

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: P856385

Luminaire Tested: **FFX-CLB-50-727-U-VM9**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856385
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-727-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

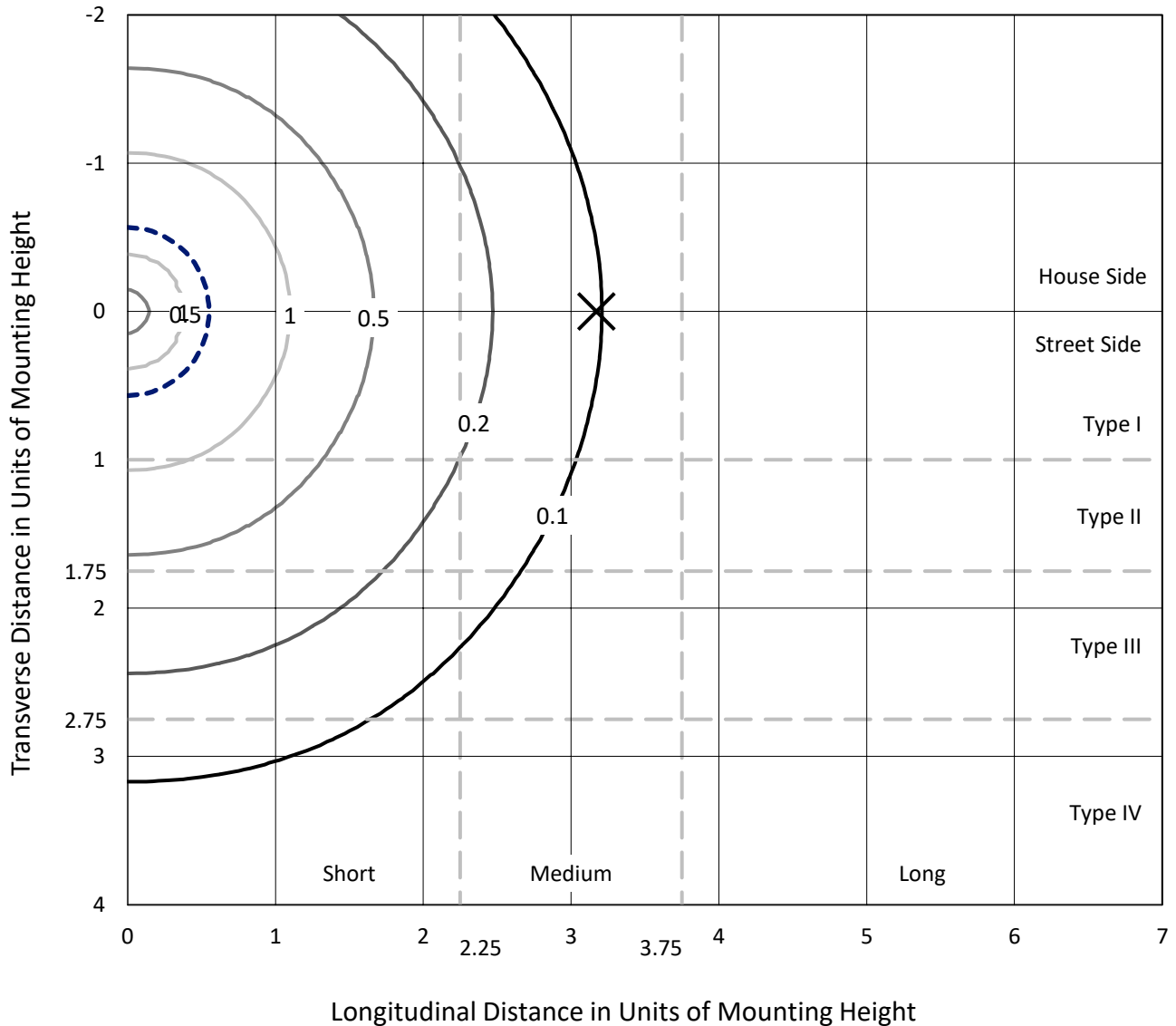
Lumens per Lamp: N/A
Luminaire Lumens: 7540.8 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type V - Short
BUG Rating: B2 - U5 - G3

