

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: P856386

Luminaire Tested: **FFX-CLB-40-727-U-VM9**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856386
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-40-727-U-VM9
Description: FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

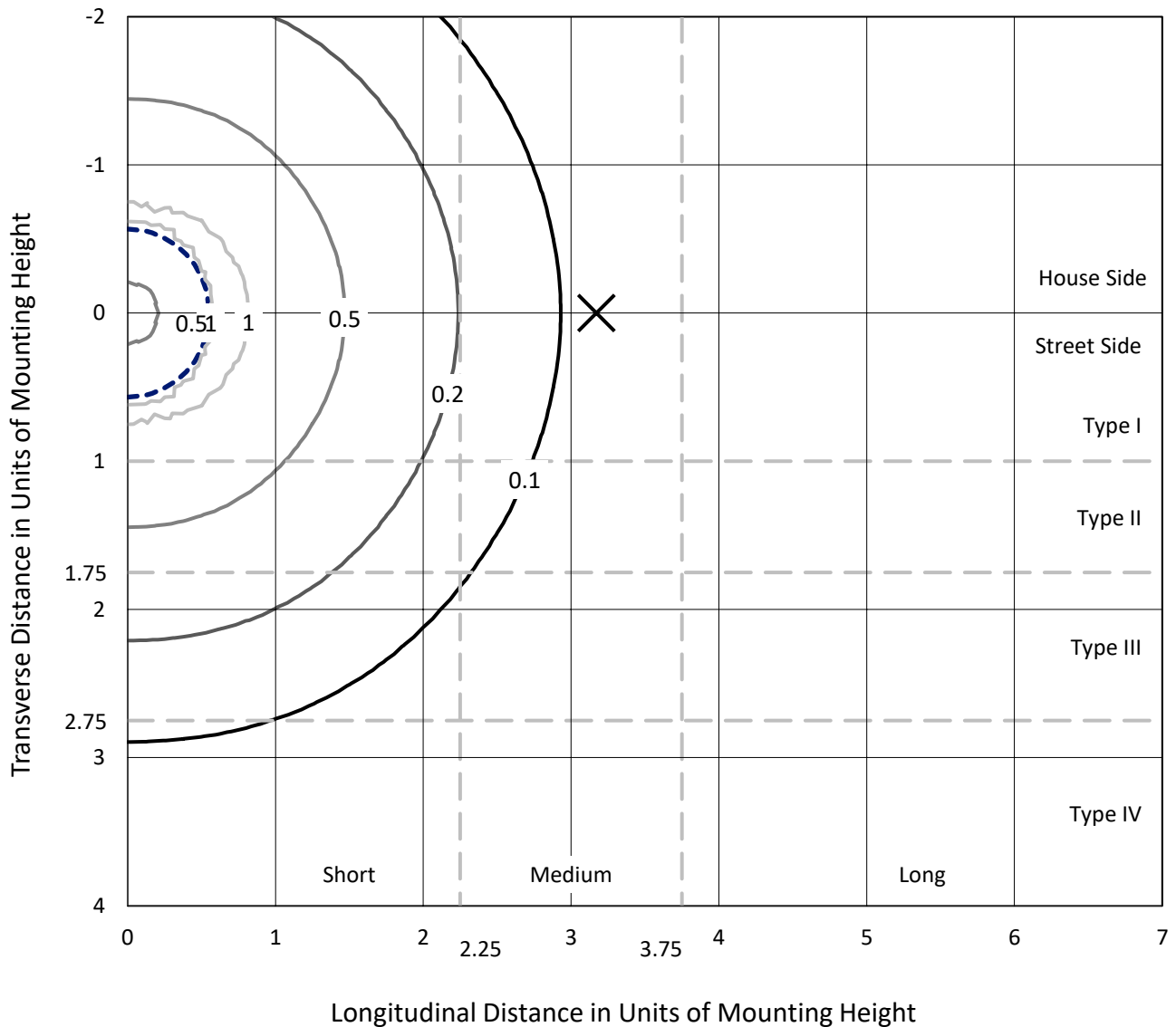
Lumens per Lamp: N/A
Luminaire Lumens: 5893.9 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type V - Short
BUG Rating: B2 - U5 - G3

