

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: P856171

Luminaire Tested: **FFX-CLB-30-730-U-FR-T5-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856171  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-30-730-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**

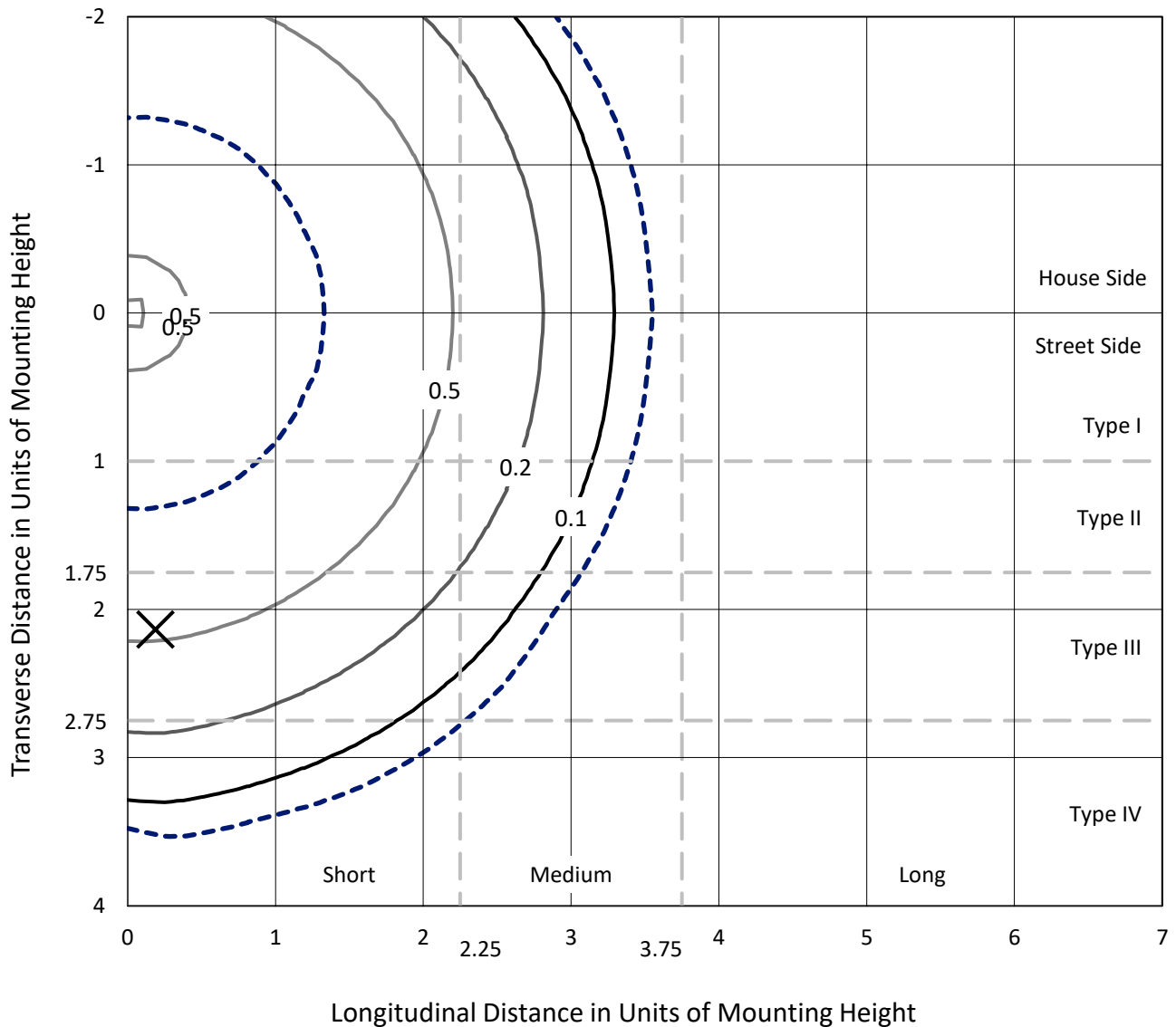
Lumens per Lamp: N/A  
Luminaire Lumens: 4819 lumens  
Efficiency: N/A  
Efficacy: 158.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type V - Short  
BUG Rating: B3 - U3 - G2

Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 10.6%%  
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

