

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: P856295

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

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856295  
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-FG  
Description: FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE  
Light Source: (6) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

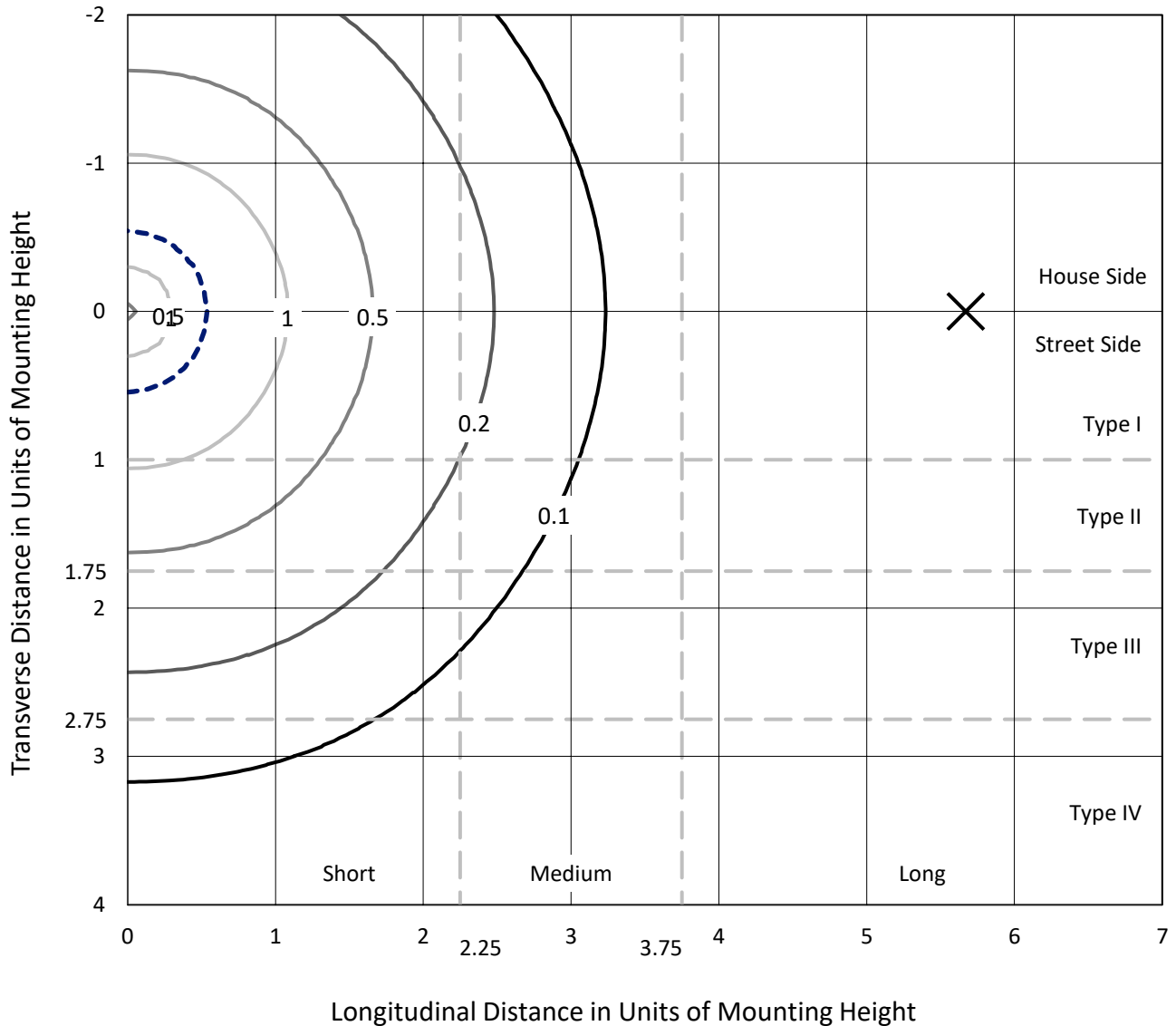
Lumens per Lamp: N/A  
Luminaire Lumens: 7887.4 lumens  
Efficiency: N/A  
Efficacy: 156.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1.5')  
IES Classification: Type V - Short  
BUG Rating: B2 - U5 - G3

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

REPORT NUMBER: P856295  
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### Iso-Footcandle Lines of Horizontal Illumination