Input Watts (W): 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

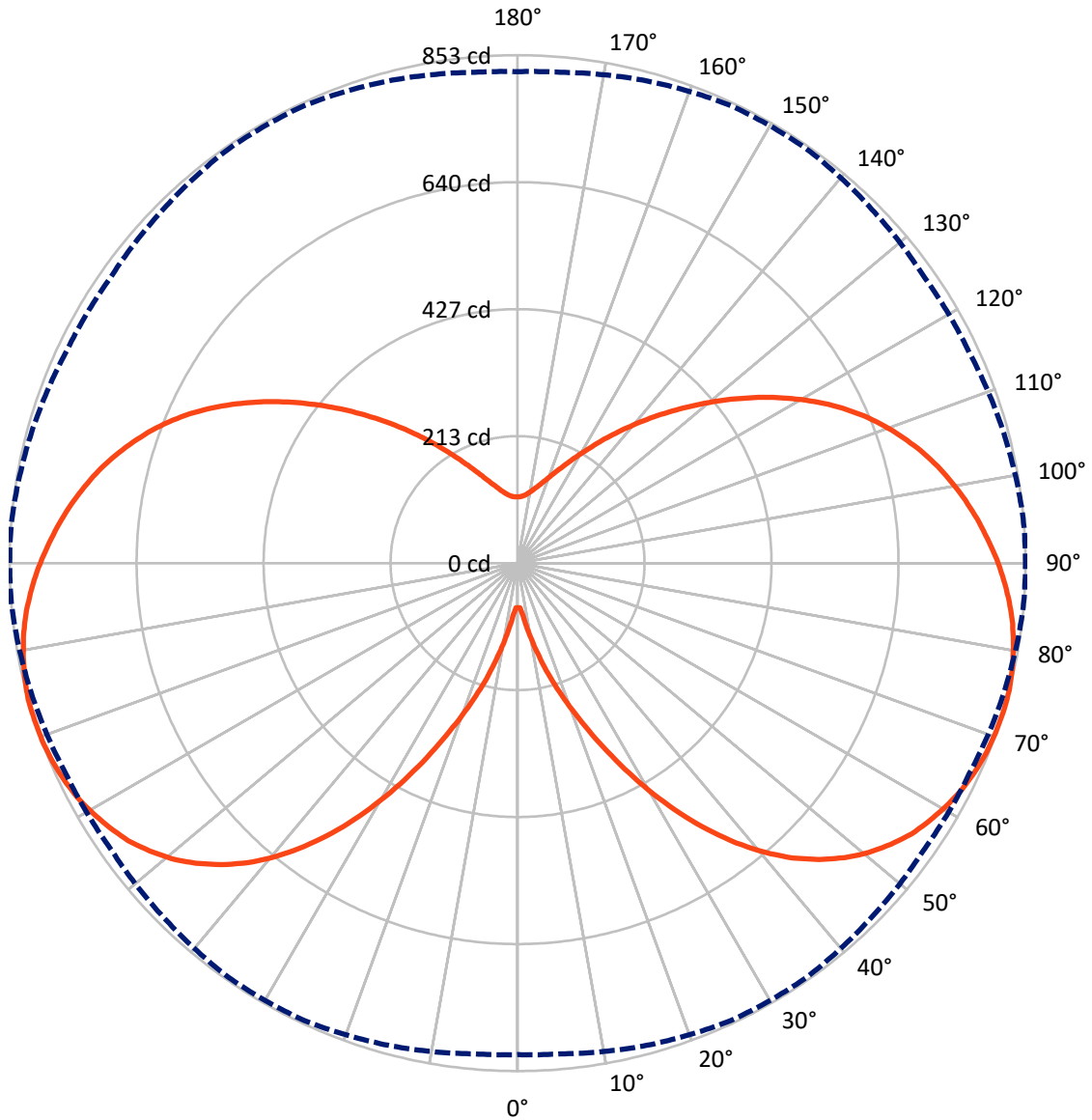
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.3 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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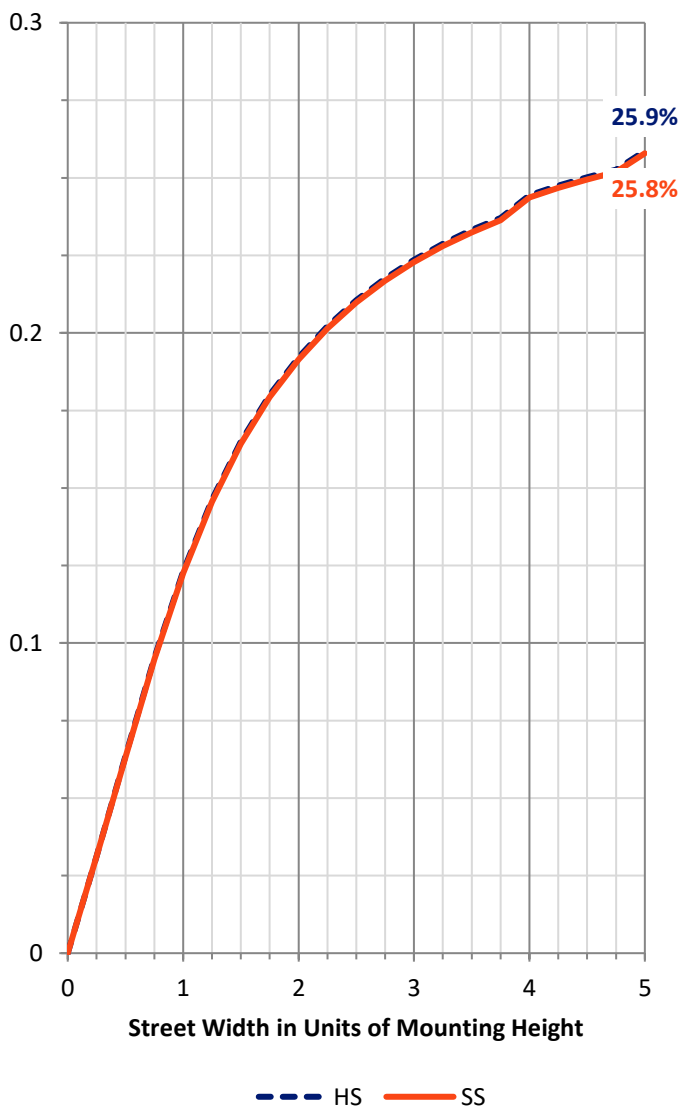
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2208.6	1561.8	3770.4
	% Fixture	29.3	20.7	50.0
Street Side	Lumens	2208.6	1561.8	3770.4
	% Fixture	29.3	20.7	50.0
Total	Lumens	4417.2	3123.5	7540.8
	% Fixture	58.6	41.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.1
10°-20°	56.6	0.8
20°-30°	163.5	2.2
30°-40°	340.0	4.5
40°-50°	539.6	7.2
50°-60°	708.3	9.4
60°-70°	825.9	11.0
70°-80°	887.1	11.8
80°-90°	886.7	11.8
90°-100°	830.0	11.0
100°-110°	728.2	9.7
110°-120°	585.7	7.8
120°-130°	420.6	5.6
130°-140°	270.4	3.6
140°-150°	156.9	2.1
150°-160°	82.4	1.1
160°-170°	38.3	0.5
170°-180°	11.0	0.1
0°-90°	4417.2	58.6
0°-180°	7540.8	100.0

