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: P1046253

Luminaire Tested: **FFX-CLB-20-730-U-FR-T4-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:	P1046253
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-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, 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:	2882.7 lumens
Efficiency:	N/A
Efficacy:	145.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - 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

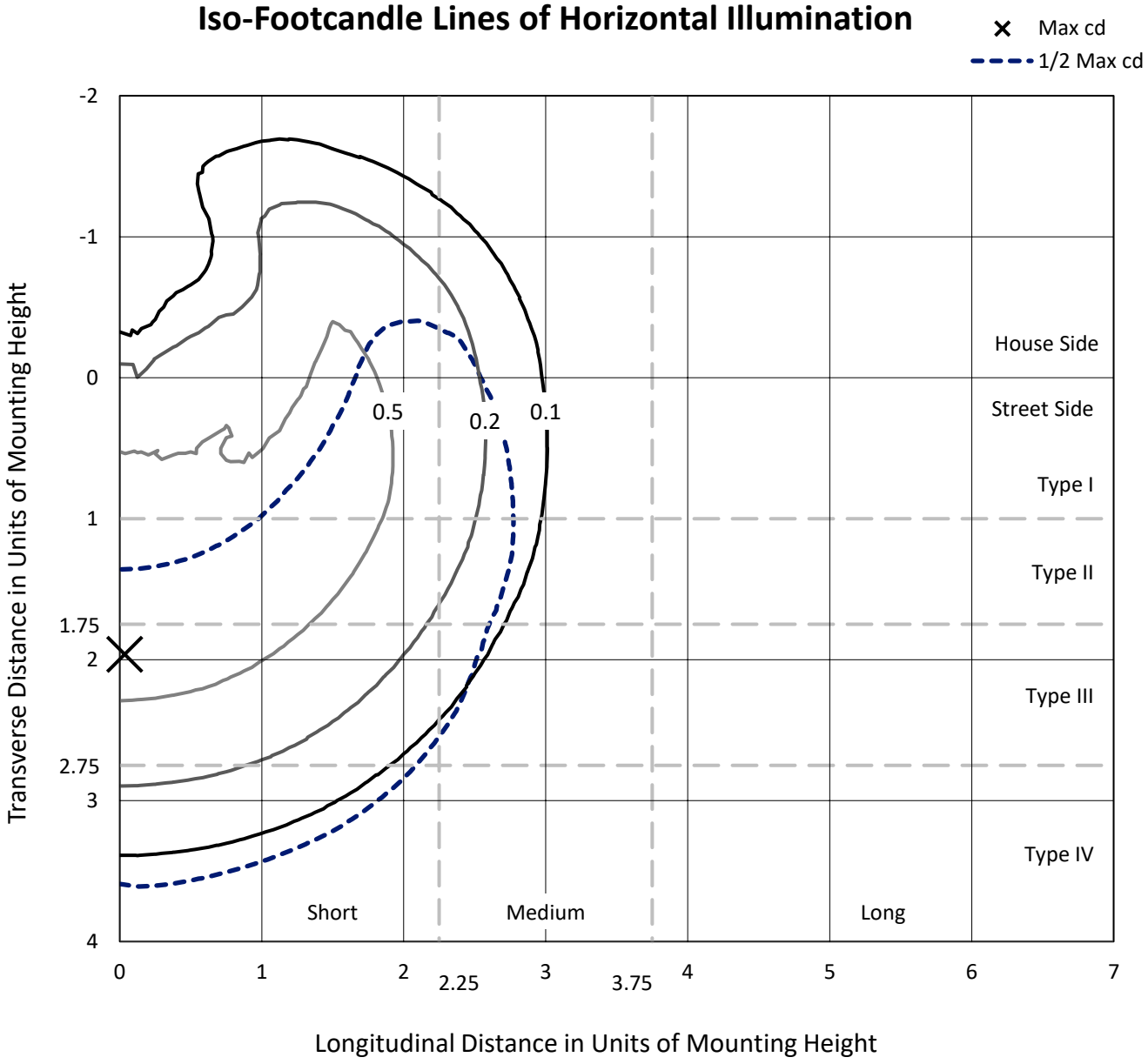


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Iso-Footcandle Lines of Horizontal Illumination



