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: P1046388

Luminaire Tested: **FFX-CLB-20-730-U-FR-T4**

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:	P1046388
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
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3223.6 lumens
Efficiency:	N/A
Efficacy:	162.8 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

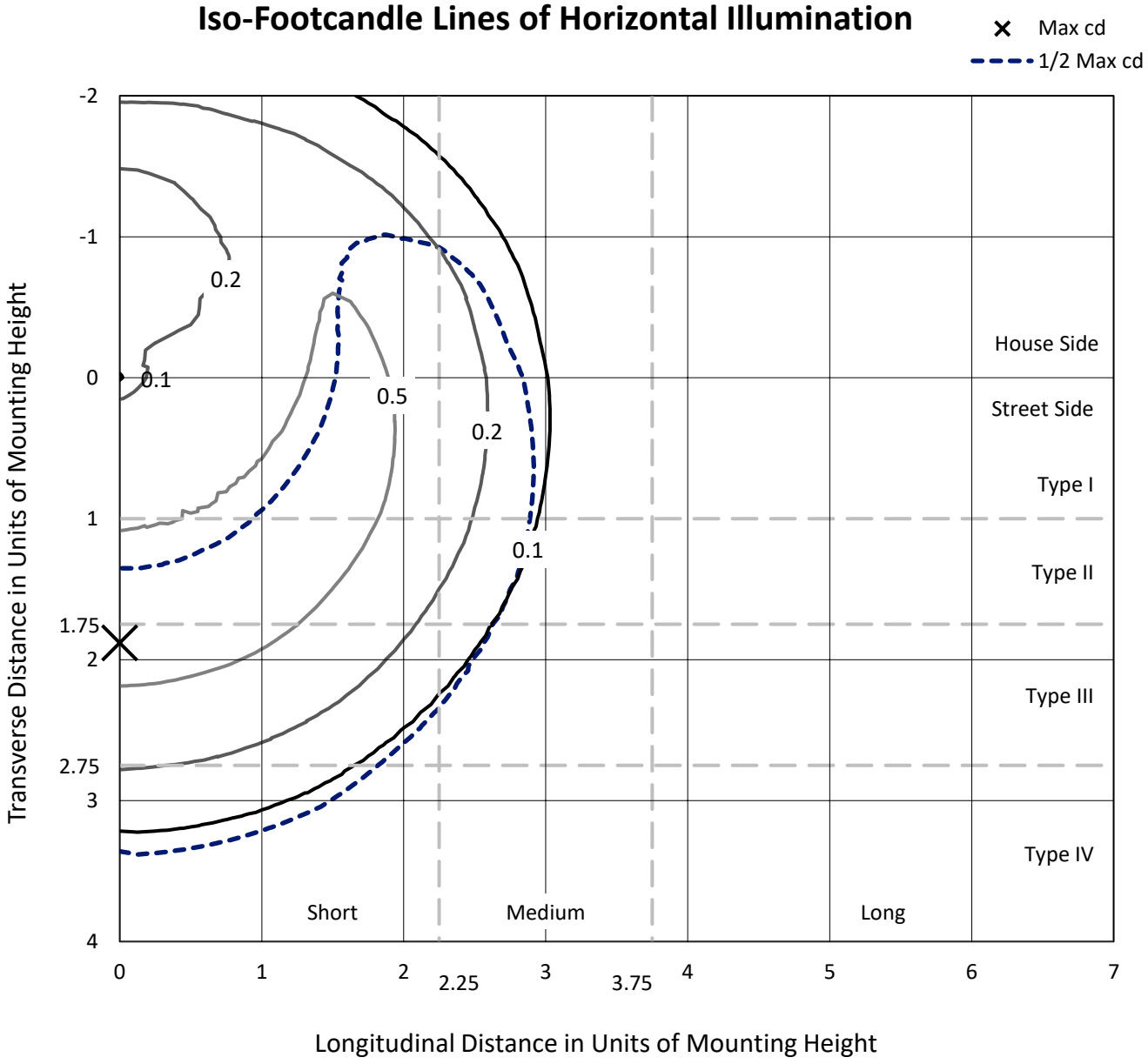


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Iso-Footcandle Lines of Horizontal Illumination



