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: P1046568

Luminaire Tested: **FFX-CLB-20-730-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:	P1046568
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-730-U-FR-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2866.8 lumens
Efficiency:	N/A
Efficacy:	144.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U3 - G2

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

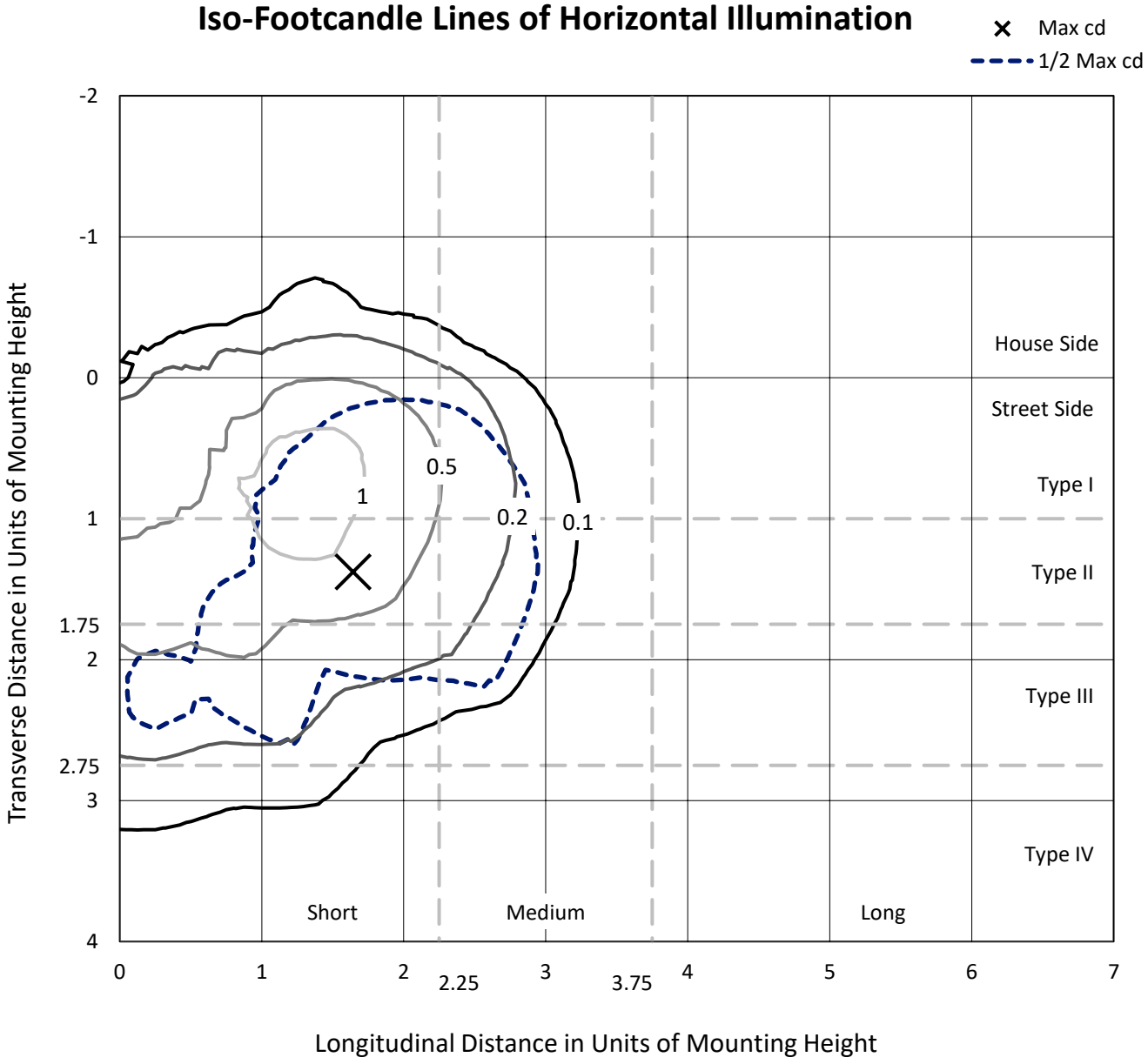


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Iso-Footcandle Lines of Horizontal Illumination



