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: P1046613

Luminaire Tested: **FFX-CLB-20-730-U-FR-T3-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046613
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-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:	2870 lumens
Efficiency:	N/A
Efficacy:	144.9 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

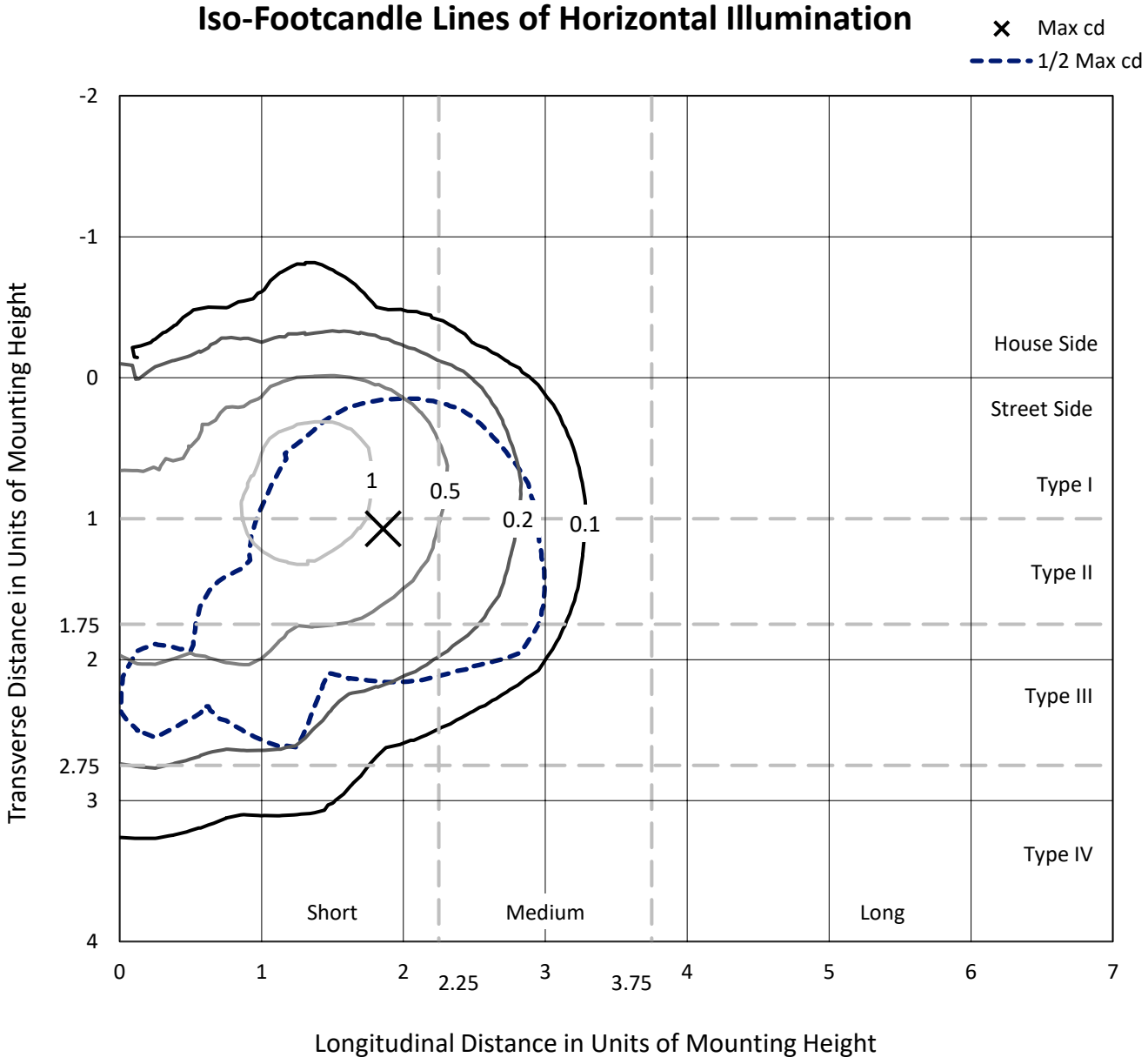


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Iso-Footcandle Lines of Horizontal Illumination