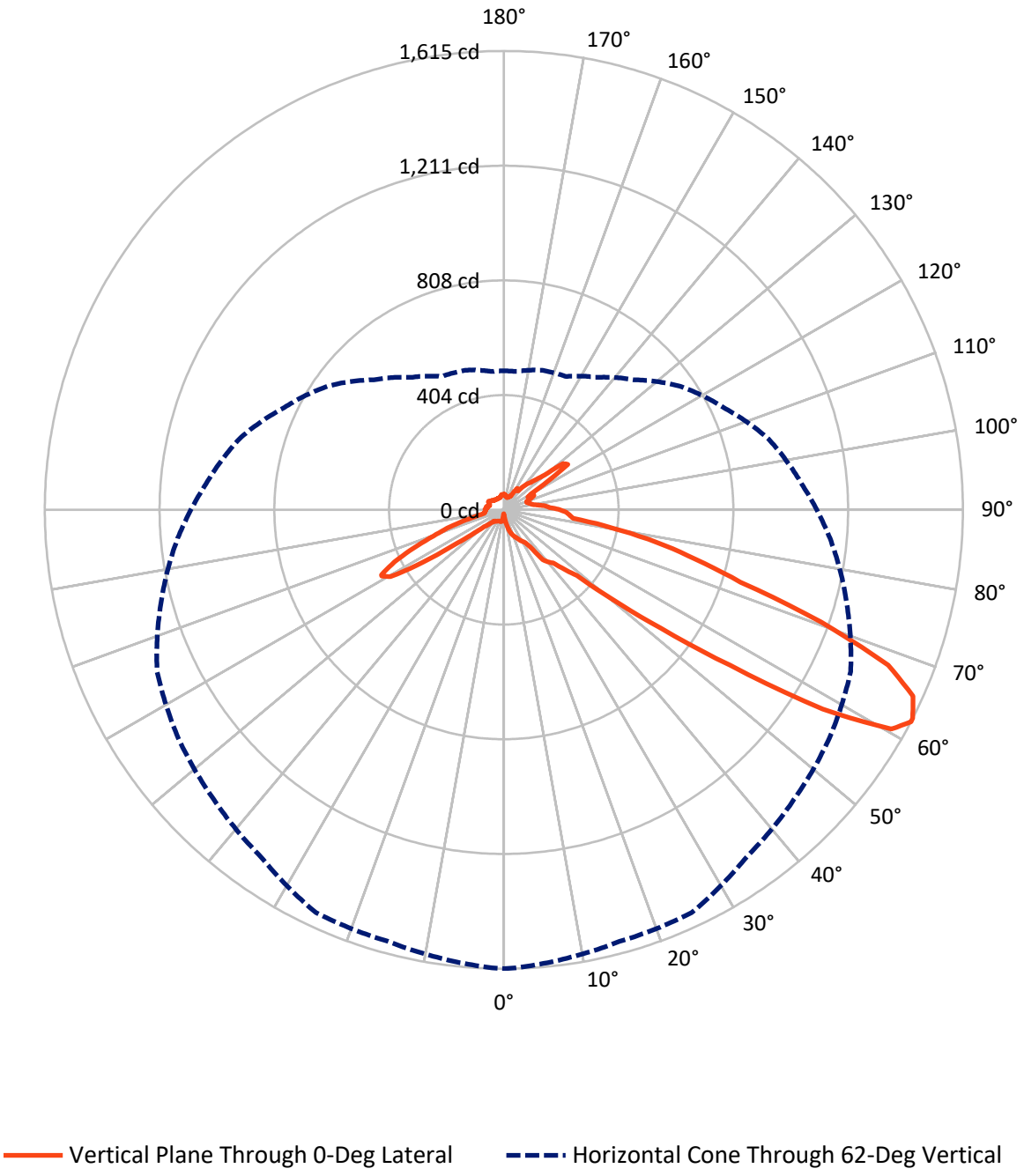
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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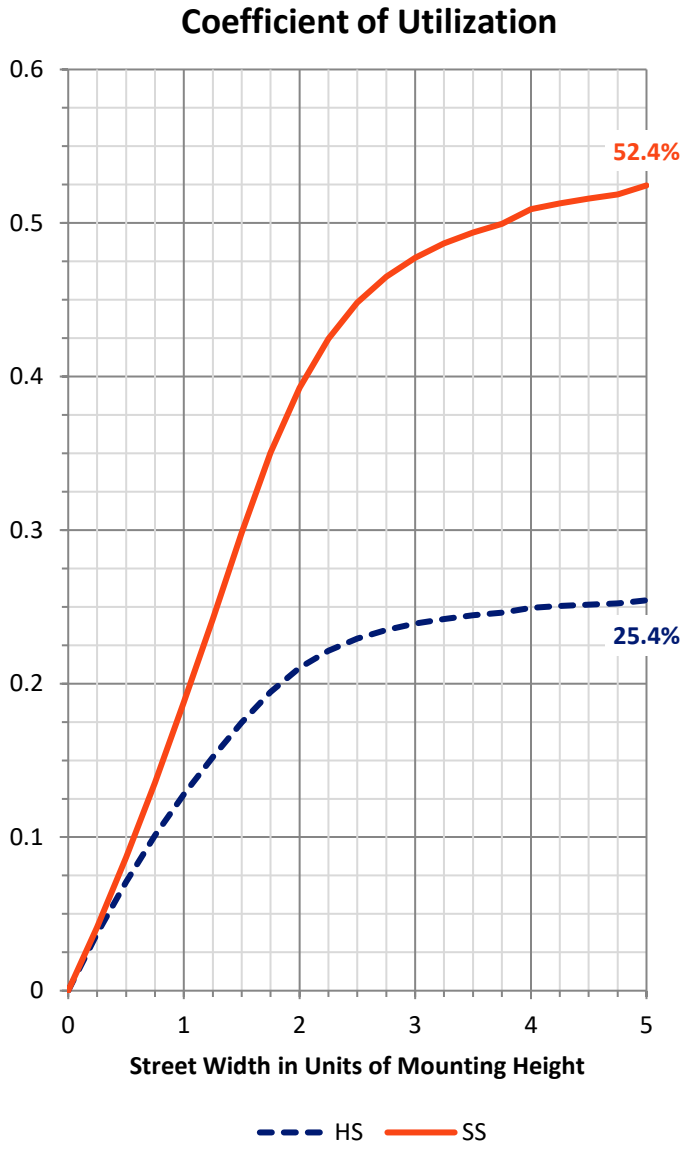
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	848.2	242.3	1090.5
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	1760.8	372.2	2133.0
	% Fixture	54.6	11.5	66.2
Total	Lumens	2609.0	614.6	3223.6
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.1
10°-20°	17.9	0.6
20°-30°	38.7	1.2
30°-40°	77.5	2.4
40°-50°	169.8	5.3
50°-60°	594.5	18.4
60°-70°	994.9	30.9
70°-80°	516.4	16.0
80°-90°	196.1	6.1
90°-100°	125.1	3.9
100°-110°	82.9	2.6
110°-120°	86.6	2.7
120°-130°	144.7	4.5
130°-140°	87.1	2.7
140°-150°	46.0	1.4
150°-160°	24.2	0.8
160°-170°	13.1	0.4
170°-180°	4.9	0.2
0°-90°	2609.0	80.9
0°-180°	3223.6	100.0



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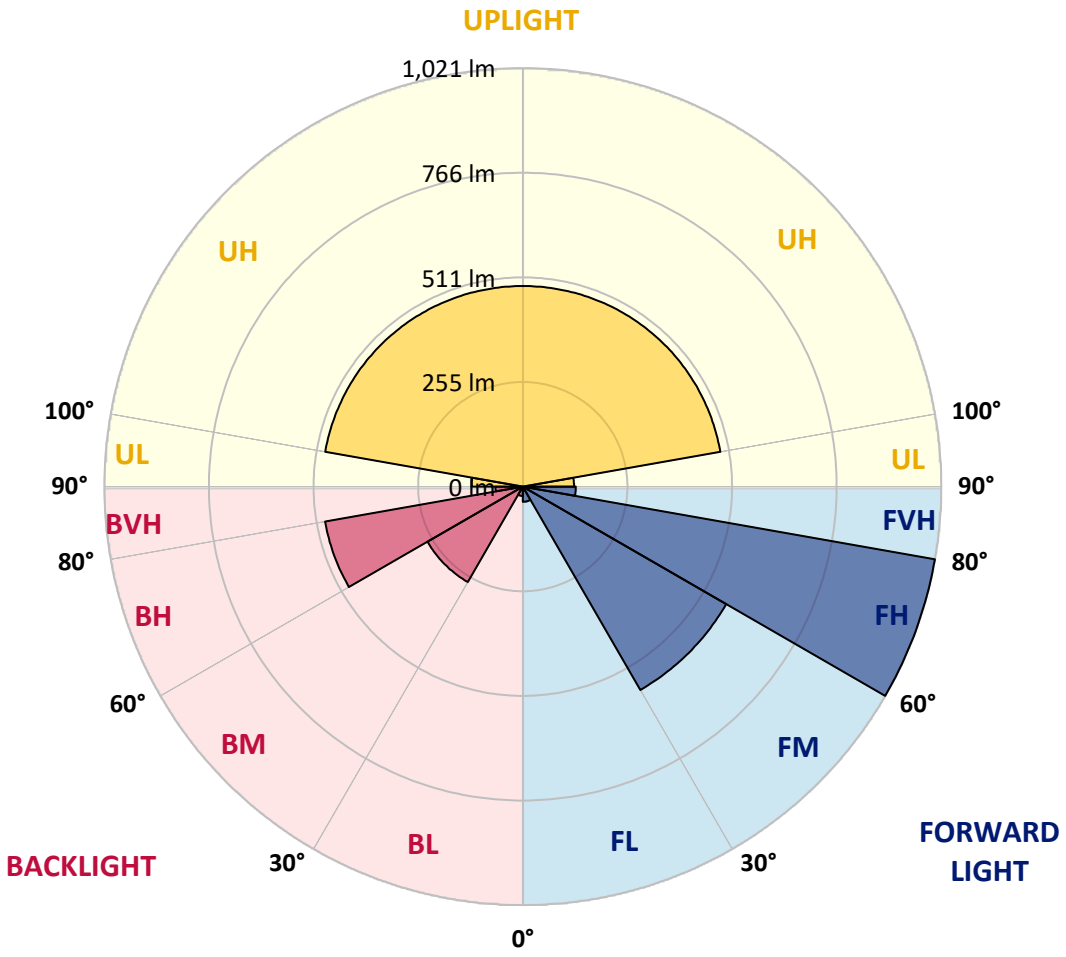
Scaled Data Report