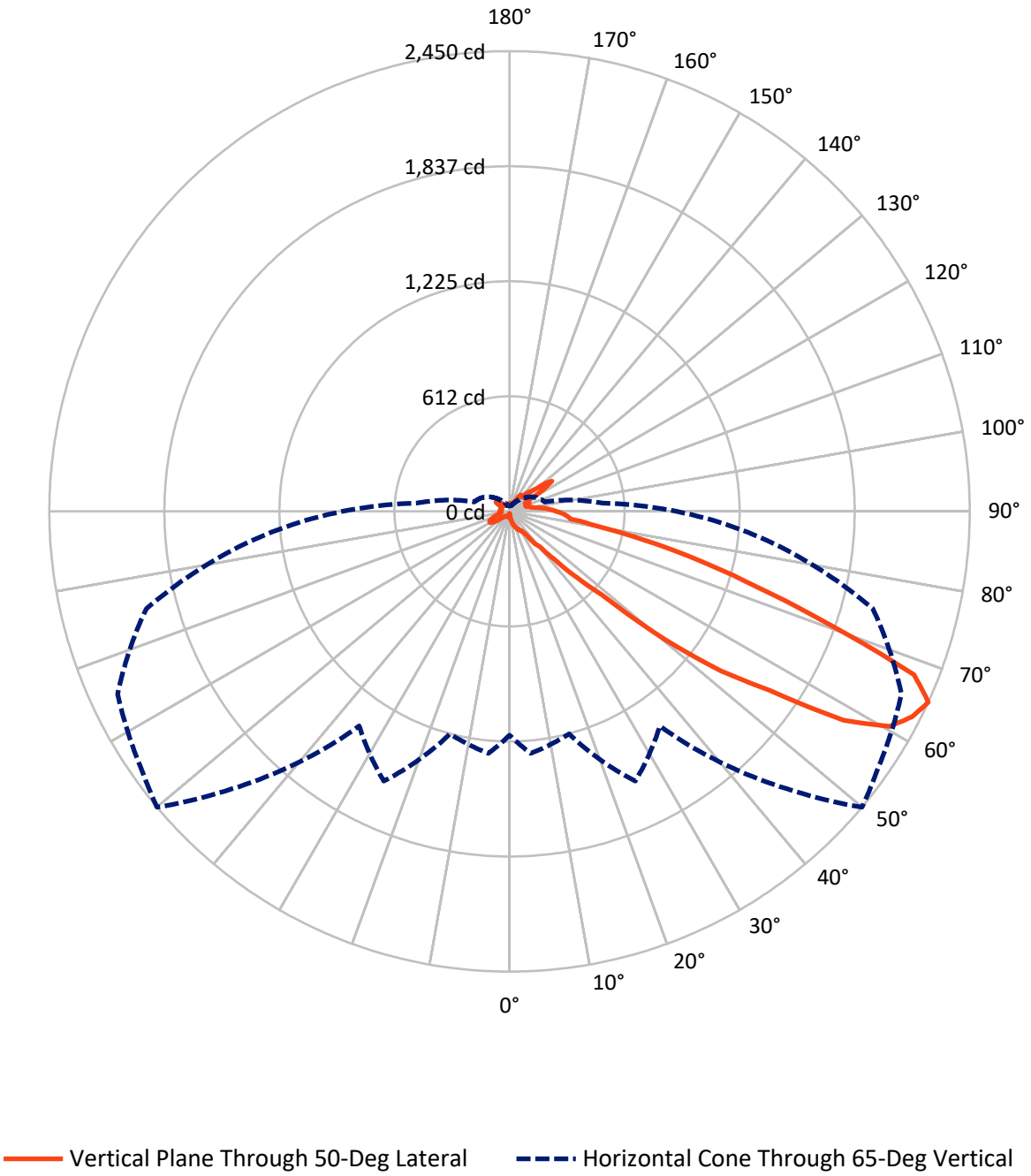
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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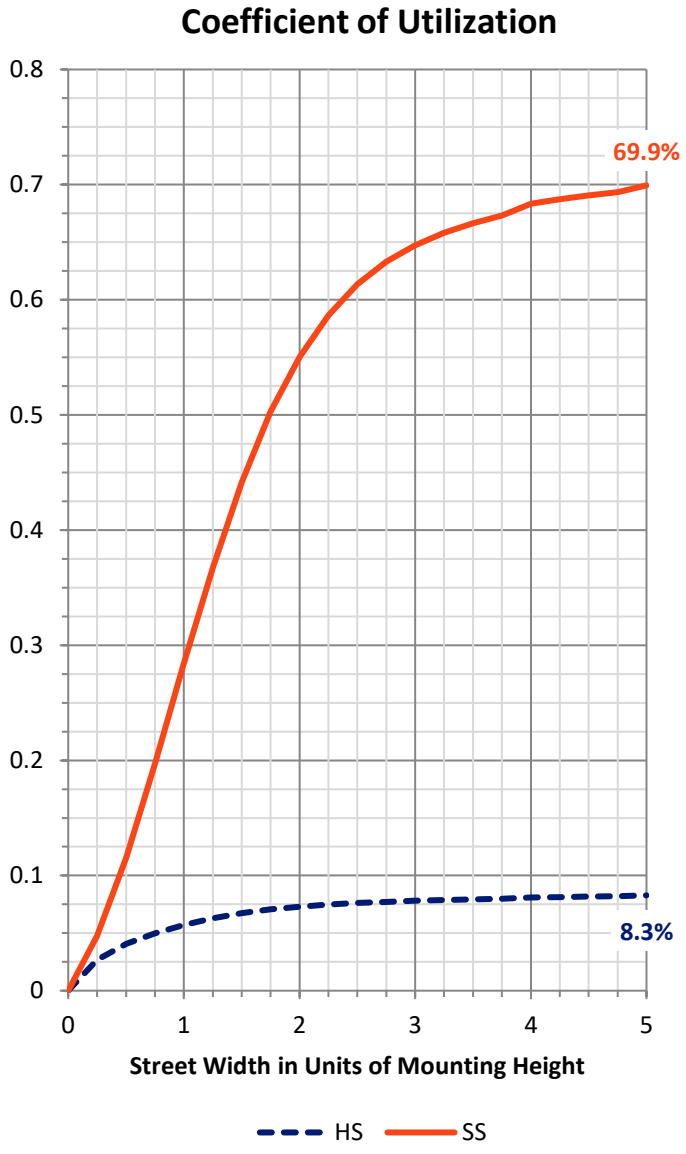
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	251.5	165.5	417.0
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	2073.7	376.0	2449.7
	% Fixture	72.3	13.1	85.5
Total	Lumens	2325.2	541.6	2866.8
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.1
10°-20°	15.0	0.5
20°-30°	31.9	1.1
30°-40°	63.8	2.2
40°-50°	167.1	5.8
50°-60°	553.7	19.3
60°-70°	873.2	30.5
70°-80°	455.9	15.9
80°-90°	161.9	5.6
90°-100°	104.5	3.6
100°-110°	70.5	2.5
110°-120°	80.4	2.8
120°-130°	133.3	4.6
130°-140°	76.1	2.7
140°-150°	41.7	1.5
150°-160°	20.4	0.7
160°-170°	10.8	0.4
170°-180°	3.9	0.1
0°-90°	2325.2	81.1
0°-180°	2866.8	100.0



