

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: P856382

Luminaire Tested: **FFX-CLB-80-727-U-VM9**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856382  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-80-727-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

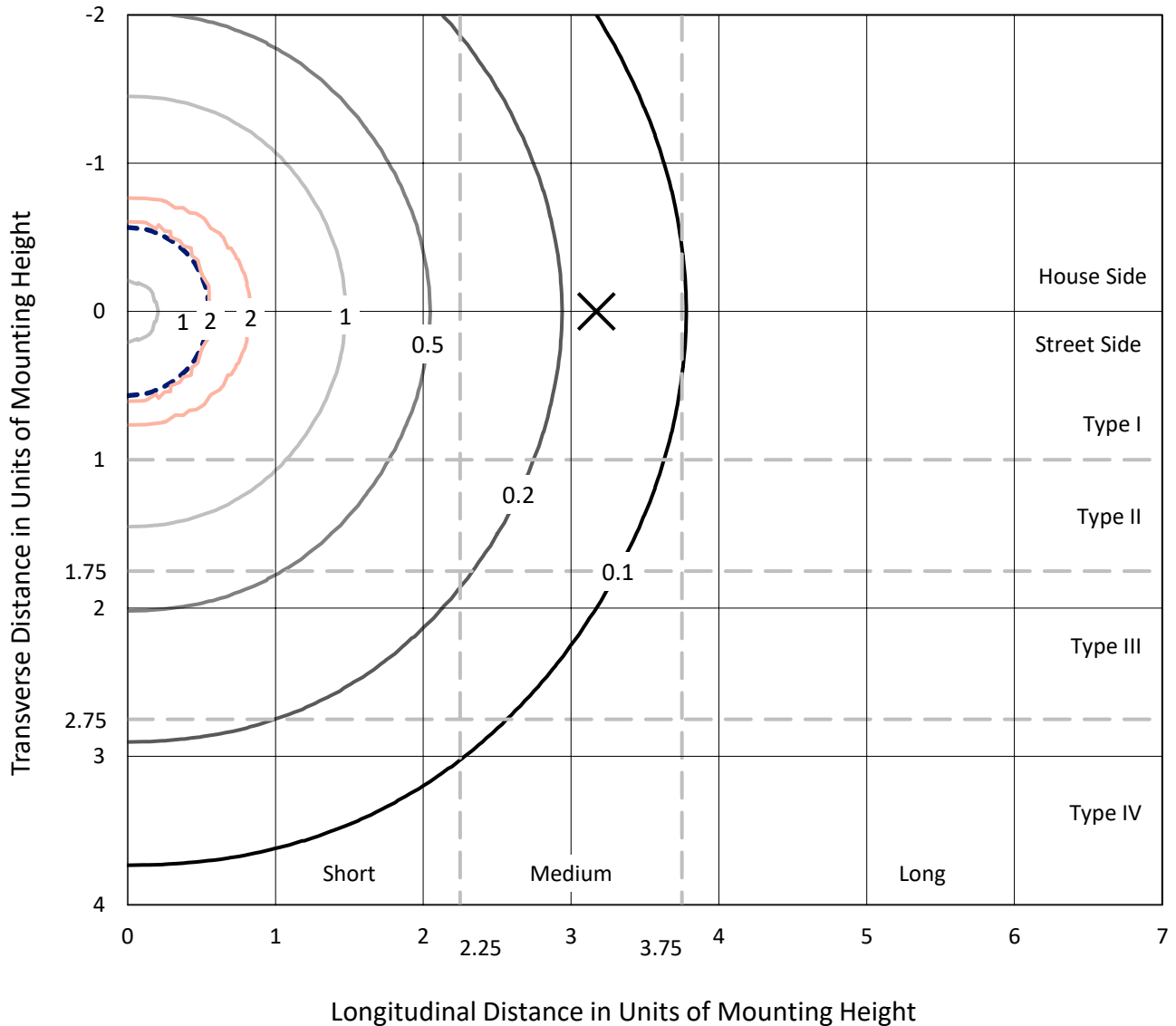
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11880.1 lumens  
Efficiency: N/A  
Efficacy: 147.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')  
IES Classification: Type V - Short  
BUG Rating: B3 - U5 - G4  
  
Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 6.1%%  
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