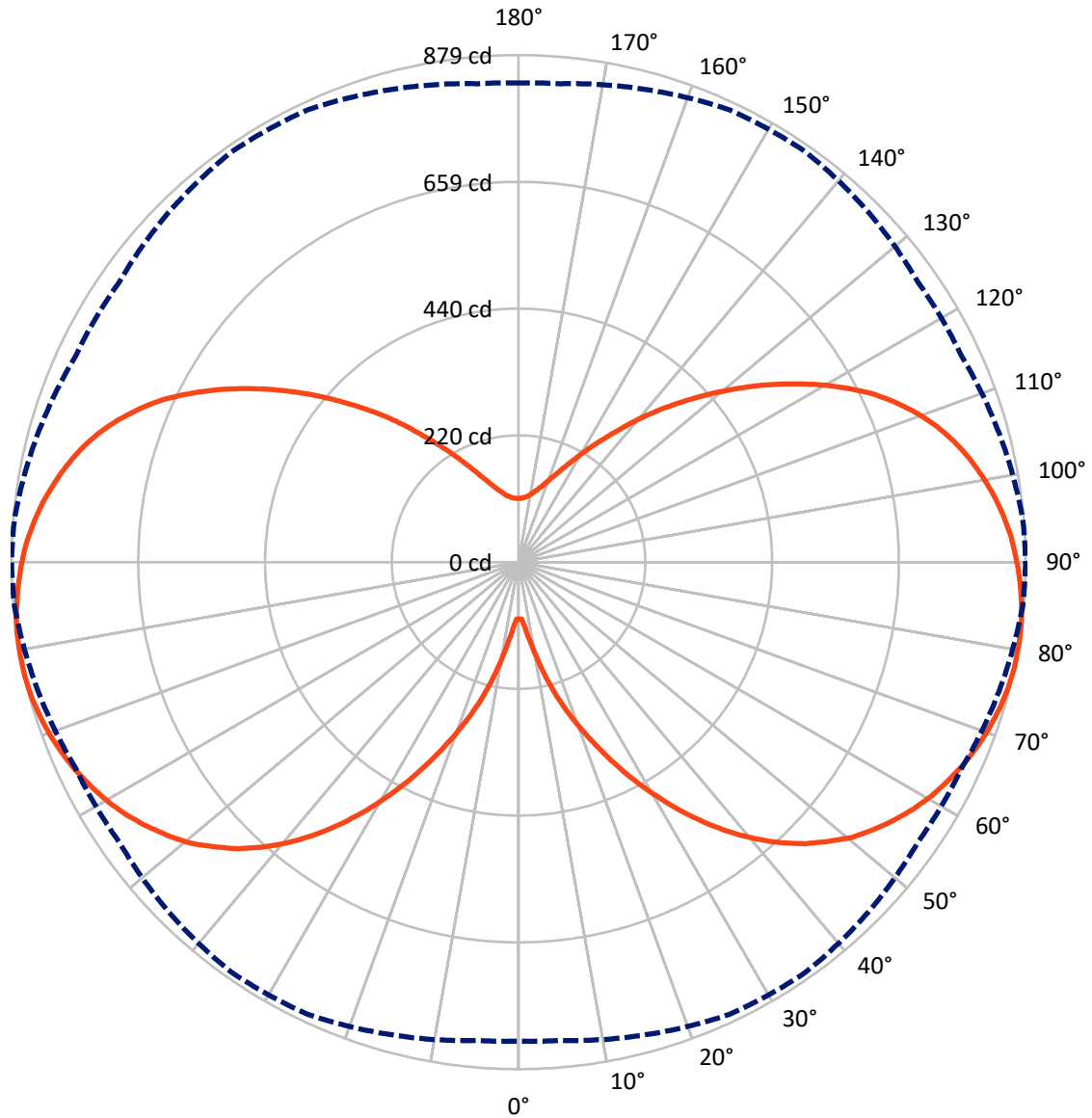
× Max cd  
 - - - 1/2 Max cd



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 90-Deg Lateral      - - - Horizontal Cone Through 80-Deg Vertical

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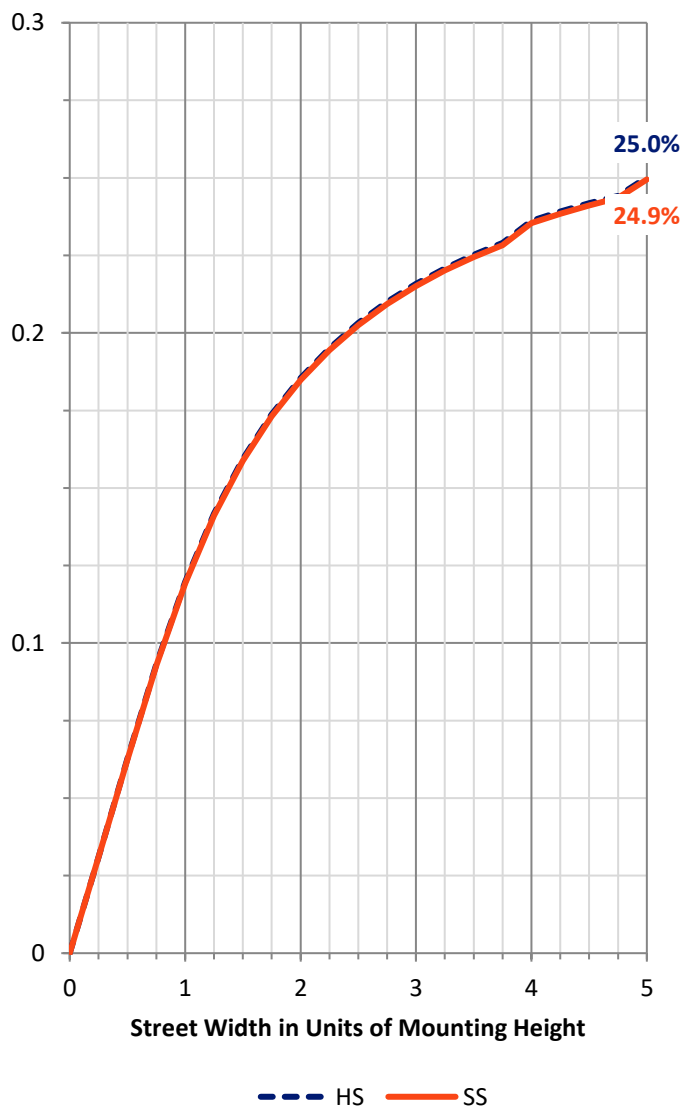
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2244.1	1699.7	3943.7
	% Fixture	28.5	21.5	50.0
<b>Street Side</b>	Lumens	2244.1	1699.7	3943.7
	% Fixture	28.5	21.5	50.0
<b>Total</b>	Lumens	4488.1	3399.3	7887.4
	% Fixture	56.9	43.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.5	0.2
10°-20°	68.8	0.9
20°-30°	181.0	2.3
30°-40°	346.0	4.4
40°-50°	531.8	6.7
50°-60°	696.7	8.8
60°-70°	822.3	10.4
70°-80°	902.1	11.4
80°-90°	926.9	11.8
90°-100°	893.0	11.3
100°-110°	800.7	10.2
110°-120°	650.6	8.2
120°-130°	464.9	5.9
130°-140°	294.0	3.7
140°-150°	164.7	2.1
150°-160°	82.9	1.1
160°-170°	37.7	0.5
170°-180°	10.9	0.1
0°-90°	4488.1	56.9
0°-180°	7887.4	100.0



