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: P1046610

Luminaire Tested: **FFX-CLB-50-730-U-FR-T3-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046610
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-730-U-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7060.6 lumens
Efficiency:	N/A
Efficacy:	139.5 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

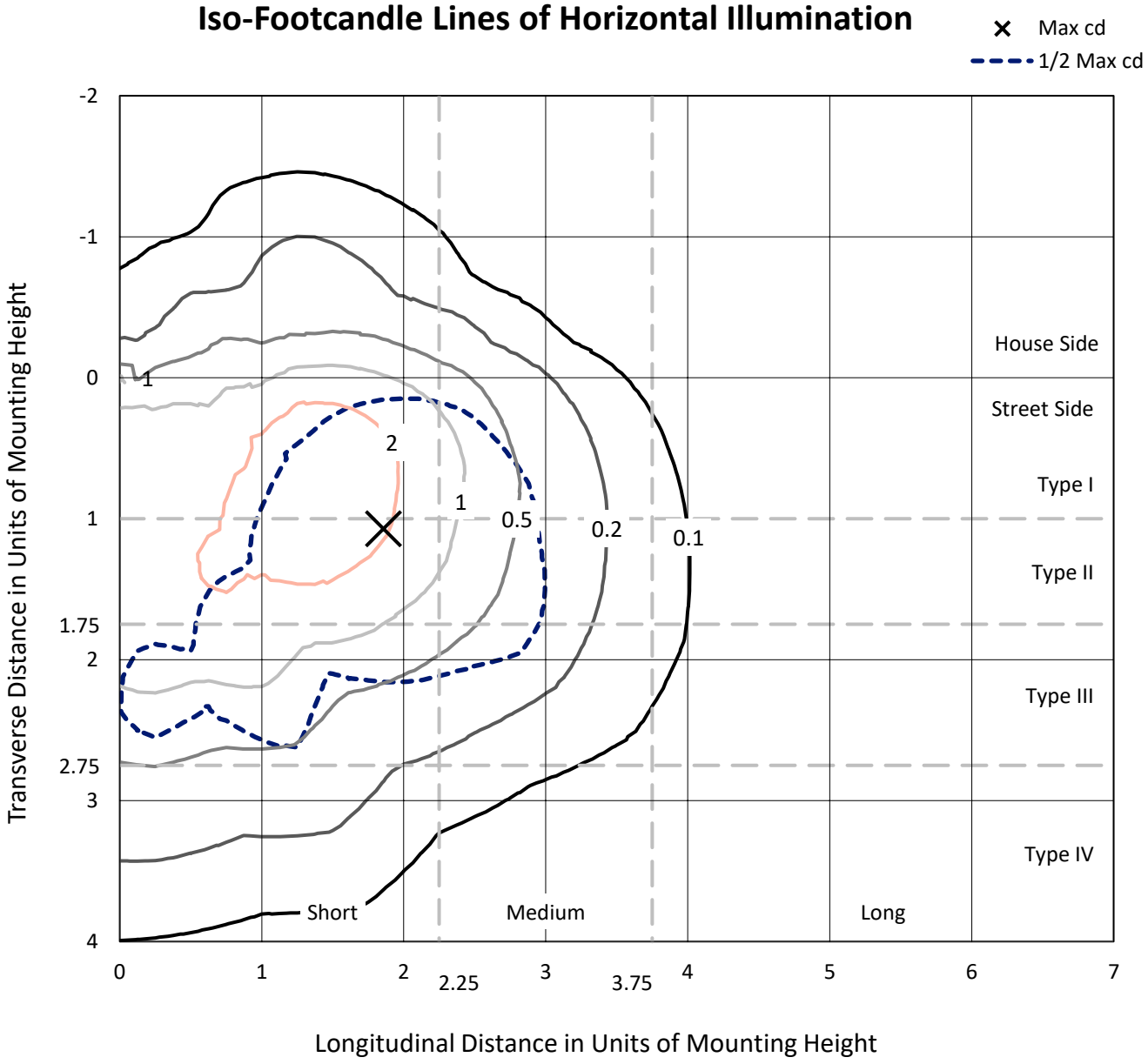


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Iso-Footcandle Lines of Horizontal Illumination