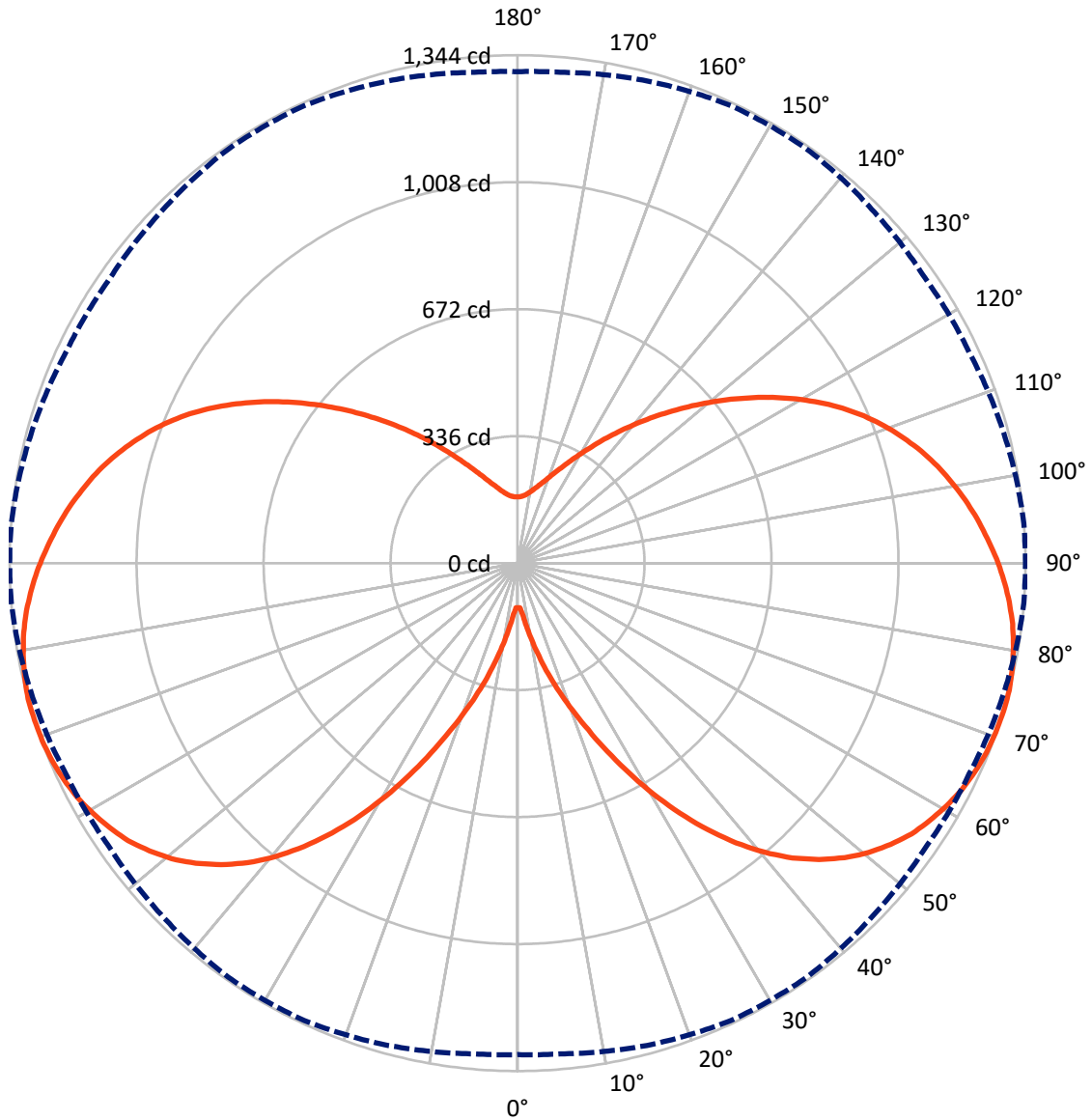
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 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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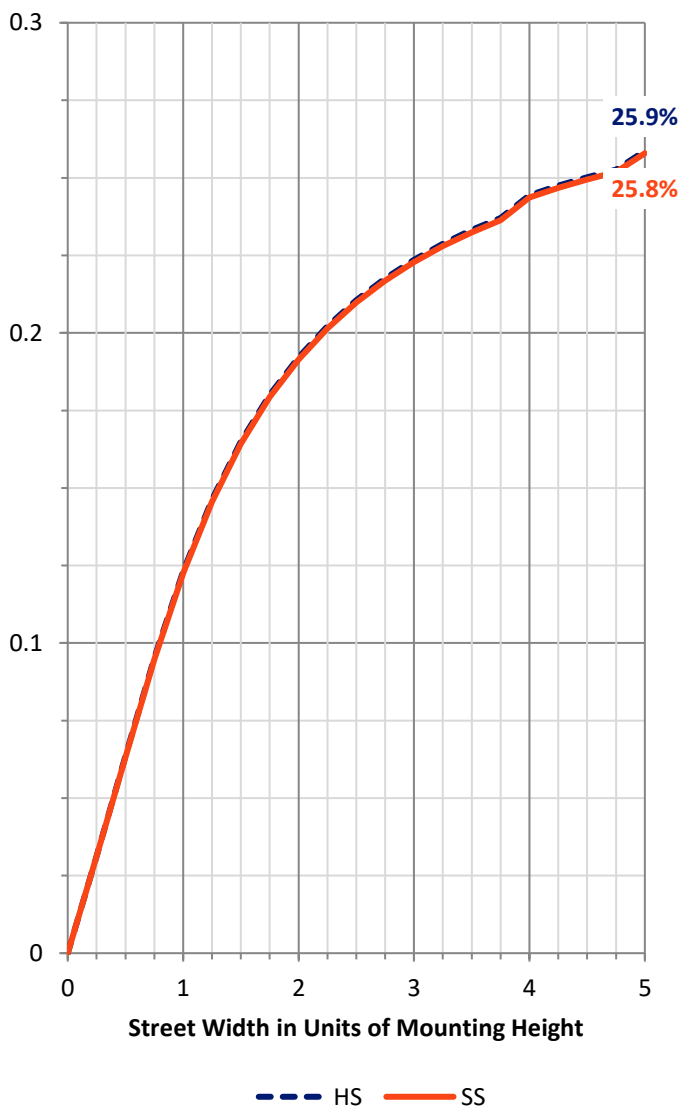
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3479.6	2460.5	5940.0
	% Fixture	29.3	20.7	50.0
<b>Street Side</b>	Lumens	3479.6	2460.5	5940.0
	% Fixture	29.3	20.7	50.0
<b>Total</b>	Lumens	6959.1	4921.0	11880.1
	% Fixture	58.6	41.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.2	0.1
10°-20°	89.1	0.8
20°-30°	257.5	2.2
30°-40°	535.6	4.5
40°-50°	850.1	7.2
50°-60°	1115.9	9.4
60°-70°	1301.2	11.0
70°-80°	1397.6	11.8
80°-90°	1396.9	11.8
90°-100°	1307.6	11.0
100°-110°	1147.3	9.7
110°-120°	922.7	7.8
120°-130°	662.7	5.6
130°-140°	425.9	3.6
140°-150°	247.1	2.1
150°-160°	129.8	1.1
160°-170°	60.4	0.5
170°-180°	17.4	0.1
0°-90°	6959.1	58.6
0°-180°	11880.1	100.0