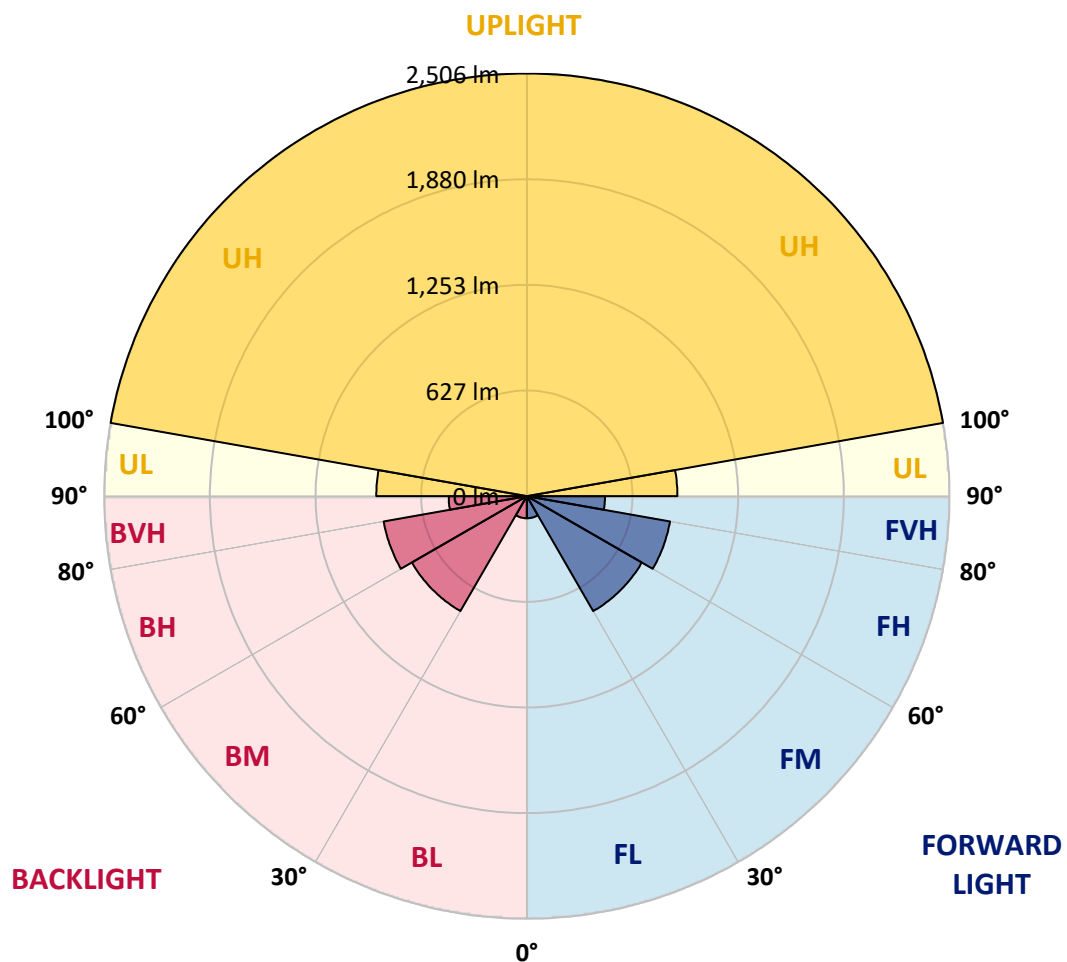
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.1	1.7			
FM (30°-60°)	787.3	10.0			
FH (60°-80°)	862.2	10.9			G1/1800
FVH (80°-90°)	463.4	5.9			G3/500
BL (0°-30°)	131.1	1.7	B1/500		
BM (30°-60°)	787.3	10.0	B1/1000		
BH (60°-80°)	862.2	10.9	B2/1000		G1/1800
BVH (80°-90°)	463.4	5.9			G3/500
UL (90°-100°)	893.0	11.3		U4/1000	
UH (100°-180°)	2506.4	31.8		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°	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
2.5°	103.9	103.9	103.4	102.4	101.9	101.4	100.5	99.0	98.5	98.5	98.5
5°	113.1	113.6	113.6	113.1	113.6	112.6	112.6	111.6	112.1	112.1	112.6
7.5°	135.9	135.9	136.4	136.4	136.9	135.9	136.4	135.9	136.4	136.4	135.9
10°	165.5	165.5	166.5	165.5	166.0	165.0	164.5	164.5	166.0	165.5	165.0
12.5°	199.0	200.0	199.5	199.0	200.0	199.0	198.0	198.5	200.5	199.5	199.0
15°	234.4	235.4	236.4	234.9	235.4	234.9	234.4	234.9	236.9	235.9	235.4
17.5°	270.4	270.8	271.8	269.9	270.4	270.8	270.4	270.8	272.3	271.8	271.3
20°	306.3	307.2	308.2	306.3	306.8	307.2	306.8	307.2	309.2	308.2	307.7
22.5°	344.1	344.6	346.6	344.1	345.1	345.6	344.6	345.6	347.5	346.6	346.1
25°	383.5	383.0	385.9	383.9	384.4	385.4	384.4	385.4	387.8	387.8	386.4
27.5°	423.7	423.7	426.2	424.7	425.7	425.2	426.2	427.1	429.6	430.1	428.6
30°	464.0	464.0	467.9	465.5	466.9	467.4	467.4	468.4	471.3	472.3	470.3
32.5°	504.3	504.3	506.3	506.7	507.7	508.2	509.2	509.2	513.1	513.5	512.6
35°	543.6	543.6	545.6	546.5	549.0	548.0	549.5	549.5	553.8	554.3	553.8
37.5°	581.0	581.5	583.9	584.9	586.8	586.8	587.8	588.8	592.7	594.1	593.6
40°	616.4	617.4	619.4	621.3	623.2	623.2	623.7	625.2	629.5	631.0	630.5
42.5°	648.5	649.0	651.9	654.8	656.7	656.7	657.2	658.2	663.0	665.0	665.0
45°	676.6	678.1	682.0	685.8	687.8	687.3	687.3	688.8	694.1	696.5	696.5
47.5°	702.8	704.8	709.1	713.0	715.0	715.0	714.5	715.9	721.8	724.7	723.2