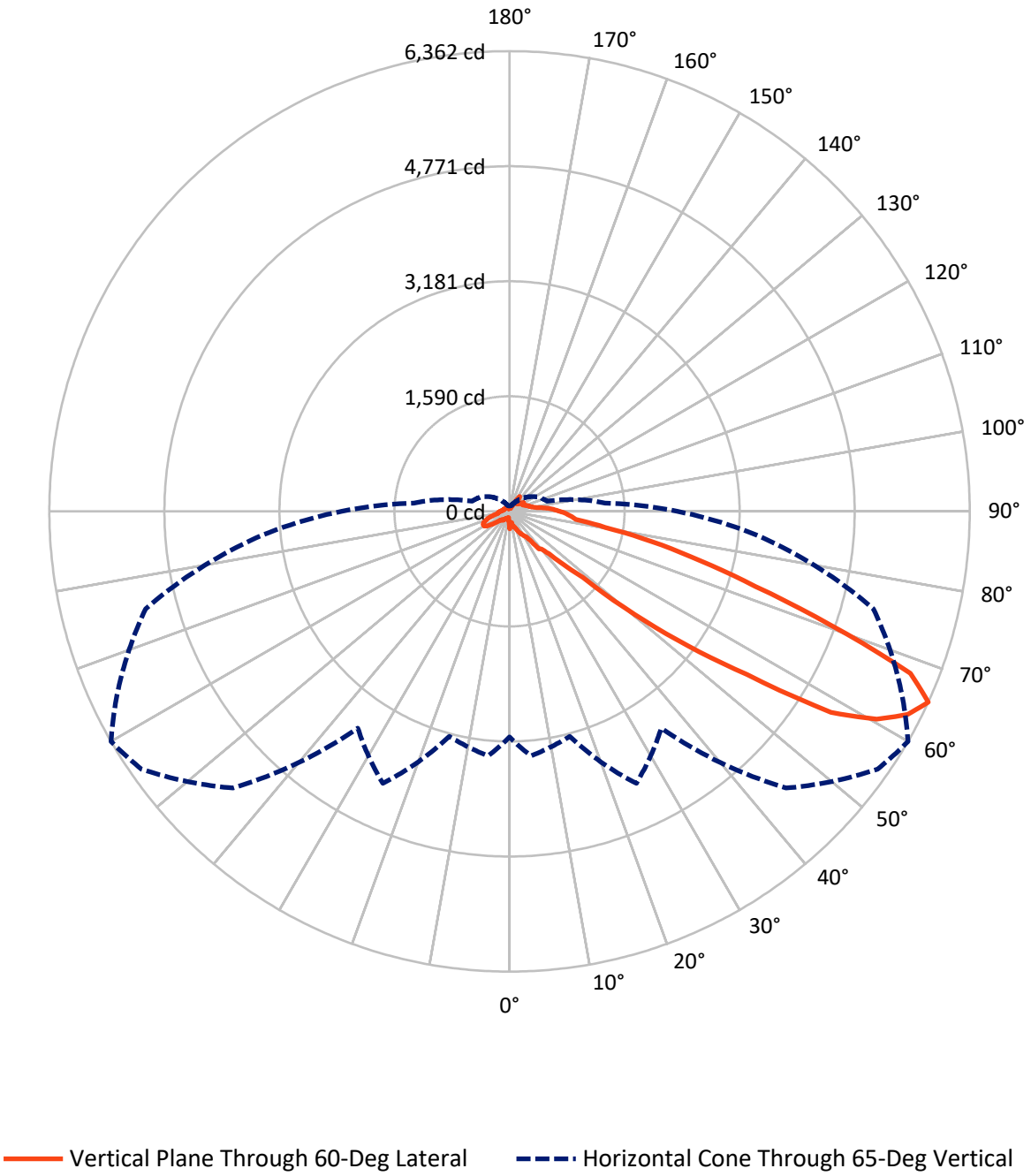
Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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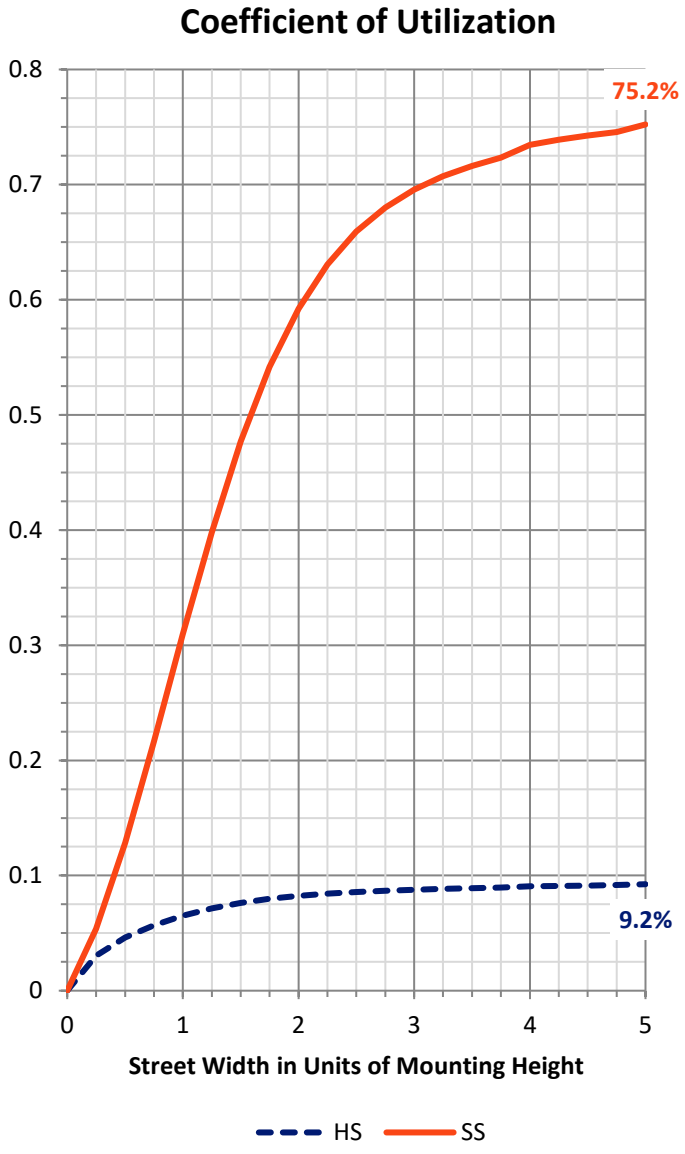
REPORT NUMBER: P1046610
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	684.6	221.0	905.6
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	5502.0	653.1	6155.1
	% Fixture	77.9	9.2	87.2
Total	Lumens	6186.6	874.0	7060.6
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	0.2
10°-20°	45.2	0.6
20°-30°	96.6	1.4
30°-40°	198.3	2.8
40°-50°	464.6	6.6
50°-60°	1453.4	20.6
60°-70°	2275.7	32.2
70°-80°	1203.9	17.1
80°-90°	435.9	6.2
90°-100°	262.9	3.7
100°-110°	164.7	2.3
110°-120°	133.1	1.9
120°-130°	111.0	1.6
130°-140°	80.9	1.1
140°-150°	74.3	1.1
150°-160°	30.9	0.4
160°-170°	12.3	0.2
170°-180°	4.0	0.1
0°-90°	6186.6	87.6
0°-180°	7060.6	100.0



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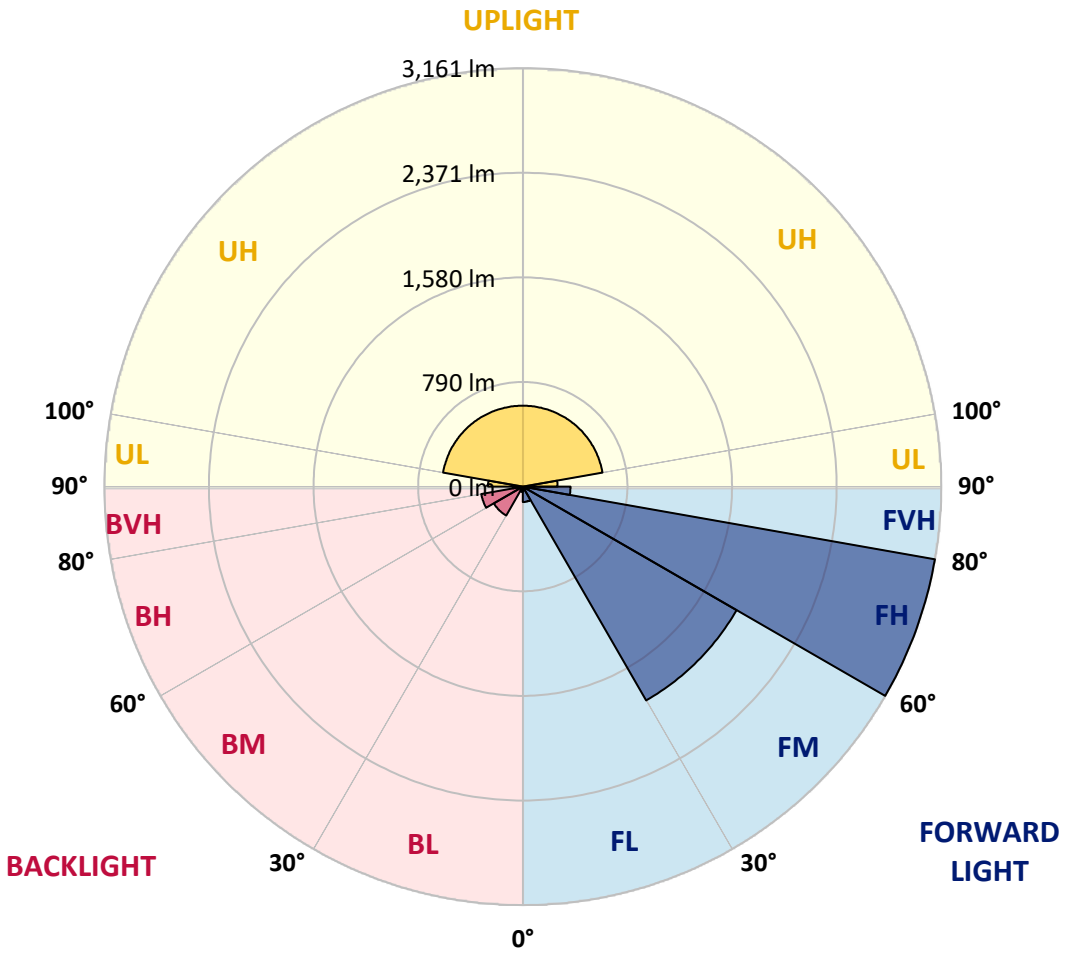
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	116.4	1.6			
FM	(30°-60°)	1864.5	26.4			
FH	(60°-80°)	3160.9	44.8			G2/5000
FVH	(80°-90°)	360.2	5.1			G3/500
BL	(0°-30°)	38.4	0.5	B0/110		
BM	(30°-60°)	251.8	3.6	B1/1000		
BH	(60°-80°)	318.7	4.5	B1/500		G1/500
BVH	(80°-90°)	75.7	1.1			G1/100
UL	(90°-100°)	262.9	3.7		U3/500	
UH	(100°-180°)	611.2	8.7		U4/1000	

