

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: P856160

Luminaire Tested: **FFX-CLB-50-727-U-FR-T5-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856160
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-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

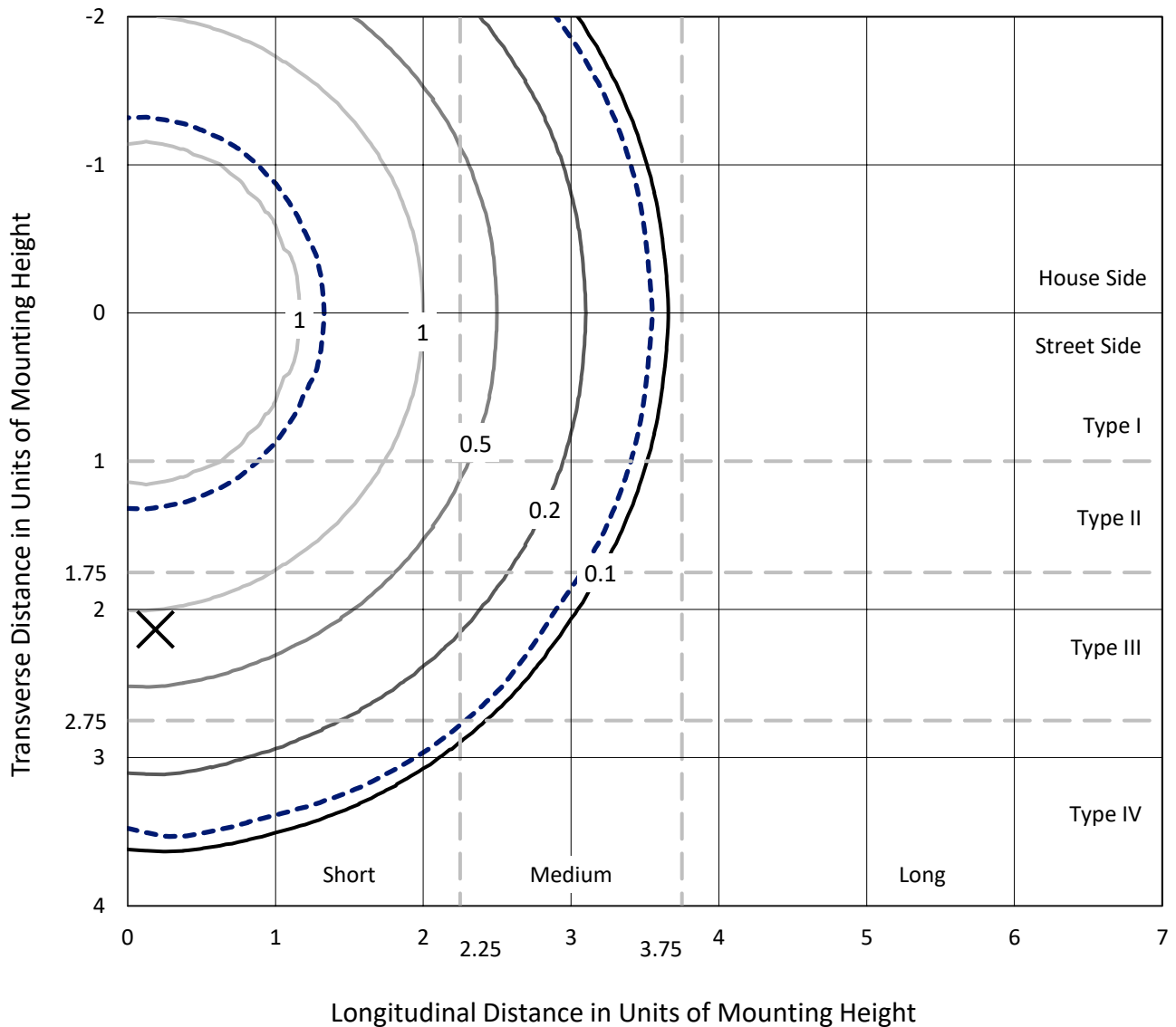
Lumens per Lamp: N/A
Luminaire Lumens: 7449.7 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G3

