

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: P856155

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856155
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-100-727-U-FR-T5-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

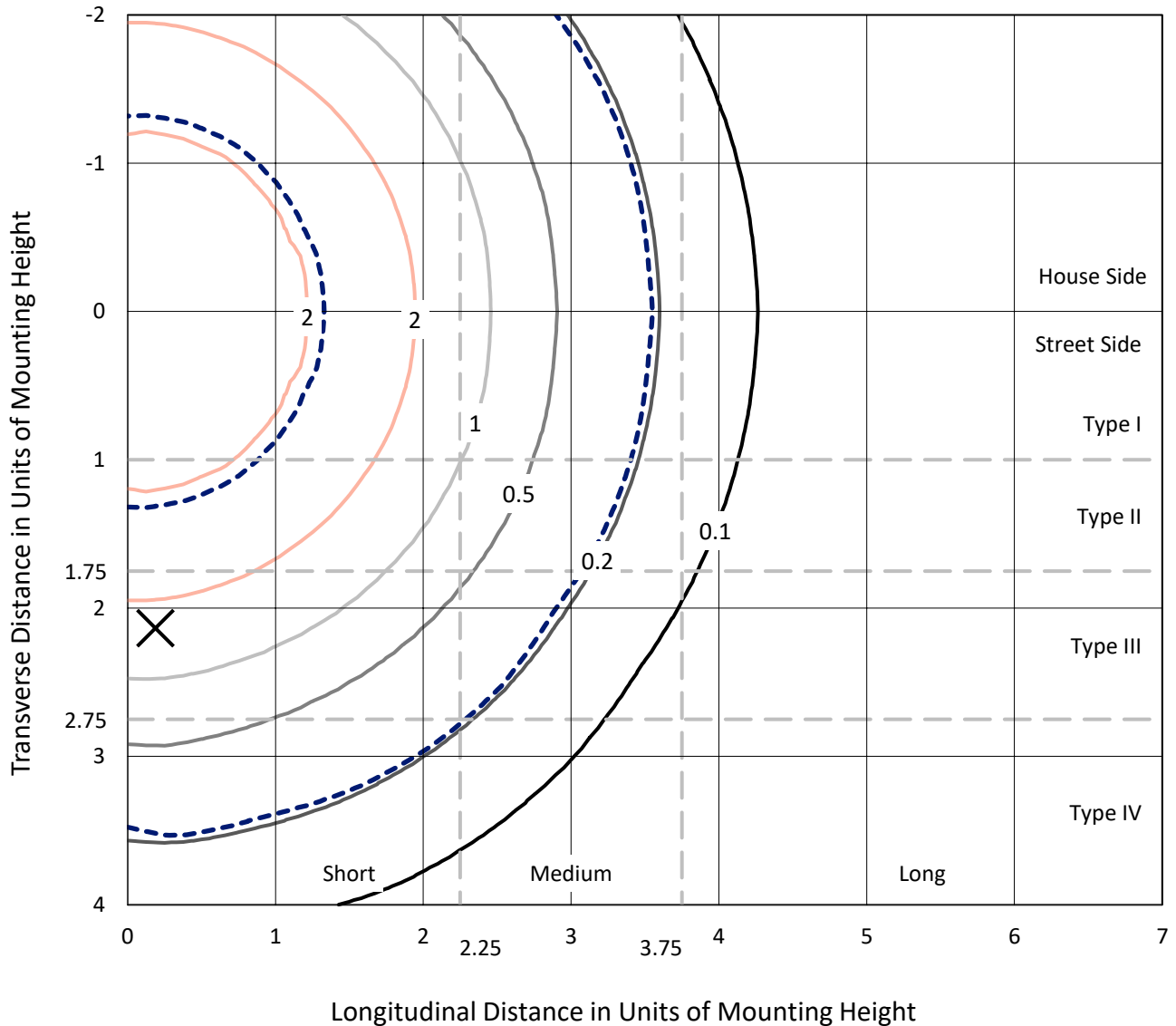
Lumens per Lamp: N/A
Luminaire Lumens: 13921.2 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B4 - U5 - G3

Input Watts (W): 96.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2%%
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