BUG Rating: B1-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7
2.5°	132.2	137.4	167.3	198.3	207.1	188.0	162.7	165.8	179.7	246.3	275.8
5°	154.9	156.5	153.9	157.5	179.2	206.6	190.6	172.0	147.2	106.4	105.3
7.5°	178.2	178.2	177.1	164.2	149.2	144.6	158.5	161.1	158.5	132.2	114.1
10°	194.2	194.2	193.6	194.7	195.7	190.6	167.8	159.1	149.8	138.4	133.2
12.5°	235.5	236.5	243.2	239.6	226.2	212.2	214.8	212.2	198.3	174.0	153.9
15°	288.2	290.2	291.2	277.8	256.1	230.3	213.8	209.7	207.1	193.1	173.0
17.5°	315.5	314.5	302.1	288.2	274.2	255.6	240.1	233.9	224.6	207.1	185.4
20°	312.4	312.4	300.0	296.9	298.0	286.6	267.0	259.2	248.9	232.4	202.4
22.5°	321.2	321.7	314.0	316.6	327.9	316.6	297.4	292.3	282.5	258.7	228.2
25°	354.8	354.8	346.0	342.4	352.2	348.1	337.2	331.0	317.1	288.2	234.4
27.5°	385.2	383.2	374.9	375.9	366.6	364.6	362.0	359.4	347.0	301.1	237.5
30°	409.0	409.0	401.8	406.4	386.8	389.9	380.6	387.8	371.8	318.6	249.4
32.5°	430.7	433.8	431.2	437.4	414.2	427.6	411.6	419.3	409.5	350.1	283.0
35°	480.8	484.4	496.3	511.8	483.4	497.3	472.0	482.8	473.0	421.4	347.5
37.5°	679.6	673.9	648.1	622.8	595.4	652.7	646.5	656.9	641.4	558.2	438.9
40°	683.7	680.6	675.5	659.4	607.8	664.6	667.2	685.8	732.3	599.0	474.6
42.5°	701.3	704.9	766.3	774.1	735.4	823.7	799.4	800.4	959.5	709.5	612.4
45°	811.3	811.3	830.9	840.7	829.3	1082.9	1079.3	1048.3	1248.7	885.1	720.4
47.5°	930.0	933.7	969.8	1066.9	1130.4	1370.5	1441.8	1367.4	1630.3	1161.4	992.5
50°	1277.6	1284.8	1397.4	1482.6	1601.9	2006.2	2356.8	2243.8	2656.4	1771.8	1495.5
52.5°	1529.1	1618.9	1680.9	2001.6	2048.0	2669.3	3121.6	3082.9	3359.7	2452.4	1815.1
55°	1819.8	1959.7	2001.0	2498.3	2581.5	3444.4	3913.8	3982.5	3999.5	3170.2	2133.8
57.5°	2298.5	2515.4	2523.1	3048.8	3063.3	4341.9	5089.1	5240.4	5067.9	4005.7	2636.2
60°	2693.0	2947.1	2861.9	3577.6	3434.1	5067.9	5660.8	5832.2	5512.0	4719.9	2987.4
62.5°	2937.3	3182.6	3070.5	3949.4	3657.1	5379.3	6002.1	6178.2	5826.0	5099.4	3257.4
65°	3119.6	3391.7	3219.2	4147.7	3656.6	5407.2	6212.8	6361.5	5984.6	5208.4	3337.0
67.5°	3123.2	3367.4	3152.1	4077.0	3413.4	4965.7	5883.9	5977.8	5559.6	4821.6	3100.5
70°	2730.2	2905.8	2666.7	3440.8	2753.4	3768.7	4594.9	4706.5	4285.6	3706.7	2402.3
72.5°	2284.6	2353.2	2116.2	2751.9	2156.5	2852.1	3512.5	3554.4	3331.8	2776.7	1857.0
75°	1794.0	1767.6	1644.7	2051.7	1639.6	2020.7	2758.6	2718.3	2595.9	2043.4	1417.0
77.5°	1197.0	1148.0	1154.2	1407.7	1145.4	1337.0	2008.8	2010.3	1967.5	1515.1	1010.6
80°	730.2	731.7	711.6	892.9	756.0	888.7	1384.5	1339.0	1340.1	999.2	707.5
82.5°	571.1	580.4	555.1	643.4	595.4	707.0	904.7	930.0	902.7	733.8	521.0
85°	560.8	569.1	542.7	597.5	566.0	675.5	851.0	849.0	834.5	680.6	492.6
87.5°	513.8	523.6	504.0	542.2	517.9	625.4	783.4	773.1	759.1	640.3	469.9
90°	433.8	451.8	438.4	485.9	452.4	538.1	681.1	677.0	669.8	566.0	418.3
92.5°	394.5	398.1	388.3	431.2	394.0	471.5	604.7	591.8	575.8	491.1	356.3
95°	353.2	351.7	342.4	377.0	343.9	394.5	513.8	494.2	485.9	414.7	297.4
97.5°	283.0	283.5	278.9	302.6	278.9	315.0	385.8	378.5	362.0	309.8	227.7
100°	247.9	249.4	246.3	264.9	244.8	268.0	321.2	319.7	306.2	264.4	198.8
102.5°	234.4	235.0	239.1	250.5	231.3	248.4	292.8	293.3	284.5	246.3	186.9
105°	225.2	224.6	227.7	237.0	220.5	232.9	273.7	273.7	261.3	232.4	177.1
107.5°	217.9	216.9	222.1	229.8	218.4	222.1	253.6	255.6	243.7	216.4	168.3
110°	209.7	209.1	217.9	223.6	212.8	213.3	240.6	239.1	228.2	210.7	165.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	212.8	215.9	225.7	209.7	193.6	194.7	215.9	*218.4*	210.7	192.6	157.5
115°	210.2	213.3	226.2	203.5	179.7	185.9	203.5	*205.5*	194.2	179.2	148.2
117.5°	200.9	201.9	209.7	204.0	179.2	186.4	195.2	*198.8*	190.6	179.2	149.8
120°	237.5	229.8	229.8	221.0	193.1	206.0	222.6	*225.7*	217.9	196.7	149.2
122.5°	218.4	215.9	216.4	205.0	191.1	201.9	221.5	*226.7*	220.0	198.8	149.2
125°	172.0	172.5	169.9	173.5	167.8	171.4	181.8	*190.0*	183.8	172.5	142.0
127.5°	156.5	156.0	152.9	168.3	150.8	158.0	167.8	*172.5*	166.3	153.4	128.6
130°	152.3	152.3	161.1	177.1	166.8	163.7	160.1	*164.7*	163.7	155.4	128.6
132.5°	142.5	143.0	156.0	176.6	172.5	158.0	145.1	*147.7*	152.3	154.4	135.8
135°	142.5	141.0	136.8	141.5	138.9	142.5	138.9	*142.5*	143.6	142.5	118.8