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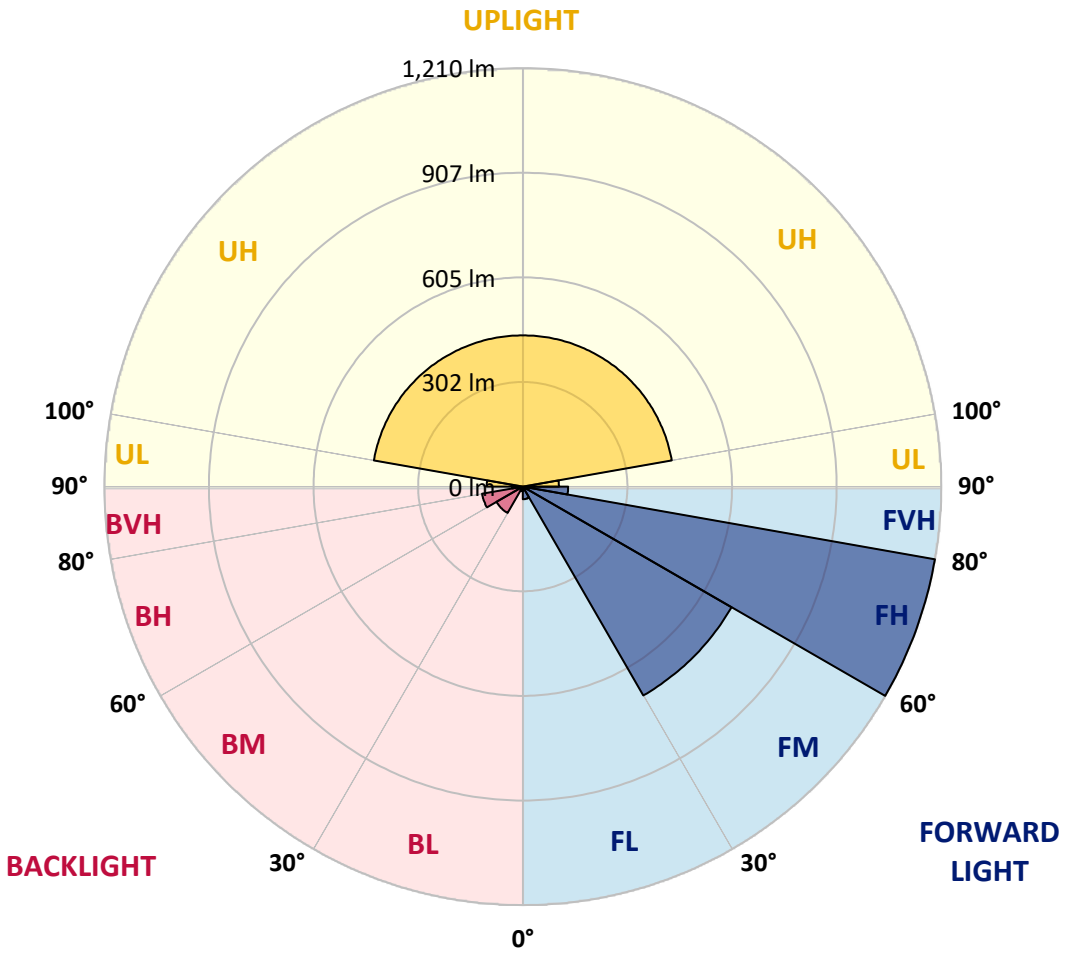
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	36.5	1.3			
FM	(30°-60°)	696.7	24.3			
FH	(60°-80°)	1209.5	42.2			G1/1800
FVH	(80°-90°)	131.1	4.6			G2/225
BL	(0°-30°)	13.2	0.5	B0/110		
BM	(30°-60°)	87.9	3.1	B0/220		
BH	(60°-80°)	119.6	4.2	B1/500		G1/500
BVH	(80°-90°)	30.8	1.1			G1/100
UL	(90°-100°)	104.5	3.6		U3/500	
UH	(100°-180°)	437.1	15.2		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	19.4	19.2	19.7	20.3	20.1	19.4	19.0	18.8	18.2	18.0	17.4
5°	28.8	28.6	28.2	28.6	28.8	28.0	27.6	26.5	25.5	23.7	22.7
7.5°	40.3	40.5	40.9	39.9	39.5	37.7	37.3	36.3	34.6	32.4	31.8
10°	54.7	54.9	55.9	54.3	51.7	49.4	49.0	49.4	51.3	45.6	42.1
12.5°	68.9	68.3	71.3	70.5	67.1	63.8	62.2	62.4	61.6	57.3	51.7
15°	82.1	82.1	84.3	85.1	81.4	73.9	71.5	70.9	70.5	66.0	58.1
17.5°	90.4	90.8	91.0	91.0	89.8	83.5	80.6	79.4	75.8	71.7	64.4
20°	97.2	97.5	95.6	95.8	97.7	92.2	89.3	86.9	83.1	78.8	69.7
22.5°	106.8	106.4	103.5	102.3	106.4	101.7	98.7	96.0	91.4	86.5	78.2
25°	117.3	116.9	114.1	111.0	113.9	109.6	106.4	103.9	99.7	96.4	79.4
27.5°	127.4	127.0	122.2	121.8	119.3	117.3	113.9	113.3	110.0	100.5	78.8
30°	134.9	134.5	129.3	129.5	123.2	124.8	119.7	119.3	115.5	102.9	80.2
32.5°	137.8	138.2	135.9	134.9	126.4	132.9	128.2	126.6	125.6	109.4	87.3
35°	148.1	151.3	154.8	156.0	148.3	160.5	150.9	149.7	152.2	133.1	109.0
37.5°	227.7	226.1	213.3	195.3	191.3	218.0	216.6	217.6	216.0	189.4	144.3
40°	227.9	228.9	220.8	209.9	197.1	224.5	245.4	226.9	253.9	206.5	158.2
42.5°	239.5	236.2	255.5	259.7	245.6	286.3	347.9	278.4	336.5	251.6	215.4
45°	283.4	283.4	286.9	288.9	283.8	386.2	505.3	388.4	449.8	314.8	258.5
47.5°	328.8	325.0	344.6	377.6	397.3	497.0	667.0	513.2	610.0	423.2	358.8
50°	458.5	464.0	501.6	540.1	569.5	739.9	1073.8	879.3	996.4	650.8	547.8
52.5°	559.2	591.2	620.2	728.2	741.3	1011.0	1411.5	1179.8	1276.6	914.3	678.3
55°	663.1	726.5	743.8	934.4	949.4	1299.1	1680.4	1494.4	1521.7	1205.5	805.3
57.5°	853.6	942.1	948.0	1151.4	1150.8	1673.7	2097.9	1946.0	1925.3	1535.1	1000.0
60°	1017.5	1118.4	1082.3	1364.1	1300.9	1949.8	2324.2	2171.1	2125.9	1799.5	1137.0
62.5°	1116.9	1215.4	1171.0	1504.3	1396.7	2081.9	2406.1	2316.8	2239.8	1959.6	1248.6
65°	1191.1	1292.6	1226.1	1583.9	1394.9	2088.4	2449.5	2391.7	2301.6	2001.3	1273.1
67.5°	1181.4	1280.4	1200.8	1552.3	1297.5	1901.8	2322.0	2250.1	2138.7	1840.2	1190.7
70°	1024.4	1084.1	996.6	1322.2	1037.3	1471.1	1808.8	1767.3	1660.1	1408.7	921.0
72.5°	862.3	877.1	795.0	1034.9	808.8	1071.8	1374.5	1330.1	1259.8	1045.4	696.1
75°	666.0	666.0	618.9	776.0	600.9	760.6	1040.4	1029.0	985.7	784.5	528.6
77.5°	449.8	426.3	419.2	524.1	415.1	501.8	724.3	751.0	739.7	561.6	385.3
80°	262.2	267.8	257.9	323.6	273.1	328.2	464.8	500.0	499.0	373.0	252.8
82.5°	204.4	208.5	198.1	233.0	208.5	258.3	325.8	323.6	331.3	270.3	190.2
85°	201.4	204.4	193.7	215.4	200.2	245.4	306.1	305.5	303.9	250.2	178.7
87.5°	183.2	187.2	177.9	195.3	181.5	224.1	278.2	281.4	276.8	234.6	171.8
90°	153.2	157.4	153.4	173.6	159.4	193.3	241.9	244.3	240.3	209.1	155.0
92.5°	137.8	140.6	135.7	153.4	138.4	169.8	213.7	215.2	208.9	184.0	134.1
95°	127.0	129.9	123.8	136.8	122.2	149.7	181.9	186.6	177.3	155.2	114.3
97.5°	105.6	103.7	101.3	112.4	101.1	117.9	139.2	142.6	136.8	120.3	91.0
100°	91.4	92.0	91.0	99.1	88.7	101.3	117.9	119.3	116.9	104.9	82.3
102.5°	88.5	88.7	90.6	96.0	84.1	93.2	107.4	108.2	107.6	96.2	76.0
105°	87.7	87.5	88.5	94.4	82.1	85.3	98.9	99.3	97.2	89.5	71.1
107.5°	82.9	83.5	83.3	88.5	80.6	81.0	89.8	89.5	89.1	82.1	67.3
110°	95.0	94.0	89.8	90.0	82.3	84.3	93.0	92.0	90.0	85.7	73.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	135.1	132.3	127.4	111.4	103.3	109.0	*114.9*	115.9	113.7	109.8	92.8
115°	149.9	149.5	144.0	133.5	106.8	108.8	*112.6*	114.3	116.9	109.4	95.0
117.5°	123.0	129.7	121.2	122.6	107.4	94.4	*93.8*	90.6	92.0	91.2	87.9
120°	155.2	156.4	139.2	135.9	125.4	129.7	*129.9*	130.3	126.0	105.6	93.0
122.5°	218.2	218.2	223.1	232.0	226.5	218.8	*214.4*	209.9	204.0	184.6	157.8
125°	276.8	276.3	273.7	278.2	272.7	275.7	*277.2*	278.4	272.1	248.4	211.9
127.5°	223.1	228.7	238.3	262.4	247.2	242.9	*238.9*	241.7	237.0	232.6	209.9