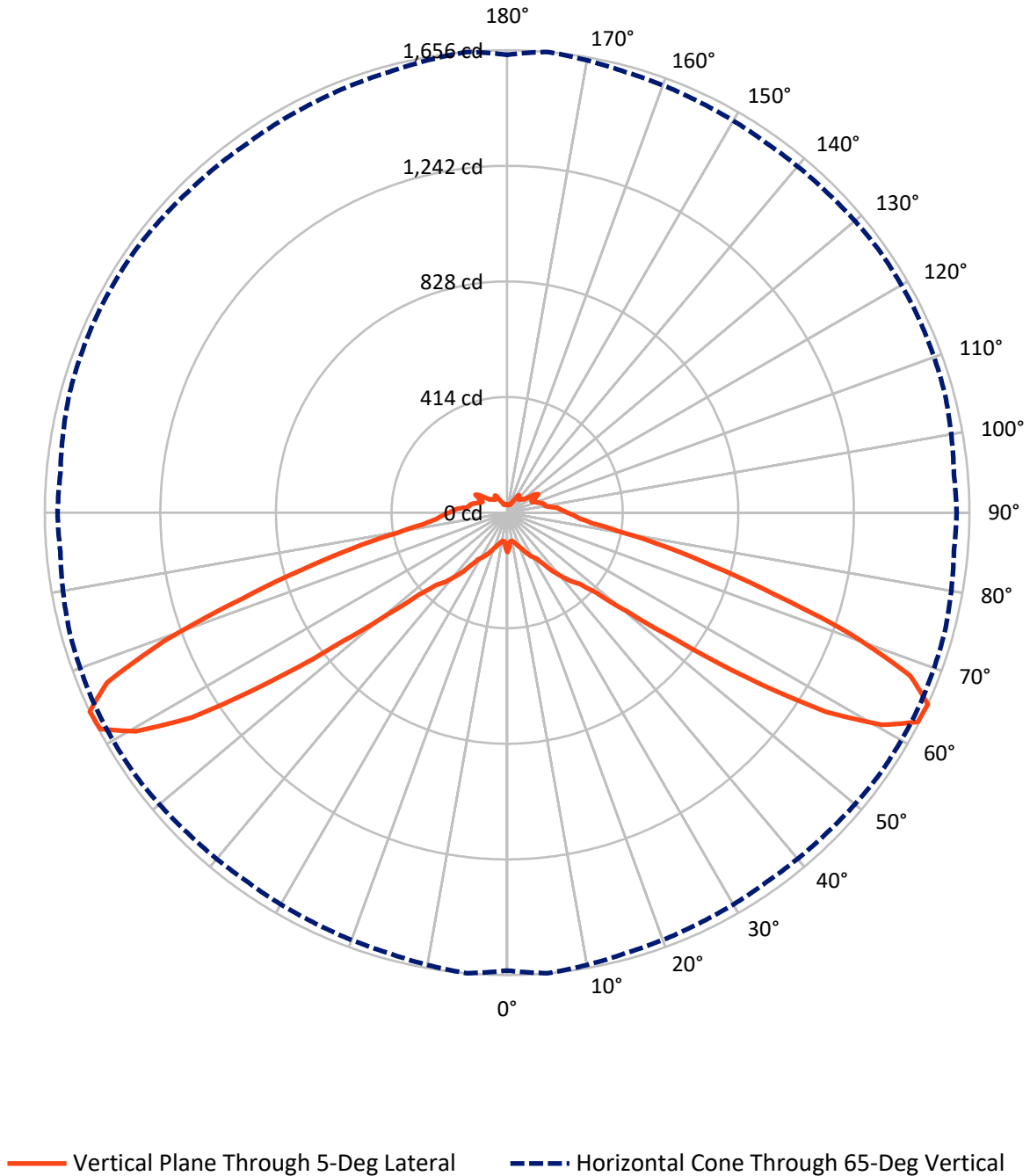
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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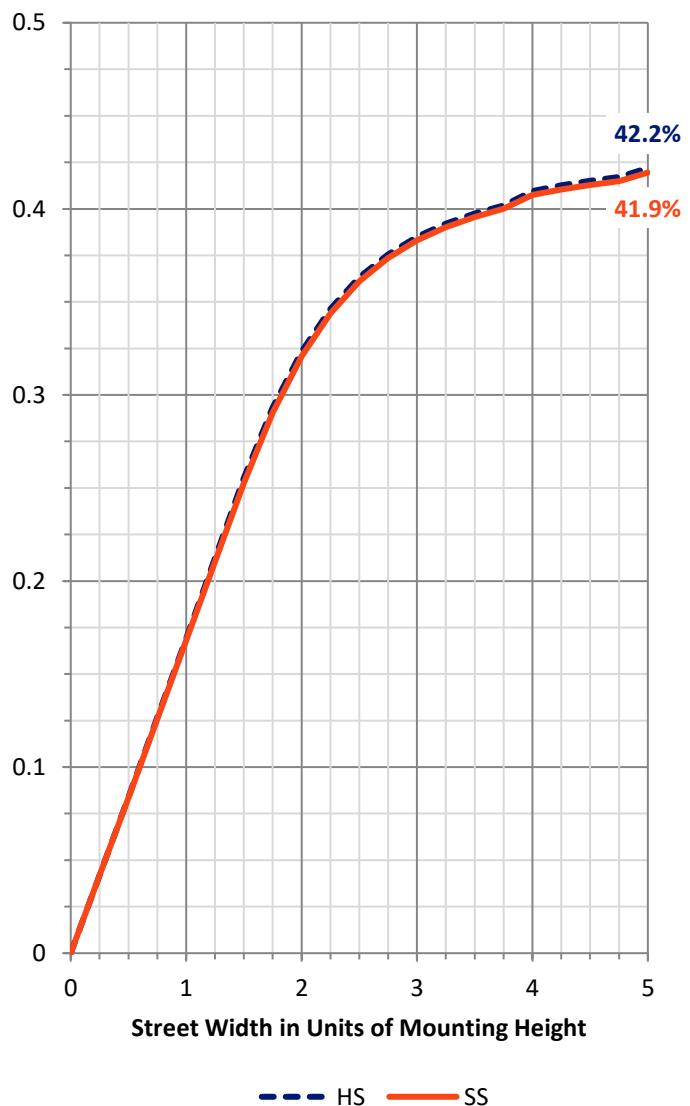
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2105.0	304.5	2409.5
	% Fixture	43.7	6.3	50.0
<b>Street Side</b>	Lumens	2105.0	304.5	2409.5
	% Fixture	43.7	6.3	50.0
<b>Total</b>	Lumens	4210.0	609.0	4819.0
	% Fixture	87.4	12.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.2	0.2
10°-20°	33.8	0.7
20°-30°	73.3	1.5
30°-40°	148.6	3.1
40°-50°	299.5	6.2
50°-60°	952.3	19.8
60°-70°	1535.8	31.9
70°-80°	837.5	17.4
80°-90°	318.9	6.6
90°-100°	191.3	4.0
100°-110°	122.1	2.5
110°-120°	92.8	1.9
120°-130°	78.6	1.6
130°-140°	51.2	1.1
140°-150°	42.9	0.9
150°-160°	19.2	0.4
160°-170°	8.2	0.2
170°-180°	2.7	0.1
0°-90°	4210.0	87.4
0°-180°	4819.0	100.0



