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: P1046595

Luminaire Tested: **FFX-CLB-20-722-U-FR-T3-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:	P1046595
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-722-U-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2416.8 lumens
Efficiency:	N/A
Efficacy:	122.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B0 - 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

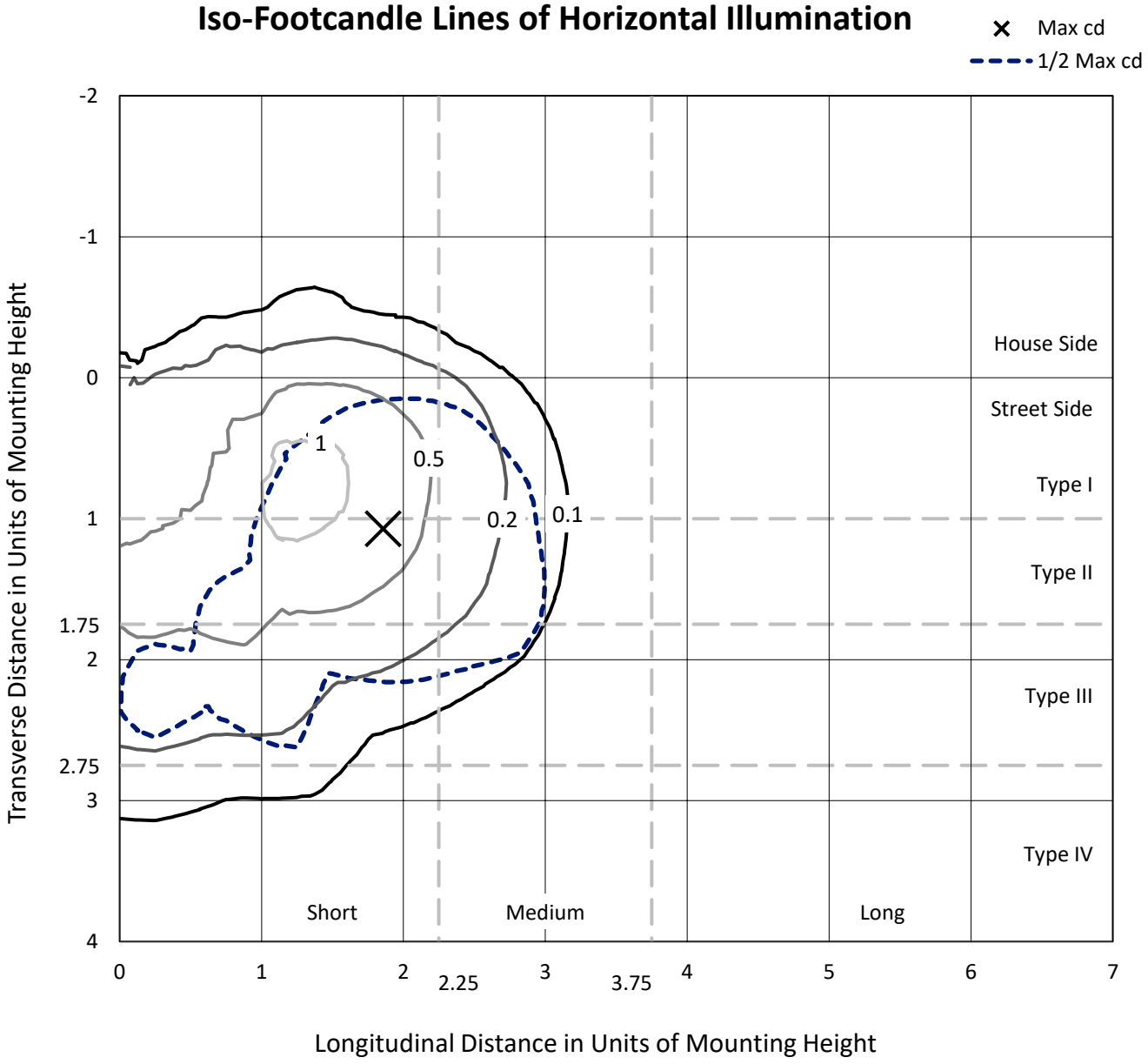


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Iso-Footcandle Lines of Horizontal Illumination



