

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: P856070

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856070
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
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

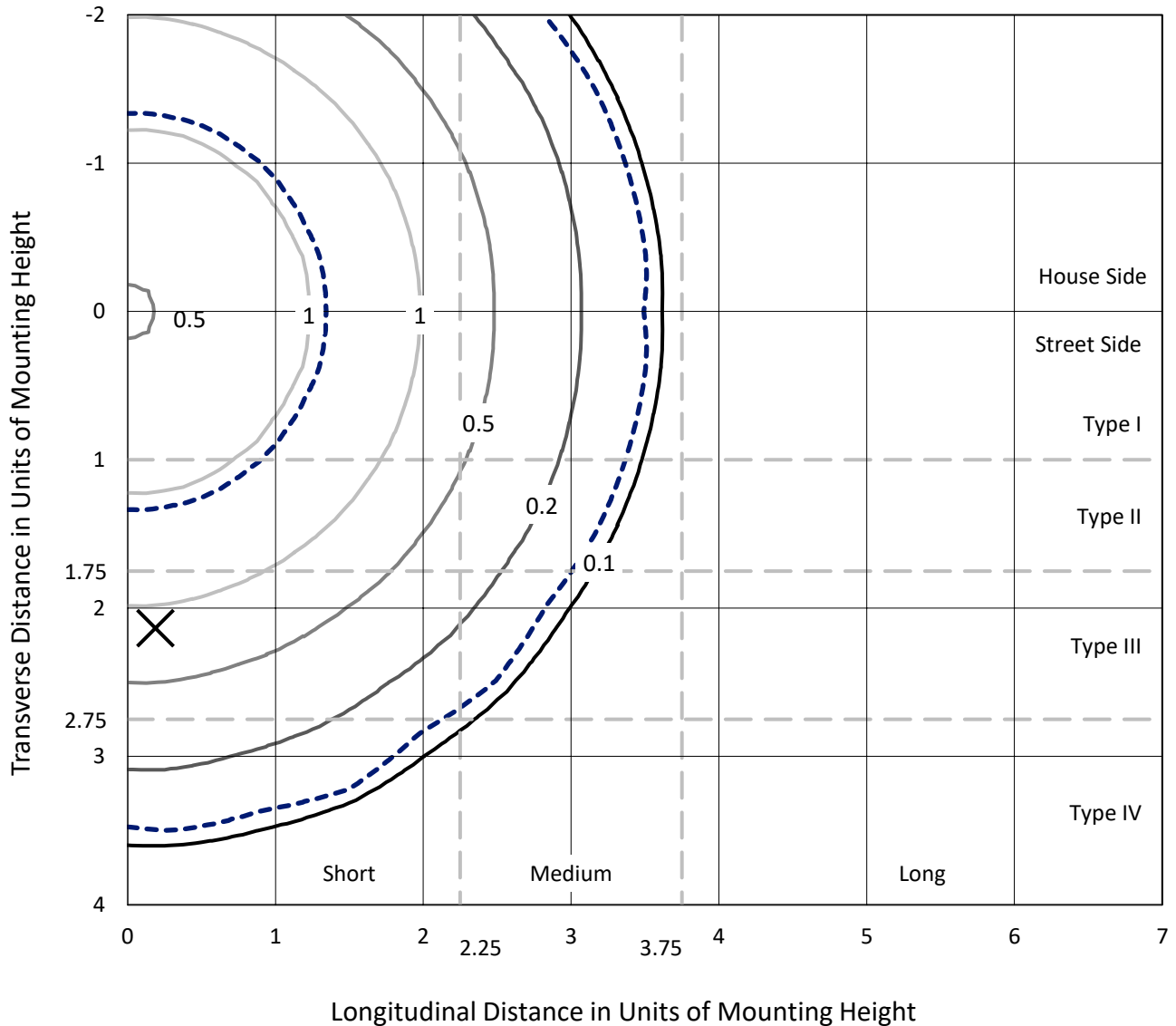
Lumens per Lamp: N/A
Luminaire Lumens: 7633.4 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G3

