

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: P856088

Luminaire Tested: **FFX-CLB-50-740-U-FR-T5**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856088  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-50-740-U-FR-T5  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS  
Light Source: (6) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

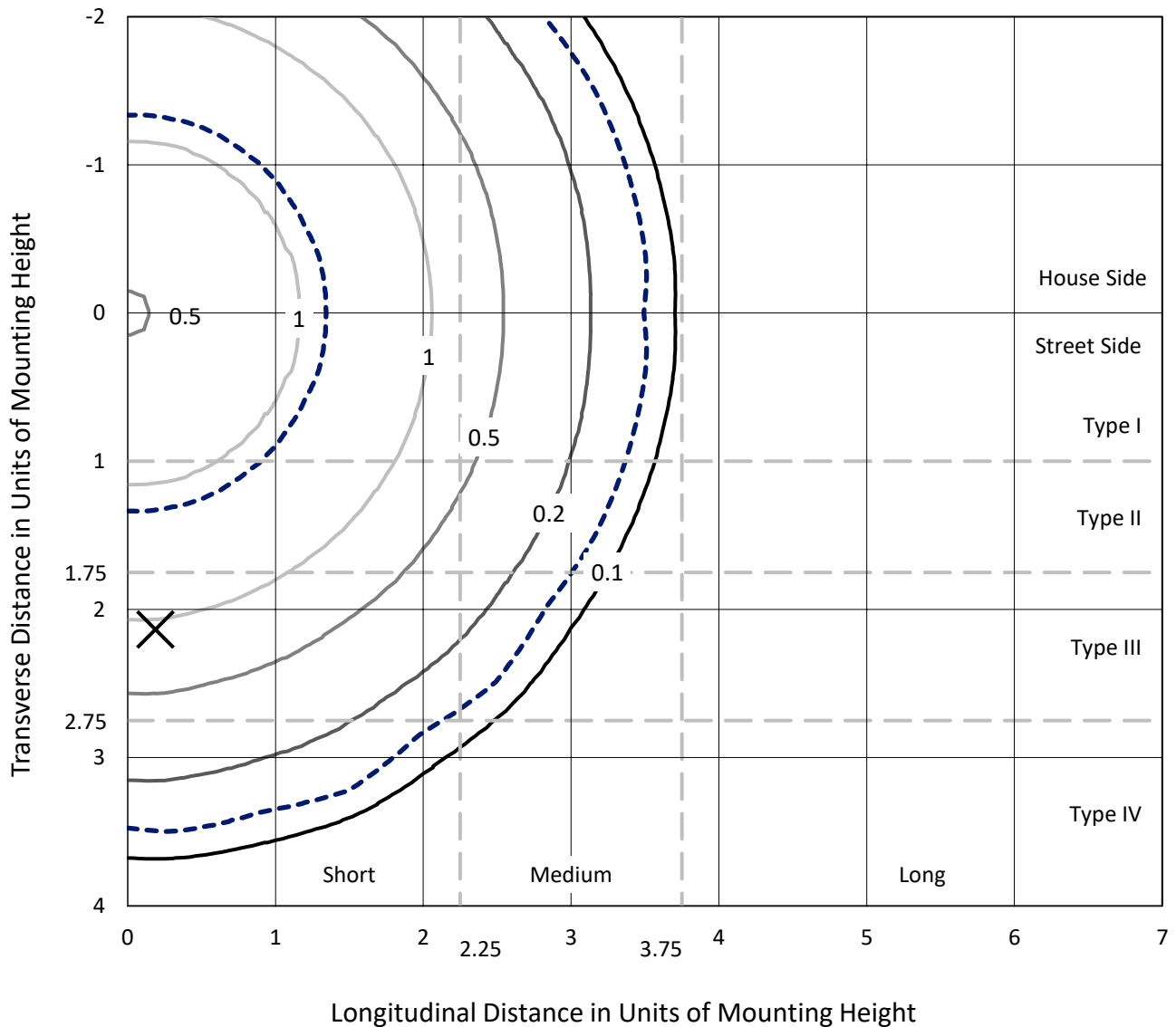
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8416.1 lumens  
Efficiency: N/A  
Efficacy: 166.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type V - Short  
BUG Rating: B3 - U5 - G3  
  
Input Watts (W): 50.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 6.0%%  
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