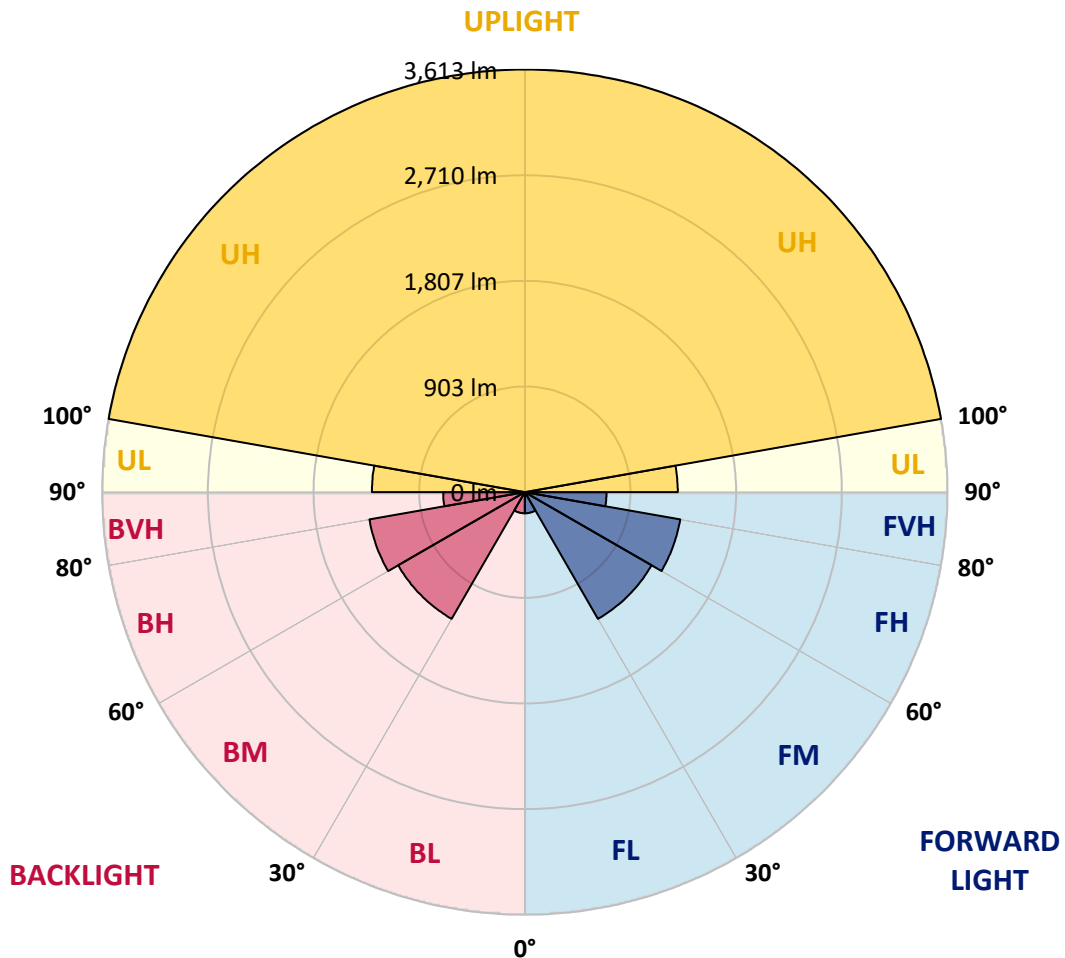


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.9	1.5			
FM (30°-60°)	1250.8	10.5			
FH (60°-80°)	1349.4	11.4			G1/1800
FVH (80°-90°)	698.5	5.9			G4/750
BL (0°-30°)	180.9	1.5	B1/500		
BM (30°-60°)	1250.8	10.5	B2/2500		
BH (60°-80°)	1349.4	11.4	B3/2500		G1/1800
BVH (80°-90°)	698.5	5.9			G4/750
UL (90°-100°)	1307.6	11.0		U5	
UH (100°-180°)	3613.4	30.4		U5	

