

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: P856188

Luminaire Tested: **FFX-CLB-40-750-U-FR-T5-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856188  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-40-750-U-FR-T5-UPLR  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR  
Light Source: (6) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

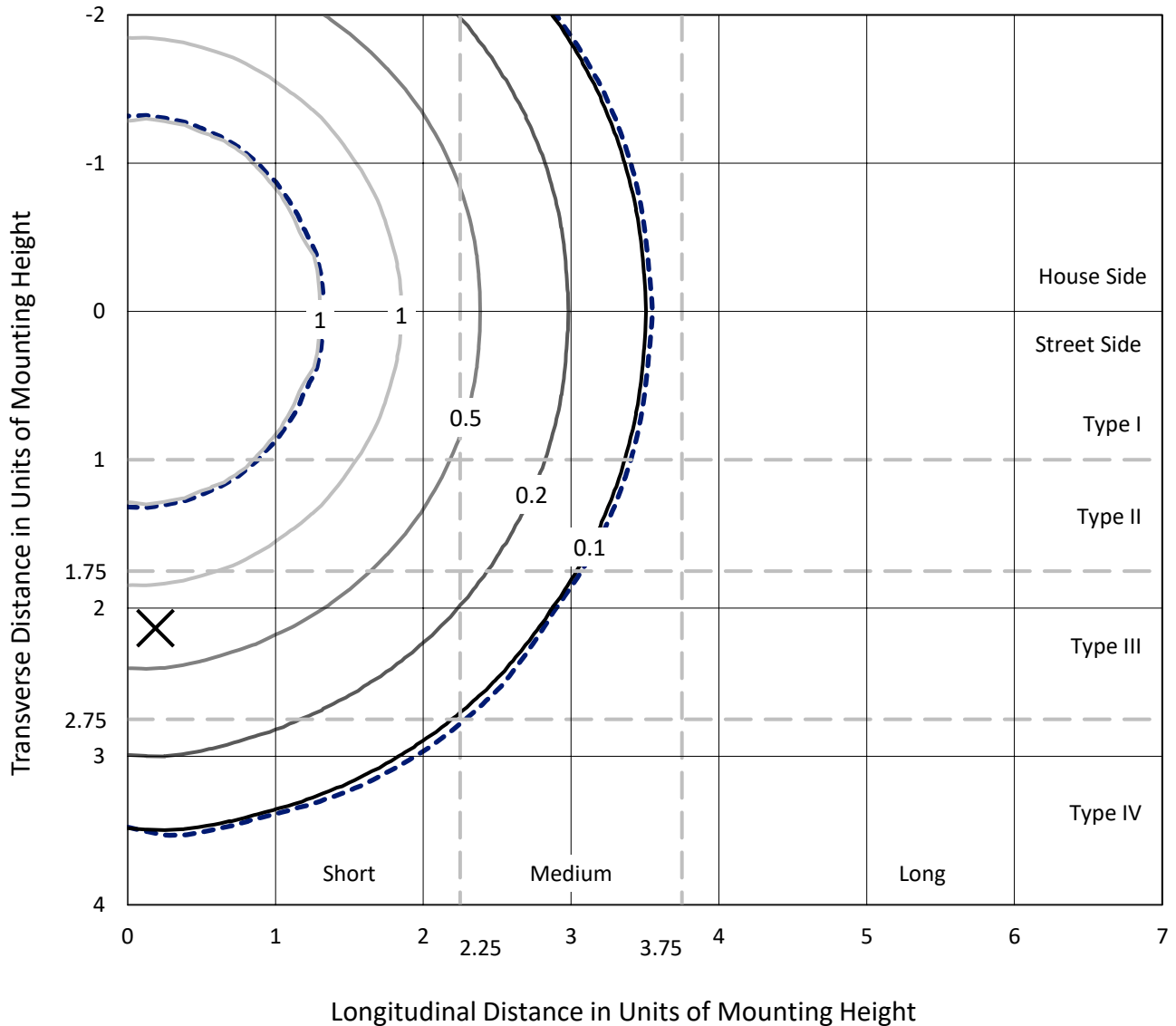
Lumens per Lamp: N/A  
Luminaire Lumens: 6259.3 lumens  
Efficiency: N/A  
Efficacy: 159.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type V - Short  
BUG Rating: B3 - U4 - G2

Input Watts (W): 39.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 8.2%%  
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