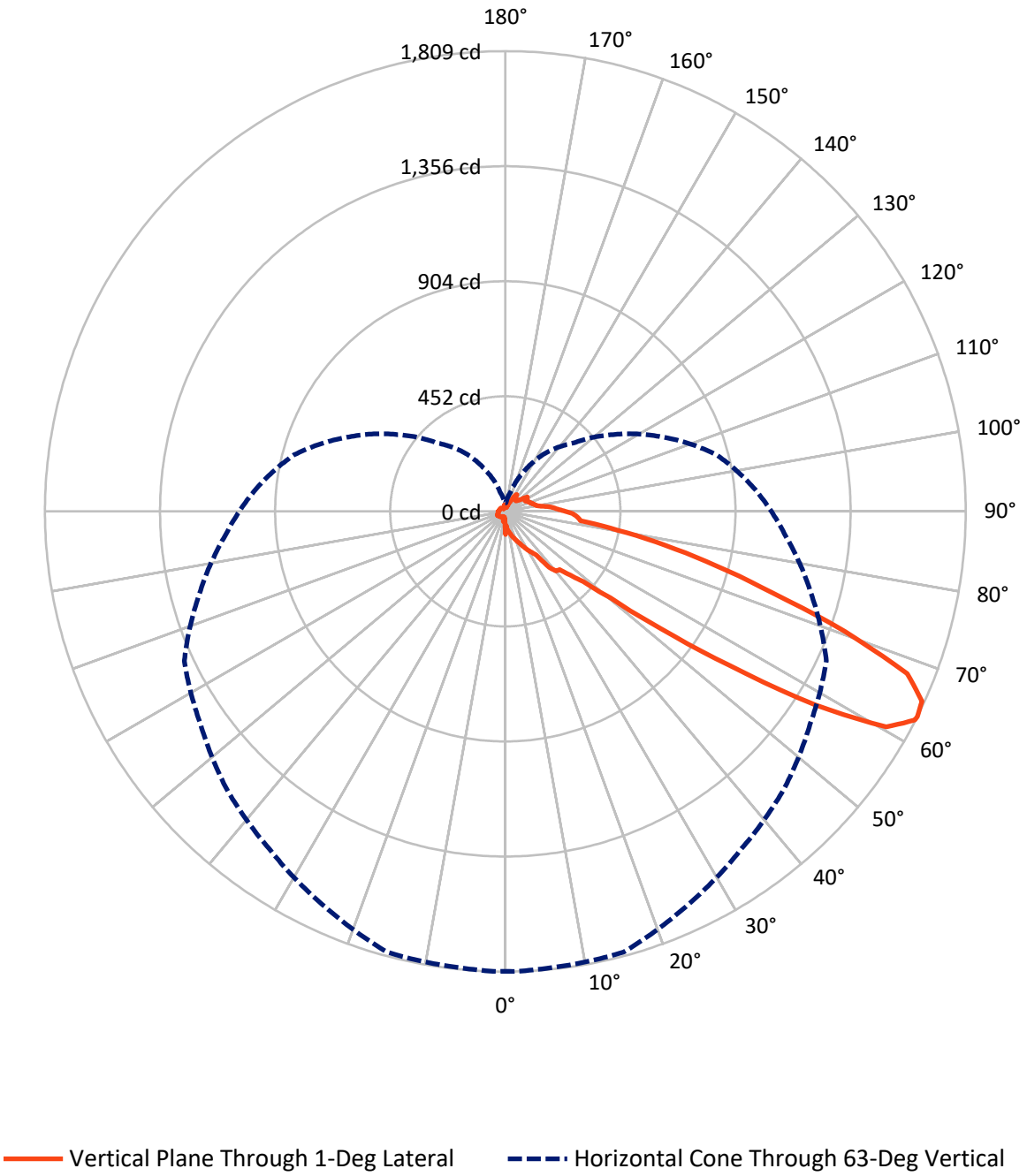
Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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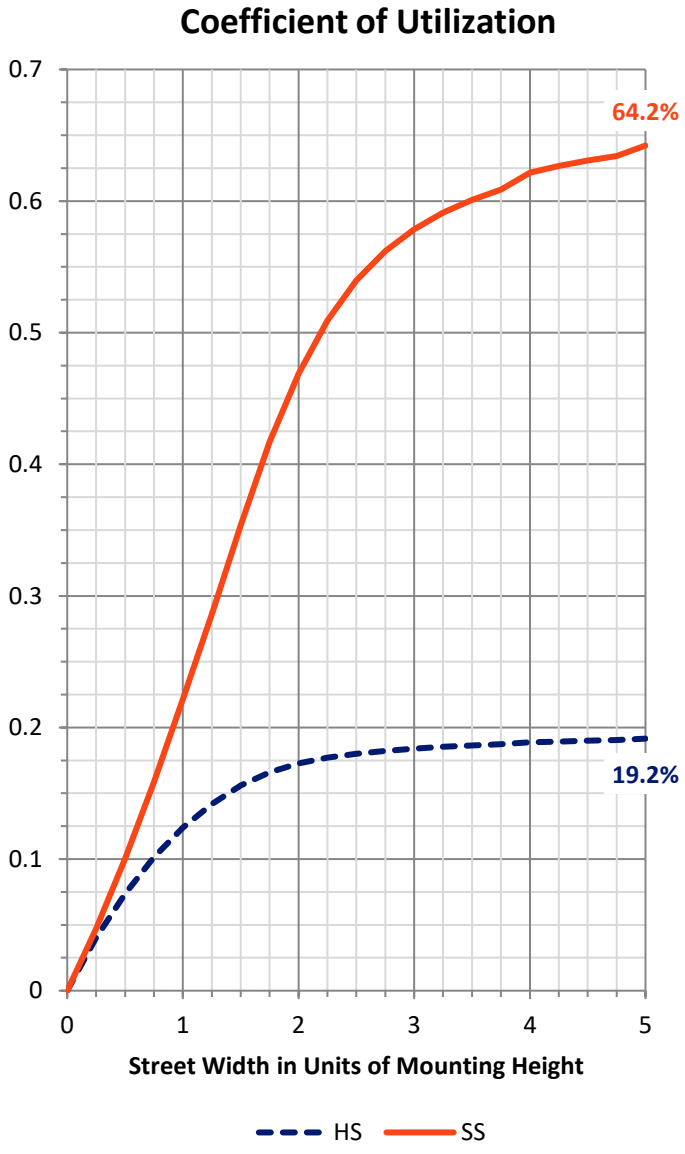
REPORT NUMBER: P1046253
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	570.8	114.3	685.1
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	1933.6	264.0	2197.6
	% Fixture	67.1	9.2	76.2
Total	Lumens	2504.4	378.3	2882.7
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.2
10°-20°	19.0	0.7
20°-30°	41.8	1.5
30°-40°	85.6	3.0
40°-50°	172.9	6.0
50°-60°	558.0	19.4
60°-70°	919.3	31.9
70°-80°	506.7	17.6
80°-90°	195.8	6.8
90°-100°	117.4	4.1
100°-110°	74.8	2.6
110°-120°	57.2	2.0
120°-130°	48.8	1.7
130°-140°	32.7	1.1
140°-150°	27.9	1.0
150°-160°	12.7	0.4
160°-170°	5.1	0.2
170°-180°	1.7	0.1
0°-90°	2504.4	86.9
0°-180°	2882.7	100.0