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

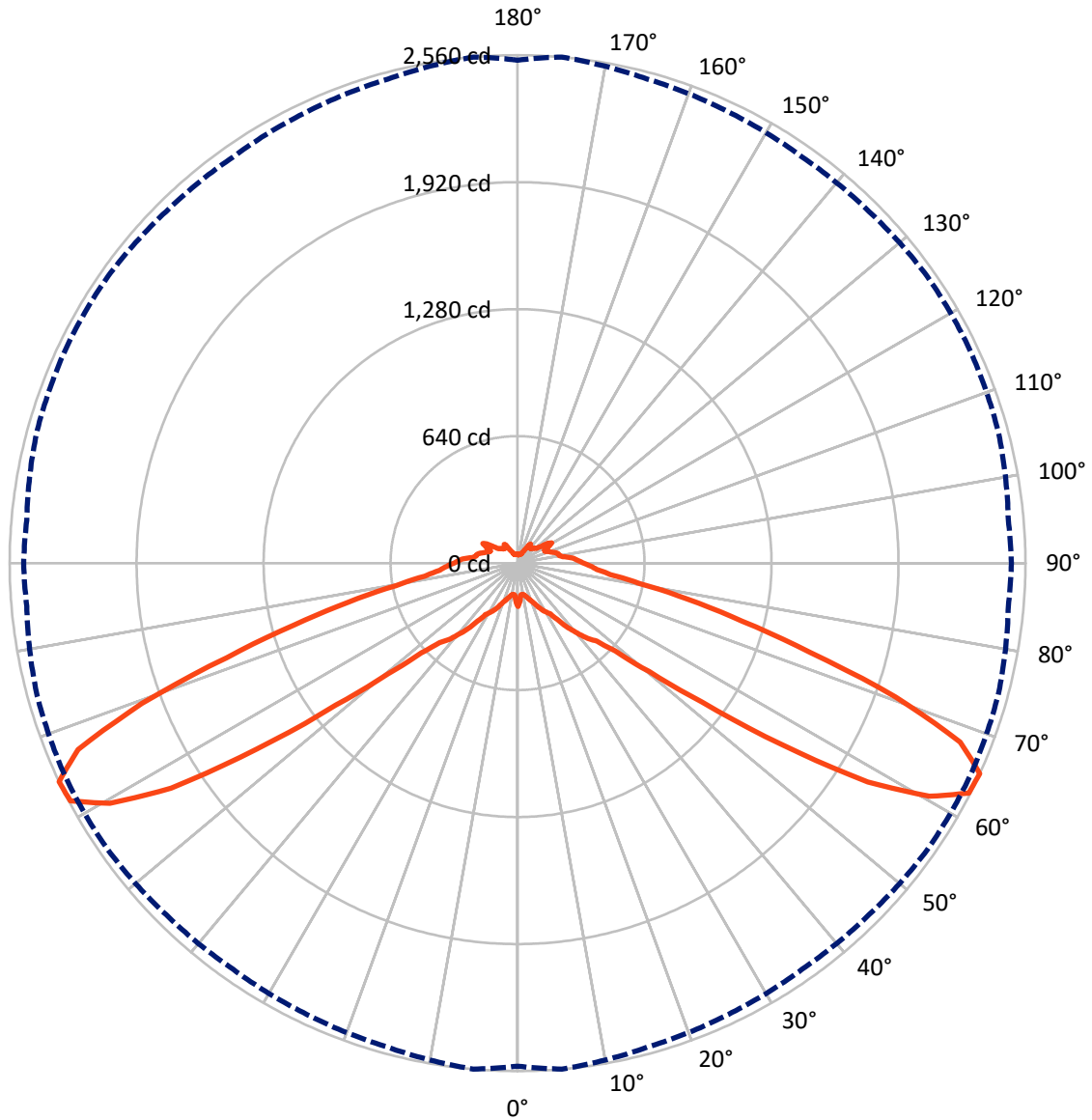
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 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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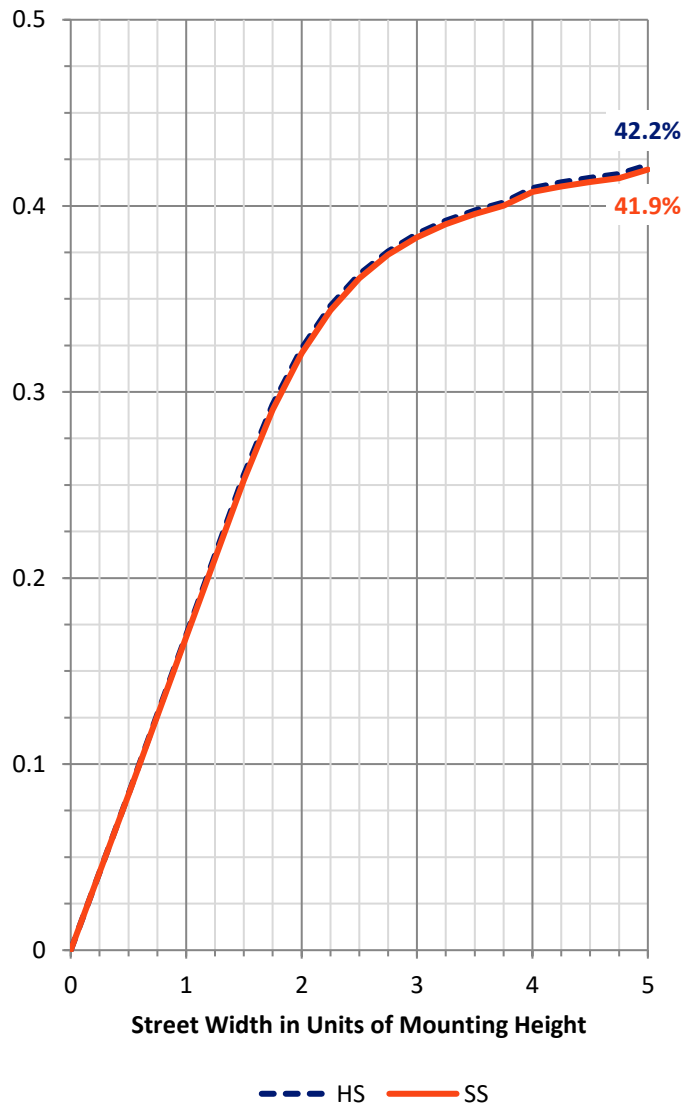
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3254.1	470.7	3724.8
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	3254.1	470.7	3724.8
	% Fixture	43.7	6.3	50.0
Total	Lumens	6508.3	941.4	7449.7
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	0.2
10°-20°	52.3	0.7
20°-30°	113.4	1.5
30°-40°	229.7	3.1
40°-50°	463.1	6.2
50°-60°	1472.2	19.8
60°-70°	2374.1	31.9
70°-80°	1294.7	17.4
80°-90°	493.0	6.6
90°-100°	295.8	4.0
100°-110°	188.7	2.5
110°-120°	143.5	1.9
120°-130°	121.4	1.6
130°-140°	79.1	1.1
140°-150°	66.3	0.9
150°-160°	29.7	0.4
160°-170°	12.6	0.2
170°-180°	4.2	0.1
0°-90°	6508.3	87.4
0°-180°	7449.7	100.0



