

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: P856072

Luminaire Tested: **FFX-CLB-30-727-U-FR-T5**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856072  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-30-727-U-FR-T5  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS  
Light Source: (6) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

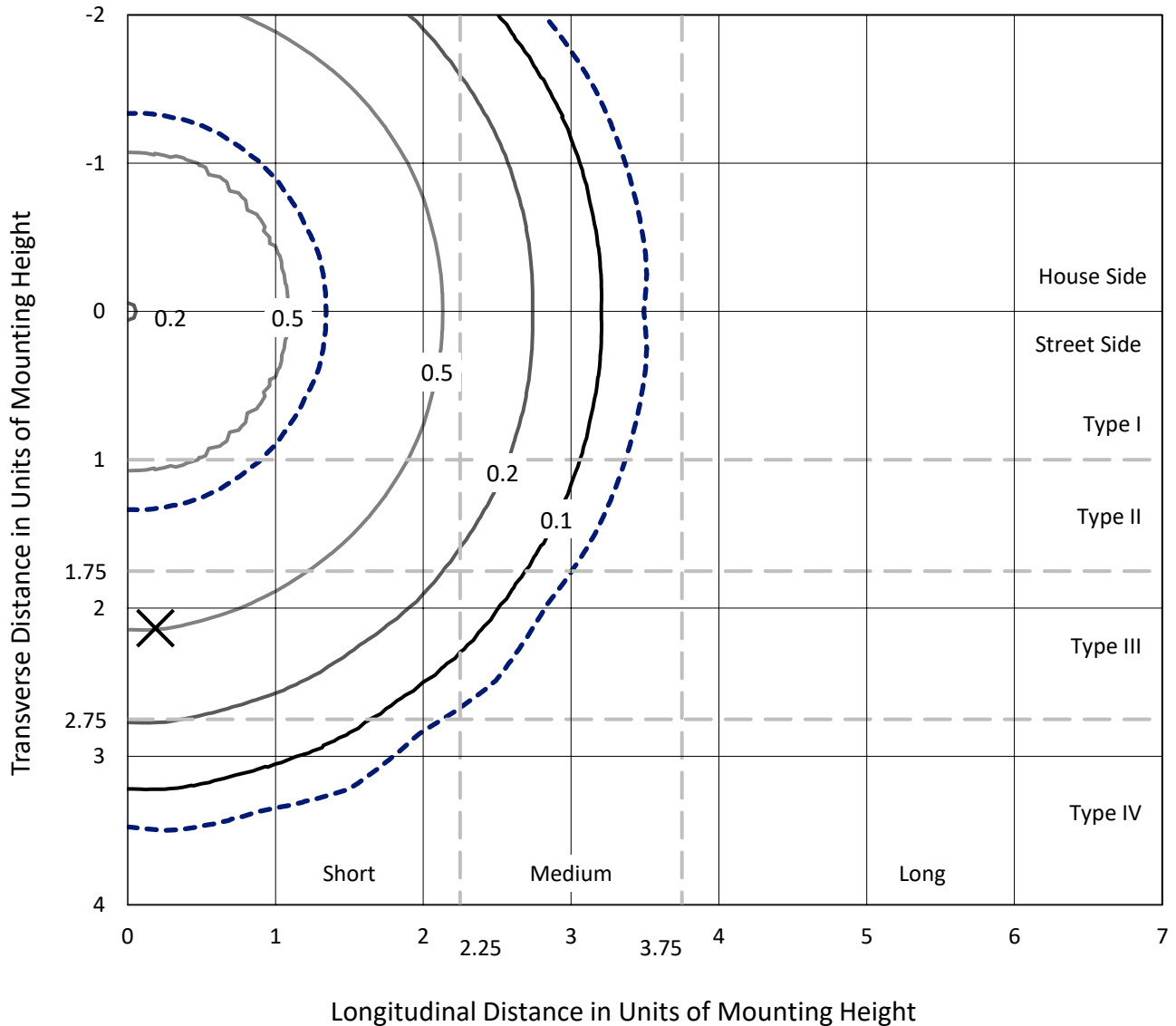
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4626.6 lumens  
Efficiency: N/A  
Efficacy: 151.7 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): 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

