

Signify Classified - Internal
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: P856289

Luminaire Tested: **FFX-CLB-20-722-U-FG**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856289
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-20-722-U-FG
Description: FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

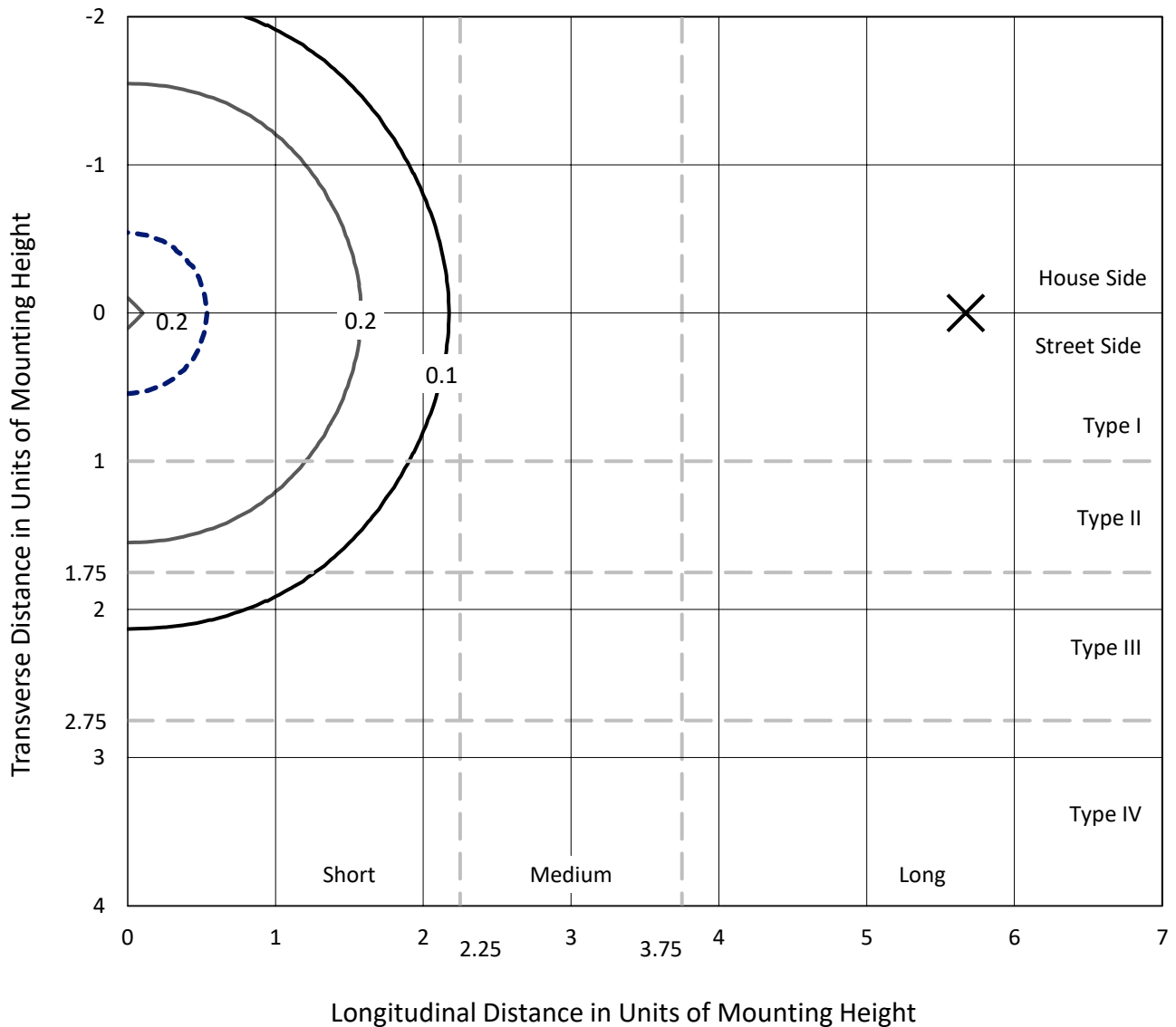
Lumens per Lamp: N/A
Luminaire Lumens: 2861 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1.5')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G2

Input Watts (W): 19.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 9.8%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