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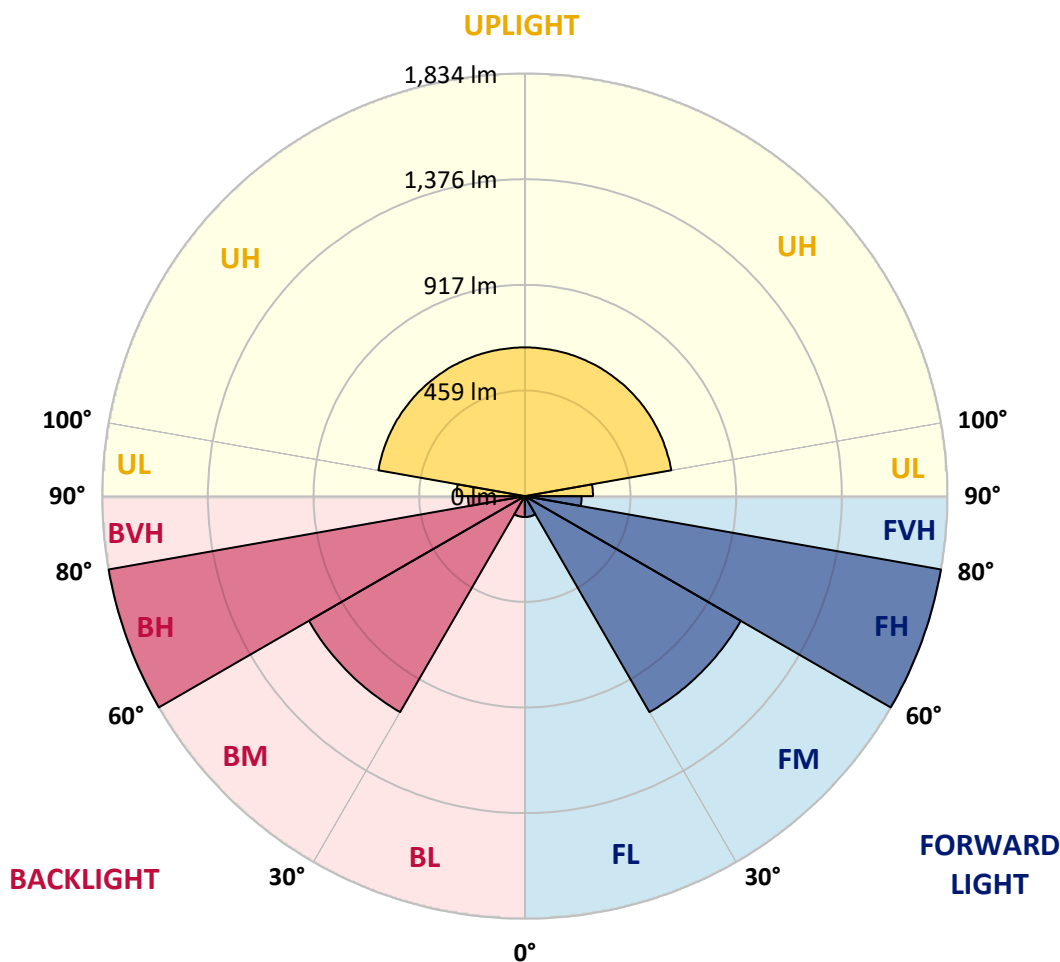
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T5-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	90.8	1.2			
FM (30°-60°)	1082.5	14.5			
FH (60°-80°)	1834.4	24.6			G2/5000
FVH (80°-90°)	246.5	3.3			G3/500
BL (0°-30°)	90.8	1.2	B0/110		
BM (30°-60°)	1082.5	14.5	B2/2500		
BH (60°-80°)	1834.4	24.6	B3/2500		G2/5000
BVH (80°-90°)	246.5	3.3			G3/500
UL (90°-100°)	295.8	4.0		U3/500	
UH (100°-180°)	645.6	8.7		U4/1000	