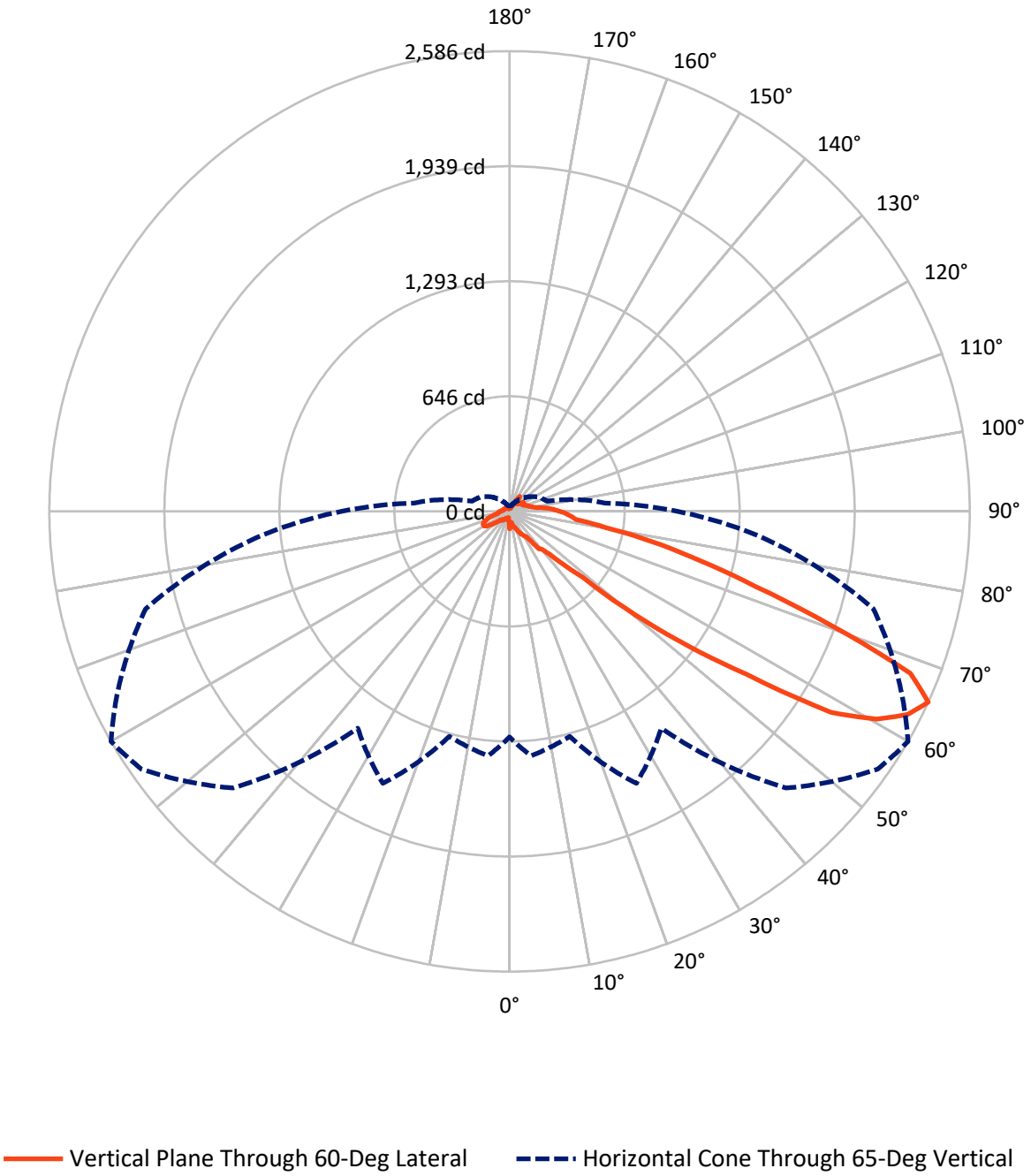
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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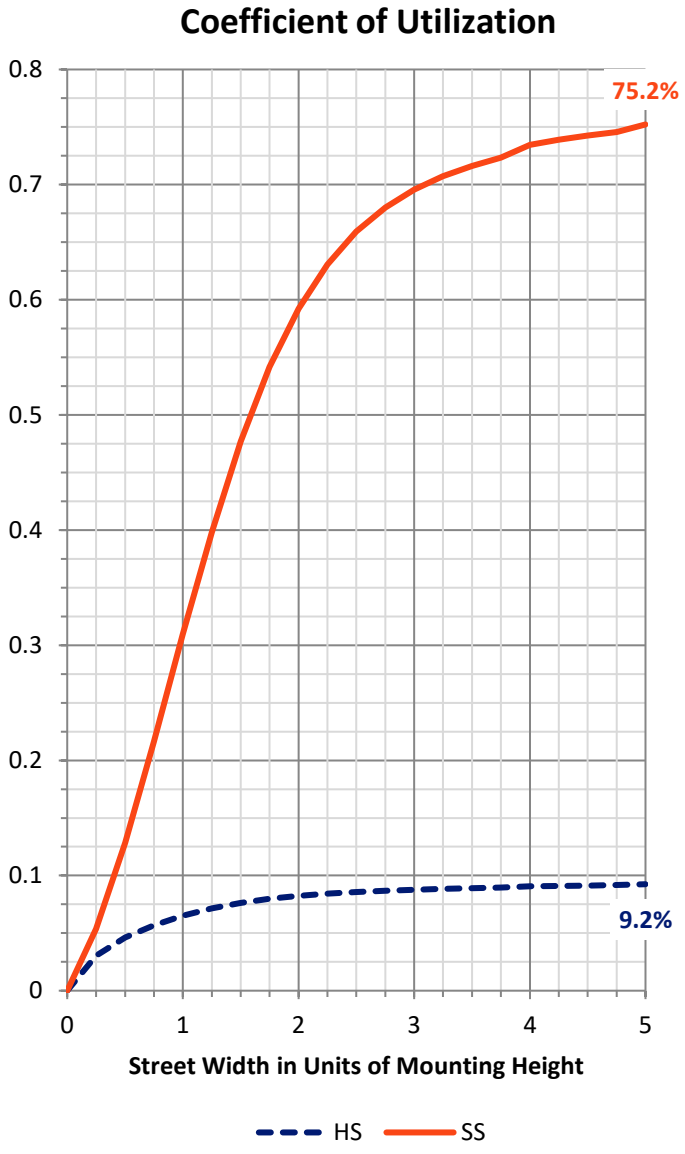
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	278.3	89.8	368.1
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	2236.4	265.5	2501.9
	% Fixture	77.9	9.2	87.2
Total	Lumens	2514.7	355.3	2870.0
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.2
10°-20°	18.4	0.6
20°-30°	39.3	1.4
30°-40°	80.6	2.8
40°-50°	188.9	6.6
50°-60°	590.8	20.6
60°-70°	925.0	32.2
70°-80°	489.3	17.1
80°-90°	177.2	6.2
90°-100°	106.8	3.7
100°-110°	66.9	2.3
110°-120°	54.1	1.9
120°-130°	45.1	1.6
130°-140°	32.9	1.1
140°-150°	30.2	1.1
150°-160°	12.6	0.4
160°-170°	5.0	0.2
170°-180°	1.6	0.1
0°-90°	2514.7	87.6
0°-180°	2870.0	100.0