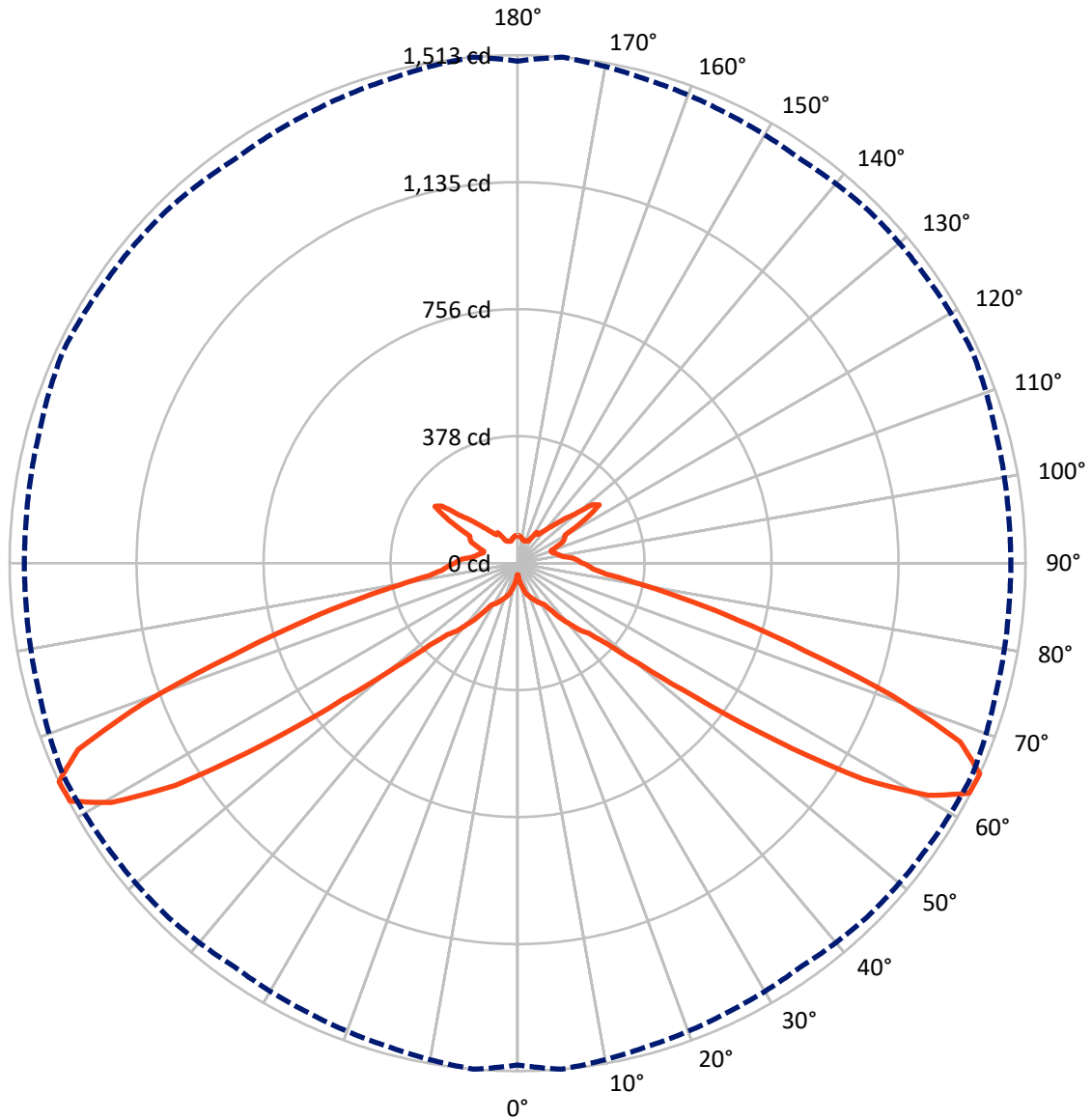
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.8 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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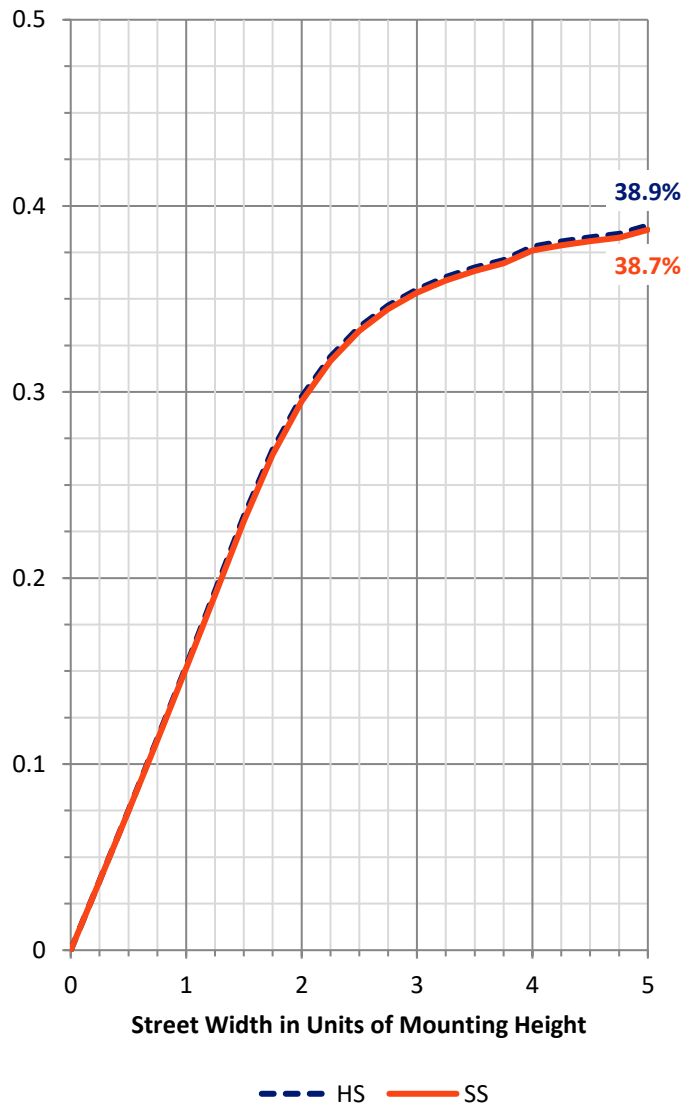
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1864.3	449.0	2313.3
	% Fixture	40.3	9.7	50.0
<b>Street Side</b>	Lumens	1864.3	449.0	2313.3
	% Fixture	40.3	9.7	50.0
<b>Total</b>	Lumens	3728.7	898.0	4626.6
	% Fixture	80.6	19.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	26.4	0.6
20°-30°	57.4	1.2
30°-40°	113.9	2.5
40°-50°	247.1	5.3
50°-60°	850.9	18.4
60°-70°	1397.5	30.2
70°-80°	750.1	16.2
80°-90°	280.1	6.1
90°-100°	176.9	3.8
100°-110°	118.5	2.6
110°-120°	130.2	2.8
120°-130°	215.5	4.7
130°-140°	126.9	2.7
140°-150°	67.1	1.5
150°-160°	35.3	0.8
160°-170°	20.0	0.4
170°-180°	7.5	0.2
0°-90°	3728.7	80.6
0°-180°	4626.6	100.0