130°	172.8	173.4	189.0	204.4	203.2	189.6	*185.0*	176.9	178.7	178.1	164.5
132.5°	147.7	148.5	157.6	166.3	173.6	163.7	*154.6*	150.3	151.7	150.7	142.0
135°	129.1	129.1	125.8	124.8	130.9	140.0	*139.0*	133.5	130.9	127.8	114.9
137.5°	111.6	111.2	105.4	102.1	107.0	118.7	*119.5*	119.5	116.9	109.6	100.3
140°	92.0	91.4	88.3	88.9	90.2	98.1	*98.7*	100.5	100.1	94.2	82.9
142.5°	69.7	69.9	74.4	79.4	82.3	99.3	*96.6*	94.6	101.1	100.7	72.3
145°	93.0	91.0	91.0	88.7	95.4	112.2	*107.0*	108.6	117.1	109.2	78.2
147.5°	85.3	86.3	86.5	86.1	94.6	95.6	*91.8*	92.0	95.0	95.0	80.0
150°	66.0	64.4	64.8	65.6	74.6	73.9	*70.5*	70.3	72.7	72.1	65.4
152.5°	52.3	52.1	51.9	52.7	60.0	56.9	*55.5*	54.9	54.5	53.9	52.3
155°	49.2	49.0	48.6	49.6	53.9	52.5	*51.7*	51.7	50.7	49.6	48.6
157.5°	43.8	43.6	43.8	45.8	48.2	46.6	*46.4*	46.2	45.8	44.6	44.2
160°	40.9	40.7	41.1	42.7	43.8	42.3	*41.9*	42.1	41.9	41.3	42.1
162.5°	38.7	38.7	38.7	39.7	40.1	39.1	*38.9*	39.1	39.3	39.3	40.3
165°	37.5	37.5	37.7	38.3	38.3	37.9	*37.5*	37.5	38.5	38.9	39.7
167.5°	38.3	38.3	38.5	38.7	38.7	38.3	*38.3*	38.5	39.1	39.5	39.5
170°	39.5	39.5	39.5	39.7	39.5	38.9	*38.9*	38.9	39.1	39.1	39.3
172.5°	40.9	40.9	40.9	40.7	40.3	40.1	*39.7*	39.7	39.9	39.7	39.9
175°	43.0	42.7	42.7	42.5	42.3	42.1	*41.9*	41.7	41.7	41.1	41.1
177.5°	44.0	43.8	44.0	44.0	43.8	43.4	*43.0*	43.0	42.7	42.3	42.1
180°	42.3	42.3	42.3	42.3	42.3	42.3	*42.3*	42.3	42.3	42.3	42.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	17.0	16.4	14.8	13.4	12.4	12.0	12.0	11.3	10.5	9.9	9.7
5°	22.5	22.1	21.5	20.7	18.8	16.4	14.4	13.6	13.2	13.0	12.8
7.5°	31.8	32.2	33.0	32.8	29.4	22.9	19.0	18.8	21.1	23.5	24.3
10°	41.1	40.7	43.4	45.6	37.1	25.9	19.7	19.0	22.1	26.3	26.9
12.5°	49.2	47.2	45.8	43.4	35.5	25.9	21.1	19.9	21.3	24.5	24.5
15°	55.3	52.7	46.8	41.1	34.0	26.7	21.9	21.1	21.1	20.1	20.3
17.5°	60.0	55.1	46.6	39.3	31.6	25.5	21.7	19.4	18.2	16.6	16.2
20°	65.4	62.0	50.7	40.5	31.2	24.7	21.1	18.4	17.0	16.4	16.2
22.5°	71.3	64.2	53.3	40.9	31.2	25.1	20.9	18.0	16.8	16.4	16.4
25°	71.9	65.8	54.7	42.5	32.2	25.9	21.3	18.2	17.0	16.6	16.4
27.5°	71.1	66.9	57.1	44.4	33.2	26.7	22.1	18.6	17.0	16.4	16.2
30°	74.2	70.7	60.0	45.6	34.2	27.8	22.9	19.4	17.4	16.2	16.0
32.5°	81.9	77.0	63.8	46.4	34.6	28.0	23.7	20.3	17.8	16.4	16.2
35°	102.1	97.7	78.6	49.2	34.6	28.4	24.3	20.9	18.2	16.6	16.4
37.5°	131.5	123.2	96.6	58.8	35.1	29.2	24.9	21.7	18.8	17.0	16.6
40°	139.4	117.7	82.1	52.7	35.9	30.0	25.9	22.5	19.7	17.6	17.4
42.5°	180.9	150.5	101.3	55.7	38.3	30.6	26.5	23.3	20.3	18.2	17.8
45°	193.7	150.7	102.9	64.4	45.0	33.2	27.6	23.9	20.7	18.6	18.4
47.5°	253.9	187.0	104.9	69.1	50.4	38.3	30.0	24.7	21.1	19.0	18.8
50°	372.2	263.8	130.3	86.3	62.4	46.8	35.3	26.3	21.5	19.7	19.2
52.5°	464.4	316.5	141.2	105.6	82.9	61.8	44.4	30.6	22.7	20.1	19.7
55°	566.1	388.8	160.5	127.2	100.5	77.4	56.3	36.9	25.1	20.7	20.3
57.5°	706.1	464.2	188.4	150.1	122.0	90.4	64.2	43.2	28.4	22.1	21.3
60°	791.2	496.2	192.9	162.5	134.7	100.7	67.7	45.8	31.8	24.1	22.9
62.5°	872.6	518.3	194.1	167.3	137.8	102.7	68.1	44.6	33.0	26.9	25.3
65°	*889.2*	*496.4*	*194.5*	*168.4*	*134.1*	*97.5*	*65.8*	*43.4*	*31.6*	*29.4*	*29.6*
67.5°	833.1	440.9	180.3	161.1	124.4	86.9	59.2	41.5	31.2	29.0	29.6
70°	655.0	345.4	164.7	149.3	105.6	73.9	52.7	39.1	31.2	28.0	27.4
72.5°	508.5	295.2	168.8	141.8	90.4	66.0	47.6	36.5	30.2	27.8	27.4
75°	394.7	246.4	166.3	124.8	73.7	56.7	42.7	33.4	28.8	27.4	27.1
77.5°	288.5	194.3	137.6	95.6	61.2	48.2	37.7	31.4	28.0	26.7	26.5
80°	185.6	135.9	95.8	76.4	53.7	44.0	35.3	30.0	27.6	26.7	26.5
82.5°	156.4	123.4	86.3	72.3	51.9	44.8	36.9	31.4	29.0	28.2	28.0
85°	150.5	127.0	88.7	75.4	49.6	42.7	36.1	31.4	29.2	28.2	28.0
87.5°	143.0	114.9	87.5	69.3	47.8	41.1	35.5	32.2	30.0	29.4	29.2
90°	129.5	101.3	80.2	64.4	50.4	43.8	39.1	35.7	33.4	32.0	31.6
92.5°	109.2	81.4	68.9	63.6	55.3	49.6	45.0	41.9	39.5	38.1	37.5
95°	92.0	71.1	60.0	56.3	48.8	44.6	40.1	37.9	36.1	34.8	34.8
97.5°	75.0	61.0	55.7	52.9	46.8	42.1	38.5	36.3	35.7	35.3	35.1
100°	70.5	59.8	56.1	53.7	48.8	44.6	41.7	39.7	39.5	39.3	39.3
102.5°	65.4	56.5	52.5	50.0	45.2	41.5	39.5	37.9	37.3	36.7	36.1
105°	61.8	53.5	50.4	47.2	43.4	39.7	37.7	35.3	34.8	34.6	34.6
107.5°	60.0	53.1	51.5	46.4	42.7	41.1	38.7	35.7	35.1	34.2	34.2
110°	66.3	59.0	54.3	48.0	44.2	42.7	42.1	39.5	37.5	35.1	34.8