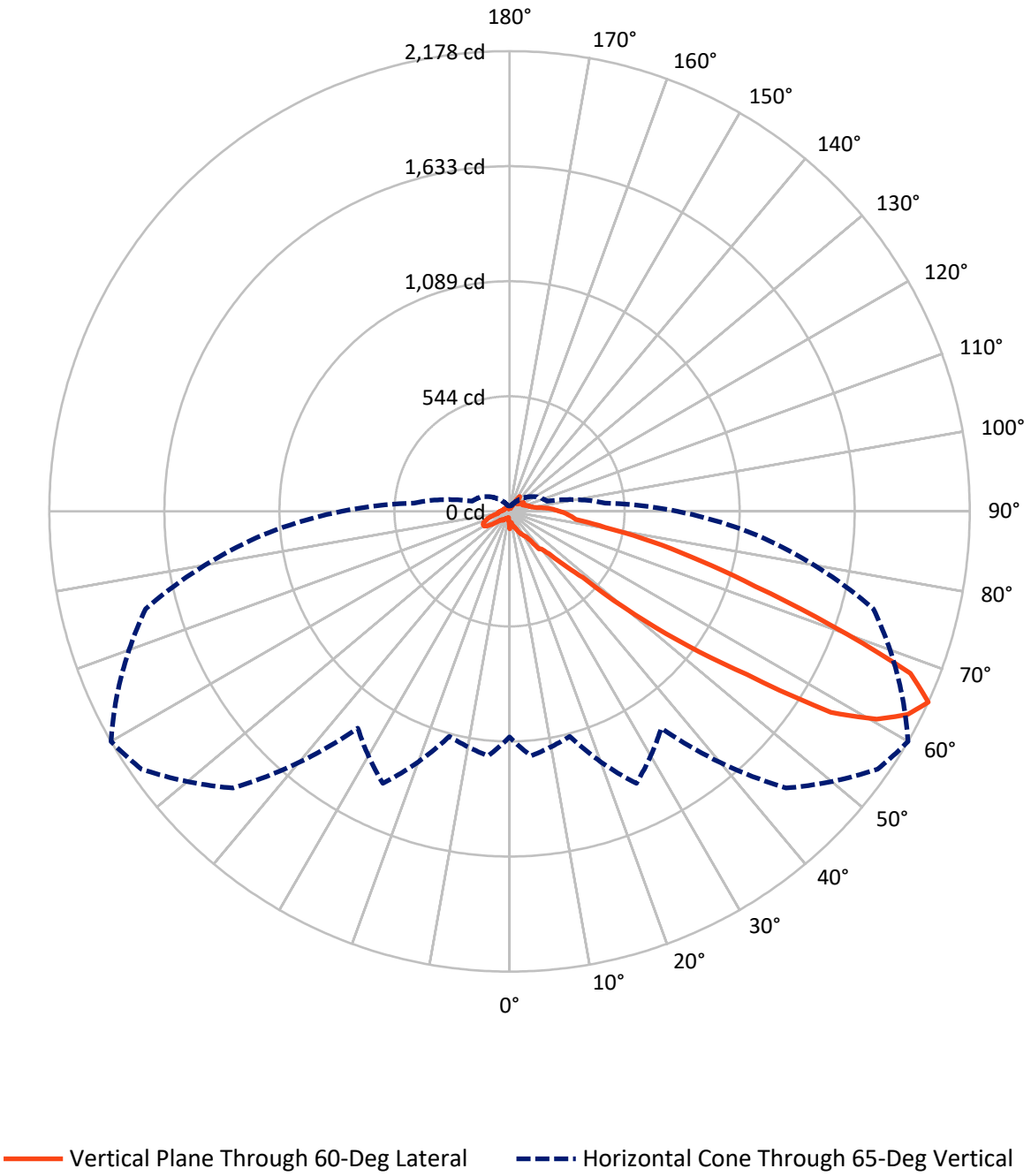
Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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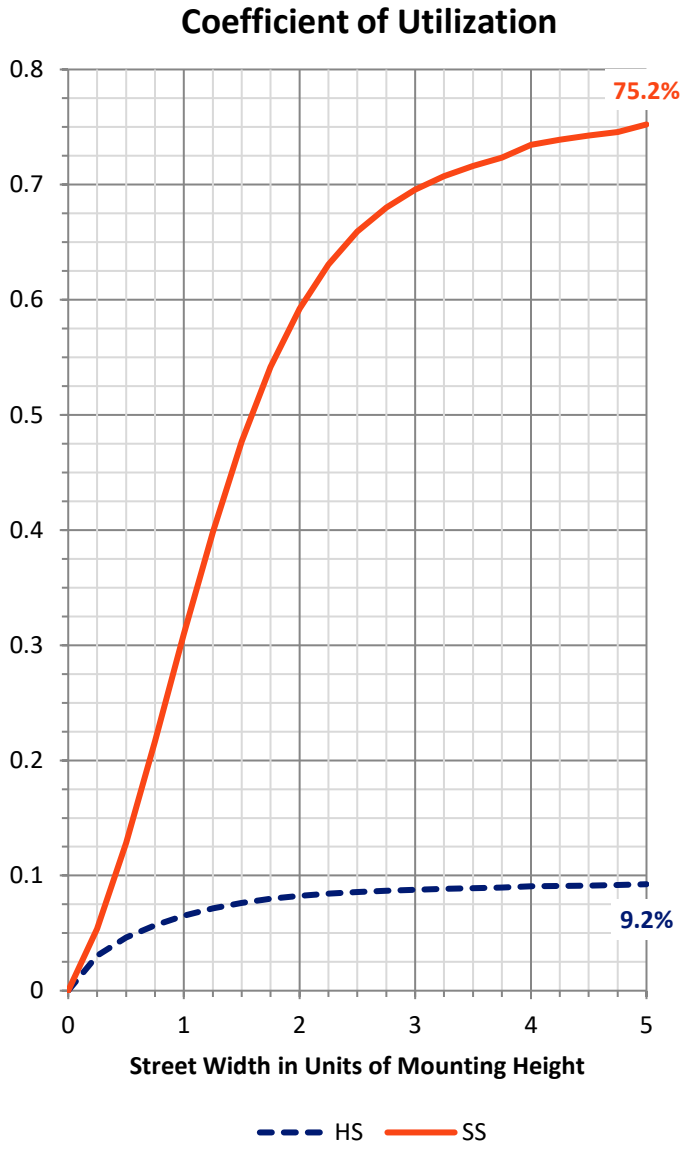
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	234.3	75.6	310.0
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	1883.3	223.5	2106.8
	% Fixture	77.9	9.2	87.2
Total	Lumens	2117.6	299.2	2416.8
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.2
10°-20°	15.5	0.6
20°-30°	33.1	1.4
30°-40°	67.9	2.8
40°-50°	159.0	6.6
50°-60°	497.5	20.6
60°-70°	779.0	32.2
70°-80°	412.1	17.1
80°-90°	149.2	6.2
90°-100°	90.0	3.7
100°-110°	56.4	2.3
110°-120°	45.5	1.9
120°-130°	38.0	1.6
130°-140°	27.7	1.1
140°-150°	25.4	1.1
150°-160°	10.6	0.4
160°-170°	4.2	0.2
170°-180°	1.4	0.1
0°-90°	2117.6	87.6
0°-180°	2416.8	100.0



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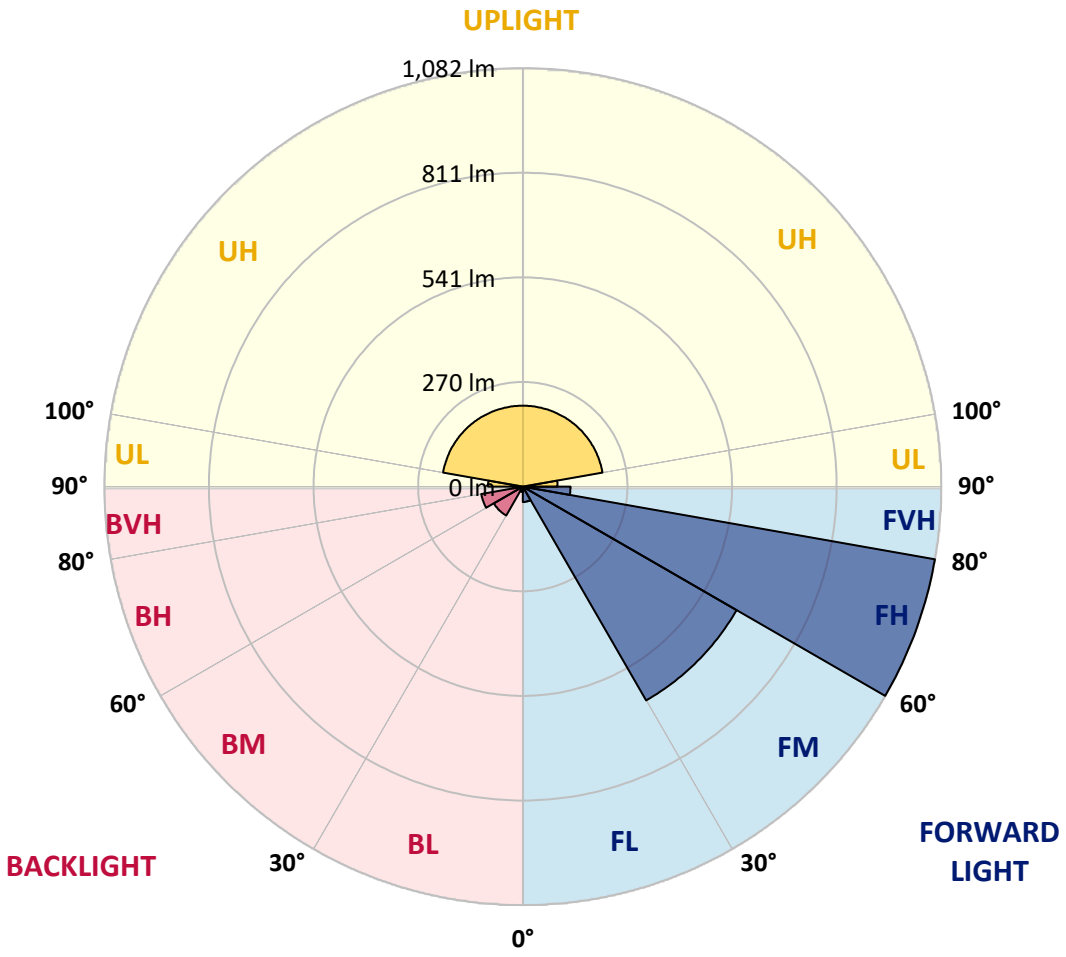
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	39.8	1.6			
FM	(30°-60°)	638.2	26.4			
FH	(60°-80°)	1082.0	44.8			G1/1800
FVH	(80°-90°)	123.3	5.1			G2/225
BL	(0°-30°)	13.2	0.5	B0/110		
BM	(30°-60°)	86.2	3.6	B0/220		
BH	(60°-80°)	109.1	4.5	B0/110		G0/110
BVH	(80°-90°)	25.9	1.1			G1/100
UL	(90°-100°)	90.0	3.7		U3/500	
UH	(100°-180°)	209.2	8.7		U3/500	