50°	726.1	727.6	732.4	738.3	739.7	739.7	738.3	739.7	746.0	749.9	749.9
52.5°	745.6	747.0	752.8	759.1	761.1	760.6	758.7	760.1	766.4	770.8	770.3
55°	762.1	764.0	770.3	778.1	780.0	778.6	776.1	777.6	784.4	790.2	789.7
57.5°	777.1	778.6	785.8	794.1	797.0	794.6	791.2	792.6	800.4	806.7	807.2
60°	789.7	791.2	799.4	809.1	811.6	808.7	804.3	805.7	814.5	821.8	822.7
62.5°	800.4	801.9	811.1	821.8	825.2	820.8	815.4	816.9	826.6	834.9	835.3
65°	809.1	810.6	821.3	832.4	835.8	831.0	824.7	826.1	836.8	846.0	847.0
67.5°	815.9	817.9	830.0	842.1	845.1	839.2	831.9	833.4	845.1	855.7	856.7
70°	821.8	824.2	836.8	849.9	853.3	846.5	837.8	839.7	852.8	863.5	865.0
72.5°	826.1	828.6	842.1	856.2	860.1	851.9	842.1	844.1	858.2	869.8	871.3
75°	829.0	831.5	846.0	861.1	864.5	855.7	845.1	847.0	861.6	874.2	876.1
77.5°	830.5	832.9	848.5	864.0	867.4	857.2	846.0	848.0	863.0	876.6	878.5
80°	830.5	832.4	848.5	865.0	867.9	857.7	845.5	847.0	862.5	877.1	879.0
82.5°	829.0	831.0	847.5	864.0	866.9	855.7	843.1	845.1	861.1	875.6	878.1
85°	825.6	827.6	844.1	861.1	864.0	851.9	838.7	840.7	856.7	872.2	874.7
87.5°	820.8	823.2	839.2	856.2	858.6	846.0	833.4	834.4	851.4	867.4	869.3
90°	815.0	817.4	832.4	849.4	851.9	839.2	826.1	827.6	844.1	860.6	862.5
92.5°	808.2	810.1	824.7	840.2	843.1	830.0	817.4	819.3	835.8	852.3	854.8
95°	799.4	800.9	814.5	829.0	831.5	819.8	807.2	809.1	825.6	841.7	844.1
97.5°	788.8	789.7	801.9	815.0	817.9	806.7	795.1	797.0	813.0	829.0	831.9
100°	776.6	777.1	787.8	798.9	801.4	792.1	781.5	783.9	798.9	815.4	817.4
102.5°	762.5	762.5	771.3	780.5	783.4	775.6	766.4	768.8	783.4	798.9	801.4
105°	747.0	745.6	751.9	759.1	762.5	756.7	749.9	751.9	765.5	780.5	783.4
107.5°	727.6	726.1	730.5	736.8	740.2	735.8	730.5	733.4	745.1	759.1	762.1
110°	705.7	703.8	705.7	710.6	714.5	711.6	708.7	711.1	722.3	735.4	737.3



