

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: P856352

Luminaire Tested: **FFX-CLB-20-730-U-VM8**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856352
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-20-730-U-VM8
Description: FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

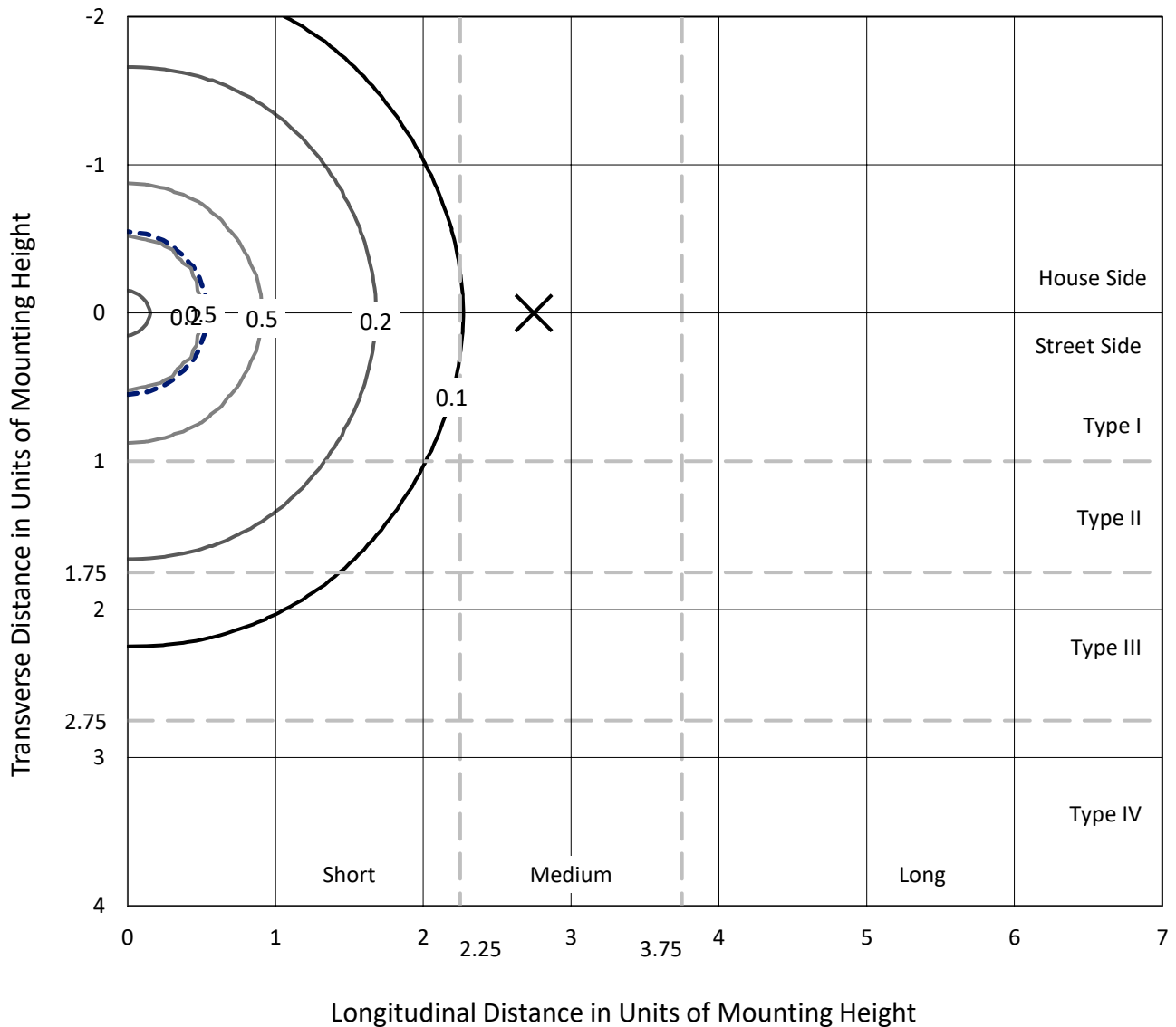
Lumens per Lamp: N/A
Luminaire Lumens: 3180.5 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type V - Short
BUG Rating: B1 - U5 - G2