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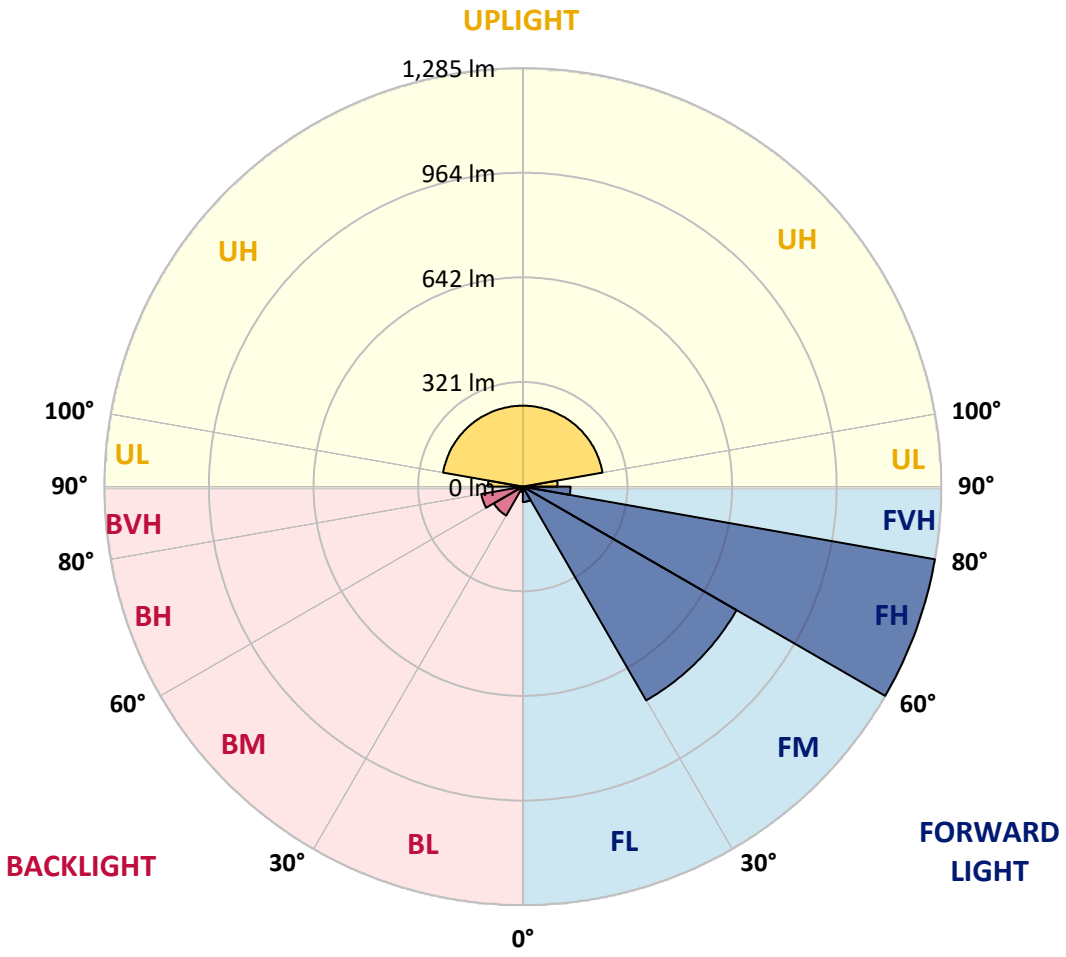
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	47.3	1.6			
FM	(30°-60°)	757.9	26.4			
FH	(60°-80°)	1284.8	44.8			G1/1800
FVH	(80°-90°)	146.4	5.1			G2/225
BL	(0°-30°)	15.6	0.5	B0/110		
BM	(30°-60°)	102.3	3.6	B0/220		
BH	(60°-80°)	129.5	4.5	B1/500		G1/500
BVH	(80°-90°)	30.8	1.1			G1/100
UL	(90°-100°)	106.8	3.7		U3/500	
UH	(100°-180°)	248.4	8.7		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
2.5°	53.7	55.8	68.0	80.6	84.2	76.4	66.1	67.4	73.0	100.1	112.1
5°	63.0	63.6	62.6	64.0	72.8	84.0	77.5	69.9	59.8	43.2	42.8
7.5°	72.4	72.4	72.0	66.7	60.7	58.8	64.4	65.5	64.4	53.7	46.4
10°	78.9	78.9	78.7	79.1	79.6	77.5	68.2	64.7	60.9	56.3	54.2
12.5°	95.7	96.1	98.9	97.4	91.9	86.3	87.3	86.3	80.6	70.7	62.6
15°	117.1	118.0	118.4	112.9	104.1	93.6	86.9	85.2	84.2	78.5	70.3
17.5°	128.3	127.8	122.8	117.1	111.5	103.9	97.6	95.1	91.3	84.2	75.4
20°	127.0	127.0	122.0	120.7	121.1	116.5	108.5	105.4	101.2	94.5	82.3
22.5°	130.6	130.8	127.6	128.7	133.3	128.7	120.9	118.8	114.8	105.2	92.8
25°	144.2	144.2	140.6	139.2	143.2	141.5	137.1	134.5	128.9	117.1	95.3
27.5°	156.6	155.7	152.4	152.8	149.0	148.2	147.1	146.1	141.1	122.4	96.6
30°	166.2	166.2	163.3	165.2	157.2	158.5	154.7	157.6	151.1	129.5	101.4
32.5°	175.1	176.3	175.3	177.8	168.3	173.8	167.3	170.4	166.5	142.3	115.0
35°	195.4	196.9	201.7	208.0	196.5	202.1	191.9	196.3	192.3	171.3	141.3
37.5°	276.2	273.9	263.4	253.1	242.0	265.3	262.8	267.0	260.7	226.9	178.4
40°	277.9	276.7	274.6	268.0	247.1	270.1	271.2	278.8	297.6	243.5	192.9
42.5°	285.0	286.5	311.5	314.6	298.9	334.8	324.9	325.3	390.0	288.4	248.9
45°	329.8	329.8	337.7	341.7	337.1	440.2	438.7	426.1	507.5	359.8	292.8
47.5°	378.0	379.5	394.2	433.7	459.5	557.1	586.0	555.8	662.7	472.1	403.4
50°	519.3	522.2	568.0	602.6	651.1	815.5	958.0	912.0	1079.7	720.2	607.9
52.5°	621.5	658.0	683.2	813.6	832.5	1085.0	1268.9	1253.1	1365.6	996.8	737.8
55°	739.7	796.6	813.4	1015.5	1049.3	1400.1	1590.9	1618.8	1625.7	1288.6	867.3
57.5°	934.3	1022.4	1025.6	1239.3	1245.1	1764.9	2068.6	2130.1	2060.0	1628.2	1071.6
60°	1094.6	1197.9	1163.3	1454.2	1395.9	2060.0	2301.0	2370.6	2240.5	1918.5	1214.3
62.5°	1193.9	1293.6	1248.1	1605.3	1486.5	2186.6	2439.7	2511.3	2368.1	2072.8	1324.1
65°	1268.0	1378.6	1308.5	1685.9	1486.3	2197.9	2525.3	2585.8	2432.6	2117.1	1356.4
67.5°	1269.5	1368.8	1281.2	1657.2	1387.5	2018.4	2391.6	2429.8	2259.8	1959.9	1260.3
70°	1109.8	1181.1	1083.9	1398.6	1119.2	1531.9	1867.7	1913.1	1742.0	1506.7	976.5
72.5°	928.6	956.5	860.2	1118.6	876.6	1159.3	1427.8	1444.8	1354.3	1128.6	754.8
75°	729.2	718.5	668.5	833.9	666.4	821.3	1121.3	1104.9	1055.2	830.6	576.0
77.5°	486.6	466.6	469.1	572.2	465.6	543.4	816.5	817.2	799.7	615.9	410.8
80°	296.8	297.4	289.2	362.9	307.3	361.2	562.7	544.3	544.7	406.2	287.6
82.5°	232.2	235.9	225.6	261.5	242.0	287.4	367.7	378.0	366.9	298.3	211.8
85°	228.0	231.3	220.6	242.9	230.1	274.6	345.9	345.1	339.2	276.7	200.2
87.5°	208.9	212.8	204.9	220.4	210.5	254.2	318.4	314.2	308.6	260.3	191.0
90°	176.3	183.7	178.2	197.5	183.9	218.7	276.9	275.2	272.2	230.1	170.0
92.5°	160.4	161.8	157.8	175.3	160.2	191.6	245.8	240.5	234.0	199.6	144.8
95°	143.6	142.9	139.2	153.2	139.8	160.4	208.9	200.9	197.5	168.6	120.9
97.5°	115.0	115.2	113.3	123.0	113.3	128.0	156.8	153.9	147.1	125.9	92.6
100°	100.8	101.4	100.1	107.7	99.5	108.9	130.6	129.9	124.5	107.5	80.8
102.5°	95.3	95.5	97.2	101.8	94.0	101.0	119.0	119.2	115.7	100.1	76.0
105°	91.5	91.3	92.6	96.3	89.6	94.7	111.2	111.2	106.2	94.5	72.0
107.5°	88.6	88.2	90.3	93.4	88.8	90.3	103.1	103.9	99.1	87.9	68.4
110°	85.2	85.0	88.6	90.9	86.5	86.7	97.8	97.2	92.8	85.6	67.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	86.5	87.7	91.7	85.2	78.7	79.1	87.7	*88.8*	85.6	78.3	64.0
115°	85.4	86.7	91.9	82.7	73.0	75.6	82.7	*83.5*	78.9	72.8	60.2
117.5°	81.7	82.1	85.2	82.9	72.8	75.8	79.3	*80.8*	77.5	72.8	60.9
120°	96.6	93.4	93.4	89.8	78.5	83.8	90.5	*91.7*	88.6	80.0	60.7
122.5°	88.8	87.7	87.9	83.3	77.7	82.1	90.0	*92.1*	89.4	80.8	60.7
125°	69.9	70.1	69.1	70.5	68.2	69.7	73.9	*77.2*	74.7	70.1	57.7
127.5°	63.6	63.4	62.1	68.4	61.3	64.2	68.2	*70.1*	67.6	62.3	52.3