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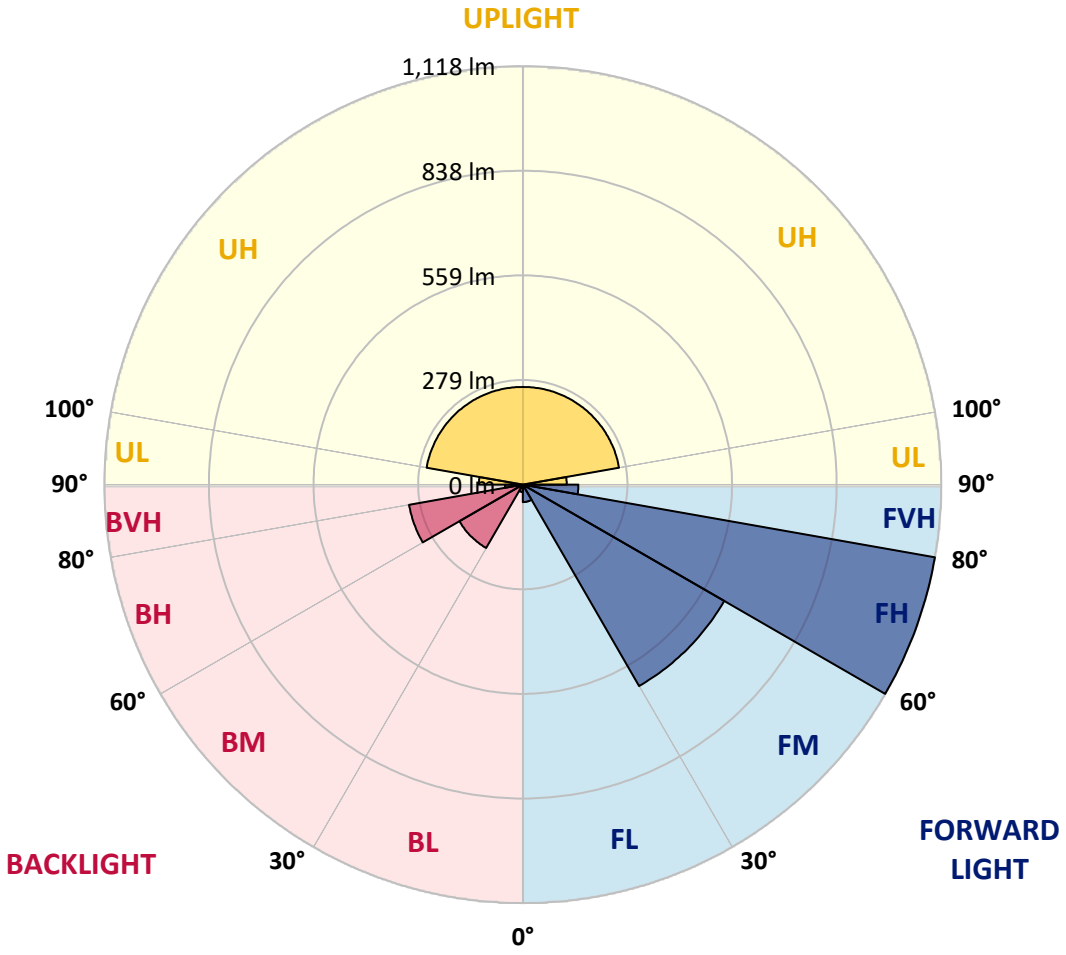
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	46.7	1.6			
FM	(30°-60°)	621.0	21.5			
FH	(60°-80°)	1117.6	38.8			G1/1800
FVH	(80°-90°)	148.3	5.1			G2/225
BL	(0°-30°)	19.5	0.7	B0/110		
BM	(30°-60°)	195.4	6.8	B0/220		
BH	(60°-80°)	308.5	10.7	B1/500		G1/500
BVH	(80°-90°)	47.4	1.6			G1/100
UL	(90°-100°)	117.4	4.1		U3/500	
UH	(100°-180°)	260.9	9.1		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2.5°	56.4	55.8	58.4	66.6	75.7	78.5	72.6	70.3	76.9	92.1	93.7
5°	65.0	66.0	65.4	66.4	67.3	73.6	79.4	73.4	59.5	48.6	49.4
7.5°	76.7	76.5	76.5	75.7	71.6	65.0	63.2	67.9	68.1	57.0	48.4
10°	81.8	81.6	81.6	80.8	80.0	80.6	78.5	69.9	63.0	58.4	55.6
12.5°	92.7	92.3	92.1	91.7	90.2	88.6	87.2	87.6	81.6	70.3	63.0
15°	101.7	101.3	101.7	102.1	101.1	98.2	94.1	88.4	83.0	78.3	71.8
17.5°	111.6	111.3	111.1	110.7	109.3	105.4	100.5	95.1	89.2	82.6	76.5
20°	121.0	120.6	120.8	121.0	120.4	115.7	110.7	104.2	97.8	91.5	84.3
22.5°	132.3	132.3	131.6	131.6	131.0	128.2	122.0	114.4	107.9	99.9	91.9
25°	146.8	146.2	146.2	145.6	143.1	140.1	135.8	127.1	119.3	111.8	101.1
27.5°	161.2	160.6	160.6	160.4	157.3	153.2	146.0	137.8	130.4	120.8	107.9
30°	177.6	177.2	177.4	175.1	172.7	166.9	157.9	148.5	138.8	127.5	115.0
32.5°	194.2	193.0	192.8	190.3	187.0	180.0	170.0	161.0	150.9	137.8	127.3
35°	213.7	211.0	213.9	213.3	212.9	205.5	194.0	183.5	171.6	159.7	148.5
37.5°	278.1	279.3	278.7	270.5	263.9	253.9	248.7	236.4	220.0	205.5	184.1
40°	308.4	308.0	307.0	298.0	292.0	281.5	273.3	264.1	254.5	231.7	205.3
42.5°	315.0	312.7	314.4	322.8	330.6	323.6	297.5	267.8	254.3	238.3	224.5
45°	363.0	357.2	359.7	361.9	354.3	344.3	333.0	313.7	291.0	268.0	242.8
47.5°	414.2	411.1	410.9	410.1	410.9	401.3	386.3	368.5	336.3	311.5	283.4
50°	539.1	535.0	536.2	537.3	533.0	523.1	506.9	495.2	456.7	409.1	372.6
52.5°	768.2	765.7	760.0	760.4	721.6	719.6	697.6	687.2	630.4	576.0	502.4
55°	1050.9	1066.9	1049.3	1045.8	1029.8	1015.5	960.5	915.0	833.6	755.4	669.1
57.5°	1434.0	1436.7	1414.3	1414.9	1358.1	1322.0	1271.4	1201.7	1080.5	967.7	870.9
60°	1713.1	1719.8	1709.4	1687.6	1577.7	1513.1	1457.4	1402.4	1309.9	1142.4	1007.7
62.5°	1803.9	1806.0	1799.4	1787.9	1690.9	1608.5	1536.7	1457.0	1386.0	1235.1	1099.7
63°	1807.2	1808.6	1803.5	1793.7	1703.6	1618.1	1546.4	1461.1	1391.5	1243.3	1105.3
65°	1798.4	1799.0	1796.7	1783.6	1711.6	1621.2	1542.3	1458.2	1394.4	1246.6	1105.3
67.5°	1719.0	1703.4	1710.0	1687.9	1628.0	1538.0	1462.5	1376.8	1319.4	1176.4	1041.1
70°	1414.3	1415.3	1414.3	1402.2	1385.2	1314.0	1225.9	1148.7	1076.2	964.0	857.8
72.5°	1094.2	1098.5	1089.1	1096.0	1082.3	1023.5	966.5	888.3	837.3	742.1	648.4
75°	847.5	856.3	859.2	839.3	827.4	814.9	783.7	727.6	676.5	602.9	521.1
77.5°	640.4	642.0	644.5	631.0	615.4	620.3	615.8	589.1	546.3	492.1	427.1
80°	442.5	447.2	455.2	447.4	449.3	446.4	445.8	424.5	393.5	359.5	324.6
82.5°	297.3	297.1	299.2	311.7	323.2	322.8	304.5	274.6	258.8	248.9	229.3
85°	284.6	284.6	287.5	278.5	272.7	267.0	265.8	255.5	243.4	221.3	194.0
87.5°	265.3	264.7	265.6	257.8	250.2	248.3	246.5	237.7	232.3	213.1	188.0
90°	227.0	228.6	228.6	228.0	223.3	221.5	214.1	206.7	203.4	186.0	166.3
92.5°	200.3	200.3	202.6	198.7	193.6	196.4	183.7	174.1	169.6	157.9	142.3
95°	181.1	180.5	183.3	177.8	174.1	168.8	163.4	153.4	150.1	140.1	124.3
97.5°	144.6	144.0	145.6	142.9	137.2	134.7	129.0	121.0	117.9	108.5	98.8
100°	124.5	124.3	124.9	123.4	120.2	117.1	112.2	105.8	102.9	95.1	86.5
102.5°	118.1	117.5	117.7	117.9	113.2	110.3	105.6	100.7	97.8	91.5	82.0
105°	112.4	112.0	111.6	111.6	106.2	103.4	100.3	97.0	94.5	87.6	78.5
107.5°	107.0	106.4	105.0	104.8	101.3	98.2	94.5	91.7	89.2	82.8	74.2