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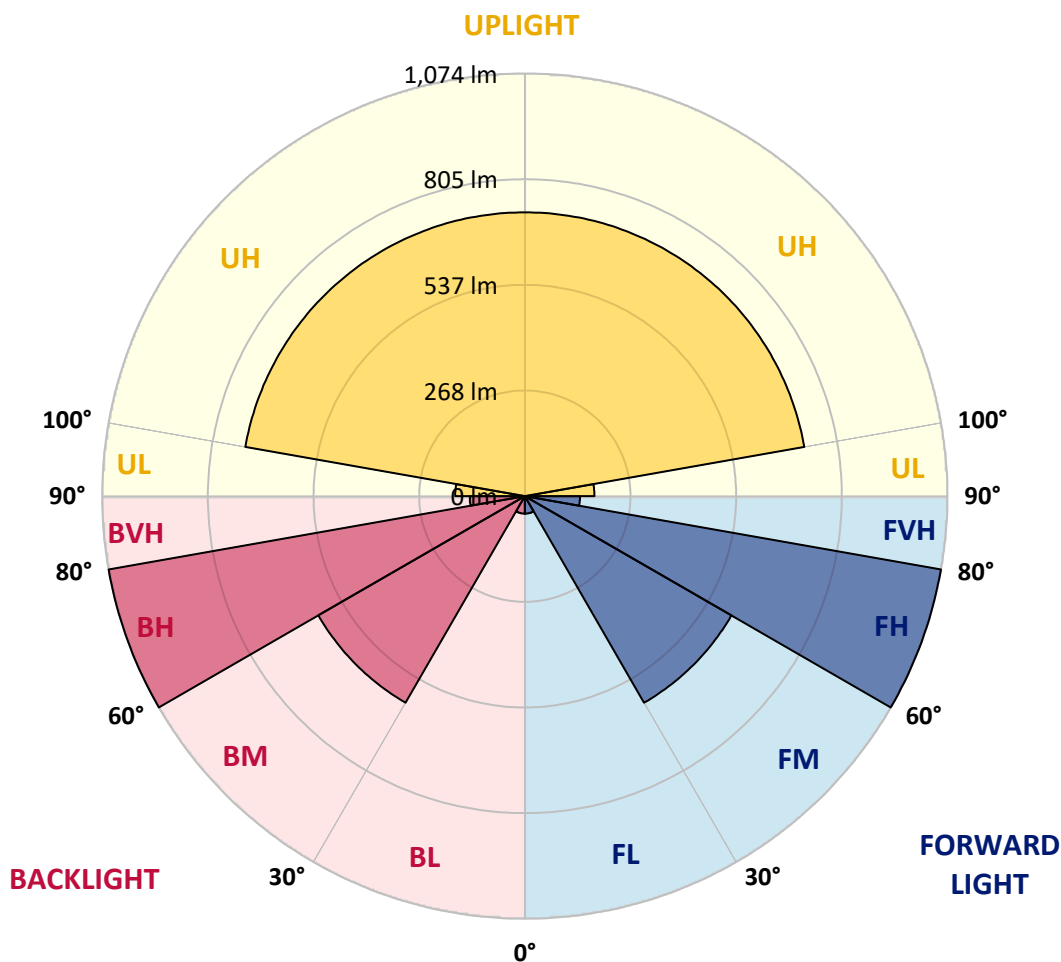
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	44.5	1.0			
FM (30°-60°)	606.0	13.1			
FH (60°-80°)	1073.8	23.2			G1/1800
FVH (80°-90°)	140.0	3.0			G2/225
BL (0°-30°)	44.5	1.0	B0/110		
BM (30°-60°)	606.0	13.1	B1/1000		
BH (60°-80°)	1073.8	23.2	B3/2500		G1/1800
BVH (80°-90°)	140.0	3.0			G2/225
UL (90°-100°)	176.9	3.8		U3/500	
UH (100°-180°)	721.0	15.6		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°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
2.5°	36.3	36.3	35.8	35.4	35.8	36.3	36.3	36.8	35.8	35.8	36.3
5°	48.6	48.6	48.6	48.1	47.2	47.2	46.7	48.1	48.6	49.0	49.0
7.5°	60.4	59.9	60.8	61.3	58.9	58.0	58.0	58.5	59.4	60.4	61.3
10°	68.4	67.9	68.4	70.3	69.8	68.4	68.4	68.4	69.8	72.2	72.6
12.5°	80.6	80.6	81.6	83.0	83.5	82.1	81.1	81.1	83.0	83.5	83.0
15°	93.8	93.8	93.4	92.9	93.4	92.9	92.9	93.4	94.8	94.3	94.3
17.5°	100.9	100.4	100.0	100.4	100.4	100.0	100.4	101.4	100.9	102.3	102.8
20°	108.5	108.5	107.5	107.5	107.5	108.0	108.5	108.0	108.5	108.9	109.4
22.5°	115.5	115.5	115.1	114.6	115.1	115.5	116.0	115.1	115.1	116.0	116.0
25°	123.6	123.6	123.6	122.1	122.6	123.1	122.6	122.1	122.6	123.1	123.6
27.5°	132.5	132.5	131.6	130.2	130.6	130.6	131.1	130.2	131.1	131.1	131.1
30°	140.1	139.1	138.6	137.7	137.7	138.6	139.6	138.2	138.6	138.6	139.1
32.5°	147.1	147.1	146.7	144.8	144.3	147.1	148.1	147.6	145.7	146.2	146.7
35°	173.5	173.5	170.2	166.9	169.8	169.3	173.1	173.1	173.1	174.0	175.9
37.5°	206.5	208.0	213.2	220.7	220.7	209.9	204.2	203.7	211.3	217.9	217.4
40°	235.8	237.2	235.8	236.7	235.8	236.3	236.7	235.8	231.5	230.1	227.3
42.5°	272.1	272.6	263.6	253.2	254.2	259.4	265.5	266.0	257.0	252.8	251.8
45°	297.6	298.5	295.2	293.8	293.8	295.7	295.2	295.2	291.9	291.4	290.5
47.5°	359.8	357.9	351.3	349.0	351.8	350.4	359.3	357.0	353.2	353.2	356.5
50°	477.2	475.3	475.8	473.5	481.0	470.2	481.0	478.2	472.5	475.3	477.7
52.5°	669.2	657.4	658.8	654.1	667.3	657.4	675.3	672.9	654.5	662.6	663.0
55°	945.5	930.4	929.5	897.9	922.4	925.7	948.3	954.0	918.2	918.6	921.0
57.5°	1219.5	1214.8	1229.9	1210.1	1227.5	1219.5	1219.0	1229.4	1208.6	1211.5	1219.0
60°	1401.0	1404.8	1421.8	1427.0	1433.1	1421.8	1398.7	1403.4	1402.0	1426.0	1427.9
62.5°	1498.2	1509.5	1497.2	1493.5	1488.3	1492.5	1489.7	1492.5	1484.0	1495.4	1495.8
65°	1494.9	1512.8	1490.6	1477.0	1468.5	1481.7	1485.5	1493.9	1476.0	1469.0	1469.0
67.5°	1400.1	1421.8	1386.9	1385.5	1364.7	1386.9	1380.8	1387.4	1373.2	1363.3	1353.9
70°	1164.8	1184.6	1142.6	1147.8	1112.0	1148.3	1138.8	1151.1	1139.8	1120.5	1109.1
72.5°	877.6	895.0	863.9	871.9	848.4	875.7	861.1	881.8	874.8	866.3	856.8
75°	664.0	677.7	679.5	706.4	678.1	691.3	664.9	677.2	689.0	698.9	688.5
77.5°	488.6	498.0	526.3	556.0	528.2	537.6	511.2	523.0	533.8	550.8	543.3
80°	345.2	356.0	382.0	404.1	383.9	392.3	375.4	382.0	390.5	402.7	394.7
82.5°	268.8	265.0	264.1	258.4	252.3	273.5	277.8	281.5	273.5	270.2	266.4
85°	225.4	226.4	232.0	239.1	239.1	239.6	235.3	237.2	240.5	246.6	247.1
87.5°	207.0	209.9	225.9	231.5	229.2	230.1	226.4	227.3	229.7	233.0	232.0
90°	182.5	189.6	204.7	210.3	206.5	208.4	206.5	208.0	206.1	207.0	205.1
92.5°	178.3	177.8	182.5	182.0	179.7	185.3	185.3	186.3	183.9	182.5	181.6
95°	165.1	164.1	163.6	165.1	159.9	164.1	163.2	165.1	164.1	164.1	162.2
97.5°	138.2	138.2	137.2	138.6	135.3	137.2	134.9	136.3	135.8	136.3	134.9
100°	127.3	127.3	126.4	126.4	125.0	125.4	124.5	124.5	124.0	123.6	123.6
102.5°	119.8	120.7	119.3	119.8	117.9	117.9	117.0	117.4	117.0	117.0	116.5
105°	112.7	113.2	112.2	112.2	110.8	110.3	109.4	109.9	110.3	109.4	109.4
107.5°	105.6	106.1	105.6	105.6	104.2	103.3	101.9	101.9	102.3	102.8	102.8
110°	108.5	107.0	105.6	104.7	106.6	103.7	102.8	102.3	102.8	104.2	104.7