BUG Rating: B0-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
2.5°	45.3	47.0	57.3	67.9	70.9	64.3	55.7	56.7	61.5	84.3	94.4
5°	53.0	53.6	52.7	53.9	61.3	70.7	65.2	58.9	50.4	36.4	36.1
7.5°	61.0	61.0	60.6	56.2	51.1	49.5	54.3	55.1	54.3	45.3	39.1
10°	66.5	66.5	66.3	66.6	67.0	65.2	57.4	54.4	51.3	47.4	45.6
12.5°	80.6	81.0	83.3	82.0	77.4	72.6	73.5	72.6	67.9	59.6	52.7
15°	98.6	99.3	99.7	95.1	87.7	78.8	73.2	71.8	70.9	66.1	59.2
17.5°	108.0	107.6	103.4	98.6	93.9	87.5	82.2	80.1	76.9	70.9	63.5
20°	106.9	106.9	102.7	101.6	102.0	98.1	91.4	88.7	85.2	79.5	69.3
22.5°	109.9	110.1	107.5	108.4	112.2	108.4	101.8	100.0	96.7	88.6	78.1
25°	121.4	121.4	118.4	117.2	120.6	119.1	115.4	113.3	108.5	98.6	80.2
27.5°	131.9	131.2	128.3	128.7	125.5	124.8	123.9	123.0	118.8	103.1	81.3
30°	140.0	140.0	137.5	139.1	132.4	133.5	130.3	132.7	127.3	109.1	85.4
32.5°	147.4	148.5	147.6	149.7	141.8	146.4	140.9	143.5	140.2	119.8	96.9
35°	164.6	165.8	169.9	175.2	165.4	170.2	161.6	165.3	161.9	144.2	119.0
37.5°	232.6	230.7	221.8	213.2	203.8	223.4	221.3	224.8	219.5	191.1	150.2
40°	234.0	233.0	231.2	225.7	208.0	227.5	228.4	234.7	250.6	205.0	162.4
42.5°	240.0	241.3	262.3	265.0	251.7	281.9	273.6	274.0	328.4	242.9	209.6
45°	277.7	277.7	284.4	287.8	283.9	370.7	369.4	358.8	427.4	303.0	246.6
47.5°	318.3	319.6	332.0	365.2	386.9	469.1	493.5	468.1	558.0	397.5	339.7
50°	437.3	439.8	478.3	507.5	548.3	686.7	806.7	768.0	909.3	606.5	511.9
52.5°	523.4	554.1	575.4	685.1	701.0	913.7	1068.5	1055.3	1150.0	839.4	621.3
55°	622.9	670.8	684.9	855.2	883.6	1179.0	1339.7	1363.2	1369.0	1085.1	730.4
57.5°	786.8	861.0	863.7	1043.6	1048.5	1486.2	1742.0	1793.8	1734.7	1371.1	902.4
60°	921.8	1008.8	979.6	1224.6	1175.5	1734.7	1937.6	1996.3	1886.7	1615.6	1022.6
62.5°	1005.4	1089.4	1051.0	1351.9	1251.8	1841.3	2054.5	2114.8	1994.2	1745.5	1115.0
65°	1067.8	1161.0	1101.9	1419.7	1251.6	1850.9	2126.6	2177.5	2048.5	1782.8	1142.2
67.5°	1069.0	1152.7	1078.9	1395.5	1168.4	1699.7	2014.0	2046.2	1903.0	1650.4	1061.3
70°	934.5	994.6	912.8	1177.8	942.5	1290.0	1572.8	1611.0	1466.9	1268.8	822.3
72.5°	782.0	805.5	724.4	942.0	738.2	976.2	1202.3	1216.6	1140.5	950.4	635.6
75°	614.1	605.1	563.0	702.3	561.2	691.7	944.3	930.5	888.6	699.4	485.0
77.5°	409.7	392.9	395.1	481.8	392.1	457.6	687.6	688.1	673.5	518.6	345.9
80°	249.9	250.5	243.6	305.6	258.8	304.2	473.9	458.3	458.7	342.0	242.2
82.5°	195.5	198.7	190.0	220.2	203.8	242.0	309.7	318.3	309.0	251.2	178.4
85°	192.0	194.8	185.8	204.5	193.7	231.2	291.3	290.6	285.6	233.0	168.6
87.5°	175.9	179.2	172.5	185.6	177.3	214.1	268.1	264.6	259.8	219.2	160.9
90°	148.5	154.7	150.1	166.3	154.8	184.2	233.1	231.7	229.3	193.7	143.2
92.5°	135.0	136.3	132.9	147.6	134.9	161.4	207.0	202.6	197.1	168.1	122.0
95°	120.9	120.4	117.2	129.0	117.7	135.0	175.9	169.2	166.3	141.9	101.8
97.5°	96.9	97.0	95.5	103.6	95.5	107.8	132.0	129.6	123.9	106.1	78.0
100°	84.8	85.4	84.3	90.7	83.8	91.7	109.9	109.4	104.8	90.5	68.1
102.5°	80.2	80.4	81.8	85.7	79.2	85.0	100.2	100.4	97.4	84.3	64.0
105°	77.1	76.9	78.0	81.1	75.5	79.7	93.7	93.7	89.4	79.5	60.6
107.5°	74.6	74.2	76.0	78.7	74.8	76.0	86.8	87.5	83.4	74.1	57.6
110°	71.8	71.6	74.6	76.5	72.8	73.0	82.4	81.8	78.1	72.1	56.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	72.8	73.9	77.2	71.8	66.3	66.6	73.9	*74.8*	72.1	65.9	53.9
115°	71.9	73.0	77.4	69.6	61.5	63.6	69.6	*70.4*	66.5	61.3	50.7
117.5°	68.8	69.1	71.8	69.8	61.3	63.8	66.8	*68.1*	65.2	61.3	51.3
120°	81.3	78.7	78.7	75.7	66.1	70.5	76.2	*77.2*	74.6	67.3	51.1
122.5°	74.8	73.9	74.1	70.2	65.4	69.1	75.8	*77.6*	75.3	68.1	51.1
125°	58.9	59.0	58.2	59.4	57.4	58.7	62.2	*65.0*	62.9	59.0	48.6
127.5°	53.6	53.4	52.3	57.6	51.6	54.1	57.4	*59.0*	56.9	52.5	44.0
130°	52.1	52.1	55.1	60.6	57.1	56.0	54.8	*56.4*	56.0	53.2	44.0
132.5°	48.8	49.0	53.4	60.5	59.0	54.1	49.7	*50.6*	52.1	52.9	46.5
135°	48.8	48.3	46.8	48.4	47.5	48.8	47.5	*48.8*	49.1	48.8	40.7
137.5°	52.0	51.6	48.1	46.0	46.1	50.0	50.2	*50.7*	50.2	47.4	39.4