BUG Rating: B3-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6
2.5°	195.3	198.4	189.8	182.8	179.7	180.5	187.5	194.5	187.5	189.8	189.8
5°	161.8	162.6	162.6	161.0	163.4	158.7	153.3	153.3	158.7	164.9	164.9
7.5°	156.4	158.7	164.9	164.9	167.3	159.5	151.7	152.5	160.3	169.6	171.9
10°	161.0	161.0	159.5	161.0	166.5	165.7	157.2	153.3	158.7	168.0	171.2
12.5°	168.0	168.0	172.7	179.7	180.5	173.5	164.9	164.2	170.4	176.6	176.6
15°	178.2	178.9	181.3	180.5	182.8	180.5	178.2	179.7	183.6	183.6	183.6
17.5°	191.4	191.4	191.4	191.4	191.4	192.2	192.9	192.9	192.9	194.5	194.5
20°	206.2	206.2	205.4	204.6	204.6	205.4	206.2	206.2	206.2	207.7	207.7
22.5°	224.8	224.1	222.5	222.5	222.5	223.3	221.7	221.0	220.2	221.0	221.0
25°	246.6	246.6	245.1	242.7	242.7	242.0	239.6	238.8	238.1	239.6	238.8
27.5°	268.4	268.4	266.1	263.0	263.0	263.0	261.4	259.9	258.3	259.1	259.1
30°	288.6	287.1	286.3	284.0	283.2	284.0	282.4	282.4	279.3	278.5	280.1
32.5°	307.3	305.8	307.3	305.0	302.6	305.0	304.2	304.2	299.5	298.0	299.5
35°	358.7	354.8	357.9	352.4	349.3	350.1	351.7	354.8	350.1	347.8	348.5
37.5°	413.9	413.1	423.2	431.8	430.2	417.0	408.4	410.0	416.2	424.8	424.8
40°	465.2	463.7	466.0	462.9	462.9	461.4	460.6	464.5	452.0	448.9	446.6
42.5°	518.9	518.1	504.9	486.2	482.4	497.9	504.9	510.4	492.5	486.2	481.6
45°	571.8	560.9	558.6	552.4	546.2	556.3	555.5	559.4	550.8	550.0	546.2
47.5°	683.1	662.9	655.9	656.6	643.4	654.3	659.0	671.4	653.5	654.3	653.5
50°	883.8	858.1	869.8	862.0	848.0	861.2	860.5	883.0	853.5	864.4	859.7
52.5°	1197.3	1162.3	1169.3	1164.7	1150.7	1177.9	1184.1	1217.6	1160.8	1174.8	1170.9
55°	1650.9	1612.8	1628.4	1572.3	1557.6	1611.2	1631.5	1670.4	1594.9	1602.7	1598.8
57.5°	2083.5	2081.1	2107.6	2067.9	2054.7	2092.8	2074.1	2108.4	2067.9	2096.7	2087.4
60°	2378.3	2384.6	2411.0	2422.7	2399.3	2419.6	2374.5	2400.1	2387.7	2429.7	2425.8
62.5°	2531.6	2551.8	2536.3	2537.1	2511.4	2526.9	2518.4	2533.2	2530.1	2533.9	2530.1
65°	2534.7	2559.6	2525.4	2509.8	2498.9	2505.2	2519.9	2519.9	2510.6	2482.6	2488.8
67.5°	2369.0	2406.3	2368.2	2346.4	2352.7	2350.3	2360.4	2347.2	2341.8	2300.5	2301.3
70°	1961.3	2021.2	1965.2	1945.0	1961.3	1971.4	1970.7	1959.8	1951.2	1899.9	1914.7
72.5°	1489.1	1542.0	1492.2	1484.4	1500.0	1515.5	1502.3	1515.5	1501.5	1478.2	1485.2
75°	1124.2	1169.3	1169.3	1198.9	1203.6	1195.0	1158.4	1173.2	1182.6	1183.3	1190.3
77.5°	827.0	874.5	899.4	947.6	945.3	930.5	886.1	903.3	921.2	933.6	942.2
80°	588.2	624.0	660.5	694.8	699.4	687.0	659.7	669.9	680.7	689.3	694.0
82.5°	455.9	472.2	465.2	461.4	467.6	485.5	491.7	497.9	482.4	472.2	476.1
85°	397.6	399.1	411.6	420.1	422.5	422.5	416.2	420.9	424.8	434.9	434.9