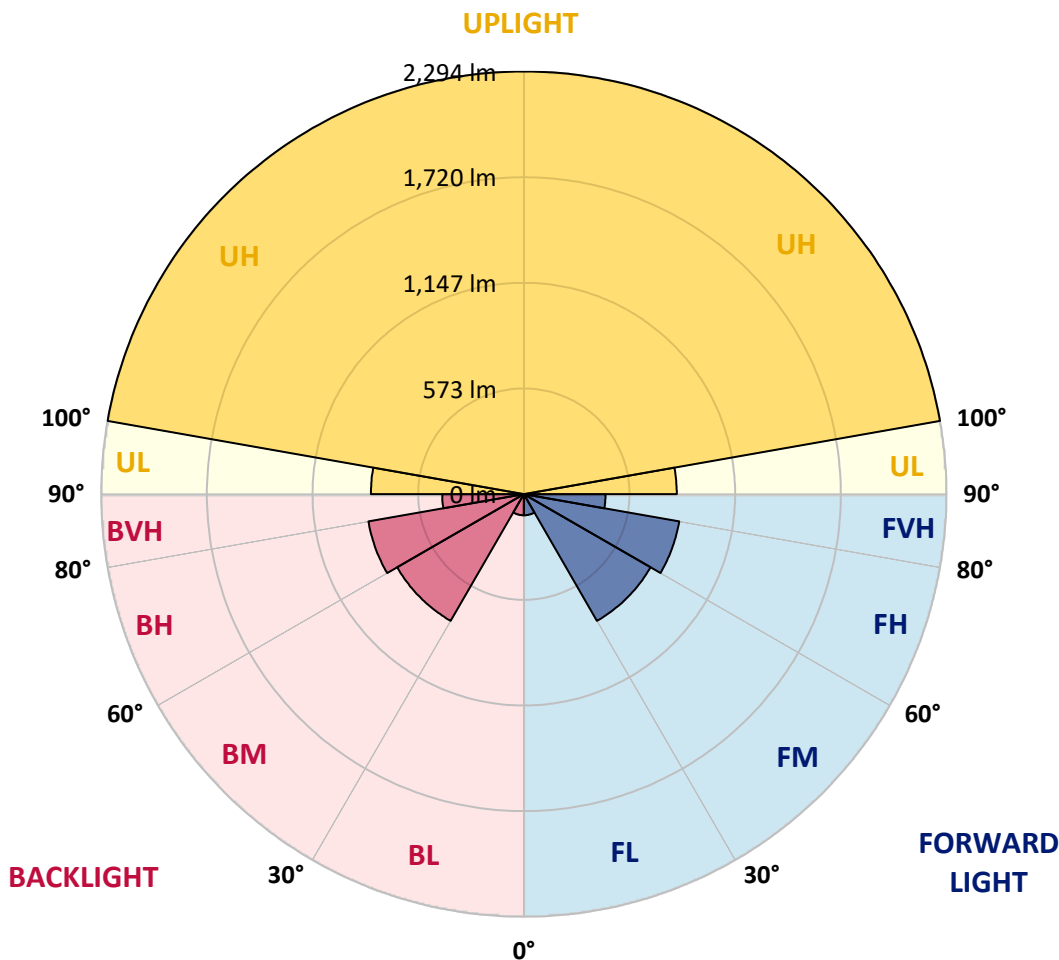


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.9	1.5			
FM (30°-60°)	793.9	10.5			
FH (60°-80°)	856.5	11.4			G1/1800
FVH (80°-90°)	443.3	5.9			G3/500
BL (0°-30°)	114.9	1.5	B1/500		
BM (30°-60°)	793.9	10.5	B1/1000		
BH (60°-80°)	856.5	11.4	B2/1000		G1/1800
BVH (80°-90°)	443.3	5.9			G3/500
UL (90°-100°)	830.0	11.0		U4/1000	
UH (100°-180°)	2293.5	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°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
2.5°	77.7	77.7	77.2	77.2	76.7	76.2	76.2	75.7	75.2	75.2	75.2
5°	86.4	85.9	85.9	85.9	85.9	85.4	85.9	85.4	85.4	85.4	85.9
7.5°	105.3	104.8	104.8	104.8	105.3	105.3	105.8	106.3	106.8	106.8	106.8
10°	130.1	129.6	129.6	129.1	130.1	130.1	130.6	129.6	131.1	131.1	131.5
12.5°	159.2	158.7	158.7	158.2	159.2	158.7	159.7	158.7	161.1	160.2	160.2
15°	190.8	190.8	190.3	189.8	191.2	191.2	192.2	192.2	193.7	192.7	193.2
17.5°	224.2	223.8	223.8	223.3	224.7	224.7	224.7	225.7	227.6	225.7	227.2
20°	260.2	259.7	259.7	259.2	260.7	260.7	261.6	262.1	264.0	262.6	263.6
22.5°	299.0	298.5	298.5	298.5	300.5	300.9	300.9	302.4	304.8	302.4	304.3
25°	342.2	341.7	341.7	343.2	344.6	345.1	346.1	348.0	350.4	348.0	350.4
27.5°	388.3	387.8	388.8	390.7	392.2	393.2	394.6	395.1	398.5	396.1	399.5
30°	435.9	435.4	436.4	438.8	440.7	443.6	443.6	445.1	450.0	446.6	450.0
32.5°	483.0	482.5	483.9	486.8	489.8	492.7	493.2	495.1	499.9	497.5	500.9
35°	529.6	529.1	531.0	534.9	537.8	540.7	541.7	543.6	549.0	546.5	549.9
37.5°	573.7	573.7	575.7	580.0	583.4	587.3	586.8	589.3	594.1	592.7	596.1
40°	615.0	615.0	617.4	622.7	626.6	629.1	628.6	631.0	636.3	635.9	638.8
42.5°	652.4	652.4	655.8	661.1	665.0	666.4	666.4	668.9	674.7	674.2	677.1
45°	683.9	685.4	689.2	695.1	698.5	699.9	699.0	701.4	707.7	707.7	710.1
47.5°	713.0	715.0	718.9	724.7	727.1	728.6	727.6	729.5	735.8	736.8	739.2