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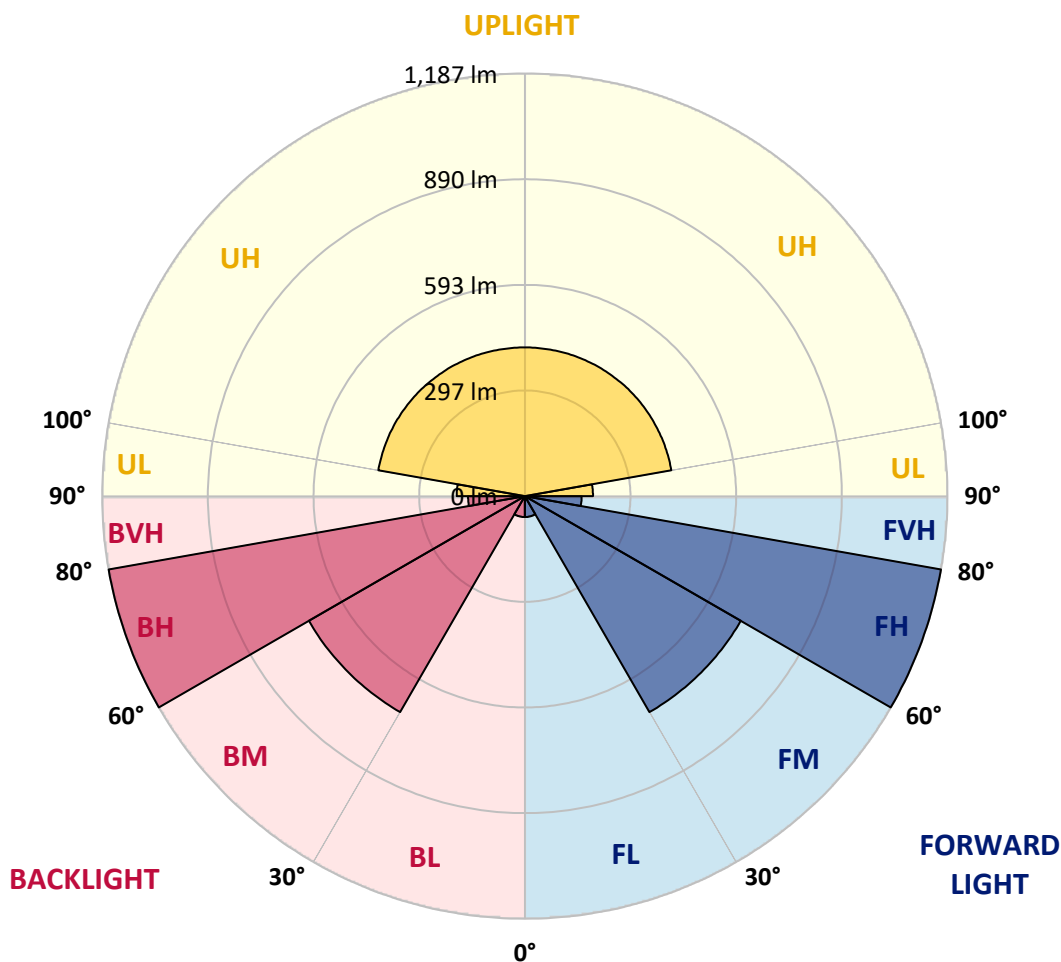
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T5-UPLR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	58.7	1.2			
FM	(30°-60°)	700.2	14.5			
FH	(60°-80°)	1186.6	24.6			G1/1800
FVH	(80°-90°)	159.5	3.3			G2/225
BL	(0°-30°)	58.7	1.2	B0/110		
BM	(30°-60°)	700.2	14.5	B1/1000		
BH	(60°-80°)	1186.6	24.6	B3/2500		G1/1800
BVH	(80°-90°)	159.5	3.3			G2/225
UL	(90°-100°)	191.3	4.0		U3/500	
UH	(100°-180°)	417.6	8.7		U3/500	