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	101.1	*100.9*	100.1	100.3	98.0	93.3	90.2	86.7	83.7	78.1	70.5
112.5°	98.0	*98.0*	97.4	98.4	89.8	85.1	81.8	78.7	76.7	71.4	65.6
115°	94.7	*93.1*	92.5	94.5	84.7	78.1	74.8	71.6	69.5	64.2	59.5
117.5°	87.8	*87.4*	87.6	89.2	86.3	79.2	73.8	69.7	67.7	63.8	59.5
120°	100.1	*99.7*	97.2	96.8	91.9	86.1	82.6	80.4	77.3	71.0	62.7
122.5°	104.6	*103.8*	99.9	101.1	94.5	91.7	90.2	89.4	86.5	78.1	65.6
125°	91.0	*89.8*	88.8	89.2	85.5	81.8	80.4	79.2	76.3	71.6	62.5
127.5°	73.0	*73.6*	72.8	70.5	69.9	64.4	62.5	61.1	58.4	54.5	53.1
130°	68.5	*68.1*	67.9	67.5	67.1	63.0	60.1	56.6	54.3	51.1	47.2
132.5°	60.9	*61.3*	61.9	65.4	68.7	65.2	57.8	52.5	51.1	51.7	50.0
135°	57.8	*58.0*	58.0	60.7	63.6	60.1	54.5	49.4	48.8	51.1	49.0
137.5°	59.3	*60.3*	60.1	59.5	57.8	55.4	54.1	51.3	49.6	48.2	44.7
140°	62.5	*63.8*	63.2	59.7	58.4	57.2	58.0	57.0	52.9	48.0	42.9
142.5°	62.1	*63.2*	62.7	62.3	64.6	61.7	57.8	53.9	50.6	48.0	44.7
145°	80.6	*80.2*	78.5	78.5	75.9	71.6	68.9	64.8	60.9	57.4	52.1
147.5°	74.4	*75.5*	75.9	74.0	72.8	69.9	69.5	67.3	66.0	63.0	57.4
150°	59.1	*59.9*	58.6	57.2	56.6	56.8	55.8	54.1	52.9	50.6	48.2
152.5°	40.8	*41.2*	40.8	39.6	39.2	38.6	38.8	37.5	36.7	35.3	33.0
155°	37.1	*37.3*	37.5	35.5	35.1	35.3	35.5	34.7	33.0	31.8	29.1
157.5°	29.1	*28.7*	28.7	28.3	28.5	27.9	27.9	27.7	27.1	26.2	25.4
160°	23.2	*23.4*	23.4	23.4	23.8	23.4	23.4	22.8	22.8	22.4	21.9
162.5°	19.7	*19.7*	19.7	19.7	19.5	19.5	19.9	19.7	19.7	19.9	20.3
165°	16.6	*16.8*	16.8	16.8	16.8	16.8	17.2	17.2	17.6	18.5	19.5
167.5°	15.6	*15.4*	15.4	15.6	15.6	16.0	16.0	16.8	18.3	19.7	19.7
170°	14.8	*14.8*	14.8	15.0	15.0	15.2	15.8	17.2	18.9	19.5	18.7
172.5°	15.4	*15.2*	15.2	15.4	15.4	16.0	16.8	18.0	18.7	18.7	17.8
175°	15.8	*15.6*	15.6	15.8	15.8	16.2	17.0	17.8	18.3	18.5	18.5
177.5°	15.4	*15.4*	15.4	15.4	15.4	15.6	15.6	16.2	16.6	17.0	17.4
180°	14.8	*14.8*	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2.5°	93.7	85.5	73.4	58.6	68.3	80.2	78.5	69.3	55.4	41.6	41.6
5°	51.9	55.0	58.0	50.9	45.5	45.1	43.9	39.4	38.8	32.0	30.1
7.5°	45.3	42.4	41.8	49.4	48.8	32.2	25.4	22.6	23.8	32.2	33.2
10°	54.3	53.1	49.2	41.0	34.2	31.2	31.0	31.4	28.7	23.2	21.7
12.5°	61.3	59.3	55.8	53.3	45.5	36.3	31.2	28.9	30.6	38.8	40.6
15°	68.1	65.2	59.3	52.5	44.7	37.9	32.6	27.9	27.9	26.7	26.0
17.5°	73.4	69.7	62.5	55.2	46.3	37.9	31.0	26.2	24.0	23.6	23.6
20°	80.2	76.7	68.9	59.9	48.8	38.3	30.8	26.2	23.6	22.6	22.4
22.5°	88.6	84.1	74.0	63.4	50.2	38.8	31.2	26.5	23.8	22.4	21.9
25°	96.4	91.3	79.4	68.3	53.5	39.8	31.6	27.1	24.2	22.6	22.4
27.5°	102.7	97.2	86.1	73.4	57.0	42.2	33.6	28.3	24.8	23.2	22.8
30°	109.9	104.8	93.1	78.7	60.3	45.3	36.5	30.6	26.7	24.4	24.2
32.5°	120.6	114.2	100.7	84.3	64.2	48.6	39.4	32.6	27.9	26.7	26.7
35°	139.9	133.3	115.4	93.3	67.9	51.9	42.2	34.9	29.7	26.9	26.7
37.5°	175.9	166.9	144.6	113.8	74.2	54.5	44.7	36.7	30.8	26.7	26.0
40°	192.6	177.2	153.4	124.7	83.5	57.6	46.8	38.1	31.0	27.3	26.9
42.5°	212.2	199.3	165.7	127.3	90.2	65.2	50.2	39.8	32.2	28.1	27.7
45°	231.1	218.6	190.3	150.5	105.4	76.5	56.4	43.1	34.2	29.3	28.5
47.5°	265.3	252.2	212.9	174.3	126.3	94.1	68.7	48.2	37.1	30.6	29.5
50°	354.3	335.7	289.3	230.9	161.6	119.6	88.0	58.9	41.0	31.2	29.9
52.5°	469.2	440.7	390.4	315.8	231.1	169.2	123.2	85.5	47.8	31.4	29.5
55°	655.4	620.3	539.5	430.4	323.6	252.4	186.6	131.4	70.3	32.8	29.3
57.5°	831.9	805.9	735.3	588.9	429.2	320.7	245.5	185.0	95.8	36.1	30.8
60°	961.7	912.1	829.7	679.6	518.4	372.2	273.1	192.3	98.4	36.7	31.8
62.5°	1039.2	977.9	855.7	692.7	531.1	382.8	284.2	177.0	79.6	35.9	33.2
63°	*1045.0*	*985.5*	*859.0*	*688.2*	*527.0*	*380.0*	*282.6*	*173.3*	*77.3*	*35.7*	*33.6*
65°	1037.8	986.1	847.5	664.6	492.1	354.5	263.1	155.6	62.7	35.1	34.0
67.5°	966.5	924.4	787.4	600.8	438.2	306.2	217.8	118.7	49.0	33.4	33.0
70°	809.0	760.8	636.5	496.7	347.4	247.3	173.7	92.1	40.4	31.8	31.4
72.5°	602.1	582.0	483.5	377.9	267.2	190.7	130.4	69.9	35.9	30.6	30.1
75°	486.8	456.7	383.5	298.6	203.2	141.7	96.8	52.5	32.8	29.5	29.1
77.5°	402.5	382.4	319.1	225.4	145.0	102.1	71.2	41.6	31.4	28.9	28.7
80°	311.7	299.2	248.9	166.7	103.8	76.1	56.4	38.1	30.8	28.7	28.5
82.5°	219.8	215.9	181.3	124.7	88.2	68.1	52.5	37.5	31.0	29.1	28.7
85°	182.1	173.7	152.6	118.5	83.7	65.2	50.6	36.9	31.0	28.9	28.7
87.5°	177.4	170.4	147.6	110.9	76.7	60.3	47.6	35.5	29.9	28.1	27.9
90°	160.4	153.4	132.3	99.0	72.2	56.6	44.5	33.6	28.7	27.3	26.9
92.5°	136.8	130.4	114.8	90.0	69.1	54.3	43.3	33.0	28.5	26.9	26.7
95°	118.7	113.4	100.7	82.8	63.8	50.6	41.0	31.8	27.7	26.2	26.0
97.5°	94.5	91.3	81.4	67.5	53.9	44.3	36.7	29.9	26.7	25.4	25.2
100°	83.3	80.4	72.6	61.1	50.0	41.8	35.5	29.3	25.8	24.8	24.6
102.5°	78.1	75.9	68.9	57.4	47.0	39.8	33.8	28.3	25.2	24.2	24.0
105°	74.2	72.2	65.8	54.8	44.3	37.1	31.8	27.1	24.2	23.4	23.2
107.5°	69.5	67.9	61.7	50.9	41.6	34.9	30.1	26.0	23.6	22.8	22.8