140°	50.9	49.7	47.2	46.3	46.5	50.6	52.1	*52.5*	52.0	46.5	37.1
142.5°	49.1	49.1	49.8	50.9	52.5	71.4	66.5	*71.1*	71.2	65.6	38.2
145°	70.5	71.2	69.1	66.8	72.5	85.9	80.8	*85.7*	89.1	82.9	52.7
147.5°	63.6	64.7	63.5	61.5	68.9	69.1	65.9	*66.5*	67.3	68.8	53.2
150°	45.1	43.8	45.8	44.4	51.8	51.4	47.0	*48.1*	50.0	50.2	42.4
152.5°	33.4	32.9	32.5	32.3	37.3	34.3	32.7	*32.2*	32.5	32.3	30.4
155°	29.5	29.5	29.3	30.2	32.9	30.8	29.2	*29.3*	28.5	27.9	26.9
157.5°	23.0	22.4	23.0	24.6	25.6	23.7	23.2	*22.8*	22.6	21.7	22.1
160°	18.9	18.9	19.3	20.5	21.2	19.8	18.7	*18.4*	18.4	18.0	19.3
162.5°	16.1	16.1	16.4	16.8	17.1	16.4	16.1	*16.1*	15.9	15.9	17.1
165°	13.4	13.4	13.6	14.3	14.5	14.1	14.0	*14.1*	14.1	14.8	15.9
167.5°	12.4	12.4	12.5	12.9	13.1	12.9	13.4	*14.0*	14.5	15.2	15.6
170°	11.8	11.8	12.0	12.2	12.5	12.9	14.0	*14.3*	14.5	14.3	14.3
172.5°	12.2	12.2	12.2	12.5	12.9	13.8	14.7	*14.7*	14.3	14.0	14.0
175°	12.4	12.2	12.4	12.7	13.3	13.8	14.1	*14.5*	14.5	14.3	14.3
177.5°	12.2	12.2	12.4	12.5	12.5	12.5	12.7	*12.9*	12.9	13.1	13.3
180°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	*12.0*	12.0	12.0	12.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
2.5°	92.4	87.3	64.7	43.0	52.7	76.9	89.6	84.0	62.6	36.1	30.6
5°	37.8	42.4	49.5	47.4	42.6	35.0	26.3	26.2	36.2	44.0	44.7
7.5°	36.4	33.4	31.6	35.0	32.7	22.6	19.1	15.9	17.0	24.9	23.9
10°	44.9	43.8	40.8	33.4	24.6	20.3	19.1	19.4	20.9	18.7	18.6
12.5°	50.0	47.4	40.8	38.7	32.9	23.3	19.3	17.9	19.1	23.9	25.8
15°	54.8	50.9	42.8	35.9	29.5	24.2	20.7	18.0	16.1	14.0	13.8
17.5°	59.0	54.1	45.1	37.3	29.3	24.2	20.0	15.7	13.6	12.9	12.9
20°	64.2	59.6	48.1	38.9	29.5	23.7	19.3	15.6	13.6	12.9	12.9
22.5°	71.1	63.5	51.3	39.6	29.9	23.5	18.9	15.9	14.1	13.1	13.1
25°	73.0	67.2	53.4	41.9	31.3	24.4	19.8	16.4	14.5	13.6	13.4
27.5°	74.4	70.0	57.4	43.8	32.9	26.2	21.2	17.1	14.8	14.0	13.8
30°	79.9	76.0	61.9	46.7	35.0	27.9	22.4	18.2	15.6	14.1	13.8
32.5°	91.6	86.1	68.4	49.5	37.6	29.9	24.0	19.3	16.3	14.5	14.1
35°	113.8	109.4	85.7	55.3	40.5	32.3	26.0	20.7	17.1	15.0	14.8
37.5°	139.6	132.7	104.1	64.3	42.4	34.5	27.9	22.1	18.0	15.9	15.6
40°	144.1	124.4	92.3	58.7	42.8	35.5	29.7	23.7	19.1	16.6	16.1
42.5°	180.6	152.7	106.9	60.6	43.7	35.5	30.0	24.7	20.2	17.1	16.8
45°	191.1	152.2	106.4	67.7	47.9	36.6	30.2	25.3	21.0	18.0	17.5
47.5°	243.6	186.7	108.0	71.9	52.3	40.3	31.5	25.6	21.2	18.6	18.4
50°	348.2	249.6	129.9	86.8	62.7	47.0	35.4	26.9	21.6	19.1	18.9
52.5°	430.1	296.4	139.5	103.9	79.9	59.7	42.2	30.0	22.3	19.3	18.9
55°	511.2	353.5	157.1	122.7	95.1	71.9	52.5	35.2	24.0	19.6	19.3
57.5°	634.9	424.4	179.1	141.1	112.8	83.4	58.7	39.8	26.2	20.0	19.4
60°	710.0	449.5	181.4	150.4	122.8	91.6	60.8	41.5	28.8	21.4	20.5
62.5°	777.6	472.1	182.9	154.7	124.6	92.4	61.0	40.1	29.3	23.5	22.4
65°	*795.1*	*453.7*	*184.5*	*156.1*	*121.4*	*87.3*	*58.7*	*38.7*	*27.9*	*25.5*	*25.3*
67.5°	755.5	406.9	173.6	150.8	112.9	78.5	52.9	36.8	27.2	24.7	25.3
70°	588.6	323.1	159.1	138.9	97.6	66.3	47.0	34.3	26.9	23.5	23.0
72.5°	463.8	274.9	160.7	132.4	82.4	58.7	41.5	31.3	25.5	23.0	22.6
75°	361.3	230.3	154.7	114.0	66.8	50.0	36.4	27.9	23.7	22.1	21.9
77.5°	265.0	182.8	127.6	87.8	55.1	41.7	31.8	25.6	22.4	21.0	20.9
80°	173.8	129.2	88.9	70.2	47.5	37.6	29.0	24.0	21.6	20.3	20.2
82.5°	147.8	114.7	79.0	64.5	44.0	36.2	28.5	23.5	21.4	20.0	19.8
85°	142.5	117.5	80.8	66.8	41.9	34.6	27.6	23.2	20.9	19.6	19.4
87.5°	133.8	106.4	78.1	59.9	38.7	31.6	25.8	22.3	20.0	18.9	18.6
90°	119.1	91.0	67.2	51.4	36.8	29.7	24.4	21.2	19.4	18.4	18.0
92.5°	96.2	69.1	52.9	45.4	35.9	29.5	24.2	21.2	19.4	18.4	18.0
95°	80.8	59.2	47.4	41.5	33.4	27.9	23.2	20.5	18.9	17.9	17.9
97.5°	64.0	49.5	42.2	37.3	30.0	25.5	21.9	19.6	18.2	17.1	17.1
100°	56.7	46.0	40.1	35.0	28.5	24.0	21.4	19.1	17.9	16.6	16.6
102.5°	53.9	44.5	39.6	33.2	27.2	23.2	20.5	18.4	17.3	16.1	16.1
105°	52.1	44.0	39.2	32.3	26.0	22.1	19.6	17.5	16.6	15.7	15.6
107.5°	50.4	43.3	39.8	31.8	24.9	21.4	19.6	17.3	16.3	15.6	15.6
110°	49.5	43.7	39.6	31.3	24.6	21.2	19.4	17.5	16.6	15.9	15.7