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

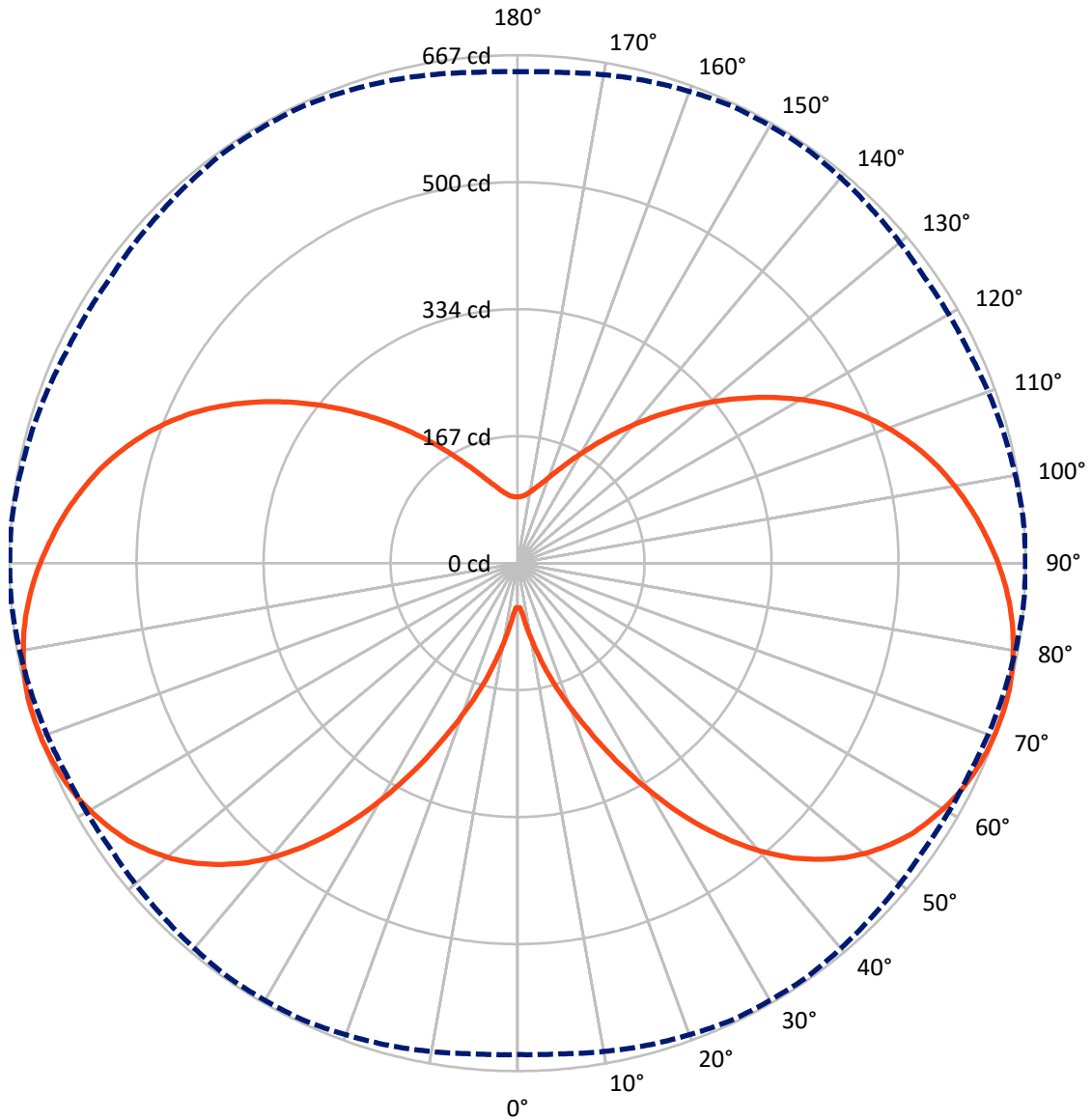
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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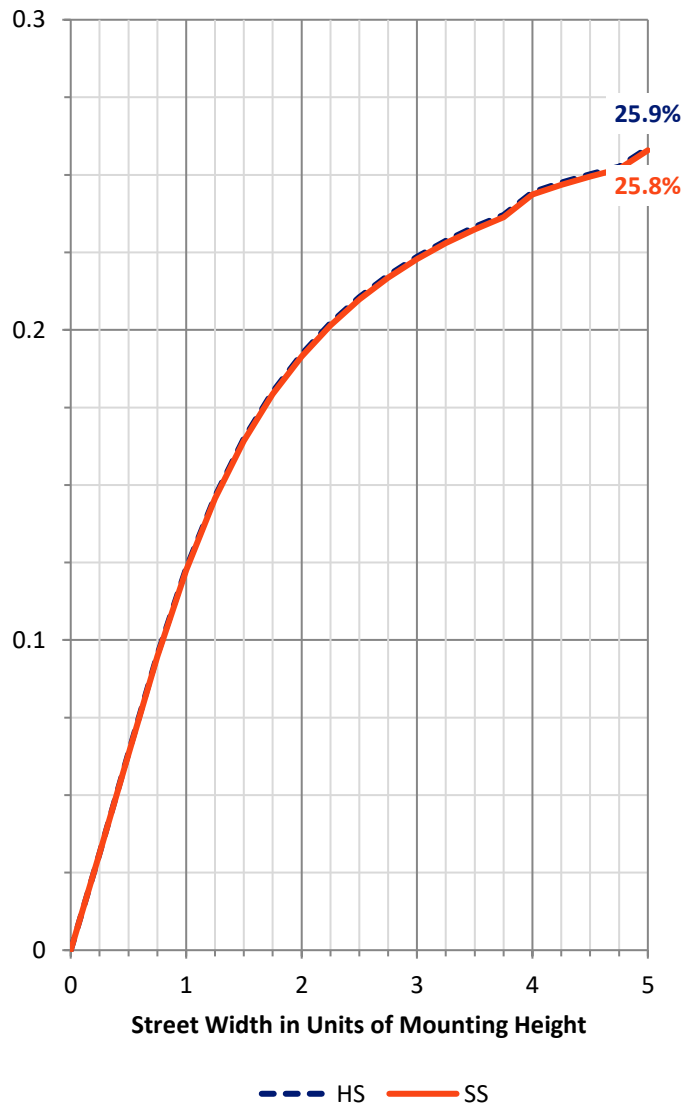
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1726.3	1220.7	2946.9
	% Fixture	29.3	20.7	50.0
Street Side	Lumens	1726.3	1220.7	2946.9
	% Fixture	29.3	20.7	50.0
Total	Lumens	3452.5	2441.4	5893.9
	% Fixture	58.6	41.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.1
10°-20°	44.2	0.8
20°-30°	127.8	2.2
30°-40°	265.7	4.5
40°-50°	421.7	7.2
50°-60°	553.6	9.4
60°-70°	645.5	11.0
70°-80°	693.3	11.8
80°-90°	693.0	11.8
90°-100°	648.7	11.0
100°-110°	569.2	9.7
110°-120°	457.8	7.8
120°-130°	328.8	5.6
130°-140°	211.3	3.6
140°-150°	122.6	2.1
150°-160°	64.4	1.1
160°-170°	30.0	0.5
170°-180°	8.6	0.1
0°-90°	3452.5	58.6
0°-180°	5893.9	100.0