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

Scaled Data Report

REPORT NUMBER: P1046253
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	65.6	64.4	58.0	48.6	39.8	33.4	29.1	25.6	23.4	22.6	22.6
112.5°	61.5	60.1	54.1	45.7	38.1	32.4	28.3	25.0	23.0	22.1	22.1
115°	57.0	55.6	49.8	42.4	36.1	30.8	27.1	24.0	22.1	21.5	21.5
117.5°	57.8	54.1	47.2	40.6	34.5	29.5	26.2	23.6	21.5	21.1	20.9
120°	58.6	53.9	48.8	42.7	35.5	28.9	25.6	23.0	21.3	20.7	20.7
122.5°	57.2	57.8	53.3	43.9	33.8	28.3	25.4	23.2	21.5	20.9	21.1
125°	56.0	57.4	52.1	41.4	32.6	28.1	25.4	23.8	22.4	21.7	21.7
127.5°	51.5	51.7	44.3	37.1	31.8	27.5	25.2	24.0	22.8	21.9	21.5
130°	45.3	44.9	41.4	36.1	29.9	26.5	24.4	23.8	22.6	21.1	20.9
132.5°	48.6	47.4	41.6	34.2	28.3	25.4	24.2	23.4	21.3	19.7	19.5
135°	46.1	44.9	39.0	32.0	27.5	25.8	25.2	23.2	20.1	18.9	18.7
137.5°	42.0	40.0	35.1	30.6	27.9	26.9	25.4	22.8	19.7	18.3	18.0
140°	40.4	38.3	34.5	31.4	28.3	25.0	22.6	20.1	18.0	16.8	16.6
142.5°	42.4	40.8	36.9	31.4	26.5	23.0	20.7	19.1	17.2	15.4	15.2
145°	49.4	46.3	41.0	35.3	30.1	26.0	22.6	19.1	15.8	13.7	13.5
147.5°	54.8	52.3	46.5	40.0	32.8	26.2	21.1	16.8	14.1	12.9	12.7
150°	45.5	44.1	39.8	34.5	29.1	23.2	18.3	15.0	13.3	12.9	12.9
152.5°	31.8	30.8	29.3	25.8	21.7	18.3	15.6	13.9	13.3	13.1	13.1
155°	28.1	27.5	25.6	22.6	19.7	17.0	15.0	13.7	13.5	13.3	13.3
157.5°	24.2	24.0	22.8	20.3	18.0	16.0	14.6	13.9	13.5	13.3	13.3
160°	21.7	21.1	19.9	18.3	16.8	15.6	14.8	14.4	13.9	13.7	13.7
162.5°	20.3	19.9	18.5	17.2	16.4	16.2	16.4	16.2	15.2	14.6	14.4
165°	19.3	19.1	17.6	16.8	16.4	17.4	18.7	18.3	16.4	15.4	15.4
167.5°	19.3	18.9	17.4	16.8	17.8	19.3	20.3	20.1	18.5	17.4	16.8
170°	18.3	17.8	17.4	17.6	19.1	19.7	19.9	20.3	20.5	21.5	21.9
172.5°	17.6	17.6	18.0	18.9	20.1	20.3	19.7	19.9	21.7	24.0	24.2
175°	18.5	18.5	19.3	20.7	21.3	21.7	20.9	21.1	23.2	25.4	25.6
177.5°	17.6	17.8	18.3	18.5	18.3	17.6	17.4	18.3	17.6	17.4	18.0
180°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8

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

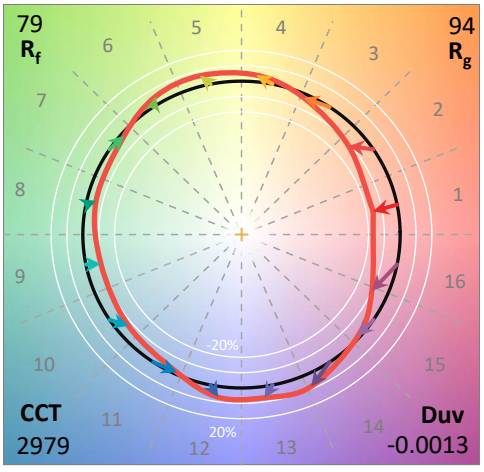
Test Information

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

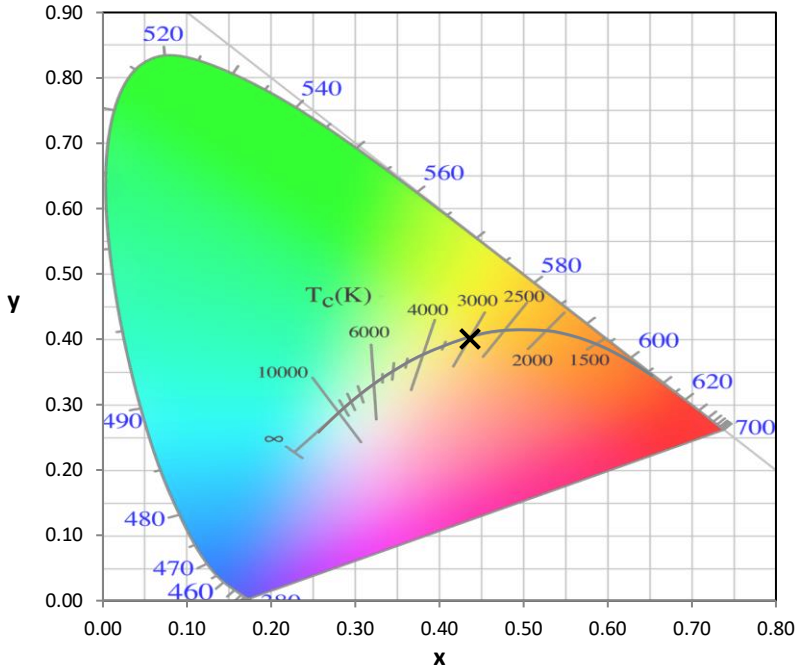
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

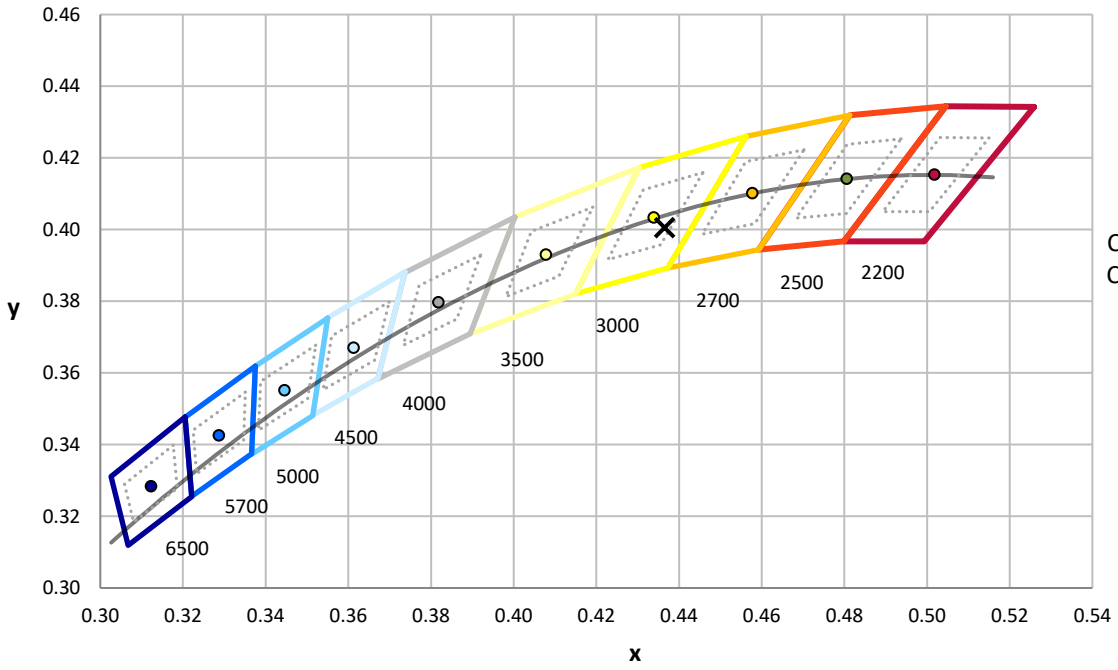
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