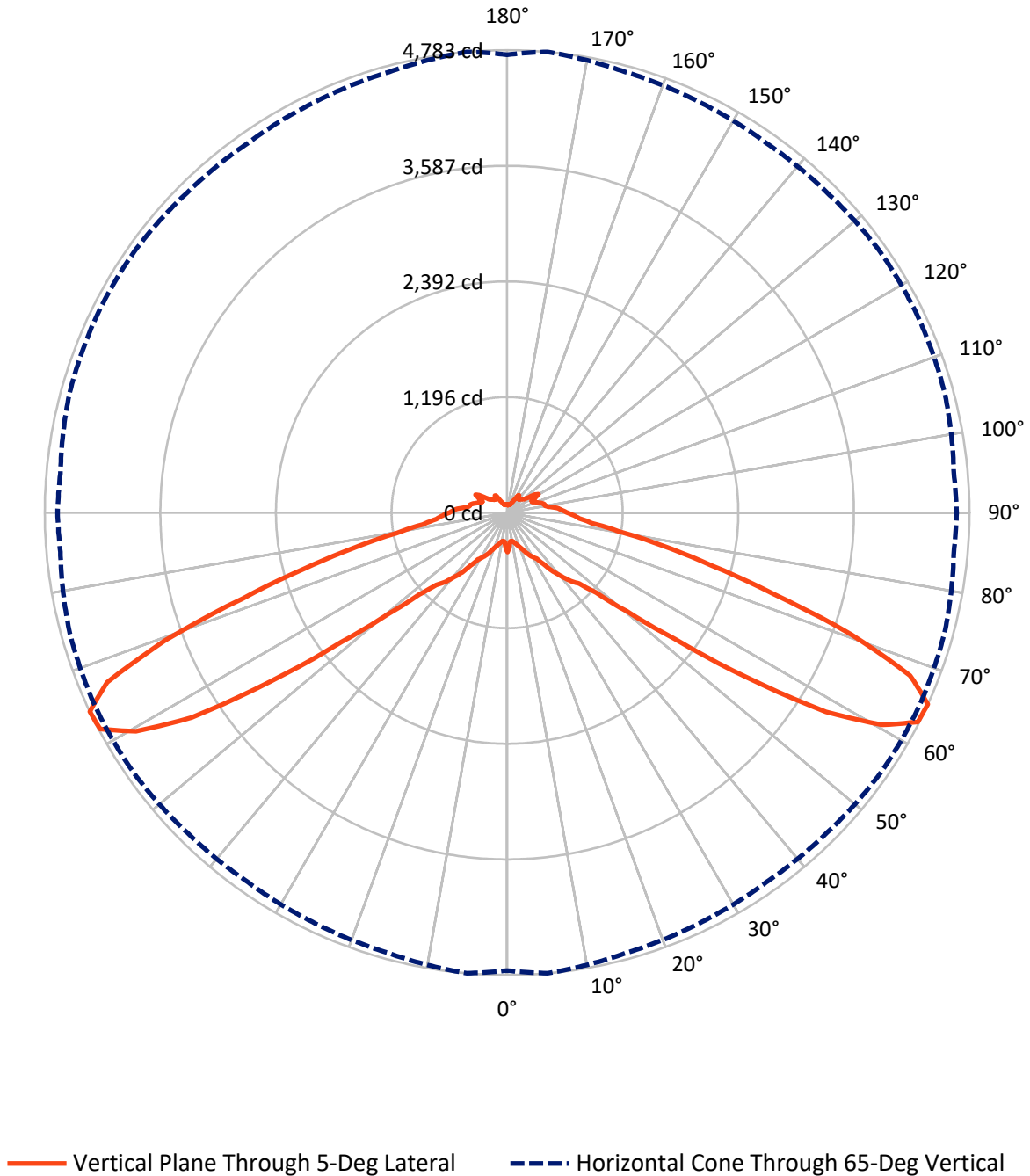
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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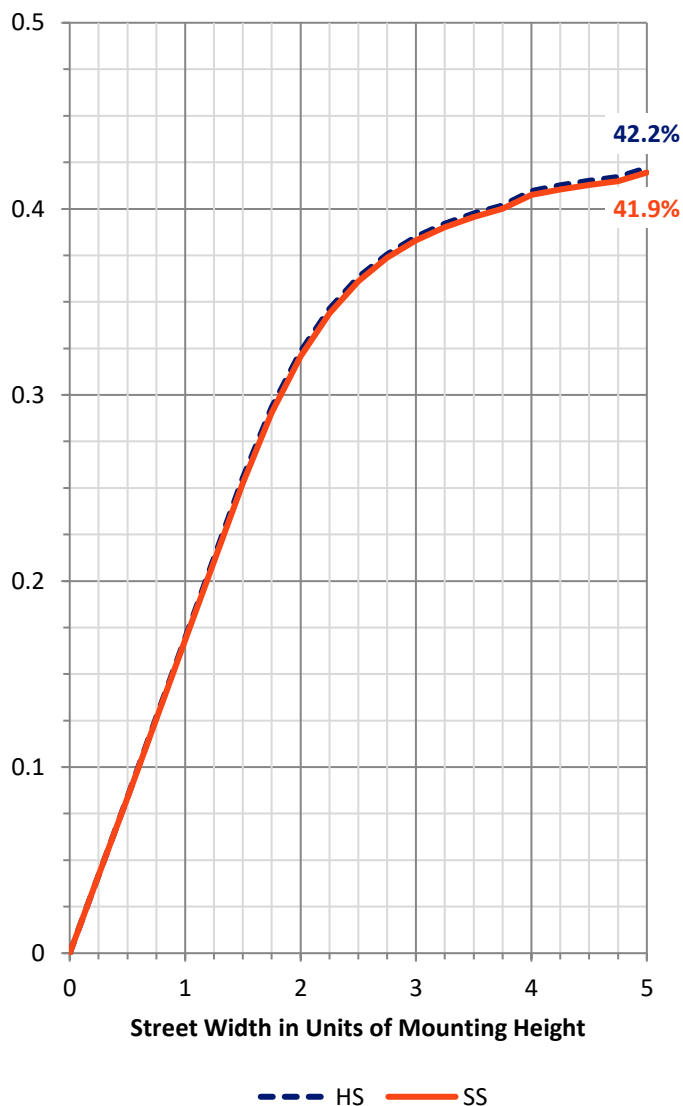
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6081.0	879.6	6960.6
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	6081.0	879.6	6960.6
	% Fixture	43.7	6.3	50.0
Total	Lumens	12162.0	1759.2	13921.2
	% 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°	865.3	6.2
50°-60°	2751.1	19.8
60°-70°	4436.6	31.9
70°-80°	2419.4	17.4
80°-90°	921.2	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°	147.8	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°	12162.0	87.4
0°-180°	13921.2	100.0