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

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	680.5	678.1	678.6	682.0	685.4	684.9	682.9	686.8	696.0	706.7	709.1
115°	651.4	649.0	647.5	649.4	652.4	654.3	656.2	658.7	665.9	674.7	678.6
117.5°	620.8	616.9	614.5	614.5	617.9	621.3	624.7	628.1	632.9	641.2	642.6
120°	585.4	582.9	579.5	579.5	582.5	585.9	591.2	595.1	598.0	603.8	605.8
122.5°	550.4	547.0	543.6	543.6	545.6	550.4	557.7	561.1	562.6	566.0	567.4
125°	515.0	511.1	507.2	507.2	509.2	514.0	522.3	525.2	526.2	527.6	529.1
127.5°	479.1	475.2	471.8	470.3	473.3	477.1	485.4	489.3	489.8	489.8	490.7
130°	443.2	440.2	436.8	435.4	438.3	441.7	450.9	454.8	452.9	452.9	453.3
132.5°	409.2	406.3	402.9	401.9	403.8	408.2	416.5	419.9	418.4	416.5	416.9
135°	376.2	373.7	369.4	368.9	371.8	373.7	381.5	384.9	383.5	381.5	382.0
137.5°	344.6	342.2	338.3	337.8	340.7	343.2	349.0	352.4	350.4	348.5	349.0
140°	314.5	311.6	308.7	308.2	310.2	312.6	317.9	319.9	317.9	316.5	317.0
142.5°	286.4	284.4	281.0	281.0	282.0	284.0	288.3	290.3	288.3	286.4	285.4
145°	259.7	257.3	255.3	254.8	255.8	257.7	260.7	262.6	260.7	259.2	258.2
147.5°	235.9	234.0	232.0	232.0	232.5	234.0	236.4	236.9	235.4	234.4	233.5
150°	214.1	212.1	211.1	210.7	211.1	211.6	213.6	214.5	213.1	212.1	211.1
152.5°	194.2	192.7	191.7	192.2	192.2	192.7	193.2	193.7	192.2	192.2	191.2
155°	176.7	175.7	174.7	175.2	175.2	175.2	175.7	175.7	174.7	174.7	174.3
157.5°	162.1	161.1	160.7	161.1	161.1	160.7	161.1	161.1	160.2	160.2	159.7
160°	149.5	148.5	148.5	148.5	148.5	148.0	149.0	148.5	148.0	147.6	147.6
162.5°	139.3	138.3	138.3	138.8	138.3	138.3	138.3	138.3	137.8	137.8	137.4
165°	131.1	130.1	130.1	130.6	130.1	130.1	130.1	130.1	129.6	129.6	129.6
167.5°	124.3	123.8	123.8	123.8	123.8	123.3	123.8	123.8	123.3	123.3	123.3
170°	118.9	118.4	118.4	118.4	118.4	118.4	118.4	118.4	118.4	117.9	117.9
172.5°	115.5	115.0	115.0	115.0	115.0	115.0	115.0	115.0	114.6	114.6	114.6
175°	113.1	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.1	112.1
177.5°	111.6	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	110.7	110.7
180°	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7



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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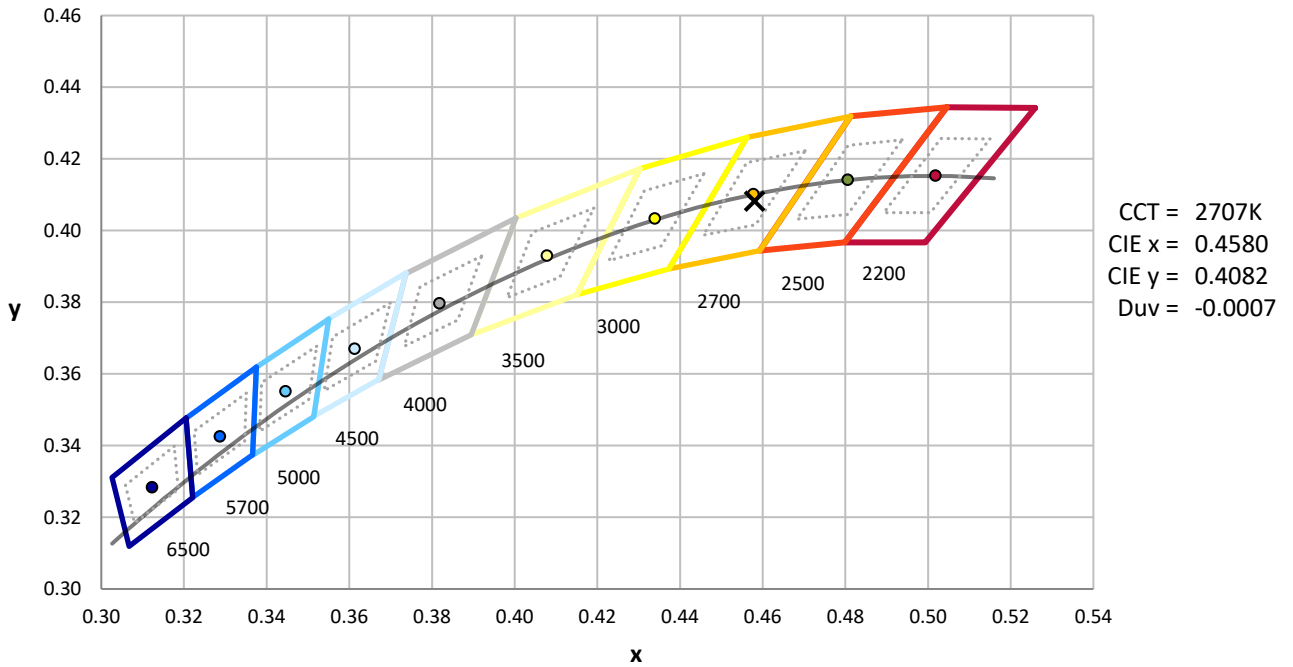
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**