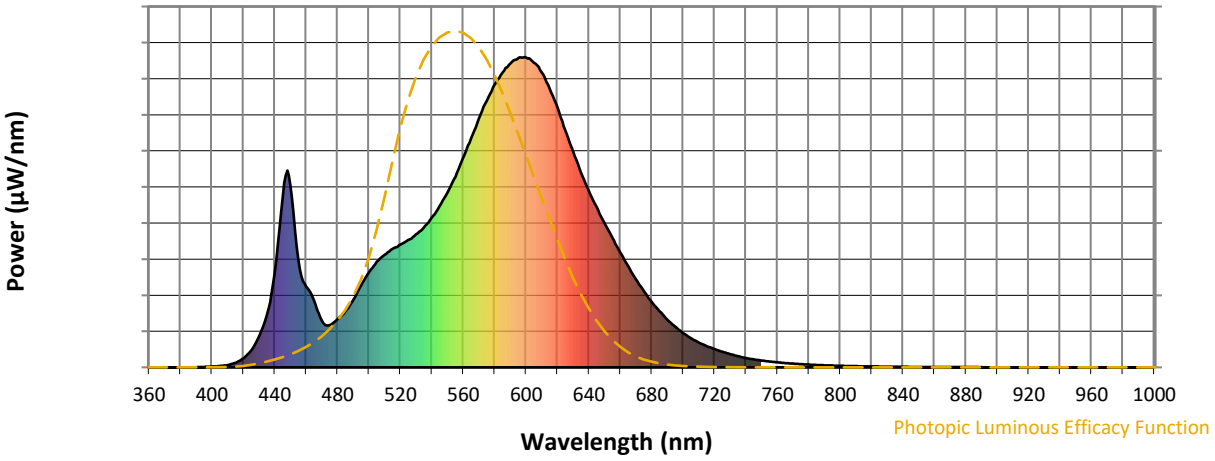


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

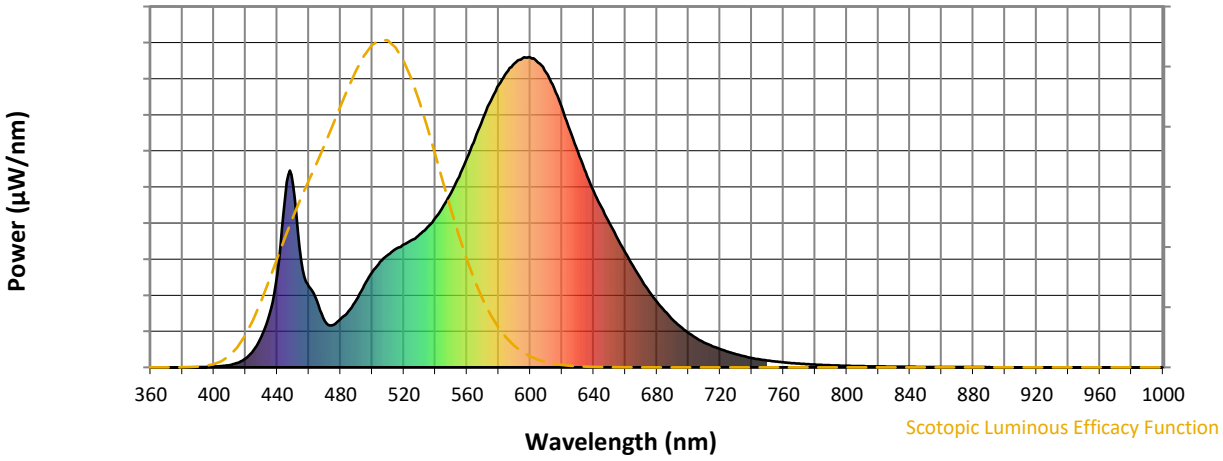


Photopic Lumens: NR

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

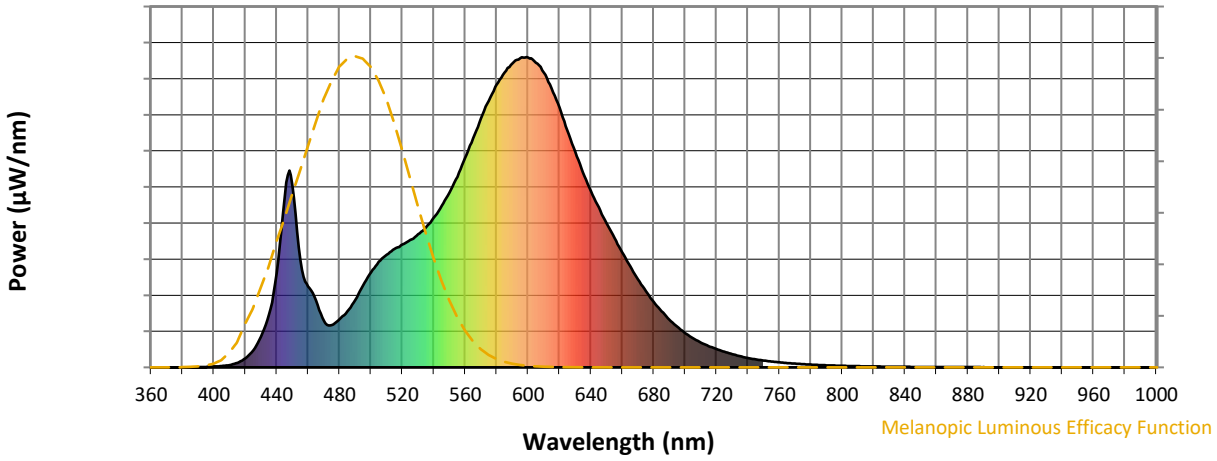


Scotopic Lumens: NR **S/P: 1.29**

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			

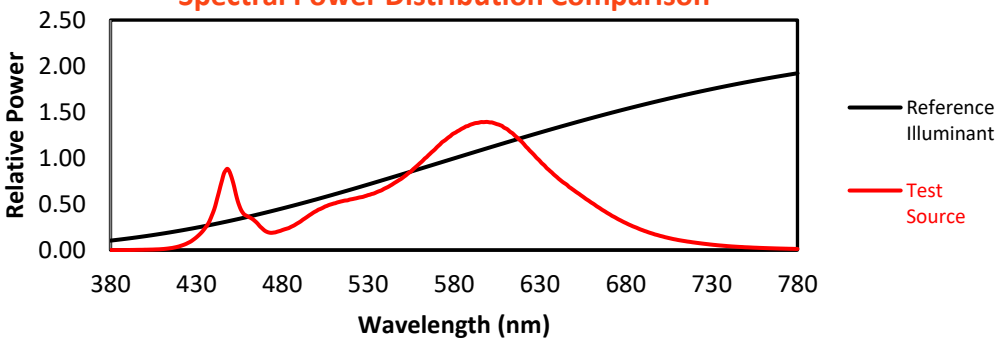
REPORT NUMBER: SP1-2501-332-9

TM-30-18

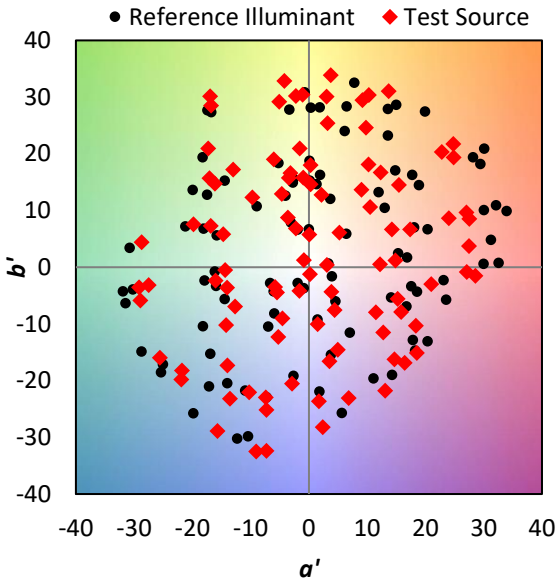
Summary