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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°)	37.1	1.2			
FM	(30°-60°)	573.1	17.8			
FH	(60°-80°)	1021.2	31.7			G1/1800
FVH	(80°-90°)	129.4	4.0			G2/225
BL	(0°-30°)	22.7	0.7	B0/110		
BM	(30°-60°)	268.6	8.3	B1/1000		
BH	(60°-80°)	490.0	15.2	B1/500		G1/500
BVH	(80°-90°)	66.8	2.1			G1/100
UL	(90°-100°)	125.1	3.9		U3/500	
UH	(100°-180°)	489.5	15.2		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°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	20.3	19.9	19.9	20.7	21.7	21.7	21.9	21.3	21.3	21.1	21.3
5°	29.5	28.7	29.1	29.3	29.7	30.1	30.6	30.6	29.7	29.1	27.5
7.5°	41.2	41.0	41.4	41.2	40.8	41.8	42.4	43.9	44.3	41.6	38.3
10°	53.1	52.5	52.3	52.5	52.7	52.1	53.3	54.3	52.9	49.8	47.0
12.5°	66.0	66.0	66.0	65.8	65.8	65.6	65.2	65.0	63.6	60.1	55.6
15°	80.4	80.6	81.0	80.8	79.8	78.1	76.9	75.9	75.1	72.6	66.9
17.5°	89.2	88.8	89.2	89.0	88.6	87.6	85.3	83.3	80.6	77.1	72.8
20°	97.4	97.2	97.0	97.0	96.6	95.4	93.9	90.6	87.2	83.5	78.5
22.5°	103.8	103.4	103.8	103.6	103.4	102.9	100.5	97.6	93.7	89.6	84.5
25°	112.0	111.8	112.0	111.3	111.3	110.7	109.3	105.6	101.3	96.8	90.4
27.5°	121.0	120.4	121.0	120.8	120.0	118.3	117.1	113.0	107.7	103.4	97.6
30°	128.6	128.6	129.0	127.8	128.6	127.1	124.3	119.8	115.2	109.7	103.8
32.5°	136.6	136.6	136.2	136.0	137.0	135.1	131.9	126.5	122.8	117.1	112.0
35°	158.9	157.3	159.9	159.7	164.9	161.2	155.0	147.8	142.1	134.7	128.0
37.5°	223.1	222.3	221.1	213.3	204.2	205.7	206.7	198.7	191.5	178.2	162.4
40°	241.4	241.2	240.9	236.4	238.9	232.3	229.1	225.0	223.7	206.3	185.2
42.5°	256.3	253.9	256.3	264.5	277.4	272.9	256.3	235.0	231.1	214.5	205.9
45°	296.9	295.3	299.4	301.9	297.7	290.4	295.1	279.5	268.8	245.3	229.5
47.5°	345.5	343.9	347.8	349.8	358.2	350.5	346.8	333.4	315.6	293.2	272.7
50°	490.5	472.1	487.0	481.9	483.9	466.5	473.5	454.4	438.4	401.7	364.6
52.5°	692.5	686.3	676.1	664.6	673.4	654.8	660.5	639.8	610.9	568.2	513.5
55°	965.8	945.1	951.7	975.3	970.4	936.9	931.2	880.7	828.9	765.1	707.5
57.5°	1323.5	1313.2	1301.3	1285.5	1270.2	1235.5	1218.5	1162.1	1081.5	992.5	912.3
60°	1566.9	1558.7	1553.3	1505.2	1476.9	1407.1	1391.3	1352.2	1280.4	1183.6	1073.1
62°	1615.3	1614.0	1603.2	1573.2	1564.8	1491.0	1443.0	1399.3	1346.6	1248.4	1152.2
62.5°	1614.9	1612.4	1606.0	1581.0	1572.4	1503.3	1451.2	1404.9	1352.4	1256.0	1161.5
65°	1582.1	1576.5	1573.6	1558.7	1554.8	1514.2	1445.1	1397.3	1353.2	1247.0	1168.2
67.5°	1458.6	1465.2	1465.6	1450.6	1437.7	1413.5	1347.5	1306.0	1275.7	1165.0	1090.7
70°	1184.0	1175.2	1166.2	1173.2	1167.4	1154.3	1101.8	1049.7	1011.8	953.7	883.4
72.5°	870.3	884.2	884.0	886.1	887.1	854.1	830.7	800.8	780.3	730.0	679.8
75°	697.6	698.9	695.0	680.6	665.2	646.2	650.3	647.6	637.7	584.6	534.8
77.5°	550.8	537.3	542.8	520.2	500.4	500.1	508.1	515.9	520.2	477.6	439.0
80°	387.8	384.7	379.8	381.8	365.4	369.7	373.6	379.0	370.5	345.3	327.5
82.5°	244.8	242.2	238.3	257.1	272.9	269.5	256.9	236.8	232.1	234.0	229.9
85°	231.5	231.3	227.8	226.0	223.5	218.0	221.1	225.4	222.9	209.0	190.9
87.5°	218.6	218.0	215.3	214.3	209.6	209.0	211.8	213.5	214.5	202.0	186.8
90°	191.5	189.1	186.6	188.7	188.0	188.5	189.3	188.9	189.3	174.5	168.2
92.5°	159.7	159.1	157.3	158.3	159.7	165.5	163.0	159.1	158.5	152.6	146.4
95°	145.8	146.2	144.0	145.4	145.8	145.8	144.2	142.3	140.9	136.2	130.6
97.5°	120.8	118.9	118.1	119.1	119.6	118.1	117.1	114.0	113.8	109.1	106.4
100°	102.7	102.3	101.9	103.1	103.6	102.9	103.1	101.3	101.1	98.4	95.6
102.5°	96.0	95.8	95.6	96.6	97.0	96.6	96.0	94.1	94.5	91.7	89.6
105°	90.6	90.6	90.4	91.0	89.8	89.2	88.4	88.4	88.8	86.5	83.5
107.5°	84.7	84.5	84.7	84.5	83.1	82.4	82.2	81.6	83.1	81.8	78.5

