

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: P856165

Luminaire Tested: **FFX-CLB-90-730-U-FR-T5-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856165  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-90-730-U-FR-T5-UPLR  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

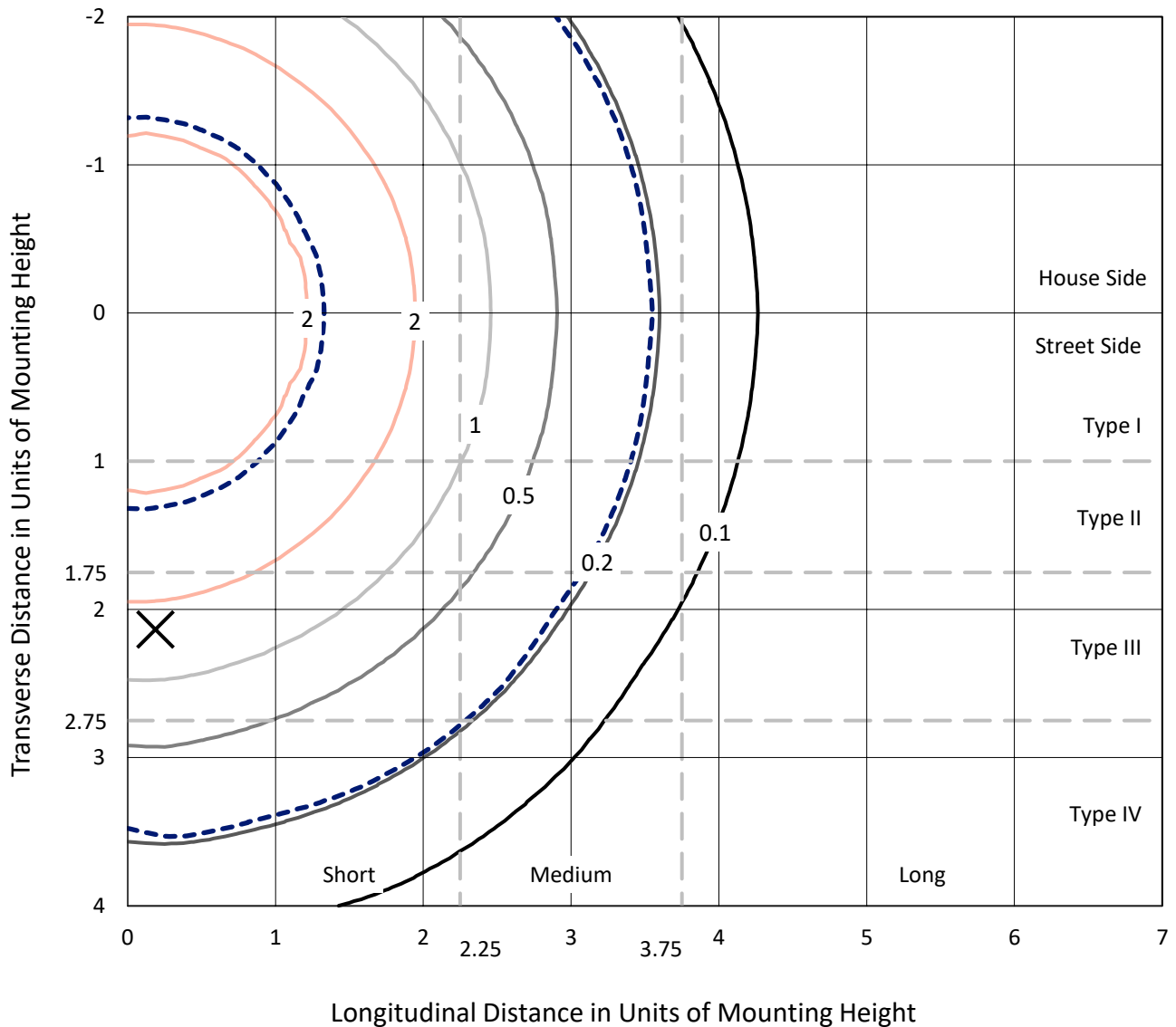
Lumens per Lamp: N/A  
Luminaire Lumens: 13922.2 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type V - Short  
BUG Rating: B4 - U5 - G3

Input Watts (W): 90.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 5.6%%  
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