137.5°	151.8	150.8	140.5	134.3	134.8	146.1	146.7	*148.2*	146.7	138.4	115.2
140°	148.7	145.1	137.9	135.3	135.8	147.7	152.3	*153.4*	151.8	135.8	108.4
142.5°	143.6	143.6	145.6	148.7	153.4	208.6	194.2	*207.6*	208.1	191.6	111.5
145°	206.0	208.1	201.9	195.2	211.7	251.0	236.0	*250.5*	260.3	242.2	153.9
147.5°	185.9	189.0	185.4	179.7	201.4	201.9	192.6	*194.2*	196.7	200.9	155.4
150°	131.7	128.1	133.7	129.6	151.3	150.3	137.4	*140.5*	146.1	146.7	123.9
152.5°	97.6	96.1	95.0	94.5	109.0	100.2	95.5	*94.0*	95.0	94.5	88.8
155°	86.2	86.2	85.7	88.3	96.1	89.9	85.2	*85.7*	83.1	81.6	78.5
157.5°	67.1	65.6	67.1	71.8	74.9	69.2	67.6	*66.6*	66.1	63.5	64.5
160°	55.3	55.3	56.3	59.9	62.0	57.8	54.7	*53.7*	53.7	52.7	56.3
162.5°	47.0	47.0	48.0	49.1	50.1	48.0	47.0	*47.0*	46.5	46.5	50.1
165°	39.2	39.2	39.8	41.8	42.3	41.3	40.8	*41.3*	41.3	43.4	46.5
167.5°	36.1	36.1	36.7	37.7	38.2	37.7	39.2	*40.8*	42.3	44.4	45.4
170°	34.6	34.6	35.1	35.6	36.7	37.7	40.8	*41.8*	42.3	41.8	41.8
172.5°	35.6	35.6	35.6	36.7	37.7	40.3	42.9	*42.9*	41.8	40.8	40.8
175°	36.1	35.6	36.1	37.2	38.7	40.3	41.3	*42.3*	42.3	41.8	41.8
177.5°	35.6	35.6	36.1	36.7	36.7	36.7	37.2	*37.7*	37.7	38.2	38.7
180°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	*35.1*	35.1	35.1	35.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7
2.5°	270.1	255.1	189.0	125.5	153.9	224.6	261.8	245.3	182.8	105.3	89.3
5°	110.5	123.9	144.6	138.4	124.5	102.2	76.9	76.4	105.9	128.6	130.6
7.5°	106.4	97.6	92.4	102.2	95.5	66.1	55.8	46.5	49.6	72.8	69.7
10°	131.2	128.1	119.3	97.6	71.8	59.4	55.8	56.8	60.9	54.7	54.2
12.5°	146.1	138.4	119.3	113.1	96.1	68.2	56.3	52.2	55.8	69.7	75.4
15°	160.1	148.7	125.0	104.8	86.2	70.7	60.4	52.7	47.0	40.8	40.3
17.5°	172.5	158.0	131.7	109.0	85.7	70.7	58.4	46.0	39.8	37.7	37.7
20°	187.5	174.0	140.5	113.6	86.2	69.2	56.3	45.4	39.8	37.7	37.7
22.5°	207.6	185.4	149.8	115.7	87.3	68.7	55.3	46.5	41.3	38.2	38.2
25°	213.3	196.2	156.0	122.4	91.4	71.3	57.8	48.0	42.3	39.8	39.2
27.5°	217.4	204.5	167.8	128.1	96.1	76.4	62.0	50.1	43.4	40.8	40.3
30°	233.4	222.1	180.7	136.3	102.2	81.6	65.6	53.2	45.4	41.3	40.3
32.5°	267.5	251.5	199.8	144.6	110.0	87.3	70.2	56.3	47.5	42.3	41.3
35°	332.6	319.7	250.5	161.6	118.3	94.5	75.9	60.4	50.1	43.9	43.4
37.5°	408.0	387.8	304.2	188.0	123.9	100.7	81.6	64.5	52.7	46.5	45.4
40°	420.9	363.5	269.6	171.4	125.0	103.8	86.8	69.2	55.8	48.5	47.0
42.5°	527.8	446.2	312.4	177.1	127.6	103.8	87.8	72.3	58.9	50.1	49.1
45°	558.2	444.6	310.9	197.8	139.9	106.9	88.3	73.8	61.5	52.7	51.1
47.5°	711.6	545.3	315.5	210.2	152.9	117.7	91.9	74.9	62.0	54.2	53.7
50°	1017.3	729.2	379.6	253.6	183.3	137.4	103.3	78.5	63.0	55.8	55.3
52.5°	1256.4	866.0	407.4	303.6	233.4	174.5	123.4	87.8	65.1	56.3	55.3
55°	1493.4	1032.8	459.1	358.4	277.8	210.2	153.4	102.8	70.2	57.3	56.3
57.5°	1854.9	1239.9	523.1	412.1	329.5	243.7	171.4	116.2	76.4	58.4	56.8
60°	2074.4	1313.2	529.8	439.5	358.9	267.5	177.6	121.4	84.2	62.5	59.9
62.5°	2271.6	1379.3	534.5	451.8	364.1	270.1	178.2	117.2	85.7	68.7	65.6
65°	*2322.8*	*1325.6*	*539.1*	*456.0*	*354.8*	*255.1*	*171.4*	*113.1*	*81.6*	*74.4*	*73.8*
67.5°	2207.1	1188.8	507.1	440.5	330.0	229.3	154.4	107.4	79.5	72.3	73.8
70°	1719.6	944.0	464.8	405.9	285.1	193.6	137.4	100.2	78.5	68.7	67.1
72.5°	1355.0	803.0	469.4	386.8	240.6	171.4	121.4	91.4	74.4	67.1	66.1
75°	1055.5	672.9	451.8	333.1	195.2	146.1	106.4	81.6	69.2	64.5	64.0
77.5°	774.1	534.0	372.8	256.7	161.1	121.9	93.0	74.9	65.6	61.5	60.9
80°	507.6	377.5	259.7	205.0	138.9	110.0	84.7	70.2	63.0	59.4	58.9
82.5°	431.7	335.1	230.8	188.5	128.6	105.9	83.1	68.7	62.5	58.4	57.8
85°	416.2	343.4	236.0	195.2	122.4	101.2	80.6	67.6	60.9	57.3	56.8
87.5°	390.9	310.9	228.2	175.1	113.1	92.4	75.4	65.1	58.4	55.3	54.2
90°	348.1	265.9	196.2	150.3	107.4	86.8	71.3	62.0	56.8	53.7	52.7
92.5°	280.9	201.9	154.4	132.7	104.8	86.2	70.7	62.0	56.8	53.7	52.7
95°	236.0	173.0	138.4	121.4	97.6	81.6	67.6	59.9	55.3	52.2	52.2
97.5°	186.9	144.6	123.4	109.0	87.8	74.4	64.0	57.3	53.2	50.1	50.1
100°	165.8	134.3	117.2	102.2	83.1	70.2	62.5	55.8	52.2	48.5	48.5
102.5°	157.5	130.1	115.7	97.1	79.5	67.6	59.9	53.7	50.6	47.0	47.0
105°	152.3	128.6	114.6	94.5	75.9	64.5	57.3	51.1	48.5	46.0	45.4
107.5°	147.2	126.5	116.2	93.0	72.8	62.5	57.3	50.6	47.5	45.4	45.4
110°	144.6	127.6	115.7	91.4	71.8	62.0	56.8	51.1	48.5	46.5	46.0