130°	61.9	61.9	65.5	72.0	67.8	66.5	65.1	*67.0*	66.5	63.2	52.3
132.5°	57.9	58.1	63.4	71.8	70.1	64.2	59.0	*60.0*	61.9	62.8	55.2
135°	57.9	57.3	55.6	57.5	56.5	57.9	56.5	*57.9*	58.4	57.9	48.3
137.5°	61.7	61.3	57.1	54.6	54.8	59.4	59.6	*60.2*	59.6	56.3	46.8
140°	60.5	59.0	56.0	55.0	55.2	60.0	61.9	*62.3*	61.7	55.2	44.1
142.5°	58.4	58.4	59.2	60.5	62.3	84.8	78.9	*84.4*	84.6	77.9	45.3
145°	83.8	84.6	82.1	79.3	86.1	102.0	95.9	*101.8*	105.8	98.4	62.6
147.5°	75.6	76.8	75.4	73.0	81.9	82.1	78.3	*78.9*	80.0	81.7	63.2
150°	53.5	52.1	54.4	52.7	61.5	61.1	55.8	*57.1*	59.4	59.6	50.4
152.5°	39.7	39.0	38.6	38.4	44.3	40.7	38.8	*38.2*	38.6	38.4	36.1
155°	35.1	35.1	34.8	35.9	39.0	36.5	34.6	*34.8*	33.8	33.2	31.9
157.5°	27.3	26.7	27.3	29.2	30.4	28.1	27.5	*27.1*	26.9	25.8	26.2
160°	22.5	22.5	22.9	24.3	25.2	23.5	22.2	*21.8*	21.8	21.4	22.9
162.5°	19.1	19.1	19.5	19.9	20.4	19.5	19.1	*19.1*	18.9	18.9	20.4
165°	16.0	16.0	16.2	17.0	17.2	16.8	16.6	*16.8*	16.8	17.6	18.9
167.5°	14.7	14.7	14.9	15.3	15.5	15.3	16.0	*16.6*	17.2	18.1	18.5
170°	14.1	14.1	14.3	14.5	14.9	15.3	16.6	*17.0*	17.2	17.0	17.0
172.5°	14.5	14.5	14.5	14.9	15.3	16.4	17.4	*17.4*	17.0	16.6	16.6
175°	14.7	14.5	14.7	15.1	15.7	16.4	16.8	*17.2*	17.2	17.0	17.0
177.5°	14.5	14.5	14.7	14.9	14.9	14.9	15.1	*15.3*	15.3	15.5	15.7
180°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	*14.3*	14.3	14.3	14.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
2.5°	109.8	103.7	76.8	51.0	62.6	91.3	106.4	99.7	74.3	42.8	36.3
5°	44.9	50.4	58.8	56.3	50.6	41.6	31.3	31.1	43.0	52.3	53.1
7.5°	43.2	39.7	37.6	41.6	38.8	26.9	22.7	18.9	20.2	29.6	28.3
10°	53.3	52.1	48.5	39.7	29.2	24.1	22.7	23.1	24.8	22.2	22.0
12.5°	59.4	56.3	48.5	46.0	39.0	27.7	22.9	21.2	22.7	28.3	30.6
15°	65.1	60.5	50.8	42.6	35.1	28.8	24.6	21.4	19.1	16.6	16.4
17.5°	70.1	64.2	53.5	44.3	34.8	28.8	23.7	18.7	16.2	15.3	15.3
20°	76.2	70.7	57.1	46.2	35.1	28.1	22.9	18.5	16.2	15.3	15.3
22.5°	84.4	75.4	60.9	47.0	35.5	27.9	22.5	18.9	16.8	15.5	15.5
25°	86.7	79.8	63.4	49.7	37.2	29.0	23.5	19.5	17.2	16.2	16.0
27.5°	88.4	83.1	68.2	52.1	39.0	31.1	25.2	20.4	17.6	16.6	16.4
30°	94.9	90.3	73.5	55.4	41.6	33.2	26.7	21.6	18.5	16.8	16.4
32.5°	108.7	102.2	81.2	58.8	44.7	35.5	28.5	22.9	19.3	17.2	16.8
35°	135.2	129.9	101.8	65.7	48.1	38.4	30.9	24.6	20.4	17.8	17.6
37.5°	165.8	157.6	123.6	76.4	50.4	40.9	33.2	26.2	21.4	18.9	18.5
40°	171.1	147.8	109.6	69.7	50.8	42.2	35.3	28.1	22.7	19.7	19.1
42.5°	214.5	181.4	127.0	72.0	51.8	42.2	35.7	29.4	23.9	20.4	19.9
45°	226.9	180.7	126.4	80.4	56.9	43.4	35.9	30.0	25.0	21.4	20.8
47.5°	289.2	221.7	128.3	85.4	62.1	47.9	37.4	30.4	25.2	22.0	21.8
50°	413.5	296.4	154.3	103.1	74.5	55.8	42.0	31.9	25.6	22.7	22.5
52.5°	510.7	352.0	165.6	123.4	94.9	70.9	50.2	35.7	26.4	22.9	22.5
55°	607.0	419.8	186.6	145.7	112.9	85.4	62.3	41.8	28.5	23.3	22.9
57.5°	754.0	504.0	212.6	167.5	133.9	99.1	69.7	47.2	31.1	23.7	23.1
60°	843.2	533.8	215.4	178.6	145.9	108.7	72.2	49.3	34.2	25.4	24.3
62.5°	923.4	560.7	217.2	183.7	148.0	109.8	72.4	47.6	34.8	27.9	26.7
65°	*944.1*	*538.8*	*219.1*	*185.3*	*144.2*	*103.7*	*69.7*	*46.0*	*33.2*	*30.2*	*30.0*
67.5°	897.1	483.2	206.1	179.0	134.1	93.2	62.8	43.7	32.3	29.4	30.0
70°	699.0	383.7	188.9	165.0	115.9	78.7	55.8	40.7	31.9	27.9	27.3
72.5°	550.8	326.4	190.8	157.2	97.8	69.7	49.3	37.2	30.2	27.3	26.9
75°	429.0	273.5	183.7	135.4	79.3	59.4	43.2	33.2	28.1	26.2	26.0
77.5°	314.6	217.0	151.5	104.3	65.5	49.5	37.8	30.4	26.7	25.0	24.8
80°	206.3	153.4	105.6	83.3	56.5	44.7	34.4	28.5	25.6	24.1	23.9
82.5°	175.5	136.2	93.8	76.6	52.3	43.0	33.8	27.9	25.4	23.7	23.5
85°	169.2	139.6	95.9	79.3	49.7	41.1	32.7	27.5	24.8	23.3	23.1
87.5°	158.9	126.4	92.8	71.2	46.0	37.6	30.6	26.4	23.7	22.5	22.0
90°	141.5	108.1	79.8	61.1	43.7	35.3	29.0	25.2	23.1	21.8	21.4
92.5°	114.2	82.1	62.8	53.9	42.6	35.1	28.8	25.2	23.1	21.8	21.4
95°	95.9	70.3	56.3	49.3	39.7	33.2	27.5	24.3	22.5	21.2	21.2
97.5°	76.0	58.8	50.2	44.3	35.7	30.2	26.0	23.3	21.6	20.4	20.4
100°	67.4	54.6	47.6	41.6	33.8	28.5	25.4	22.7	21.2	19.7	19.7
102.5°	64.0	52.9	47.0	39.5	32.3	27.5	24.3	21.8	20.6	19.1	19.1
105°	61.9	52.3	46.6	38.4	30.9	26.2	23.3	20.8	19.7	18.7	18.5
107.5°	59.8	51.4	47.2	37.8	29.6	25.4	23.3	20.6	19.3	18.5	18.5
110°	58.8	51.8	47.0	37.2	29.2	25.2	23.1	20.8	19.7	18.9	18.7