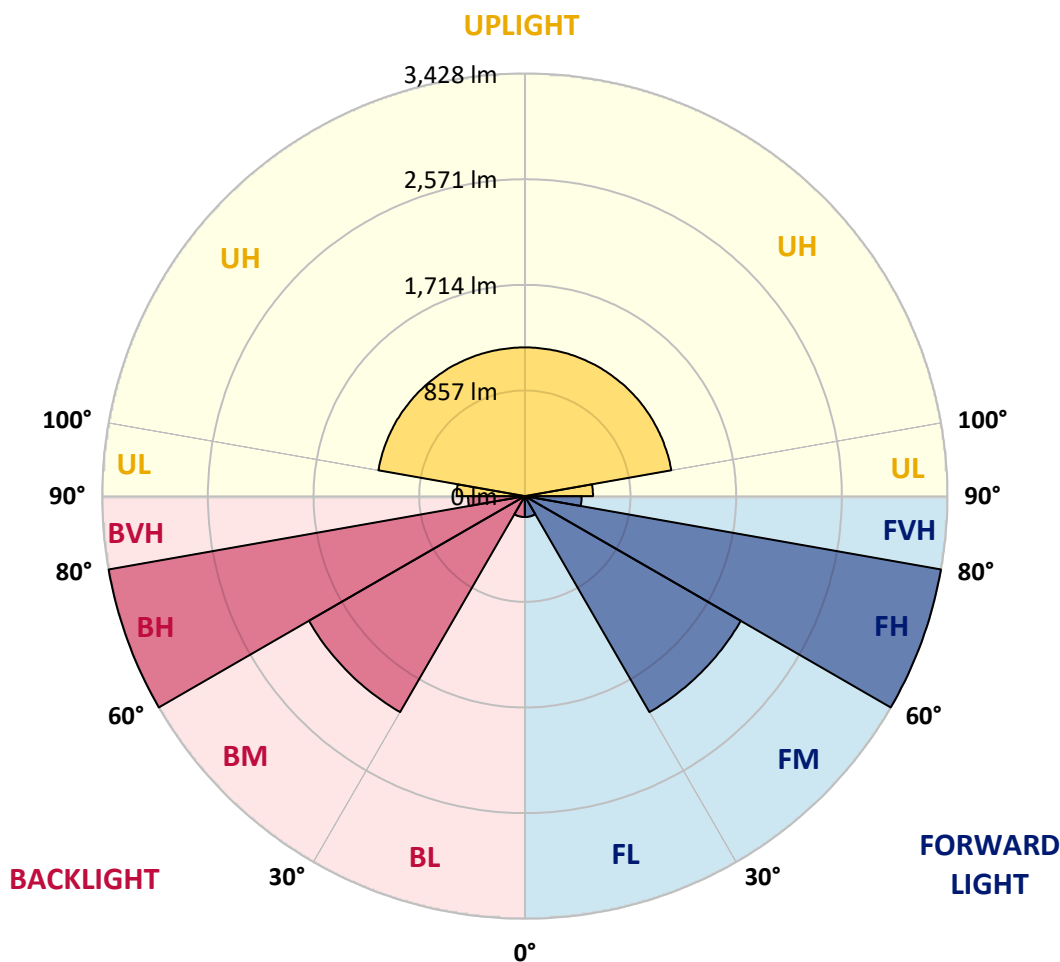
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.6	1.2			
FM	(30°-60°)	2022.8	14.5			
FH	(60°-80°)	3428.0	24.6			G2/5000
FVH	(80°-90°)	460.6	3.3			G3/500
BL	(0°-30°)	169.6	1.2	B1/500		
BM	(30°-60°)	2022.8	14.5	B2/2500		
BH	(60°-80°)	3428.0	24.6	B4/5000		G2/5000
BVH	(80°-90°)	460.6	3.3			G3/500
UL	(90°-100°)	552.8	4.0		U4/1000	
UH	(100°-180°)	1206.4	8.7		U5	