**BUG Rating: B3-U5-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8
2.5°	122.4	122.4	121.6	121.6	120.8	120.1	120.1	119.3	118.5	118.5	118.5
5°	136.1	135.4	135.4	135.4	135.4	134.6	135.4	134.6	134.6	134.6	135.4
7.5°	165.9	165.2	165.2	165.2	165.9	165.9	166.7	167.5	168.2	168.2	168.2
10°	204.9	204.2	204.2	203.4	204.9	204.9	205.7	204.2	206.5	206.5	207.2
12.5°	250.8	250.1	250.1	249.3	250.8	250.1	251.6	250.1	253.9	252.4	252.4
15°	300.5	300.5	299.8	299.0	301.3	301.3	302.8	302.8	305.1	303.6	304.4
17.5°	353.3	352.5	352.5	351.8	354.1	354.1	354.1	355.6	358.6	355.6	357.9
20°	409.9	409.1	409.1	408.4	410.6	410.6	412.2	412.9	416.0	413.7	415.2
22.5°	471.1	470.3	470.3	470.3	473.4	474.1	474.1	476.4	480.2	476.4	479.5
25°	539.1	538.3	538.3	540.6	542.9	543.7	545.2	548.3	552.1	548.3	552.1
27.5°	611.8	611.0	612.5	615.6	617.9	619.4	621.7	622.5	627.8	624.0	629.3
30°	686.7	685.9	687.5	691.3	694.3	698.9	698.9	701.2	708.9	703.5	708.9
32.5°	760.9	760.1	762.4	767.0	771.6	776.2	776.9	780.0	787.6	783.8	789.2
35°	834.3	833.5	836.6	842.7	847.3	851.9	853.4	856.5	864.9	861.1	866.4
37.5°	903.9	903.9	906.9	913.8	919.2	925.3	924.5	928.3	936.0	933.7	939.1
40°	968.9	968.9	972.7	981.1	987.2	991.1	990.3	994.1	1002.5	1001.8	1006.3
42.5°	1027.8	1027.8	1033.1	1041.5	1047.6	1049.9	1049.9	1053.8	1062.9	1062.2	1066.8
45°	1077.5	1079.8	1085.9	1095.1	1100.4	1102.7	1101.2	1105.0	1114.9	1114.9	1118.8
47.5°	1123.3	1126.4	1132.5	1141.7	1145.5	1147.8	1146.3	1149.3	1159.3	1160.8	1164.6
50°	1163.1	1165.4	1173.1	1183.0	1186.8	1186.8	1184.5	1187.6	1198.3	1201.3	1204.4
52.5°	1197.5	1199.8	1208.2	1218.9	1221.2	1220.5	1217.4	1220.5	1231.2	1234.2	1236.5
55°	1225.1	1227.3	1237.3	1248.0	1250.3	1248.0	1243.4	1247.2	1257.2	1261.8	1265.6
57.5°	1247.2	1249.5	1261.0	1271.7	1274.0	1269.4	1264.1	1267.9	1279.3	1284.7	1286.2
60°	1265.6	1267.9	1280.1	1291.6	1293.1	1287.8	1281.6	1285.5	1296.9	1303.1	1304.6
62.5°	1280.1	1282.4	1295.4	1308.4	1309.2	1302.3	1295.4	1299.2	1310.7	1317.6	1319.9
65°	1290.1	1292.3	1306.9	1319.9	1321.4	1313.0	1306.1	1309.9	1320.6	1329.1	1330.6
67.5°	1296.9	1299.2	1315.3	1329.1	1329.8	1320.6	1313.0	1316.1	1328.3	1336.7	1338.2
70°	1300.0	1302.3	1319.1	1333.6	1334.4	1324.5	1315.3	1319.1	1331.3	1341.3	1342.8
72.5°	1300.8	1303.8	1321.4	1335.9	1336.7	1325.2	1316.1	1319.1	1332.1	1343.6	1344.3
75°	1297.7	1301.5	1319.9	1335.2	1335.2	1322.2	1312.2	1315.3	1329.8	1342.1	1344.3
77.5°	1293.9	1296.2	1315.3	1330.6	1329.8	1316.1	1304.6	1309.2	1323.7	1337.5	1339.0
80°	1285.5	1288.5	1307.6	1322.2	1320.6	1305.3	1294.6	1299.2	1314.5	1329.1	1330.6
82.5°	1274.8	1277.8	1296.9	1309.9	1308.4	1292.3	1281.6	1287.0	1303.1	1318.3	1319.9
85°	1261.8	1264.8	1283.2	1295.4	1293.1	1277.1	1266.3	1270.9	1288.5	1303.8	1305.3
87.5°	1244.9	1248.0	1266.3	1277.1	1274.8	1257.9	1248.8	1254.9	1270.9	1287.0	1287.8
90°	1225.8	1229.6	1245.7	1255.6	1252.6	1237.3	1228.9	1235.0	1251.1	1266.3	1267.9
92.5°	1206.7	1208.2	1223.5	1231.9	1229.6	1215.9	1208.2	1215.1	1229.6	1244.9	1244.9
95°	1183.8	1186.1	1199.8	1206.7	1204.4	1192.9	1186.1	1193.7	1206.7	1221.2	1222.0
97.5°	1159.3	1161.6	1173.1	1179.9	1177.6	1167.7	1163.1	1170.8	1182.2	1196.0	1196.8
100°	1133.3	1134.8	1144.8	1150.9	1148.6	1140.9	1137.9	1145.5	1156.2	1169.2	1169.2
102.5°	1104.2	1105.8	1113.4	1117.2	1116.5	1110.3	1110.3	1118.8	1127.2	1139.4	1140.9
105°	1073.6	1075.2	1080.5	1082.8	1082.1	1079.8	1081.3	1089.7	1096.6	1107.3	1108.8
107.5°	1039.2	1040.8	1043.8	1044.6	1044.6	1044.6	1049.9	1057.6	1065.2	1072.9	1073.6
110°	1002.5	1003.3	1005.6	1004.8	1004.8	1006.3	1014.0	1022.4	1028.5	1036.2	1036.9