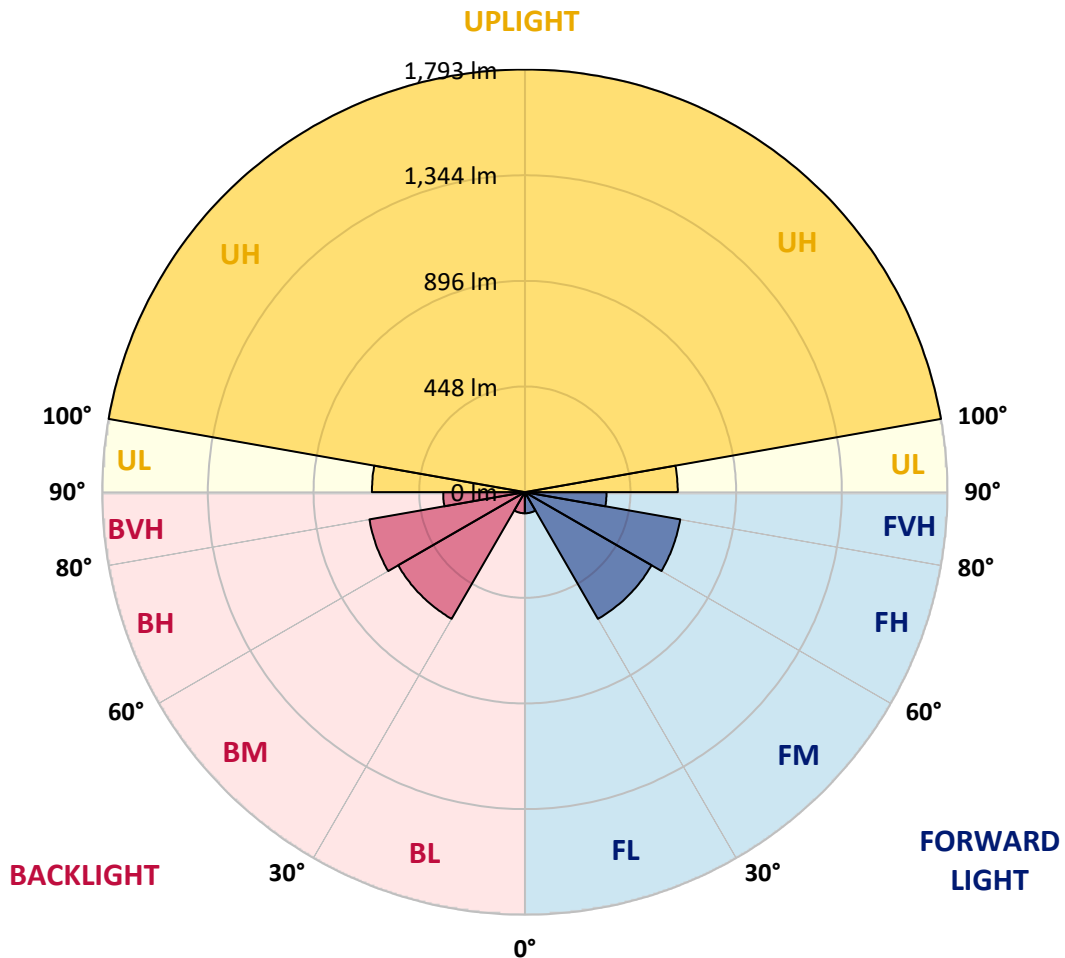
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	89.8	1.5			
FM (30°-60°)	620.5	10.5			
FH (60°-80°)	669.4	11.4			G1/1800
FVH (80°-90°)	346.5	5.9			G3/500
BL (0°-30°)	89.8	1.5	B0/110		
BM (30°-60°)	620.5	10.5	B1/1000		
BH (60°-80°)	669.4	11.4	B2/1000		G1/1800
BVH (80°-90°)	346.5	5.9			G3/500
UL (90°-100°)	648.7	11.0		U4/1000	
UH (100°-180°)	1792.7	30.4		U5	