BUG Rating: B4-U5-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5
2.5°	364.9	370.7	354.7	341.7	335.8	337.3	350.4	363.5	350.4	354.7	354.7
5°	302.4	303.9	303.9	300.9	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	298.0	283.5	285.0	299.5	316.9	321.3
10°	300.9	300.9	298.0	300.9	311.1	309.7	293.7	286.4	296.6	314.0	319.8
12.5°	314.0	314.0	322.8	335.8	337.3	324.2	308.2	306.8	318.4	330.0	330.0
15°	332.9	334.4	338.7	337.3	341.7	337.3	332.9	335.8	343.1	343.1	343.1
17.5°	357.6	357.6	357.6	357.6	357.6	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	414.3	412.9	411.4	412.9	412.9
25°	460.9	460.9	458.0	453.6	453.6	452.1	447.8	446.3	444.9	447.8	446.3
27.5°	501.6	501.6	497.2	491.4	491.4	491.4	488.5	485.6	482.7	484.1	484.1
30°	539.4	536.5	535.0	530.7	529.2	530.7	527.7	527.7	521.9	520.5	523.4
32.5°	574.3	571.4	574.3	569.9	565.5	569.9	568.5	568.5	559.7	556.8	559.7
35°	670.2	663.0	668.8	658.6	652.8	654.2	657.1	663.0	654.2	649.9	651.3
37.5°	773.4	772.0	790.9	806.9	804.0	779.3	763.3	766.2	777.8	793.8	793.8
40°	869.4	866.5	870.9	865.0	865.0	862.1	860.7	867.9	844.7	838.9	834.5
42.5°	969.7	968.3	943.5	908.7	901.4	930.5	943.5	953.7	920.3	908.7	899.9
45°	1068.6	1048.2	1043.9	1032.2	1020.6	1039.5	1038.0	1045.3	1029.3	1027.9	1020.6
47.5°	1276.5	1238.7	1225.6	1227.0	1202.3	1222.7	1231.4	1254.7	1221.2	1222.7	1221.2
50°	1651.6	1603.6	1625.4	1610.9	1584.7	1609.4	1608.0	1650.1	1594.9	1615.2	1606.5
52.5°	2237.5	2172.0	2185.1	2176.4	2150.2	2201.1	2212.8	2275.3	2169.1	2195.3	2188.0
55°	3085.1	3013.8	3042.9	2938.2	2910.6	3010.9	3048.7	3121.4	2980.4	2994.9	2987.7
57.5°	3893.4	3889.0	3938.5	3864.3	3839.6	3910.8	3876.0	3939.9	3864.3	3918.1	3900.7
60°	4444.4	4456.0	4505.5	4527.3	4483.7	4521.5	4437.1	4485.1	4461.9	4540.4	4533.1
62.5°	4730.8	4768.6	4739.5	4741.0	4693.0	4722.1	4706.1	4733.7	4727.9	4735.2	4727.9
65°	4736.6	4783.2	4719.2	4690.1	4669.8	4681.4	4709.0	4709.0	4691.6	4639.2	4650.9
67.5°	4427.0	4496.8	4425.5	4384.8	4396.4	4392.1	4411.0	4386.3	4376.1	4299.0	4300.5
70°	3665.1	3777.1	3672.4	3634.6	3665.1	3684.0	3682.6	3662.2	3646.2	3550.3	3577.9
72.5°	2782.7	2881.5	2788.5	2773.9	2803.0	2832.1	2807.4	2832.1	2805.9	2762.3	2775.4
75°	2100.8	2185.1	2185.1	2240.4	2249.1	2233.1	2164.8	2192.4	2209.8	2211.3	2224.4
77.5°	1545.4	1634.1	1680.6	1770.8	1766.4	1738.8	1655.9	1687.9	1721.4	1744.6	1760.6
80°	1099.1	1166.0	1234.3	1298.3	1307.0	1283.7	1232.9	1251.8	1272.1	1288.1	1296.8
82.5°	852.0	882.5	869.4	862.1	873.8	907.2	918.8	930.5	901.4	882.5	889.8
85°	742.9	745.8	769.1	785.1	789.4	789.4	777.8	786.5	793.8	812.7	812.7
87.5°	677.5	680.4	738.6	754.5	760.4	753.1	738.6	744.4	750.2	761.8	761.8
90°	601.9	610.6	668.8	681.9	687.7	676.0	671.7	676.0	668.8	673.1	673.1
92.5°	559.7	559.7	587.4	581.5	580.1	581.5	583.0	587.4	580.1	577.2	577.2
95°	511.8	519.0	511.8	517.6	516.1	508.8	505.9	508.8	504.5	504.5	507.4
97.5°	428.9	430.3	417.3	421.6	421.6	415.8	408.5	411.4	407.1	410.0	411.4
100°	401.3	396.9	375.1	372.2	370.7	366.4	362.0	362.0	360.6	359.1	360.6
102.5°	392.5	392.5	363.5	357.6	354.7	347.5	341.7	341.7	341.7	341.7	343.1
105°	359.1	369.3	347.5	343.1	338.7	330.0	321.3	319.8	322.8	319.8	324.2
107.5°	325.7	334.4	322.8	322.8	318.4	309.7	303.9	302.4	303.9	300.9	303.9
110°	306.8	311.1	298.0	298.0	295.1	287.9	286.4	285.0	285.0	280.6	283.5