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 CATALOG NUMBER: FFX-CLB-80-727-U-VM9

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	962.8	963.5	965.1	962.0	962.8	965.8	975.8	984.9	988.8	996.4	996.4
115°	920.7	919.9	921.5	917.6	916.9	922.2	932.9	943.6	946.7	952.1	952.8
117.5°	874.8	875.6	874.8	870.2	869.5	877.1	887.1	897.0	900.8	906.9	905.4
120°	827.4	826.6	827.4	822.1	821.3	829.7	839.6	849.6	851.9	857.2	855.7
122.5°	779.2	778.5	777.7	772.3	772.3	779.2	791.5	801.4	799.9	806.0	805.2
125°	729.5	729.5	728.0	722.6	722.6	731.1	741.0	750.2	748.6	755.5	753.2
127.5°	680.6	680.6	679.1	674.5	674.5	682.1	691.3	700.5	698.2	704.3	702.0
130°	632.4	632.4	630.9	626.3	626.3	632.4	642.3	650.0	646.9	652.3	651.5
132.5°	586.5	585.8	585.0	580.4	581.2	587.3	594.9	601.8	598.8	604.9	602.6
135°	542.2	541.4	540.6	536.1	536.8	542.9	549.8	555.2	552.9	556.7	555.9
137.5°	500.1	499.3	498.6	494.8	495.5	500.1	507.0	511.6	508.5	513.9	511.6
140°	460.4	459.6	458.1	455.8	456.5	461.1	464.9	470.3	467.2	471.8	469.5
142.5°	422.1	422.1	420.6	418.3	419.1	423.6	426.7	430.5	427.5	431.3	429.8
145°	386.9	386.9	385.4	383.9	383.9	387.7	390.0	393.8	390.8	394.6	393.1
147.5°	354.8	354.8	353.3	351.8	351.8	355.6	357.1	360.2	357.1	360.2	358.6
150°	325.0	325.0	324.2	322.7	323.5	325.0	326.5	328.8	326.5	328.8	328.1
152.5°	299.0	299.0	298.2	297.5	296.7	299.0	299.8	302.1	299.8	302.1	300.5
155°	276.1	275.3	275.3	273.8	273.8	275.3	276.1	277.6	275.3	277.6	276.8
157.5°	255.4	255.4	254.6	253.9	253.9	254.6	255.4	256.2	254.6	256.9	255.4
160°	237.8	237.8	237.1	236.3	236.3	237.1	237.1	237.8	236.3	237.8	237.1
162.5°	222.5	222.5	221.8	221.8	221.0	221.8	221.8	222.5	221.8	222.5	221.8
165°	210.3	210.3	209.5	208.8	208.8	209.5	209.5	210.3	208.8	209.5	209.5
167.5°	198.8	198.8	198.8	198.1	197.3	198.1	198.1	198.1	197.3	198.1	198.1
170°	190.4	190.4	190.4	189.6	188.9	189.6	189.6	189.6	188.9	189.6	189.6
172.5°	183.5	183.5	183.5	182.8	182.8	182.8	182.8	182.8	182.8	182.8	182.8
175°	178.9	178.9	178.9	178.9	178.2	178.9	178.9	178.9	178.9	178.9	178.2
177.5°	176.6	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9
180°	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1