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*85.7*	85.7	85.5	83.3	82.4	81.4	81.0	82.0	81.6	79.6	77.5
112.5°	*105.0*	103.8	104.6	101.5	100.1	100.9	101.3	102.1	103.8	100.5	97.4
115°	*117.3*	117.5	119.6	119.6	116.5	117.9	117.9	117.7	119.3	116.9	113.8
117.5°	*95.8*	97.0	103.6	99.5	100.5	101.3	96.2	94.3	93.9	94.5	101.1
120°	*110.3*	108.7	114.8	101.9	98.0	98.0	101.7	106.4	101.3	93.5	95.6
122.5°	*180.5*	180.7	180.9	186.4	185.8	187.4	184.6	180.9	170.2	170.4	160.8
125°	*276.2*	273.6	273.6	271.1	270.7	266.8	271.7	274.8	266.6	252.6	237.5
127.5°	*264.3*	270.1	268.0	261.9	255.9	253.9	259.6	269.2	264.5	252.2	238.3
130°	*187.6*	189.1	188.7	195.2	196.9	194.8	196.9	189.9	190.9	193.8	186.4
132.5°	*157.3*	156.5	159.3	168.4	171.8	167.7	162.0	156.9	157.1	163.2	162.8
135°	*135.5*	134.9	137.0	137.4	141.3	138.0	132.9	132.9	134.1	135.5	134.9
137.5°	*122.4*	121.6	122.2	117.5	112.8	112.6	116.7	118.9	117.7	116.3	114.6
140°	*105.4*	105.8	104.8	100.9	98.8	99.2	101.9	105.4	104.4	101.3	98.8
142.5°	*83.9*	83.1	84.3	87.2	91.3	91.3	87.2	82.8	82.6	84.1	86.1
145°	*82.6*	82.2	82.4	81.8	82.6	81.8	80.6	79.4	77.9	76.9	76.1
147.5°	*89.6*	89.6	89.4	88.4	87.6	86.1	86.5	88.0	88.8	88.0	86.7
150°	*72.8*	73.4	73.4	73.2	72.4	73.0	73.8	74.2	75.1	75.1	73.8
152.5°	*56.0*	55.8	56.4	55.6	55.4	55.8	56.8	57.6	57.8	57.8	56.2
155°	*53.3*	52.9	53.3	52.9	52.5	52.9	53.7	54.1	54.5	53.9	52.3
157.5°	*49.8*	49.8	49.8	49.4	49.6	49.6	50.0	50.2	50.4	50.2	49.8
160°	*47.2*	47.2	47.4	47.2	47.2	47.6	47.4	47.2	47.2	47.0	46.8
162.5°	*45.5*	45.5	45.5	45.5	45.3	45.3	45.5	45.3	45.1	44.9	45.3
165°	*44.7*	44.5	44.5	44.5	44.7	44.5	44.5	44.5	44.3	44.9	45.7
167.5°	*46.3*	45.9	46.1	46.3	46.3	46.1	46.1	46.1	46.5	47.2	47.8
170°	*48.6*	48.4	48.4	48.6	48.6	48.4	48.4	48.4	48.6	48.8	49.0
172.5°	*50.4*	50.2	50.2	50.2	50.0	49.8	49.8	49.8	49.8	49.8	50.0
175°	*52.3*	52.3	52.3	52.3	52.1	51.9	51.9	51.9	51.9	51.9	51.9
177.5°	*54.3*	54.1	54.3	54.1	54.1	54.1	53.9	53.7	53.5	53.5	53.5
180°	*53.9*	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	20.9	20.7	19.5	18.5	17.6	16.8	15.6	14.6	13.7	13.5	13.5
5°	27.1	26.7	25.4	23.8	23.0	21.7	20.5	19.7	18.7	18.3	18.5
7.5°	37.3	37.5	37.9	38.8	38.3	34.9	31.0	30.1	31.0	32.2	32.8
10°	46.3	45.7	45.5	48.2	47.6	42.4	37.3	35.7	37.1	39.8	41.0
12.5°	53.7	52.5	52.3	52.7	50.2	44.7	40.4	38.6	39.4	41.4	41.2
15°	64.6	62.7	60.1	58.4	55.4	51.5	46.1	43.1	43.1	43.1	42.9
17.5°	71.0	68.9	63.8	59.1	55.2	52.3	48.8	45.9	42.9	42.4	42.2
20°	76.5	73.4	67.9	62.7	57.8	53.7	48.8	45.3	42.7	42.2	42.0
22.5°	81.2	78.3	72.4	66.2	60.1	55.4	50.0	46.3	43.7	42.9	42.7
25°	87.6	84.5	77.7	70.5	63.4	57.4	52.5	48.2	44.9	43.3	43.3
27.5°	93.9	90.4	82.8	75.5	67.7	60.3	54.8	50.4	46.3	44.1	43.9
30°	100.1	96.2	88.0	79.6	71.8	64.0	57.6	52.7	48.2	45.7	45.5
32.5°	108.7	104.2	94.5	84.1	76.3	67.9	60.7	55.0	50.2	47.8	47.4
35°	125.5	120.4	109.5	96.0	83.7	72.4	63.8	56.2	51.7	49.0	48.8
37.5°	156.7	150.7	135.5	118.9	102.1	85.1	69.3	57.8	52.7	50.2	49.8
40°	175.3	163.6	147.6	134.5	121.8	105.4	85.1	67.1	54.8	51.9	51.5
42.5°	199.5	187.4	164.3	139.2	123.0	110.1	95.8	84.1	66.4	56.2	54.3
45°	222.5	213.3	193.4	166.7	142.1	119.8	101.9	90.6	79.4	67.7	65.8
47.5°	261.0	247.5	221.3	194.0	169.0	144.0	122.8	100.9	86.3	79.4	78.9
50°	359.9	335.3	297.3	264.7	217.6	179.2	154.2	124.9	106.2	95.4	91.9
52.5°	487.6	462.0	418.7	371.6	319.3	269.9	220.9	178.8	148.5	129.4	130.0
55°	677.9	652.3	588.7	507.9	436.2	384.7	332.2	281.1	232.3	204.2	200.8
57.5°	878.7	855.7	801.4	702.7	588.5	493.4	431.0	394.9	369.9	339.4	339.4
60°	1025.9	987.8	926.3	826.8	725.5	600.4	520.4	468.8	464.3	458.9	463.0
62°	*1101.2*	*1052.0*	*964.2*	*852.4*	*758.3*	*647.0*	*569.3*	*518.0*	*509.0*	*488.9*	*489.3*
62.5°	1113.9	1059.6	970.6	852.4	761.2	651.1	574.6	524.5	512.0	487.4	487.8
65°	1126.6	1061.2	975.3	838.7	745.0	636.9	578.1	512.9	480.1	438.8	426.7
67.5°	1053.6	986.6	912.9	779.9	682.4	578.1	512.9	447.4	393.9	352.1	345.5
70°	855.7	803.0	746.2	644.5	559.4	474.9	419.6	360.5	307.2	261.0	263.9
72.5°	649.4	600.2	548.1	483.5	430.6	373.8	324.8	277.2	233.0	204.2	209.6
75°	503.0	470.2	433.3	386.3	346.1	293.6	237.9	195.6	165.7	148.3	149.3
77.5°	413.6	379.6	349.4	306.4	268.2	214.5	160.8	124.7	107.2	99.5	97.4
80°	318.1	293.2	266.6	228.0	186.0	144.6	108.1	91.3	79.8	74.0	71.8
82.5°	222.1	206.7	184.4	156.5	132.3	117.1	101.3	87.2	75.3	69.9	67.5
85°	182.9	174.7	162.4	146.6	132.3	115.4	97.8	83.5	73.2	69.1	66.9
87.5°	178.2	172.7	158.7	141.9	124.7	107.5	89.6	76.3	69.7	67.1	65.0
90°	163.4	157.1	147.2	130.6	115.2	96.8	82.2	74.2	69.3	66.2	64.0
92.5°	142.5	139.0	130.0	118.1	107.5	95.6	85.1	77.9	72.8	69.1	66.9
95°	126.7	122.6	117.5	107.9	99.0	89.4	79.8	73.0	67.7	63.8	61.9
97.5°	104.2	101.3	96.4	90.0	83.5	75.7	68.9	64.4	60.9	59.1	57.8
100°	94.5	92.7	89.8	85.3	80.0	74.4	69.5	67.1	65.6	64.4	63.8
102.5°	87.6	85.5	83.3	78.5	74.4	69.5	66.2	64.2	62.3	60.3	59.9
105°	81.4	79.8	76.7	72.8	68.7	64.0	60.1	58.9	57.2	55.4	55.2
107.5°	76.7	75.1	72.4	68.3	64.6	60.5	57.0	55.2	53.3	52.3	52.1