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

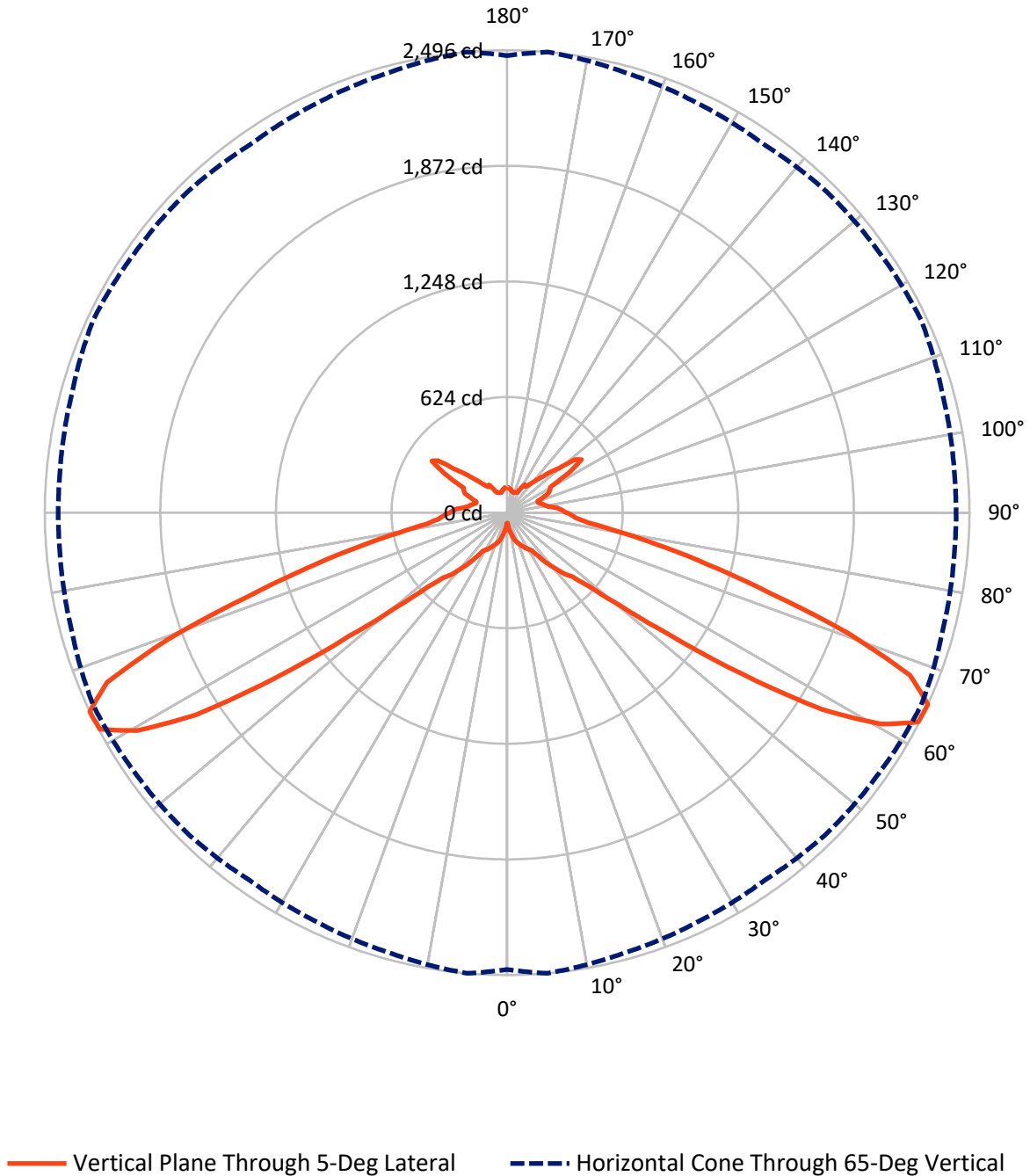
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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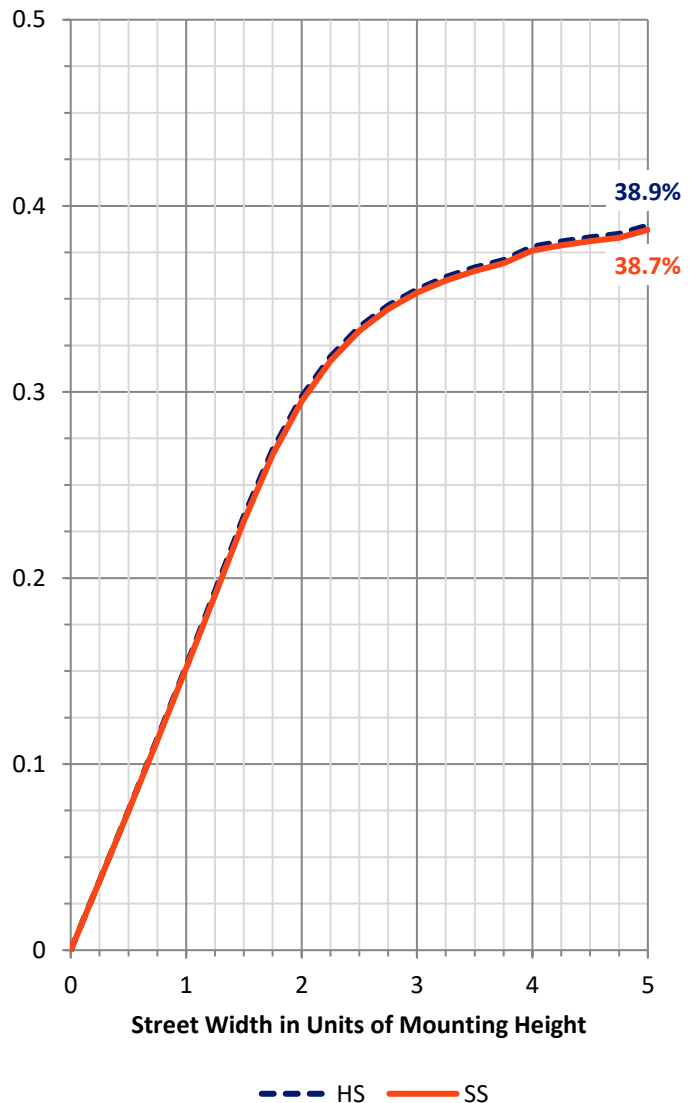
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3075.9	740.8	3816.7
	% Fixture	40.3	9.7	50.0
Street Side	Lumens	3075.9	740.8	3816.7
	% Fixture	40.3	9.7	50.0
Total	Lumens	6151.8	1481.6	7633.4
	% Fixture	80.6	19.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.1
10°-20°	43.6	0.6
20°-30°	94.7	1.2
30°-40°	188.0	2.5
40°-50°	407.6	5.3
50°-60°	1403.9	18.4
60°-70°	2305.7	30.2
70°-80°	1237.5	16.2
80°-90°	462.1	6.1
90°-100°	291.9	3.8
100°-110°	195.5	2.6
110°-120°	214.9	2.8
120°-130°	355.5	4.7
130°-140°	209.4	2.7
140°-150°	110.8	1.5
150°-160°	58.2	0.8
160°-170°	33.0	0.4
170°-180°	12.4	0.2
0°-90°	6151.8	80.6
0°-180°	7633.4	100.0