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**

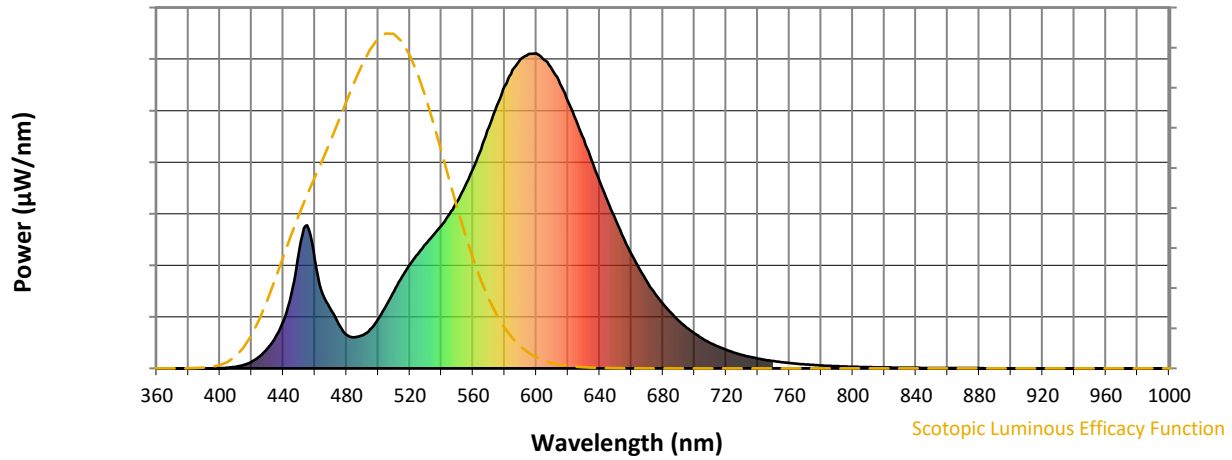


**Photopic Lumens: NR**

λ (nm)	Power W <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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**Scotopic Flux vs. Wavelength**