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

Scaled Data Report

REPORT NUMBER: P1046388
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	76.3	75.1	72.2	68.7	65.8	61.7	57.8	57.2	55.2	52.7	52.5
112.5°	95.1	91.3	85.7	80.0	75.1	71.0	66.0	61.1	57.0	54.5	54.1
115°	110.3	106.4	99.7	91.3	83.5	74.6	66.2	60.1	57.8	57.2	58.0
117.5°	103.8	95.6	84.1	78.9	72.2	67.5	64.2	62.7	59.1	60.1	61.1
120°	99.7	94.1	84.1	83.3	80.2	74.8	67.3	65.6	63.6	61.9	61.7
122.5°	160.2	154.8	143.3	125.9	107.0	94.3	89.6	79.8	67.9	58.9	57.4
125°	227.0	218.4	195.8	176.6	151.5	124.7	100.5	79.8	63.6	55.0	53.9
127.5°	231.5	221.9	202.2	176.1	144.4	111.6	86.5	71.6	60.7	55.0	53.9
130°	180.5	174.3	159.7	135.3	113.4	93.9	79.8	67.7	57.8	53.5	52.9
132.5°	159.5	154.0	133.3	113.0	98.4	83.5	71.6	60.1	51.7	48.8	48.4
135°	131.9	125.7	112.0	99.5	88.8	76.7	64.8	55.0	49.0	47.6	47.4
137.5°	112.6	109.7	99.5	90.6	81.0	70.5	60.7	53.1	49.4	48.2	48.0
140°	97.2	96.6	90.2	82.4	72.8	61.7	54.1	49.6	48.2	47.6	47.4
142.5°	85.9	85.1	78.1	69.1	60.5	54.8	51.9	50.4	49.2	47.6	47.2
145°	74.4	73.0	68.7	64.8	62.1	60.3	57.6	53.1	48.4	45.9	45.7
147.5°	84.7	82.2	77.5	72.0	66.2	60.3	54.8	50.0	46.1	44.7	44.5
150°	71.2	71.0	67.9	63.6	59.3	53.9	49.8	46.8	45.1	44.9	44.9
152.5°	55.2	55.2	55.2	54.1	52.1	49.2	46.1	44.3	44.3	45.1	45.3
155°	51.9	52.1	52.3	51.9	50.2	47.6	44.9	44.1	44.3	45.1	45.3
157.5°	49.4	49.4	49.6	49.2	48.4	46.5	44.7	43.9	44.1	44.5	44.7
160°	46.5	46.5	46.8	46.8	45.9	45.3	44.5	43.9	43.9	44.1	44.3
162.5°	45.5	45.5	45.5	45.5	45.3	45.3	45.3	45.3	45.1	45.1	45.1
165°	45.9	45.9	45.3	45.1	45.5	46.1	47.2	47.4	46.3	46.1	46.1
167.5°	48.0	48.0	47.4	47.0	47.6	48.2	49.6	50.0	49.2	48.4	48.4
170°	49.2	49.2	49.2	49.4	49.6	50.2	51.1	51.5	51.3	51.1	51.1
172.5°	50.0	50.0	50.4	50.9	51.5	51.9	52.3	52.7	53.1	53.1	53.3
175°	51.7	51.9	52.3	52.5	52.9	53.3	53.7	54.1	54.3	54.3	54.3
177.5°	53.3	53.3	53.3	53.5	53.7	53.9	54.1	54.3	54.3	54.5	54.8
180°	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9

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

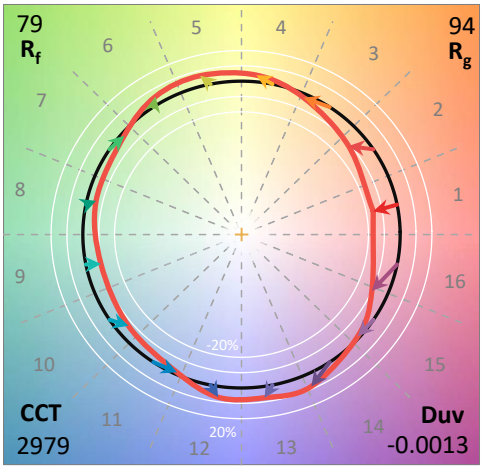
Test Information

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

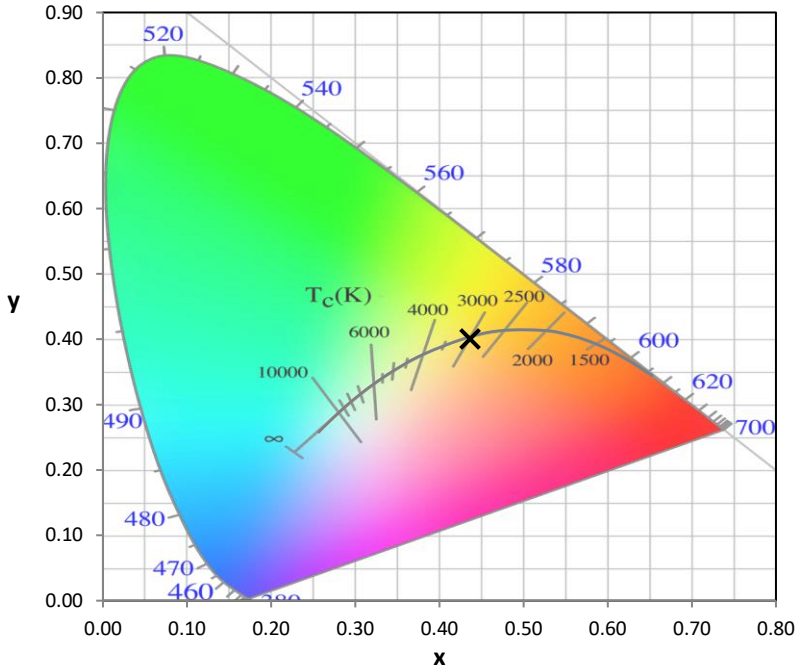
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

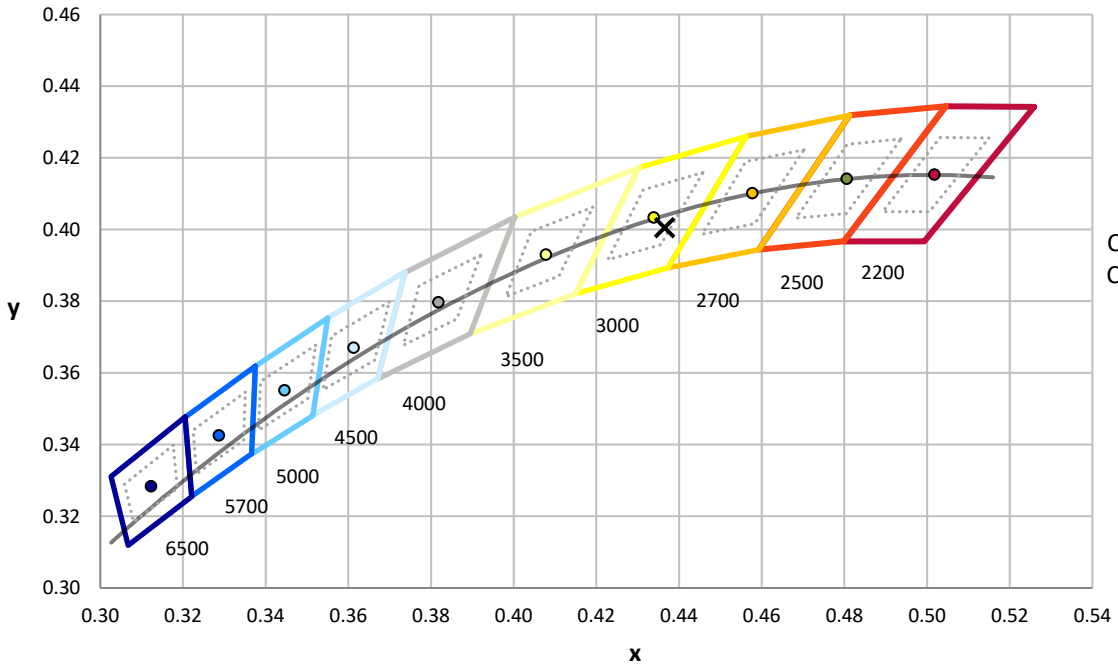
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