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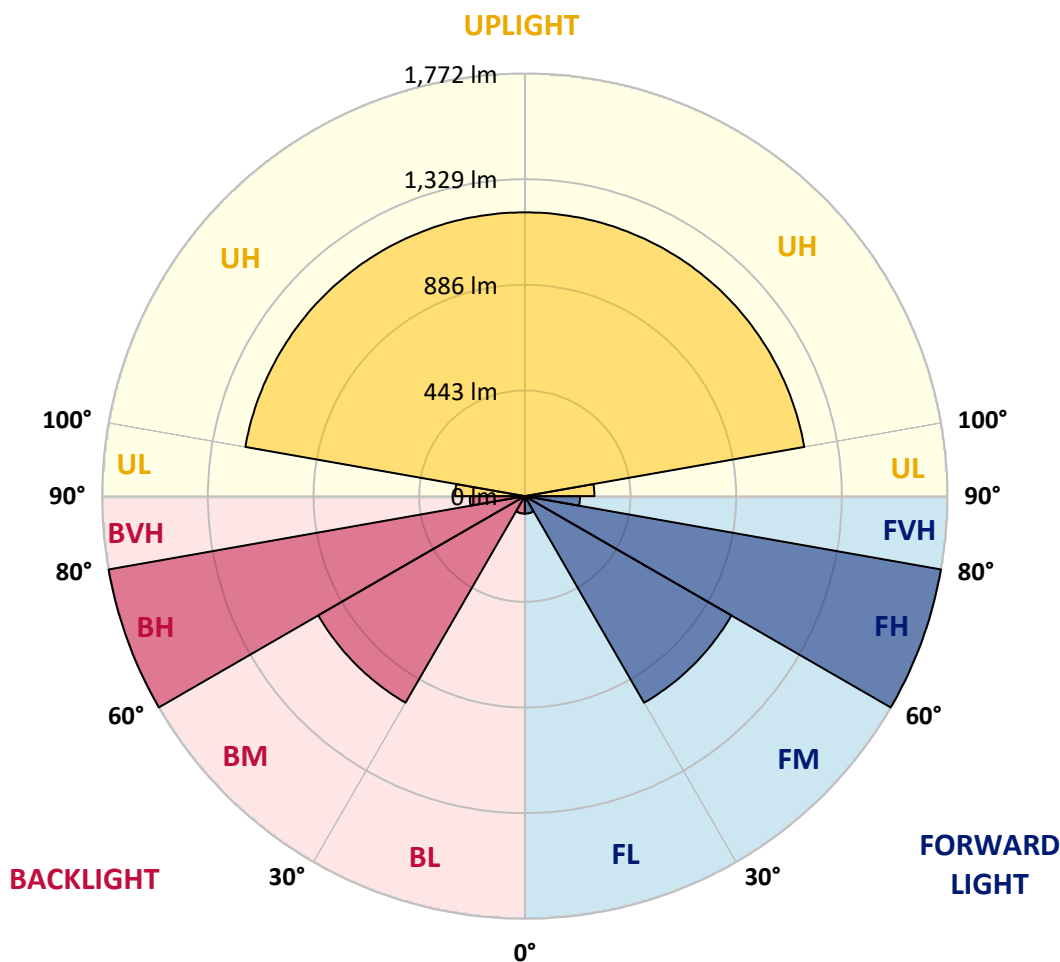
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	73.5	1.0			
FM (30°-60°)	999.7	13.1			
FH (60°-80°)	1771.6	23.2			G1/1800
FVH (80°-90°)	231.1	3.0			G3/500
BL (0°-30°)	73.5	1.0	B0/110		
BM (30°-60°)	999.7	13.1	B1/1000		
BH (60°-80°)	1771.6	23.2	B3/2500		G1/1800
BVH (80°-90°)	231.1	3.0			G3/500
UL (90°-100°)	291.9	3.8		U3/500	
UH (100°-180°)	1189.7	15.6		U5	