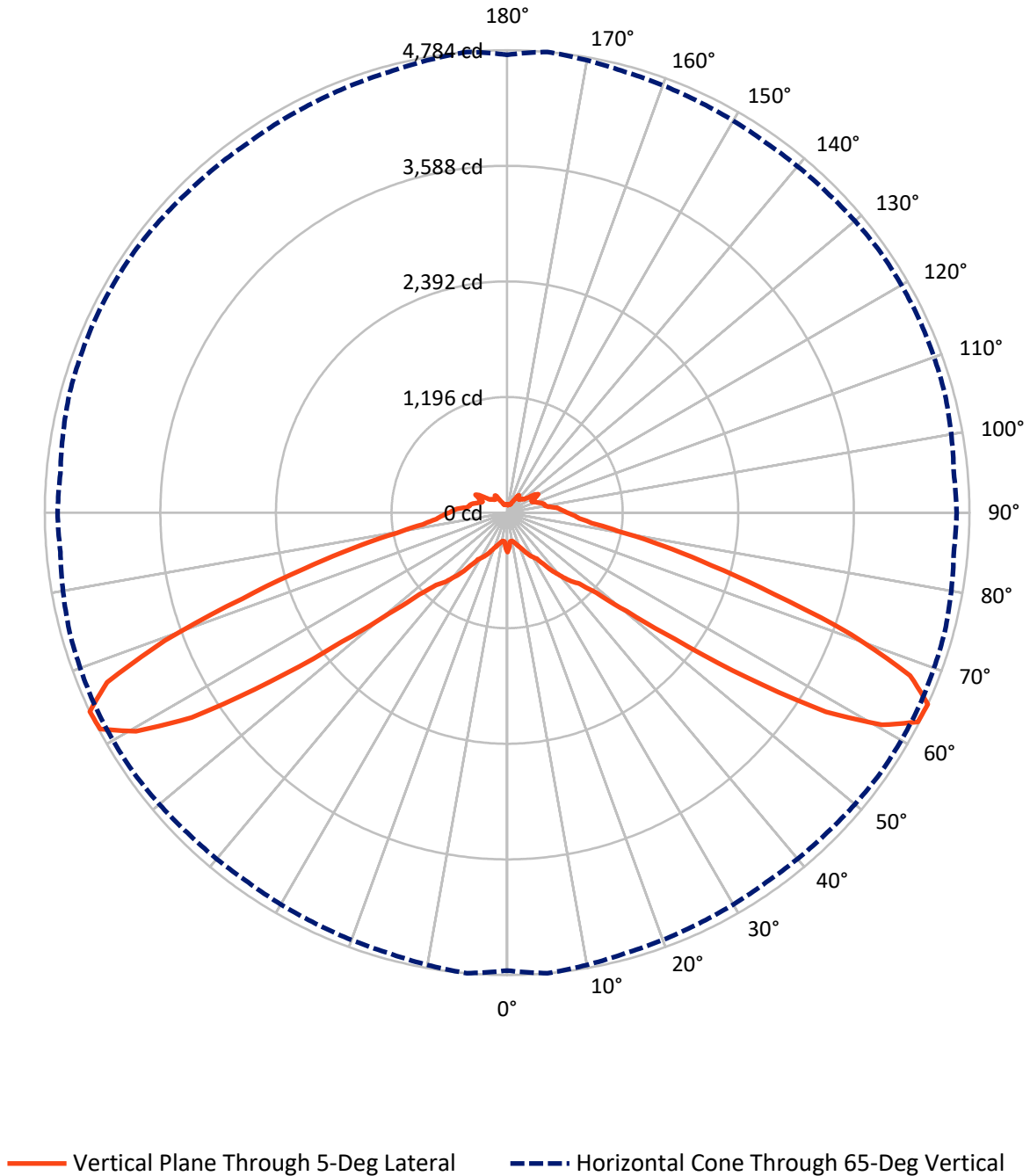
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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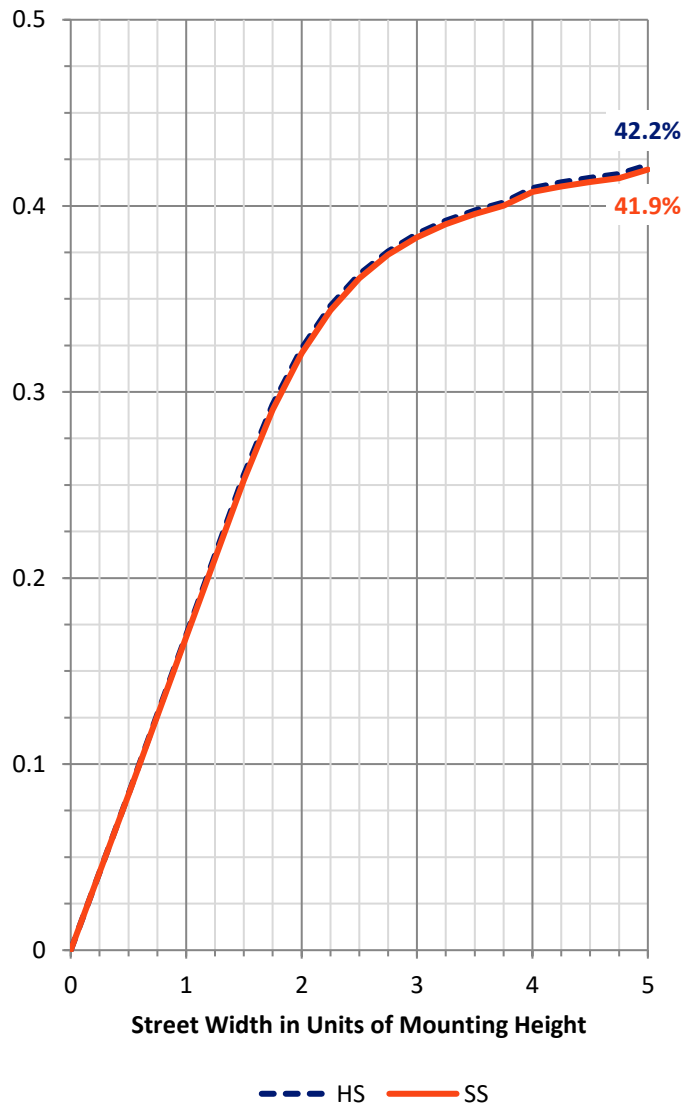
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6081.4	879.7	6961.1
	% Fixture	43.7	6.3	50.0
<b>Street Side</b>	Lumens	6081.4	879.7	6961.1
	% Fixture	43.7	6.3	50.0
<b>Total</b>	Lumens	12162.9	1759.4	13922.2
	% Fixture	87.4	12.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.6	0.2
10°-20°	97.7	0.7
20°-30°	211.9	1.5
30°-40°	429.2	3.1
40°-50°	865.4	6.2
50°-60°	2751.3	19.8
60°-70°	4436.9	31.9
70°-80°	2419.6	17.4
80°-90°	921.3	6.6
90°-100°	552.8	4.0
100°-110°	352.6	2.5
110°-120°	268.2	1.9
120°-130°	226.9	1.6
130°-140°	147.9	1.1
140°-150°	123.9	0.9
150°-160°	55.6	0.4
160°-170°	23.6	0.2
170°-180°	7.9	0.1
0°-90°	12162.9	87.4
0°-180°	13922.2	100.0