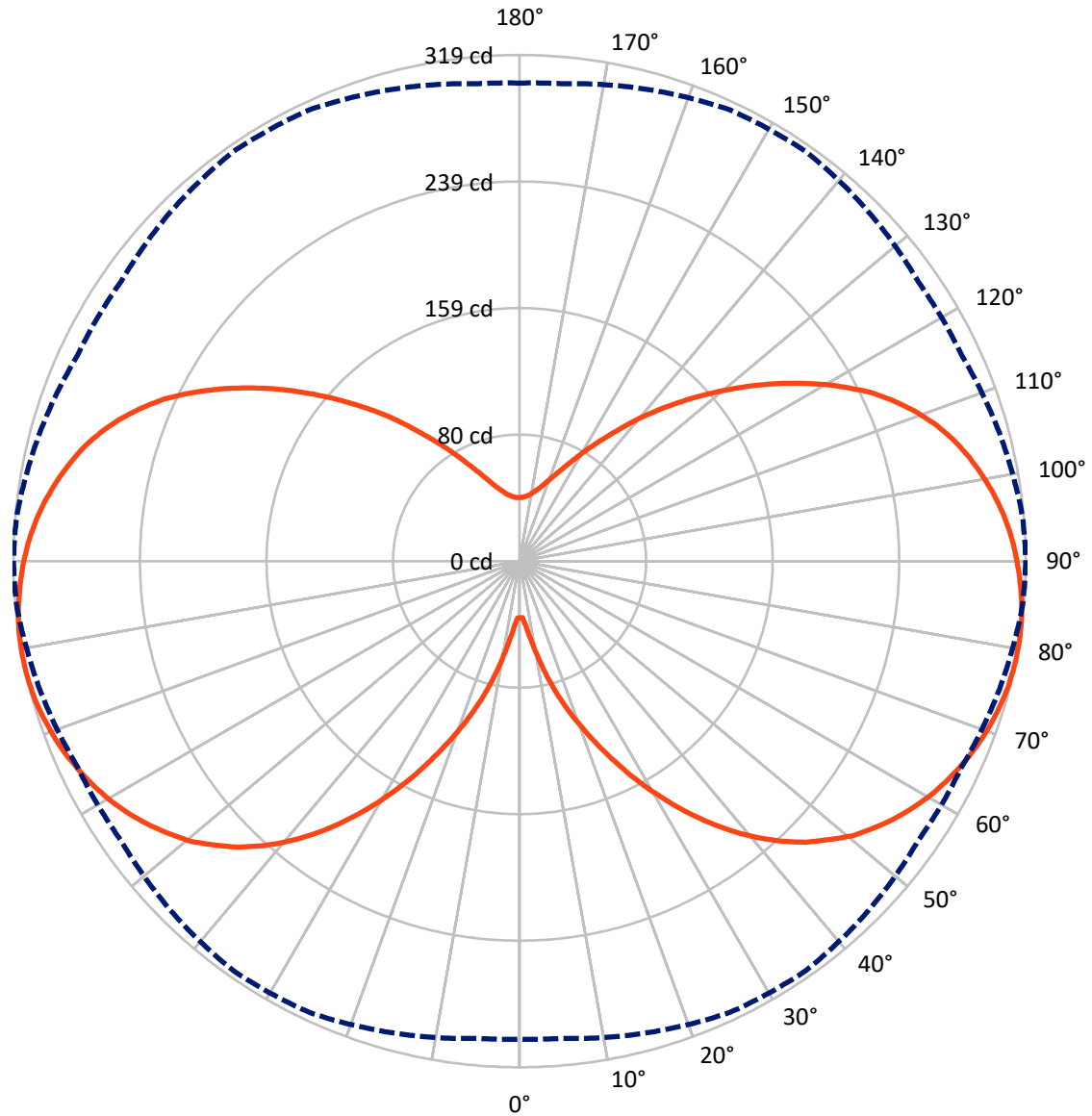
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 80-Deg Vertical