BUG Rating: B3-U5-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
2.5°	59.9	59.9	59.1	58.4	59.1	59.9	59.9	60.7	59.1	59.1	59.9
5°	80.1	80.1	80.1	79.4	77.8	77.8	77.0	79.4	80.1	80.9	80.9
7.5°	99.6	98.8	100.4	101.1	97.3	95.7	95.7	96.5	98.0	99.6	101.1
10°	112.8	112.0	112.8	115.9	115.1	112.8	112.8	112.8	115.1	119.0	119.8
12.5°	133.0	133.0	134.6	136.9	137.7	135.4	133.8	133.8	136.9	137.7	136.9
15°	154.8	154.8	154.1	153.3	154.1	153.3	153.3	154.1	156.4	155.6	155.6
17.5°	166.5	165.7	164.9	165.7	165.7	164.9	165.7	167.3	166.5	168.8	169.6
20°	178.9	178.9	177.4	177.4	177.4	178.2	178.9	178.2	178.9	179.7	180.5
22.5°	190.6	190.6	189.8	189.1	189.8	190.6	191.4	189.8	189.8	191.4	191.4
25°	203.8	203.8	203.8	201.5	202.3	203.1	202.3	201.5	202.3	203.1	203.8
27.5°	218.6	218.6	217.1	214.7	215.5	215.5	216.3	214.7	216.3	216.3	216.3
30°	231.1	229.5	228.7	227.2	227.2	228.7	230.3	228.0	228.7	228.7	229.5
32.5°	242.7	242.7	242.0	238.9	238.1	242.7	244.3	243.5	240.4	241.2	242.0
35°	286.3	286.3	280.9	275.4	280.1	279.3	285.5	285.5	285.5	287.1	290.2
37.5°	340.8	343.1	351.7	364.1	364.1	346.2	336.9	336.1	348.6	359.5	358.7
40°	389.0	391.4	389.0	390.6	389.0	389.8	390.6	389.0	382.0	379.7	375.0
42.5°	448.9	449.7	434.9	417.8	419.4	427.9	438.0	438.8	424.0	417.0	415.5
45°	490.9	492.5	487.1	484.7	484.7	487.8	487.1	487.1	481.6	480.8	479.3
47.5°	593.6	590.5	579.6	575.7	580.4	578.1	592.9	589.0	582.7	582.7	588.2
50°	787.4	784.3	785.0	781.1	793.6	775.7	793.6	788.9	779.6	784.3	788.2
52.5°	1104.0	1084.6	1086.9	1079.1	1100.9	1084.6	1114.1	1110.3	1079.9	1093.1	1093.9
55°	1560.0	1535.1	1533.5	1481.4	1521.8	1527.3	1564.6	1574.0	1514.8	1515.6	1519.5
57.5°	2012.0	2004.2	2029.1	1996.4	2025.2	2012.0	2011.2	2028.3	1994.1	1998.8	2011.2
60°	2311.5	2317.8	2345.8	2354.3	2364.5	2345.8	2307.7	2315.4	2313.1	2352.8	2355.9
62.5°	2471.8	2490.5	2470.3	2464.0	2455.5	2462.5	2457.8	2462.5	2448.5	2467.2	2467.9
65°	2466.4	2495.9	2459.4	2436.8	2422.8	2444.6	2450.8	2464.8	2435.3	2423.6	2423.6
67.5°	2310.0	2345.8	2288.2	2285.9	2251.6	2288.2	2278.1	2289.0	2265.6	2249.3	2233.7
70°	1921.7	1954.4	1885.2	1893.7	1834.6	1894.5	1879.0	1899.2	1880.5	1848.6	1829.9
72.5°	1447.9	1476.7	1425.4	1438.6	1399.7	1444.8	1420.7	1454.9	1443.3	1429.3	1413.7
75°	1095.5	1118.0	1121.1	1165.5	1118.8	1140.6	1097.0	1117.3	1136.7	1153.0	1135.9
77.5°	806.0	821.6	868.3	917.3	871.4	887.0	843.4	862.8	880.7	908.7	896.3
80°	569.5	587.4	630.2	666.8	633.3	647.3	619.3	630.2	644.2	664.4	651.2
82.5°	443.5	437.3	435.7	426.4	416.2	451.3	458.3	464.5	451.3	445.8	439.6
85°	371.9	373.5	382.8	394.5	394.5	395.2	388.2	391.4	396.8	406.9	407.7
87.5°	341.6	346.2	372.7	382.0	378.1	379.7	373.5	375.0	378.9	384.3	382.8
90°	301.1	312.8	337.7	347.0	340.8	343.9	340.8	343.1	340.0	341.6	338.4
92.5°	294.1	293.3	301.1	300.3	296.4	305.8	305.8	307.3	303.4	301.1	299.5
95°	272.3	270.8	270.0	272.3	263.8	270.8	269.2	272.3	270.8	270.8	267.6
97.5°	228.0	228.0	226.4	228.7	223.3	226.4	222.5	224.9	224.1	224.9	222.5
100°	210.1	210.1	208.5	208.5	206.2	207.0	205.4	205.4	204.6	203.8	203.8
102.5°	197.6	199.2	196.8	197.6	194.5	194.5	193.0	193.7	193.0	193.0	192.2
105°	186.0	186.7	185.2	185.2	182.8	182.1	180.5	181.3	182.1	180.5	180.5
107.5°	174.3	175.1	174.3	174.3	171.9	170.4	168.1	168.1	168.8	169.6	169.6
110°	178.9	176.6	174.3	172.7	175.8	171.2	169.6	168.8	169.6	171.9	172.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	214.0	212.4	212.4	205.4	213.2	208.5	205.4	200.0	202.3	203.8	203.8
115°	248.2	249.0	239.6	236.5	231.9	231.1	233.4	227.2	226.4	227.2	225.6
117.5°	278.5	262.2	227.2	217.9	215.5	214.0	212.4	210.8	209.3	218.6	208.5
120°	298.0	270.0	244.3	238.9	252.1	233.4	221.0	218.6	223.3	239.6	237.3
122.5°	422.5	398.4	379.7	347.0	379.7	361.0	365.7	357.1	352.5	343.1	344.7
125°	494.1	493.3	484.7	478.5	486.3	479.3	471.5	468.4	463.7	466.0	462.2
127.5°	459.0	466.0	455.2	467.6	439.6	447.4	445.8	451.3	446.6	448.1	441.9
130°	363.3	368.8	358.7	352.5	340.0	354.0	354.8	363.3	354.0	341.6	340.0
132.5°	317.4	321.3	305.8	298.0	289.4	301.9	307.3	312.0	305.8	292.5	289.4
135°	270.0	271.5	260.6	262.2	256.8	256.8	256.0	258.3	261.4	259.1	257.5
137.5°	231.9	235.7	231.9	236.5	231.9	228.0	221.7	224.1	231.1	236.5	235.7
140°	200.7	204.6	205.4	210.1	200.7	202.3	198.4	200.0	203.8	209.3	211.6
142.5°	178.2	181.3	174.3	170.4	167.3	176.6	183.6	184.4	179.7	173.5	175.8
145°	173.5	170.4	173.5	170.4	173.5	171.9	172.7	171.9	171.9	171.9	171.9
147.5°	175.8	178.9	178.9	178.9	174.3	175.1	175.8	176.6	176.6	179.7	178.9
150°	146.3	150.2	149.4	153.3	146.3	147.8	148.6	150.2	150.9	151.7	152.5
152.5°	123.7	124.5	126.8	128.4	127.6	126.8	126.0	126.0	127.6	129.2	129.9
155°	120.6	120.6	122.9	125.3	122.9	122.9	122.2	122.2	122.9	125.3	125.3
157.5°	115.9	116.7	116.7	118.3	116.7	117.5	116.7	116.7	117.5	118.3	119.0
160°	113.6	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	115.1	115.1
162.5°	113.6	113.6	113.6	112.8	112.8	113.6	113.6	113.6	113.6	112.8	113.6
165°	115.9	115.1	114.4	113.6	114.4	115.9	116.7	116.7	115.9	114.4	115.1
167.5°	120.6	120.6	119.8	119.0	119.8	120.6	121.4	121.4	120.6	119.8	119.8
170°	125.3	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5
172.5°	128.4	128.4	129.2	128.4	129.2	129.2	128.4	128.4	128.4	128.4	129.2
175°	133.0	133.0	133.0	133.0	133.8	133.8	133.8	133.8	133.8	133.8	133.8
177.5°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9