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

Scaled Data Report

REPORT NUMBER: P1046568
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	82.1	72.1	66.7	57.3	49.4	46.0	43.4	40.5	39.3	37.7	37.1
115°	88.3	78.2	71.3	62.0	52.9	46.8	43.0	42.5	41.3	40.3	41.3
117.5°	90.6	71.1	58.8	56.5	49.6	44.8	43.0	42.3	42.7	42.7	40.9
120°	97.7	76.8	72.1	69.3	56.3	48.4	44.4	46.4	46.0	43.6	43.6
122.5°	145.7	130.1	114.7	95.6	79.4	70.1	56.3	47.2	45.4	43.8	42.7
125°	191.9	177.9	153.8	128.4	100.5	74.4	55.9	49.4	46.0	44.0	44.4
127.5°	195.5	180.7	153.2	122.2	89.8	69.5	56.3	50.7	46.8	44.6	44.2
130°	152.8	142.2	121.6	98.9	76.2	62.2	52.1	46.4	43.0	40.9	40.5
132.5°	135.1	126.2	104.7	84.9	69.5	57.7	49.0	42.7	40.3	38.9	38.7
135°	108.0	100.5	86.1	75.4	64.6	54.9	46.2	40.3	38.1	37.9	37.5
137.5°	94.6	88.5	77.4	68.5	59.6	50.2	43.0	38.1	37.1	37.3	36.7
140°	77.2	74.6	68.3	60.6	51.1	41.3	36.3	34.6	36.3	37.1	37.1
142.5°	66.3	62.8	55.7	46.8	40.7	36.3	35.7	35.1	35.9	36.3	36.3
145°	61.0	56.9	51.1	47.8	45.0	41.1	37.9	35.1	34.2	34.4	34.4
147.5°	68.9	64.2	60.4	54.3	47.4	40.9	36.1	32.8	32.8	33.6	33.8
150°	57.1	53.1	50.4	47.0	41.7	36.5	33.0	31.4	32.0	33.6	33.8
152.5°	47.8	43.0	41.3	39.3	36.5	33.6	32.0	31.2	32.2	33.4	33.4
155°	46.6	42.3	40.3	38.3	35.7	33.2	31.8	31.4	32.4	33.2	33.4
157.5°	43.8	41.3	38.7	37.1	35.1	33.2	32.2	31.8	32.6	33.2	33.4
160°	42.1	40.7	37.7	36.3	34.4	33.2	33.0	33.0	33.4	33.6	33.6
162.5°	40.3	39.5	37.7	36.5	35.3	34.6	35.1	35.3	35.3	35.1	35.1
165°	39.7	39.3	37.7	36.7	36.1	36.3	37.1	37.3	36.7	36.3	36.3
167.5°	39.5	39.5	38.3	37.5	37.3	37.7	38.5	38.5	37.9	37.1	36.9
170°	39.5	39.7	39.3	39.3	38.9	39.1	39.3	39.3	38.9	38.5	38.3
172.5°	40.1	40.1	40.1	40.1	39.9	40.1	40.3	40.3	40.3	40.1	40.1
175°	41.1	41.1	41.1	40.9	40.7	40.7	40.9	41.1	41.3	41.3	41.3
177.5°	42.1	41.9	41.7	41.9	41.7	41.7	42.1	42.3	42.5	42.5	42.5
180°	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-9

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

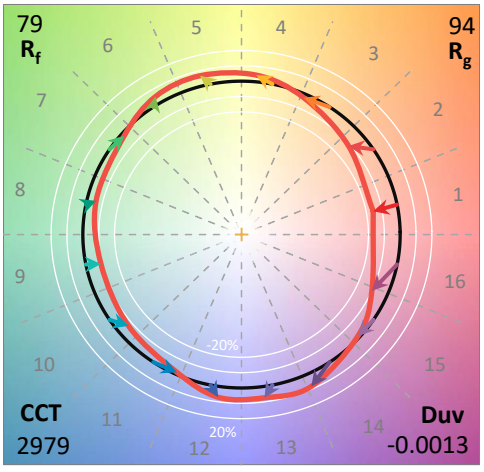
Test Information

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

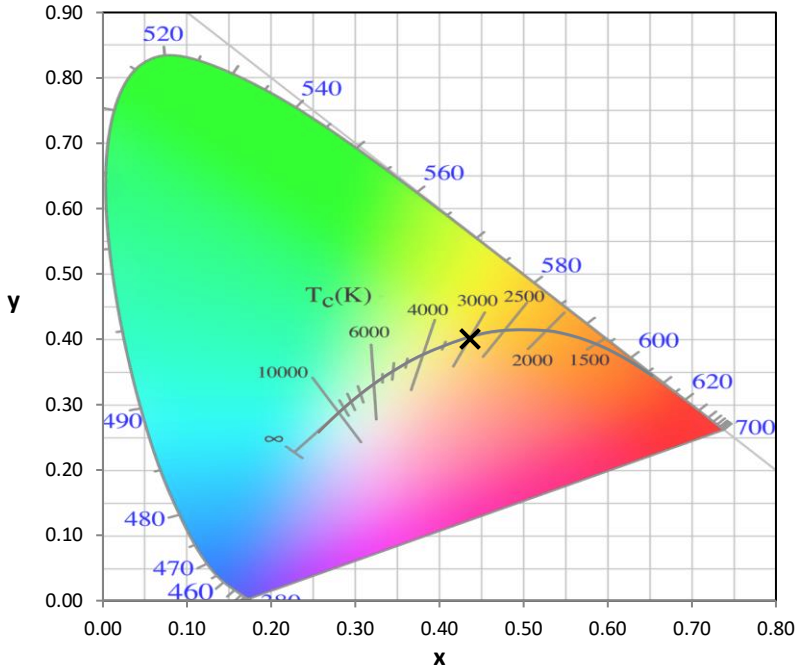
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

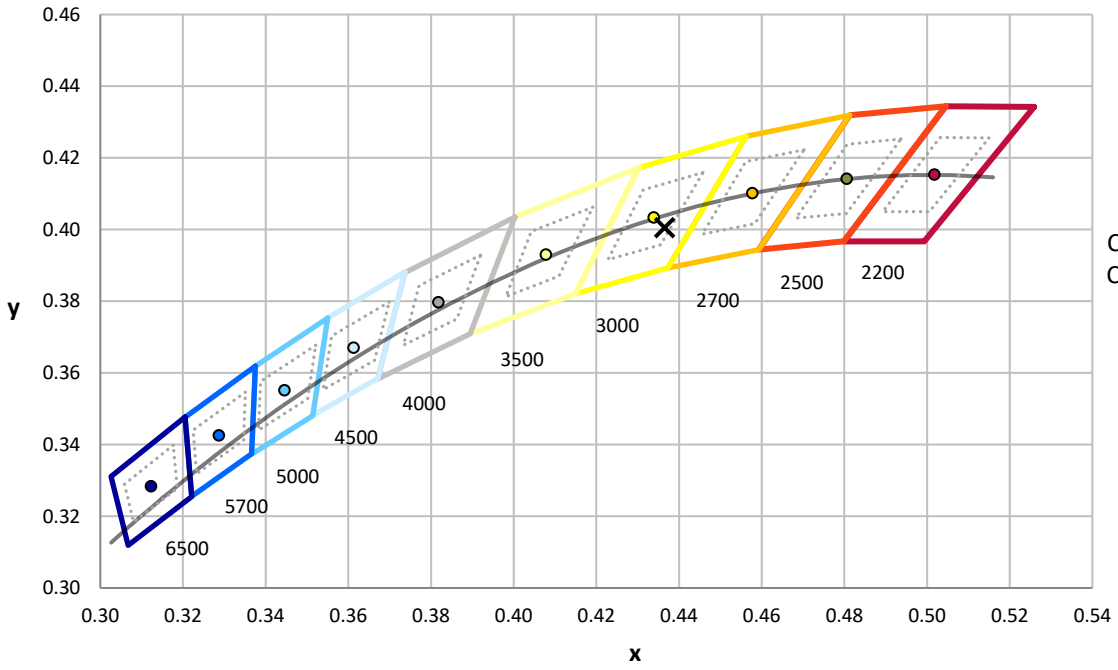
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