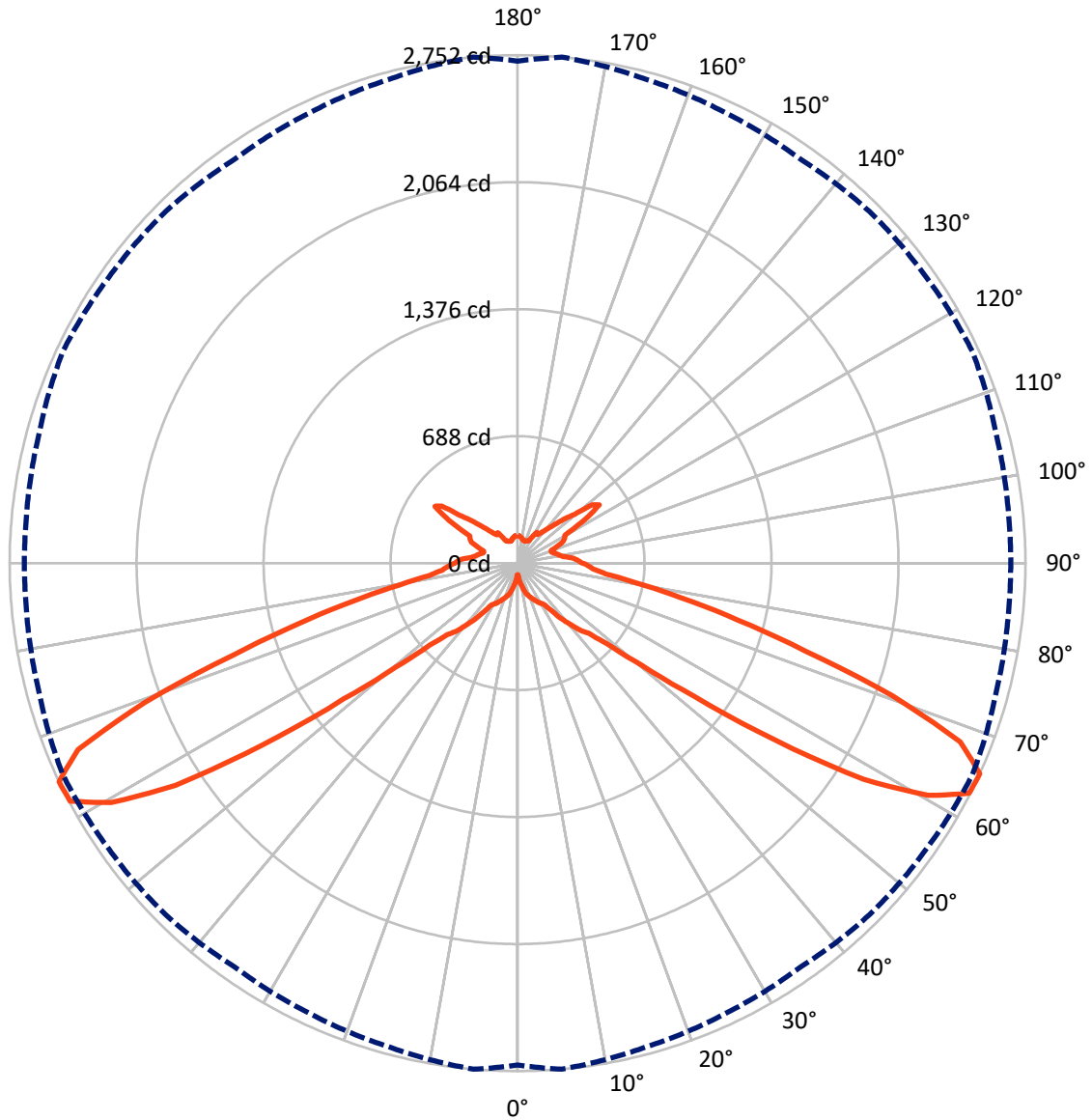
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 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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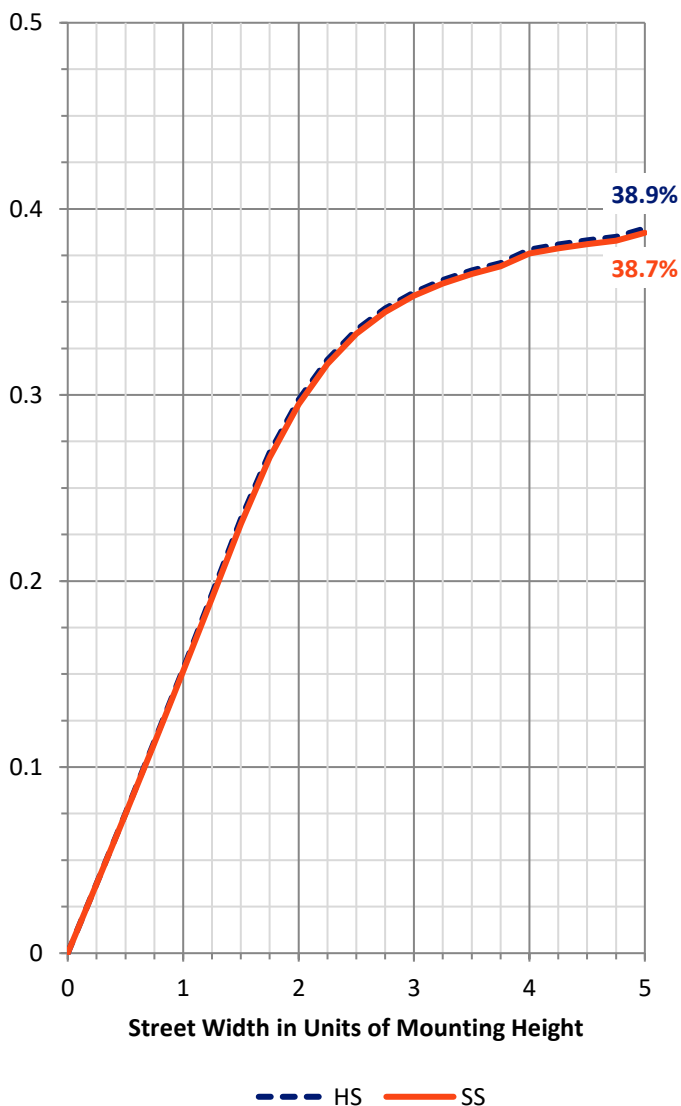
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3391.3	816.7	4208.0
	% Fixture	40.3	9.7	50.0
<b>Street Side</b>	Lumens	3391.3	816.7	4208.0
	% Fixture	40.3	9.7	50.0
<b>Total</b>	Lumens	6782.6	1633.4	8416.1
	% Fixture	80.6	19.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.6	0.1
10°-20°	48.1	0.6
20°-30°	104.4	1.2
30°-40°	207.2	2.5
40°-50°	449.4	5.3
50°-60°	1547.8	18.4
60°-70°	2542.2	30.2
70°-80°	1364.4	16.2
80°-90°	509.5	6.1
90°-100°	321.8	3.8
100°-110°	215.5	2.6
110°-120°	236.9	2.8
120°-130°	392.0	4.7
130°-140°	230.9	2.7
140°-150°	122.1	1.5
150°-160°	64.1	0.8
160°-170°	36.4	0.4
170°-180°	13.7	0.2
0°-90°	6782.6	80.6
0°-180°	8416.1	100.0