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

Scaled Data Report

REPORT NUMBER: P1046610
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	137.9	121.9	110.5	86.8	70.2	60.4	54.7	50.6	47.0	44.9	44.4
115°	131.2	112.1	101.2	82.6	66.6	58.4	53.2	49.1	45.4	43.9	43.9
117.5°	133.7	109.5	93.0	81.1	65.6	56.8	52.2	48.0	44.9	43.9	43.4
120°	132.2	115.2	104.3	86.8	65.1	55.3	51.1	47.0	44.4	43.9	43.9
122.5°	126.5	124.5	114.6	88.3	63.0	55.8	52.2	48.5	46.0	44.4	44.4
125°	121.9	120.8	106.9	79.5	64.5	57.8	54.7	51.1	49.6	48.0	47.5
127.5°	112.6	101.2	88.8	76.4	65.6	58.9	55.8	53.7	52.2	49.6	49.1
130°	113.1	103.8	91.4	76.9	63.0	57.8	56.3	54.2	51.6	47.5	47.0
132.5°	122.9	113.1	90.9	71.3	60.4	57.8	56.8	54.2	48.5	43.9	43.4
135°	102.2	95.5	80.6	68.2	61.5	59.9	59.4	53.7	45.4	42.3	41.8
137.5°	99.7	89.9	77.5	68.7	64.0	60.9	58.9	51.6	42.3	39.2	38.2
140°	94.0	84.7	75.9	69.7	62.0	51.6	47.0	43.4	39.2	36.7	36.1
142.5°	94.0	85.2	71.8	61.5	53.7	48.0	45.4	42.3	37.7	34.1	33.0
145°	111.0	100.7	86.8	78.0	69.7	60.9	52.2	42.9	35.1	30.5	30.0
147.5°	126.0	113.6	102.8	88.3	74.9	60.4	48.0	37.7	32.0	30.0	30.0
150°	103.3	91.9	86.2	73.8	62.0	49.6	40.8	35.1	32.0	31.0	31.0
152.5°	77.5	65.1	60.9	54.2	47.0	40.8	36.7	33.6	32.5	32.0	32.0
155°	72.3	62.0	56.8	50.6	43.4	38.2	35.6	34.1	33.0	32.5	32.5
157.5°	63.0	57.3	50.6	46.0	40.8	37.2	35.6	34.6	33.6	33.0	33.0
160°	56.3	52.2	46.0	42.3	38.7	37.2	37.2	36.7	35.1	34.6	34.6
162.5°	50.6	49.1	43.4	40.3	38.7	39.2	41.8	41.3	38.7	36.7	36.1
165°	47.0	45.4	41.3	39.8	38.7	40.8	46.0	44.9	40.8	38.2	38.2
167.5°	44.9	43.9	40.8	39.2	39.8	43.9	48.5	49.1	45.4	41.8	41.3
170°	41.3	41.3	40.8	41.3	41.3	43.4	46.0	47.5	47.5	48.5	48.0
172.5°	40.8	41.3	42.9	42.9	42.3	42.9	44.9	47.5	49.1	50.6	51.1
175°	41.8	42.3	43.4	43.9	43.9	44.9	48.0	50.1	51.1	50.6	50.6
177.5°	38.7	39.2	39.8	41.8	42.9	43.9	47.0	48.0	49.1	50.1	50.1
180°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

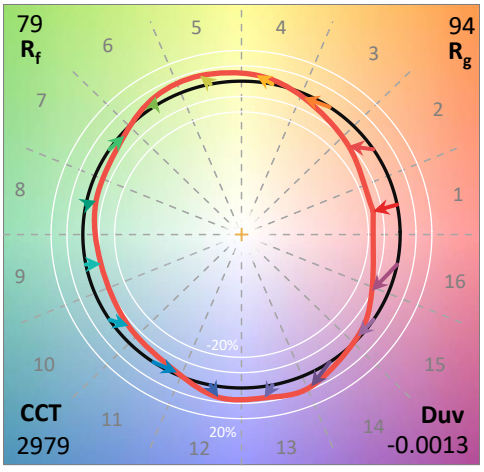
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-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):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

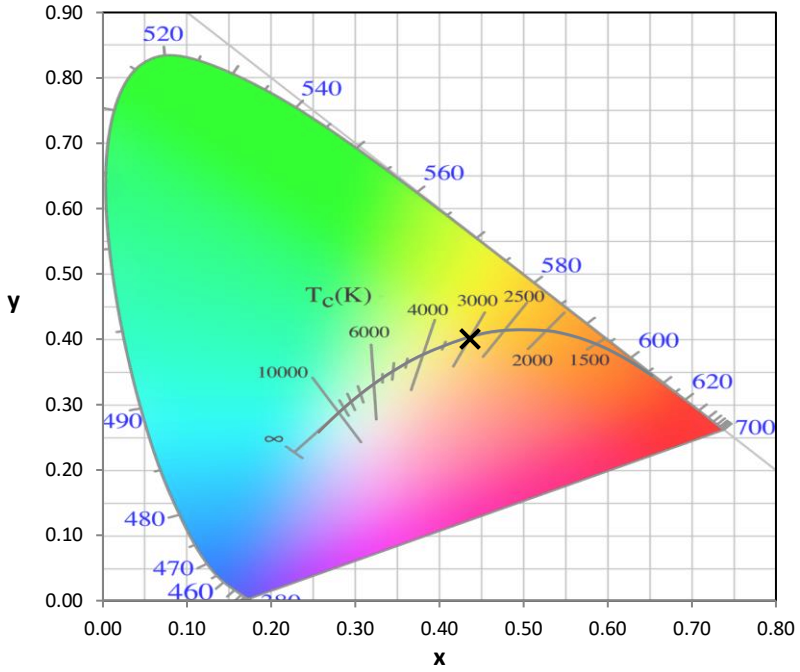
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

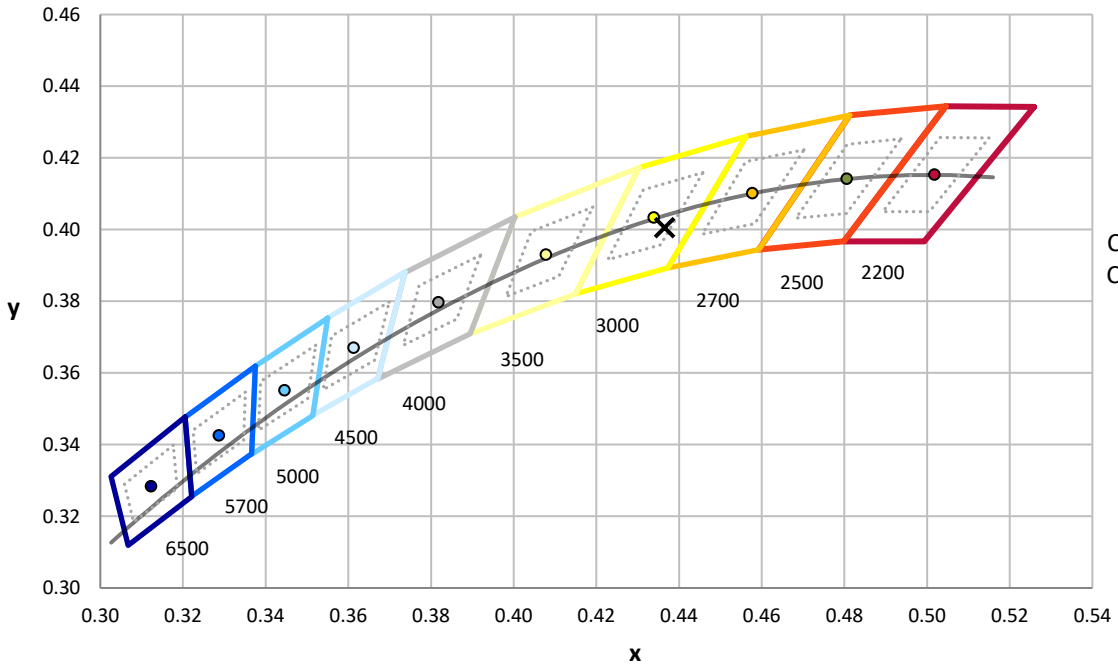
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