**BUG Rating: B3-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4
2.5°	126.3	128.3	122.8	118.3	116.3	116.8	121.3	125.8	121.3	122.8	122.8
5°	104.7	105.2	105.2	104.2	105.7	102.7	99.1	99.1	102.7	106.7	106.7
7.5°	101.2	102.7	106.7	106.7	108.2	103.2	98.1	98.6	103.7	109.7	111.2
10°	104.2	104.2	103.2	104.2	107.7	107.2	101.7	99.1	102.7	108.7	110.7
12.5°	108.7	108.7	111.7	116.3	116.8	112.2	106.7	106.2	110.2	114.2	114.2
15°	115.2	115.8	117.3	116.8	118.3	116.8	115.2	116.3	118.8	118.8	118.8
17.5°	123.8	123.8	123.8	123.8	123.8	124.3	124.8	124.8	124.8	125.8	125.8
20°	133.4	133.4	132.9	132.4	132.4	132.9	133.4	133.4	133.4	134.4	134.4
22.5°	145.4	144.9	143.9	143.9	143.9	144.4	143.4	142.9	142.4	142.9	142.9
25°	159.5	159.5	158.5	157.0	157.0	156.5	155.0	154.5	154.0	155.0	154.5
27.5°	173.6	173.6	172.1	170.1	170.1	170.1	169.1	168.1	167.1	167.6	167.6
30°	186.7	185.7	185.2	183.7	183.2	183.7	182.7	182.7	180.7	180.2	181.2
32.5°	198.8	197.8	198.8	197.3	195.8	197.3	196.8	196.8	193.8	192.8	193.8
35°	232.0	229.5	231.5	228.0	226.0	226.5	227.5	229.5	226.5	225.0	225.5
37.5°	267.7	267.2	273.8	279.3	278.3	269.7	264.2	265.2	269.2	274.8	274.8
40°	301.0	299.9	301.5	299.4	299.4	298.4	297.9	300.4	292.4	290.4	288.9
42.5°	335.7	335.2	326.6	314.5	312.0	322.1	326.6	330.1	318.6	314.5	311.5
45°	369.9	362.9	361.3	357.3	353.3	359.8	359.3	361.8	356.3	355.8	353.3
47.5°	441.9	428.8	424.3	424.8	416.2	423.2	426.3	434.3	422.7	423.2	422.7
50°	571.7	555.1	562.6	557.6	548.6	557.1	556.6	571.2	552.1	559.1	556.1
52.5°	774.5	751.9	756.4	753.4	744.3	761.9	766.0	787.6	750.9	759.9	757.4
55°	1067.9	1043.3	1053.3	1017.1	1007.5	1042.3	1055.3	1080.5	1031.7	1036.7	1034.2
57.5°	1347.7	1346.2	1363.3	1337.7	1329.1	1353.8	1341.7	1363.8	1337.7	1356.3	1350.3
60°	1538.5	1542.5	1559.6	1567.2	1552.1	1565.2	1536.0	1552.6	1544.5	1571.7	1569.2
62.5°	1637.6	1650.7	1640.6	1641.1	1624.5	1634.6	1629.1	1638.6	1636.6	1639.1	1636.6
65°	1639.6	1655.7	1633.6	1623.5	1616.5	1620.5	1630.1	1630.1	1624.0	1605.9	1609.9
67.5°	1532.4	1556.6	1531.9	1517.8	1521.9	1520.4	1526.9	1518.3	1514.8	1488.2	1488.7
70°	1268.7	1307.5	1271.2	1258.2	1268.7	1275.3	1274.8	1267.7	1262.2	1229.0	1238.5
72.5°	963.2	997.5	965.3	960.2	970.3	980.4	971.8	980.4	971.3	956.2	960.7
75°	727.2	756.4	756.4	775.5	778.6	773.0	749.4	758.9	765.0	765.5	770.0
77.5°	535.0	565.7	581.8	613.0	611.5	601.9	573.2	584.3	595.9	603.9	609.5
80°	380.5	403.6	427.3	449.4	452.4	444.4	426.8	433.3	440.4	445.9	448.9
82.5°	294.9	305.5	301.0	298.4	302.5	314.0	318.1	322.1	312.0	305.5	308.0
85°	257.2	258.2	266.2	271.8	273.3	273.3	269.2	272.3	274.8	281.3	281.3
87.5°	234.5	235.5	255.7	261.2	263.2	260.7	255.7	257.7	259.7	263.7	263.7
90°	208.4	211.4	231.5	236.0	238.0	234.0	232.5	234.0	231.5	233.0	233.0
92.5°	193.8	193.8	203.3	201.3	200.8	201.3	201.8	203.3	200.8	199.8	199.8
95°	177.1	179.7	177.1	179.2	178.7	176.1	175.1	176.1	174.6	174.6	175.6
97.5°	148.5	149.0	144.4	145.9	145.9	143.9	141.4	142.4	140.9	141.9	142.4
100°	138.9	137.4	129.8	128.8	128.3	126.8	125.3	125.3	124.8	124.3	124.8
102.5°	135.9	135.9	125.8	123.8	122.8	120.3	118.3	118.3	118.3	118.3	118.8
105°	124.3	127.8	120.3	118.8	117.3	114.2	111.2	110.7	111.7	110.7	112.2
107.5°	112.7	115.8	111.7	111.7	110.2	107.2	105.2	104.7	105.2	104.2	105.2
110°	106.2	107.7	103.2	103.2	102.2	99.6	99.1	98.6	98.6	97.1	98.1