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

Scaled Data Report

REPORT NUMBER: P1046613
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	56.0	49.5	44.9	35.3	28.5	24.6	22.2	20.6	19.1	18.3	18.1
115°	53.3	45.5	41.1	33.6	27.1	23.7	21.6	19.9	18.5	17.8	17.8
117.5°	54.4	44.5	37.8	33.0	26.7	23.1	21.2	19.5	18.3	17.8	17.6
120°	53.7	46.8	42.4	35.3	26.4	22.5	20.8	19.1	18.1	17.8	17.8
122.5°	51.4	50.6	46.6	35.9	25.6	22.7	21.2	19.7	18.7	18.1	18.1
125°	49.5	49.1	43.4	32.3	26.2	23.5	22.2	20.8	20.2	19.5	19.3
127.5°	45.8	41.1	36.1	31.1	26.7	23.9	22.7	21.8	21.2	20.2	19.9
130°	46.0	42.2	37.2	31.3	25.6	23.5	22.9	22.0	21.0	19.3	19.1
132.5°	50.0	46.0	36.9	29.0	24.6	23.5	23.1	22.0	19.7	17.8	17.6
135°	41.6	38.8	32.7	27.7	25.0	24.3	24.1	21.8	18.5	17.2	17.0
137.5°	40.5	36.5	31.5	27.9	26.0	24.8	23.9	21.0	17.2	16.0	15.5
140°	38.2	34.4	30.9	28.3	25.2	21.0	19.1	17.6	16.0	14.9	14.7
142.5°	38.2	34.6	29.2	25.0	21.8	19.5	18.5	17.2	15.3	13.9	13.4
145°	45.1	40.9	35.3	31.7	28.3	24.8	21.2	17.4	14.3	12.4	12.2
147.5°	51.2	46.2	41.8	35.9	30.4	24.6	19.5	15.3	13.0	12.2	12.2
150°	42.0	37.4	35.1	30.0	25.2	20.2	16.6	14.3	13.0	12.6	12.6
152.5°	31.5	26.4	24.8	22.0	19.1	16.6	14.9	13.6	13.2	13.0	13.0
155°	29.4	25.2	23.1	20.6	17.6	15.5	14.5	13.9	13.4	13.2	13.2
157.5°	25.6	23.3	20.6	18.7	16.6	15.1	14.5	14.1	13.6	13.4	13.4
160°	22.9	21.2	18.7	17.2	15.7	15.1	15.1	14.9	14.3	14.1	14.1
162.5°	20.6	19.9	17.6	16.4	15.7	16.0	17.0	16.8	15.7	14.9	14.7
165°	19.1	18.5	16.8	16.2	15.7	16.6	18.7	18.3	16.6	15.5	15.5
167.5°	18.3	17.8	16.6	16.0	16.2	17.8	19.7	19.9	18.5	17.0	16.8
170°	16.8	16.8	16.6	16.8	16.8	17.6	18.7	19.3	19.3	19.7	19.5
172.5°	16.6	16.8	17.4	17.4	17.2	17.4	18.3	19.3	19.9	20.6	20.8
175°	17.0	17.2	17.6	17.8	17.8	18.3	19.5	20.4	20.8	20.6	20.6
177.5°	15.7	16.0	16.2	17.0	17.4	17.8	19.1	19.5	19.9	20.4	20.4
180°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3

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

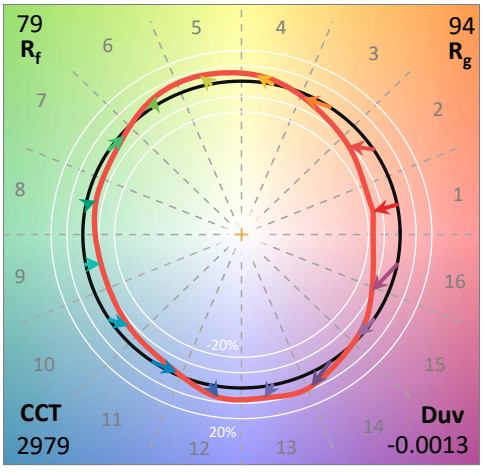
Test Information

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

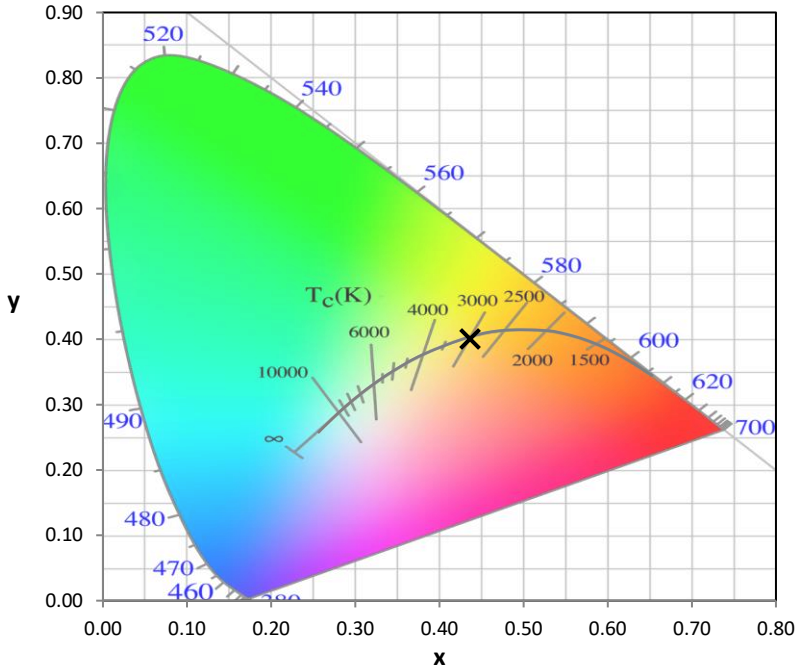
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

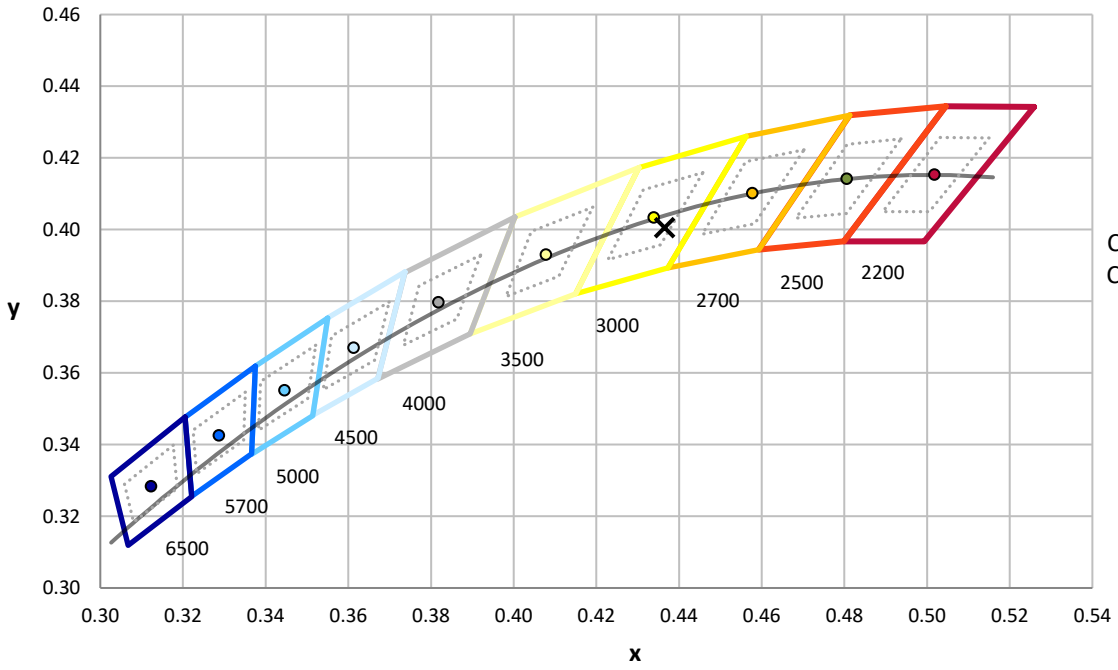
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