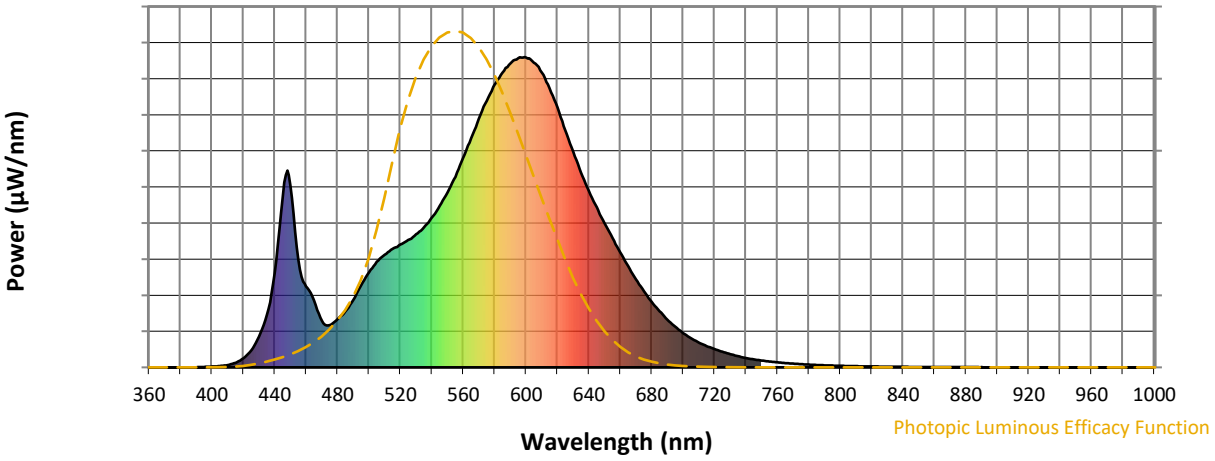


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

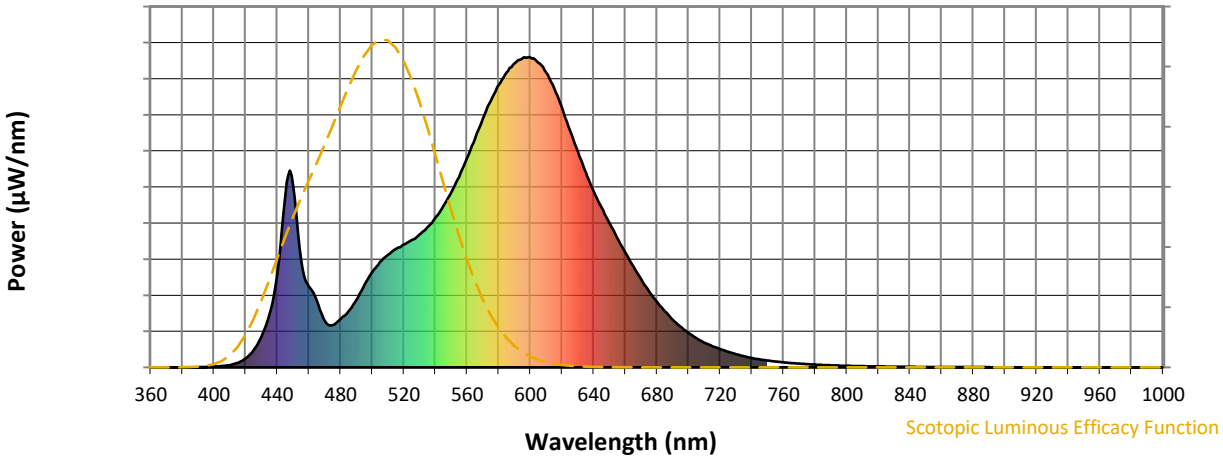


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

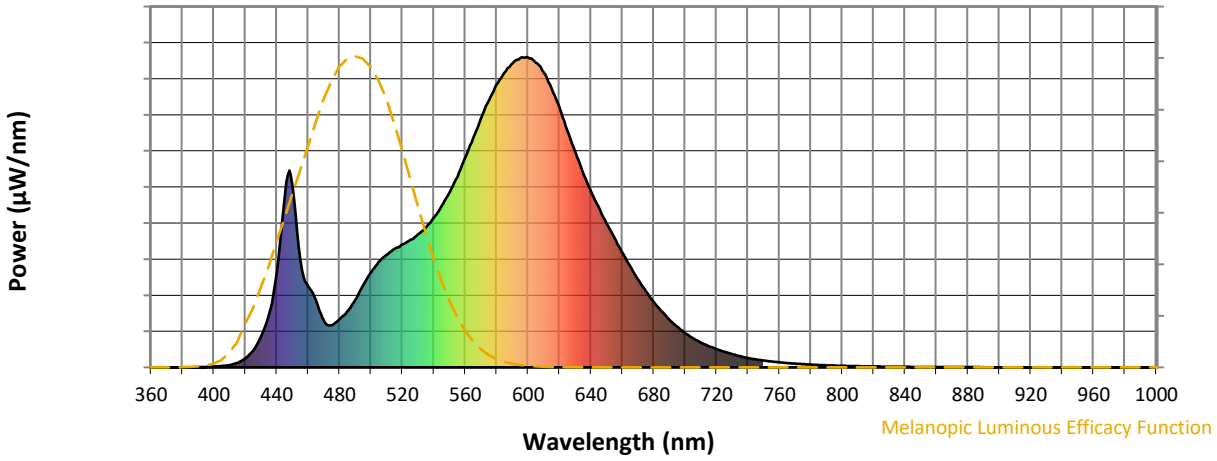


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

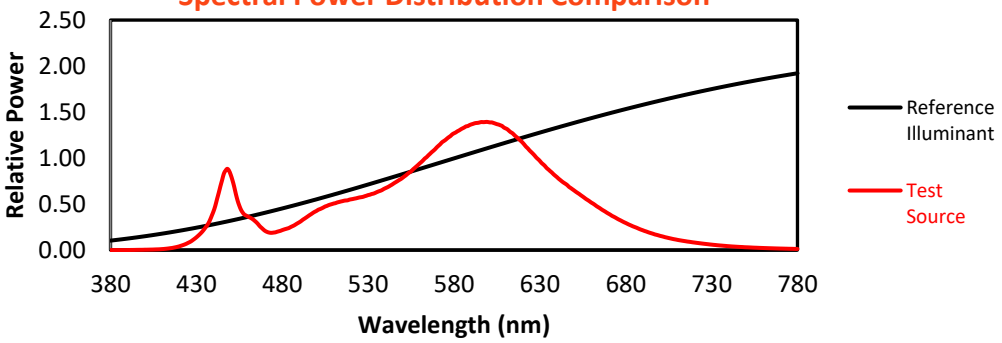
REPORT NUMBER: SP1-2501-332-9

TM-30-18

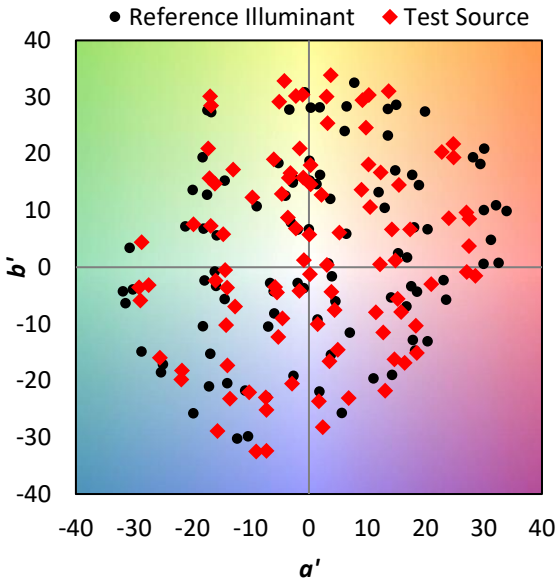
Summary

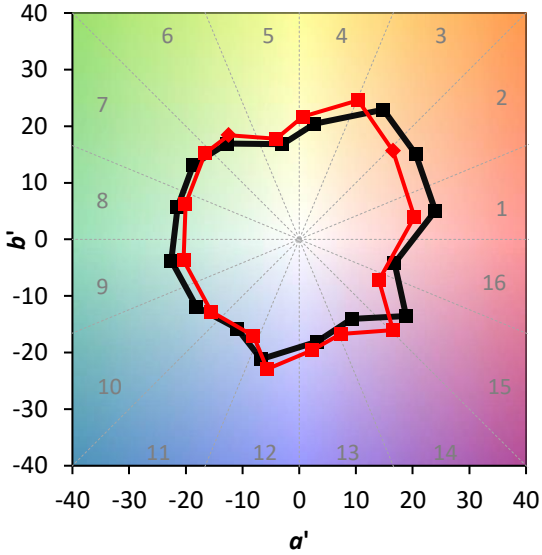