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 CATALOG NUMBER: FFX-CLB-30-727-U-FR-T5

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	129.7	128.7	128.7	124.5	129.2	126.4	124.5	121.2	122.6	123.6	123.6
115°	150.4	150.9	145.2	143.4	140.5	140.1	141.5	137.7	137.2	137.7	136.8
117.5°	168.8	158.9	137.7	132.0	130.6	129.7	128.7	127.8	126.9	132.5	126.4
120°	180.6	163.6	148.1	144.8	152.8	141.5	133.9	132.5	135.3	145.2	143.8
122.5°	256.1	241.4	230.1	210.3	230.1	218.8	221.6	216.5	213.6	208.0	208.9
125°	299.4	299.0	293.8	290.0	294.7	290.5	285.8	283.9	281.1	282.5	280.1
127.5°	278.2	282.5	275.9	283.4	266.4	271.2	270.2	273.5	270.7	271.6	267.9
130°	220.2	223.5	217.4	213.6	206.1	214.6	215.0	220.2	214.6	207.0	206.1
132.5°	192.4	194.8	185.3	180.6	175.4	183.0	186.3	189.1	185.3	177.3	175.4
135°	163.6	164.6	158.0	158.9	155.6	155.6	155.1	156.6	158.4	157.0	156.1
137.5°	140.5	142.9	140.5	143.4	140.5	138.2	134.4	135.8	140.1	143.4	142.9
140°	121.7	124.0	124.5	127.3	121.7	122.6	120.3	121.2	123.6	126.9	128.3
142.5°	108.0	109.9	105.6	103.3	101.4	107.0	111.3	111.8	108.9	105.2	106.6
145°	105.2	103.3	105.2	103.3	105.2	104.2	104.7	104.2	104.2	104.2	104.2
147.5°	106.6	108.5	108.5	108.5	105.6	106.1	106.6	107.0	107.0	108.9	108.5
150°	88.7	91.0	90.5	92.9	88.7	89.6	90.1	91.0	91.5	92.0	92.4
152.5°	75.0	75.5	76.9	77.8	77.3	76.9	76.4	76.4	77.3	78.3	78.8
155°	73.1	73.1	74.5	75.9	74.5	74.5	74.0	74.0	74.5	75.9	75.9
157.5°	70.3	70.7	70.7	71.7	70.7	71.2	70.7	70.7	71.2	71.7	72.2
160°	68.8	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.8	69.8
162.5°	68.8	68.8	68.8	68.4	68.4	68.8	68.8	68.8	68.8	68.4	68.8
165°	70.3	69.8	69.3	68.8	69.3	70.3	70.7	70.7	70.3	69.3	69.8
167.5°	73.1	73.1	72.6	72.2	72.6	73.1	73.6	73.6	73.1	72.6	72.6
170°	75.9	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
172.5°	77.8	77.8	78.3	77.8	78.3	78.3	77.8	77.8	77.8	77.8	78.3
175°	80.6	80.6	80.6	80.6	81.1	81.1	81.1	81.1	81.1	81.1	81.1
177.5°	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
180°	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0