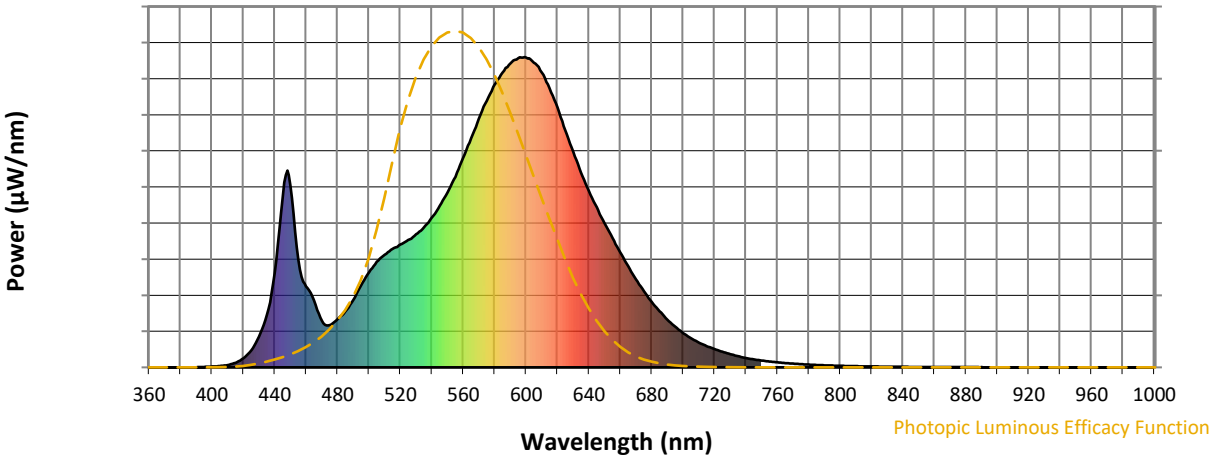


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

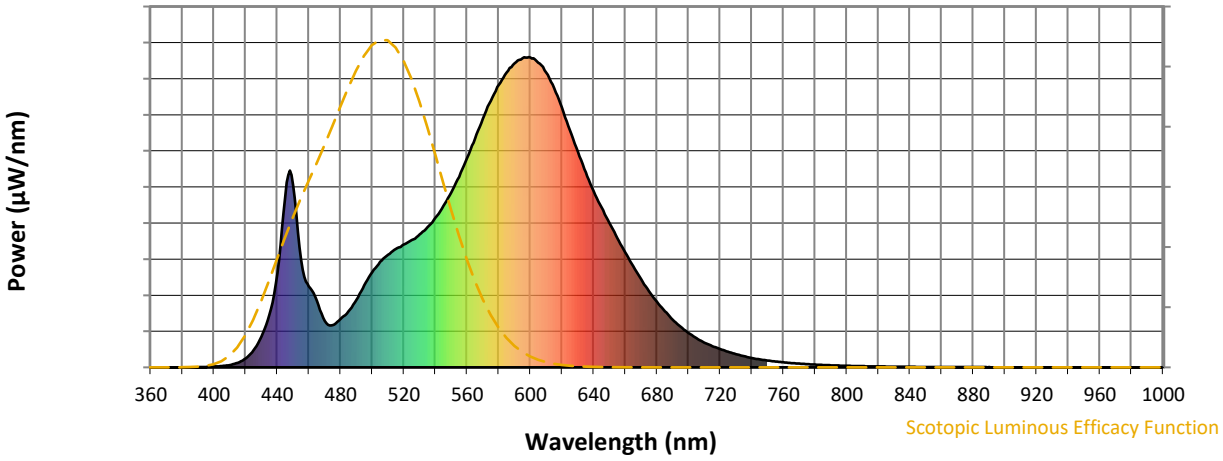


Photopic Lumens: NR

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

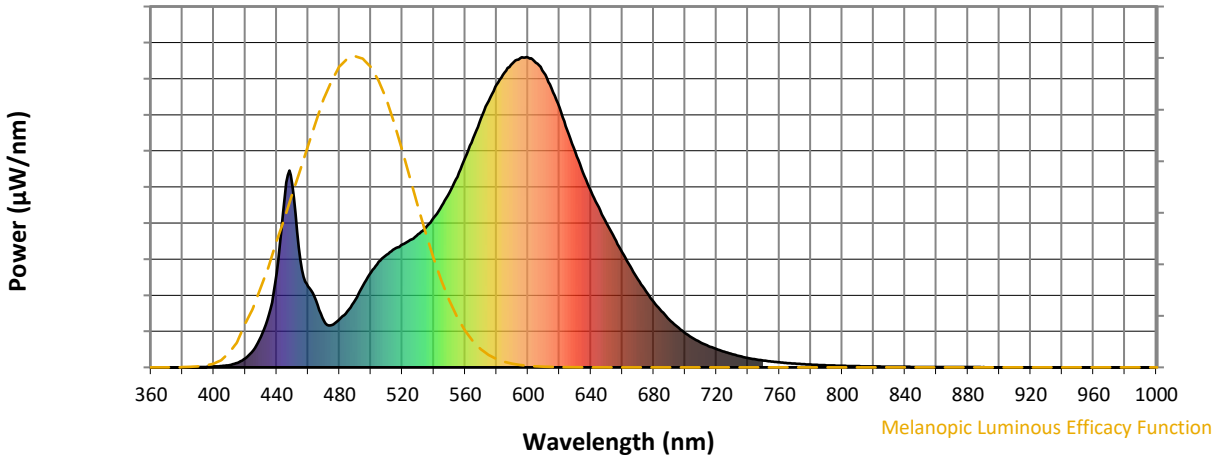


Scotopic Lumens: NR **S/P: 1.29**

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			

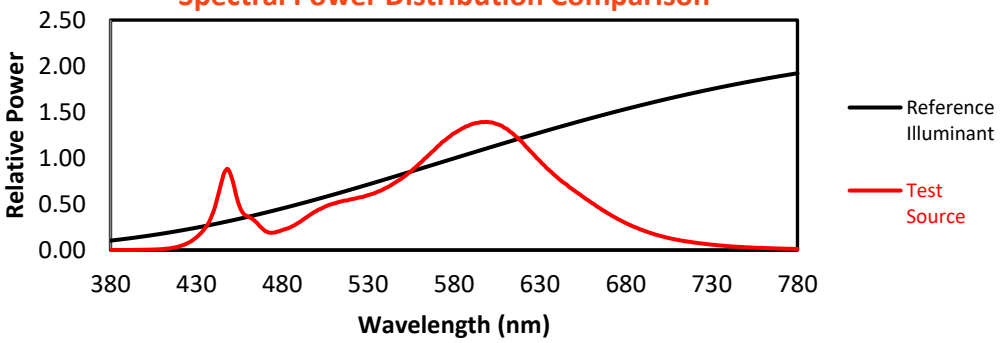
REPORT NUMBER: SP1-2501-332-9

TM-30-18

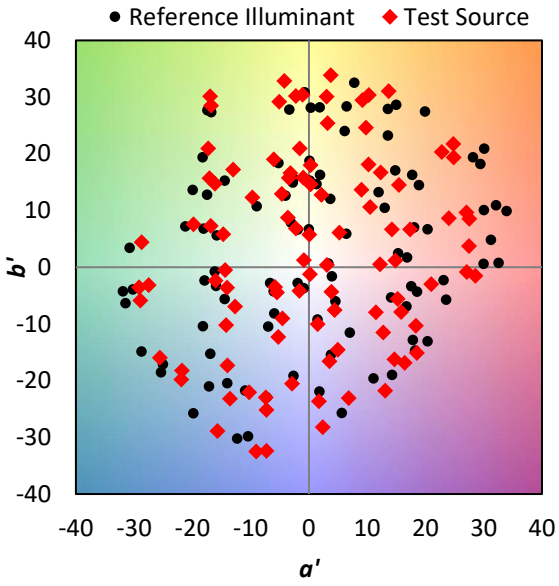
Summary

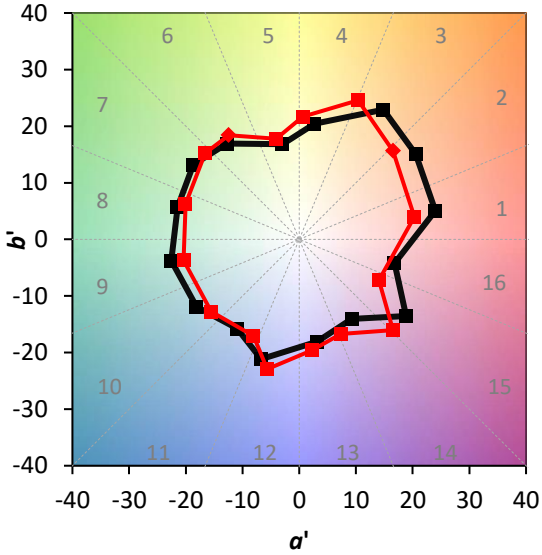