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

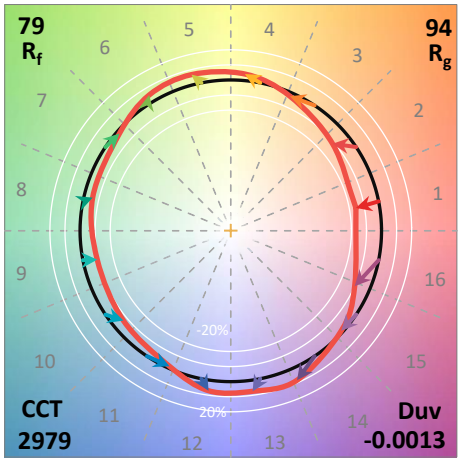
Spectral Power Distribution Comparison

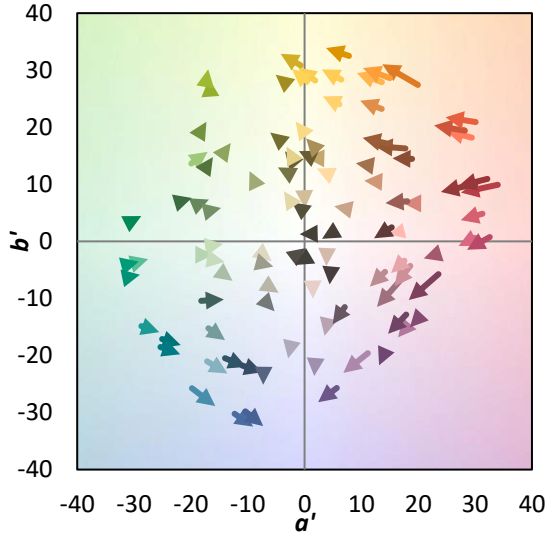


Color Vector Graphics







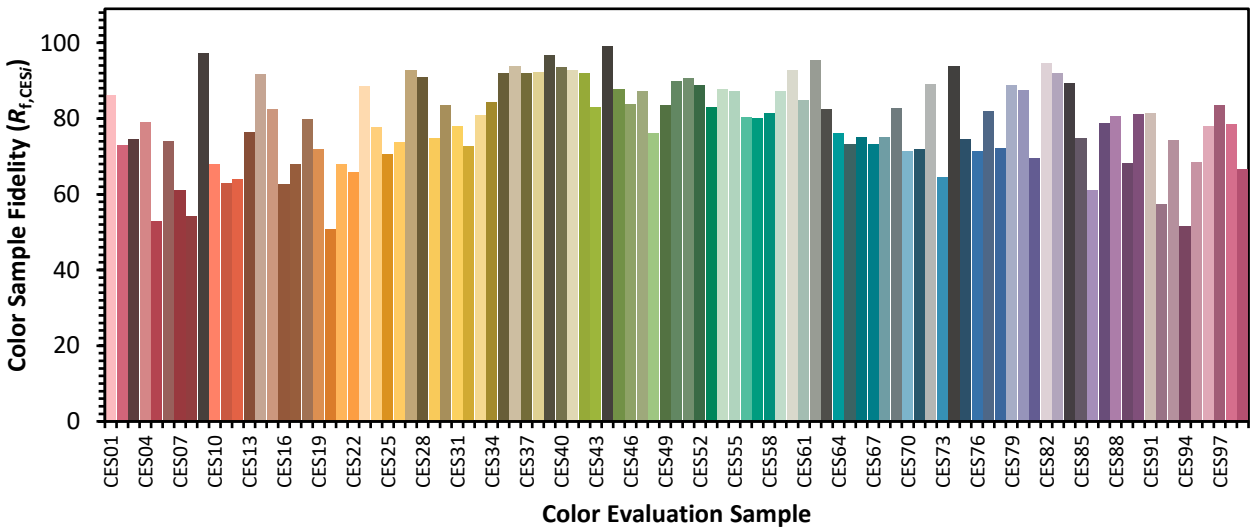


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

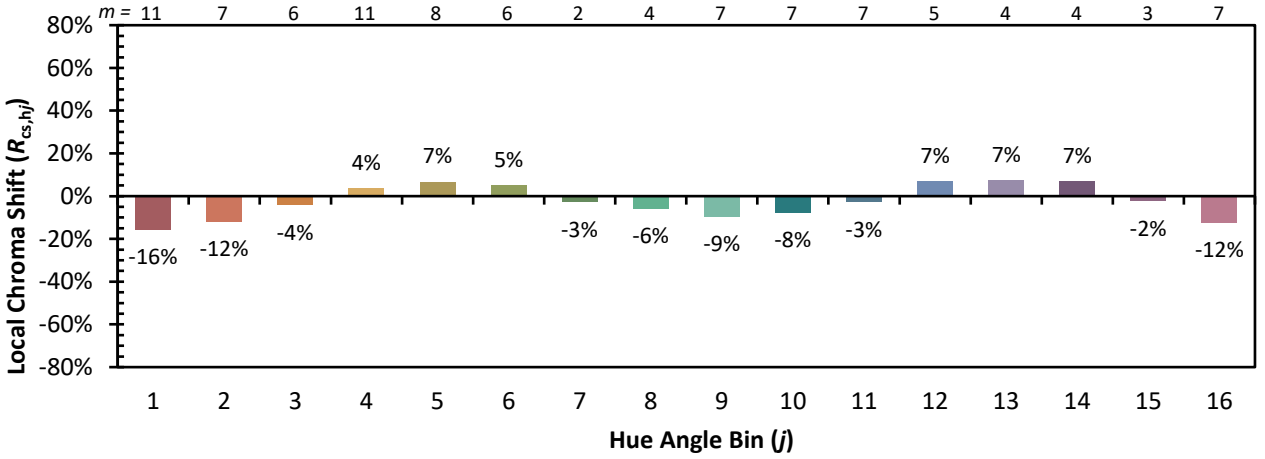
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
CES25 = 72	CES50 = 90	CES75 = 75	