BUG Rating: B2-U5-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	60.7	60.7	60.3	60.3	59.9	59.6	59.6	59.2	58.8	58.8	58.8
5°	67.5	67.2	67.2	67.2	67.2	66.8	67.2	66.8	66.8	66.8	67.2
7.5°	82.3	81.9	81.9	81.9	82.3	82.3	82.7	83.1	83.5	83.5	83.5
10°	101.7	101.3	101.3	100.9	101.7	101.7	102.1	101.3	102.4	102.4	102.8
12.5°	124.4	124.1	124.1	123.7	124.4	124.1	124.8	124.1	126.0	125.2	125.2
15°	149.1	149.1	148.7	148.3	149.5	149.5	150.2	150.2	151.4	150.6	151.0
17.5°	175.3	174.9	174.9	174.5	175.7	175.7	175.7	176.4	177.9	176.4	177.6
20°	203.3	203.0	203.0	202.6	203.7	203.7	204.5	204.9	206.4	205.2	206.0
22.5°	233.7	233.3	233.3	233.3	234.8	235.2	235.2	236.4	238.3	236.4	237.9
25°	267.5	267.1	267.1	268.2	269.4	269.7	270.5	272.0	273.9	272.0	273.9
27.5°	303.5	303.1	303.9	305.4	306.5	307.3	308.4	308.8	311.5	309.6	312.2
30°	340.7	340.3	341.1	343.0	344.5	346.8	346.8	347.9	351.7	349.0	351.7
32.5°	377.5	377.1	378.2	380.5	382.8	385.1	385.5	387.0	390.8	388.9	391.5
35°	413.9	413.5	415.0	418.1	420.4	422.6	423.4	424.9	429.1	427.2	429.8
37.5°	448.4	448.4	449.9	453.4	456.0	459.1	458.7	460.6	464.4	463.2	465.9
40°	480.7	480.7	482.6	486.7	489.8	491.7	491.3	493.2	497.4	497.0	499.3
42.5°	509.9	509.9	512.5	516.7	519.8	520.9	520.9	522.8	527.3	527.0	529.2
45°	534.5	535.7	538.7	543.3	545.9	547.1	546.3	548.2	553.1	553.1	555.0
47.5°	557.3	558.8	561.9	566.4	568.3	569.5	568.7	570.2	575.1	575.9	577.8
50°	577.0	578.2	582.0	586.9	588.8	588.8	587.7	589.2	594.5	596.0	597.5
52.5°	594.1	595.2	599.4	604.7	605.9	605.5	604.0	605.5	610.8	612.3	613.5
55°	607.8	608.9	613.8	619.1	620.3	619.1	616.9	618.8	623.7	626.0	627.9
57.5°	618.8	619.9	625.6	630.9	632.0	629.8	627.1	629.0	634.7	637.4	638.1
60°	627.9	629.0	635.1	640.8	641.5	638.9	635.8	637.7	643.4	646.5	647.2
62.5°	635.1	636.2	642.7	649.1	649.5	646.1	642.7	644.6	650.3	653.7	654.8
65°	640.0	641.2	648.4	654.8	655.6	651.4	648.0	649.9	655.2	659.4	660.1
67.5°	643.4	644.6	652.5	659.4	659.7	655.2	651.4	652.9	659.0	663.2	663.9
70°	644.9	646.1	654.4	661.6	662.0	657.1	652.5	654.4	660.5	665.4	666.2
72.5°	645.3	646.8	655.6	662.8	663.2	657.5	652.9	654.4	660.9	666.6	667.0
75°	643.8	645.7	654.8	662.4	662.4	655.9	651.0	652.5	659.7	665.8	667.0
77.5°	641.9	643.0	652.5	660.1	659.7	652.9	647.2	649.5	656.7	663.5	664.3
80°	637.7	639.3	648.7	655.9	655.2	647.6	642.3	644.6	652.2	659.4	660.1
82.5°	632.4	633.9	643.4	649.9	649.1	641.2	635.8	638.5	646.5	654.1	654.8
85°	626.0	627.5	636.6	642.7	641.5	633.6	628.3	630.5	639.3	646.8	647.6
87.5°	617.6	619.1	628.3	633.6	632.4	624.1	619.5	622.6	630.5	638.5	638.9
90°	608.1	610.0	618.0	622.9	621.4	613.8	609.7	612.7	620.7	628.3	629.0
92.5°	598.7	599.4	607.0	611.2	610.0	603.2	599.4	602.8	610.0	617.6	617.6
95°	587.3	588.4	595.2	598.7	597.5	591.8	588.4	592.2	598.7	605.9	606.2
97.5°	575.1	576.3	582.0	585.4	584.2	579.3	577.0	580.8	586.5	593.4	593.7
100°	562.2	563.0	567.9	571.0	569.8	566.0	564.5	568.3	573.6	580.1	580.1
102.5°	547.8	548.6	552.4	554.3	553.9	550.9	550.9	555.0	559.2	565.3	566.0
105°	532.7	533.4	536.1	537.2	536.8	535.7	536.4	540.6	544.0	549.3	550.1
107.5°	515.6	516.3	517.9	518.2	518.2	518.2	520.9	524.7	528.5	532.3	532.7
110°	497.4	497.7	498.9	498.5	498.5	499.3	503.1	507.2	510.3	514.1	514.4



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 CATALOG NUMBER: FFX-CLB-40-727-U-VM9