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

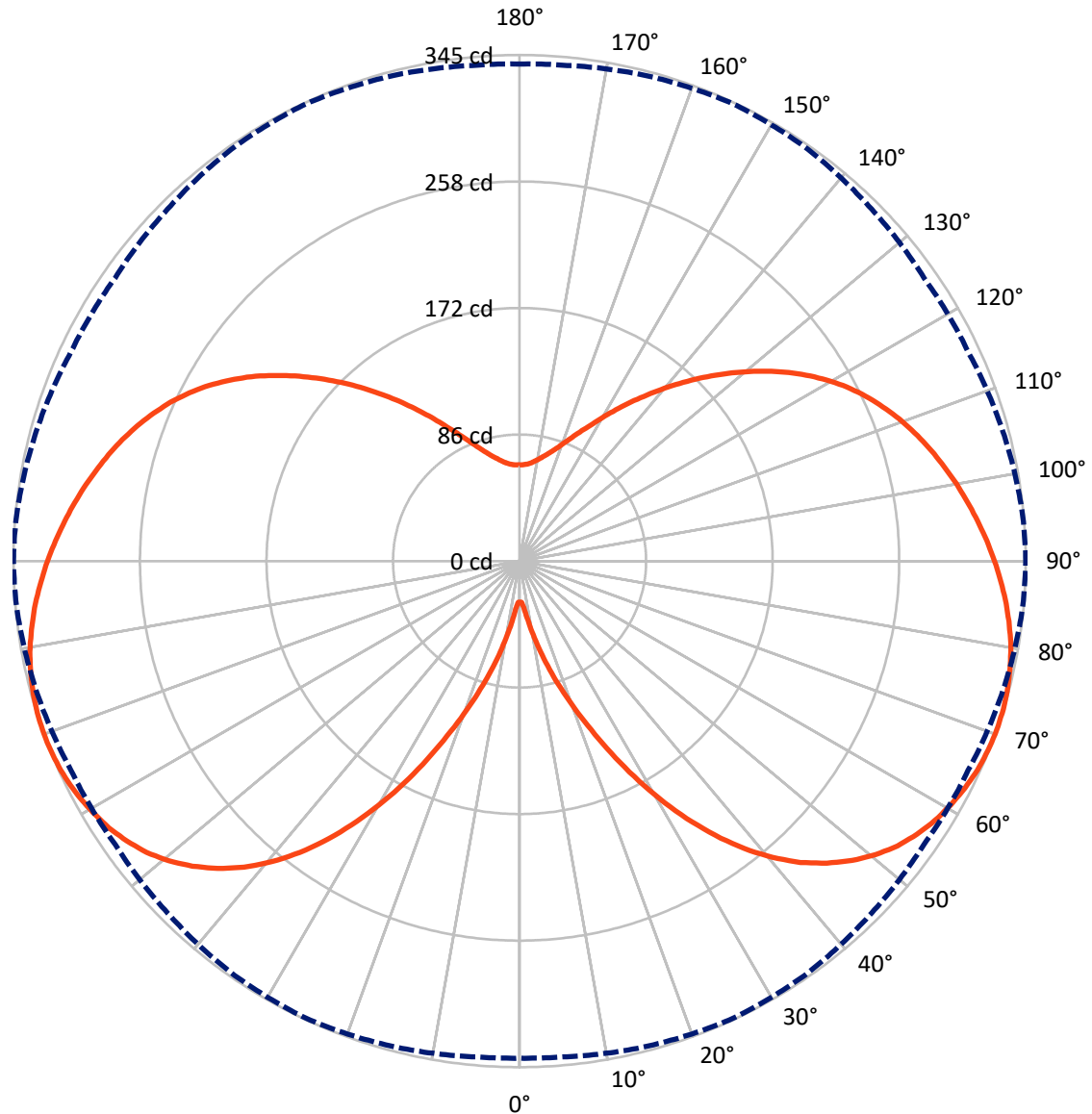
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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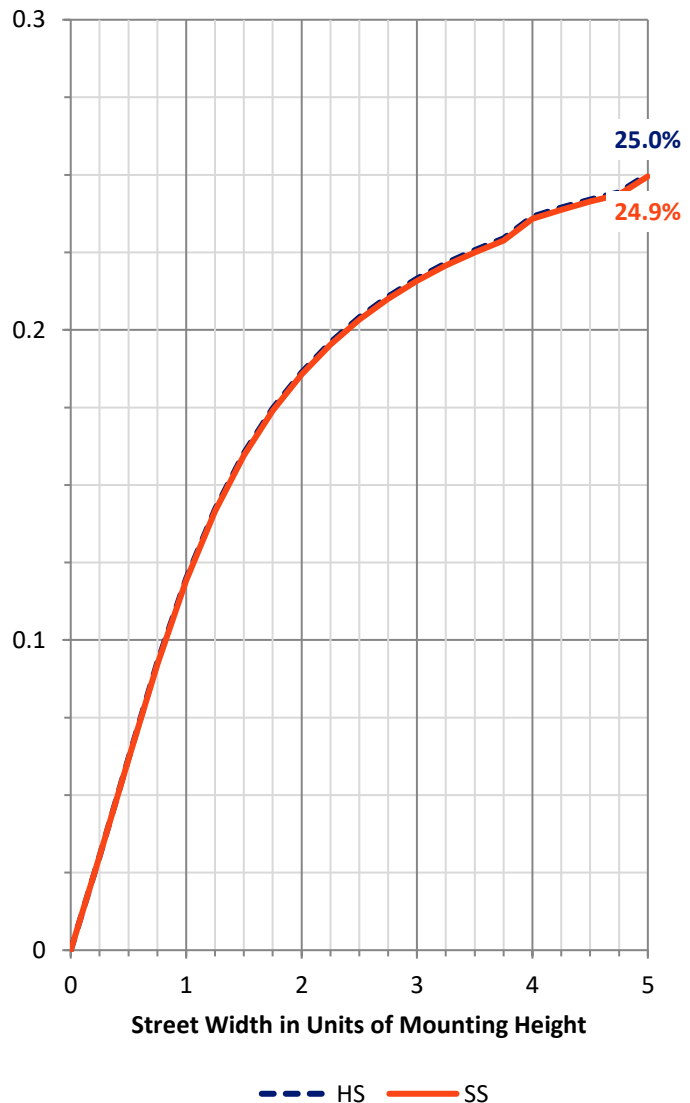
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	900.7	689.6	1590.2
	% Fixture	28.3	21.7	50.0
Street Side	Lumens	900.7	689.6	1590.2
	% Fixture	28.3	21.7	50.0
Total	Lumens	1801.3	1379.1	3180.5
	% Fixture	56.6	43.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	22.8	0.7
20°-30°	67.9	2.1
30°-40°	142.1	4.5
40°-50°	222.9	7.0
50°-60°	289.4	9.1
60°-70°	335.0	10.5
70°-80°	358.6	11.3
80°-90°	358.9	11.3
90°-100°	338.5	10.6
100°-110°	302.8	9.5
110°-120°	254.6	8.0
120°-130°	195.3	6.1
130°-140°	133.6	4.2
140°-150°	81.5	2.6
150°-160°	44.6	1.4
160°-170°	21.6	0.7
170°-180°	6.4	0.2
0°-90°	1801.3	56.6
0°-180°	3180.5	100.0