50°	738.3	739.7	744.6	750.9	753.3	753.3	751.9	753.8	760.6	762.5	764.5
52.5°	760.1	761.6	766.9	773.7	775.2	774.7	772.7	774.7	781.5	783.4	784.9
55°	777.6	779.0	785.4	792.1	793.6	792.1	789.2	791.7	798.0	800.9	803.3
57.5°	791.7	793.1	800.4	807.2	808.7	805.7	802.3	804.8	812.0	815.4	816.4
60°	803.3	804.8	812.5	819.8	820.8	817.4	813.5	815.9	823.2	827.1	828.1
62.5°	812.5	814.0	822.2	830.5	831.0	826.6	822.2	824.7	832.0	836.3	837.8
65°	818.8	820.3	829.5	837.8	838.7	833.4	829.0	831.5	838.3	843.6	844.6
67.5°	823.2	824.7	834.9	843.6	844.1	838.3	833.4	835.3	843.1	848.5	849.4
70°	825.2	826.6	837.3	846.5	847.0	840.7	834.9	837.3	845.1	851.4	852.3
72.5°	825.6	827.6	838.7	848.0	848.5	841.2	835.3	837.3	845.5	852.8	853.3
75°	823.7	826.1	837.8	847.5	847.5	839.2	832.9	834.9	844.1	851.9	853.3
77.5°	821.3	822.7	834.9	844.6	844.1	835.3	828.1	831.0	840.2	848.9	849.9
80°	815.9	817.9	830.0	839.2	838.3	828.6	821.8	824.7	834.4	843.6	844.6
82.5°	809.1	811.1	823.2	831.5	830.5	820.3	813.5	816.9	827.1	836.8	837.8
85°	800.9	802.8	814.5	822.2	820.8	810.6	803.8	806.7	817.9	827.6	828.6
87.5°	790.2	792.1	803.8	810.6	809.1	798.5	792.6	796.5	806.7	816.9	817.4
90°	778.1	780.5	790.7	797.0	795.1	785.4	780.0	783.9	794.1	803.8	804.8
92.5°	765.9	766.9	776.6	782.0	780.5	771.8	766.9	771.3	780.5	790.2	790.2
95°	751.4	752.8	761.6	765.9	764.5	757.2	752.8	757.7	765.9	775.2	775.6
97.5°	735.8	737.3	744.6	748.9	747.5	741.2	738.3	743.1	750.4	759.1	759.6
100°	719.3	720.3	726.6	730.5	729.0	724.2	722.3	727.1	733.9	742.2	742.2
102.5°	700.9	701.9	706.7	709.1	708.7	704.8	704.8	710.1	715.5	723.2	724.2
105°	681.5	682.5	685.8	687.3	686.8	685.4	686.3	691.7	696.0	702.8	703.8
107.5°	659.6	660.6	662.6	663.0	663.0	663.0	666.4	671.3	676.1	681.0	681.5
110°	636.3	636.8	638.3	637.8	637.8	638.8	643.6	649.0	652.8	657.7	658.2