87.5°	362.5	364.1	395.2	403.8	406.9	403.0	395.2	398.3	401.4	407.7	407.7
90°	322.1	326.8	357.9	364.9	368.0	361.8	359.4	361.8	357.9	360.2	360.2
92.5°	299.5	299.5	314.3	311.2	310.4	311.2	312.0	314.3	310.4	308.9	308.9
95°	273.9	277.7	273.9	277.0	276.2	272.3	270.7	272.3	270.0	270.0	271.5
97.5°	229.5	230.3	223.3	225.6	225.6	222.5	218.6	220.2	217.8	219.4	220.2
100°	214.7	212.4	200.7	199.2	198.4	196.1	193.7	193.7	192.9	192.2	192.9
102.5°	210.1	210.1	194.5	191.4	189.8	185.9	182.8	182.8	182.8	182.8	183.6
105°	192.2	197.6	185.9	183.6	181.3	176.6	171.9	171.2	172.7	171.2	173.5
107.5°	174.3	178.9	172.7	172.7	170.4	165.7	162.6	161.8	162.6	161.0	162.6
110°	164.2	166.5	159.5	159.5	157.9	154.0	153.3	152.5	152.5	150.2	151.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	151.7	151.7	146.3	144.7	144.7	142.4	141.6	140.8	140.8	140.8	141.6
115°	150.9	150.2	141.6	136.1	135.4	134.6	135.4	134.6	134.6	133.8	133.8
117.5°	184.4	176.6	147.8	134.6	134.6	135.4	138.5	136.1	130.7	130.7	129.9
120°	199.2	200.7	170.4	156.4	153.3	149.4	148.6	147.0	141.6	140.8	143.9
122.5°	175.8	183.6	164.9	159.5	156.4	151.7	148.6	147.8	147.8	143.9	149.4
125°	136.9	143.9	134.6	133.8	133.0	133.8	132.3	132.3	133.8	131.5	132.3
127.5°	117.5	120.6	116.7	116.7	115.9	115.1	113.6	114.4	113.6	114.4	115.1
130°	112.8	115.1	111.3	109.7	109.7	110.5	110.5	110.5	108.1	106.6	107.4
132.5°	112.0	111.3	105.0	101.9	101.9	107.4	109.7	109.7	104.3	100.4	100.4
135°	101.1	101.9	101.1	97.2	98.0	99.6	101.9	102.7	97.2	94.9	95.7
137.5°	97.2	99.6	100.4	98.8	98.8	97.2	96.5	97.2	95.7	96.5	96.5
140°	97.2	98.0	100.4	101.9	100.4	98.8	98.8	98.8	99.6	101.9	103.5
142.5°	99.6	100.4	99.6	98.8	101.1	105.0	108.1	108.1	105.8	104.3	105.0
145°	114.4	116.7	116.7	114.4	115.9	114.4	114.4	112.8	112.8	112.8	113.6
147.5°	108.9	108.1	109.7	112.0	109.7	108.9	108.9	109.7	111.3	112.0	112.8
150°	85.6	83.2	84.8	89.5	88.7	88.7	88.7	89.5	90.2	90.2	91.0
152.5°	67.7	67.7	69.2	69.2	70.0	70.0	69.2	69.2	69.2	70.0	70.0
155°	60.7	59.9	61.5	63.8	62.2	62.2	62.2	62.2	62.2	62.2	63.0
157.5°	52.9	52.1	52.1	52.9	52.9	52.9	52.9	53.7	53.7	52.9	53.7
160°	48.2	48.2	47.5	47.5	47.5	48.2	49.0	49.0	48.2	47.5	47.5
162.5°	45.9	45.9	44.3	43.6	43.6	44.3	45.9	45.9	44.3	43.6	43.6
165°	45.9	45.1	42.8	41.2	41.2	42.8	45.1	45.1	42.8	41.2	41.2
167.5°	45.1	45.1	43.6	42.0	42.0	43.6	44.3	45.1	44.3	42.8	42.0
170°	43.6	43.6	44.3	44.3	43.6	43.6	43.6	43.6	44.3	44.3	44.3
172.5°	45.1	44.3	45.1	45.9	45.9	45.1	44.3	44.3	45.1	45.9	45.9
175°	45.9	45.9	45.1	45.1	45.1	44.3	44.3	44.3	45.1	45.9	45.1
177.5°	41.2	41.2	40.5	41.2	41.2	41.2	40.5	41.2	41.2	41.2	42.0
180°	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9