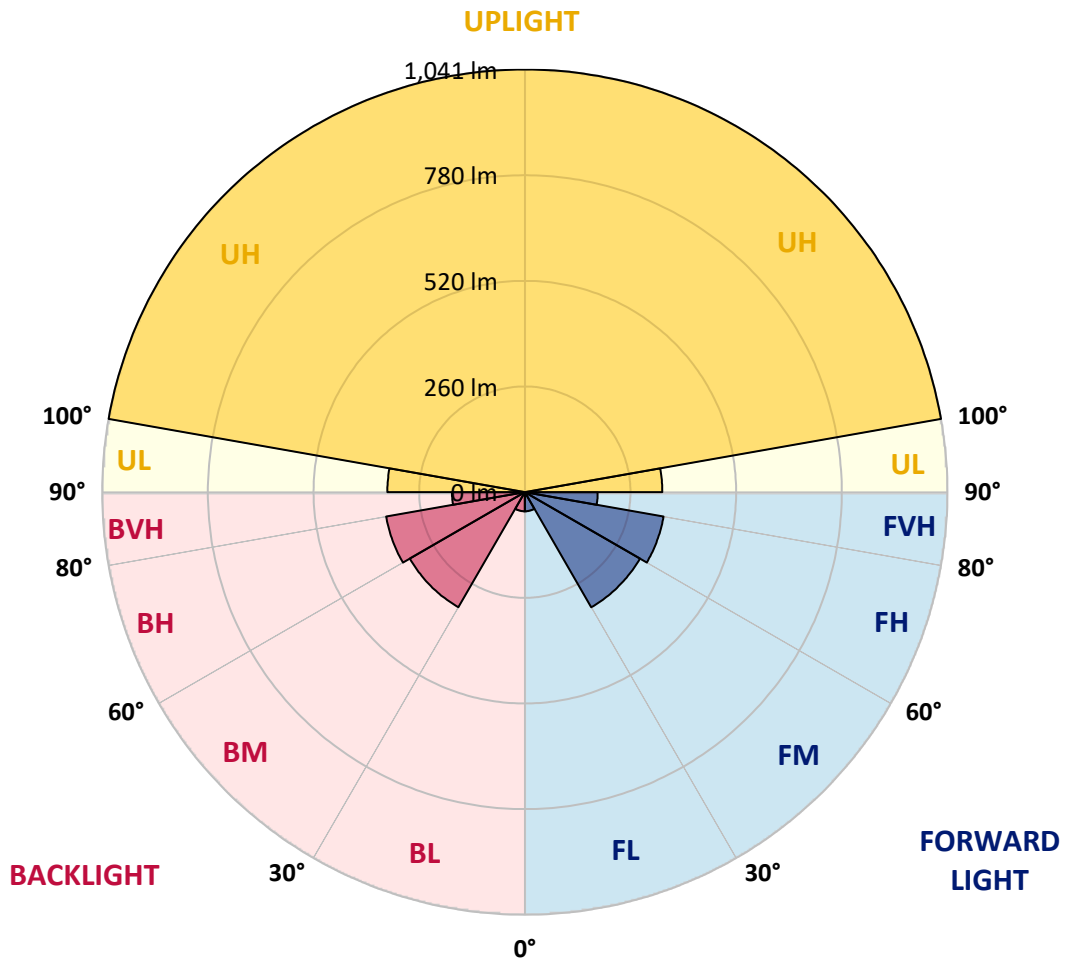


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	47.2	1.5			
FM (30°-60°)	327.2	10.3			
FH (60°-80°)	346.8	10.9			G0/660
FVH (80°-90°)	179.5	5.6			G2/225
BL (0°-30°)	47.2	1.5	B0/110		
BM (30°-60°)	327.2	10.3	B1/1000		
BH (60°-80°)	346.8	10.9	B1/500		G0/660
BVH (80°-90°)	179.5	5.6			G2/225
UL (90°-100°)	338.5	10.6		U3/500	
UH (100°-180°)	1040.6	32.7		U5	

BUG Rating: B1-U5-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
2.5°	29.1	29.1	28.9	28.9	28.7	28.5	28.5	28.5	28.3	28.3	28.1
5°	33.2	33.0	33.0	32.8	33.0	32.8	32.8	32.8	32.8	32.4	32.4
7.5°	41.2	41.0	41.0	40.8	41.2	40.8	40.8	41.0	41.0	40.8	40.8
10°	51.6	51.4	51.4	51.0	51.4	51.2	51.2	50.8	51.0	50.8	51.0
12.5°	64.0	63.4	63.4	63.2	63.6	63.4	63.2	62.8	63.2	63.0	63.0
15°	76.8	77.0	76.8	76.6	77.0	77.0	76.8	76.4	76.8	76.4	76.6
17.5°	91.1	91.1	91.1	90.5	91.1	91.3	91.1	90.7	90.9	91.1	91.1
20°	106.6	106.6	106.8	106.4	107.4	106.8	106.6	106.4	106.6	106.8	107.0
22.5°	123.7	123.7	123.9	123.7	124.3	124.3	124.1	124.1	124.3	124.7	124.7
25°	142.7	142.9	142.9	142.3	143.7	144.1	143.7	143.7	144.1	144.7	144.7
27.5°	162.2	163.1	162.7	162.7	164.5	164.7	164.5	164.7	165.3	165.9	166.1
30°	182.4	183.0	183.9	183.2	185.3	185.5	185.7	185.9	186.7	187.7	187.7
32.5°	202.6	203.2	203.6	203.6	206.3	206.1	205.9	206.7	207.9	208.3	208.9
35°	222.8	222.8	223.2	223.4	226.0	225.8	226.3	226.9	228.1	228.9	229.3
37.5°	240.9	240.5	241.5	241.9	244.0	244.2	244.4	245.4	246.8	247.9	248.3
40°	257.4	257.0	258.3	258.9	260.7	260.7	261.1	262.3	264.0	265.0	265.2
42.5°	272.1	271.9	273.1	273.9	275.8	275.6	275.4	277.0	278.8	280.1	280.5
45°	284.8	284.5	286.2	287.2	288.6	288.2	288.2	289.6	291.7	293.1	293.3
47.5°	295.6	295.6	297.4	298.6	299.8	299.2	298.8	300.2	302.3	304.3	304.5