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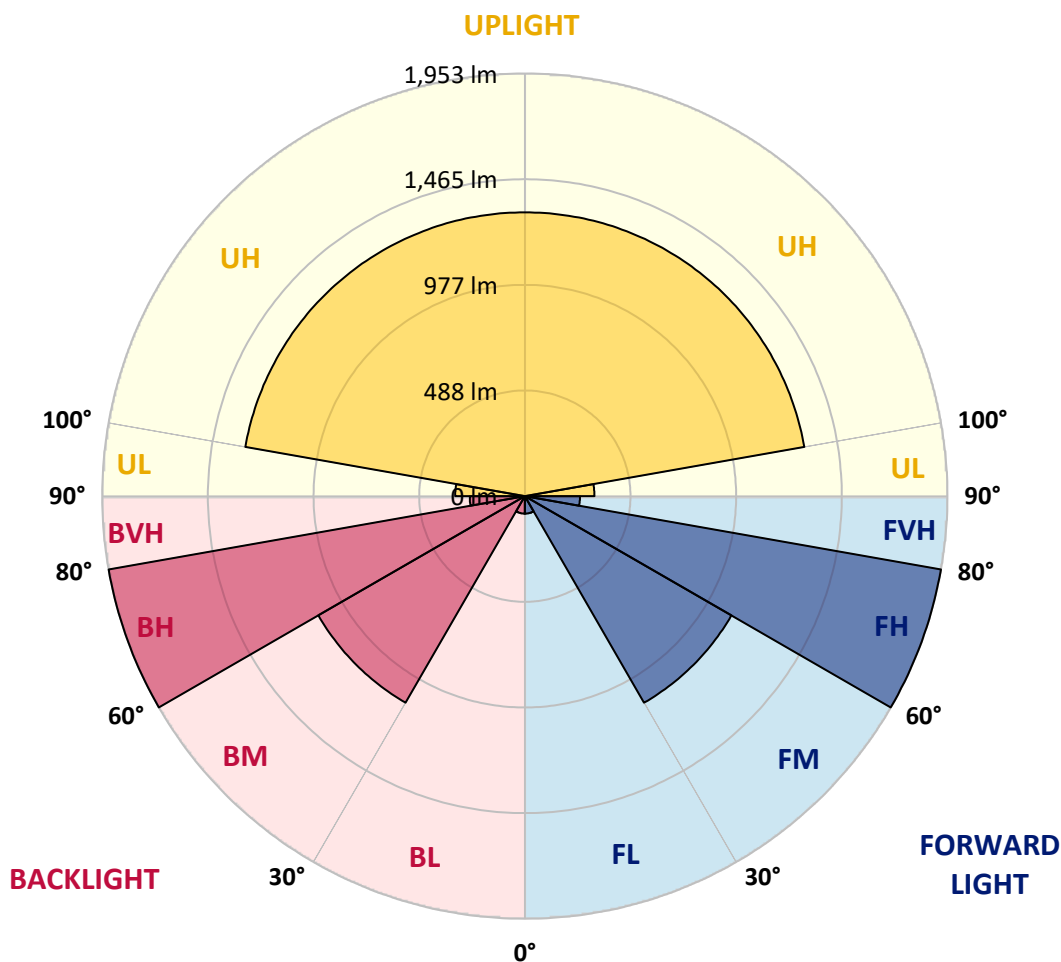
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	81.0	1.0			
FM (30°-60°)	1102.2	13.1			
FH (60°-80°)	1953.3	23.2			G2/5000
FVH (80°-90°)	254.8	3.0			G3/500
BL (0°-30°)	81.0	1.0	B0/110		
BM (30°-60°)	1102.2	13.1	B2/2500		
BH (60°-80°)	1953.3	23.2	B3/2500		G2/5000
BVH (80°-90°)	254.8	3.0			G3/500
UL (90°-100°)	321.8	3.8		U3/500	
UH (100°-180°)	1311.6	15.6		U5	