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 CATALOG NUMBER: FFX-CLB-30-730-U-FR-T5-UPLR

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	98.1	98.1	94.6	93.6	93.6	92.1	91.6	91.1	91.1	91.1	91.6
115°	97.6	97.1	91.6	88.1	87.6	87.1	87.6	87.1	87.1	86.6	86.6
117.5°	119.3	114.2	95.6	87.1	87.1	87.6	89.6	88.1	84.5	84.5	84.0
120°	128.8	129.8	110.2	101.2	99.1	96.6	96.1	95.1	91.6	91.1	93.1
122.5°	113.7	118.8	106.7	103.2	101.2	98.1	96.1	95.6	95.6	93.1	96.6
125°	88.6	93.1	87.1	86.6	86.1	86.6	85.6	85.6	86.6	85.1	85.6
127.5°	76.0	78.0	75.5	75.5	75.0	74.5	73.5	74.0	73.5	74.0	74.5
130°	73.0	74.5	72.0	71.0	71.0	71.5	71.5	71.5	70.0	68.9	69.5
132.5°	72.5	72.0	67.9	65.9	65.9	69.5	71.0	71.0	67.4	64.9	64.9
135°	65.4	65.9	65.4	62.9	63.4	64.4	65.9	66.4	62.9	61.4	61.9
137.5°	62.9	64.4	64.9	63.9	63.9	62.9	62.4	62.9	61.9	62.4	62.4
140°	62.9	63.4	64.9	65.9	64.9	63.9	63.9	63.9	64.4	65.9	66.9
142.5°	64.4	64.9	64.4	63.9	65.4	67.9	70.0	70.0	68.4	67.4	67.9
145°	74.0	75.5	75.5	74.0	75.0	74.0	74.0	73.0	73.0	73.0	73.5
147.5°	70.5	70.0	71.0	72.5	71.0	70.5	70.5	71.0	72.0	72.5	73.0
150°	55.4	53.8	54.9	57.9	57.4	57.4	57.4	57.9	58.4	58.4	58.9
152.5°	43.8	43.8	44.8	44.8	45.3	45.3	44.8	44.8	44.8	45.3	45.3
155°	39.3	38.8	39.8	41.3	40.3	40.3	40.3	40.3	40.3	40.3	40.8
157.5°	34.2	33.7	33.7	34.2	34.2	34.2	34.2	34.7	34.7	34.2	34.7
160°	31.2	31.2	30.7	30.7	30.7	31.2	31.7	31.7	31.2	30.7	30.7
162.5°	29.7	29.7	28.7	28.2	28.2	28.7	29.7	29.7	28.7	28.2	28.2
165°	29.7	29.2	27.7	26.7	26.7	27.7	29.2	29.2	27.7	26.7	26.7
167.5°	29.2	29.2	28.2	27.2	27.2	28.2	28.7	29.2	28.7	27.7	27.2
170°	28.2	28.2	28.7	28.7	28.2	28.2	28.2	28.2	28.7	28.7	28.7
172.5°	29.2	28.7	29.2	29.7	29.7	29.2	28.7	28.7	29.2	29.7	29.7
175°	29.7	29.7	29.2	29.2	29.2	28.7	28.7	28.7	29.2	29.7	29.2
177.5°	26.7	26.7	26.2	26.7	26.7	26.7	26.2	26.7	26.7	26.7	27.2
180°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2



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



**Test Conditions**

Stabilization Time: 0.794393M  
 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 3000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