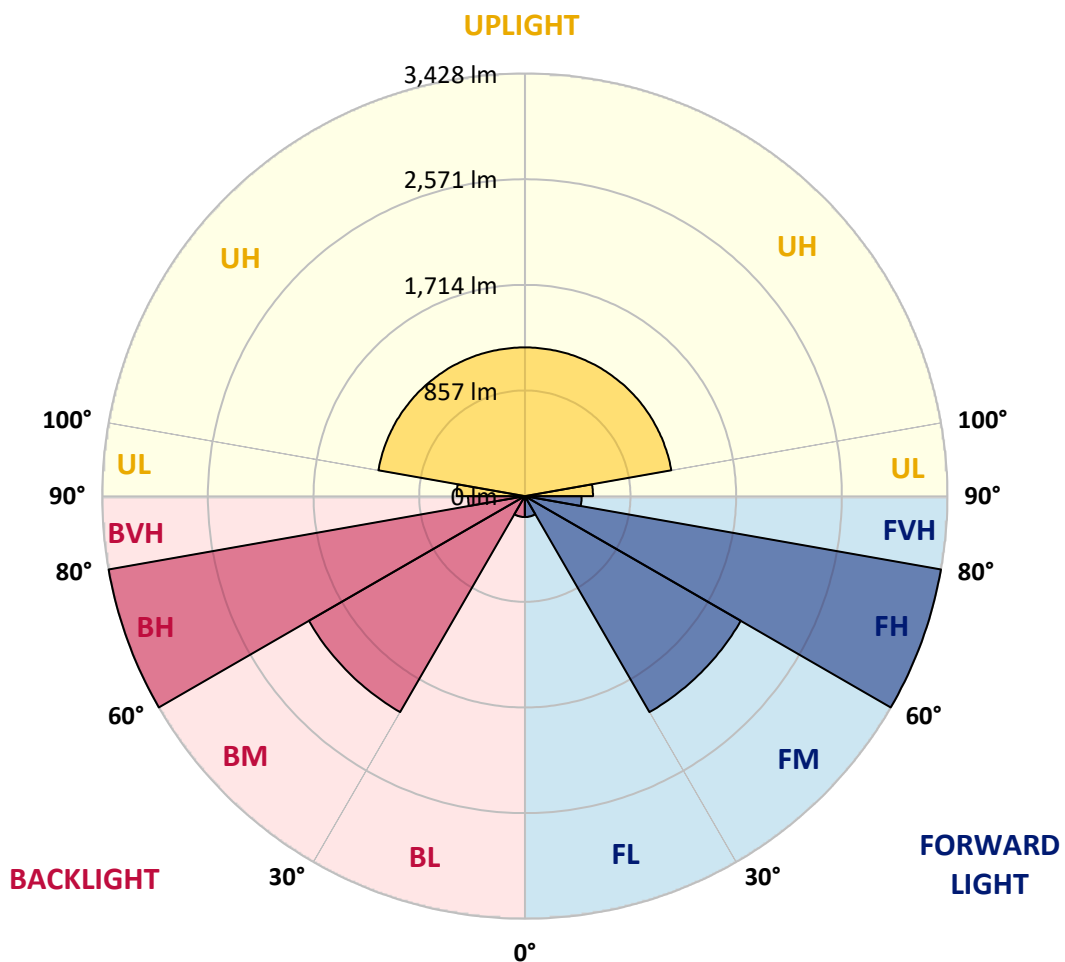
REPORT NUMBER: P856165  
 CATALOG NUMBER: FFX-CLB-90-730-U-FR-T5-UPLR

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.6	1.2			
FM (30°-60°)	2022.9	14.5			
FH (60°-80°)	3428.2	24.6			G2/5000
FVH (80°-90°)	460.7	3.3			G3/500
BL (0°-30°)	169.6	1.2	B1/500		
BM (30°-60°)	2022.9	14.5	B2/2500		
BH (60°-80°)	3428.2	24.6	B4/5000		G2/5000
BVH (80°-90°)	460.7	3.3			G3/500
UL (90°-100°)	552.8	4.0		U4/1000	
UH (100°-180°)	1206.5	8.7		U5	