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

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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

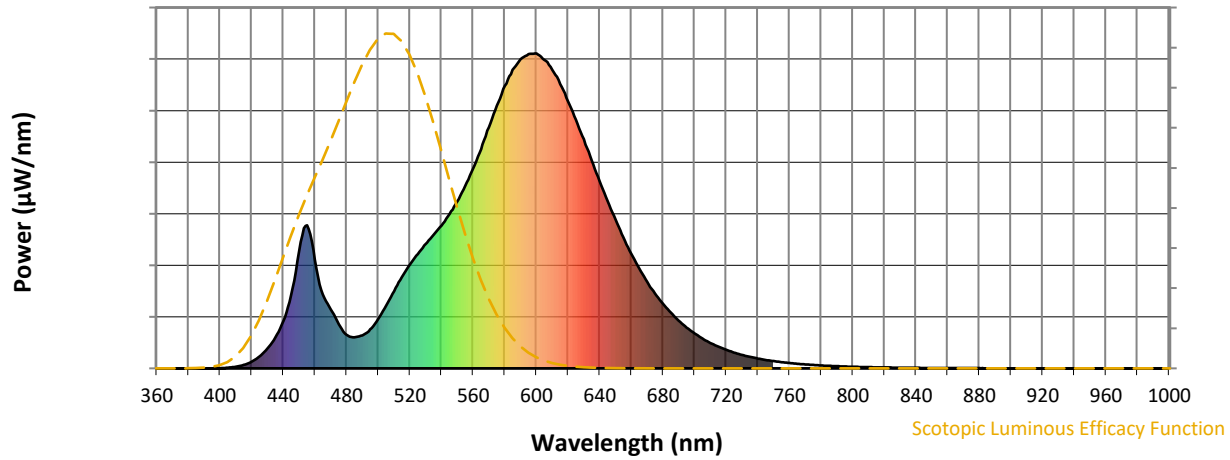


Photopic Lumens: NR

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



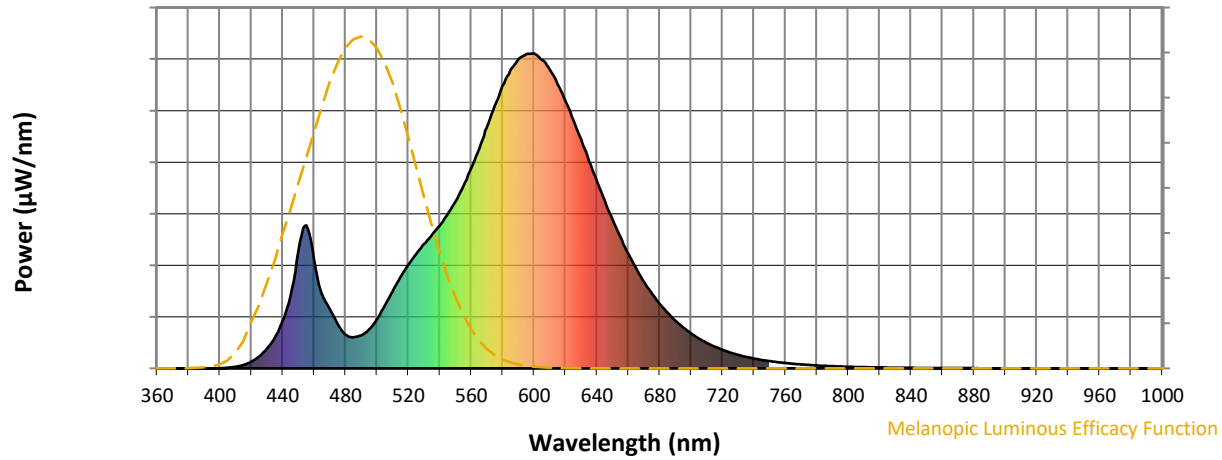
Scotopic Lumens: NR

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