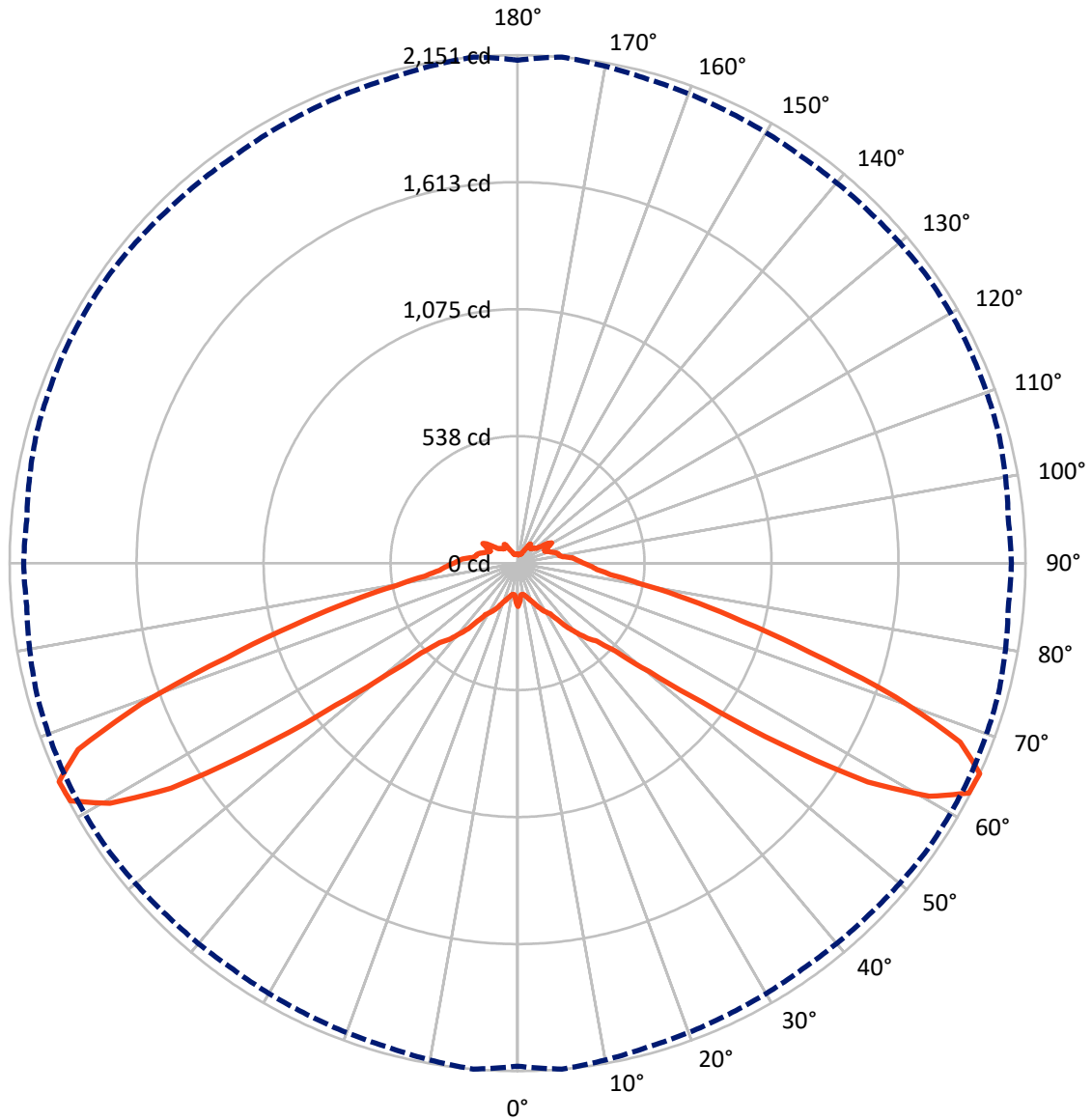
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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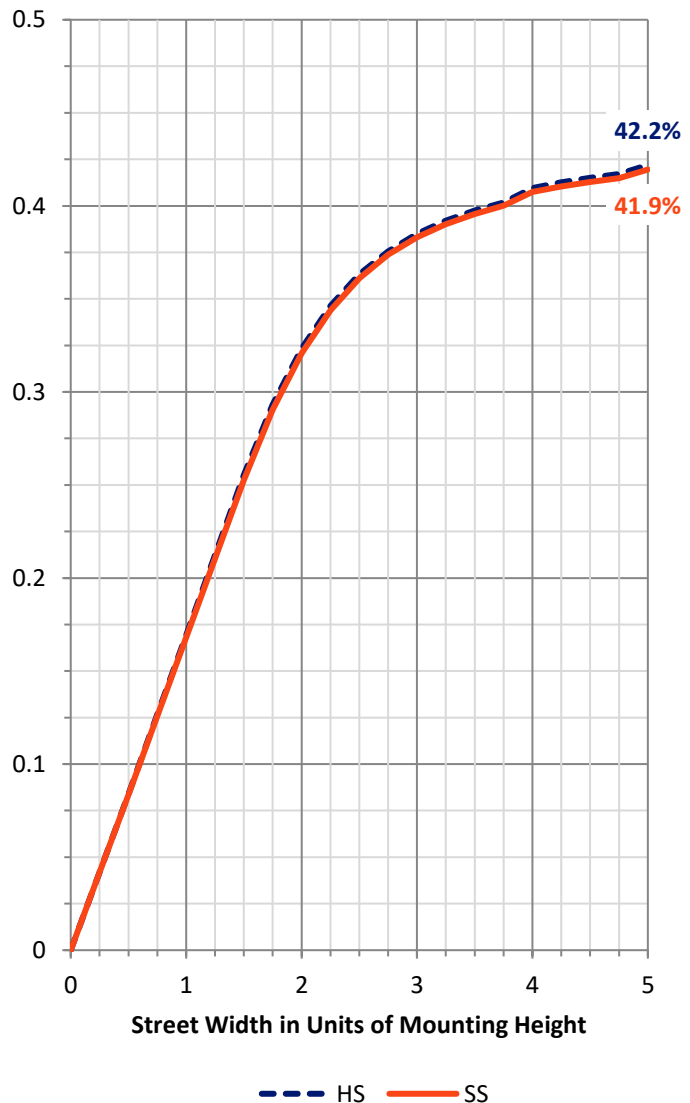
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2734.1	395.5	3129.6
	% Fixture	43.7	6.3	50.0
<b>Street Side</b>	Lumens	2734.1	395.5	3129.6
	% Fixture	43.7	6.3	50.0
<b>Total</b>	Lumens	5468.3	791.0	6259.3
	% Fixture	87.4	12.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.3	0.2
10°-20°	43.9	0.7
20°-30°	95.3	1.5
30°-40°	193.0	3.1
40°-50°	389.1	6.2
50°-60°	1236.9	19.8
60°-70°	1994.8	31.9
70°-80°	1087.8	17.4
80°-90°	414.2	6.6
90°-100°	248.6	4.0
100°-110°	158.5	2.5
110°-120°	120.6	1.9
120°-130°	102.0	1.6
130°-140°	66.5	1.1
140°-150°	55.7	0.9
150°-160°	25.0	0.4
160°-170°	10.6	0.2
170°-180°	3.5	0.1
0°-90°	5468.3	87.4
0°-180°	6259.3	100.0