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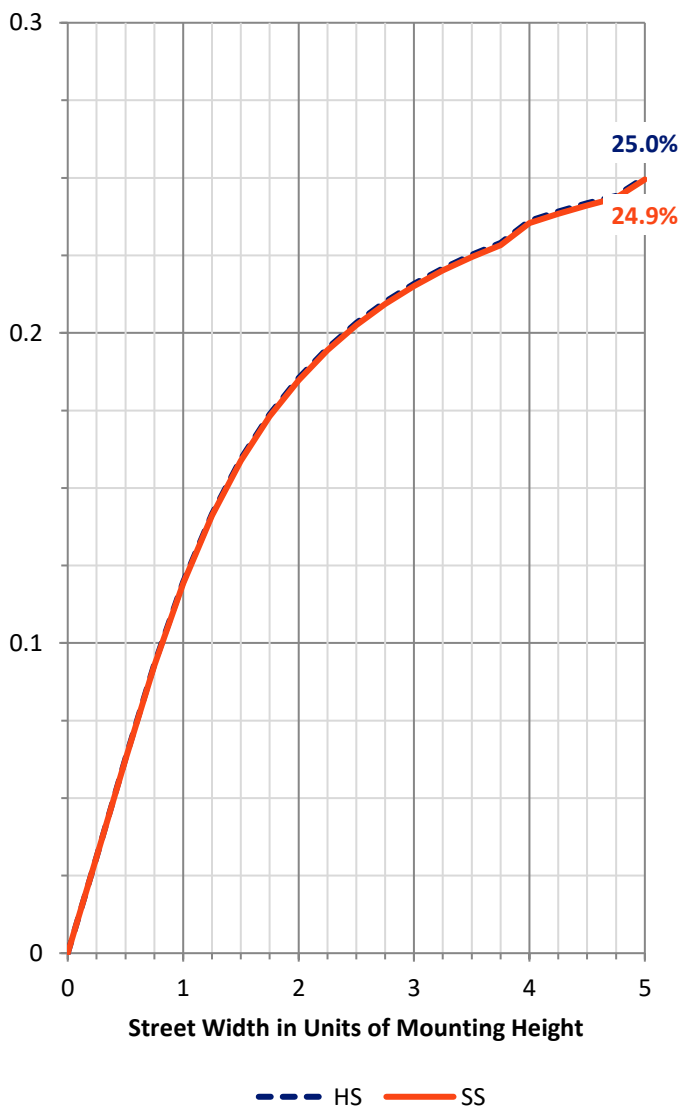
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.0	616.5	1430.5
	% Fixture	28.5	21.5	50.0
Street Side	Lumens	814.0	616.5	1430.5
	% Fixture	28.5	21.5	50.0
Total	Lumens	1628.0	1233.1	2861.0
	% Fixture	56.9	43.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.2
10°-20°	25.0	0.9
20°-30°	65.6	2.3
30°-40°	125.5	4.4
40°-50°	192.9	6.7
50°-60°	252.7	8.8
60°-70°	298.3	10.4
70°-80°	327.2	11.4
80°-90°	336.2	11.8
90°-100°	323.9	11.3
100°-110°	290.4	10.2
110°-120°	236.0	8.2
120°-130°	168.6	5.9
130°-140°	106.7	3.7
140°-150°	59.7	2.1
150°-160°	30.1	1.1
160°-170°	13.7	0.5
170°-180°	4.0	0.1
0°-90°	1628.0	56.9
0°-180°	2861.0	100.0



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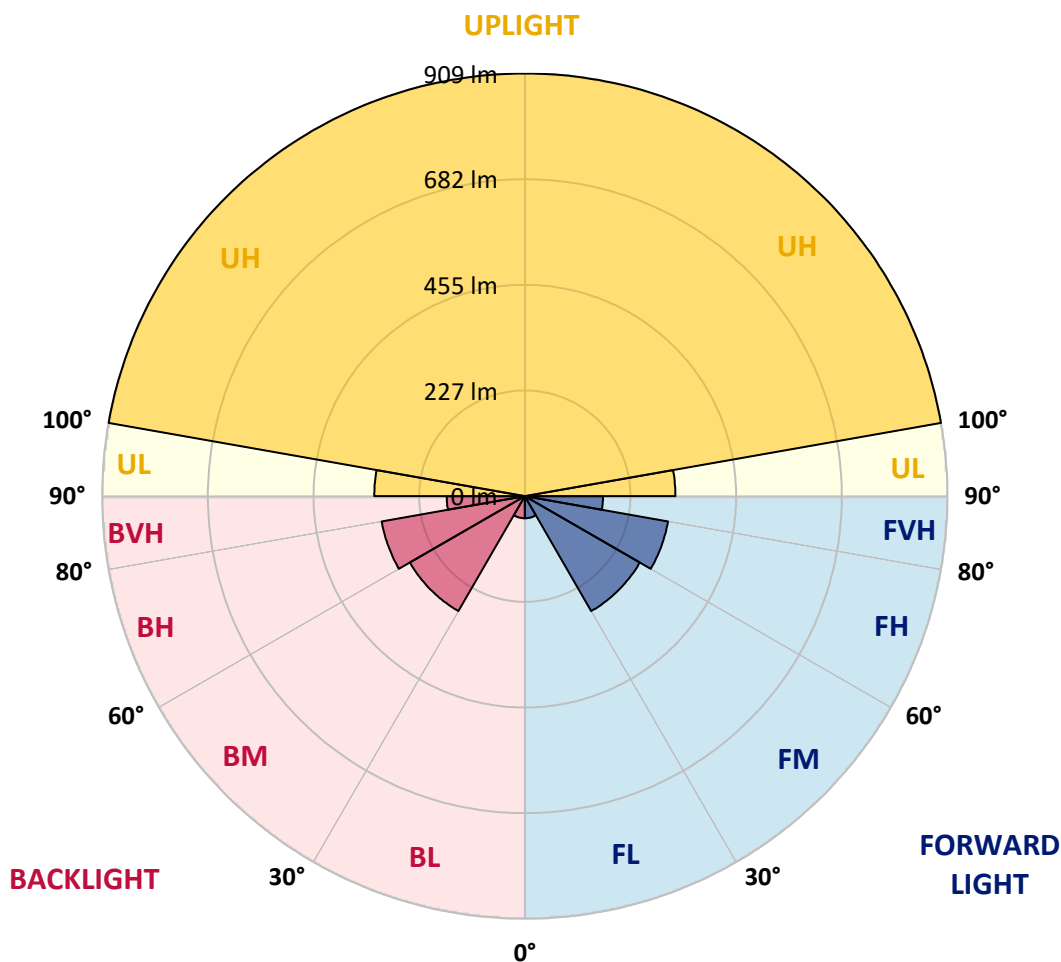
CATALOG NUMBER: FFX-CLB-20-722-U-FG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	47.6	1.7			
FM (30°-60°)	285.6	10.0			
FH (60°-80°)	312.7	10.9			G0/660
FVH (80°-90°)	168.1	5.9			G2/225
BL (0°-30°)	47.6	1.7	B0/110		
BM (30°-60°)	285.6	10.0	B1/1000		
BH (60°-80°)	312.7	10.9	B1/500		G0/660
BVH (80°-90°)	168.1	5.9			G2/225
UL (90°-100°)	323.9	11.3		U3/500	
UH (100°-180°)	909.2	31.8		U4/1000	