50°	305.1	304.9	307.0	308.4	309.4	308.6	308.0	309.4	311.7	313.7	314.1
52.5°	312.7	313.1	315.1	317.0	317.8	316.5	315.5	317.0	319.4	321.6	322.1
55°	319.2	319.4	321.6	323.9	324.3	322.7	321.4	322.7	325.3	327.8	328.2
57.5°	324.3	324.7	327.4	329.4	329.6	327.8	326.3	327.4	330.2	332.7	333.3
60°	328.8	329.2	331.6	333.9	334.1	331.8	330.0	330.8	333.9	336.7	337.1
62.5°	332.2	332.9	335.5	337.5	337.5	334.9	332.7	333.5	336.7	339.8	340.2
65°	335.1	335.7	338.4	340.4	340.2	337.1	334.7	335.5	339.0	342.0	342.6
67.5°	337.1	337.5	340.4	342.4	341.6	338.4	335.9	336.5	340.2	343.3	343.9
70°	338.4	338.8	341.6	343.5	342.2	338.8	336.1	336.9	340.6	343.9	344.5
72.5°	339.0	339.6	342.2	343.9	342.4	338.6	335.7	336.7	340.4	343.9	344.3
75°	338.8	339.2	341.8	343.3	341.4	337.7	334.7	335.7	339.6	342.6	343.3
77.5°	337.7	338.2	340.6	341.8	339.6	335.9	333.1	334.1	337.7	340.8	341.4
80°	336.1	336.5	338.8	339.6	337.3	333.7	331.0	332.0	335.5	338.4	339.0
82.5°	333.5	334.1	336.1	336.5	334.1	330.8	328.2	329.2	332.4	335.1	335.5
85°	330.2	330.6	332.4	332.7	330.2	327.4	325.1	326.1	329.0	331.0	331.6
87.5°	326.5	326.5	328.4	328.4	325.7	323.1	321.4	322.3	324.9	326.5	327.1
90°	322.1	322.3	323.5	323.3	320.8	318.6	317.2	318.2	320.4	321.8	322.3
92.5°	317.2	317.4	318.4	318.0	315.5	313.7	312.5	313.7	315.7	316.8	317.2
95°	311.9	312.1	312.9	312.1	309.8	308.4	307.4	308.8	310.4	311.5	311.9
97.5°	306.4	306.6	307.2	306.4	303.9	302.7	302.3	303.5	305.1	305.9	306.4
100°	300.7	300.7	301.1	299.8	297.8	296.8	296.6	298.0	299.6	300.4	300.9
102.5°	294.3	294.5	294.5	293.3	291.3	290.7	290.7	292.3	293.9	294.5	294.9
105°	287.8	287.8	287.8	286.8	284.5	284.1	284.3	286.0	287.8	288.6	289.0
107.5°	280.7	280.9	280.5	279.5	277.6	277.2	277.6	279.9	281.5	282.3	282.7
110°	273.1	273.3	273.1	271.9	270.3	270.1	270.7	272.9	274.6	275.4	276.0