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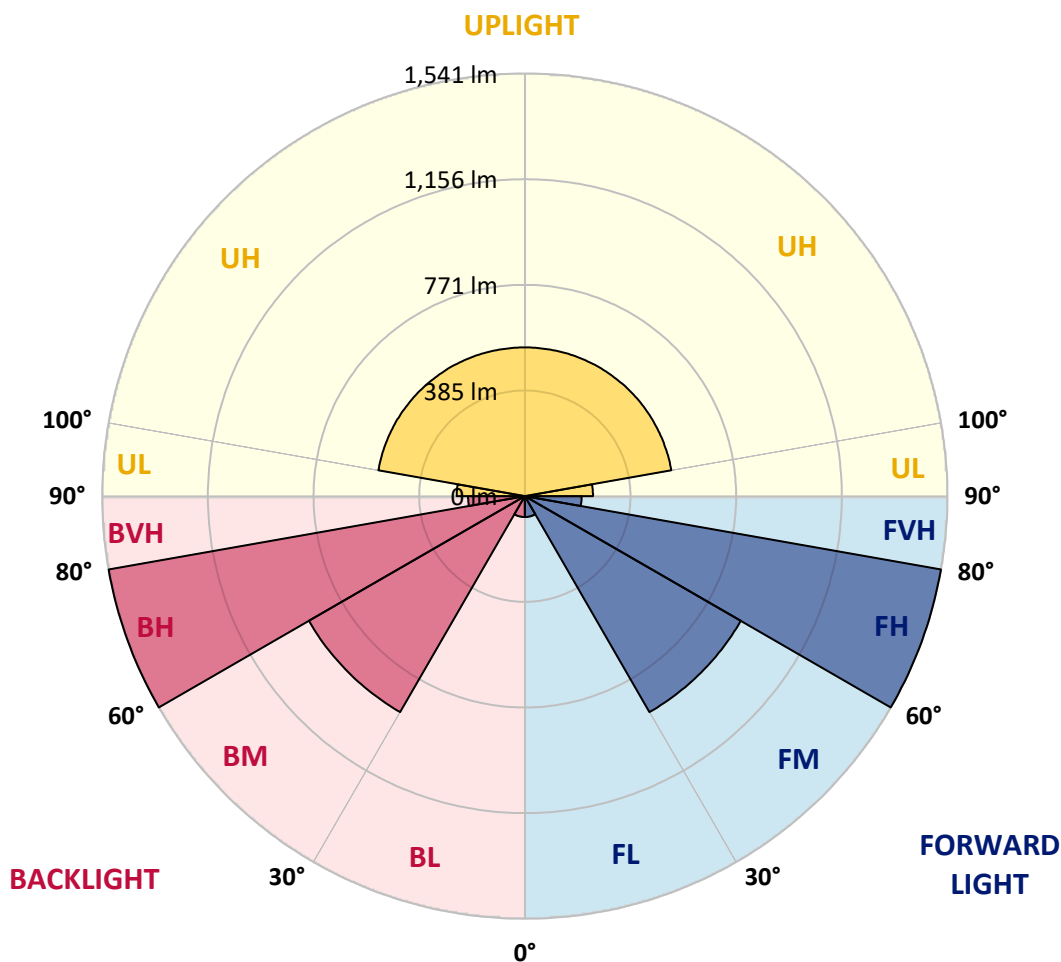
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T5-UPLR

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	76.3	1.2			
FM (30°-60°)	909.5	14.5			
FH (60°-80°)	1541.3	24.6			G1/1800
FVH (80°-90°)	207.1	3.3			G2/225
BL (0°-30°)	76.3	1.2	B0/110		
BM (30°-60°)	909.5	14.5	B1/1000		
BH (60°-80°)	1541.3	24.6	B3/2500		G1/1800
BVH (80°-90°)	207.1	3.3			G2/225
UL (90°-100°)	248.6	4.0		U3/500	
UH (100°-180°)	542.4	8.7		U4/1000	