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CATALOG NUMBER: FFX-CLB-100-727-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	263.1	263.1	263.1	264.6
115°	282.0	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	276.2	251.5	251.5	253.0	258.8	254.4	244.2	244.2	242.8
120°	372.2	375.1	318.4	292.2	286.4	279.1	277.7	274.8	264.6	263.1	269.0
122.5°	328.6	343.1	308.2	298.0	292.2	283.5	277.7	276.2	276.2	269.0	279.1
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	225.3	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	206.4	206.4	206.4	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	187.5	187.5
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	187.5	184.6	184.6	181.7	180.3	181.7	178.8	180.3	180.3
140°	181.7	183.2	187.5	190.5	187.5	184.6	184.6	184.6	186.1	190.5	193.4
142.5°	186.1	187.5	186.1	184.6	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°	203.5	202.1	205.0	209.4	205.0	203.5	203.5	205.0	207.9	209.4	210.8
150°	159.9	155.6	158.5	167.2	165.7	165.7	165.7	167.2	168.6	168.6	170.1
152.5°	126.5	126.5	129.4	129.4	130.8	130.8	129.4	129.4	129.4	130.8	130.8
155°	113.4	111.9	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: SP1-2406-133-3

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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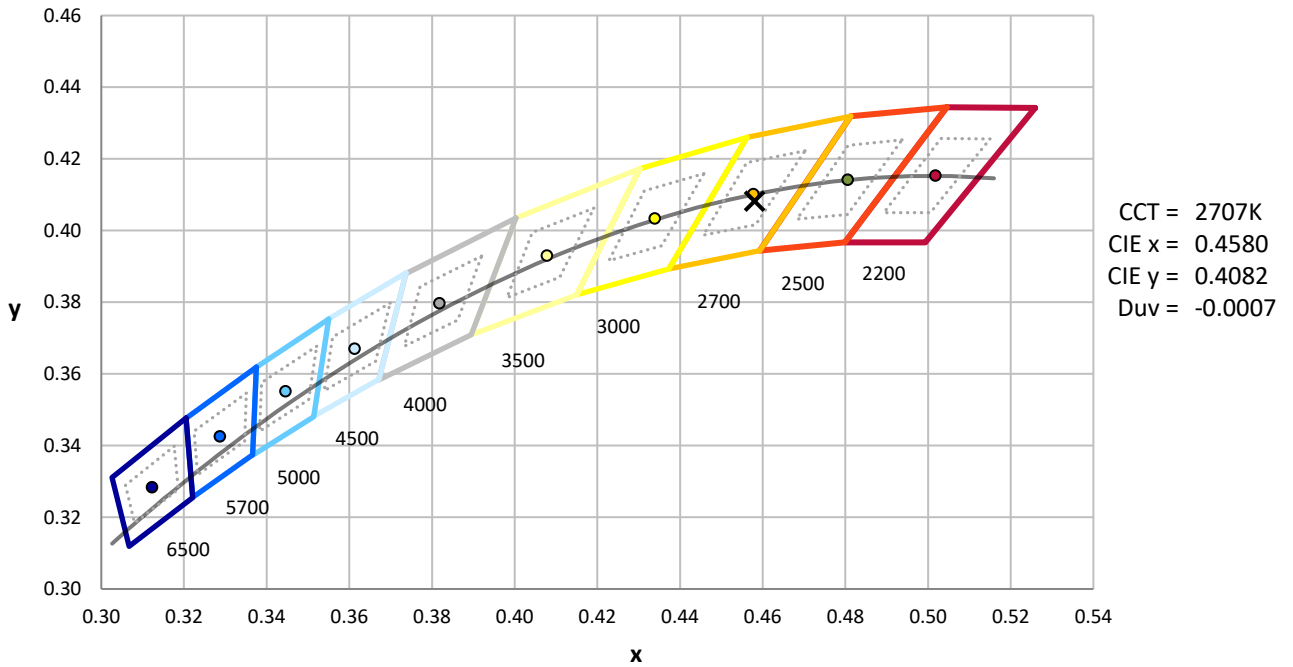
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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