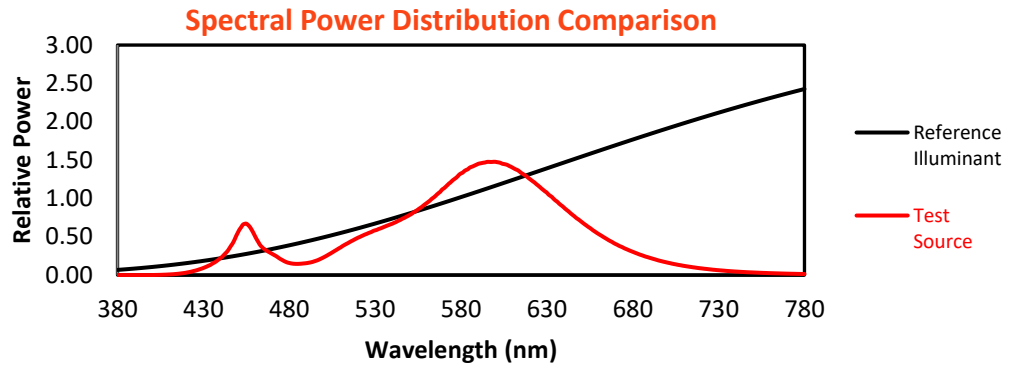
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156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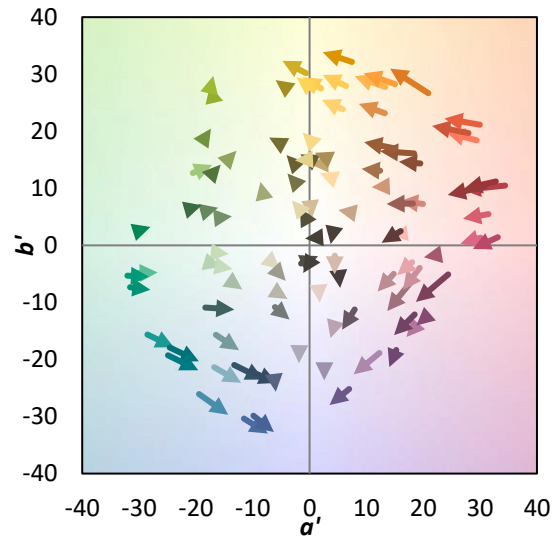
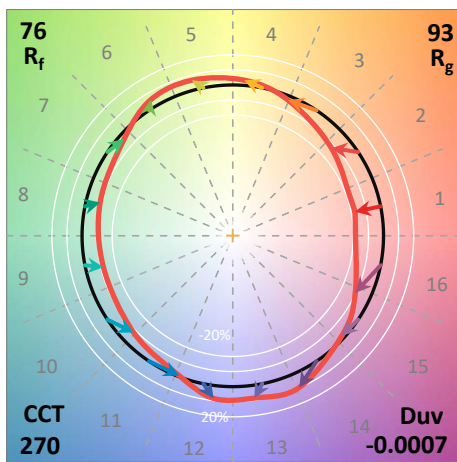
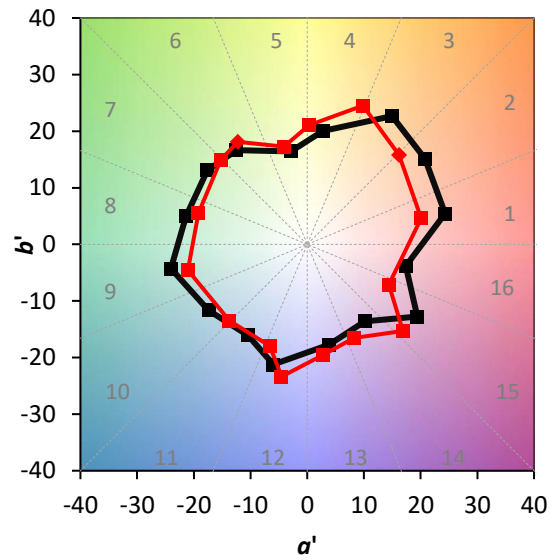
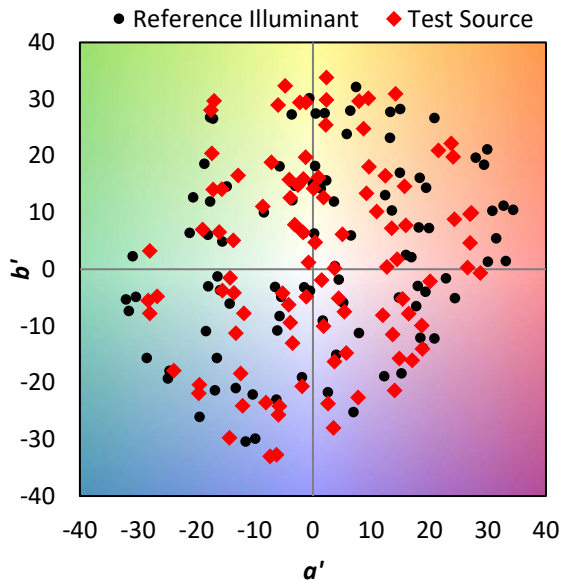
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Summary