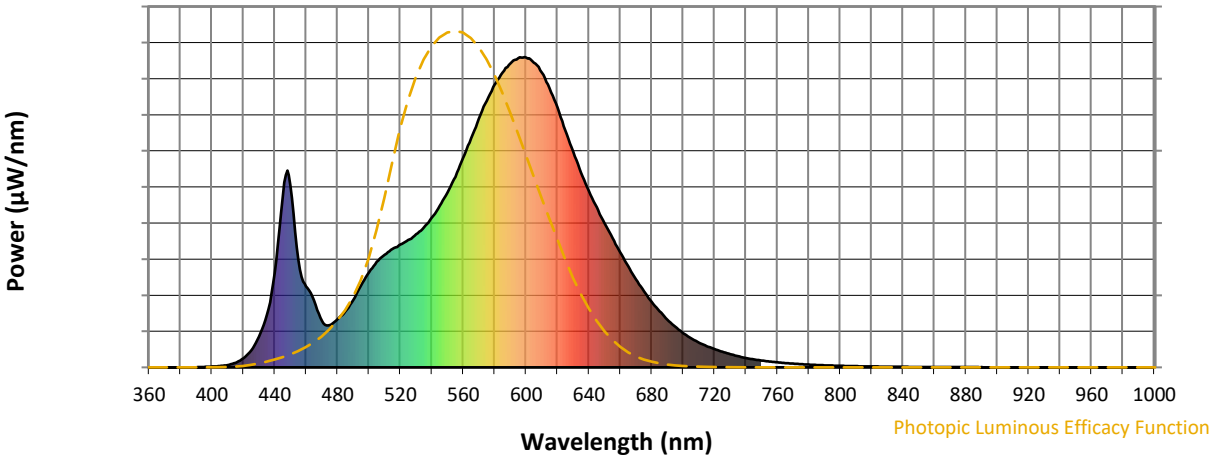


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

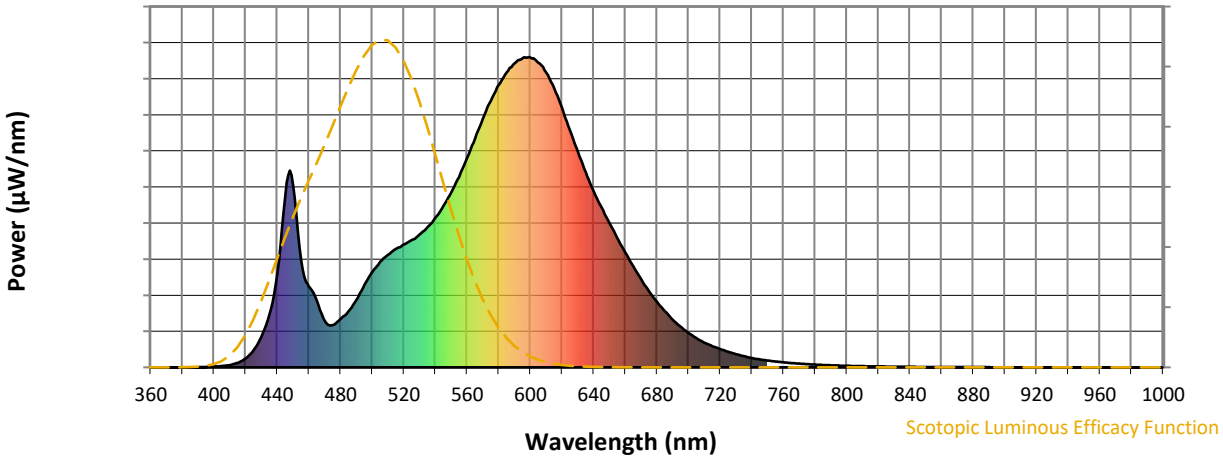


Photopic Lumens: NR

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

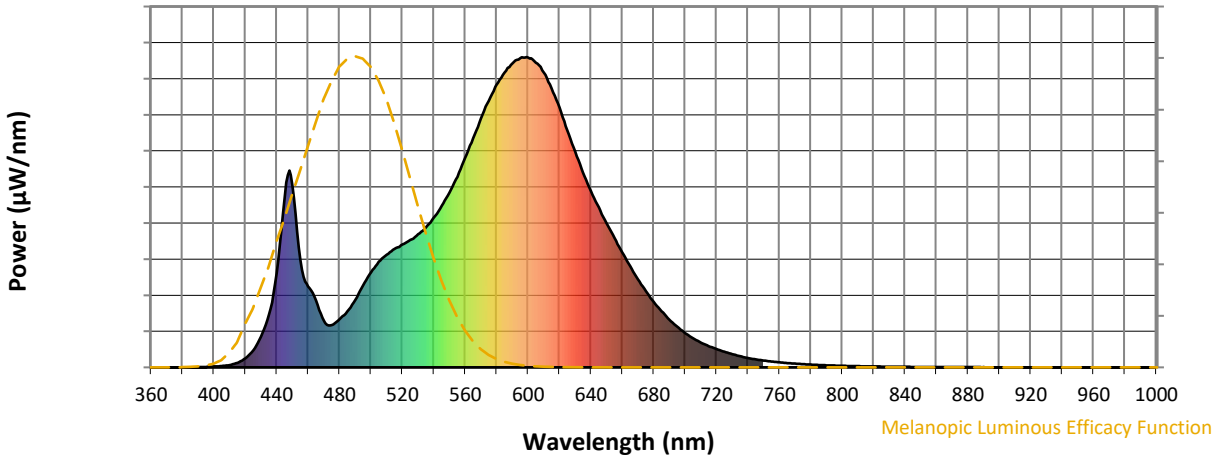


Scotopic Lumens: NR **S/P: 1.29**

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			

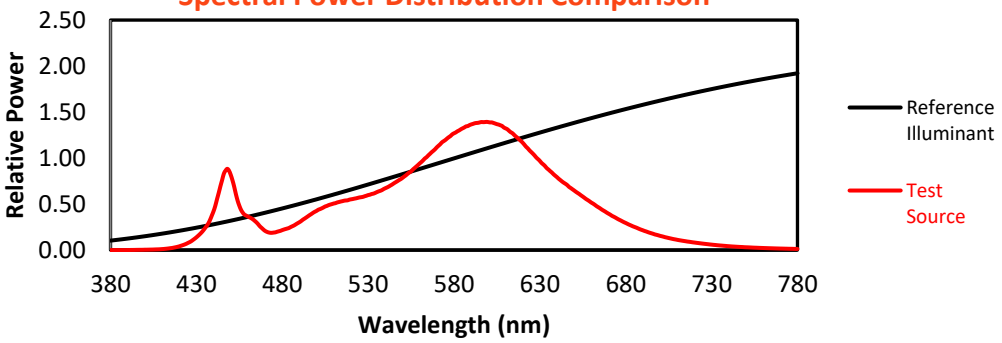
REPORT NUMBER: SP1-2501-332-9

TM-30-18

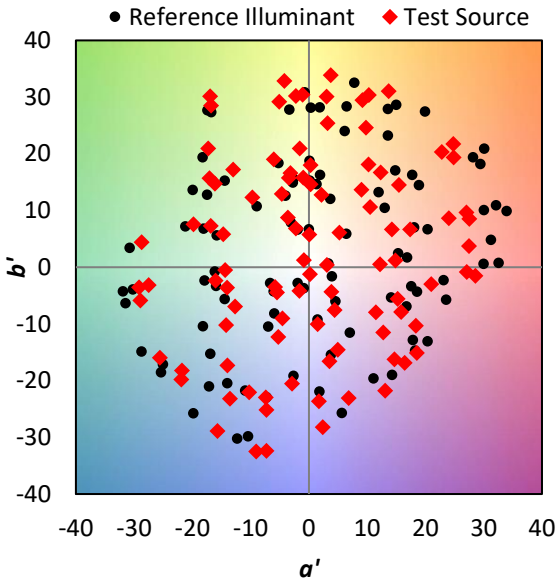
Summary