**BUG Rating: B3-U4-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7
2.5°	164.1	166.7	159.5	153.6	151.0	151.7	157.5	163.4	157.5	159.5	159.5
5°	136.0	136.6	136.6	135.3	137.3	133.4	128.8	128.8	133.4	138.6	138.6
7.5°	131.4	133.4	138.6	138.6	140.5	134.0	127.5	128.1	134.7	142.5	144.5
10°	135.3	135.3	134.0	135.3	139.9	139.2	132.0	128.8	133.4	141.2	143.8
12.5°	141.2	141.2	145.1	151.0	151.7	145.8	138.6	137.9	143.2	148.4	148.4
15°	149.7	150.3	152.3	151.7	153.6	151.7	149.7	151.0	154.3	154.3	154.3
17.5°	160.8	160.8	160.8	160.8	160.8	161.5	162.1	162.1	162.1	163.4	163.4
20°	173.2	173.2	172.6	171.9	171.9	172.6	173.2	173.2	173.2	174.5	174.5
22.5°	188.9	188.3	187.0	187.0	187.0	187.6	186.3	185.6	185.0	185.6	185.6
25°	207.2	207.2	205.9	203.9	203.9	203.3	201.3	200.7	200.0	201.3	200.7
27.5°	225.5	225.5	223.6	220.9	220.9	220.9	219.6	218.3	217.0	217.7	217.7
30°	242.5	241.2	240.6	238.6	237.9	238.6	237.3	237.3	234.7	234.0	235.3
32.5°	258.2	256.9	258.2	256.2	254.3	256.2	255.6	255.6	251.7	250.4	251.7
35°	301.3	298.1	300.7	296.1	293.5	294.2	295.5	298.1	294.2	292.2	292.8
37.5°	347.8	347.1	355.6	362.8	361.5	350.4	343.2	344.5	349.7	356.9	356.9
40°	390.9	389.6	391.6	388.9	388.9	387.6	387.0	390.2	379.8	377.2	375.2
42.5°	436.0	435.3	424.2	408.5	405.3	418.4	424.2	428.8	413.8	408.5	404.6
45°	480.5	471.3	469.3	464.1	458.9	467.4	466.7	470.0	462.8	462.2	458.9
47.5°	573.9	556.9	551.1	551.7	540.6	549.7	553.7	564.1	549.1	549.7	549.1
50°	742.6	721.0	730.8	724.3	712.5	723.6	723.0	741.9	717.1	726.2	722.3
52.5°	1006.0	976.6	982.5	978.6	966.8	989.7	994.9	1023.0	975.3	987.1	983.8
55°	1387.1	1355.1	1368.1	1321.1	1308.7	1353.8	1370.8	1403.4	1340.0	1346.6	1343.3
57.5°	1750.6	1748.6	1770.8	1737.5	1726.4	1758.4	1742.7	1771.5	1737.5	1761.7	1753.8
60°	1998.3	2003.5	2025.7	2035.6	2015.9	2032.9	1995.0	2016.6	2006.1	2041.4	2038.2
62.5°	2127.1	2144.1	2131.0	2131.6	2110.1	2123.1	2116.0	2128.4	2125.8	2129.0	2125.8
65°	2129.7	2150.6	2121.8	2108.8	2099.6	2104.8	2117.3	2117.3	2109.4	2085.9	2091.1
67.5°	1990.5	2021.8	1989.8	1971.5	1976.7	1974.8	1983.3	1972.1	1967.6	1932.9	1933.6
70°	1647.9	1698.3	1651.2	1634.2	1647.9	1656.4	1655.8	1646.6	1639.4	1596.3	1608.7
72.5°	1251.1	1295.6	1253.8	1247.2	1260.3	1273.4	1262.3	1273.4	1261.6	1242.0	1247.9
75°	944.6	982.5	982.5	1007.3	1011.2	1004.1	973.3	985.7	993.6	994.2	1000.1
77.5°	694.9	734.7	755.7	796.2	794.2	781.8	744.5	758.9	774.0	784.4	791.6
80°	494.2	524.3	555.0	583.7	587.7	577.2	554.3	562.8	572.0	579.2	583.1
82.5°	383.1	396.8	390.9	387.6	392.9	407.9	413.1	418.4	405.3	396.8	400.1
85°	334.0	335.3	345.8	353.0	354.9	354.9	349.7	353.6	356.9	365.4	365.4
87.5°	304.6	305.9	332.1	339.3	341.9	338.6	332.1	334.7	337.3	342.5	342.5
90°	270.6	274.5	300.7	306.6	309.2	304.0	302.0	304.0	300.7	302.7	302.7
92.5°	251.7	251.7	264.1	261.5	260.8	261.5	262.1	264.1	260.8	259.5	259.5
95°	230.1	233.4	230.1	232.7	232.1	228.8	227.5	228.8	226.8	226.8	228.1
97.5°	192.8	193.5	187.6	189.6	189.6	187.0	183.7	185.0	183.0	184.3	185.0
100°	180.4	178.5	168.6	167.3	166.7	164.7	162.8	162.8	162.1	161.5	162.1
102.5°	176.5	176.5	163.4	160.8	159.5	156.2	153.6	153.6	153.6	153.6	154.3
105°	161.5	166.0	156.2	154.3	152.3	148.4	144.5	143.8	145.1	143.8	145.8
107.5°	146.4	150.3	145.1	145.1	143.2	139.2	136.6	136.0	136.6	135.3	136.6
110°	137.9	139.9	134.0	134.0	132.7	129.4	128.8	128.1	128.1	126.2	127.5



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 CATALOG NUMBER: FFX-CLB-40-750-U-FR-T5-UPLR

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	127.5	127.5	122.9	121.6	121.6	119.6	119.0	118.3	118.3	118.3	119.0
115°	126.8	126.2	119.0	114.4	113.7	113.1	113.7	113.1	113.1	112.4	112.4
117.5°	154.9	148.4	124.2	113.1	113.1	113.7	116.4	114.4	109.8	109.8	109.2
120°	167.3	168.6	143.2	131.4	128.8	125.5	124.9	123.5	119.0	118.3	120.9
122.5°	147.7	154.3	138.6	134.0	131.4	127.5	124.9	124.2	124.2	120.9	125.5
125°	115.0	120.9	113.1	112.4	111.8	112.4	111.1	111.1	112.4	110.5	111.1
127.5°	98.7	101.3	98.1	98.1	97.4	96.7	95.4	96.1	95.4	96.1	96.7
130°	94.8	96.7	93.5	92.2	92.2	92.8	92.8	92.8	90.9	89.6	90.2
132.5°	94.1	93.5	88.2	85.6	85.6	90.2	92.2	92.2	87.6	84.3	84.3
135°	85.0	85.6	85.0	81.7	82.4	83.7	85.6	86.3	81.7	79.7	80.4
137.5°	81.7	83.7	84.3	83.0	83.0	81.7	81.1	81.7	80.4	81.1	81.1
140°	81.7	82.4	84.3	85.6	84.3	83.0	83.0	83.0	83.7	85.6	86.9
142.5°	83.7	84.3	83.7	83.0	85.0	88.2	90.9	90.9	88.9	87.6	88.2
145°	96.1	98.1	98.1	96.1	97.4	96.1	96.1	94.8	94.8	94.8	95.4
147.5°	91.5	90.9	92.2	94.1	92.2	91.5	91.5	92.2	93.5	94.1	94.8
150°	71.9	69.9	71.3	75.2	74.5	74.5	74.5	75.2	75.8	75.8	76.5
152.5°	56.9	56.9	58.2	58.2	58.8	58.8	58.2	58.2	58.2	58.8	58.8
155°	51.0	50.3	51.6	53.6	52.3	52.3	52.3	52.3	52.3	52.3	52.9
157.5°	44.5	43.8	43.8	44.5	44.5	44.5	44.5	45.1	45.1	44.5	45.1
160°	40.5	40.5	39.9	39.9	39.9	40.5	41.2	41.2	40.5	39.9	39.9
162.5°	38.6	38.6	37.3	36.6	36.6	37.3	38.6	38.6	37.3	36.6	36.6
165°	38.6	37.9	36.0	34.6	34.6	36.0	37.9	37.9	36.0	34.6	34.6
167.5°	37.9	37.9	36.6	35.3	35.3	36.6	37.3	37.9	37.3	36.0	35.3
170°	36.6	36.6	37.3	37.3	36.6	36.6	36.6	36.6	37.3	37.3	37.3
172.5°	37.9	37.3	37.9	38.6	38.6	37.9	37.3	37.3	37.9	38.6	38.6
175°	38.6	38.6	37.9	37.9	37.9	37.3	37.3	37.3	37.9	38.6	37.9
177.5°	34.6	34.6	34.0	34.6	34.6	34.6	34.0	34.6	34.6	34.6	35.3
180°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