**BUG Rating: B3-U5-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	66.1	66.1	65.2	64.3	65.2	66.1	66.1	66.9	65.2	65.2	66.1
5°	88.4	88.4	88.4	87.5	85.8	85.8	84.9	87.5	88.4	89.2	89.2
7.5°	109.8	108.9	110.7	111.5	107.2	105.5	105.5	106.4	108.1	109.8	111.5
10°	124.4	123.5	124.4	127.8	127.0	124.4	124.4	124.4	127.0	131.2	132.1
12.5°	146.7	146.7	148.4	151.0	151.8	149.3	147.5	147.5	151.0	151.8	151.0
15°	170.7	170.7	169.8	169.0	169.8	169.0	169.0	169.8	172.4	171.6	171.6
17.5°	183.6	182.7	181.9	182.7	182.7	181.9	182.7	184.4	183.6	186.1	187.0
20°	197.3	197.3	195.6	195.6	195.6	196.4	197.3	196.4	197.3	198.2	199.0
22.5°	210.2	210.2	209.3	208.4	209.3	210.2	211.0	209.3	209.3	211.0	211.0
25°	224.7	224.7	224.7	222.2	223.0	223.9	223.0	222.2	223.0	223.9	224.7
27.5°	241.0	241.0	239.3	236.8	237.6	237.6	238.5	236.8	238.5	238.5	238.5
30°	254.8	253.1	252.2	250.5	250.5	252.2	253.9	251.3	252.2	252.2	253.1
32.5°	267.6	267.6	266.8	263.3	262.5	267.6	269.4	268.5	265.1	265.9	266.8
35°	315.7	315.7	309.7	303.7	308.8	308.0	314.8	314.8	314.8	316.5	320.0
37.5°	375.7	378.3	387.7	401.5	401.5	381.7	371.4	370.6	384.3	396.3	395.5
40°	428.9	431.5	428.9	430.6	428.9	429.8	430.6	428.9	421.2	418.6	413.5
42.5°	495.0	495.8	479.5	460.6	462.4	471.8	482.9	483.8	467.5	459.8	458.1
45°	541.3	543.0	537.0	534.4	534.4	537.8	537.0	537.0	531.0	530.1	528.4
47.5°	654.5	651.1	639.1	634.8	639.9	637.4	653.7	649.4	642.5	642.5	648.5
50°	868.1	864.7	865.5	861.2	875.0	855.2	875.0	869.8	859.5	864.7	869.0
52.5°	1217.2	1195.8	1198.4	1189.8	1213.8	1195.8	1228.4	1224.1	1190.6	1205.2	1206.1
55°	1719.9	1692.5	1690.7	1633.3	1677.9	1683.9	1725.1	1735.4	1670.2	1671.0	1675.3
57.5°	2218.3	2209.7	2237.2	2201.1	2232.9	2218.3	2217.4	2236.3	2198.6	2203.7	2217.4
60°	2548.6	2555.4	2586.3	2595.7	2606.9	2586.3	2544.3	2552.9	2550.3	2594.0	2597.5
62.5°	2725.3	2745.9	2723.6	2716.7	2707.3	2715.0	2709.8	2715.0	2699.5	2720.1	2721.0
65°	2719.3	2751.9	2711.5	2686.7	2671.2	2695.2	2702.1	2717.6	2685.0	2672.1	2672.1
67.5°	2546.8	2586.3	2522.8	2520.3	2482.5	2522.8	2511.7	2523.7	2498.0	2479.9	2462.8
70°	2118.8	2154.8	2078.5	2087.9	2022.7	2088.8	2071.6	2093.9	2073.3	2038.2	2017.6
72.5°	1596.4	1628.1	1571.5	1586.1	1543.2	1593.0	1566.4	1604.1	1591.2	1575.8	1558.6
75°	1207.8	1232.7	1236.1	1285.0	1233.5	1257.6	1209.5	1231.8	1253.3	1271.3	1252.4
77.5°	888.7	905.9	957.3	1011.4	960.8	977.9	929.9	951.3	971.0	1001.9	988.2
80°	627.9	647.6	694.8	735.1	698.3	713.7	682.8	694.8	710.3	732.6	718.0
82.5°	489.0	482.1	480.4	470.1	458.9	497.5	505.3	512.1	497.5	491.5	484.7
85°	410.0	411.8	422.0	434.9	434.9	435.8	428.0	431.5	437.5	448.6	449.5
87.5°	376.6	381.7	410.9	421.2	416.9	418.6	411.8	413.5	417.8	423.8	422.0
90°	332.0	344.8	372.3	382.6	375.7	379.2	375.7	378.3	374.9	376.6	373.1
92.5°	324.3	323.4	332.0	331.1	326.8	337.1	337.1	338.8	334.5	332.0	330.3
95°	300.2	298.5	297.7	300.2	290.8	298.5	296.8	300.2	298.5	298.5	295.1
97.5°	251.3	251.3	249.6	252.2	246.2	249.6	245.3	247.9	247.1	247.9	245.3
100°	231.6	231.6	229.9	229.9	227.3	228.2	226.5	226.5	225.6	224.7	224.7
102.5°	217.9	219.6	217.0	217.9	214.5	214.5	212.7	213.6	212.7	212.7	211.9
105°	205.0	205.9	204.2	204.2	201.6	200.7	199.0	199.9	200.7	199.0	199.0
107.5°	192.2	193.0	192.2	192.2	189.6	187.9	185.3	185.3	186.1	187.0	187.0
110°	197.3	194.7	192.2	190.4	193.9	188.7	187.0	186.1	187.0	189.6	190.4