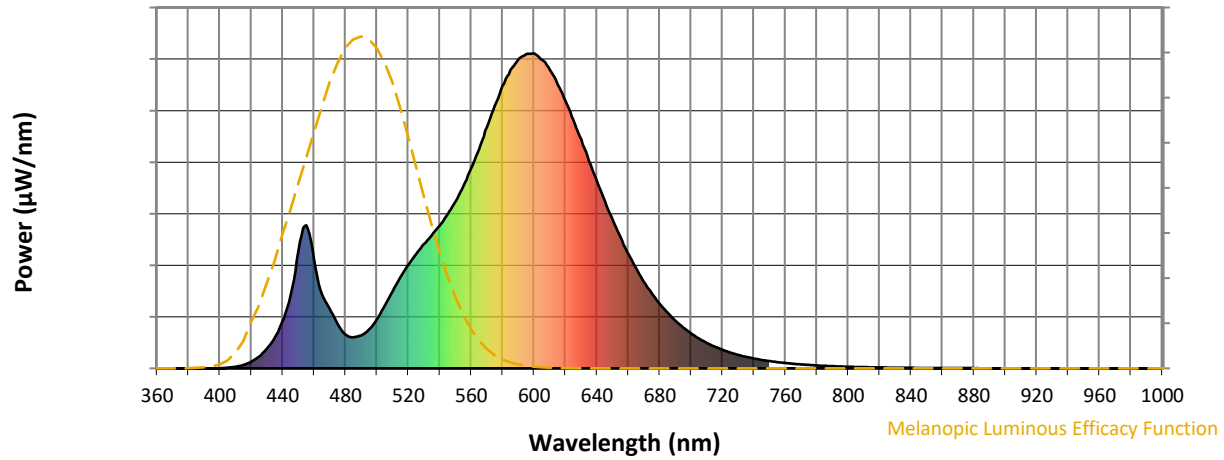
**Scotopic Lumens: NR**

**S/P: 1.12**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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 <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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			

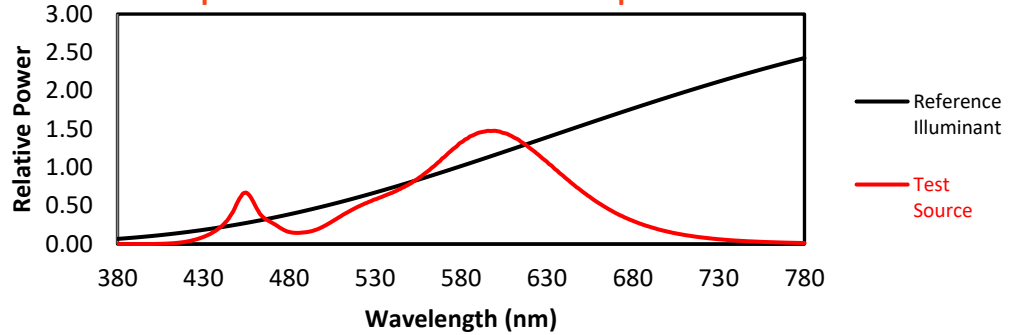
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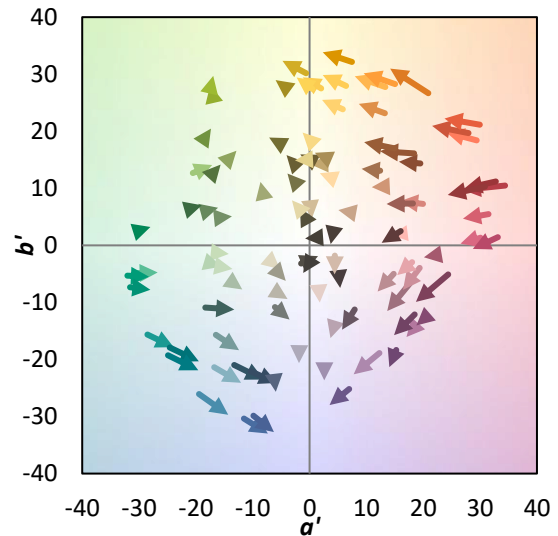
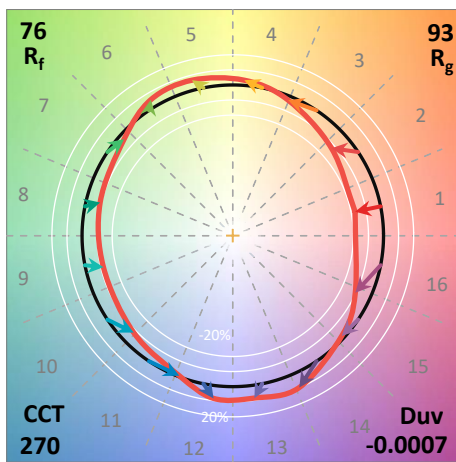
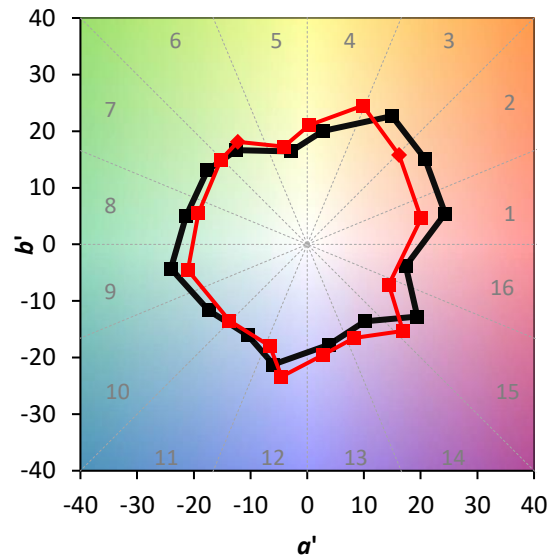
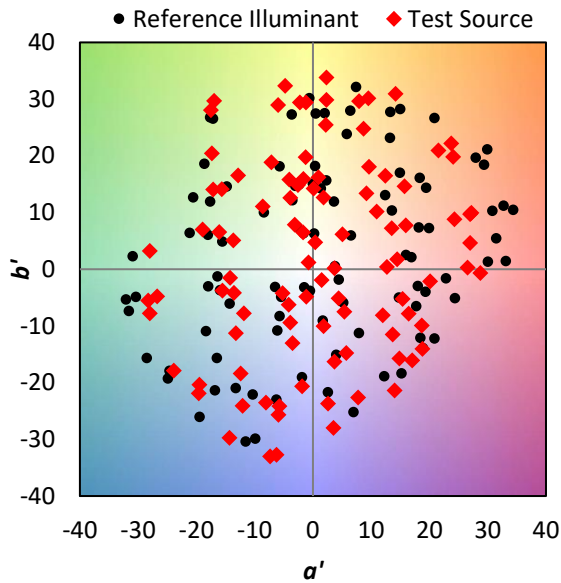
**Summary**