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	477.6	478.0	478.8	477.3	477.6	479.2	484.1	488.6	490.5	494.3	494.3
115°	456.8	456.4	457.2	455.3	454.9	457.5	462.8	468.2	469.7	472.3	472.7
117.5°	434.0	434.4	434.0	431.7	431.4	435.1	440.1	445.0	446.9	449.9	449.2
120°	410.5	410.1	410.5	407.8	407.5	411.6	416.6	421.5	422.6	425.3	424.5
122.5°	386.6	386.2	385.8	383.2	383.2	386.6	392.7	397.6	396.8	399.9	399.5
125°	361.9	361.9	361.2	358.5	358.5	362.7	367.6	372.2	371.4	374.8	373.7
127.5°	337.6	337.6	336.9	334.6	334.6	338.4	343.0	347.5	346.4	349.4	348.3
130°	313.7	313.7	313.0	310.7	310.7	313.7	318.7	322.5	321.0	323.6	323.2
132.5°	291.0	290.6	290.2	287.9	288.3	291.4	295.2	298.6	297.1	300.1	299.0
135°	269.0	268.6	268.2	265.9	266.3	269.4	272.8	275.4	274.3	276.2	275.8
137.5°	248.1	247.7	247.4	245.5	245.8	248.1	251.5	253.8	252.3	254.9	253.8
140°	228.4	228.0	227.2	226.1	226.5	228.8	230.7	233.3	231.8	234.1	232.9
142.5°	209.4	209.4	208.7	207.5	207.9	210.2	211.7	213.6	212.1	214.0	213.2
145°	192.0	192.0	191.2	190.4	190.4	192.3	193.5	195.4	193.9	195.8	195.0
147.5°	176.0	176.0	175.3	174.5	174.5	176.4	177.2	178.7	177.2	178.7	177.9
150°	161.2	161.2	160.9	160.1	160.5	161.2	162.0	163.1	162.0	163.1	162.8
152.5°	148.3	148.3	148.0	147.6	147.2	148.3	148.7	149.9	148.7	149.9	149.1
155°	137.0	136.6	136.6	135.8	135.8	136.6	137.0	137.7	136.6	137.7	137.3
157.5°	126.7	126.7	126.3	126.0	126.0	126.3	126.7	127.1	126.3	127.5	126.7
160°	118.0	118.0	117.6	117.2	117.2	117.6	117.6	118.0	117.2	118.0	117.6
162.5°	110.4	110.4	110.0	110.0	109.6	110.0	110.4	110.4	110.0	110.4	110.0
165°	104.3	104.3	104.0	103.6	103.6	104.0	104.0	104.3	103.6	104.0	104.0
167.5°	98.6	98.6	98.6	98.3	97.9	98.3	98.3	98.3	97.9	98.3	98.3
170°	94.5	94.5	94.5	94.1	93.7	94.1	94.1	94.1	93.7	94.1	94.1
172.5°	91.1	91.1	91.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
175°	88.8	88.8	88.8	88.8	88.4	88.8	88.8	88.8	88.8	88.8	88.4
177.5°	87.6	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
180°	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9