REPORT NUMBER: P856088  
 CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	235.9	234.2	234.2	226.5	235.0	229.9	226.5	220.5	223.0	224.7	224.7
115°	273.6	274.5	264.2	260.8	255.6	254.8	257.3	250.5	249.6	250.5	248.8
117.5°	307.1	289.1	250.5	240.2	237.6	235.9	234.2	232.5	230.8	241.0	229.9
120°	328.5	297.7	269.4	263.3	277.9	257.3	243.6	241.0	246.2	264.2	261.6
122.5°	465.8	439.2	418.6	382.6	418.6	398.0	403.2	393.7	388.6	378.3	380.0
125°	544.7	543.9	534.4	527.6	536.1	528.4	519.8	516.4	511.3	513.8	509.5
127.5°	506.1	513.8	501.8	515.5	484.7	493.2	491.5	497.5	492.4	494.1	487.2
130°	400.6	406.6	395.5	388.6	374.9	390.3	391.2	400.6	390.3	376.6	374.9
132.5°	350.0	354.3	337.1	328.5	319.1	332.8	338.8	344.0	337.1	322.5	319.1
135°	297.7	299.4	287.4	289.1	283.1	283.1	282.2	284.8	288.2	285.7	283.9
137.5°	255.6	259.9	255.6	260.8	255.6	251.3	244.5	247.1	254.8	260.8	259.9
140°	221.3	225.6	226.5	231.6	221.3	223.0	218.7	220.5	224.7	230.8	233.3
142.5°	196.4	199.9	192.2	187.9	184.4	194.7	202.4	203.3	198.2	191.3	193.9
145°	191.3	187.9	191.3	187.9	191.3	189.6	190.4	189.6	189.6	189.6	189.6
147.5°	193.9	197.3	197.3	197.3	192.2	193.0	193.9	194.7	194.7	198.2	197.3
150°	161.3	165.6	164.7	169.0	161.3	163.0	163.8	165.6	166.4	167.3	168.1
152.5°	136.4	137.3	139.8	141.5	140.7	139.8	139.0	139.0	140.7	142.4	143.3
155°	133.0	133.0	135.5	138.1	135.5	135.5	134.7	134.7	135.5	138.1	138.1
157.5°	127.8	128.7	128.7	130.4	128.7	129.5	128.7	128.7	129.5	130.4	131.2
160°	125.2	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1	127.0	127.0
162.5°	125.2	125.2	125.2	124.4	124.4	125.2	125.2	125.2	125.2	124.4	125.2
165°	127.8	127.0	126.1	125.2	126.1	127.8	128.7	128.7	127.8	126.1	127.0
167.5°	133.0	133.0	132.1	131.2	132.1	133.0	133.8	133.8	133.0	132.1	132.1
170°	138.1	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3
172.5°	141.5	141.5	142.4	141.5	142.4	142.4	141.5	141.5	141.5	141.5	142.4
175°	146.7	146.7	146.7	146.7	147.5	147.5	147.5	147.5	147.5	147.5	147.5
177.5°	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1
180°	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0



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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-1

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5.

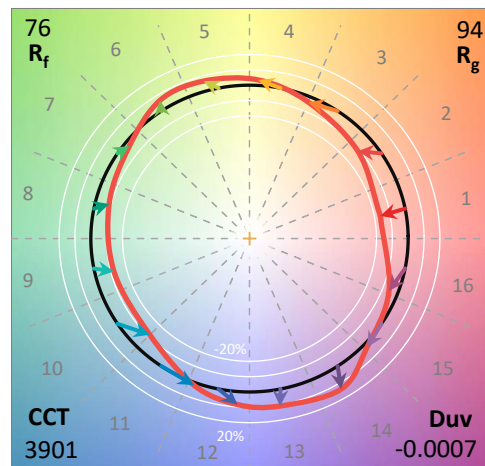
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-1  
 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-100-740-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 3901  
 CIE u': 0.2273  
 CIE v': 0.5026  
 Duv: -0.0007  
 CIE x: 0.3844  
 CIE y: 0.3776  
 CIE z: 0.2380  
 Peak Wavelength (nm): 451  
 Dominant Wavelength (nm): 579  
 Purity: 28.6799  
 R<sub>f</sub>: 76.2  
 R<sub>g</sub>: 94.4

CRI (Ra):	74.5		
R1:	71.8	R9:	-23.4
R2:	81.9	R10:	56.6
R3:	89.3	R11:	68.4
R4:	72.6	R12:	46.6
R5:	71.3	R13:	73.7
R6:	74.0	R14:	93.9
R7:	81.5	R15:	65.1
R8:	53.3		