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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-3

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5.

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-3  
 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-100-727-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 2707  
 CIE u': 0.2624  
 CIE v': 0.5261  
 Duv: -0.0007  
 CIE x: 0.4580  
 CIE y: 0.4082  
 CIE z: 0.1338  
 Peak Wavelength (nm): 599  
 Dominant Wavelength (nm): 584  
 Purity: 59.99901  
 Rf: 75.5  
 Rg: 92.5

CRI (Ra):	71.3		
R1:	67.8	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



**Test Conditions**

Stabilization Time: 0.813602M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

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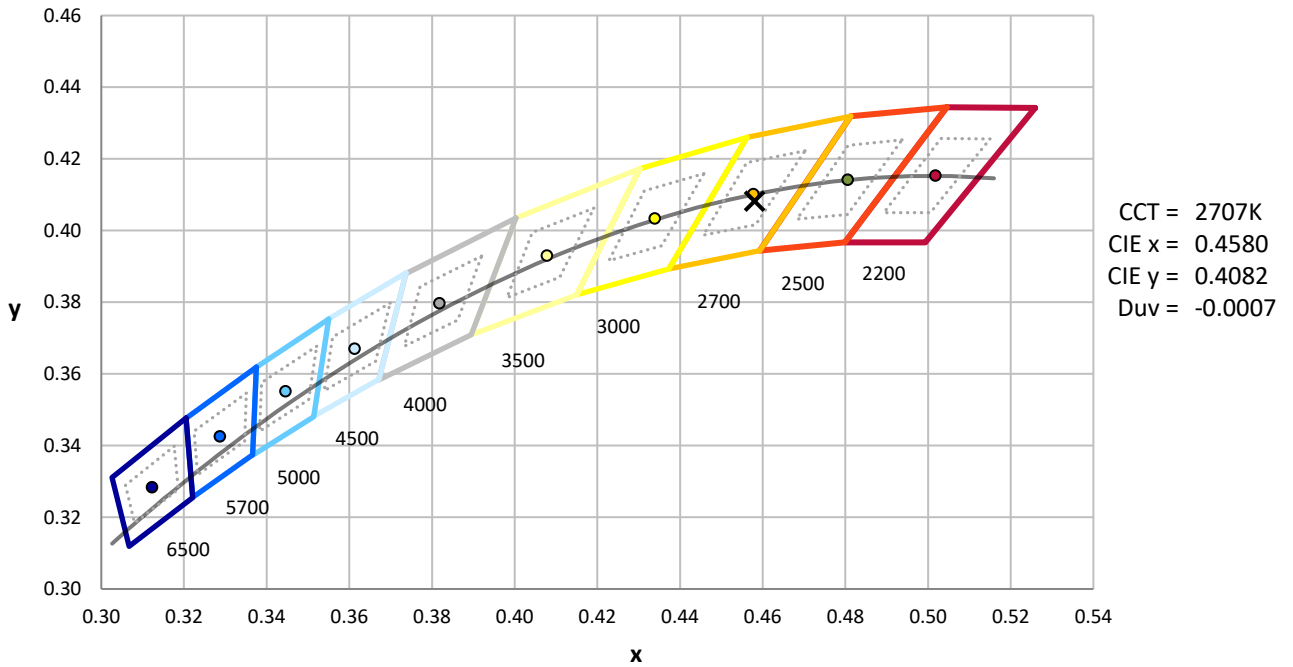
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 2700K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

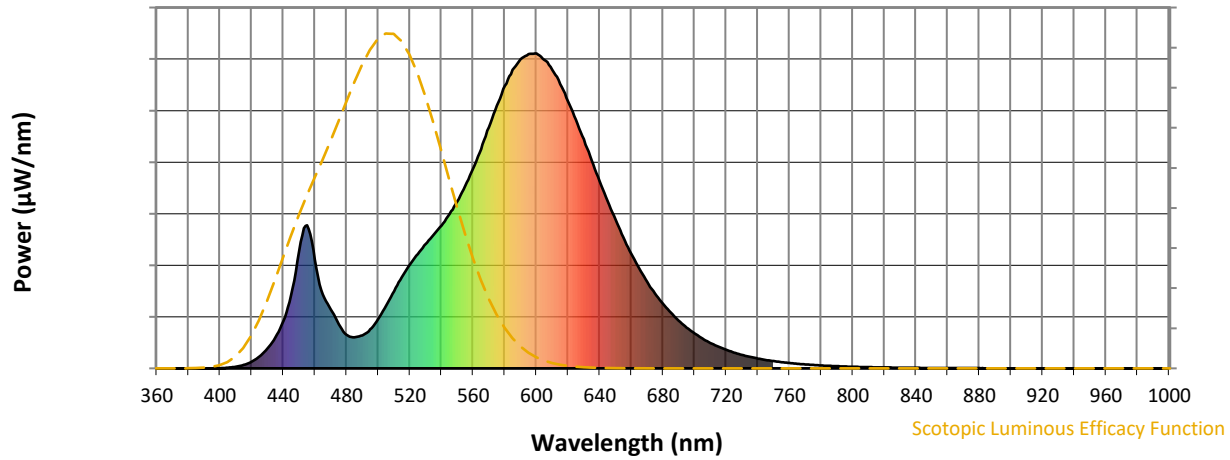


**Photopic Lumens: NR**

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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**Scotopic Flux vs. Wavelength**