**BUG Rating: B4-U5-G3**

Type V Short





REPORT NUMBER: P856165

CATALOG NUMBER: FFX-CLB-90-730-U-FR-T5-UPLR

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6	408.6
2.5°	364.9	370.8	354.8	341.7	335.9	337.3	350.4	363.5	350.4	354.8	354.8
5°	302.4	303.9	303.9	301.0	305.3	296.6	286.4	286.4	296.6	308.2	308.2
7.5°	292.2	296.6	308.2	308.2	312.6	298.1	283.5	285.0	299.5	317.0	321.3
10°	301.0	301.0	298.1	301.0	311.1	309.7	293.7	286.4	296.6	314.1	319.9
12.5°	314.1	314.1	322.8	335.9	337.3	324.2	308.2	306.8	318.4	330.0	330.0
15°	333.0	334.4	338.8	337.3	341.7	337.3	333.0	335.9	343.1	343.1	343.1
17.5°	357.7	357.7	357.7	357.7	357.7	359.1	360.6	360.6	360.6	363.5	363.5
20°	385.3	385.3	383.8	382.4	382.4	383.8	385.3	385.3	385.3	388.2	388.2
22.5°	420.2	418.7	415.8	415.8	415.8	417.3	414.4	412.9	411.5	412.9	412.9
25°	460.9	460.9	458.0	453.6	453.6	452.2	447.8	446.4	444.9	447.8	446.4
27.5°	501.6	501.6	497.3	491.4	491.4	491.4	488.5	485.6	482.7	484.2	484.2
30°	539.4	536.5	535.1	530.7	529.2	530.7	527.8	527.8	522.0	520.5	523.4
32.5°	574.3	571.4	574.3	569.9	565.6	569.9	568.5	568.5	559.8	556.9	559.8
35°	670.3	663.0	668.8	658.6	652.8	654.3	657.2	663.0	654.3	649.9	651.4
37.5°	773.5	772.0	790.9	806.9	804.0	779.3	763.3	766.2	777.9	793.9	793.9
40°	869.5	866.6	870.9	865.1	865.1	862.2	860.7	868.0	844.7	838.9	834.6
42.5°	969.8	968.3	943.6	908.7	901.5	930.5	943.6	953.8	920.4	908.7	900.0
45°	1068.7	1048.3	1043.9	1032.3	1020.7	1039.6	1038.1	1045.4	1029.4	1027.9	1020.7
47.5°	1276.6	1238.8	1225.7	1227.1	1202.4	1222.8	1231.5	1254.8	1221.3	1222.8	1221.3
50°	1651.7	1603.7	1625.5	1611.0	1584.8	1609.5	1608.1	1650.2	1595.0	1615.3	1606.6
52.5°	2237.6	2172.2	2185.3	2176.6	2150.4	2201.3	2212.9	2275.4	2169.3	2195.5	2188.2
55°	3085.3	3014.0	3043.1	2938.4	2910.8	3011.1	3048.9	3121.6	2980.6	2995.1	2987.9
57.5°	3893.7	3889.3	3938.8	3864.6	3839.9	3911.1	3876.2	3940.2	3864.6	3918.4	3901.0
60°	4444.7	4456.4	4505.8	4527.6	4484.0	4521.8	4437.5	4485.4	4462.2	4540.7	4533.4
62.5°	4731.2	4769.0	4739.9	4741.3	4693.4	4722.4	4706.4	4734.1	4728.3	4735.5	4728.3
65°	4737.0	4783.5	4719.5	4690.4	4670.1	4681.7	4709.4	4709.4	4691.9	4639.6	4651.2
67.5°	4427.3	4497.1	4425.8	4385.1	4396.8	4392.4	4411.3	4386.6	4376.4	4299.3	4300.8
70°	3665.4	3777.4	3672.7	3634.9	3665.4	3684.3	3682.9	3662.5	3646.5	3550.6	3578.2
72.5°	2782.9	2881.7	2788.7	2774.1	2803.2	2832.3	2807.6	2832.3	2806.1	2762.5	2775.6
75°	2101.0	2185.3	2185.3	2240.5	2249.3	2233.3	2164.9	2192.6	2210.0	2211.5	2224.5
77.5°	1545.6	1634.2	1680.8	1770.9	1766.6	1738.9	1656.1	1688.0	1721.5	1744.7	1760.7
80°	1099.2	1166.1	1234.4	1298.4	1307.1	1283.8	1233.0	1251.9	1272.2	1288.2	1296.9
82.5°	852.0	882.5	869.5	862.2	873.8	907.3	918.9	930.5	901.5	882.5	889.8
85°	743.0	745.9	769.1	785.1	789.5	789.5	777.9	786.6	793.9	812.8	812.8
87.5°	677.5	680.4	738.6	754.6	760.4	753.1	738.6	744.4	750.2	761.9	761.9
90°	601.9	610.7	668.8	681.9	687.7	676.1	671.7	676.1	668.8	673.2	673.2
92.5°	559.8	559.8	587.4	581.6	580.1	581.6	583.0	587.4	580.1	577.2	577.2
95°	511.8	519.1	511.8	517.6	516.2	508.9	506.0	508.9	504.5	504.5	507.4
97.5°	428.9	430.4	417.3	421.6	421.6	415.8	408.6	411.5	407.1	410.0	411.5
100°	401.3	396.9	375.1	372.2	370.8	366.4	362.0	362.0	360.6	359.1	360.6
102.5°	392.6	392.6	363.5	357.7	354.8	347.5	341.7	341.7	341.7	341.7	343.1
105°	359.1	369.3	347.5	343.1	338.8	330.0	321.3	319.9	322.8	319.9	324.2
107.5°	325.7	334.4	322.8	322.8	318.4	309.7	303.9	302.4	303.9	301.0	303.9
110°	306.8	311.1	298.1	298.1	295.2	287.9	286.4	285.0	285.0	280.6	283.5



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CATALOG NUMBER: FFX-CLB-90-730-U-FR-T5-UPLR