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



Color Vector Graphics



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

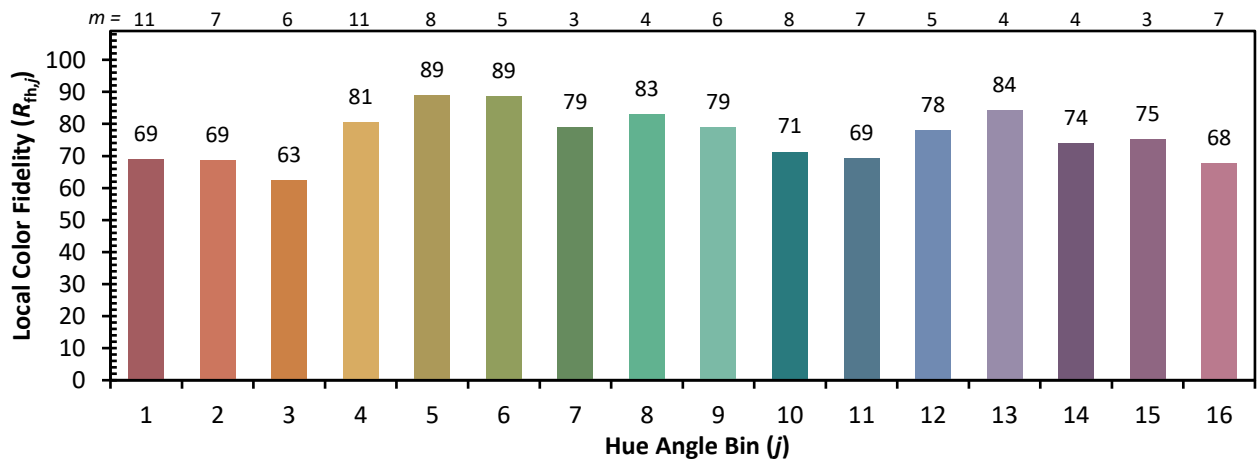
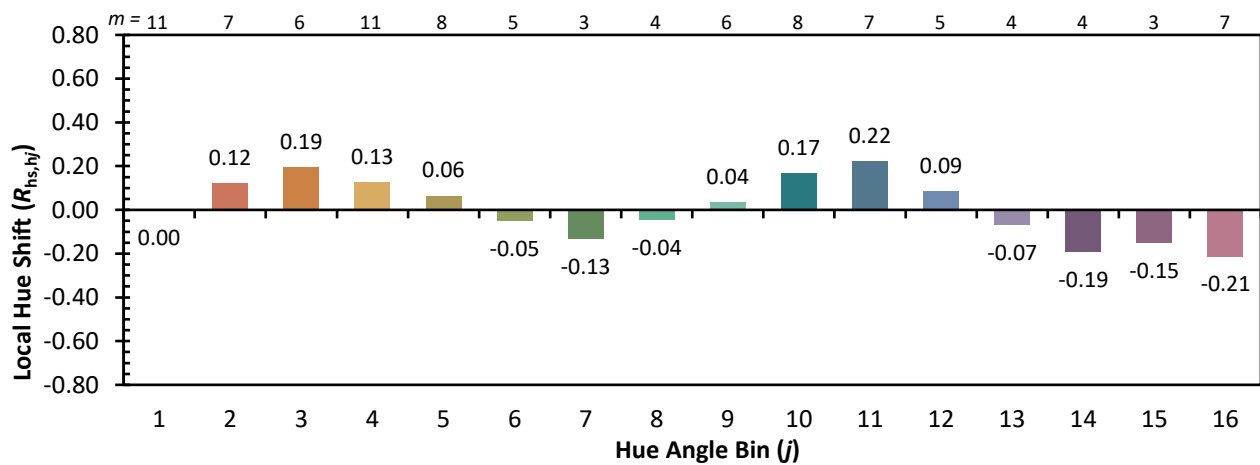
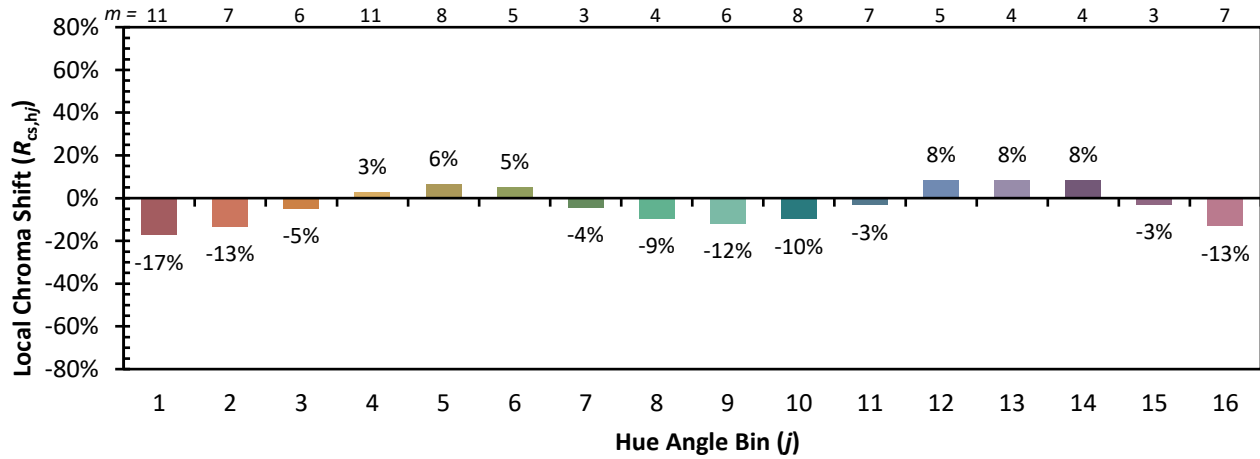
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CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 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	