BUG Rating: B1-U4-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	37.7	37.7	37.5	37.1	37.0	36.8	36.4	35.9	35.7	35.7	35.7
5°	41.0	41.2	41.2	41.0	41.2	40.8	40.8	40.5	40.7	40.7	40.8
7.5°	49.3	49.3	49.5	49.5	49.6	49.3	49.5	49.3	49.5	49.5	49.3
10°	60.0	60.0	60.4	60.0	60.2	59.9	59.7	59.7	60.2	60.0	59.9
12.5°	72.2	72.5	72.4	72.2	72.5	72.2	71.8	72.0	72.7	72.4	72.2
15°	85.0	85.4	85.7	85.2	85.4	85.2	85.0	85.2	85.9	85.6	85.4
17.5°	98.1	98.2	98.6	97.9	98.1	98.2	98.1	98.2	98.8	98.6	98.4
20°	111.1	111.4	111.8	111.1	111.3	111.4	111.3	111.4	112.2	111.8	111.6
22.5°	124.8	125.0	125.7	124.8	125.2	125.4	125.0	125.4	126.1	125.7	125.5
25°	139.1	138.9	140.0	139.3	139.4	139.8	139.4	139.8	140.7	140.7	140.1
27.5°	153.7	153.7	154.6	154.1	154.4	154.2	154.6	154.9	155.8	156.0	155.5
30°	168.3	168.3	169.7	168.8	169.4	169.5	169.5	169.9	171.0	171.3	170.6
32.5°	182.9	182.9	183.6	183.8	184.2	184.3	184.7	184.7	186.1	186.3	185.9
35°	197.2	197.2	197.9	198.2	199.1	198.8	199.3	199.3	200.9	201.1	200.9
37.5°	210.7	210.9	211.8	212.2	212.9	212.9	213.2	213.6	215.0	215.5	215.3
40°	223.6	224.0	224.7	225.4	226.1	226.1	226.2	226.8	228.4	228.9	228.7
42.5°	235.2	235.4	236.5	237.5	238.2	238.2	238.4	238.7	240.5	241.2	241.2
45°	245.4	246.0	247.4	248.8	249.5	249.3	249.3	249.8	251.8	252.7	252.7
47.5°	254.9	255.6	257.2	258.6	259.3	259.3	259.2	259.7	261.8	262.9	262.3
50°	263.4	263.9	265.7	267.8	268.3	268.3	267.8	268.3	270.6	272.0	272.0
52.5°	270.4	271.0	273.1	275.4	276.1	275.9	275.2	275.7	278.0	279.6	279.4
55°	276.4	277.1	279.4	282.2	282.9	282.4	281.5	282.1	284.5	286.6	286.5
57.5°	281.9	282.4	285.0	288.0	289.1	288.2	287.0	287.5	290.3	292.6	292.8
60°	286.5	287.0	290.0	293.5	294.4	293.3	291.7	292.3	295.4	298.1	298.4
62.5°	290.3	290.9	294.2	298.1	299.3	297.7	295.8	296.3	299.8	302.8	303.0
65°	293.5	294.0	297.9	301.9	303.2	301.4	299.1	299.7	303.5	306.9	307.2
67.5°	296.0	296.7	301.1	305.5	306.5	304.4	301.8	302.3	306.5	310.4	310.8
70°	298.1	299.0	303.5	308.3	309.5	307.1	303.9	304.6	309.3	313.2	313.7
72.5°	299.7	300.5	305.5	310.6	312.0	309.0	305.5	306.2	311.3	315.5	316.0
75°	300.7	301.6	306.9	312.3	313.6	310.4	306.5	307.2	312.5	317.1	317.8
77.5°	301.2	302.1	307.8	313.4	314.6	310.9	306.9	307.6	313.0	318.0	318.7
80°	301.2	301.9	307.8	313.7	314.8	311.1	306.7	307.2	312.9	318.1	318.9
82.5°	300.7	301.4	307.4	313.4	314.4	310.4	305.8	306.5	312.3	317.6	318.5
85°	299.5	300.2	306.2	312.3	313.4	309.0	304.2	304.9	310.8	316.4	317.3
87.5°	297.7	298.6	304.4	310.6	311.5	306.9	302.3	302.7	308.8	314.6	315.3
90°	295.6	296.5	301.9	308.1	309.0	304.4	299.7	300.2	306.2	312.2	312.9
92.5°	293.1	293.9	299.1	304.8	305.8	301.1	296.5	297.2	303.2	309.2	310.0
95°	290.0	290.5	295.4	300.7	301.6	297.4	292.8	293.5	299.5	305.3	306.2
97.5°	286.1	286.5	290.9	295.6	296.7	292.6	288.4	289.1	294.9	300.7	301.8
100°	281.7	281.9	285.8	289.8	290.7	287.3	283.5	284.3	289.8	295.8	296.5
102.5°	276.6	276.6	279.8	283.1	284.2	281.3	278.0	278.9	284.2	289.8	290.7
105°	271.0	270.4	272.7	275.4	276.6	274.5	272.0	272.7	277.7	283.1	284.2
107.5°	263.9	263.4	265.0	267.3	268.5	266.9	265.0	266.0	270.3	275.4	276.4
110°	256.0	255.3	256.0	257.8	259.2	258.1	257.1	257.9	262.0	266.7	267.4