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 CATALOG NUMBER: FFX-CLB-50-727-U-VM9

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	611.1	611.6	612.6	610.6	611.1	613.0	619.4	625.2	627.6	632.5	632.5
115°	584.4	583.9	584.9	582.5	582.0	585.4	592.2	599.0	600.9	604.3	604.8
117.5°	555.3	555.8	555.3	552.4	551.9	556.7	563.0	569.4	571.8	575.7	574.7
120°	525.2	524.7	525.2	521.8	521.3	526.6	533.0	539.3	540.7	544.1	543.1
122.5°	494.6	494.1	493.6	490.2	490.2	494.6	502.4	508.7	507.7	511.6	511.1
125°	463.1	463.1	462.1	458.7	458.7	464.0	470.3	476.2	475.2	479.6	478.1
127.5°	432.0	432.0	431.0	428.1	428.1	433.0	438.8	444.6	443.2	447.0	445.6
130°	401.4	401.4	400.4	397.5	397.5	401.4	407.7	412.6	410.6	414.0	413.5
132.5°	372.3	371.8	371.3	368.4	368.9	372.8	377.6	382.0	380.1	383.9	382.5
135°	344.1	343.7	343.2	340.3	340.7	344.6	349.0	352.4	350.9	353.4	352.9
137.5°	317.4	317.0	316.5	314.0	314.5	317.4	321.8	324.7	322.8	326.2	324.7
140°	292.2	291.7	290.7	289.3	289.8	292.7	295.1	298.5	296.6	299.5	298.0
142.5°	267.9	267.9	267.0	265.5	266.0	268.9	270.8	273.3	271.3	273.8	272.8
145°	245.6	245.6	244.6	243.7	243.7	246.1	247.5	250.0	248.0	250.5	249.5
147.5°	225.2	225.2	224.2	223.3	223.3	225.7	226.7	228.6	226.7	228.6	227.6
150°	206.3	206.3	205.8	204.8	205.3	206.3	207.3	208.7	207.3	208.7	208.2
152.5°	189.8	189.8	189.3	188.8	188.3	189.8	190.3	191.7	190.3	191.7	190.8
155°	175.2	174.7	174.7	173.8	173.8	174.7	175.2	176.2	174.7	176.2	175.7
157.5°	162.1	162.1	161.6	161.1	161.1	161.6	162.1	162.6	161.6	163.1	162.1
160°	151.0	151.0	150.5	150.0	150.0	150.5	150.5	151.0	150.0	151.0	150.5
162.5°	141.2	141.2	140.8	140.8	140.3	140.8	141.2	141.2	140.8	141.2	140.8
165°	133.5	133.5	133.0	132.5	132.5	133.0	133.0	133.5	132.5	133.0	133.0
167.5°	126.2	126.2	126.2	125.7	125.2	125.7	125.7	125.7	125.2	125.7	125.7
170°	120.9	120.9	120.9	120.4	119.9	120.4	120.4	120.4	119.9	120.4	120.4
172.5°	116.5	116.5	116.5	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0
175°	113.6	113.6	113.6	113.6	113.1	113.6	113.6	113.6	113.6	113.6	113.1
177.5°	112.1	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6
180°	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2