**Test Conditions**

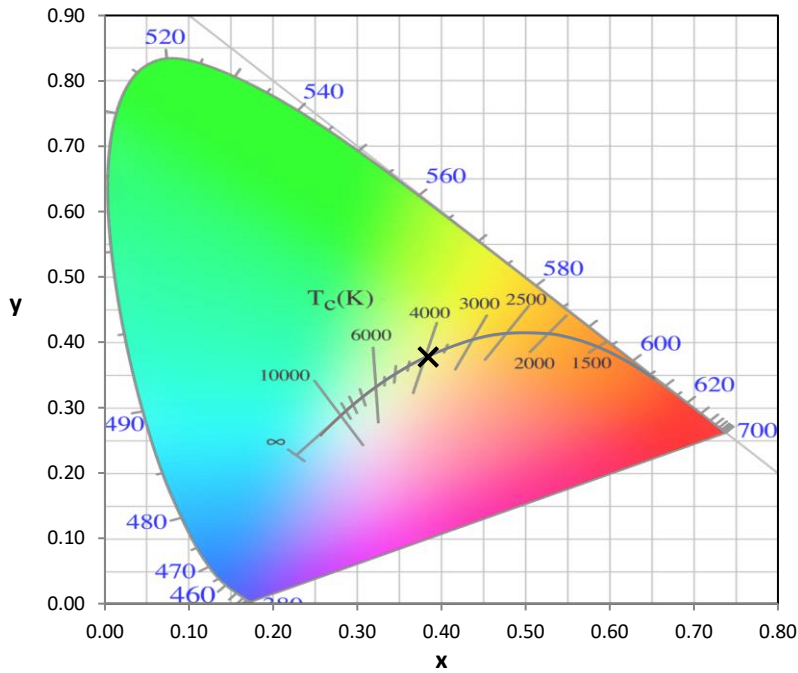
Stabilization Time: 0.818109M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.6

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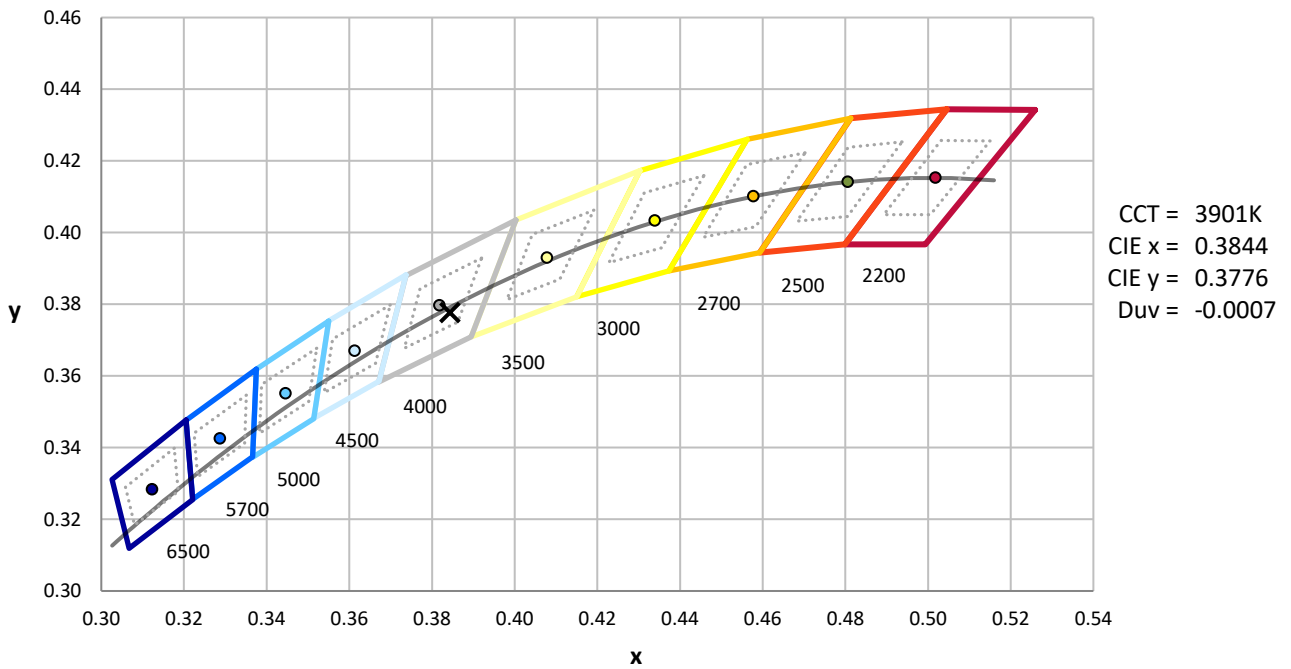
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 4000K 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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.53

