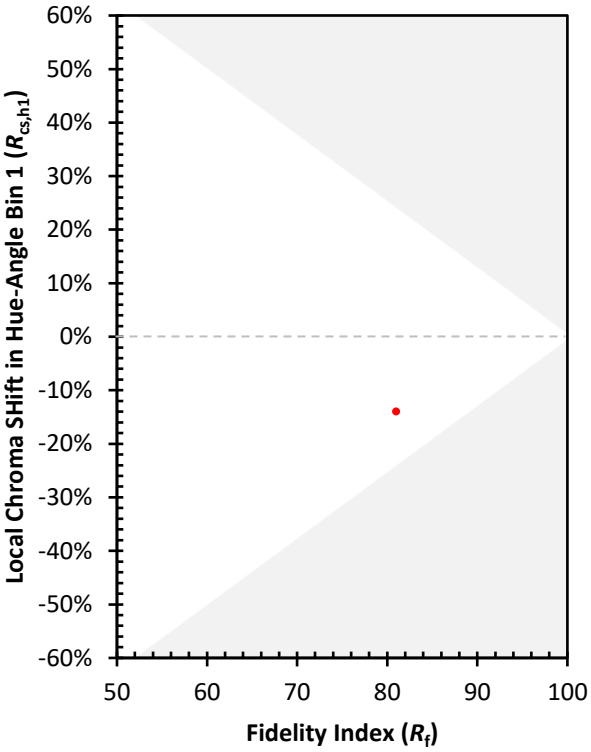


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Measure Comparisons





(END OF REPORT)