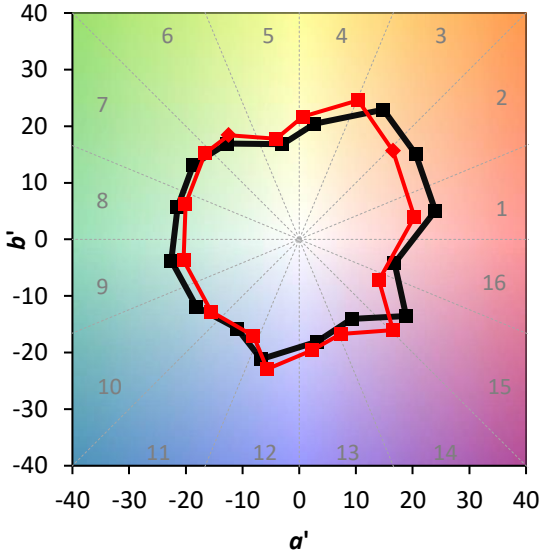
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

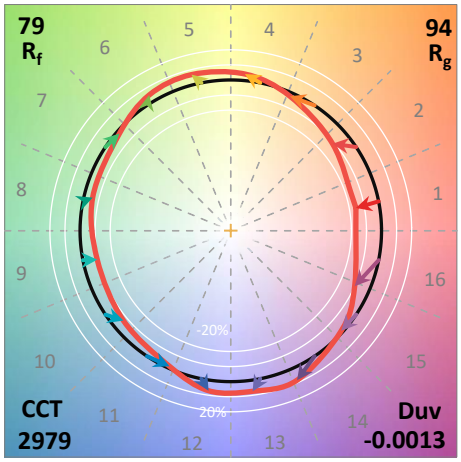
Spectral Power Distribution Comparison

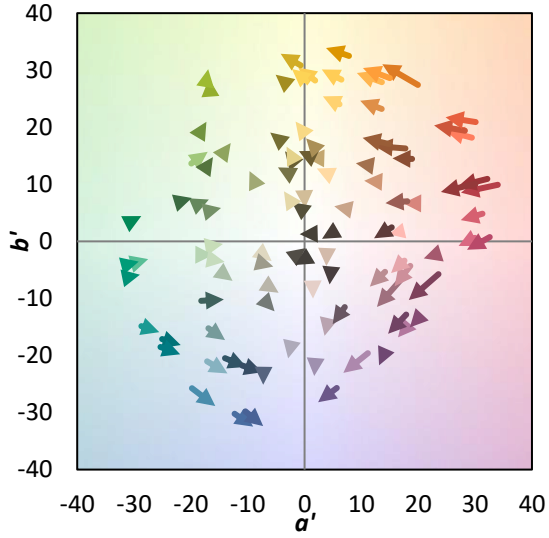


Color Vector Graphics







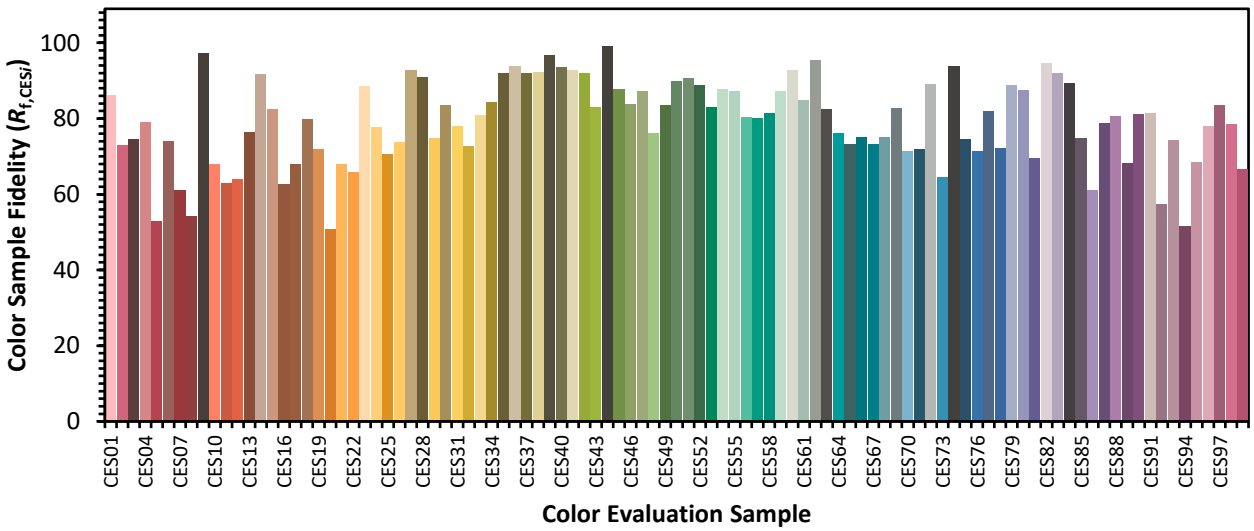


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

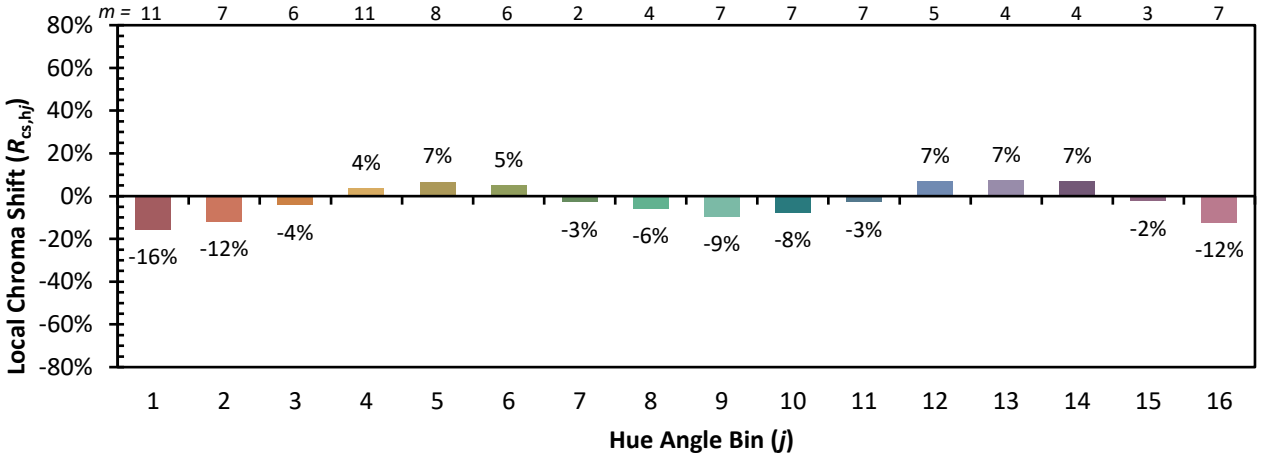
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57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