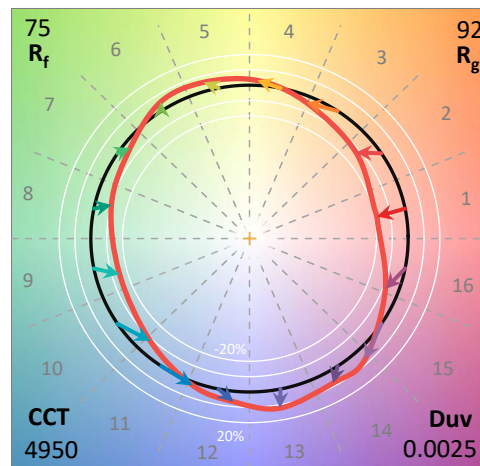
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-5  
 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-100-750-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 4950  
 CIE u': 0.2102  
 CIE v': 0.4882  
 Duv: 0.0025  
 CIE x: 0.3471  
 CIE y: 0.3583  
 CIE z: 0.2946  
 Peak Wavelength (nm): 452  
 Dominant Wavelength (nm): 571  
 Purity: 11.64963  
 Rf: 74.8  
 Rg: 92.4

CRI (Ra):	73.0		
R1:	69.1	R9:	-35.4
R2:	80.1	R10:	51.9
R3:	87.3	R11:	66.1
R4:	70.6	R12:	40.1
R5:	69.4	R13:	71.5
R6:	71.2	R14:	93.0
R7:	82.5	R15:	62.2
R8:	53.6		



**Test Conditions**

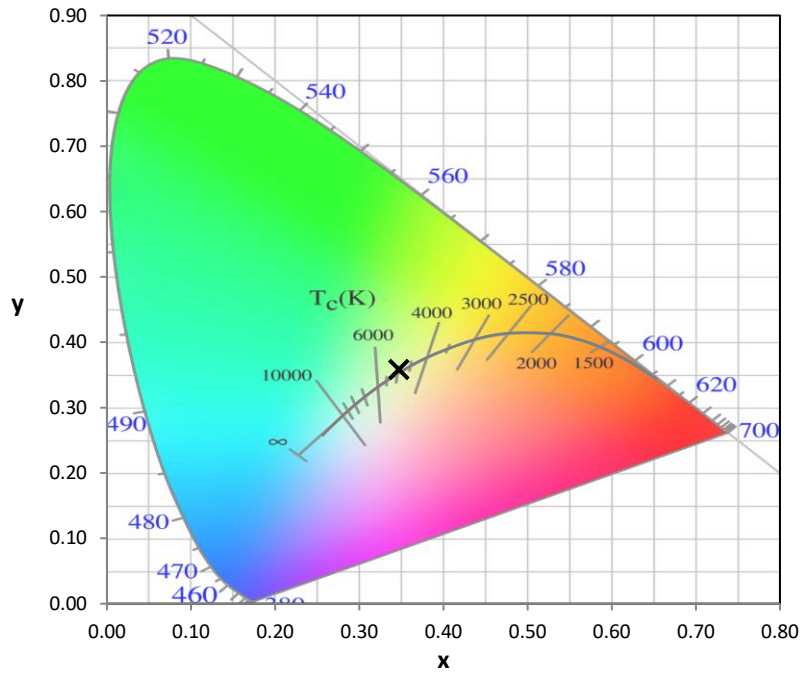
Stabilization Time: 0.803355M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

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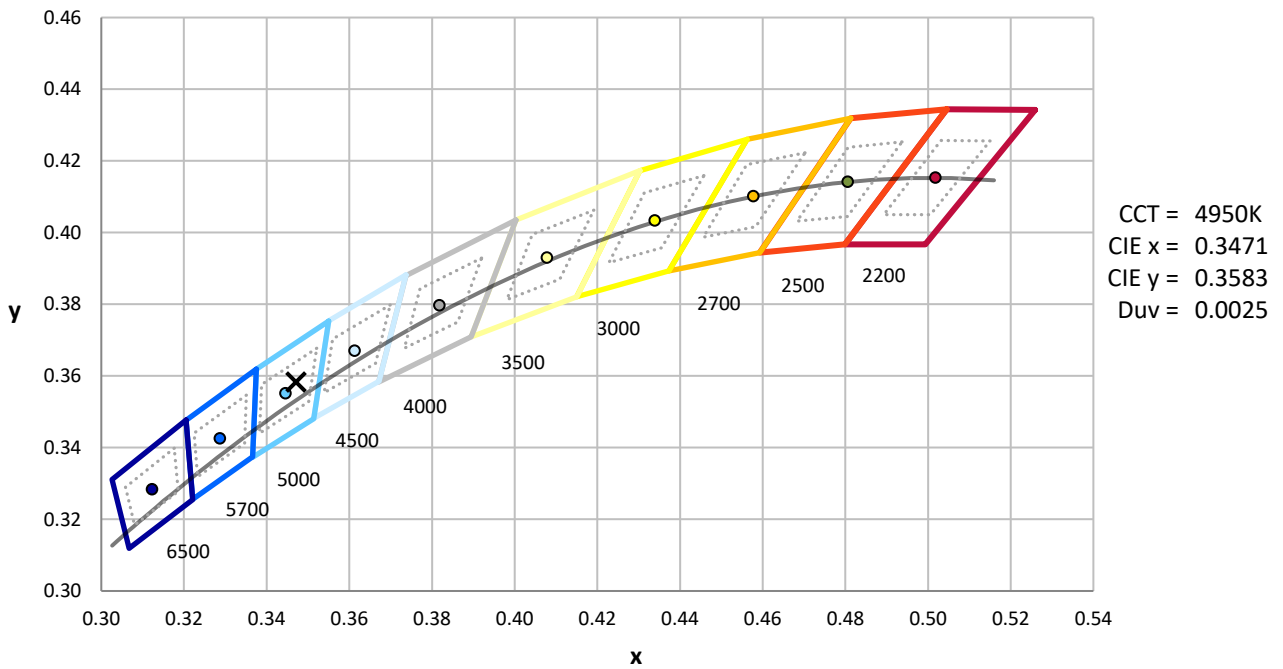
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