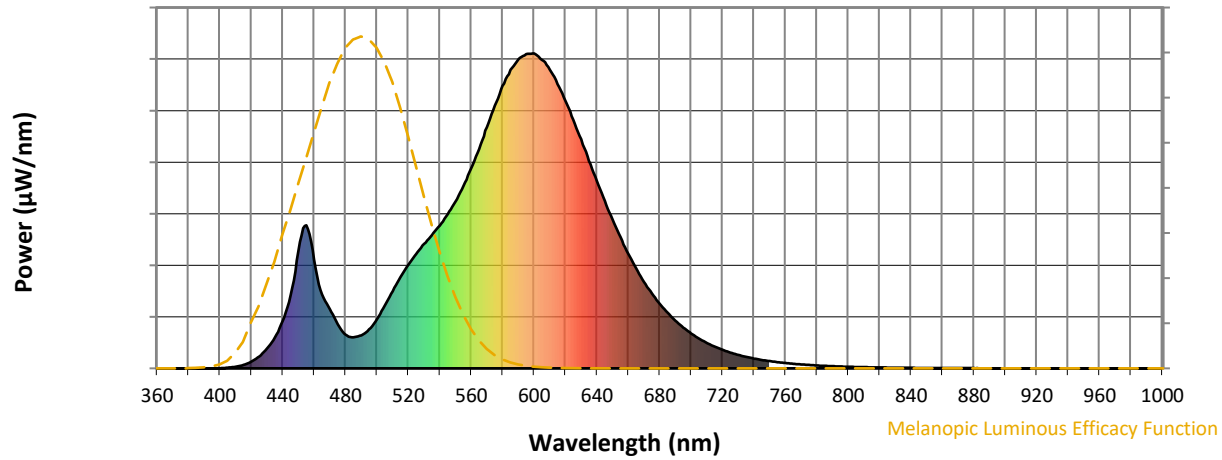
Scotopic Lumens: NR

S/P: 1.12

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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

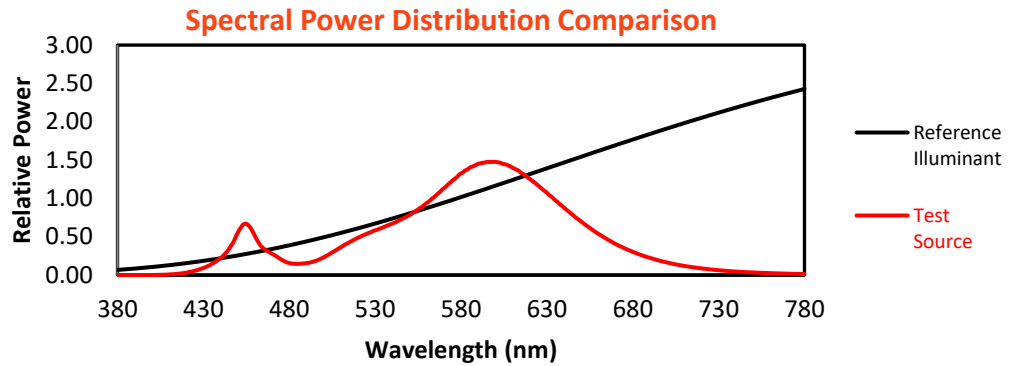
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	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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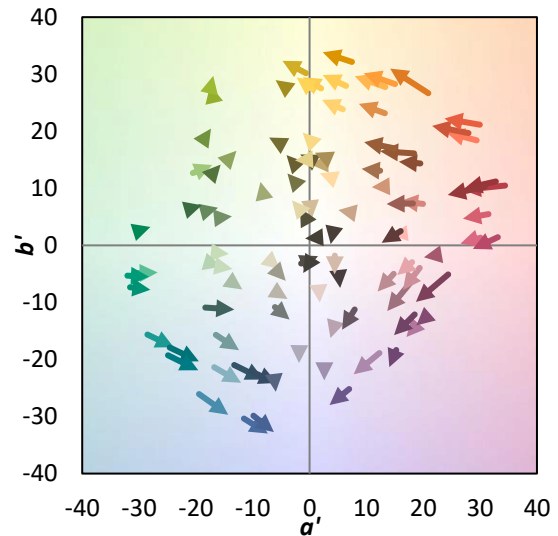
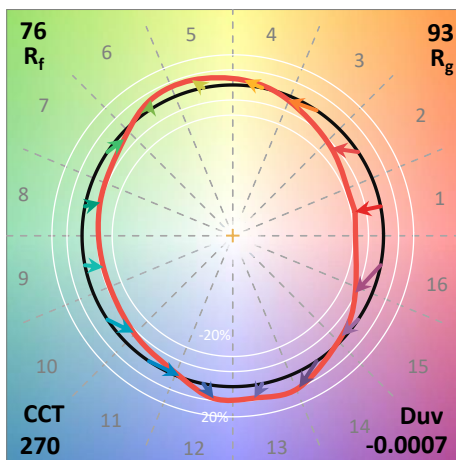
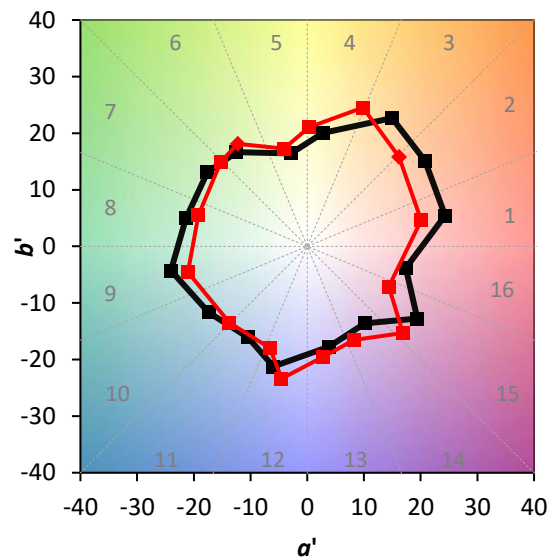
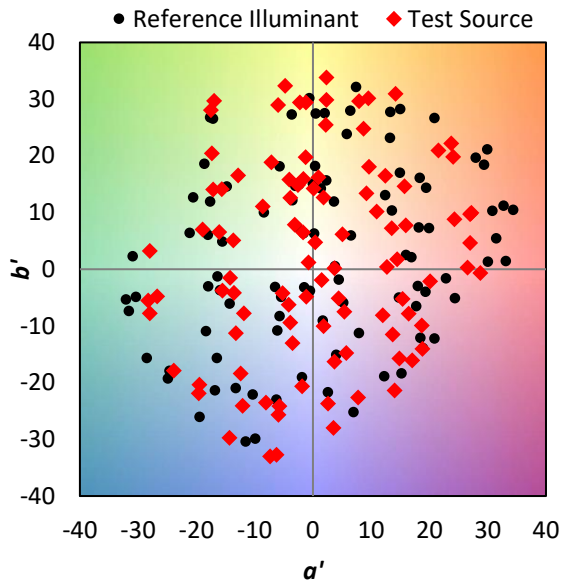
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Summary