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

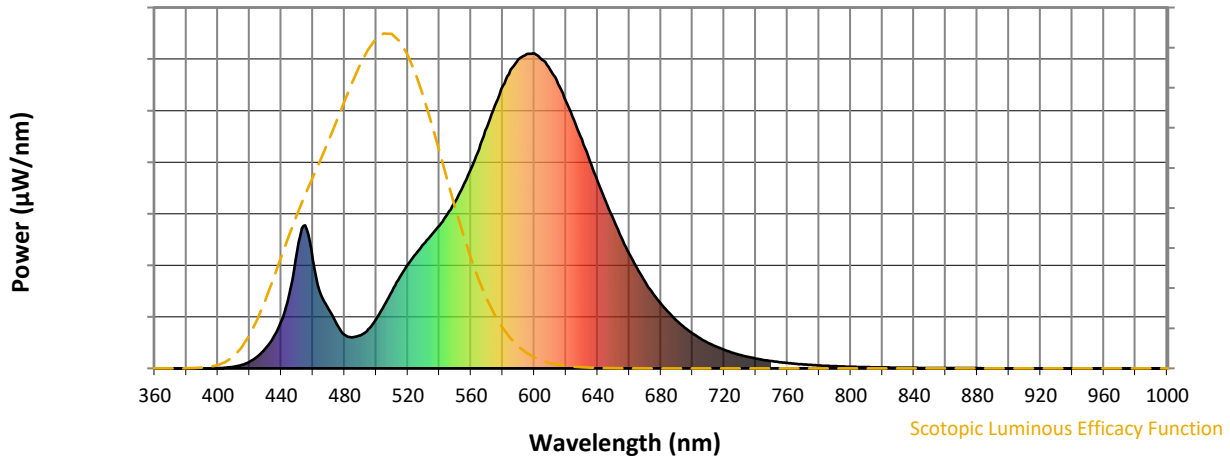


Photopic Lumens: NR

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



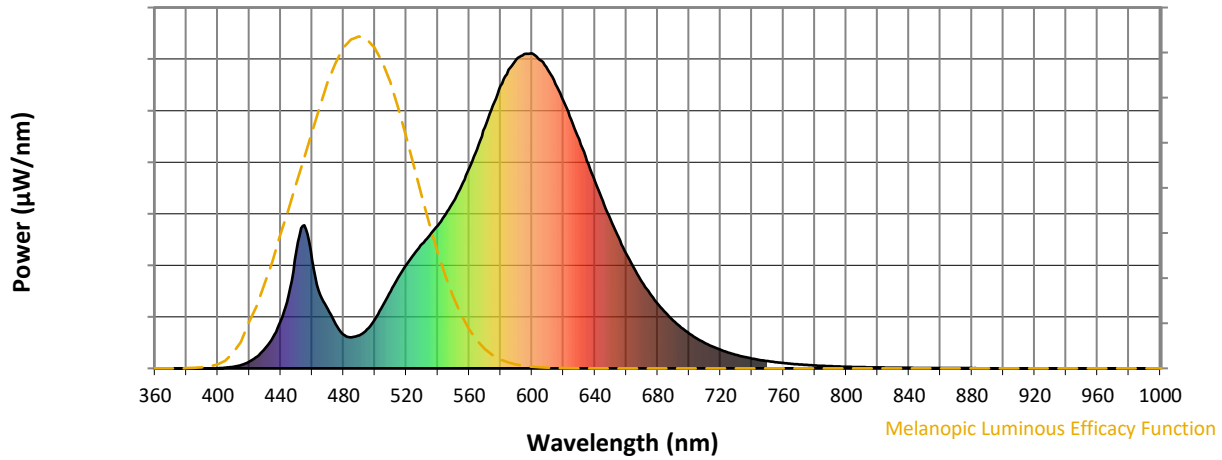
Scotopic Lumens: NR

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

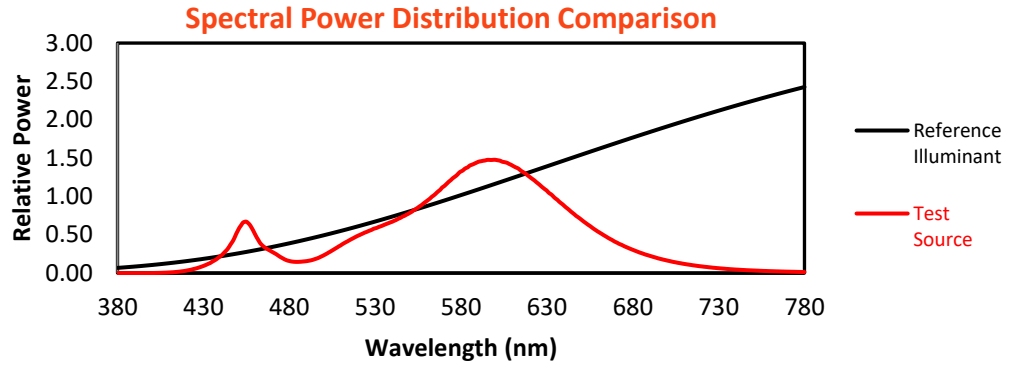
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156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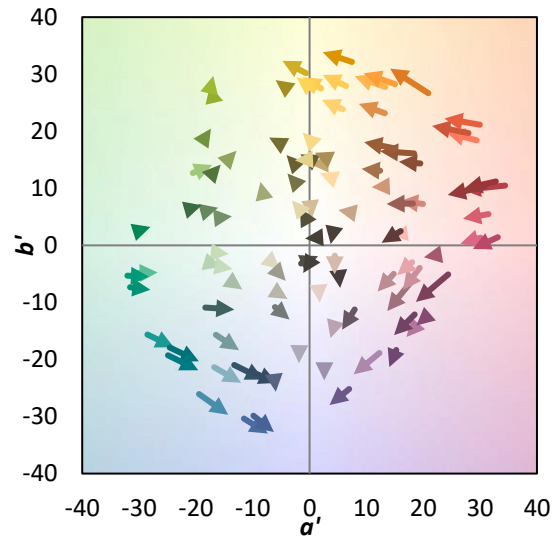
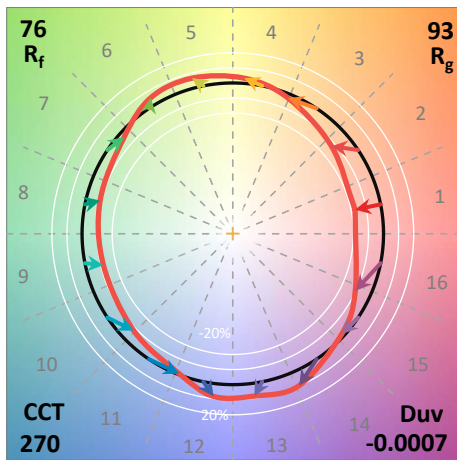
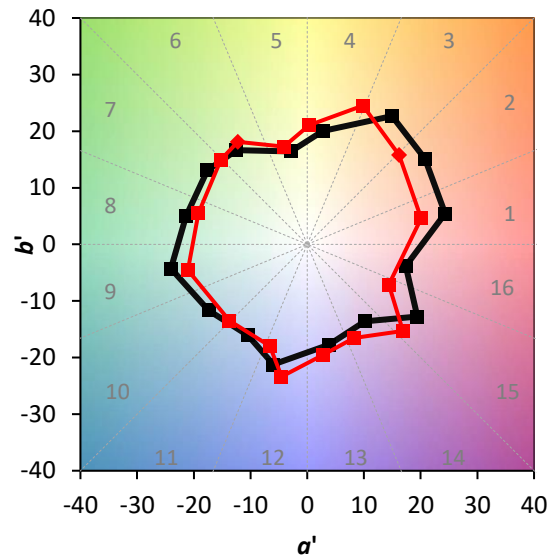
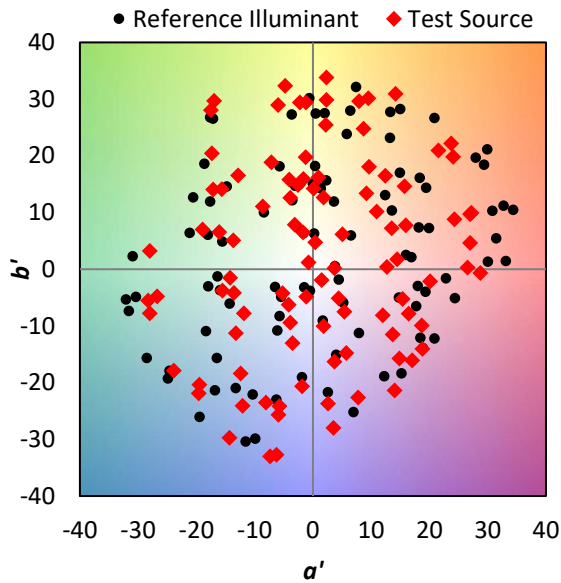
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Summary