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

**Spectral Power Distribution Comparison**



**Color Vector Graphics**





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

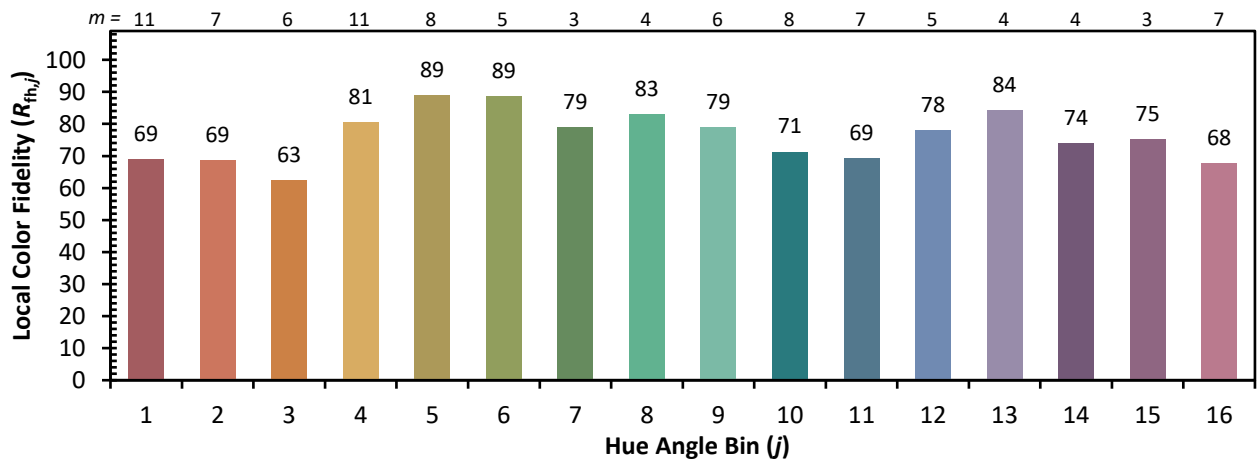
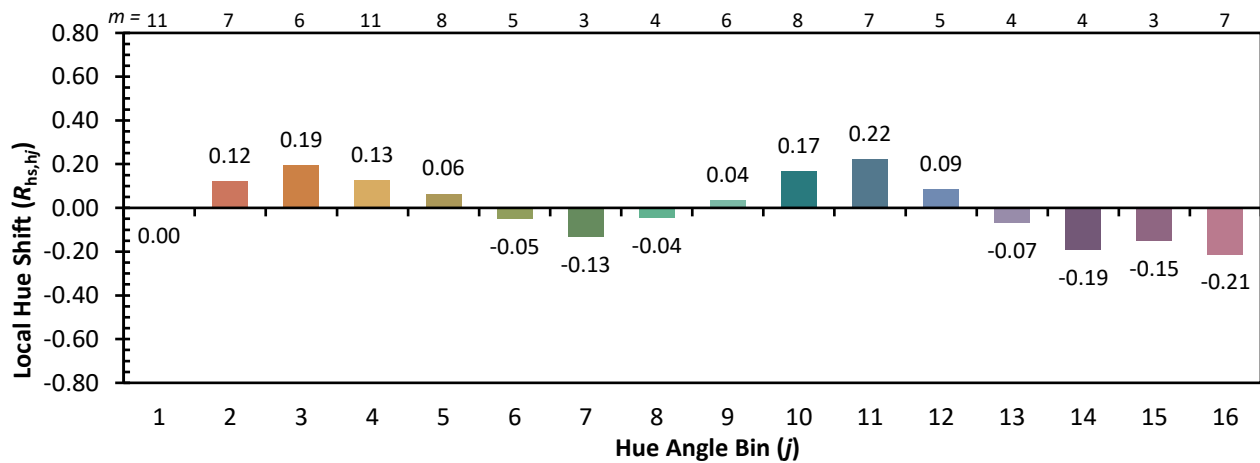
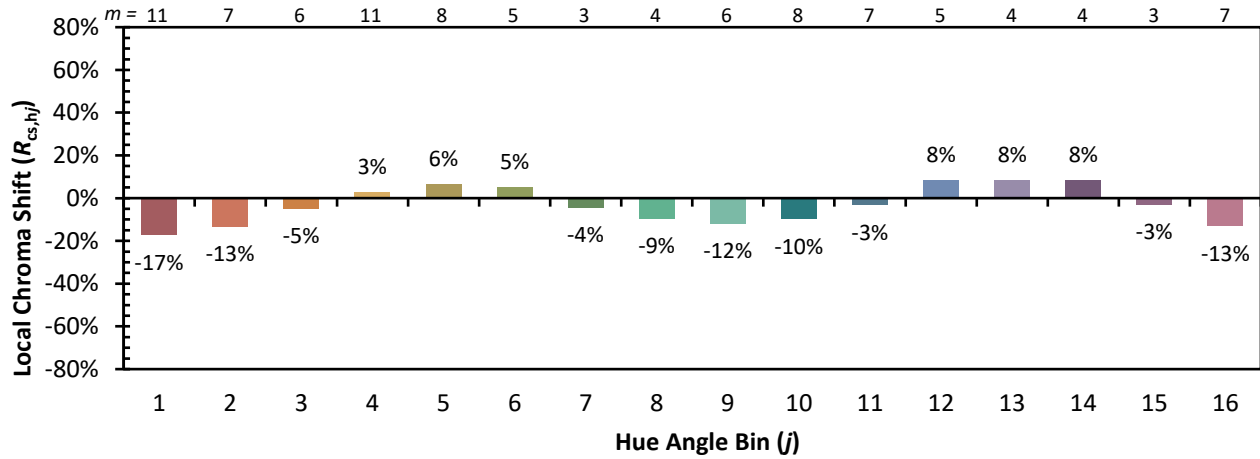