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	283.5	283.5	273.3	270.4	270.4	266.1	264.6	263.2	263.2	263.2	264.6
115°	282.1	280.6	264.6	254.4	253.0	251.5	253.0	251.5	251.5	250.1	250.1
117.5°	344.6	330.0	276.3	251.5	251.5	253.0	258.8	254.4	244.3	244.3	242.8
120°	372.2	375.1	318.4	292.2	286.4	279.2	277.7	274.8	264.6	263.2	269.0
122.5°	328.6	343.1	308.2	298.1	292.2	283.5	277.7	276.3	276.3	269.0	279.2
125°	255.9	269.0	251.5	250.1	248.6	250.1	247.2	247.2	250.1	245.7	247.2
127.5°	219.5	225.4	218.1	218.1	216.6	215.2	212.3	213.7	212.3	213.7	215.2
130°	210.8	215.2	207.9	205.0	205.0	206.5	206.5	206.5	202.1	199.2	200.6
132.5°	209.4	207.9	196.3	190.5	190.5	200.6	205.0	205.0	194.8	187.6	187.6
135°	189.0	190.5	189.0	181.7	183.2	186.1	190.5	191.9	181.7	177.4	178.8
137.5°	181.7	186.1	187.6	184.7	184.7	181.7	180.3	181.7	178.8	180.3	180.3
140°	181.7	183.2	187.6	190.5	187.6	184.7	184.7	184.7	186.1	190.5	193.4
142.5°	186.1	187.6	186.1	184.7	189.0	196.3	202.1	202.1	197.7	194.8	196.3
145°	213.7	218.1	218.1	213.7	216.6	213.7	213.7	210.8	210.8	210.8	212.3
147.5°	203.6	202.1	205.0	209.4	205.0	203.6	203.6	205.0	207.9	209.4	210.8
150°	159.9	155.6	158.5	167.2	165.8	165.8	165.8	167.2	168.7	168.7	170.1
152.5°	126.5	126.5	129.4	129.4	130.9	130.9	129.4	129.4	129.4	130.9	130.9
155°	113.4	112.0	114.9	119.2	116.3	116.3	116.3	116.3	116.3	116.3	117.8
157.5°	98.9	97.4	97.4	98.9	98.9	98.9	98.9	100.3	100.3	98.9	100.3
160°	90.1	90.1	88.7	88.7	88.7	90.1	91.6	91.6	90.1	88.7	88.7
162.5°	85.8	85.8	82.9	81.4	81.4	82.9	85.8	85.8	82.9	81.4	81.4
165°	85.8	84.3	80.0	77.1	77.1	80.0	84.3	84.3	80.0	77.1	77.1
167.5°	84.3	84.3	81.4	78.5	78.5	81.4	82.9	84.3	82.9	80.0	78.5
170°	81.4	81.4	82.9	82.9	81.4	81.4	81.4	81.4	82.9	82.9	82.9
172.5°	84.3	82.9	84.3	85.8	85.8	84.3	82.9	82.9	84.3	85.8	85.8
175°	85.8	85.8	84.3	84.3	84.3	82.9	82.9	82.9	84.3	85.8	84.3
177.5°	77.1	77.1	75.6	77.1	77.1	77.1	75.6	77.1	77.1	77.1	78.5
180°	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7



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



CCT = 3003K  
CIE x = 0.4373  
CIE y = 0.4053  
Duv = 0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

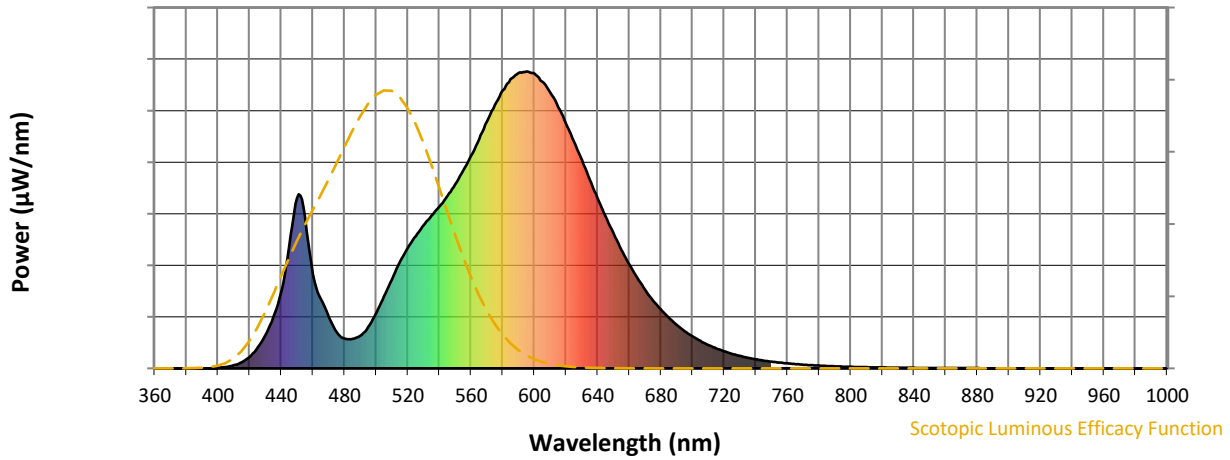


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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 <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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 <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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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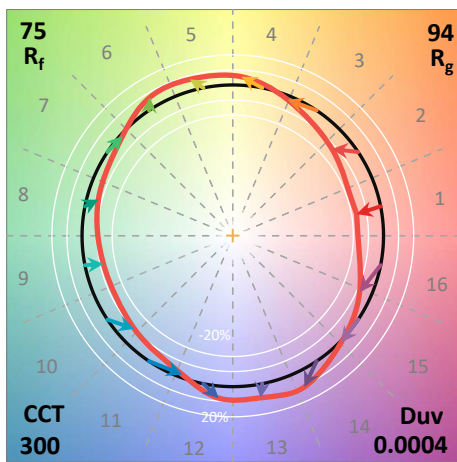
TM-30-18