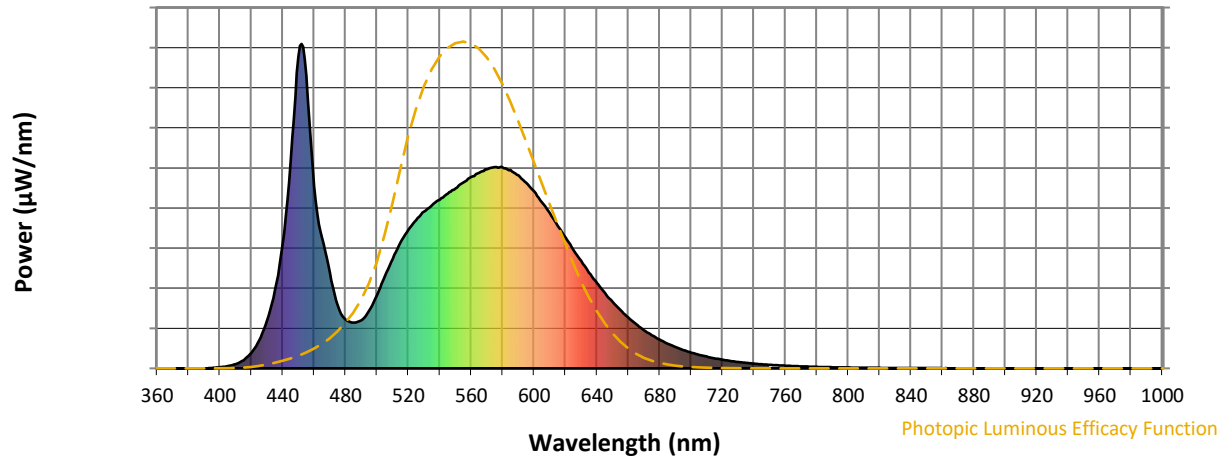
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