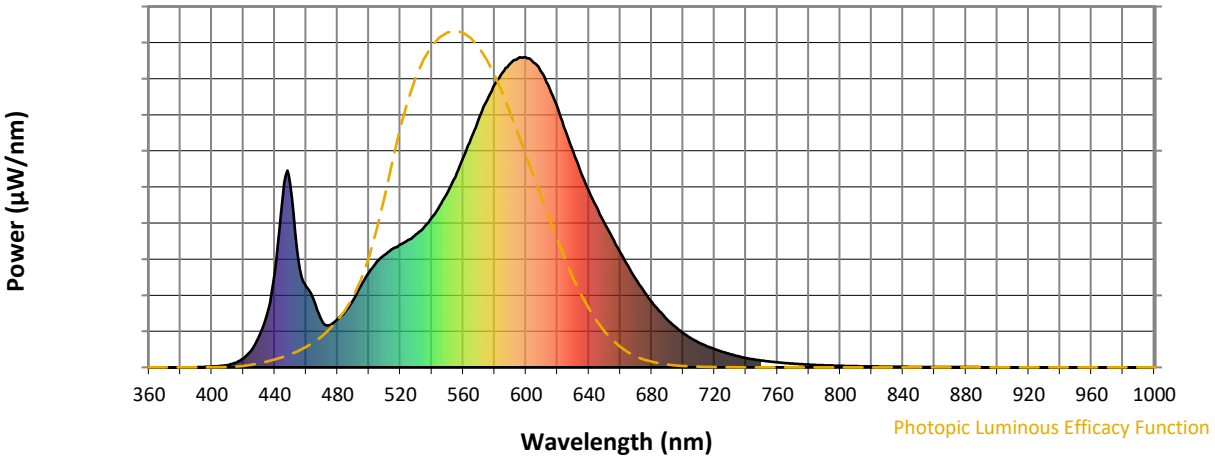


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

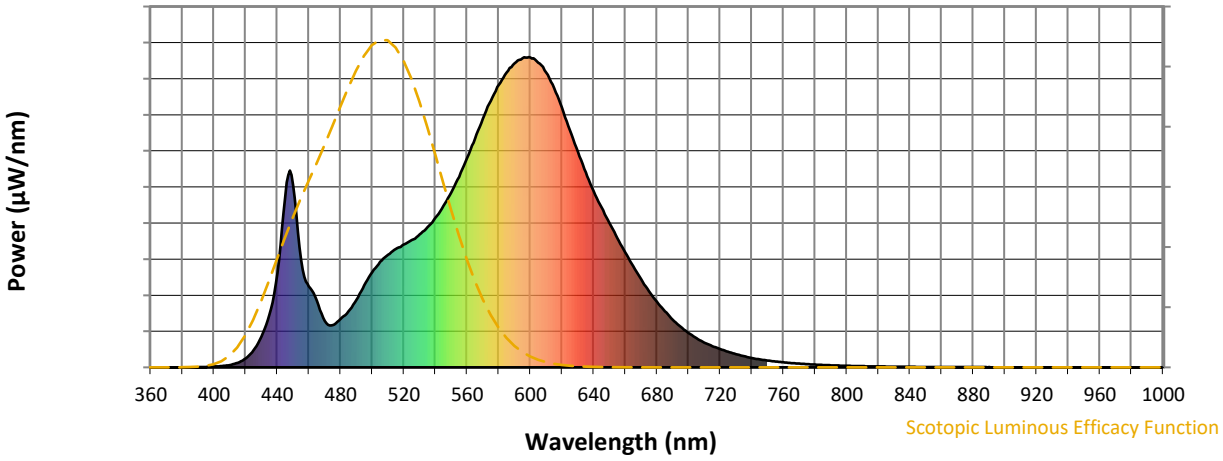


Photopic Lumens: NR

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

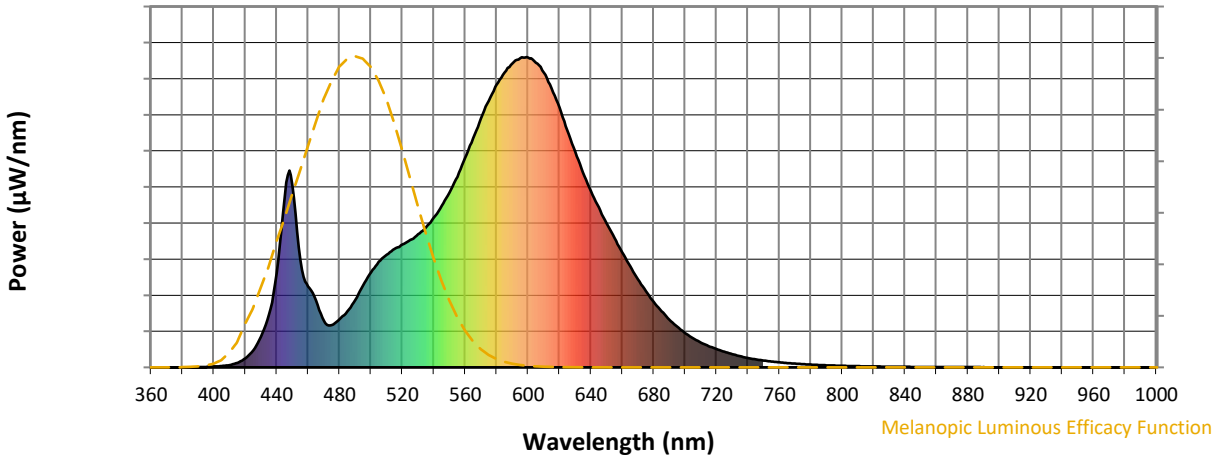


Scotopic Lumens: NR **S/P: 1.29**

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			

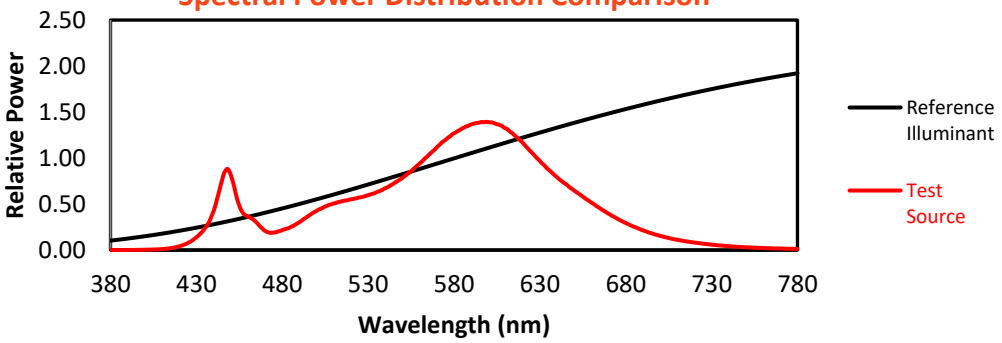
REPORT NUMBER: SP1-2501-332-9

TM-30-18

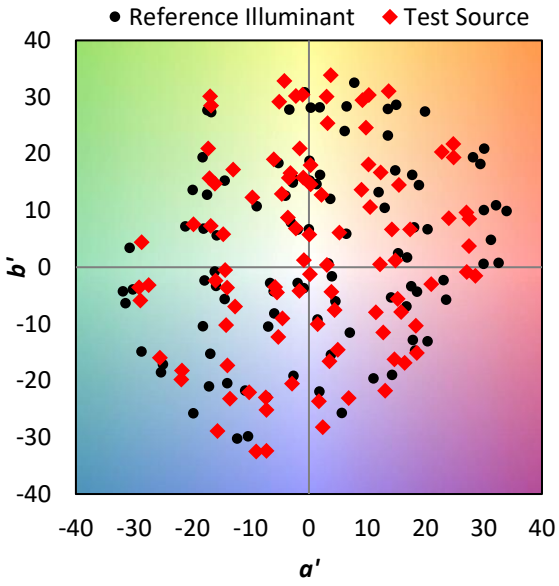
Summary