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



Color Vector Graphics

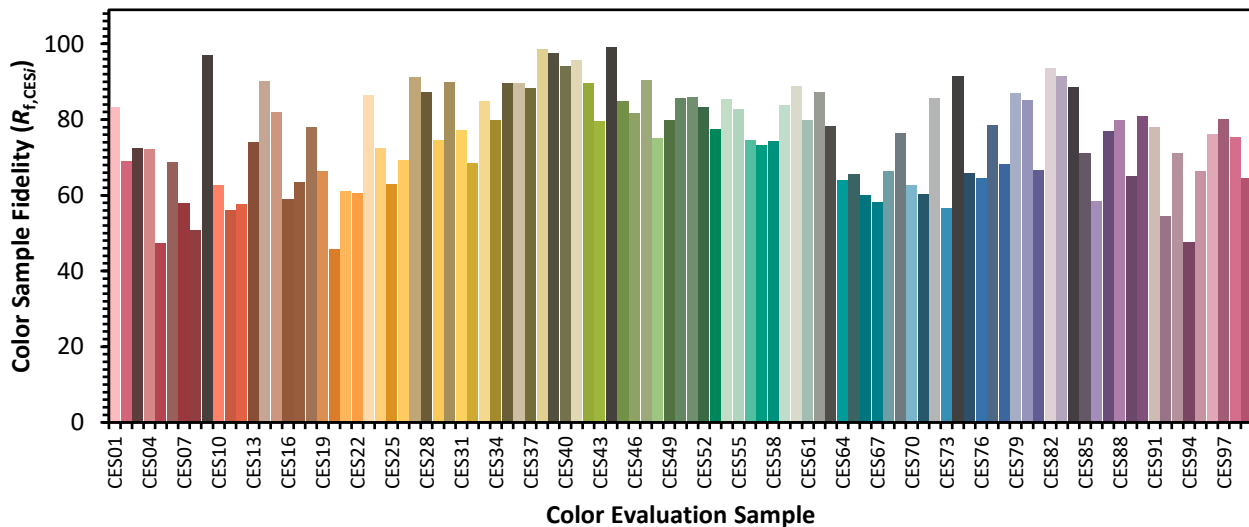


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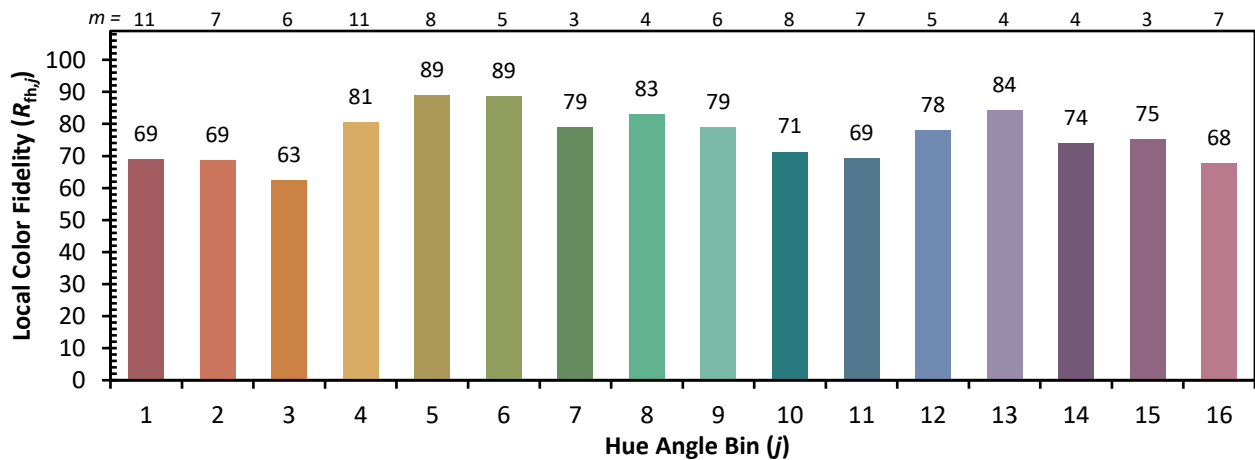
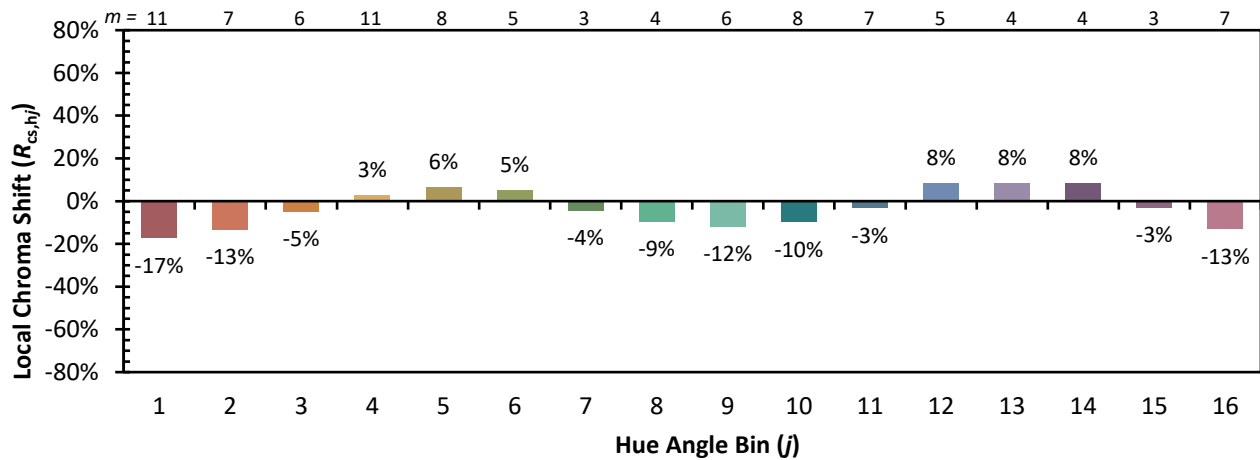