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 CATALOG NUMBER: FFX-CLB-20-730-U-VM8

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	265.2	265.4	265.2	264.2	262.5	262.5	263.3	265.6	267.4	268.0	268.6
115°	256.8	257.0	256.6	255.8	254.2	254.6	255.4	257.6	259.5	260.1	260.9
117.5°	247.9	248.1	247.9	246.8	245.4	245.8	247.0	249.3	250.9	251.5	252.3
120°	238.1	238.1	238.1	237.1	235.6	236.4	237.7	240.1	241.5	241.9	242.8
122.5°	228.1	227.7	227.7	227.1	225.4	226.5	227.7	230.1	231.6	231.8	232.4
125°	217.1	217.3	216.7	216.3	214.8	216.1	217.1	219.5	220.7	221.0	221.6
127.5°	205.3	205.9	205.3	204.6	203.6	204.8	206.1	208.3	209.3	209.5	209.9
130°	194.3	194.3	193.6	193.2	192.2	193.4	194.7	196.7	197.7	197.7	198.1
132.5°	183.2	182.6	182.4	182.0	180.8	182.2	183.0	185.1	185.9	185.7	186.1
135°	171.2	171.2	170.6	170.4	169.4	170.8	171.6	173.5	174.1	173.9	174.3
137.5°	160.0	160.0	159.6	159.2	158.6	159.8	160.6	162.0	162.7	162.0	162.7
140°	149.0	149.0	148.8	148.4	147.8	149.0	149.6	150.8	151.4	150.8	151.2
142.5°	138.8	138.4	138.2	138.0	137.2	138.4	138.8	140.0	140.2	139.8	140.4
145°	128.0	128.2	128.0	127.8	127.2	128.2	128.6	129.6	129.8	129.4	130.0
147.5°	119.0	118.4	118.6	118.4	117.8	118.8	119.0	119.6	120.1	119.6	120.1
150°	110.1	109.7	109.7	109.5	109.0	109.9	110.1	110.7	110.9	110.5	110.9
152.5°	102.1	101.9	101.9	101.7	101.3	101.9	102.1	102.5	102.7	102.3	102.5
155°	95.0	94.8	94.8	94.6	94.2	94.8	94.8	95.2	95.4	95.2	95.4
157.5°	88.7	88.5	88.5	88.5	88.1	88.5	88.5	88.9	88.9	88.7	88.9
160°	83.6	83.2	83.4	83.2	82.8	83.2	83.2	83.4	83.4	83.4	83.4
162.5°	78.9	78.9	78.9	78.7	78.5	78.7	78.7	78.9	78.9	78.9	78.7
165°	75.2	75.2	75.2	75.0	74.8	75.0	75.0	75.0	75.0	75.0	75.0
167.5°	72.2	72.0	72.2	72.0	71.7	72.0	72.0	72.0	72.0	72.0	72.0
170°	69.5	69.5	69.5	69.5	69.3	69.5	69.5	69.5	69.5	69.5	69.5
172.5°	67.9	67.7	67.7	67.7	67.5	67.7	67.5	67.7	67.5	67.7	67.5
175°	66.4	66.4	66.4	66.4	66.2	66.2	66.2	66.2	66.2	66.2	66.2
177.5°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
180°	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4

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: SP1-2406-133-4

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5.