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

Scaled Data Report

REPORT NUMBER: P1046595
CATALOG NUMBER: FFX-CLB-20-722-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	47.2	41.7	37.8	29.7	24.0	20.7	18.7	17.3	16.1	15.4	15.2
115°	44.9	38.4	34.6	28.3	22.8	20.0	18.2	16.8	15.6	15.0	15.0
117.5°	45.8	37.5	31.8	27.8	22.4	19.4	17.9	16.4	15.4	15.0	14.8
120°	45.3	39.4	35.7	29.7	22.3	18.9	17.5	16.1	15.2	15.0	15.0
122.5°	43.3	42.6	39.2	30.2	21.6	19.1	17.9	16.6	15.7	15.2	15.2
125°	41.7	41.4	36.6	27.2	22.1	19.8	18.7	17.5	17.0	16.4	16.3
127.5°	38.5	34.6	30.4	26.2	22.4	20.2	19.1	18.4	17.9	17.0	16.8
130°	38.7	35.5	31.3	26.3	21.6	19.8	19.3	18.6	17.7	16.3	16.1
132.5°	42.1	38.7	31.1	24.4	20.7	19.8	19.4	18.6	16.6	15.0	14.8
135°	35.0	32.7	27.6	23.3	21.0	20.5	20.3	18.4	15.6	14.5	14.3
137.5°	34.1	30.8	26.5	23.5	21.9	20.9	20.2	17.7	14.5	13.4	13.1
140°	32.2	29.0	26.0	23.9	21.2	17.7	16.1	14.8	13.4	12.5	12.4
142.5°	32.2	29.2	24.6	21.0	18.4	16.4	15.6	14.5	12.9	11.7	11.3
145°	38.0	34.5	29.7	26.7	23.9	20.9	17.9	14.7	12.0	10.4	10.3
147.5°	43.1	38.9	35.2	30.2	25.6	20.7	16.4	12.9	11.0	10.3	10.3
150°	35.4	31.5	29.5	25.3	21.2	17.0	14.0	12.0	11.0	10.6	10.6
152.5°	26.5	22.3	20.9	18.6	16.1	14.0	12.5	11.5	11.1	11.0	11.0
155°	24.7	21.2	19.4	17.3	14.8	13.1	12.2	11.7	11.3	11.1	11.1
157.5°	21.6	19.6	17.3	15.7	14.0	12.7	12.2	11.8	11.5	11.3	11.3
160°	19.3	17.9	15.7	14.5	13.3	12.7	12.7	12.5	12.0	11.8	11.8
162.5°	17.3	16.8	14.8	13.8	13.3	13.4	14.3	14.1	13.3	12.5	12.4
165°	16.1	15.6	14.1	13.6	13.3	14.0	15.7	15.4	14.0	13.1	13.1
167.5°	15.4	15.0	14.0	13.4	13.6	15.0	16.6	16.8	15.6	14.3	14.1
170°	14.1	14.1	14.0	14.1	14.1	14.8	15.7	16.3	16.3	16.6	16.4
172.5°	14.0	14.1	14.7	14.7	14.5	14.7	15.4	16.3	16.8	17.3	17.5
175°	14.3	14.5	14.8	15.0	15.0	15.4	16.4	17.1	17.5	17.3	17.3
177.5°	13.3	13.4	13.6	14.3	14.7	15.0	16.1	16.4	16.8	17.1	17.1
180°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

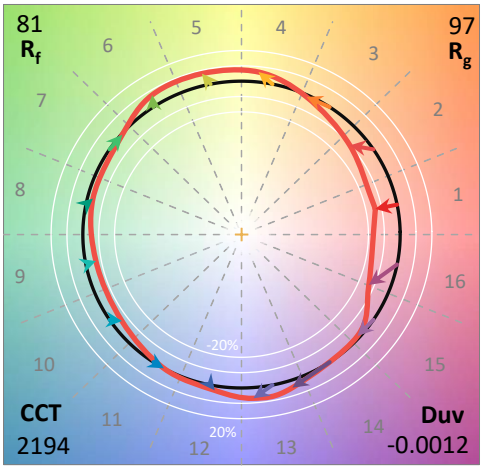
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
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-20-722-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):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

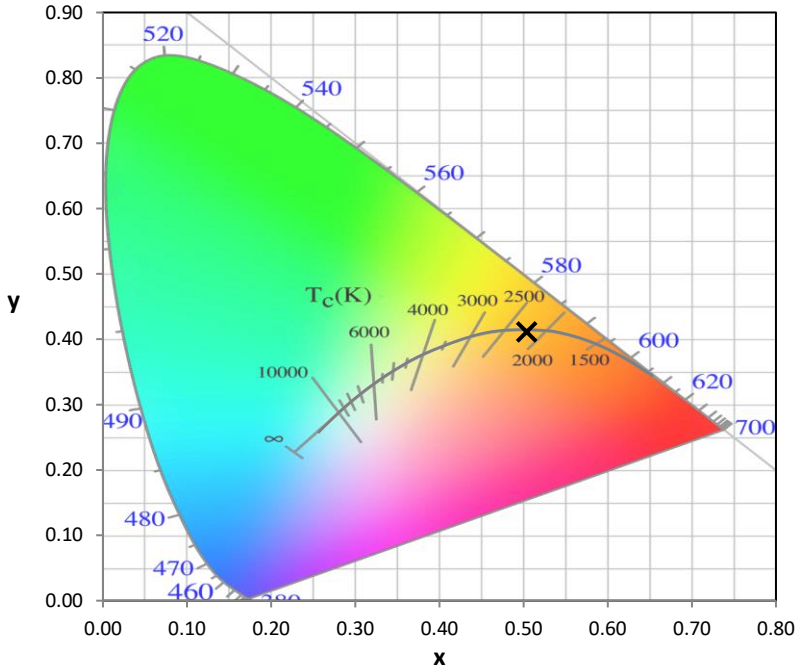
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

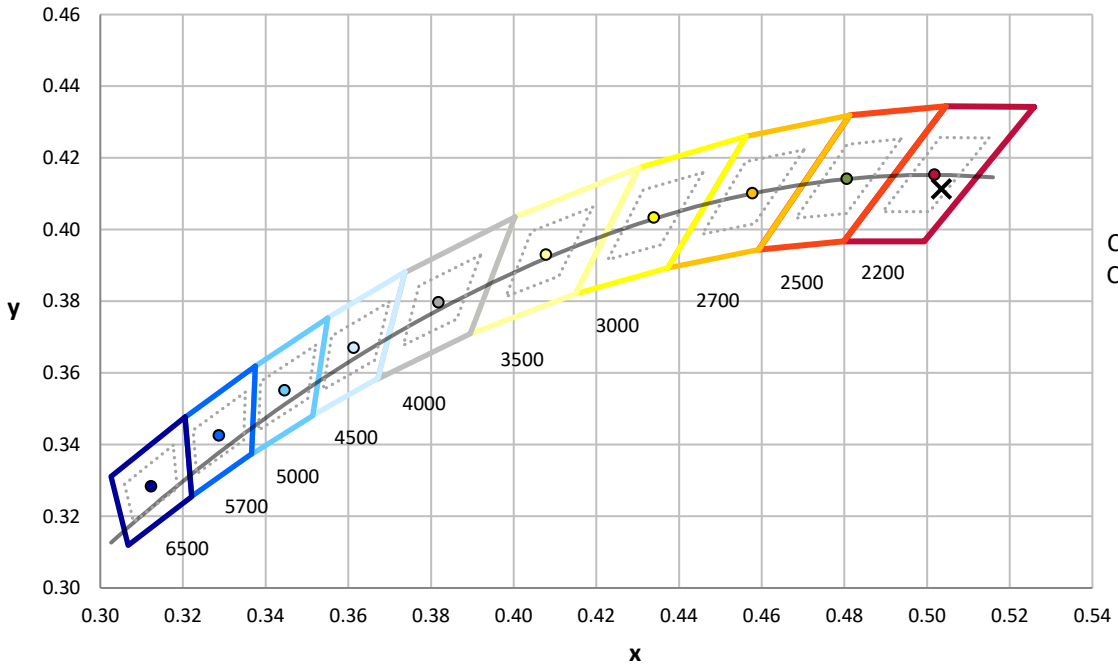
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