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 CATALOG NUMBER: FFX-CLB-20-722-U-FG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	246.8	246.0	246.1	247.4	248.6	248.4	247.7	249.1	252.5	256.3	257.2
115°	236.3	235.4	234.9	235.6	236.6	237.3	238.0	238.9	241.6	244.7	246.1
117.5°	225.2	223.8	222.9	222.9	224.1	225.4	226.6	227.8	229.6	232.6	233.1
120°	212.3	211.5	210.2	210.2	211.3	212.5	214.4	215.9	216.9	219.0	219.7
122.5°	199.7	198.4	197.2	197.2	197.9	199.7	202.3	203.5	204.1	205.3	205.8
125°	186.8	185.4	184.0	184.0	184.7	186.5	189.4	190.5	190.9	191.4	191.9
127.5°	173.8	172.4	171.1	170.6	171.7	173.1	176.1	177.5	177.6	177.6	178.0
130°	160.7	159.7	158.5	157.9	159.0	160.2	163.6	165.0	164.3	164.3	164.4
132.5°	148.4	147.4	146.1	145.8	146.5	148.1	151.1	152.3	151.8	151.1	151.2
135°	136.4	135.6	134.0	133.8	134.9	135.6	138.4	139.6	139.1	138.4	138.6
137.5°	125.0	124.1	122.7	122.5	123.6	124.5	126.6	127.8	127.1	126.4	126.6
140°	114.1	113.0	112.0	111.8	112.5	113.4	115.3	116.0	115.3	114.8	115.0
142.5°	103.9	103.2	101.9	101.9	102.3	103.0	104.6	105.3	104.6	103.9	103.5
145°	94.2	93.3	92.6	92.4	92.8	93.5	94.5	95.3	94.5	94.0	93.7
147.5°	85.6	84.9	84.2	84.2	84.3	84.9	85.7	85.9	85.4	85.0	84.7
150°	77.6	76.9	76.6	76.4	76.6	76.8	77.5	77.8	77.3	76.9	76.6
152.5°	70.4	69.9	69.5	69.7	69.7	69.9	70.1	70.2	69.7	69.7	69.4
155°	64.1	63.7	63.4	63.6	63.6	63.6	63.7	63.7	63.4	63.4	63.2
157.5°	58.8	58.5	58.3	58.5	58.5	58.3	58.5	58.5	58.1	58.1	57.9
160°	54.2	53.9	53.9	53.9	53.9	53.7	54.1	53.9	53.7	53.5	53.5
162.5°	50.5	50.2	50.2	50.4	50.2	50.2	50.2	50.2	50.0	50.0	49.8
165°	47.5	47.2	47.2	47.4	47.2	47.2	47.2	47.2	47.0	47.0	47.0
167.5°	45.1	44.9	44.9	44.9	44.9	44.7	44.9	44.9	44.7	44.7	44.7
170°	43.1	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	42.8	42.8
172.5°	41.9	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.6	41.6	41.6
175°	41.0	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.7	40.7
177.5°	40.5	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.1	40.1
180°	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1

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: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