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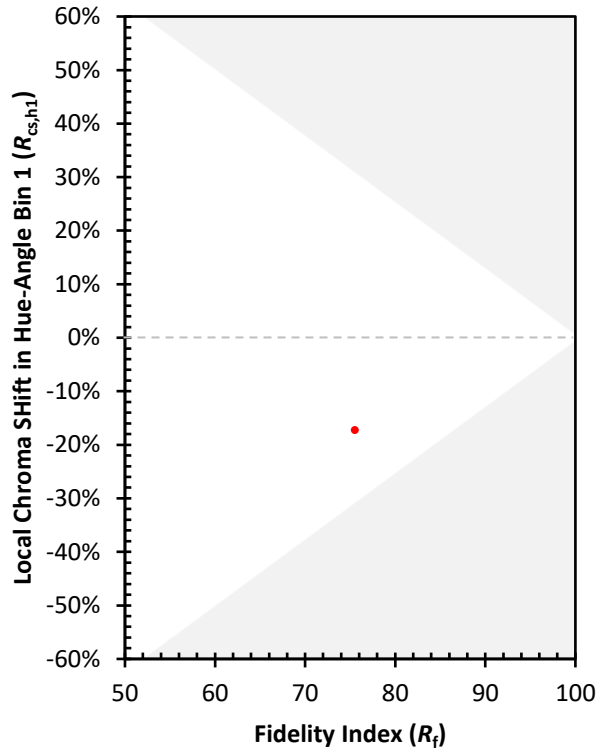
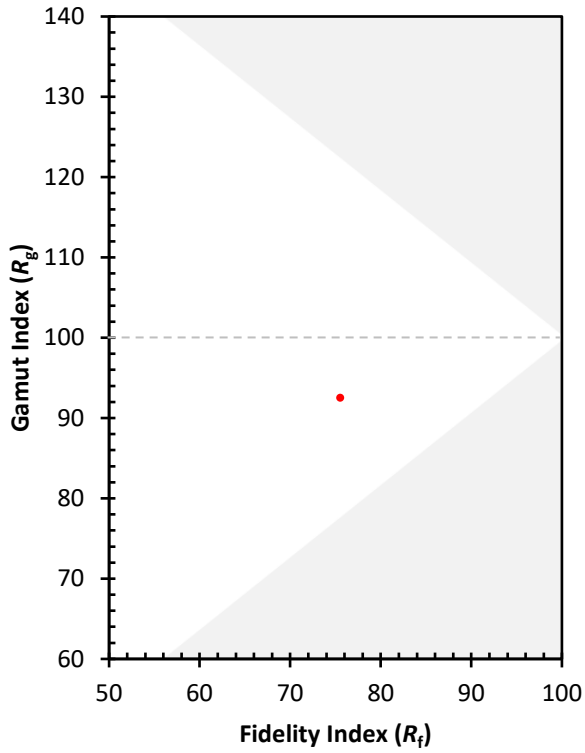
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)