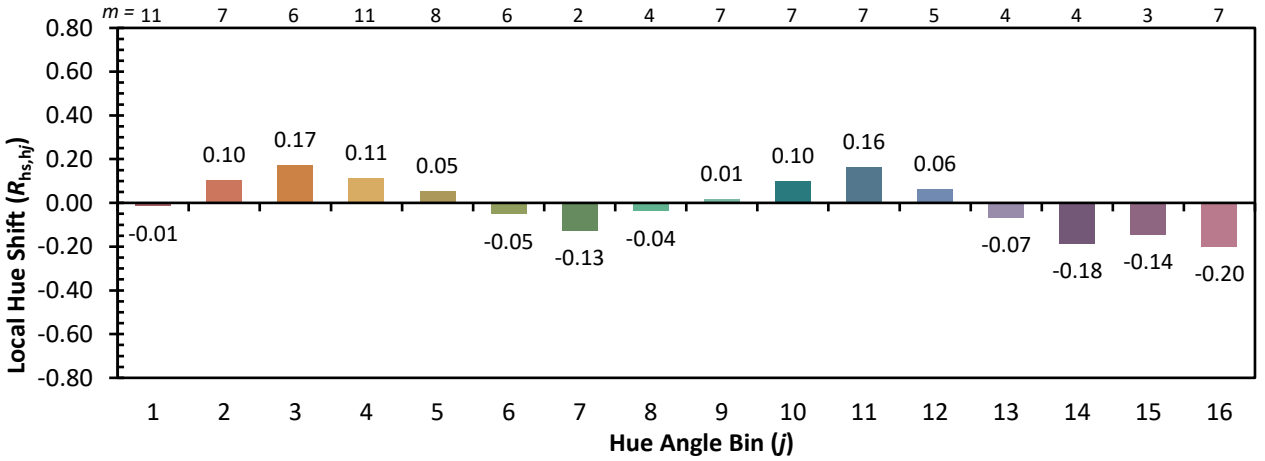


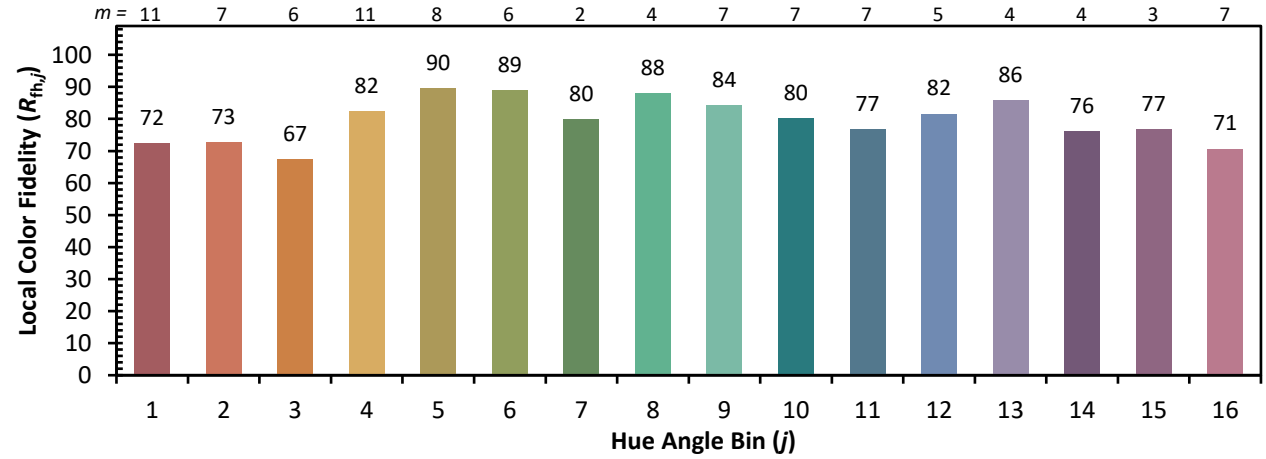
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Color Rendition by Hue-Angle Bin



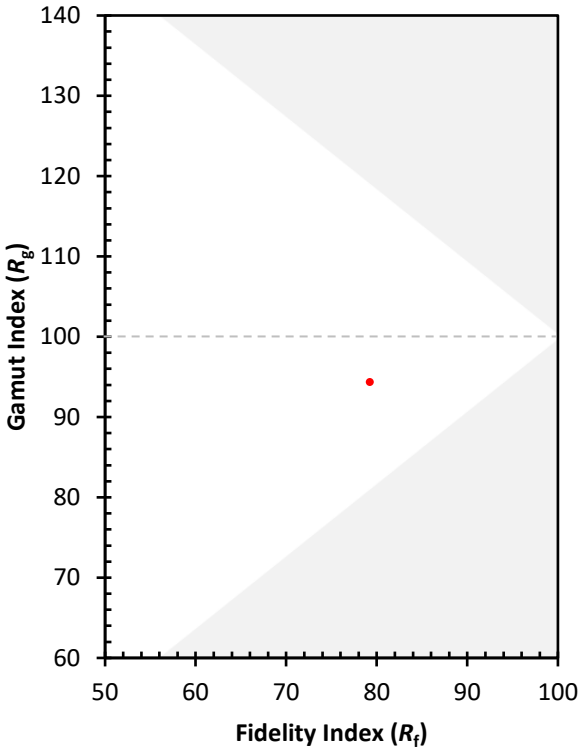


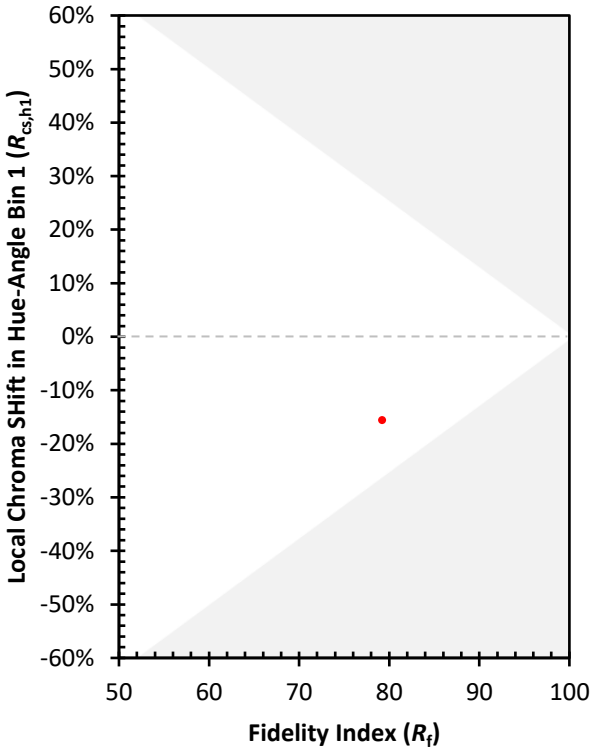


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Measure Comparisons





(END OF REPORT)