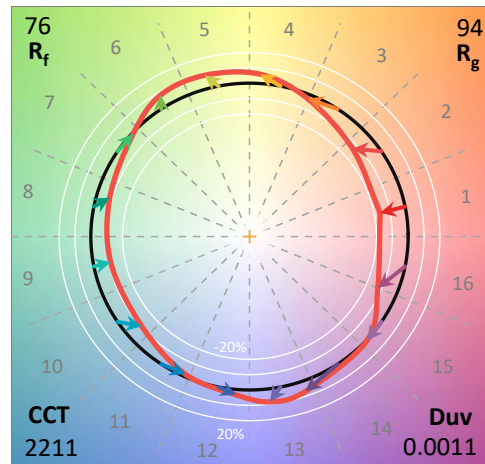
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2200K 4-step quadrangle

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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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.87

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

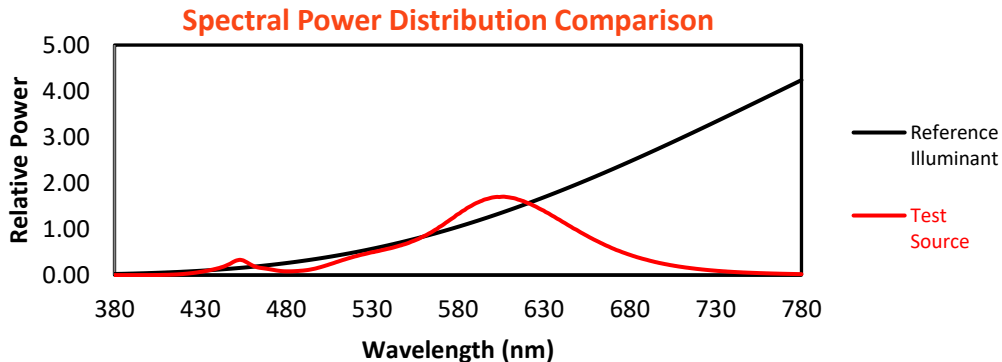
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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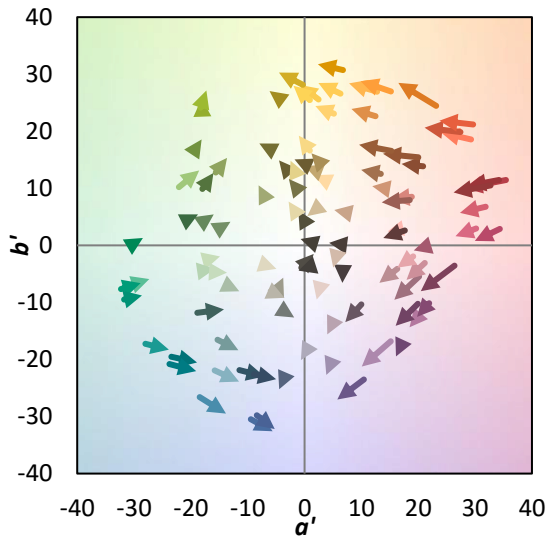
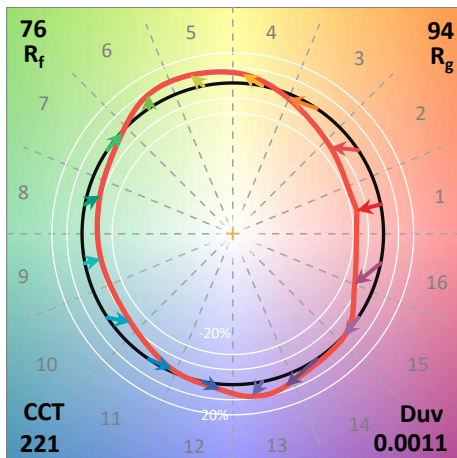
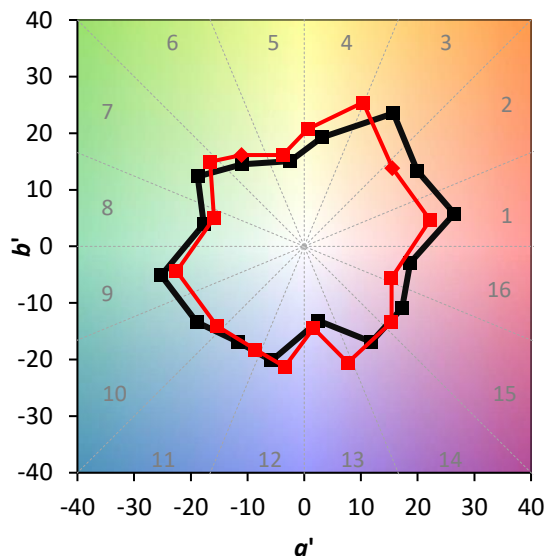
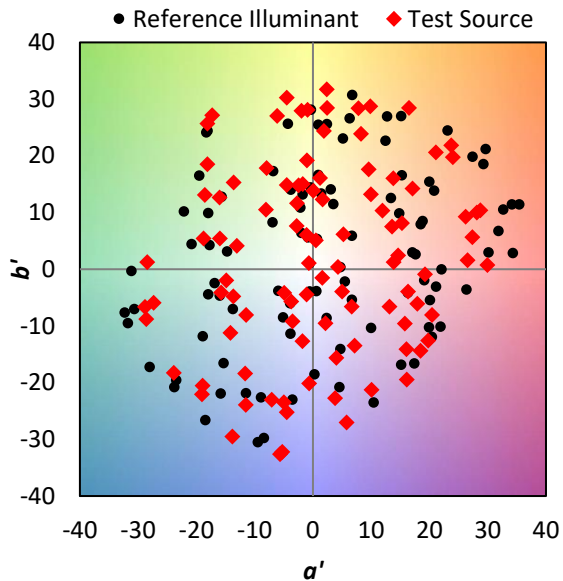
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Summary