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

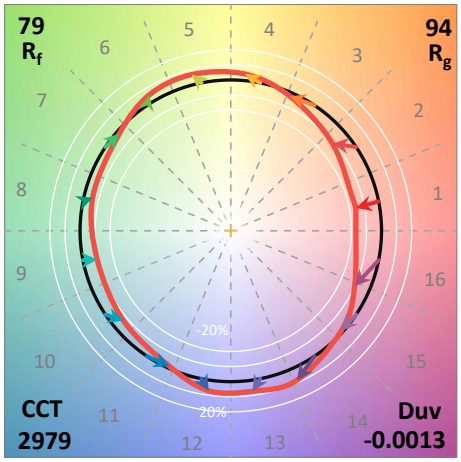
Spectral Power Distribution Comparison

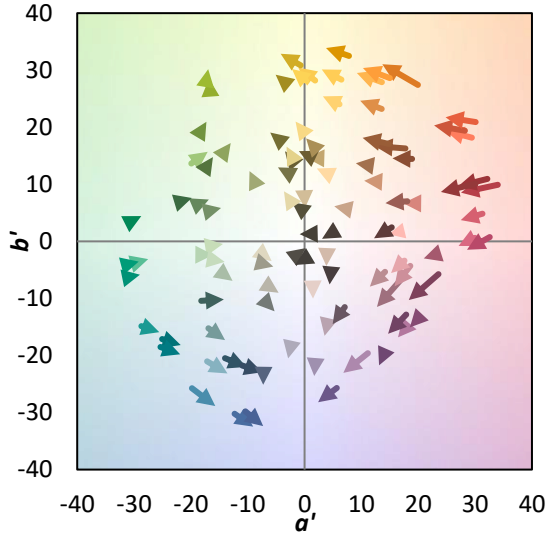


Color Vector Graphics







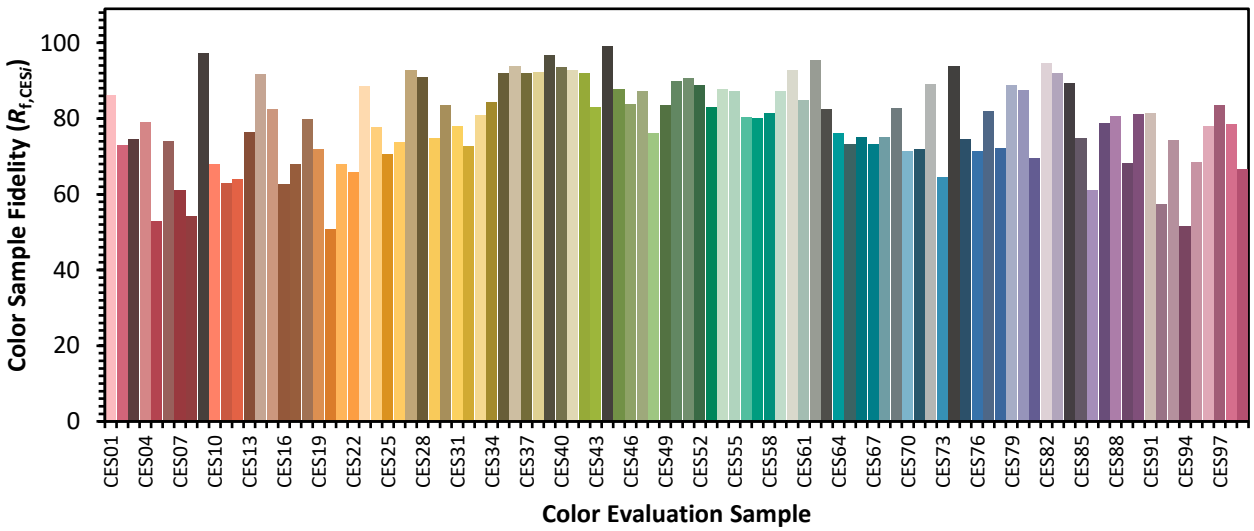


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

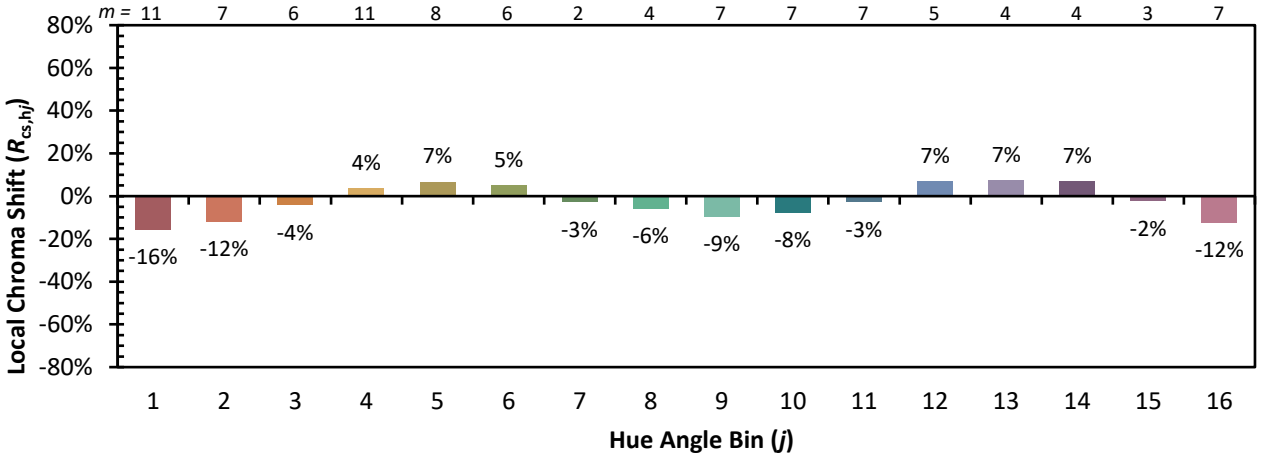
CES01 = 86	CES26 = 74	CES51 = 91	CES76 = 71
CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 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	