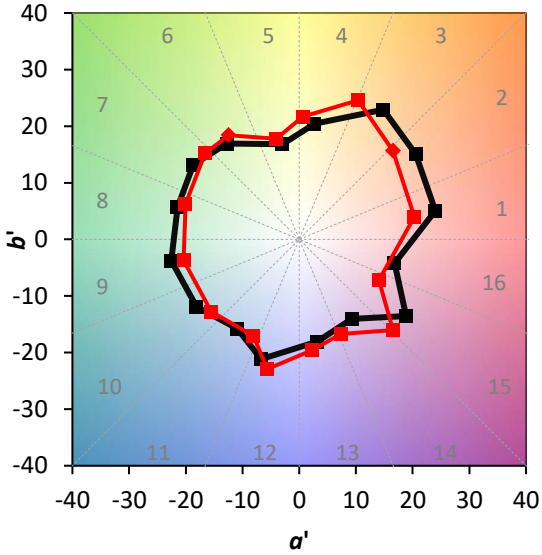
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

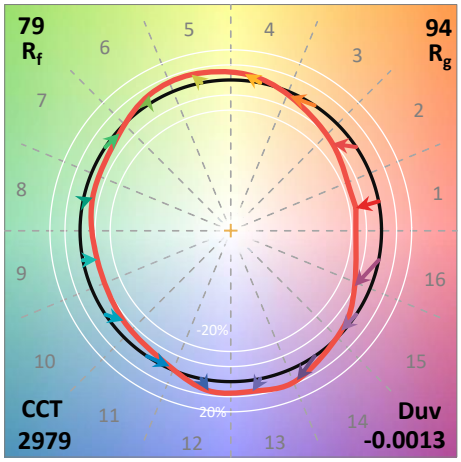
Spectral Power Distribution Comparison

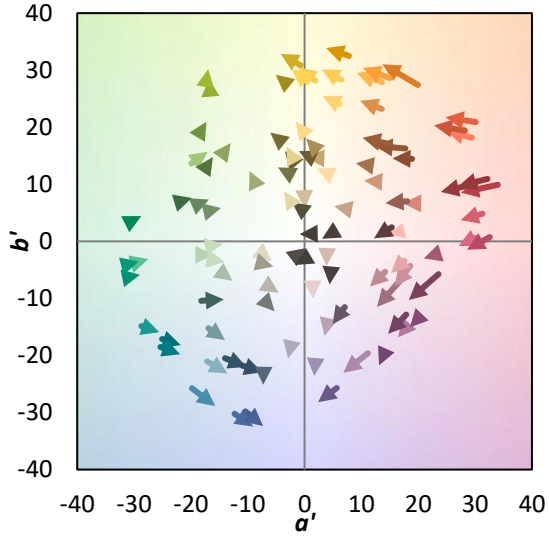


Color Vector Graphics







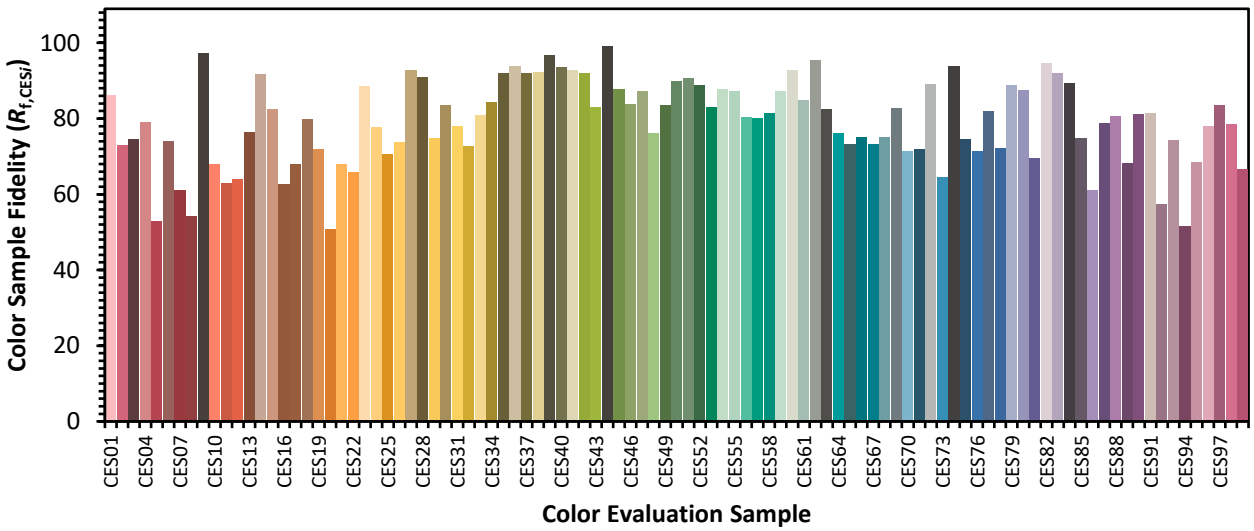


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

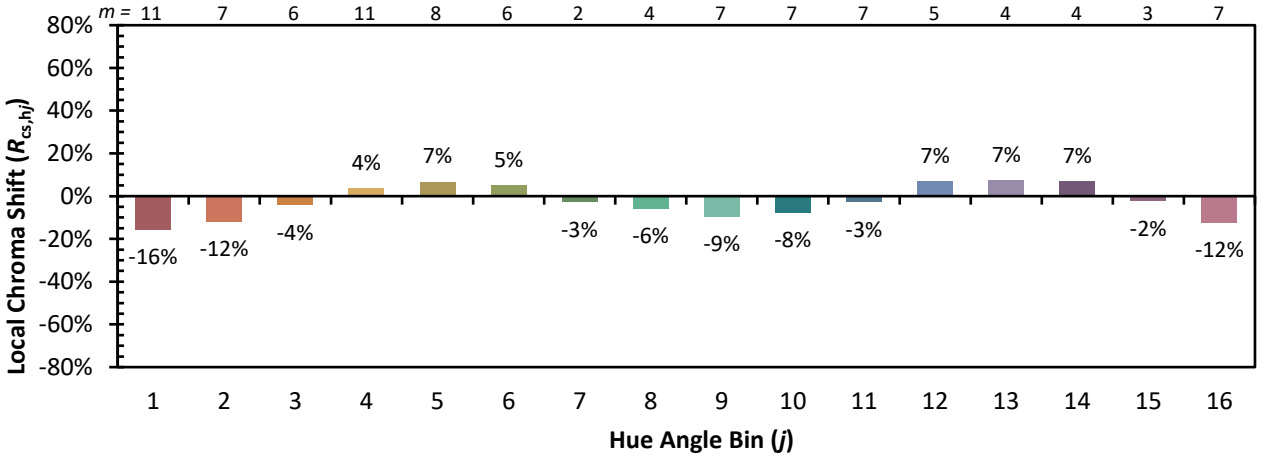
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 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	