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



Color Vector Graphics



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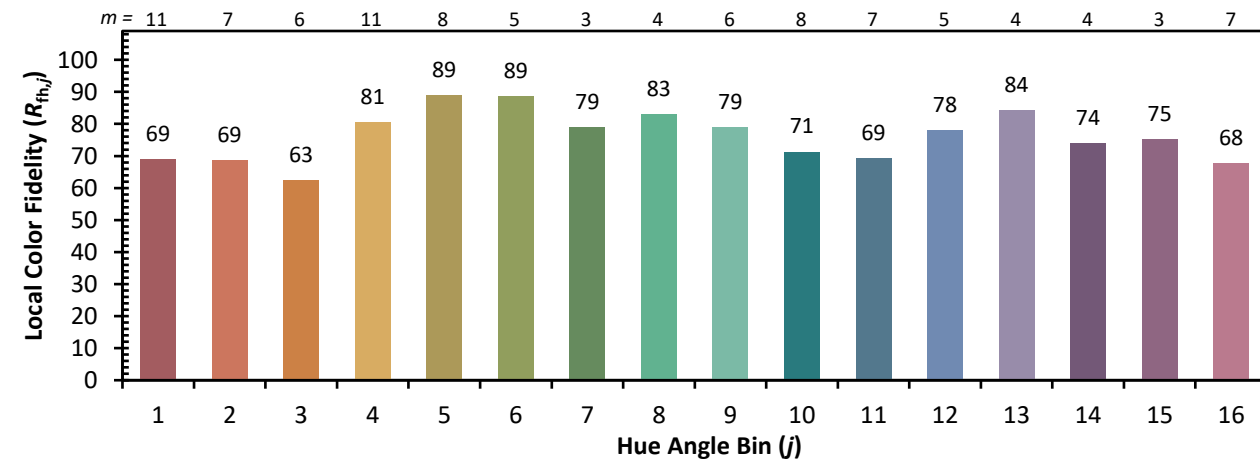
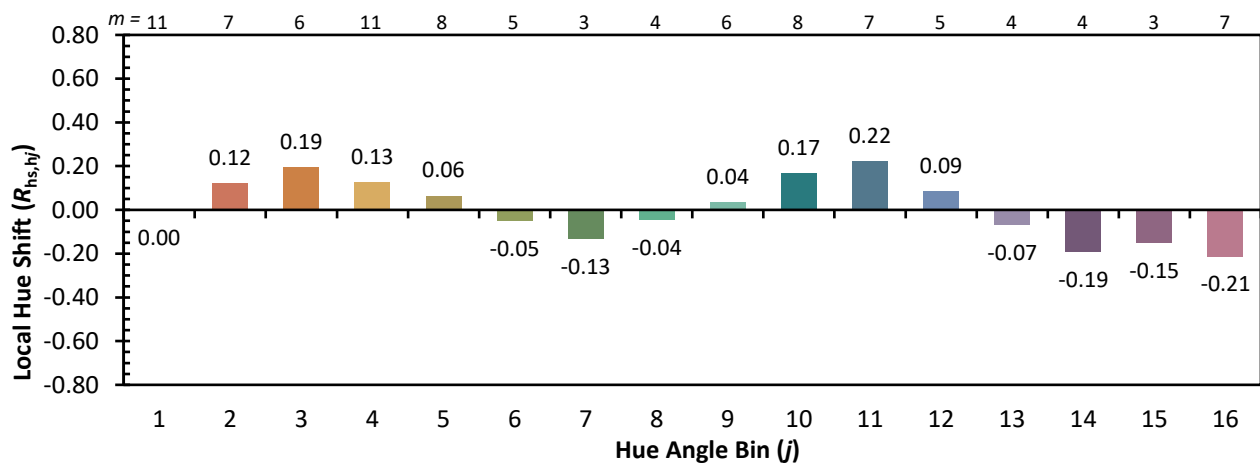
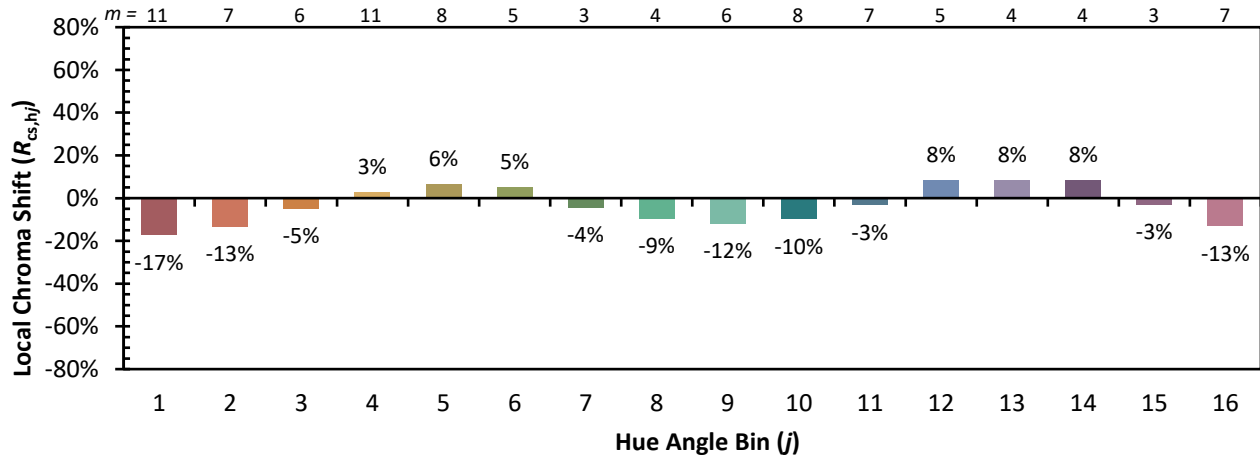
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Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
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
CES24 = 91	CES49 = 80	CES74 = 92	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