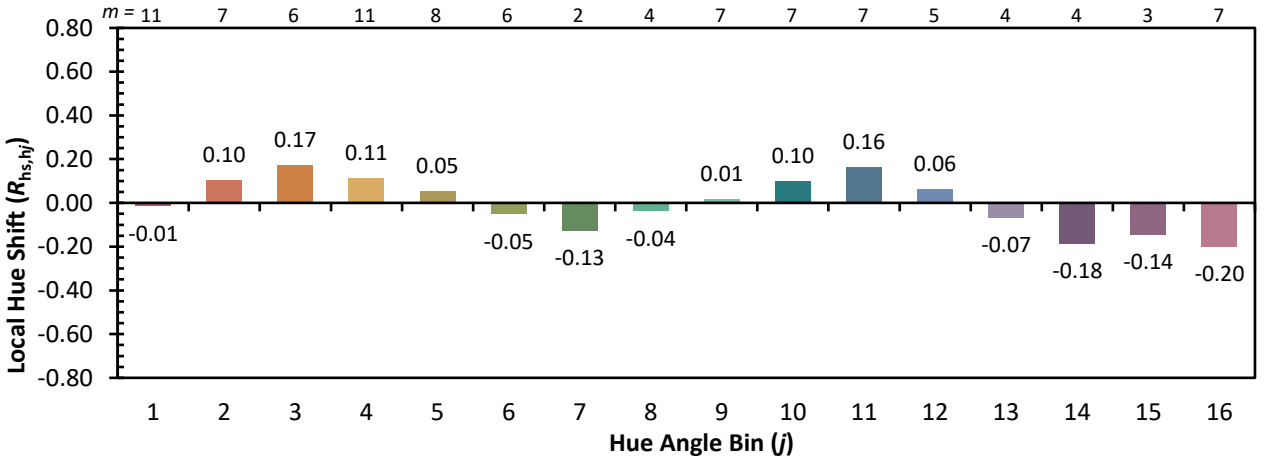


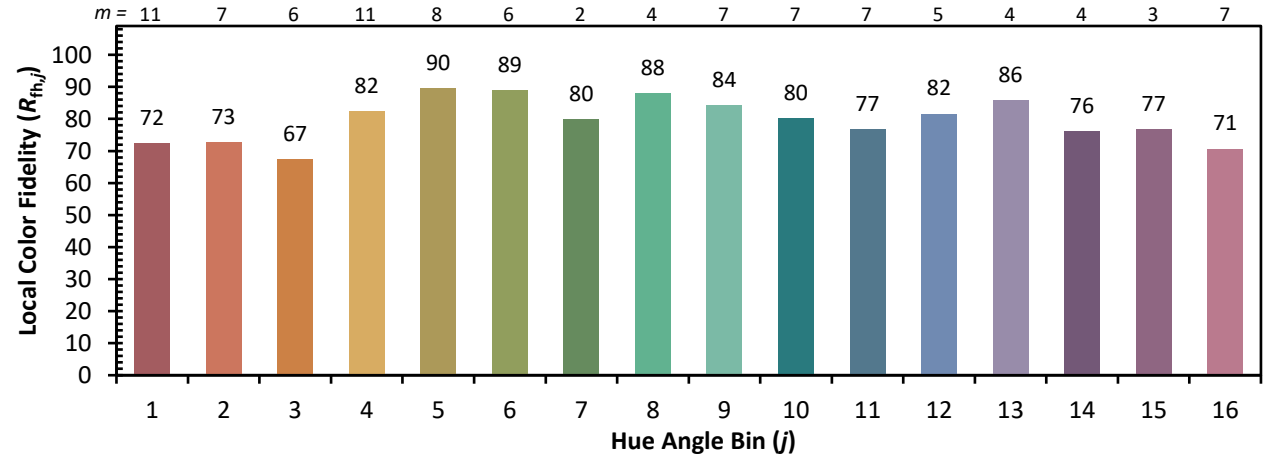
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Color Rendition by Hue-Angle Bin



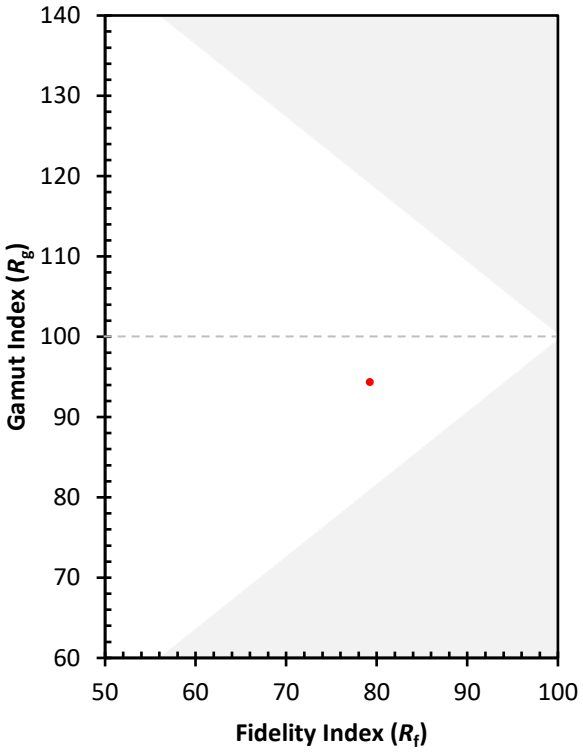


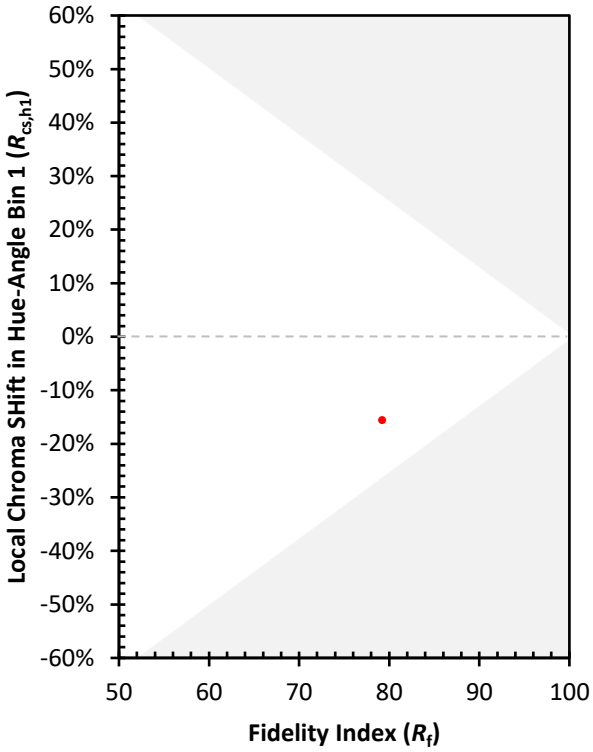


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Measure Comparisons





(END OF REPORT)