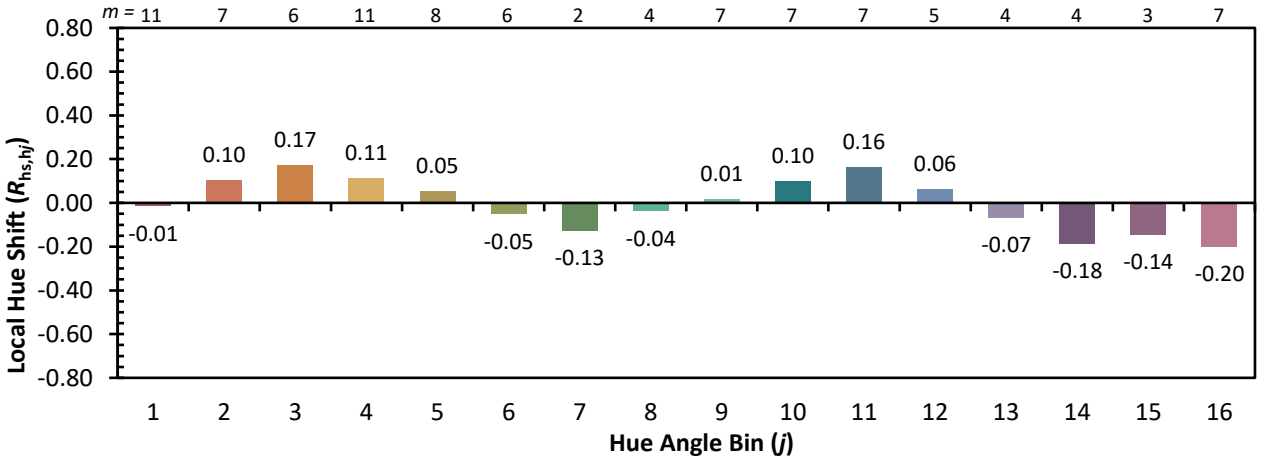


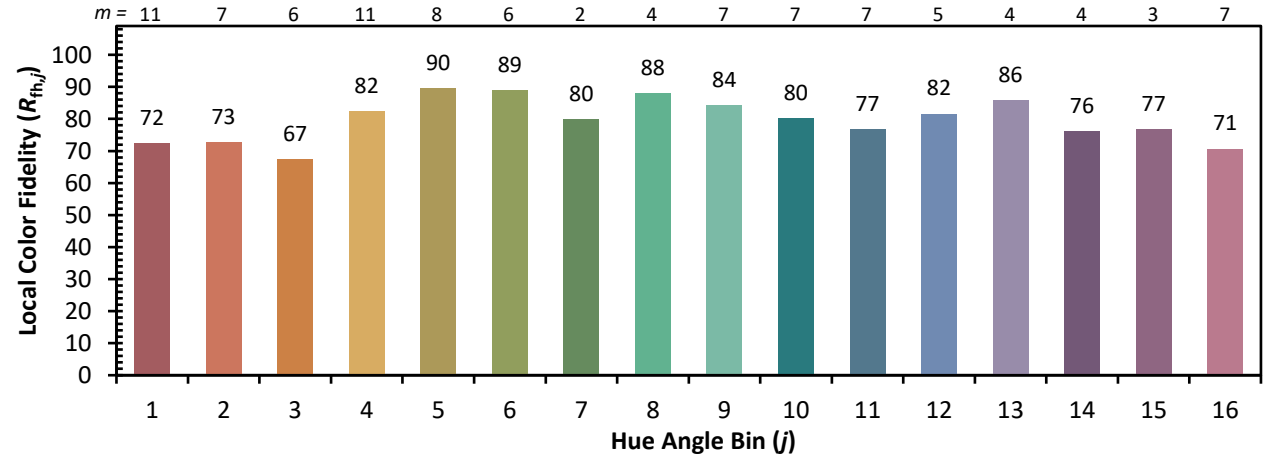
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Color Rendition by Hue-Angle Bin



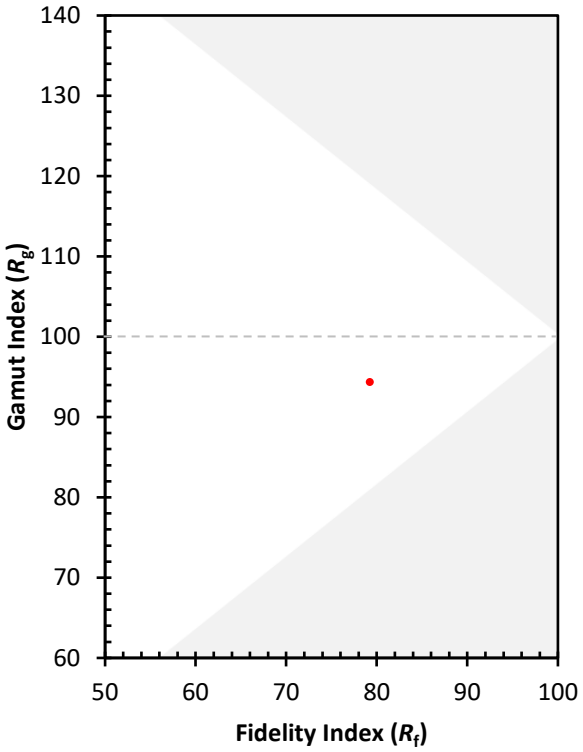


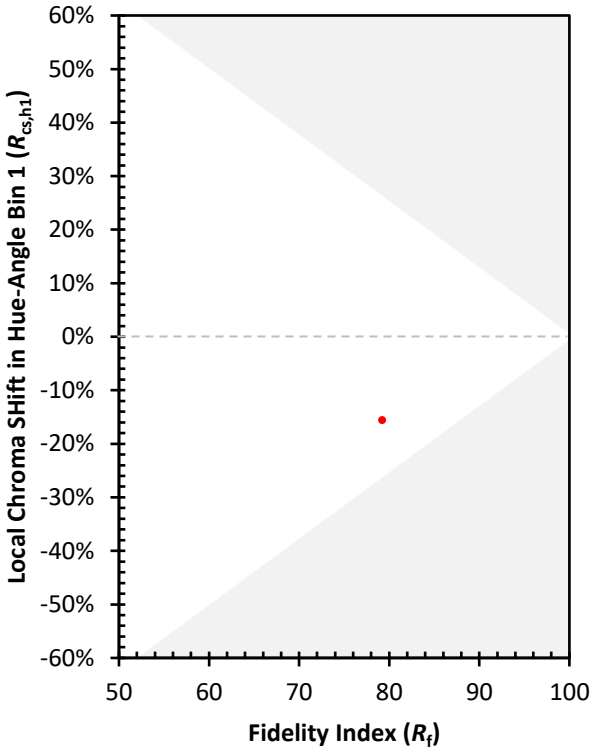


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Measure Comparisons





(END OF REPORT)