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

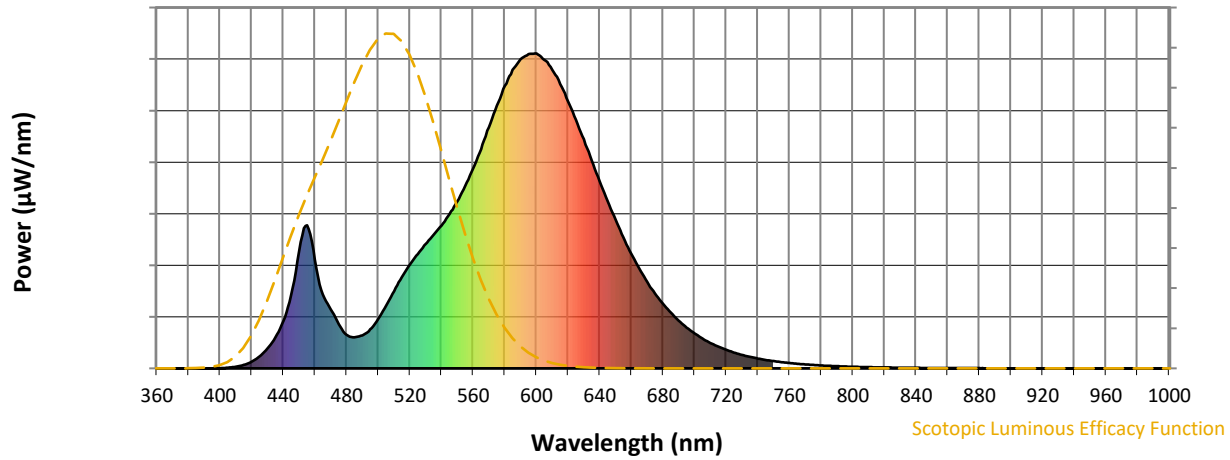


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength



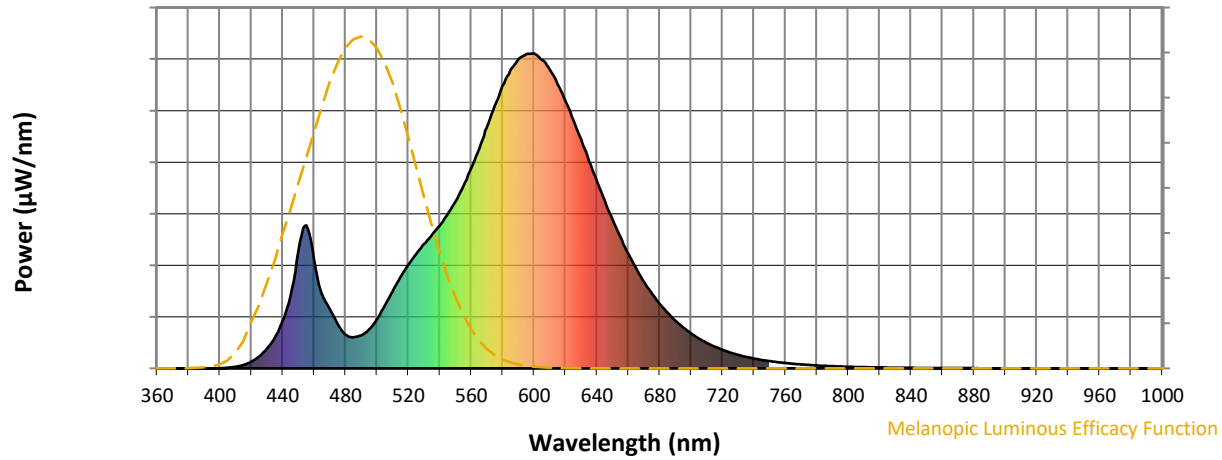
Scotopic Lumens: NR

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			

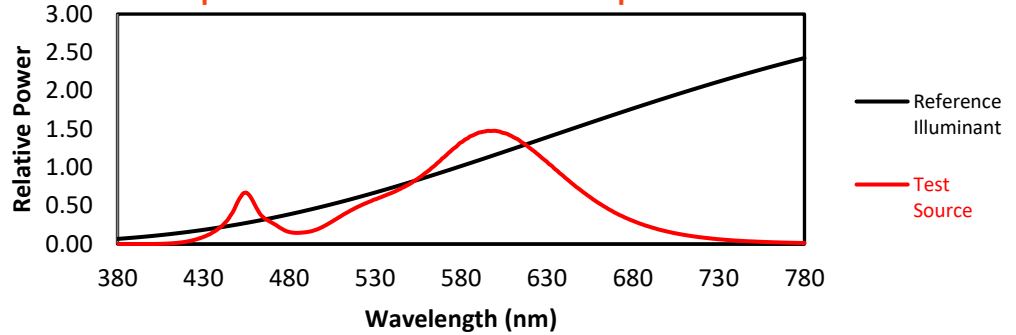
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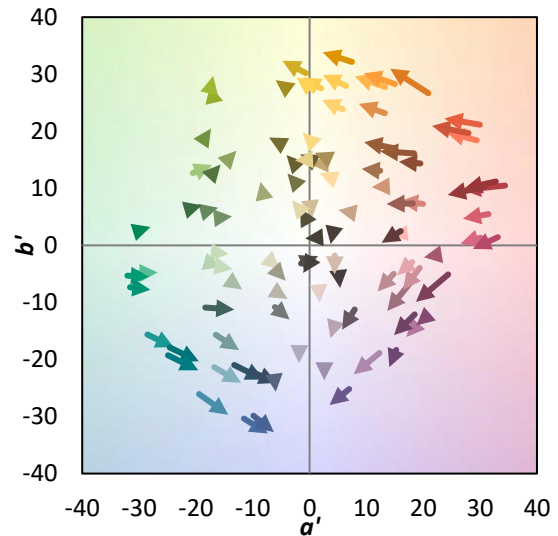
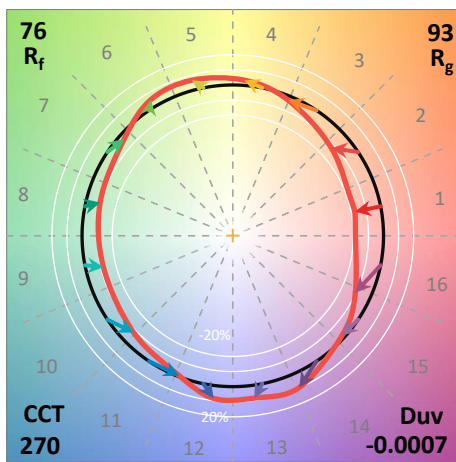
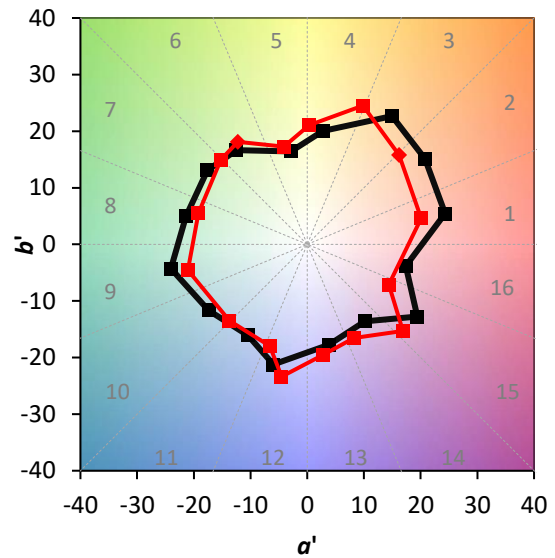
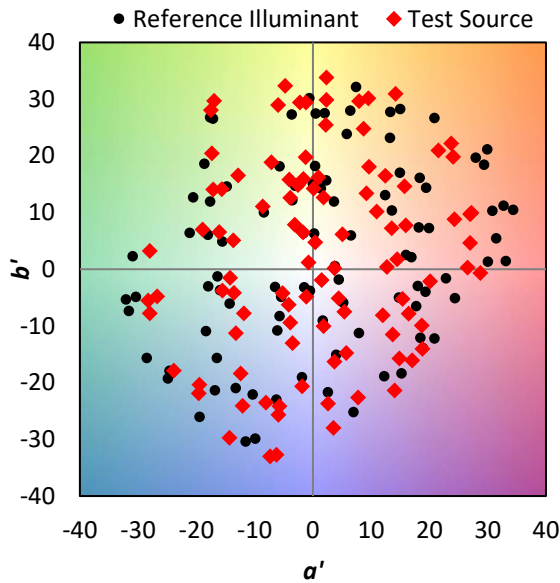
Summary