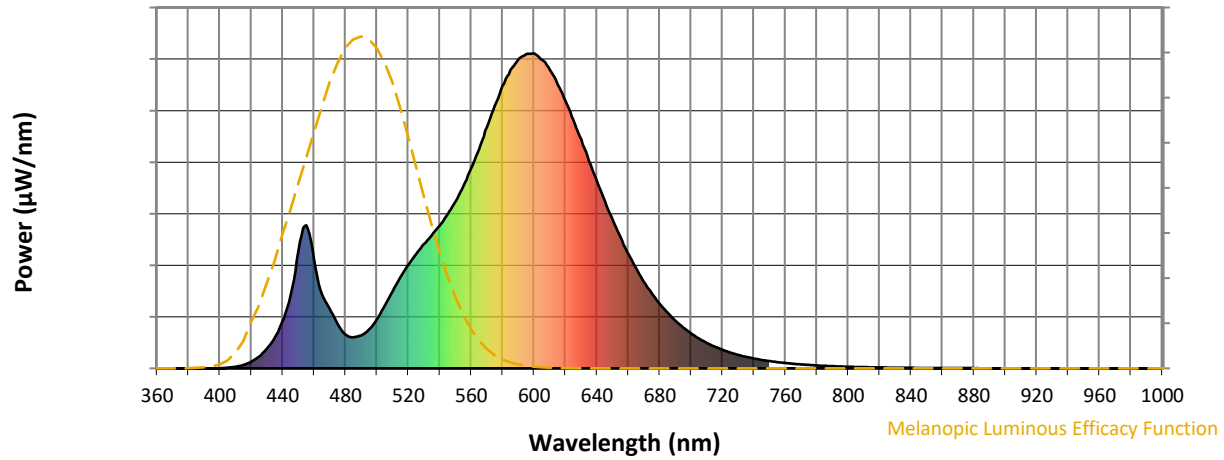
**Scotopic Lumens: NR**

**S/P: 1.12**

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

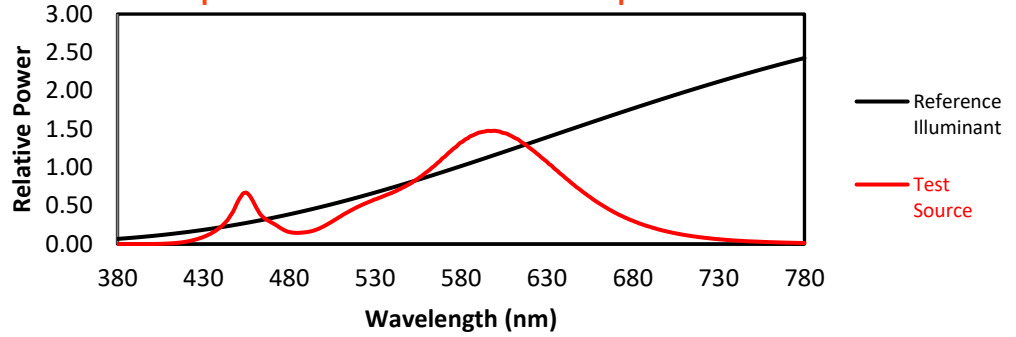
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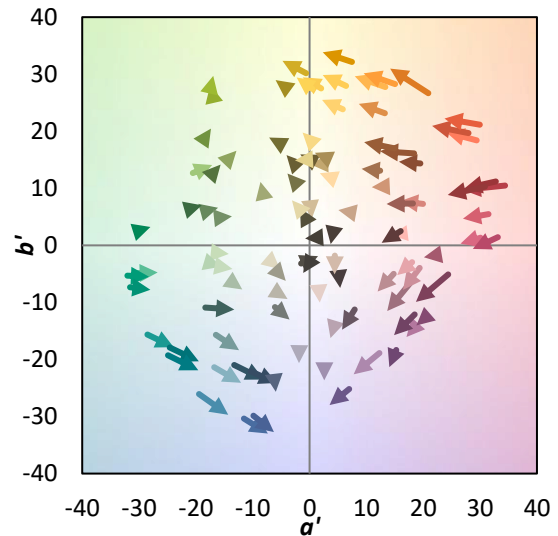
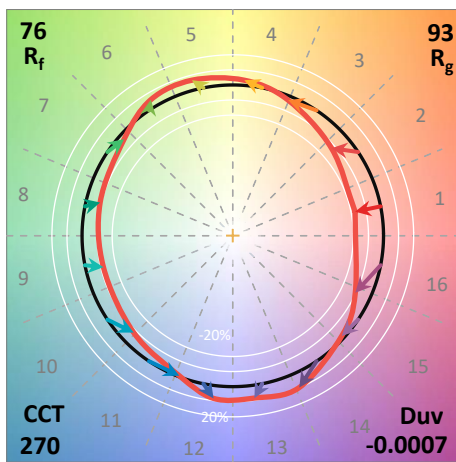
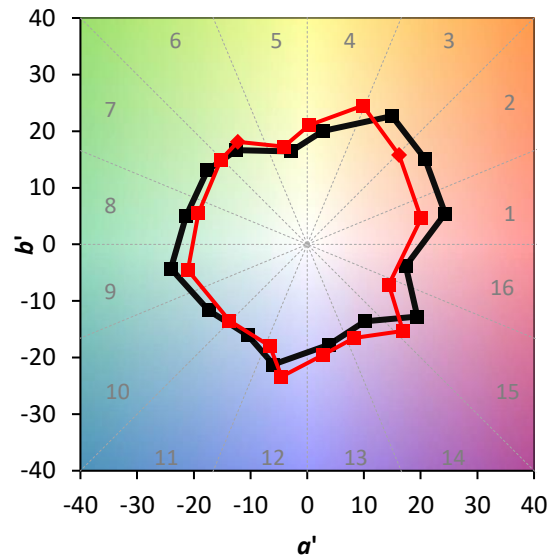
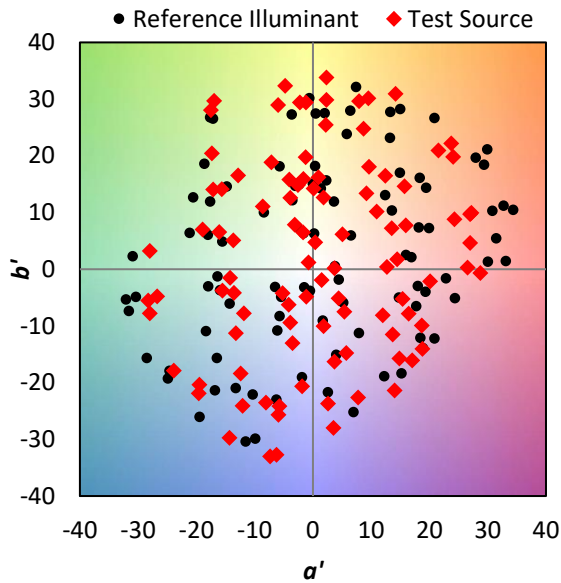
**Summary**