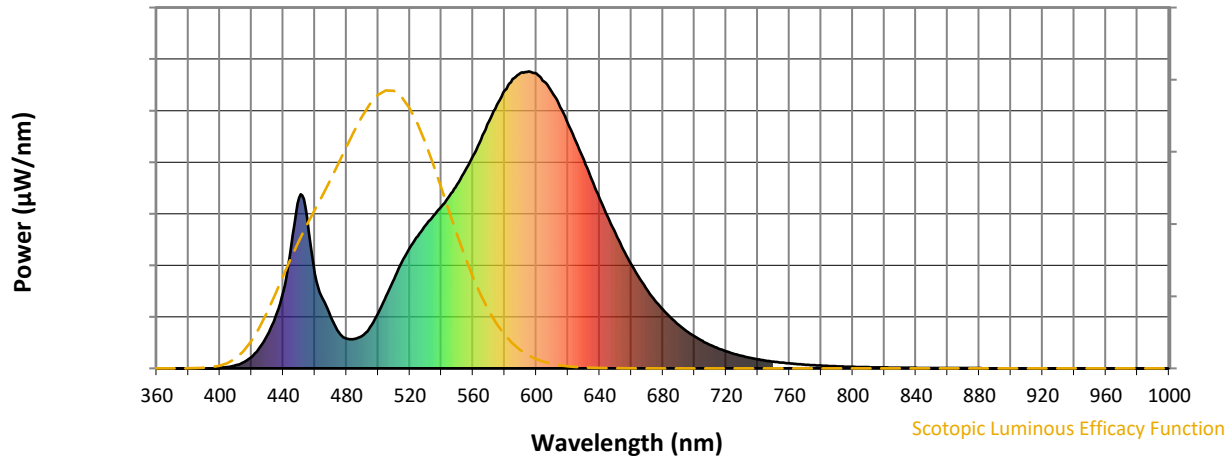


**Photopic Lumens: NR**

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			

REPORT NUMBER: SP1-2406-133-4

Scotopic Flux vs. Wavelength



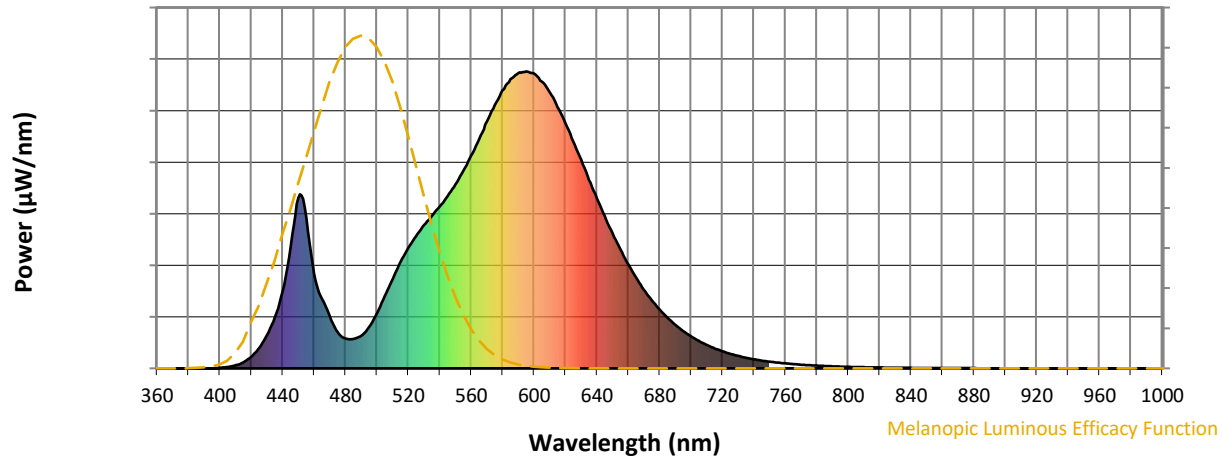
Scotopic Lumens: NR

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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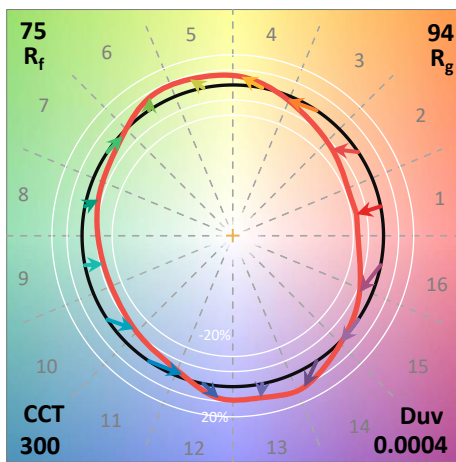
TM-30-18