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

REPORT NUMBER: SP1-2406-133-3

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

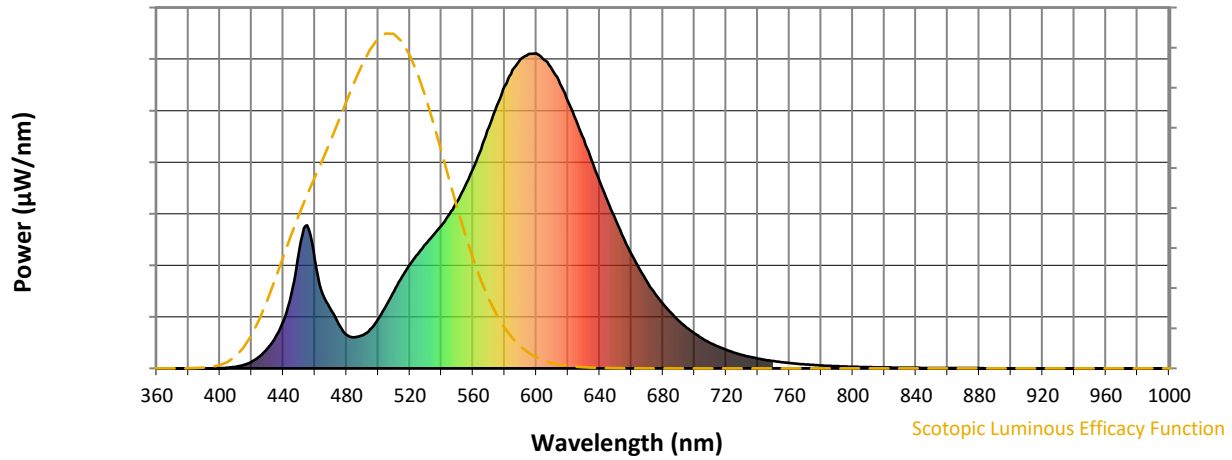


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2406-133-3

Scotopic Flux vs. Wavelength



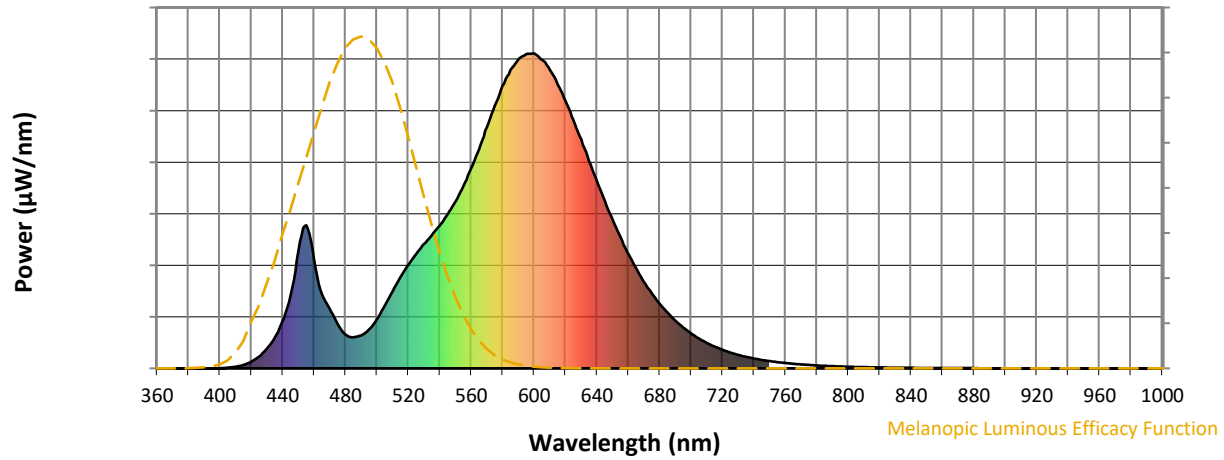
Scotopic Lumens: NR

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