$R_f = 75.5$   
 $R_g = 92.5$   
 CIE  $R_a = 71.3$   
 $R_9 = -34.9$

**Spectral Power Distribution Comparison**



**Color Vector Graphics**





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

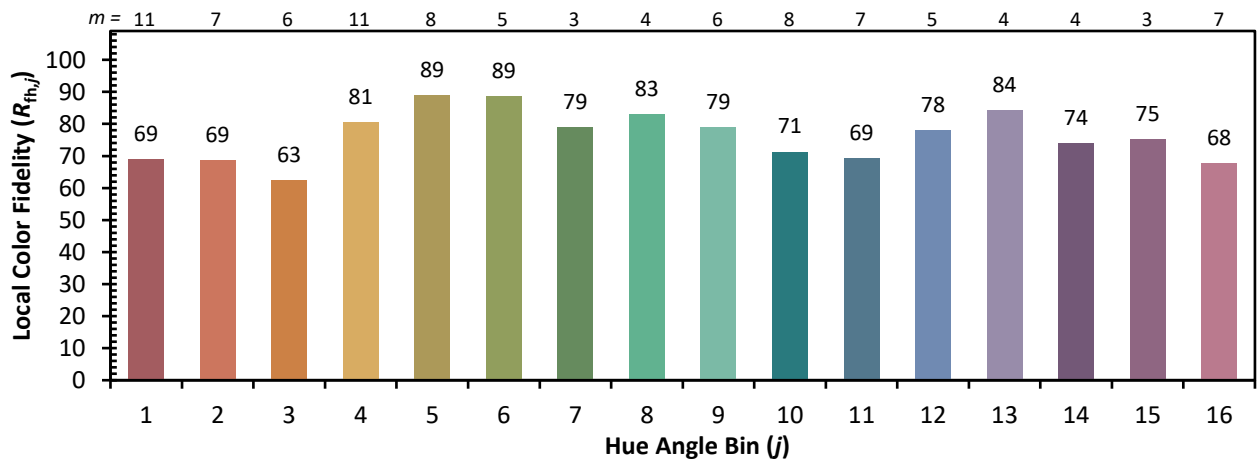
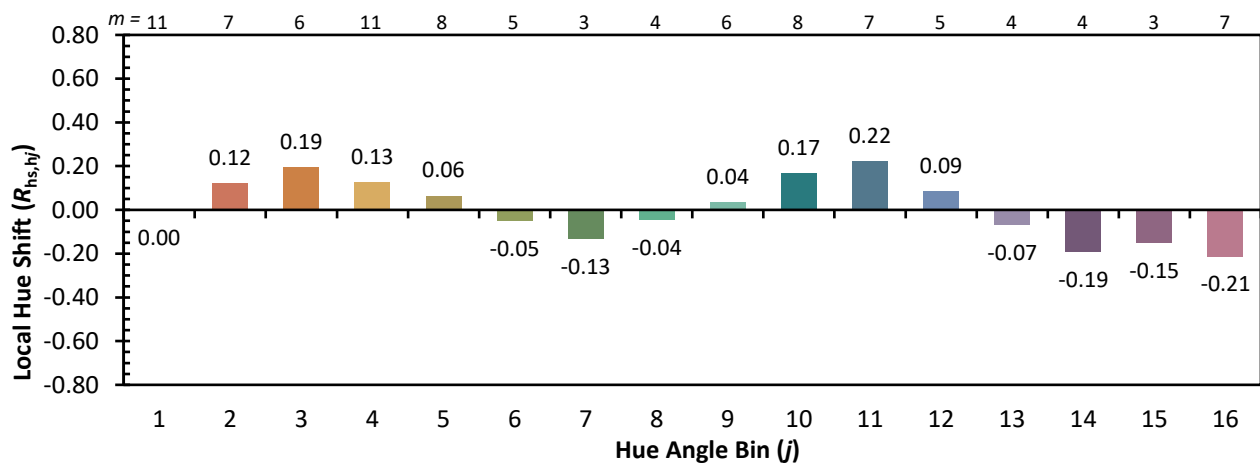
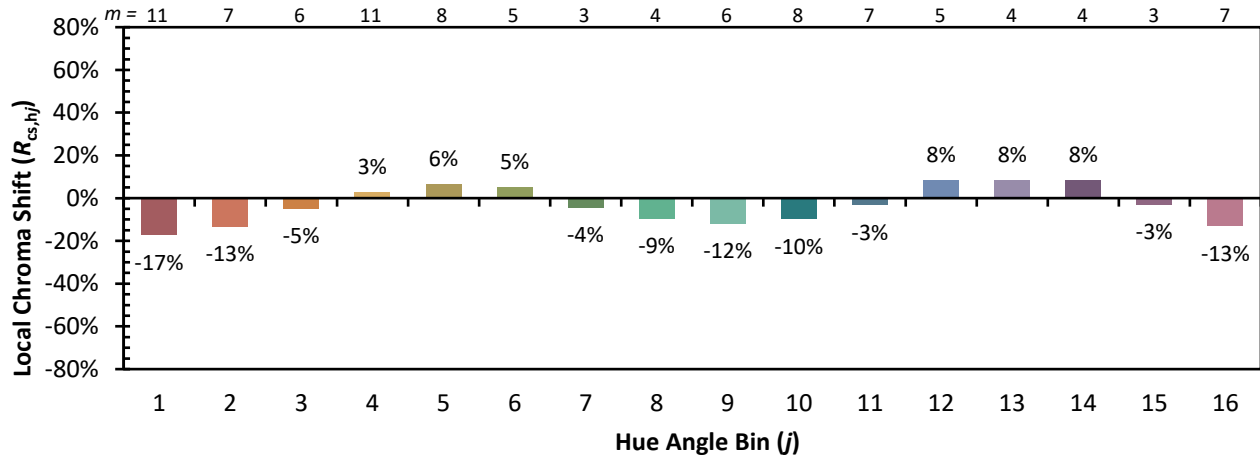
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CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
CES11 = 60	CES36 = 90	CES61 = 80	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 87	CES87 = 77
CES13 = 43	CES38 = 99	CES63 = 78	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 64	CES89 = 65
CES15 = 72	CES40 = 94	CES65 = 66	CES90 = 81
CES16 = 48	CES41 = 96	CES66 = 60	CES91 = 78
CES17 = 51	CES42 = 90	CES67 = 58	CES92 = 54
CES18 = 57	CES43 = 80	CES68 = 66	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 82	CES71 = 60	CES96 = 76
CES22 = 80	CES47 = 90	CES72 = 86	CES97 = 80
CES23 = 92	CES48 = 75	CES73 = 57	CES98 = 75
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CES25 = 73	CES50 = 86	CES75 = 66	