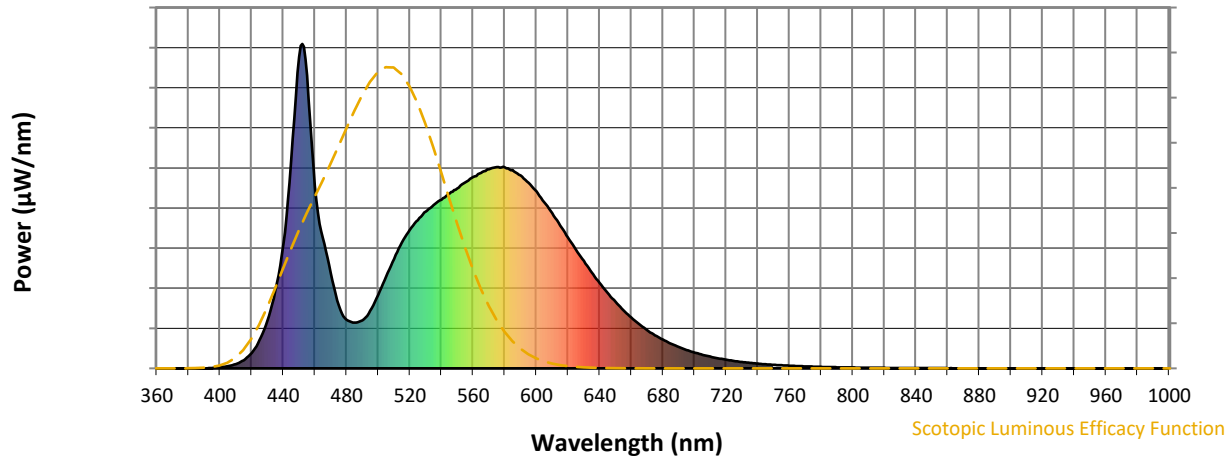


**Photopic Lumens: NR**

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

**S/P: 1.8**

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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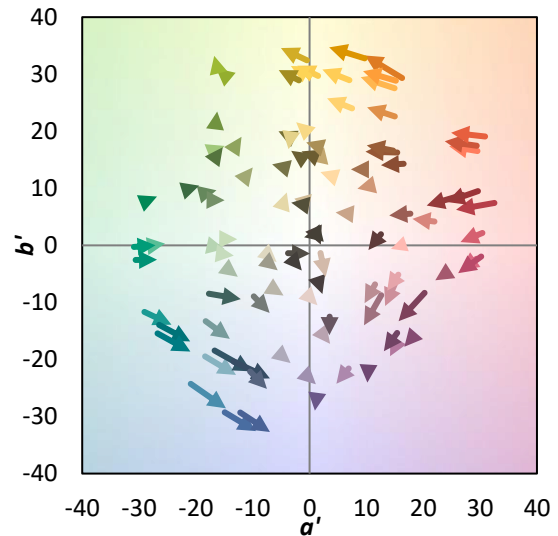
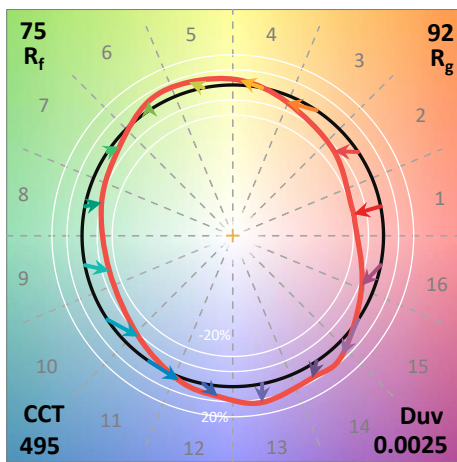
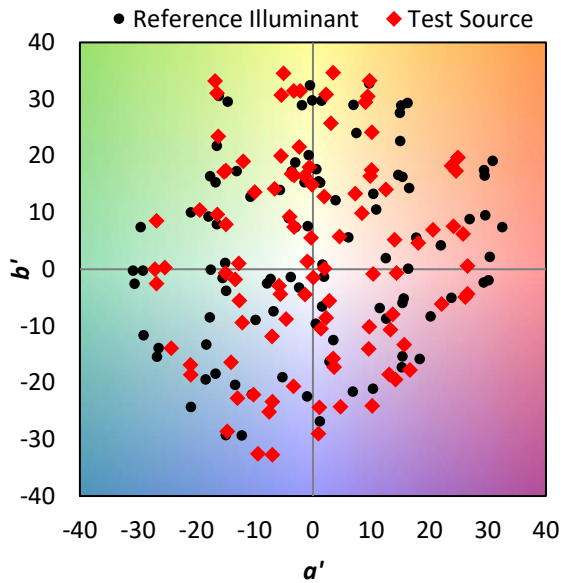
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**Summary**