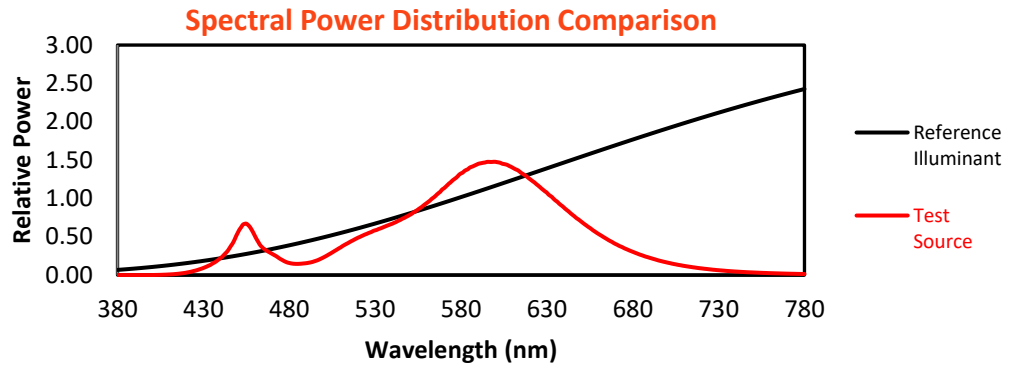
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156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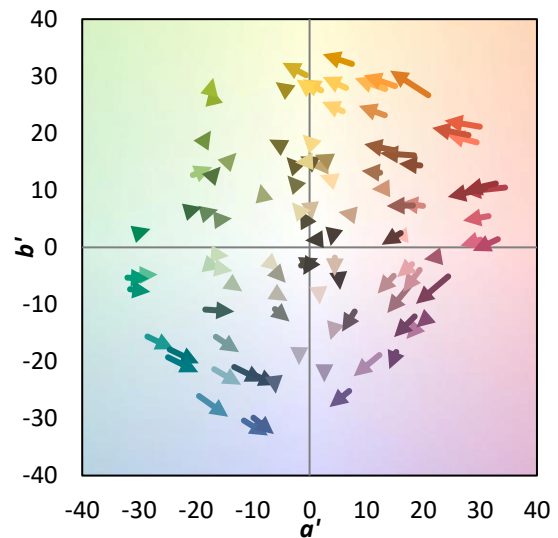
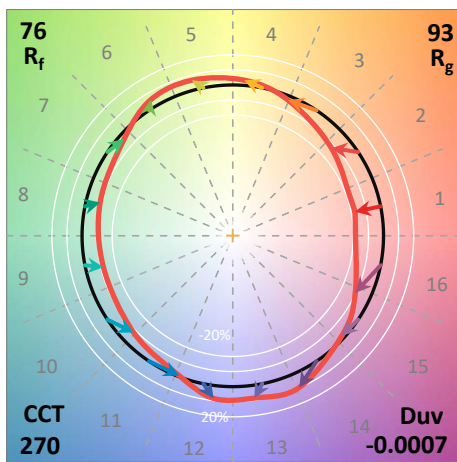
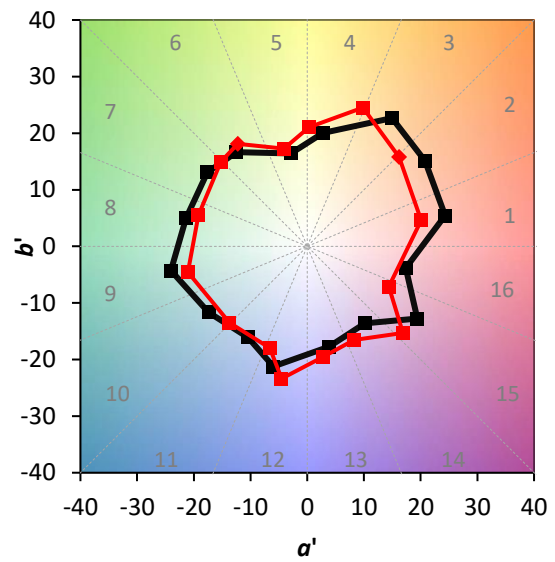
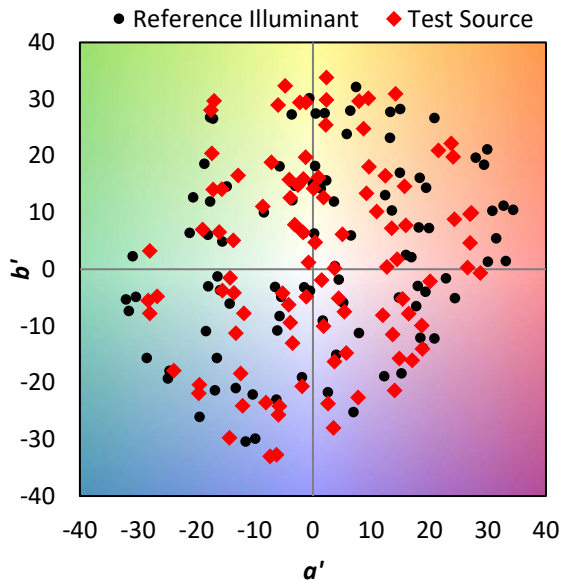
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Summary