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

Spectral Power Distribution Comparison



Color Vector Graphics



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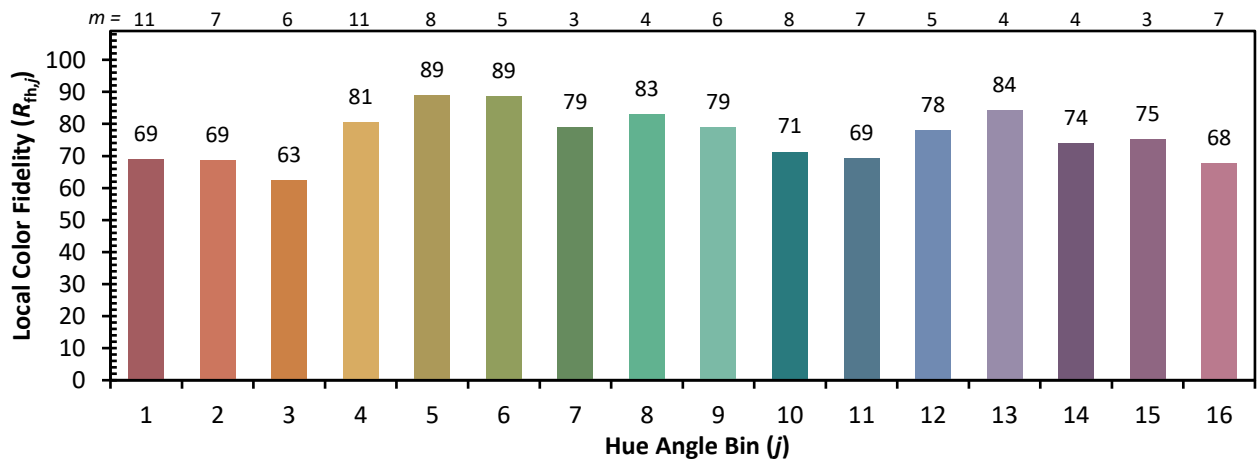
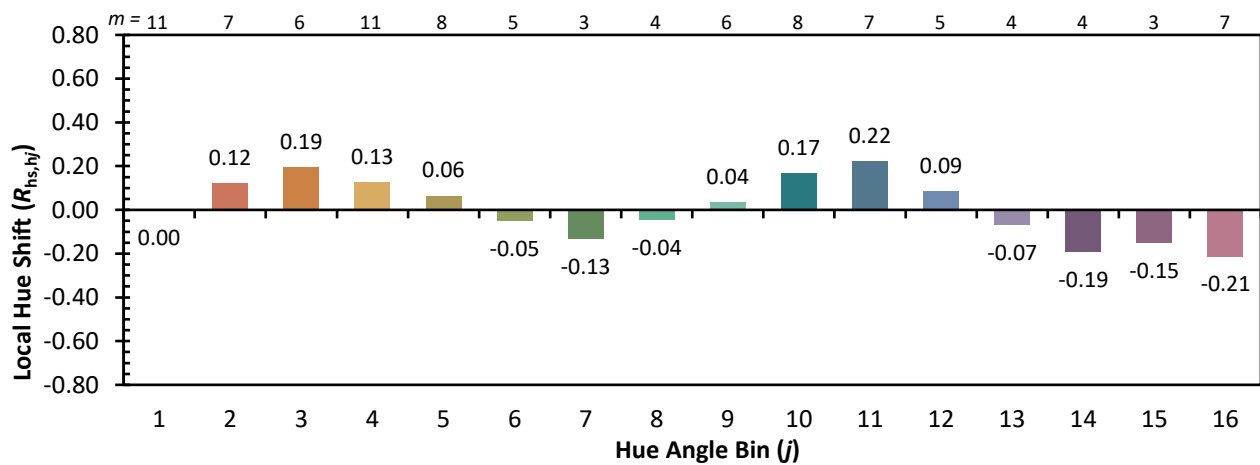
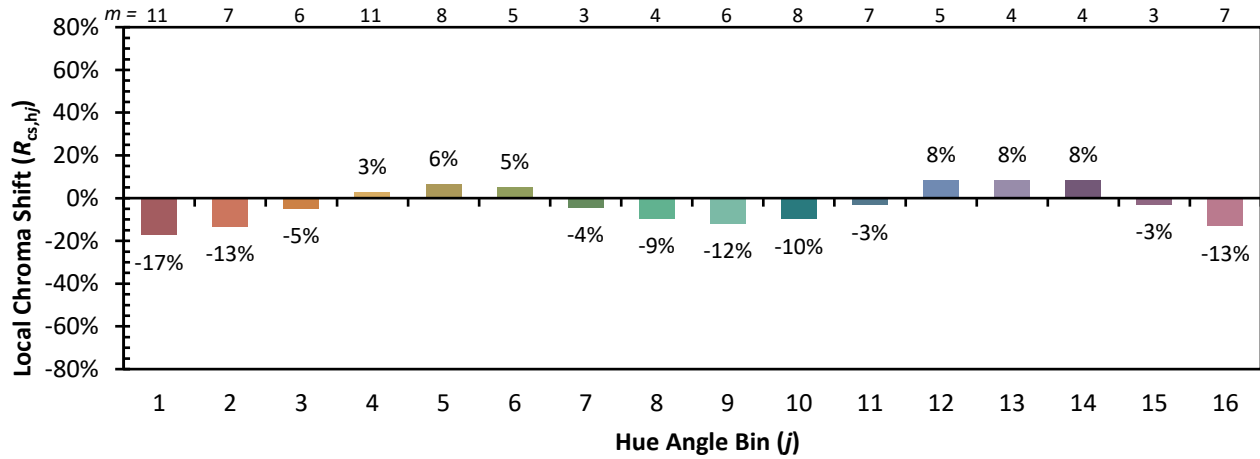
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Individual Sample Fidelity Index ($R_{f,i}$)