**Summary**

$R_f = 75.2$   
 $R_g = 93.8$   
 CIE  $R_a = 71.9$   
 $R_9 = -33.7$



**Color Vector Graphics**



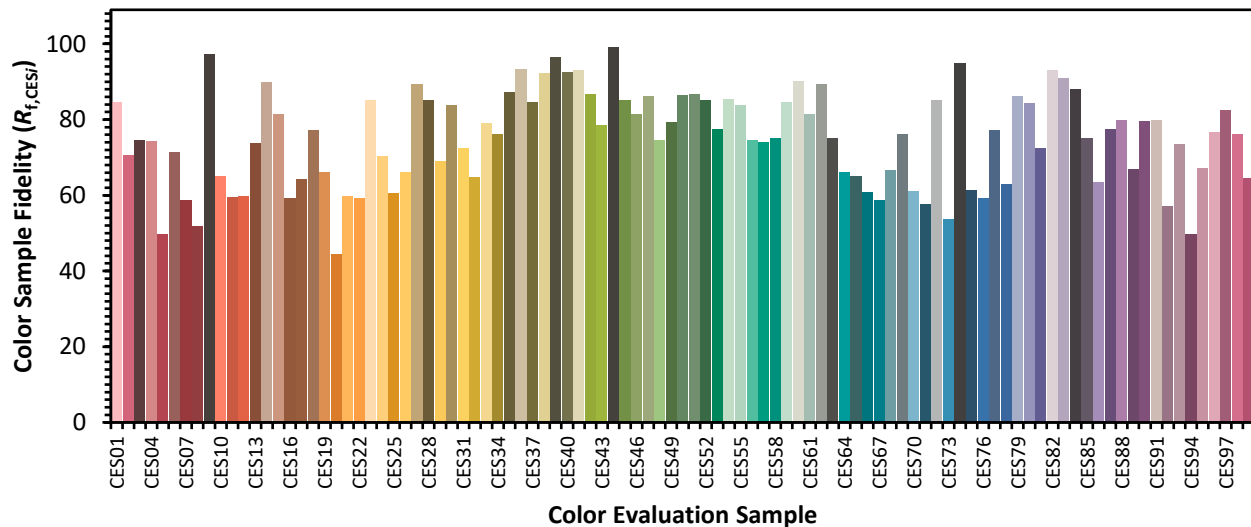


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

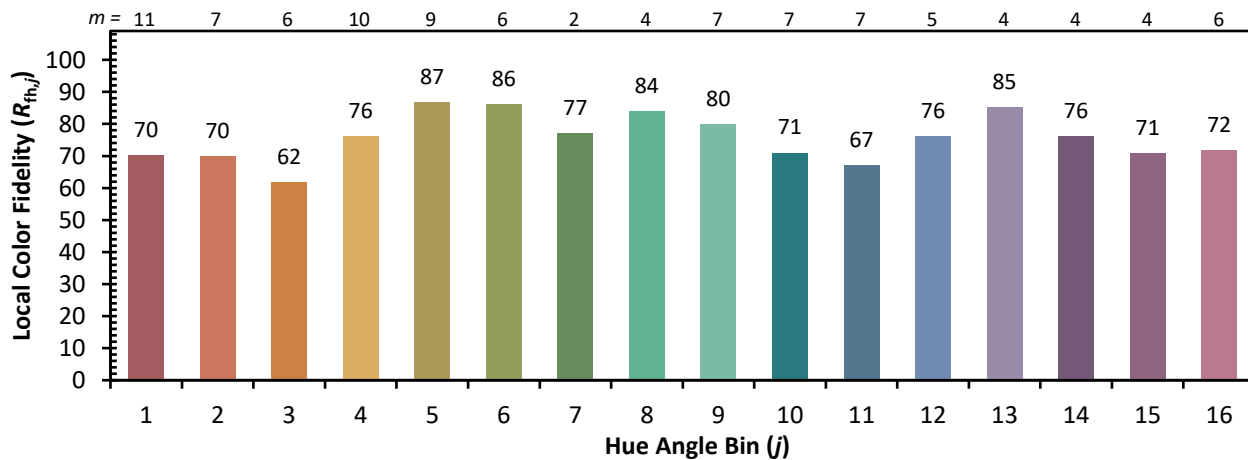
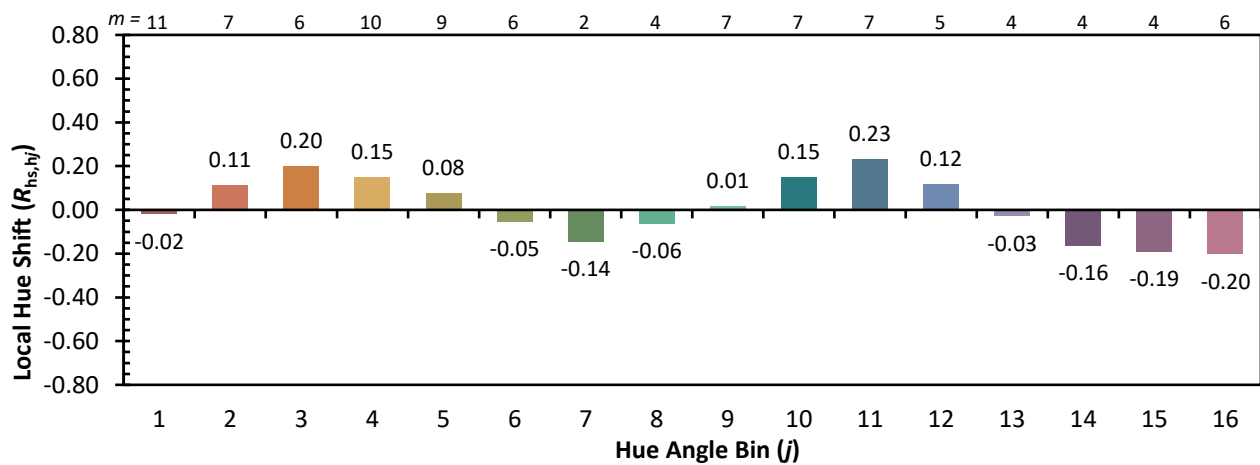