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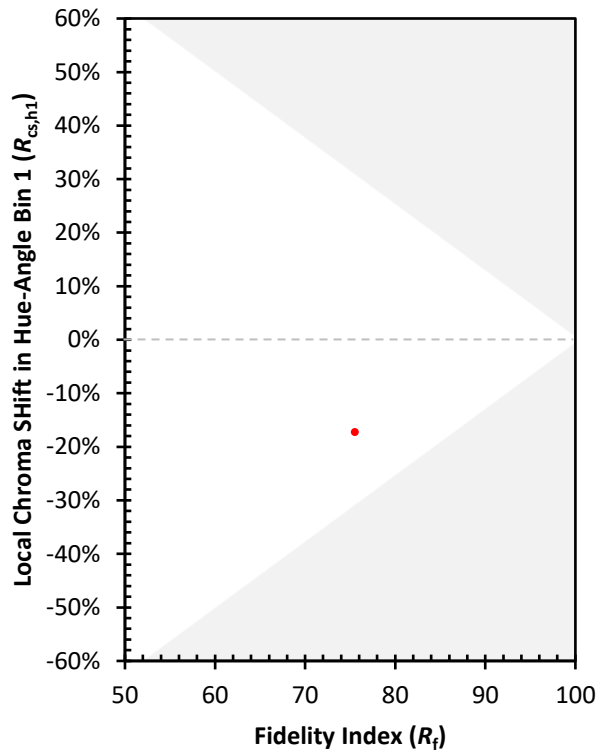
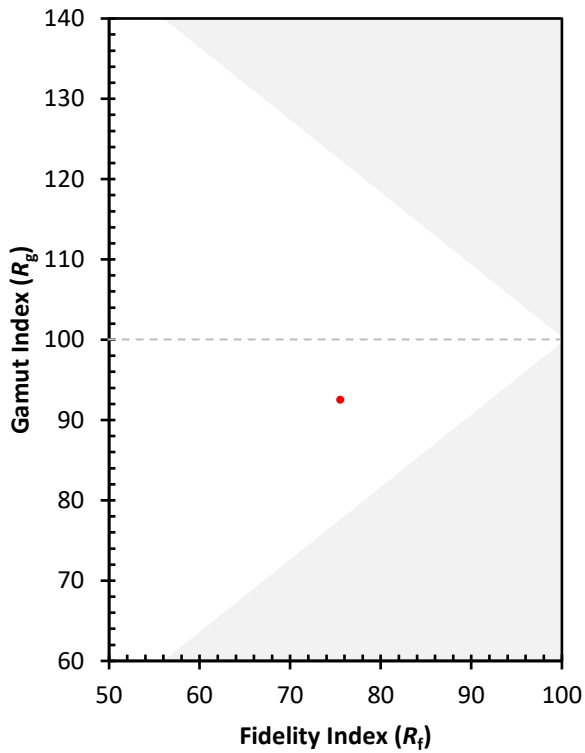
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)