$R_f = 74.8$   
 $R_g = 92.4$   
 CIE  $R_a = 73.0$   
 $R_g = -35.4$



**Color Vector Graphics**



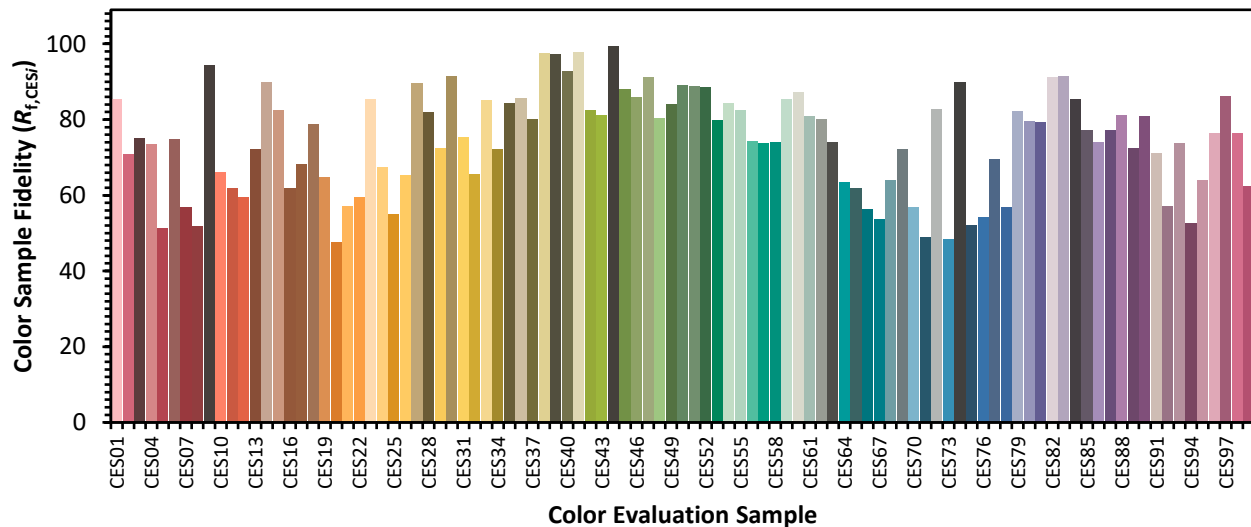


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

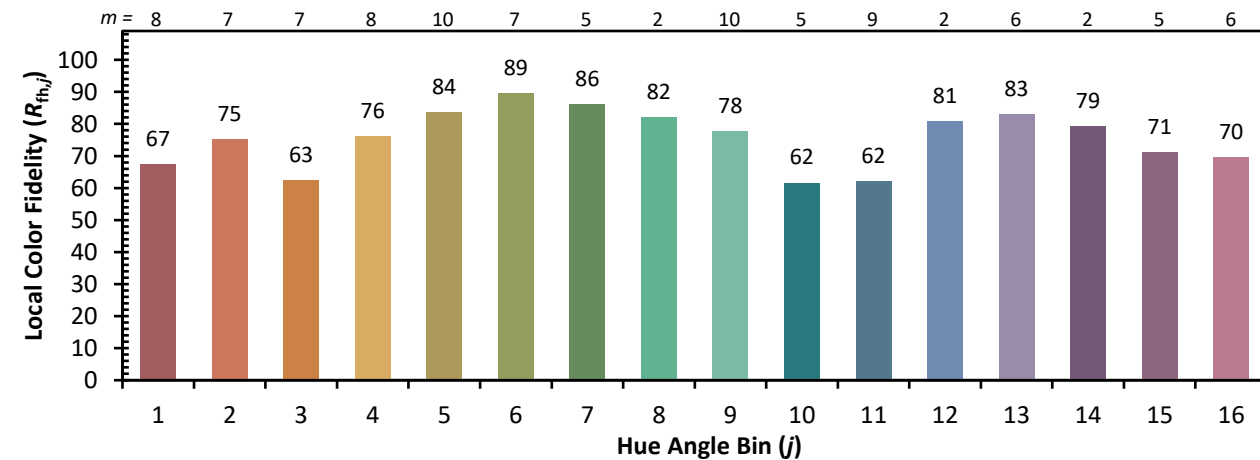
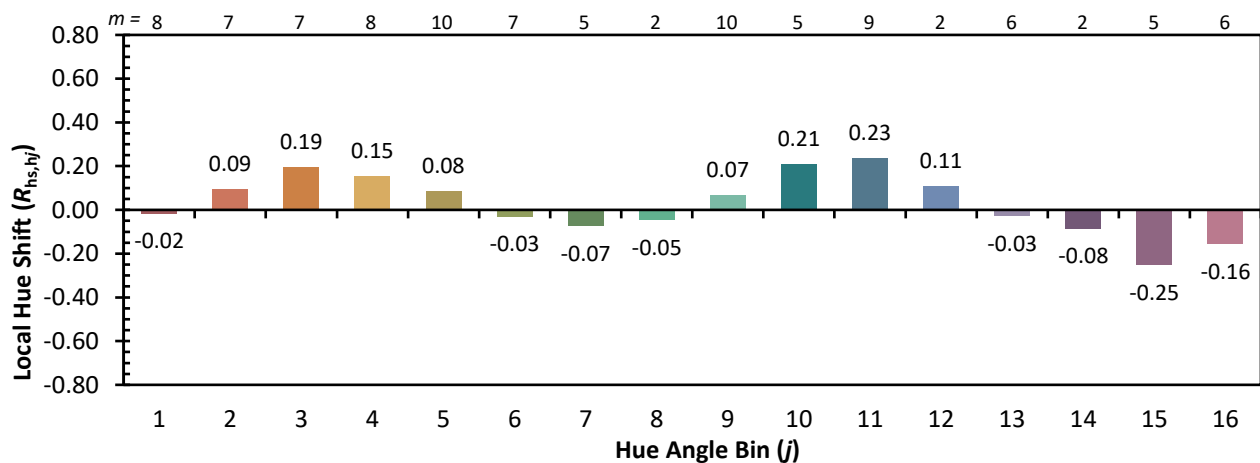
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CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 91
CES08 = 38	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 72	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 84	CES60 = 87	CES85 = 77
CES11 = 56	CES36 = 86	CES61 = 81	CES86 = 74
CES12 = 62	CES37 = 80	CES62 = 80	CES87 = 77
CES13 = 41	CES38 = 98	CES63 = 74	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 93	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 57
CES18 = 55	CES43 = 81	CES68 = 64	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 53
CES20 = 64	CES45 = 88	CES70 = 57	CES95 = 64
CES21 = 85	CES46 = 86	CES71 = 49	CES96 = 76
CES22 = 77	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 48	CES98 = 77
CES24 = 90	CES49 = 84	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 52	



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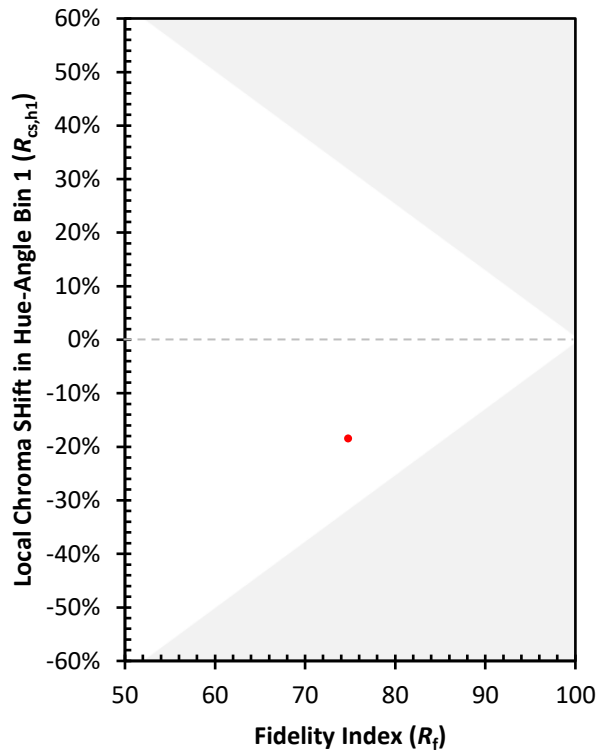
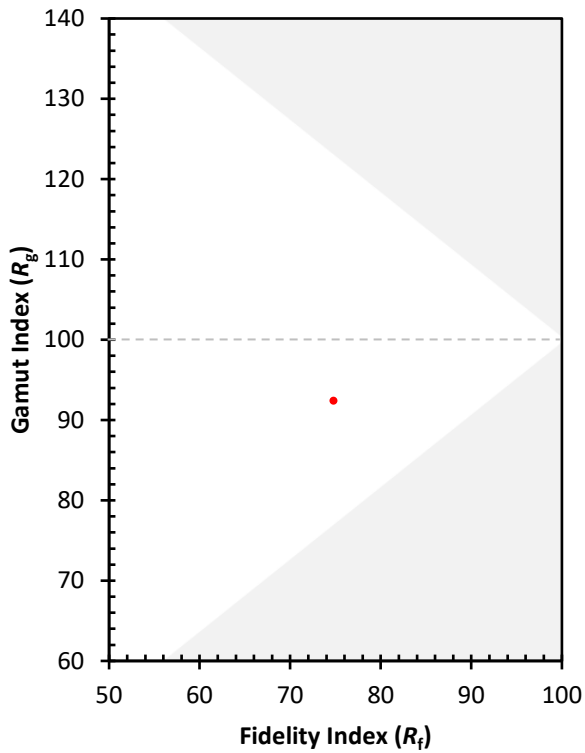
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)