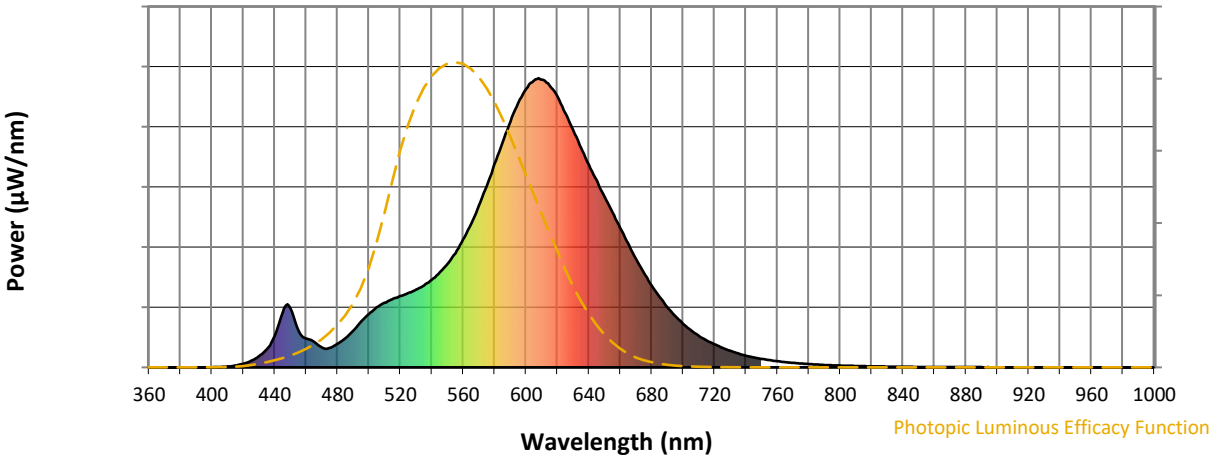


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

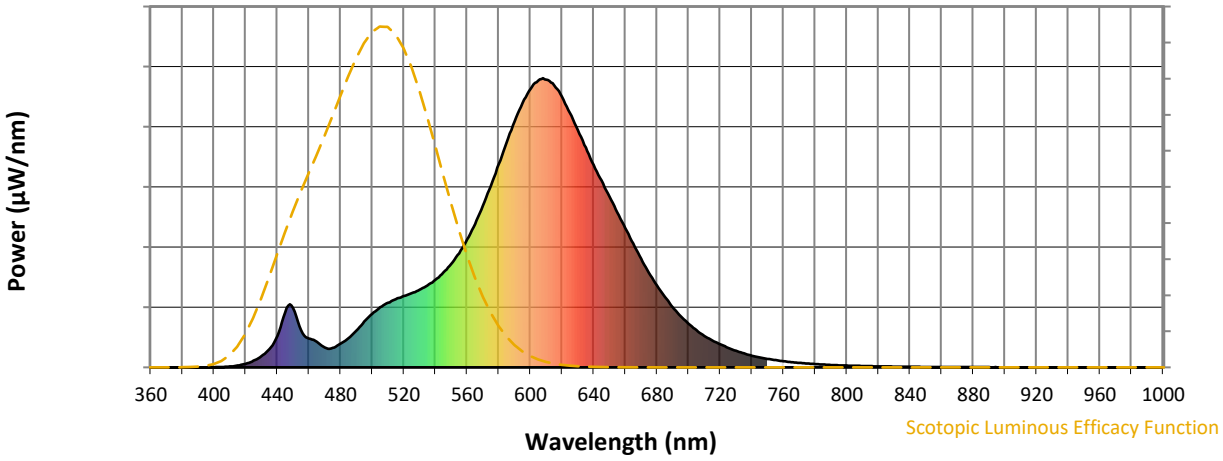


Photopic Lumens: NR

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

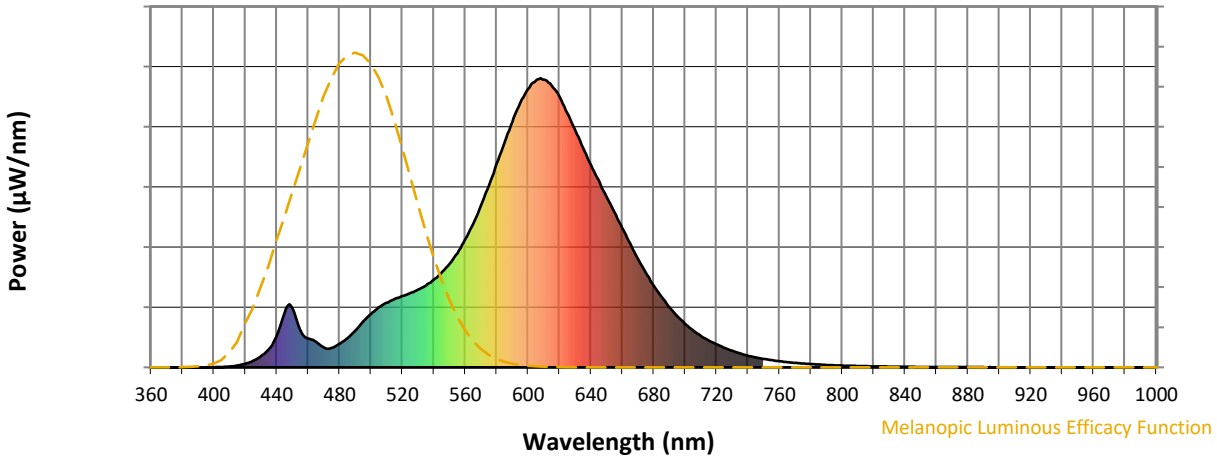


Scotopic Lumens: NR **S/P: 0.96**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