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CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 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
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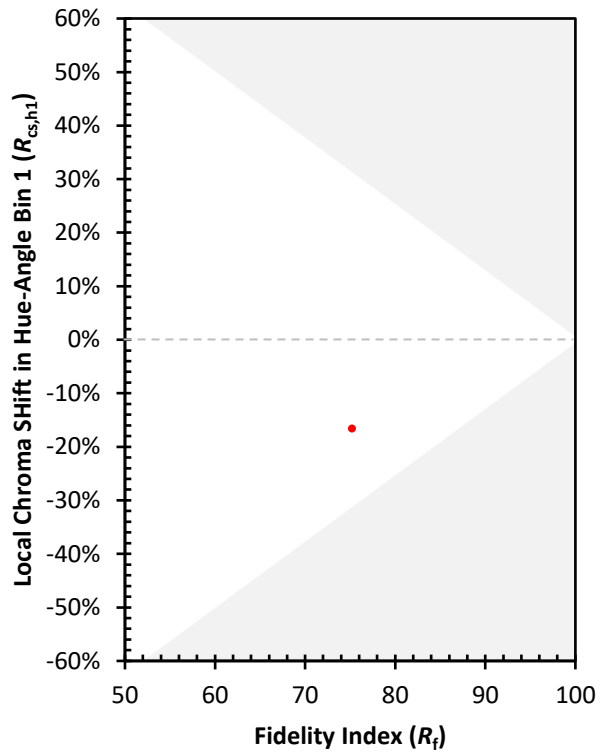
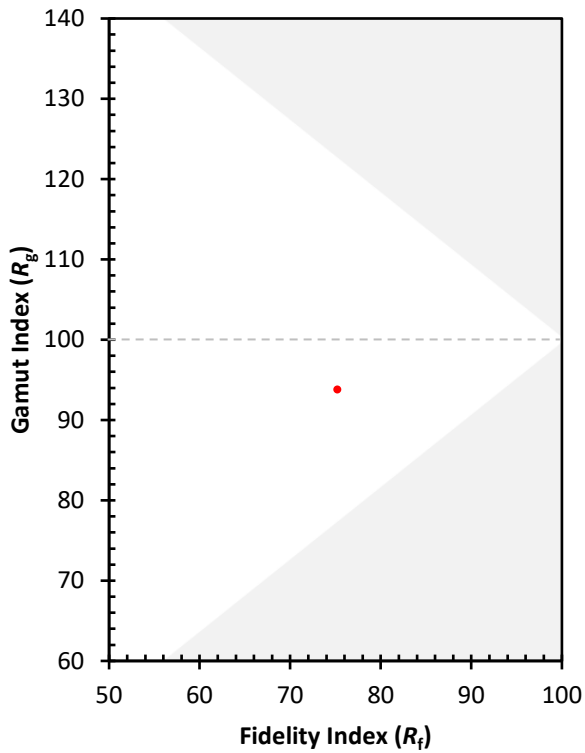
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)