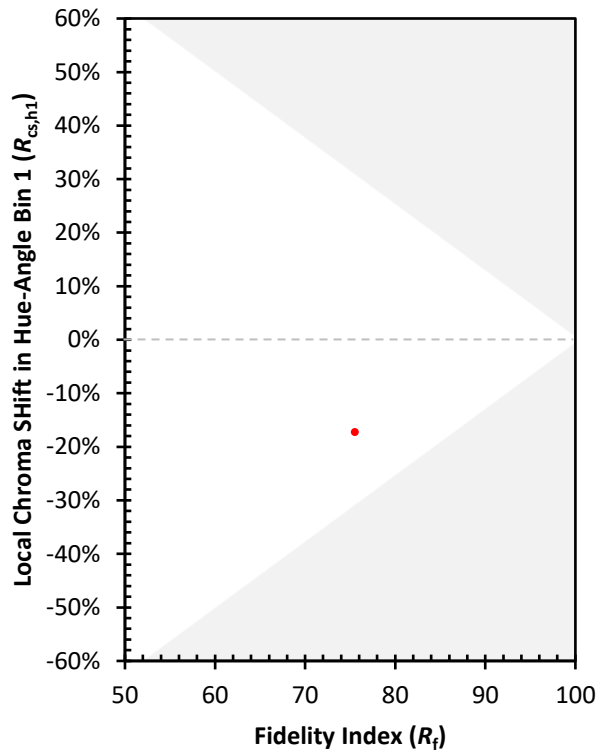
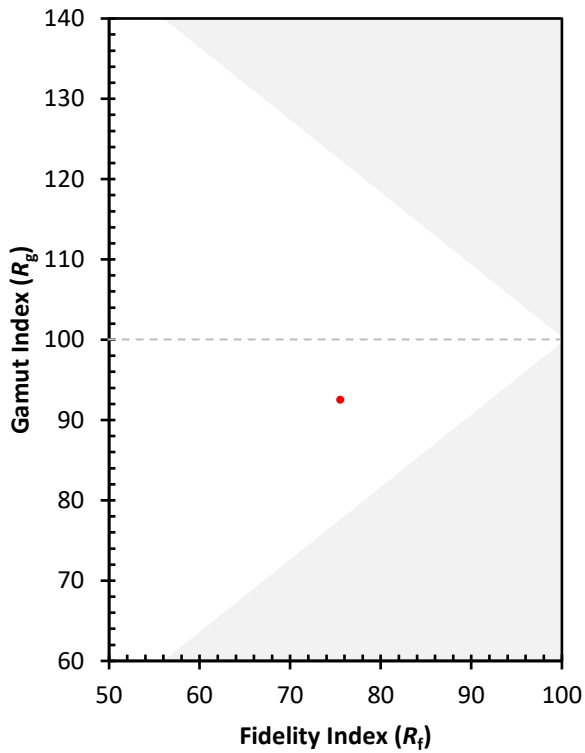
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)