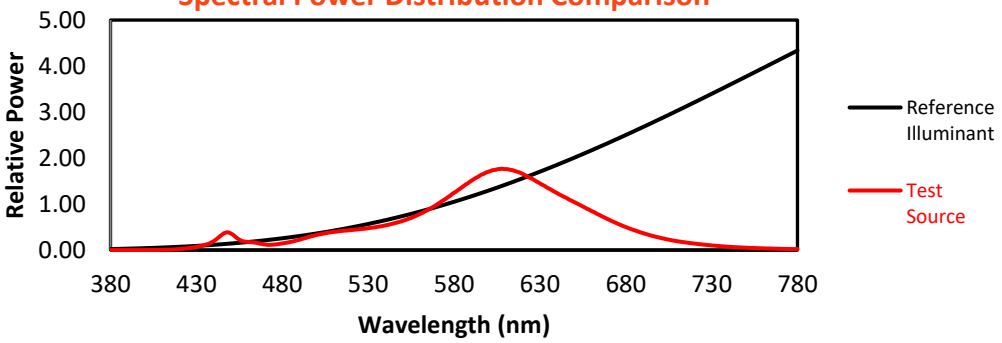
REPORT NUMBER: SP1-2501-332-7

TM-30-18

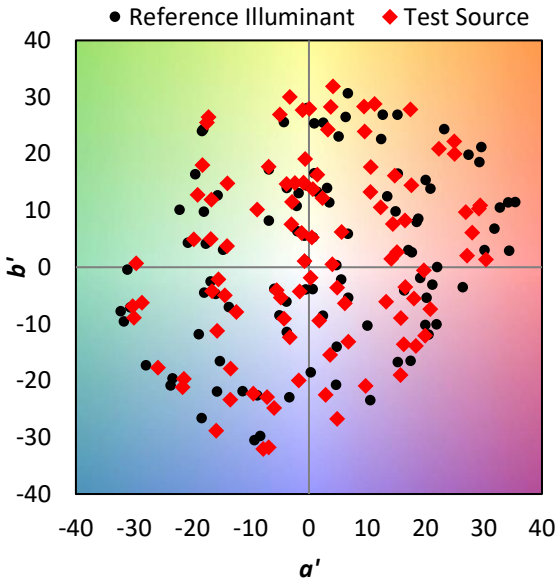
Summary

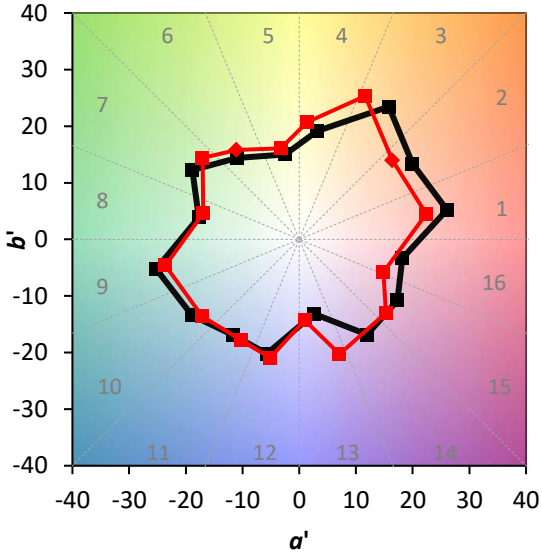
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

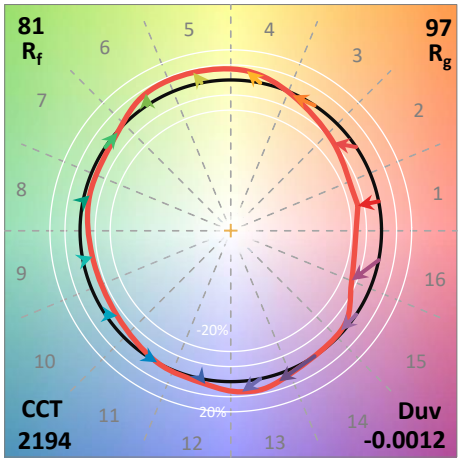
Spectral Power Distribution Comparison

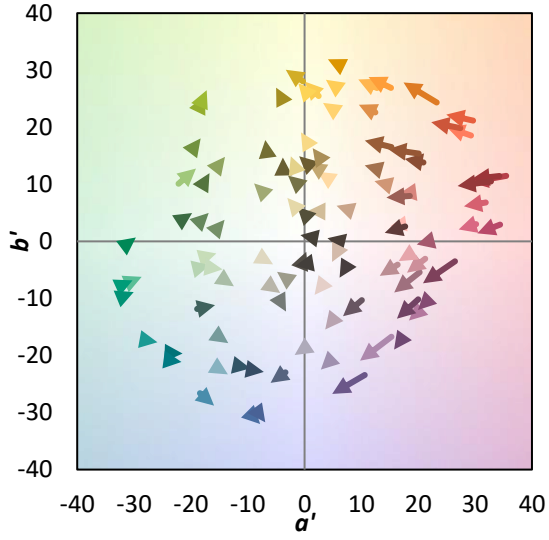


Color Vector Graphics







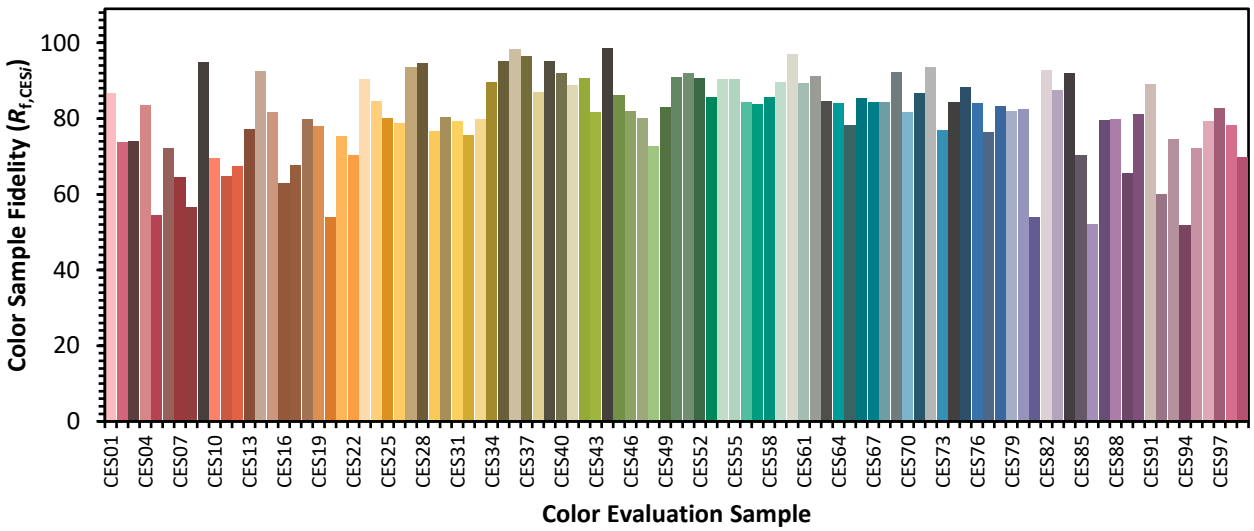


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

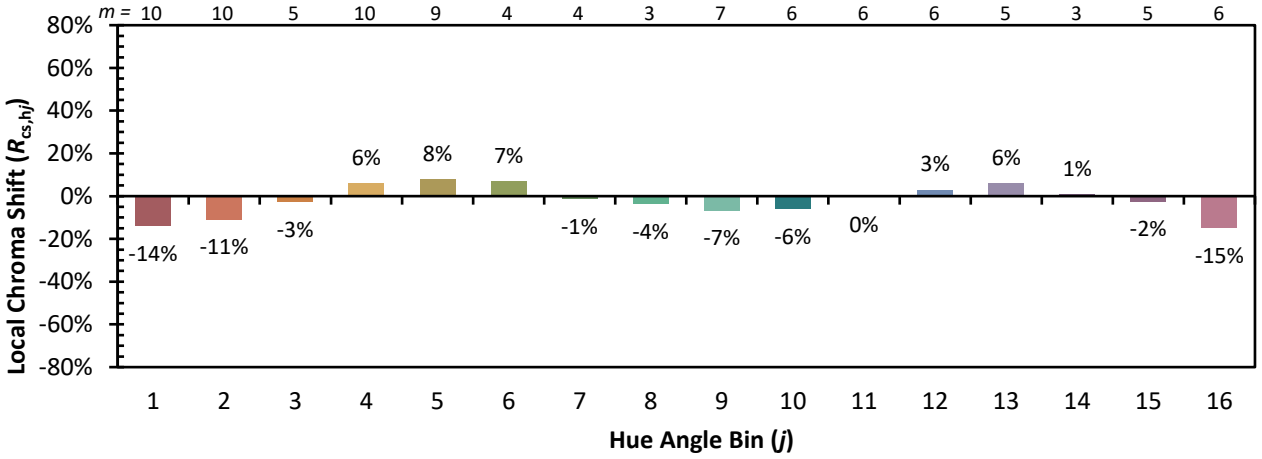
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