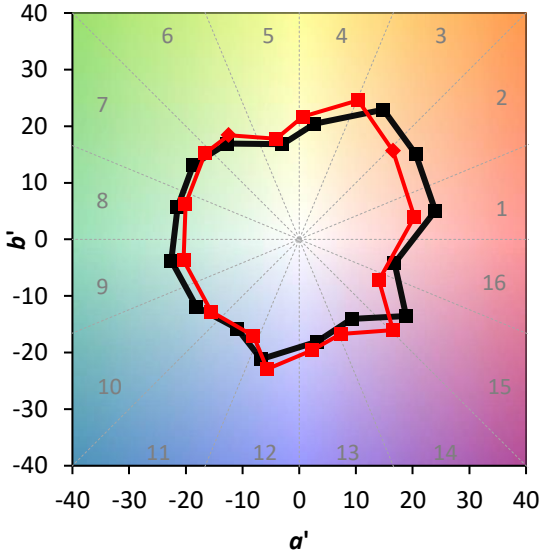
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

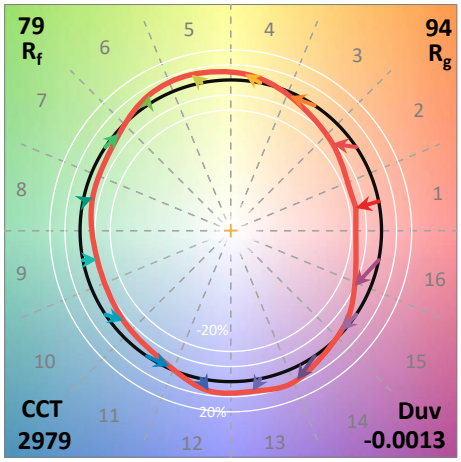
Spectral Power Distribution Comparison

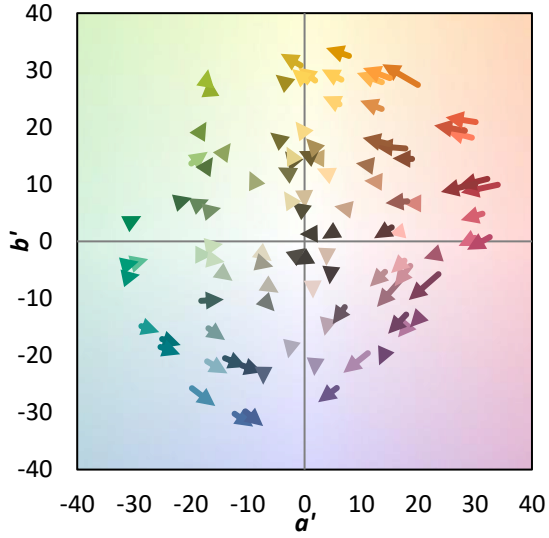


Color Vector Graphics







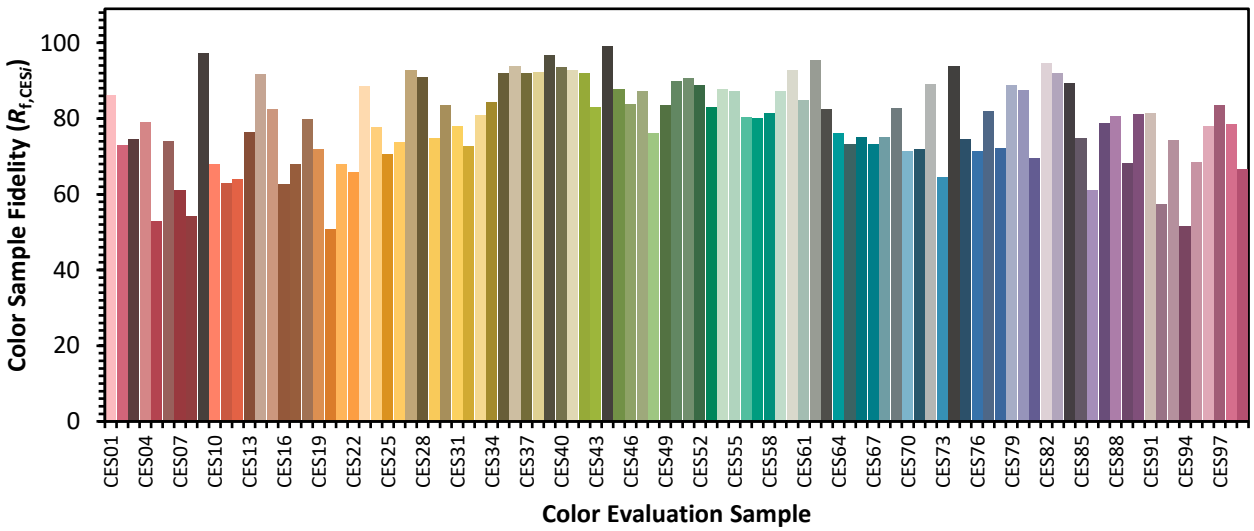


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

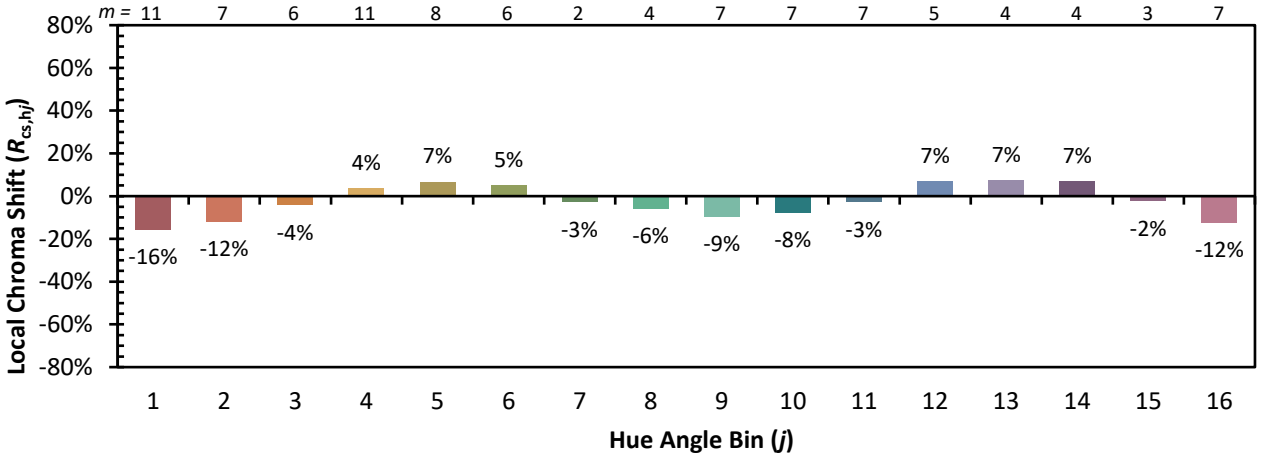
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57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