$R_f = 76.1$
 $R_g = 94.3$
 CIE $R_a = 71.4$
 $R_9 = -29.2$



Color Vector Graphics

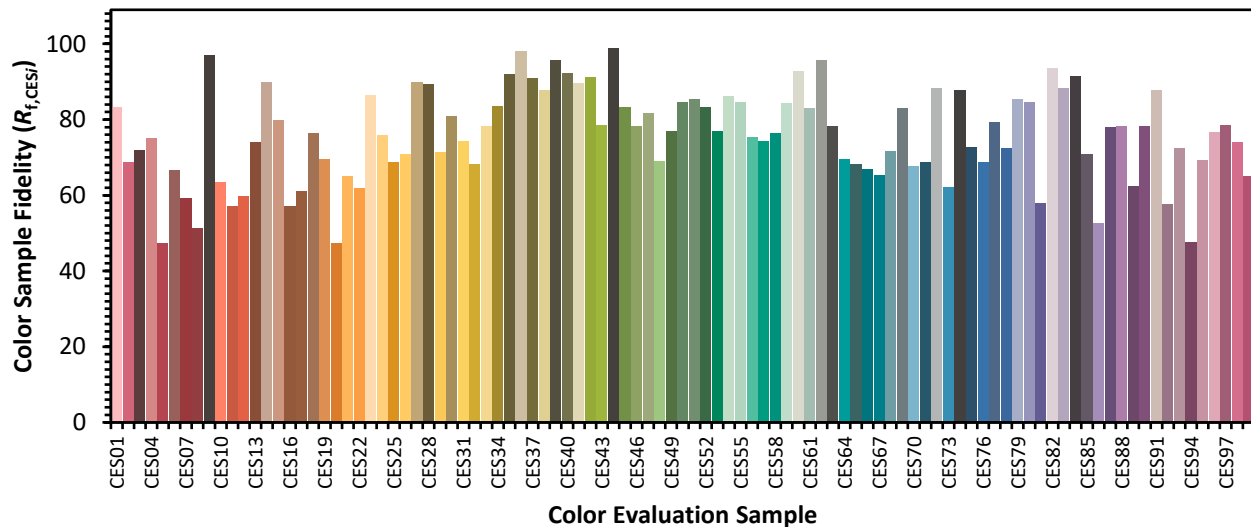


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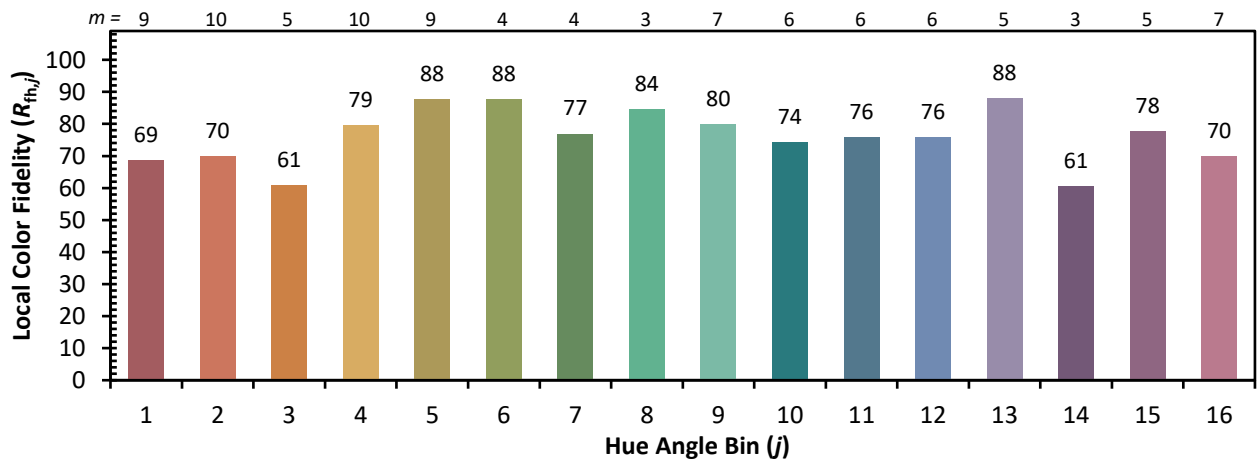
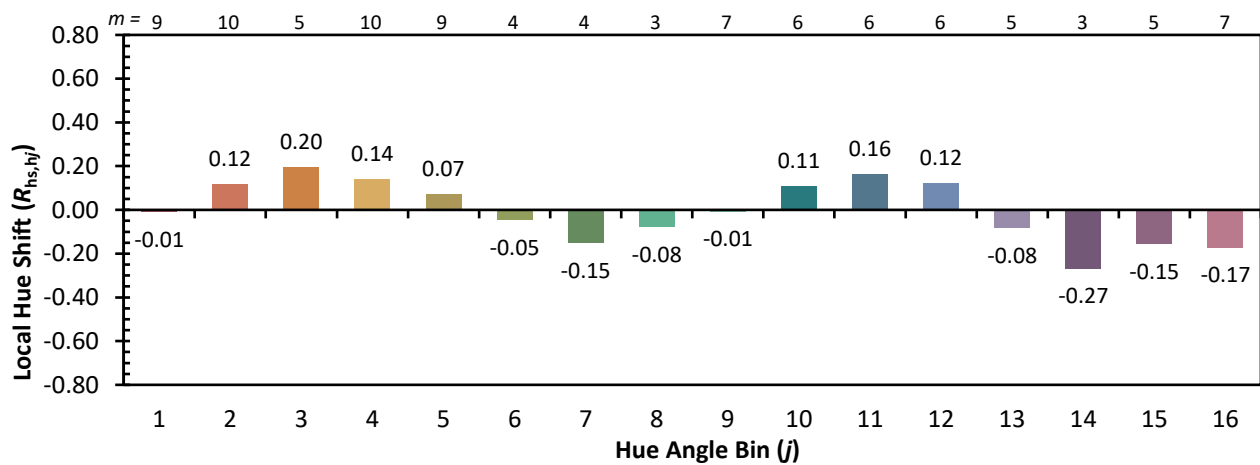
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Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 71	CES51 = 85	CES76 = 69
CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