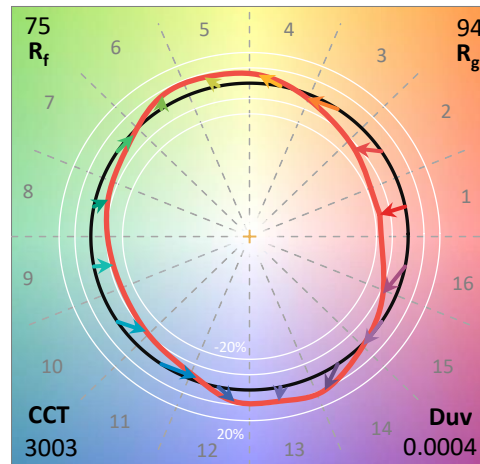
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-4
 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-100-730-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3003
 CIE u': 0.2503
 CIE v': 0.5219
 Duv: 0.0004
 CIE x: 0.4373
 CIE y: 0.4053
 CIE z: 0.1573
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 52.93545
 Rf: 75.2
 Rg: 93.8

CRI (Ra): 71.9
 R1: 68.2
 R2: 82.2
 R3: 93.9
 R4: 67.6
 R5: 67.2
 R6: 75.3
 R7: 77.6
 R8: 43.1
 R9: -33.7
 R10: 59.0
 R11: 62.4
 R12: 48.5
 R13: 70.8
 R14: 96.6
 R15: 60.0



Test Conditions

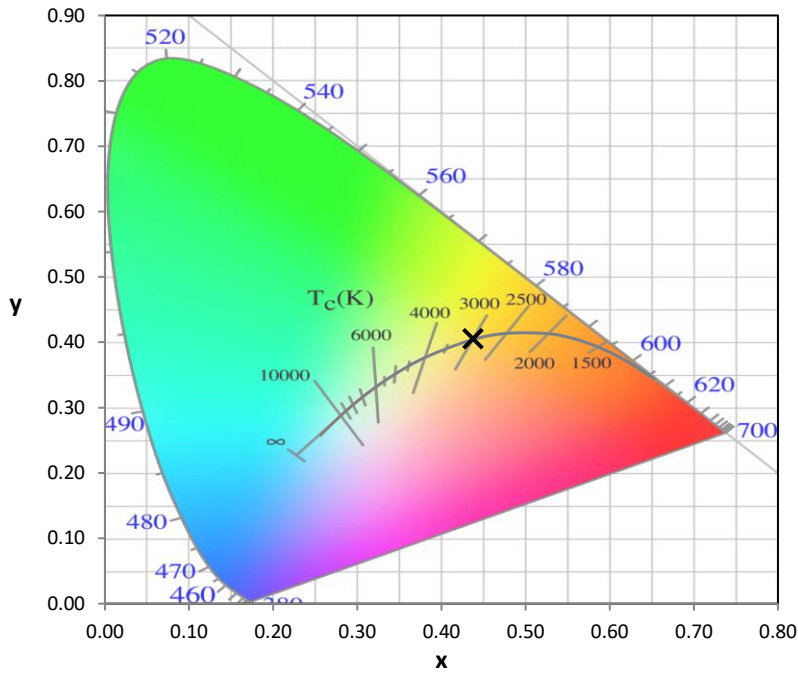
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

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 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