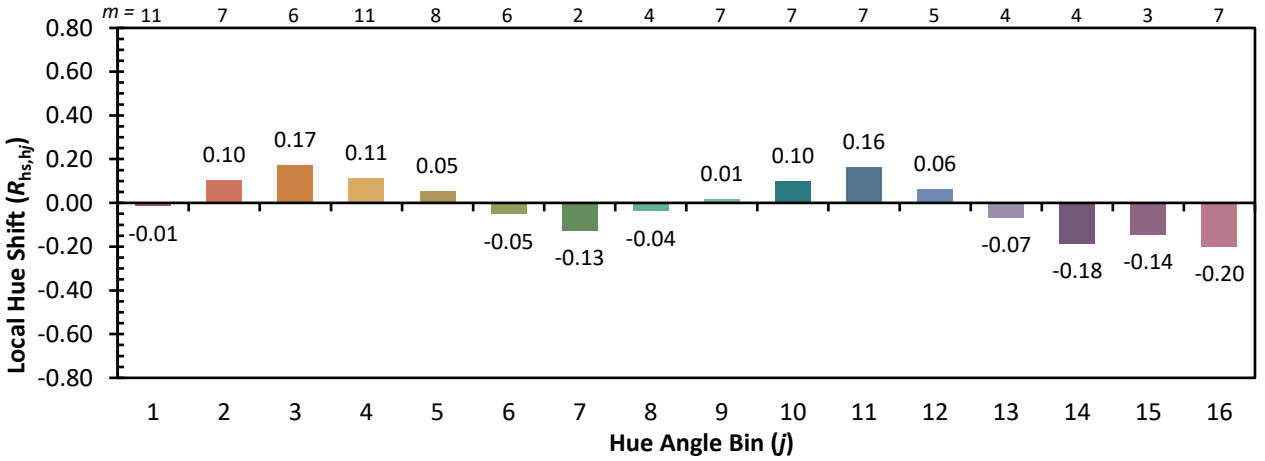


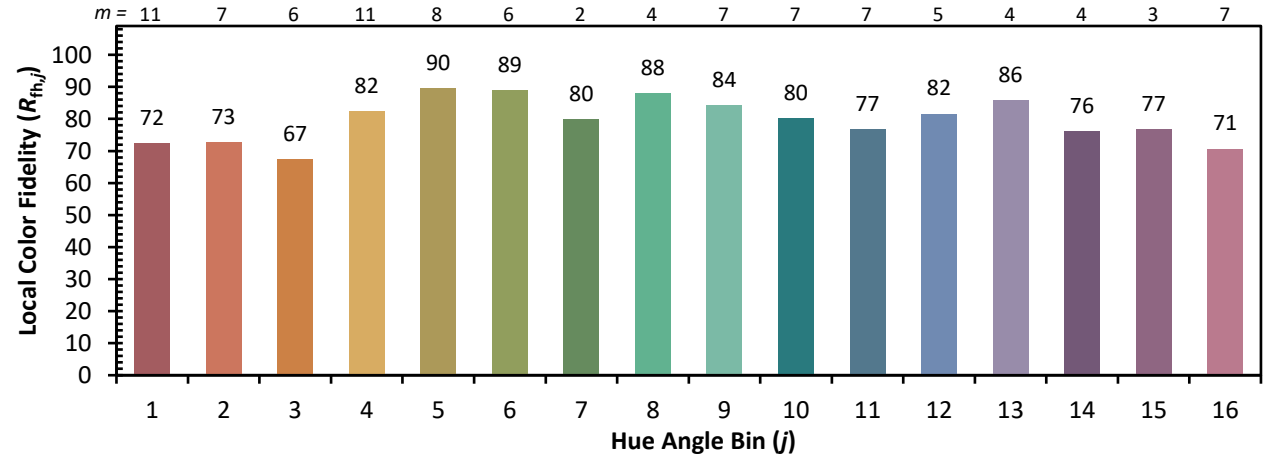
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Color Rendition by Hue-Angle Bin



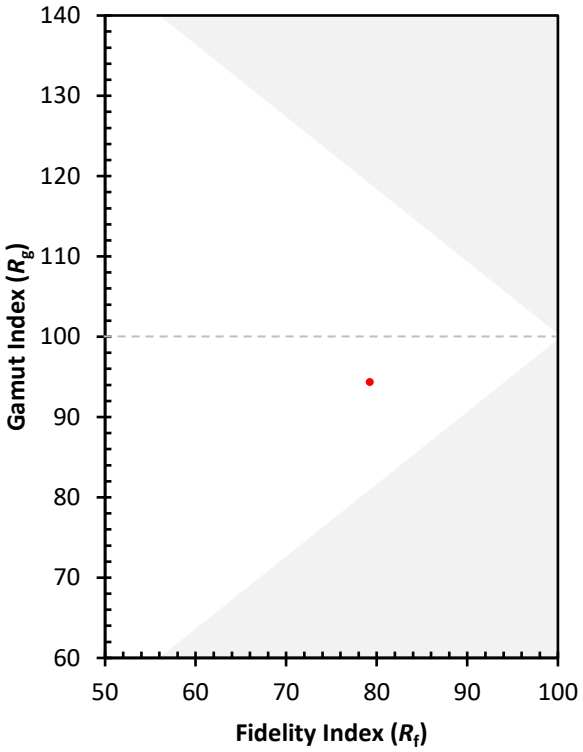


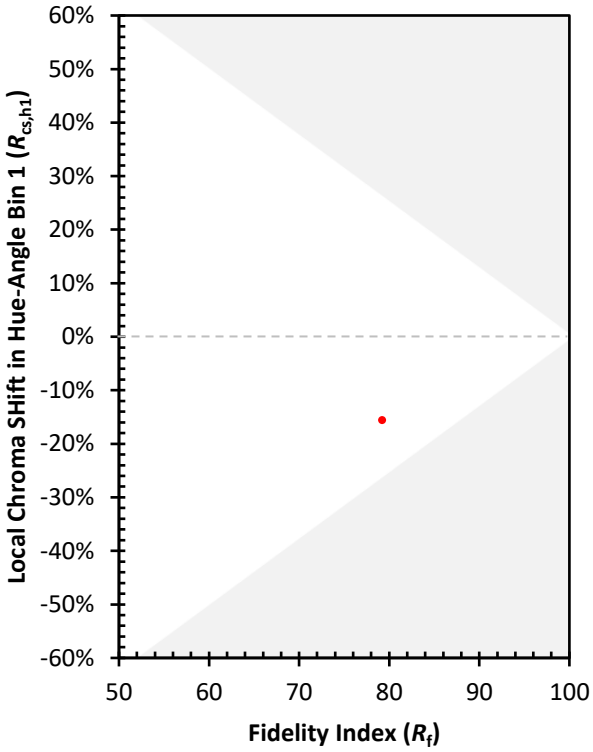


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Measure Comparisons





(END OF REPORT)