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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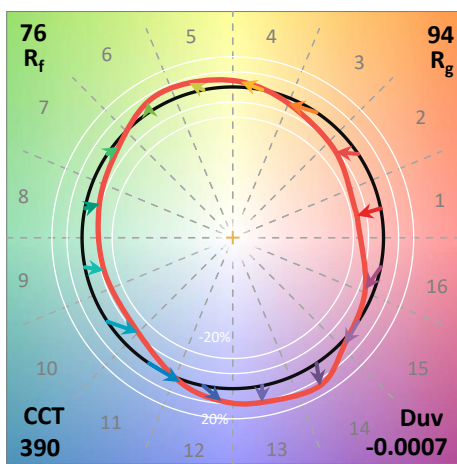
TM-30-18

**Summary**

$R_f = 76.2$   
 $R_g = 94.4$   
 CIE  $R_a = 74.5$   
 $R_g = -23.4$



**Color Vector Graphics**



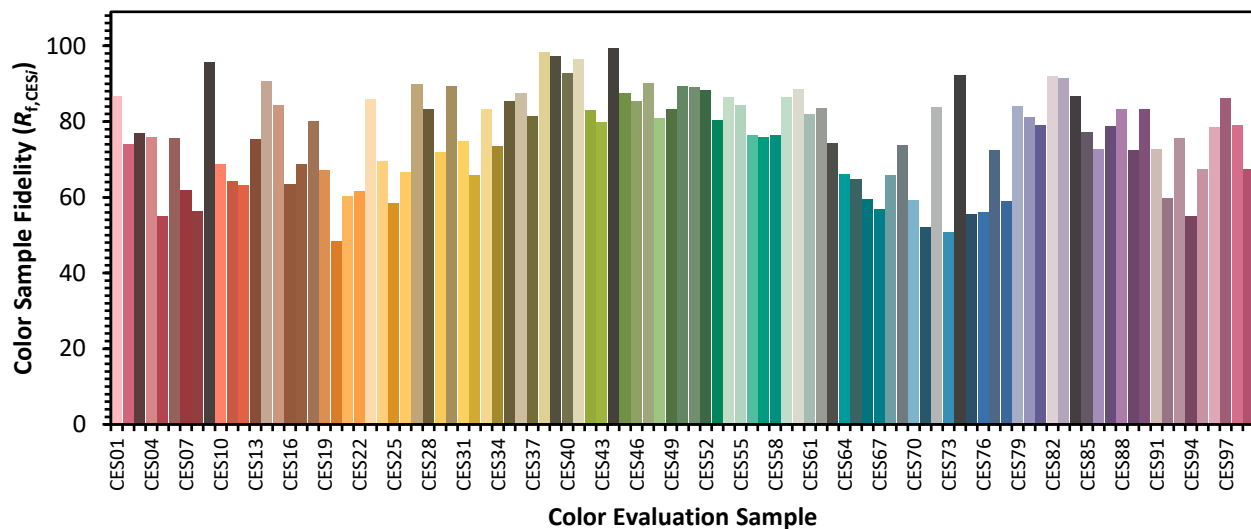


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

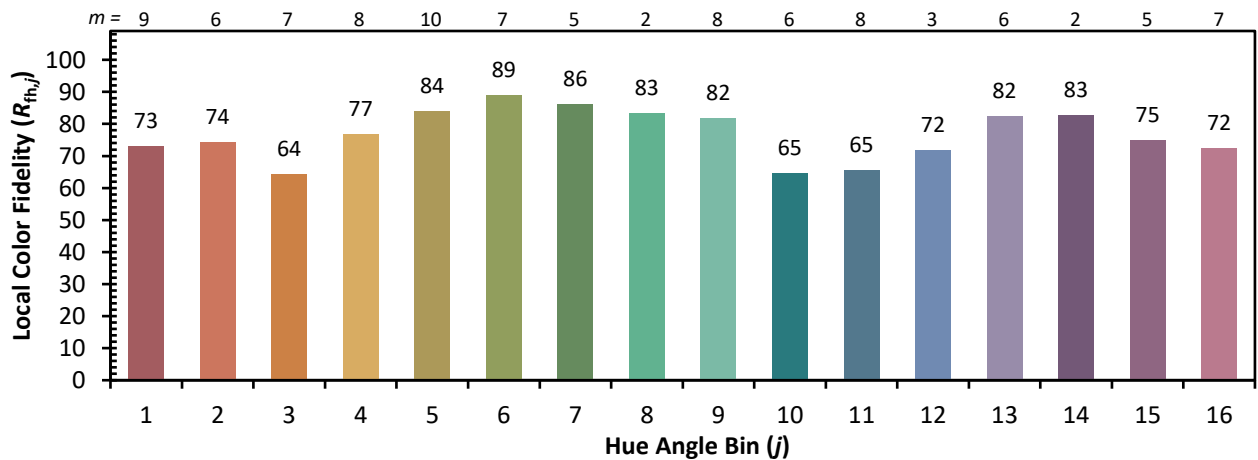
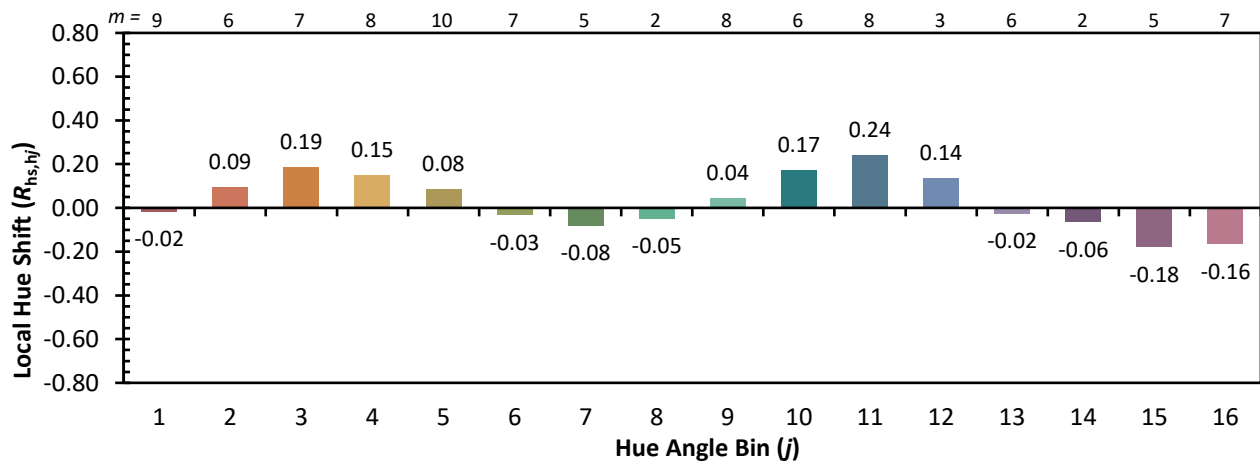
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CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 92
CES08 = 39	CES33 = 83	CES58 = 76	CES83 = 92
CES09 = 29	CES34 = 74	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 85	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 73
CES12 = 63	CES37 = 81	CES62 = 84	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 74	CES88 = 83
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 59	CES91 = 73
CES17 = 49	CES42 = 83	CES67 = 57	CES92 = 60
CES18 = 56	CES43 = 80	CES68 = 66	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 74	CES94 = 55
CES20 = 65	CES45 = 87	CES70 = 59	CES95 = 67
CES21 = 86	CES46 = 85	CES71 = 52	CES96 = 78
CES22 = 78	CES47 = 90	CES72 = 84	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 51	CES98 = 79
CES24 = 91	CES49 = 83	CES74 = 92	CES99 = 68
CES25 = 72	CES50 = 89	CES75 = 56	