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CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
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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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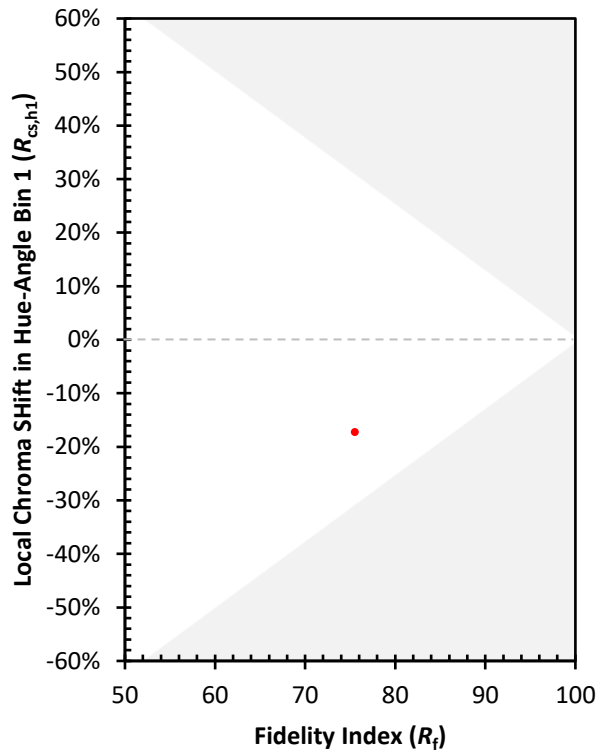
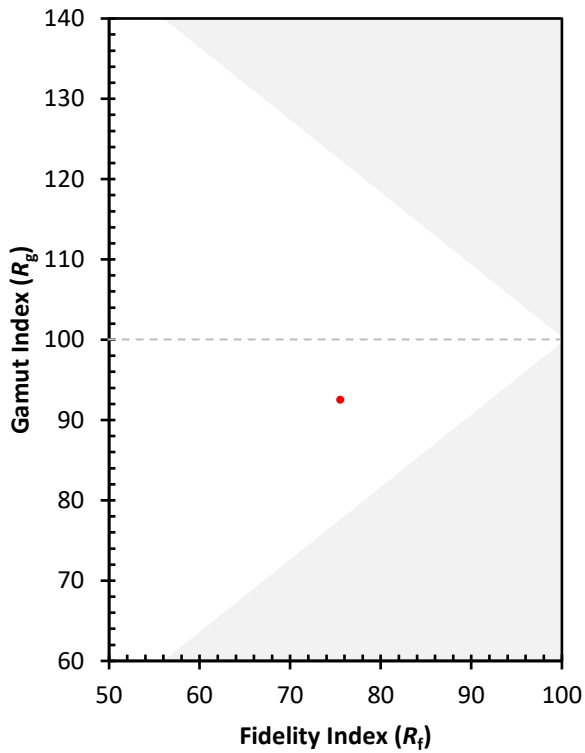
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)