**Summary**

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



**Color Vector Graphics**





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

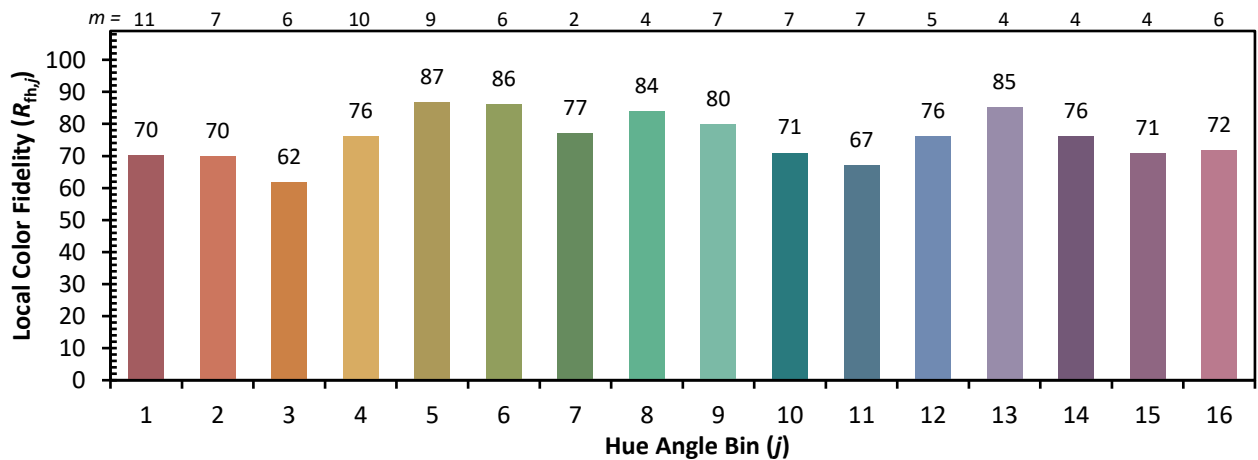
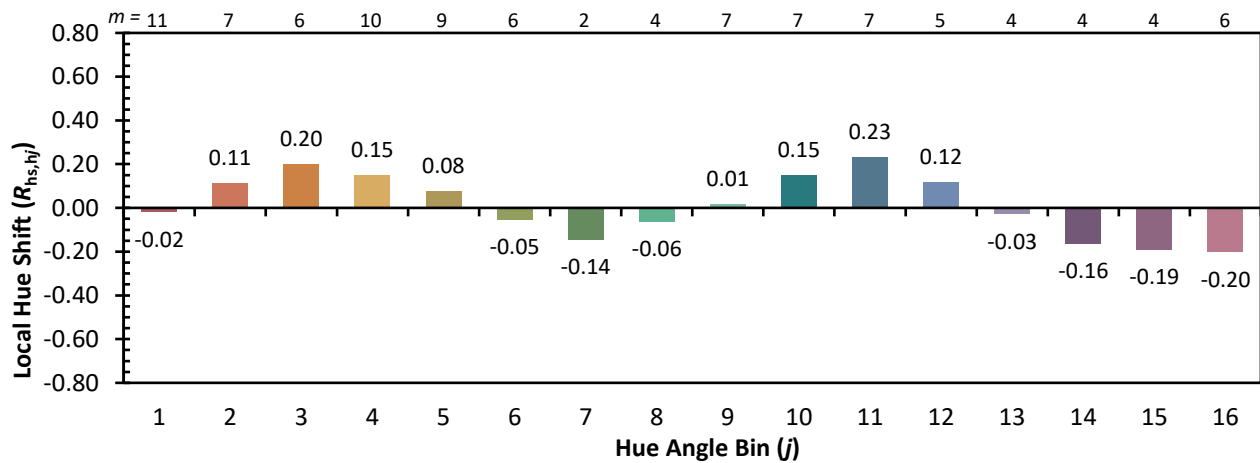
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CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 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
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
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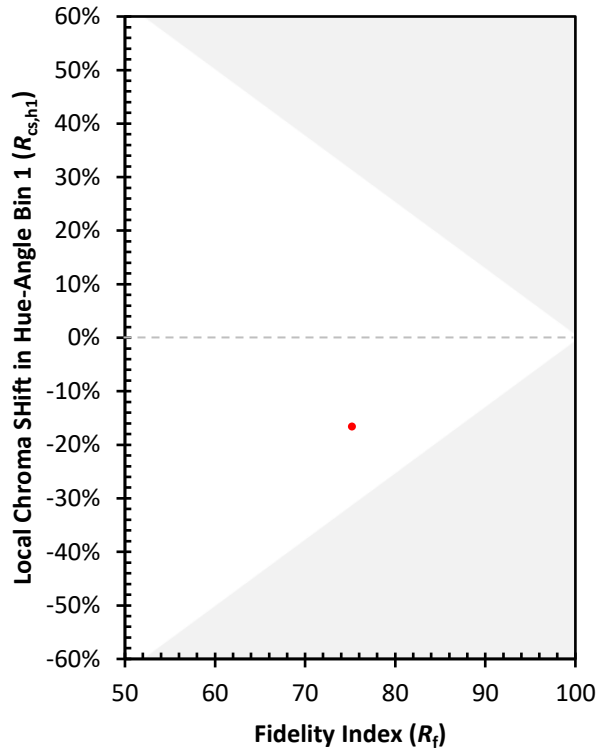
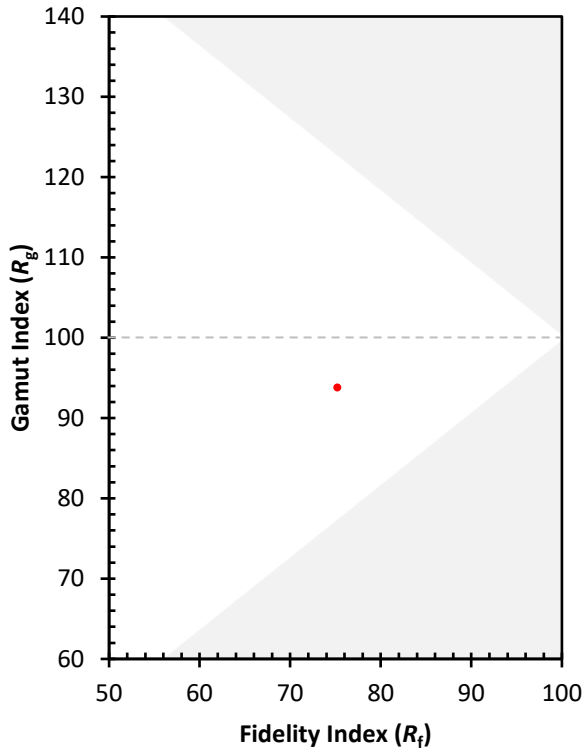
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)