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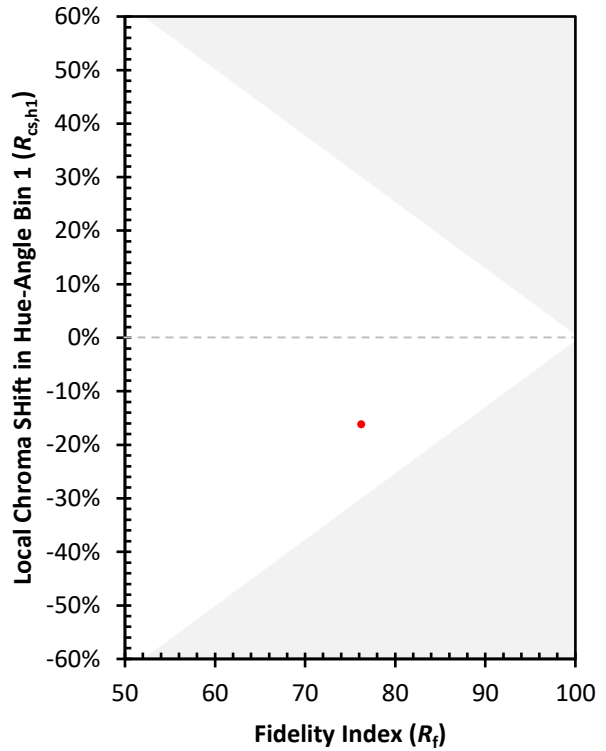
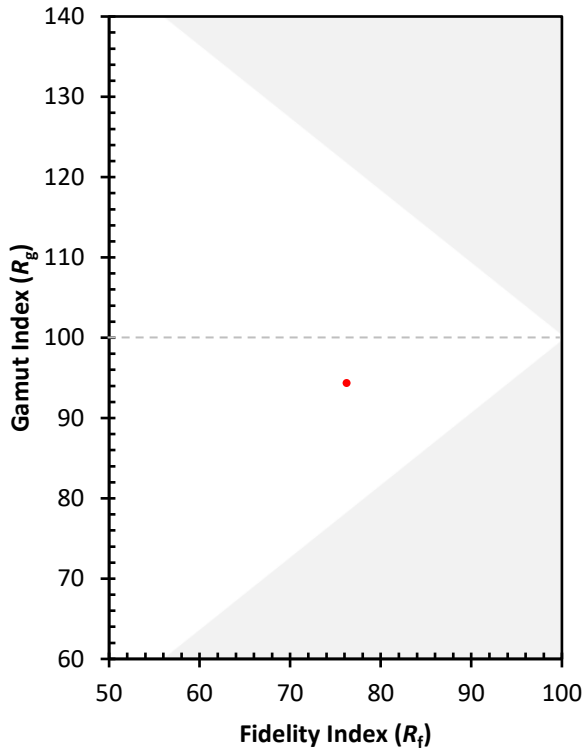
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)