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



Color Vector Graphics



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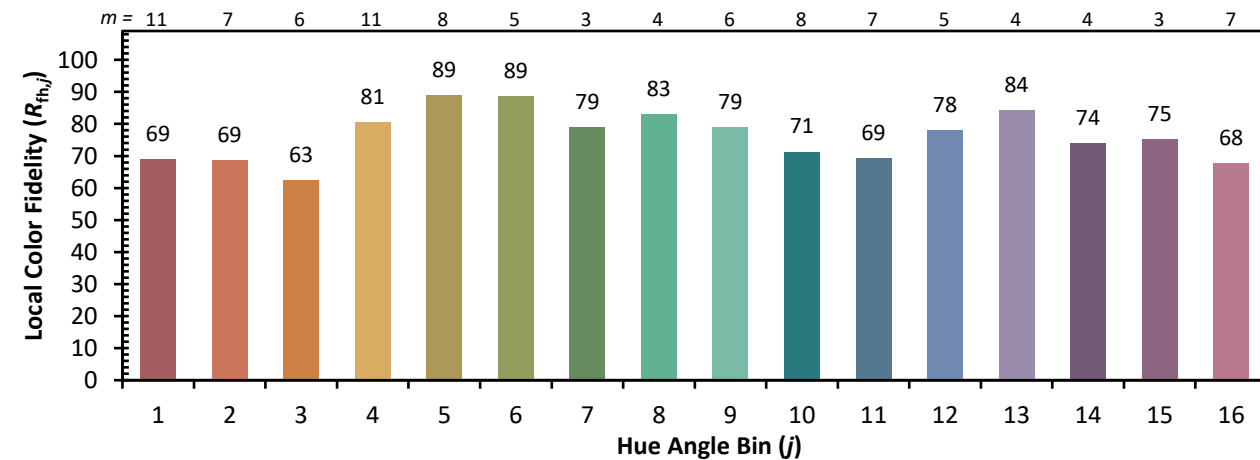
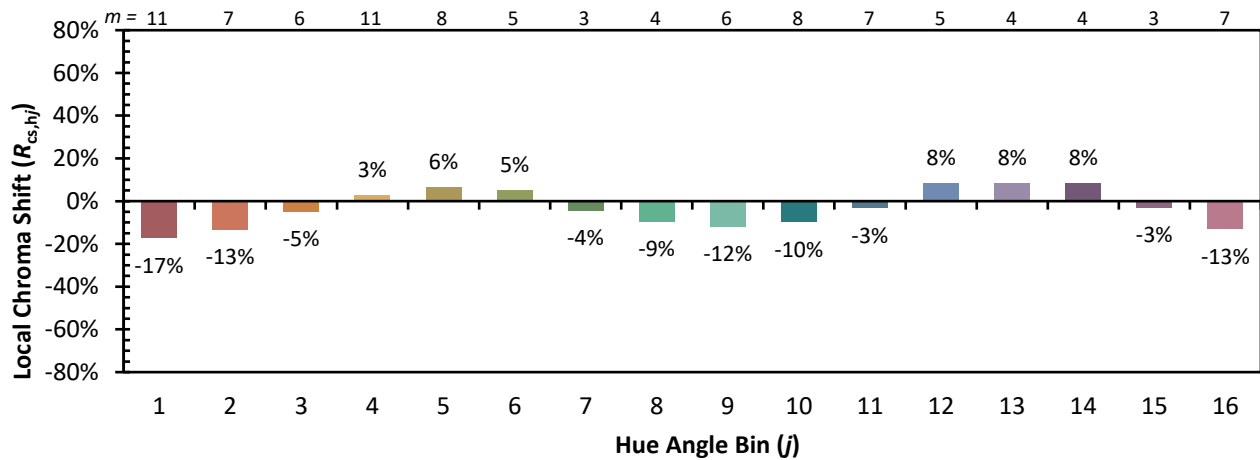
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Individual Sample Fidelity Index ($R_{f,i}$)

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	



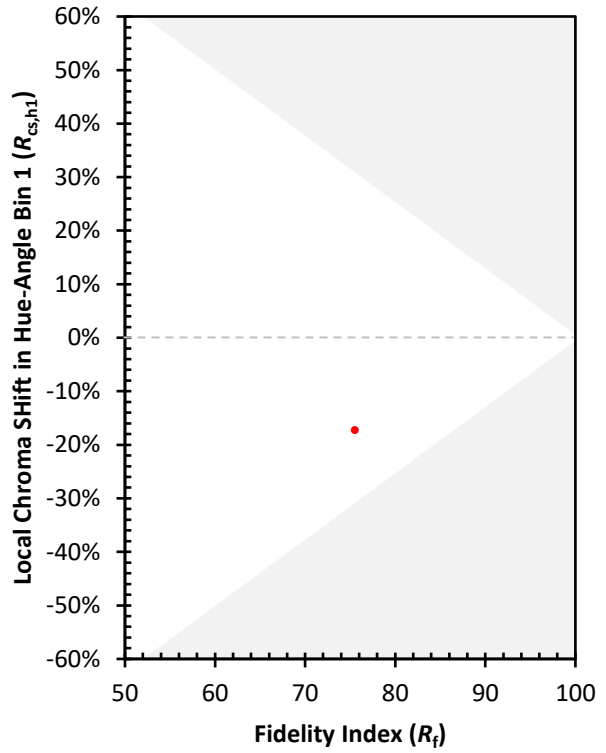
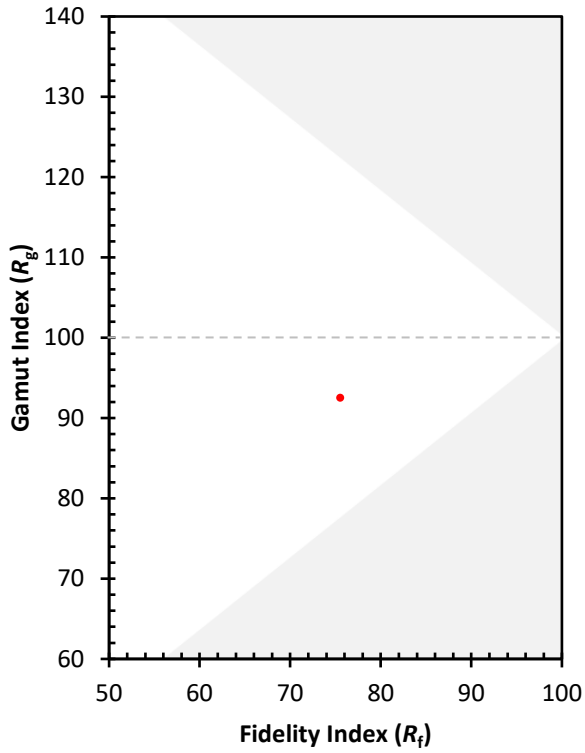
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)