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Individual Sample Fidelity Index ($R_{f,i}$)

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	



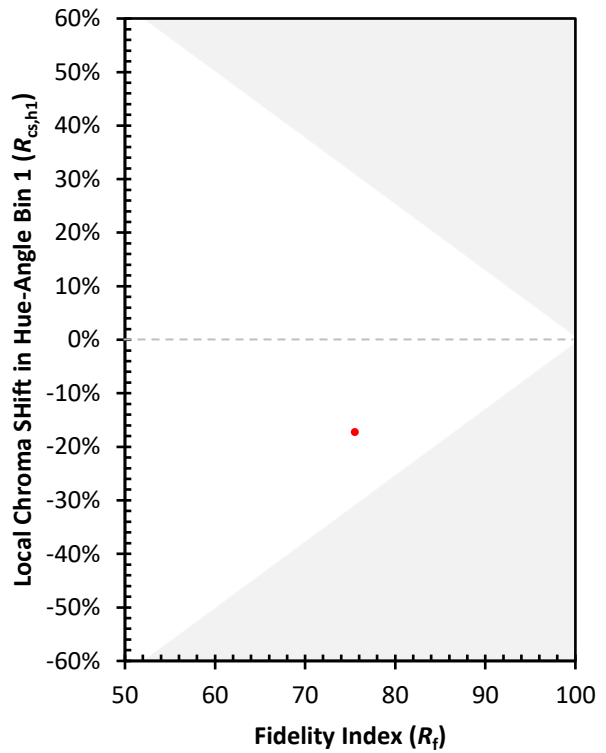
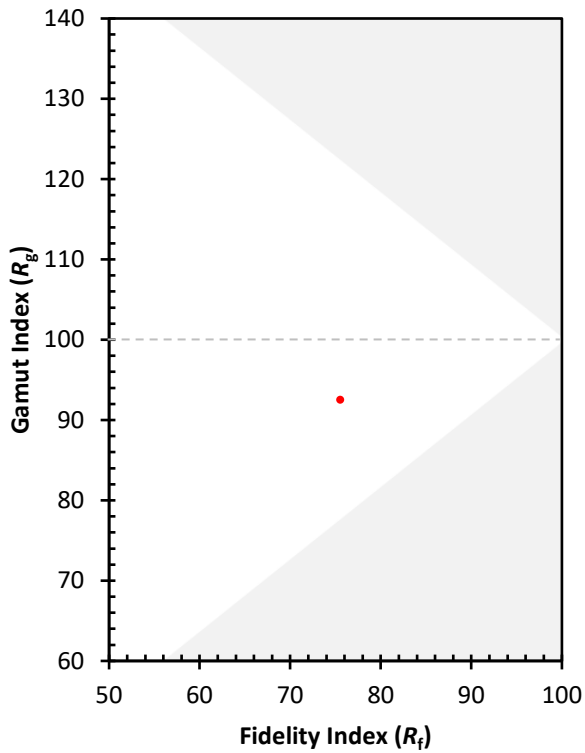
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)