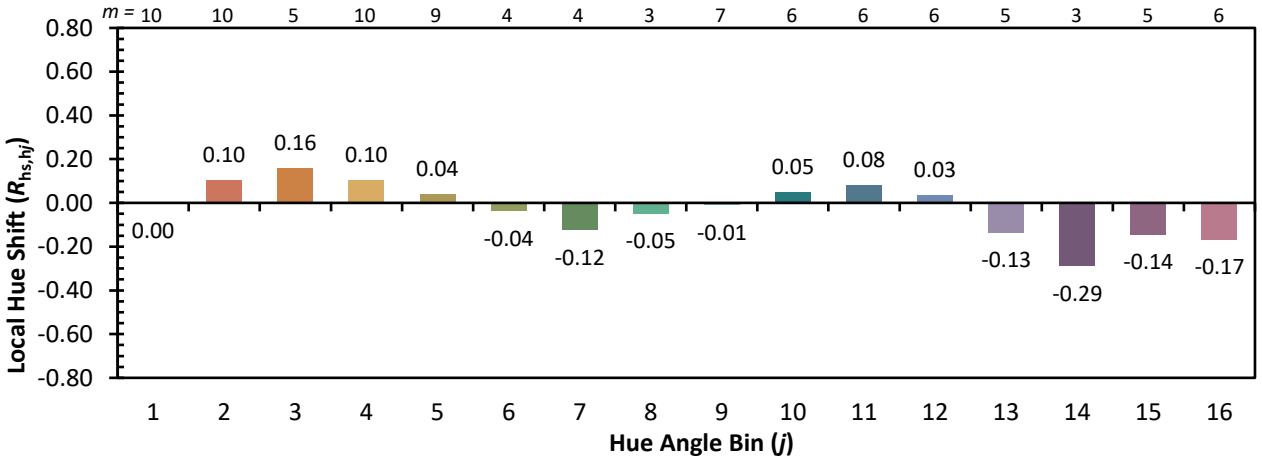


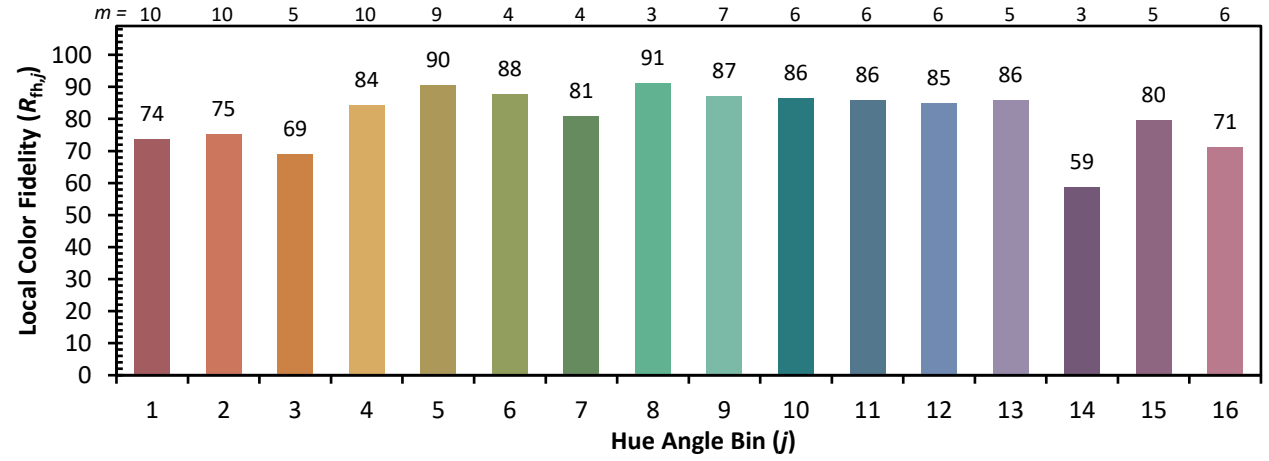
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Color Rendition by Hue-Angle Bin



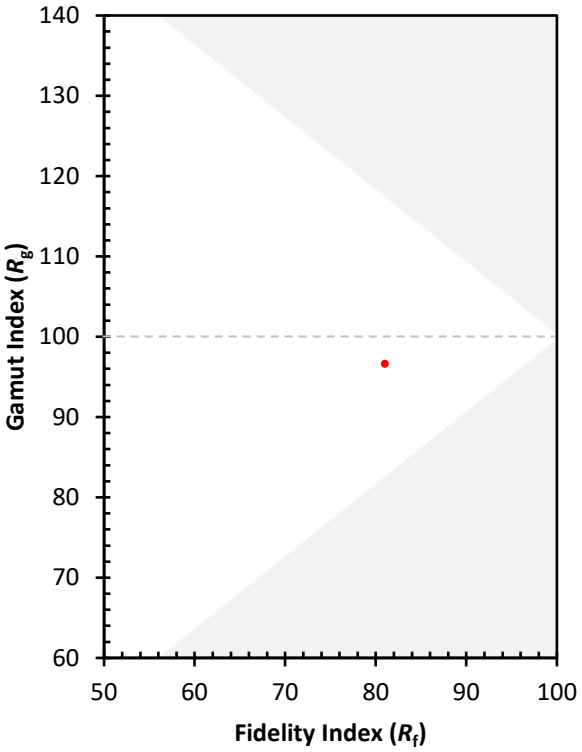


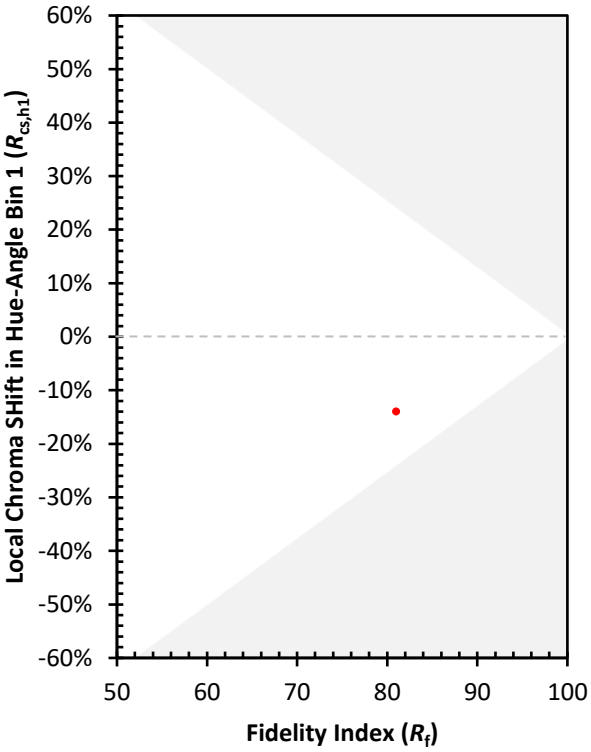


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Measure Comparisons





(END OF REPORT)