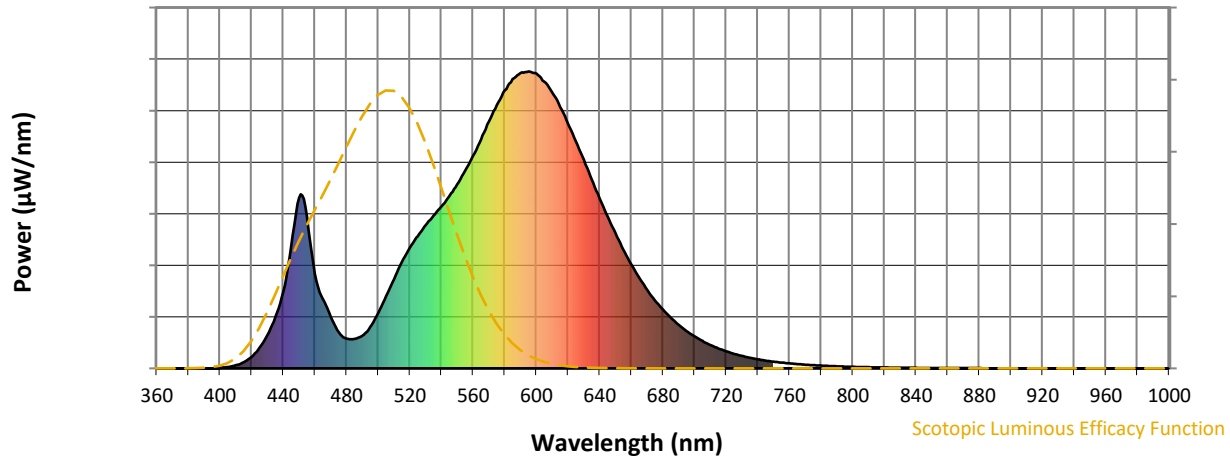


Photopic Lumens: NR

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-4

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.21

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

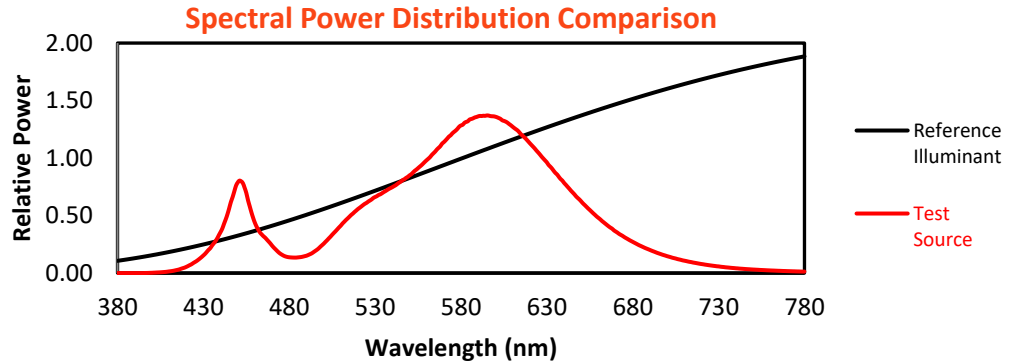
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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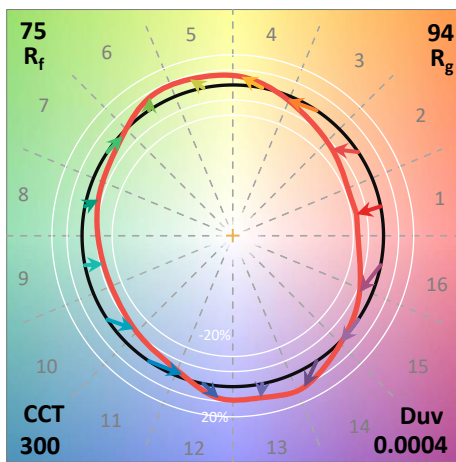
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Summary

$R_f = 75.2$
 $R_g = 93.8$
 CIE $R_a = 71.9$
 $R_g = -33.7$



Color Vector Graphics



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

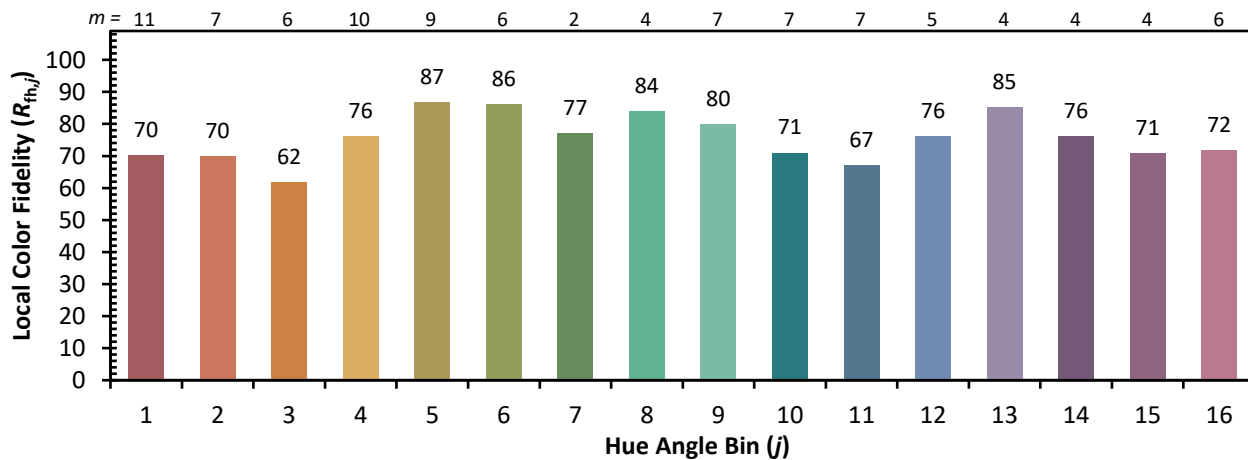
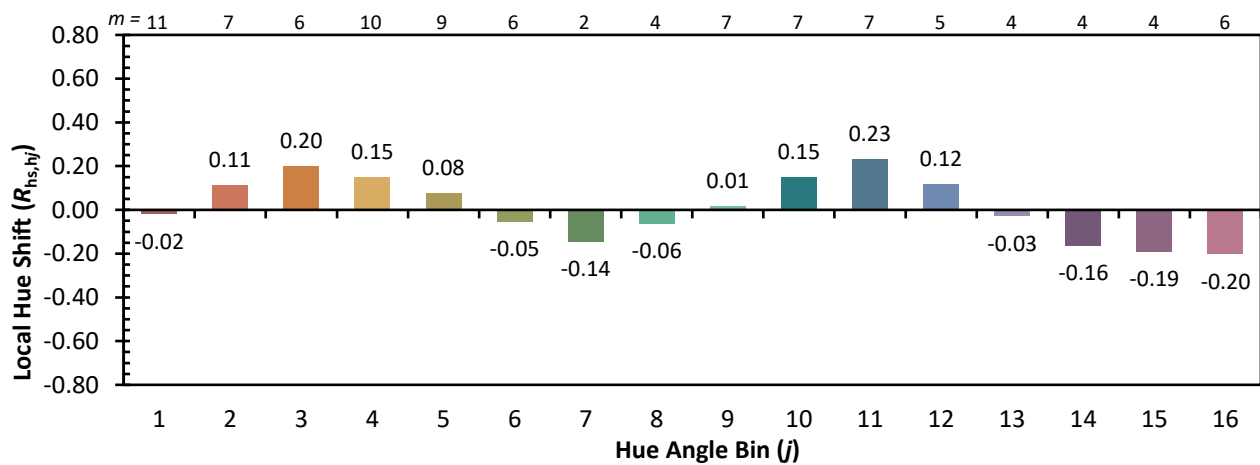
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CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
CES25 = 73	CES50 = 86	CES75 = 61	