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	



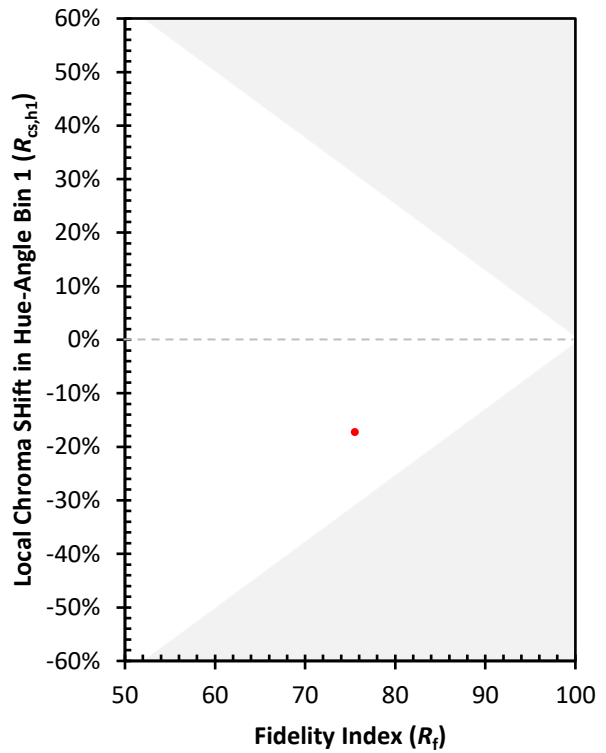
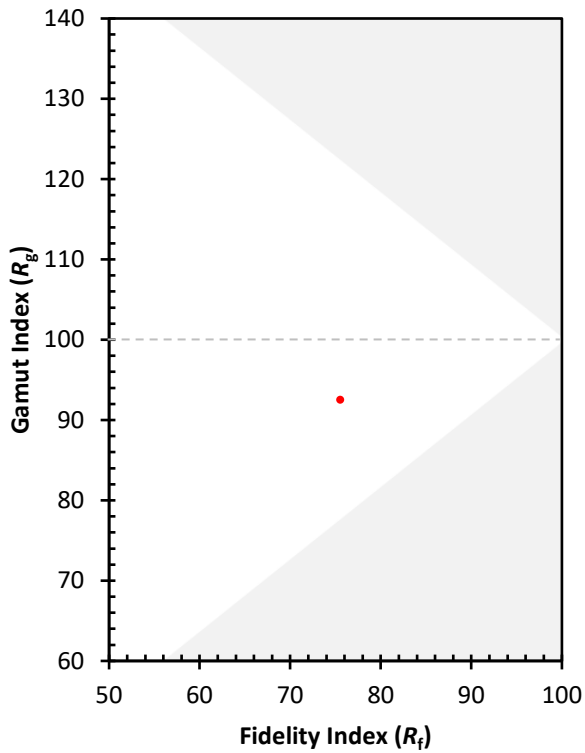
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)