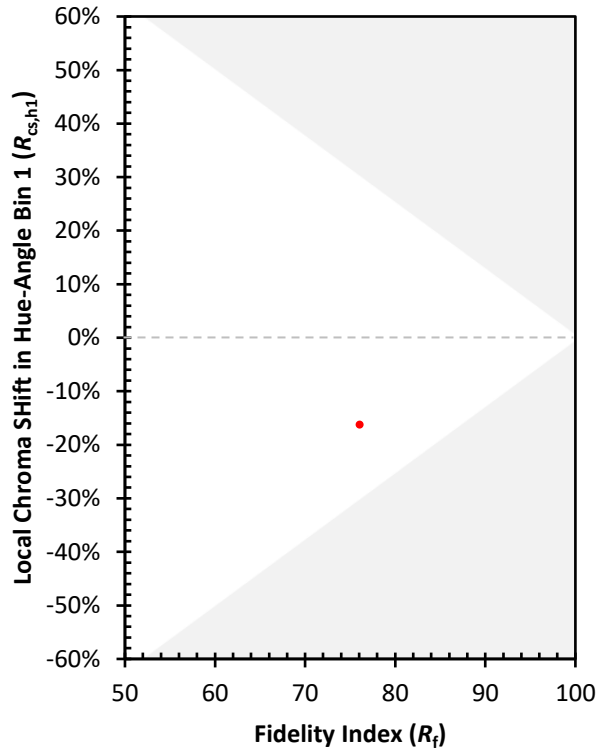
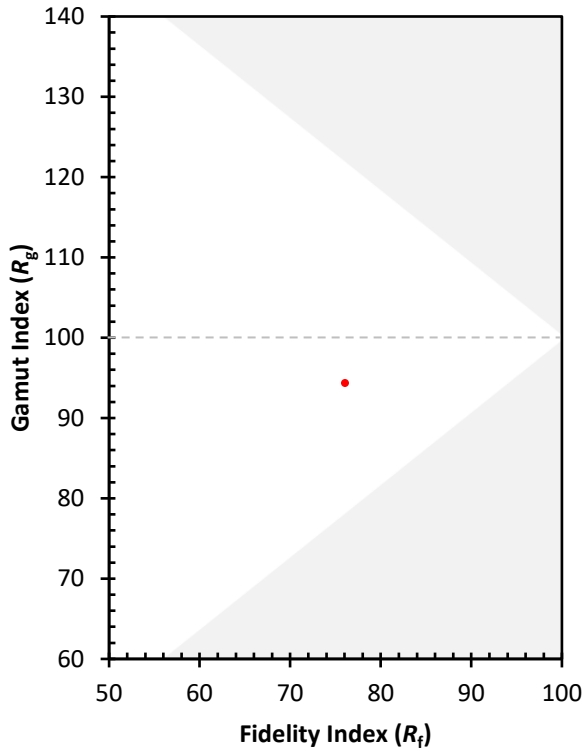
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)