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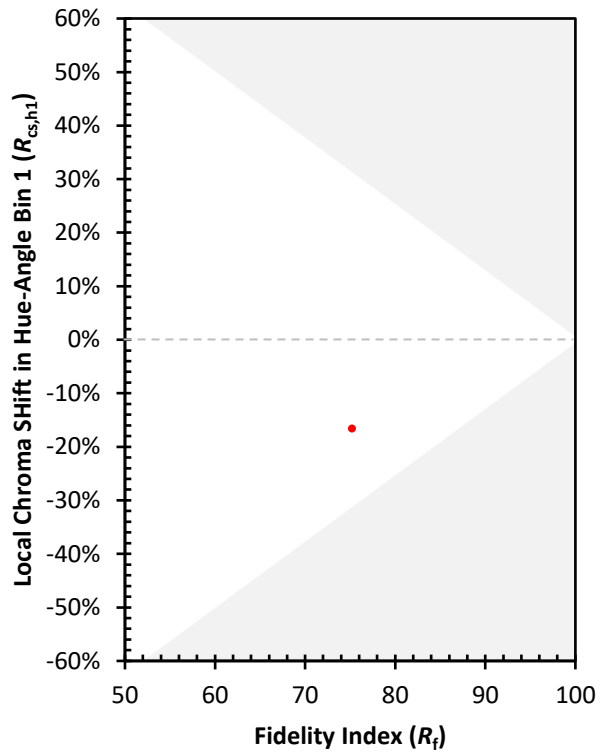
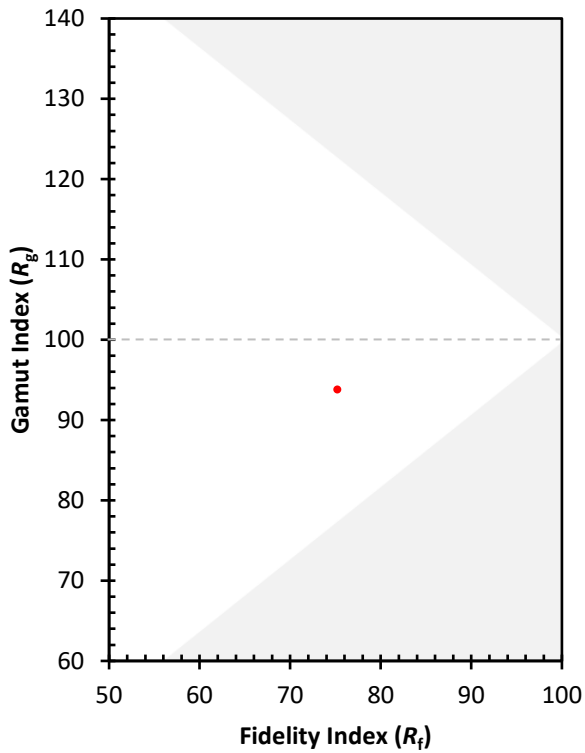
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)