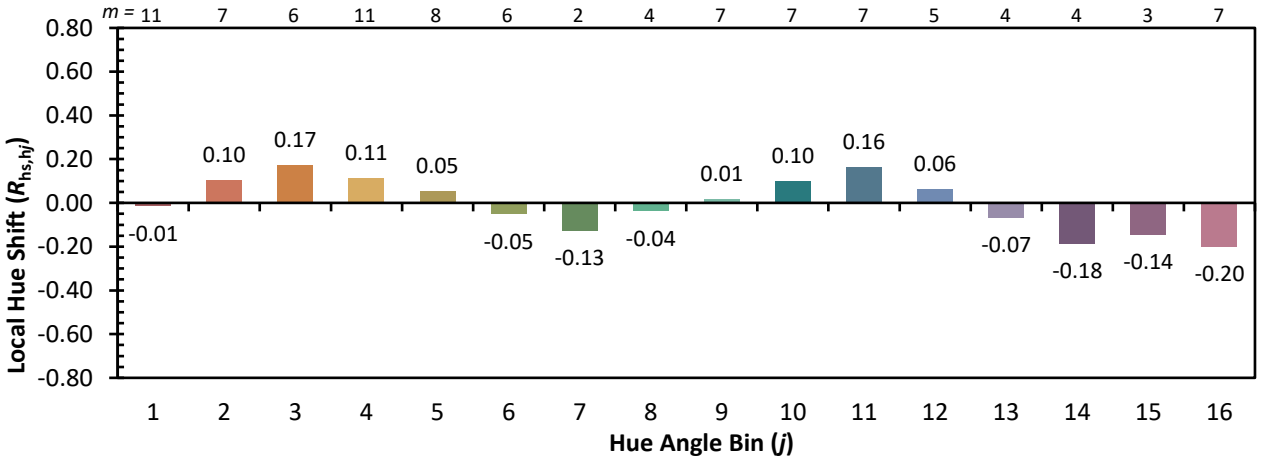


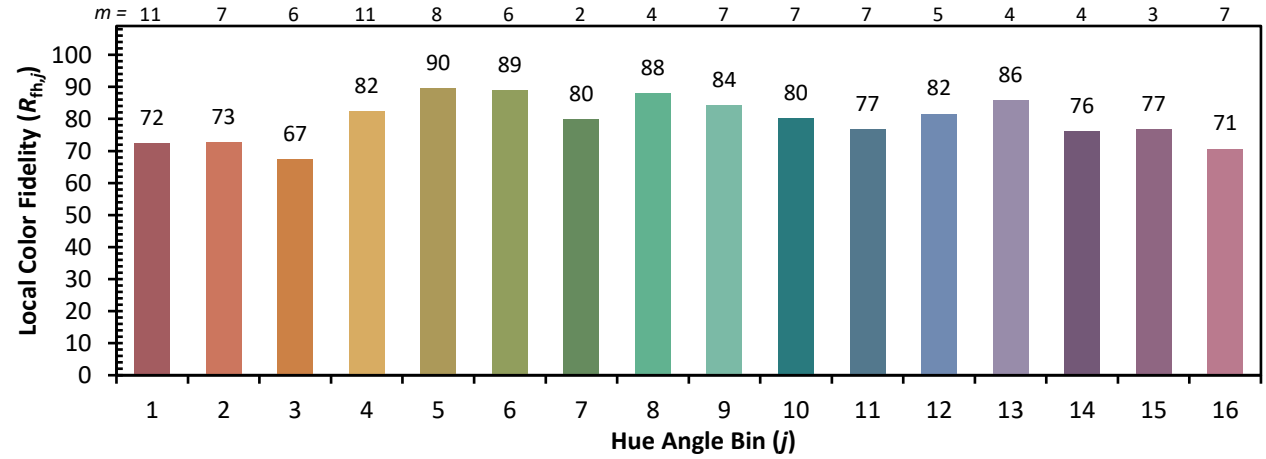
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Color Rendition by Hue-Angle Bin



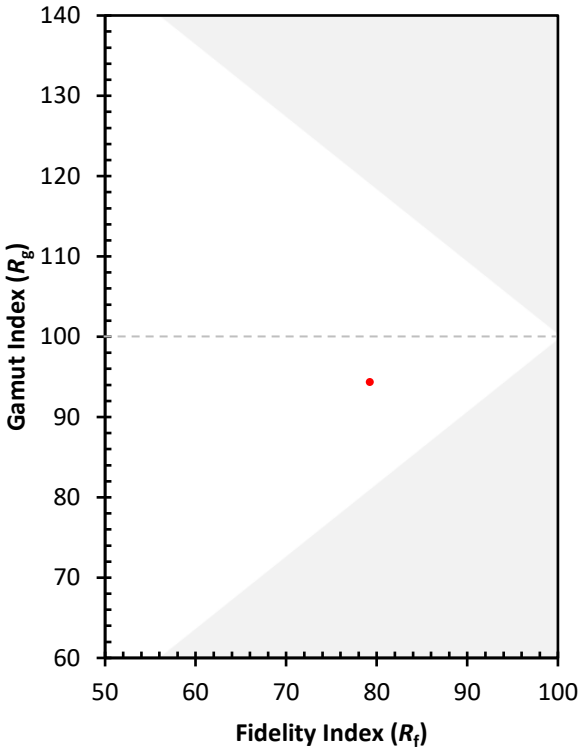


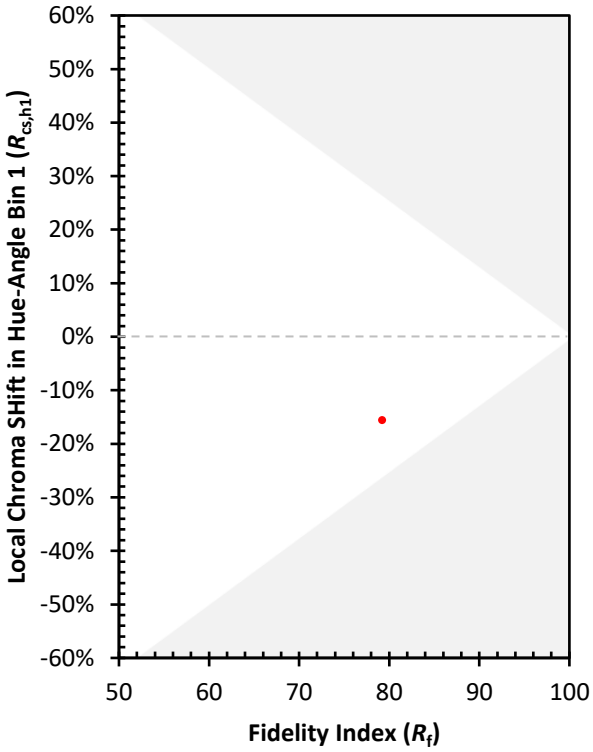


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Measure Comparisons





(END OF REPORT)