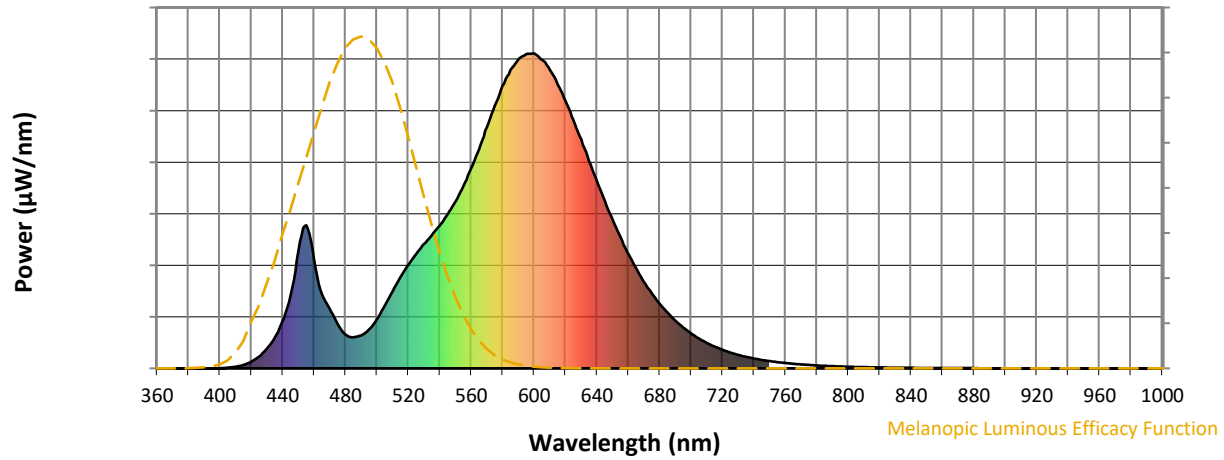
**Scotopic Lumens: NR**

**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			

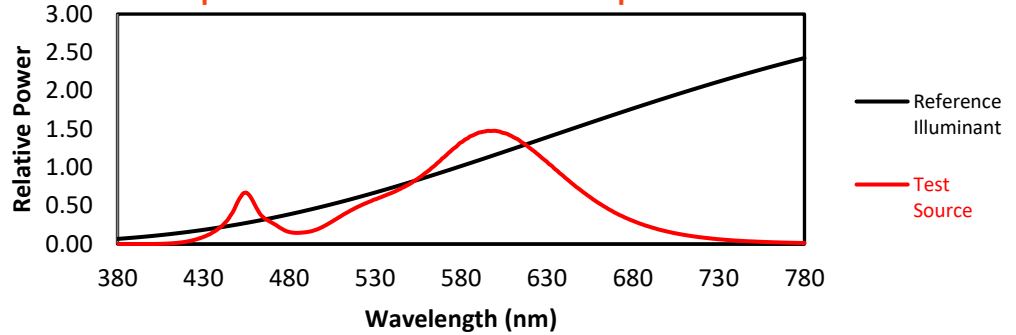
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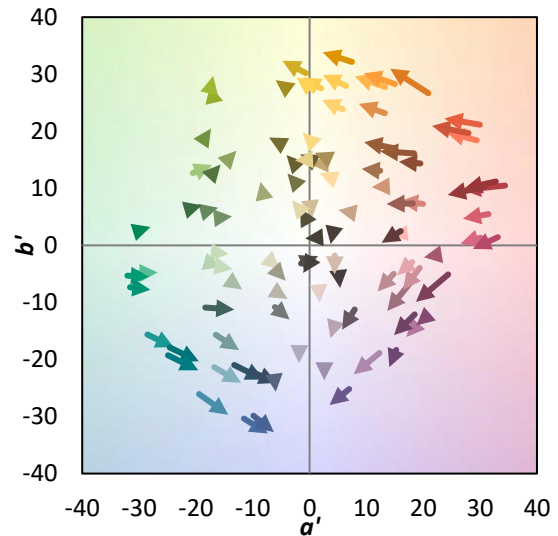
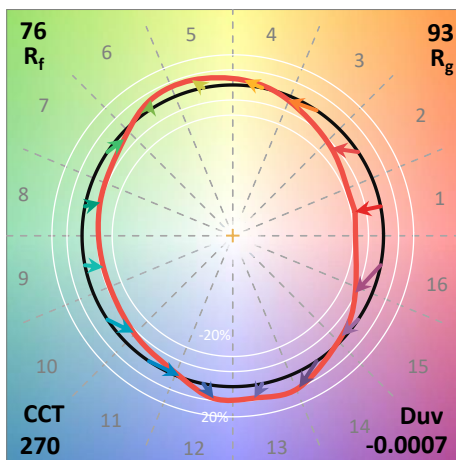
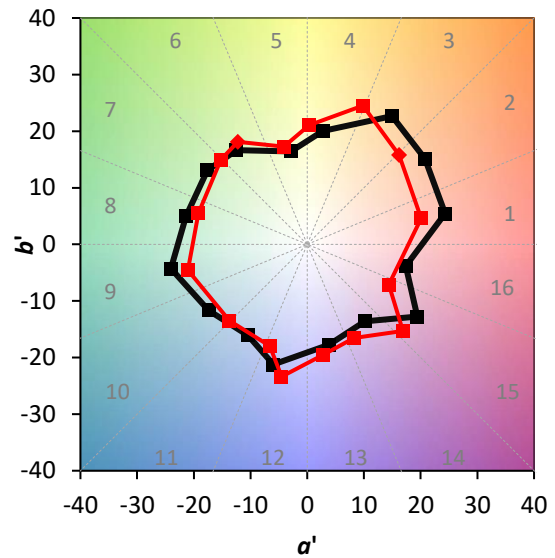
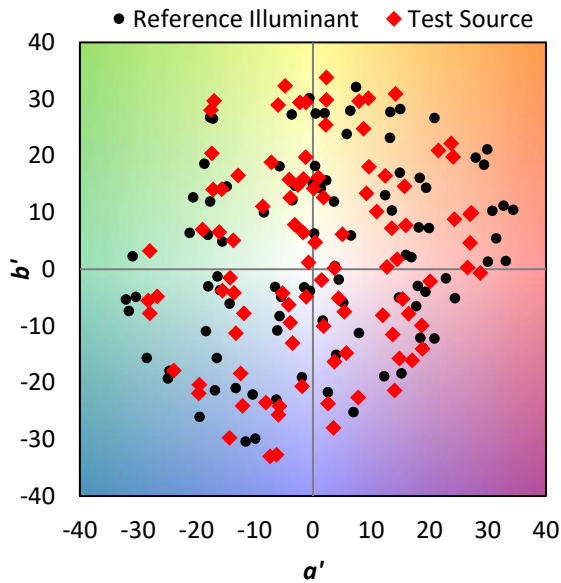
**Summary**

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

**Spectral Power Distribution Comparison**



**Color Vector Graphics**





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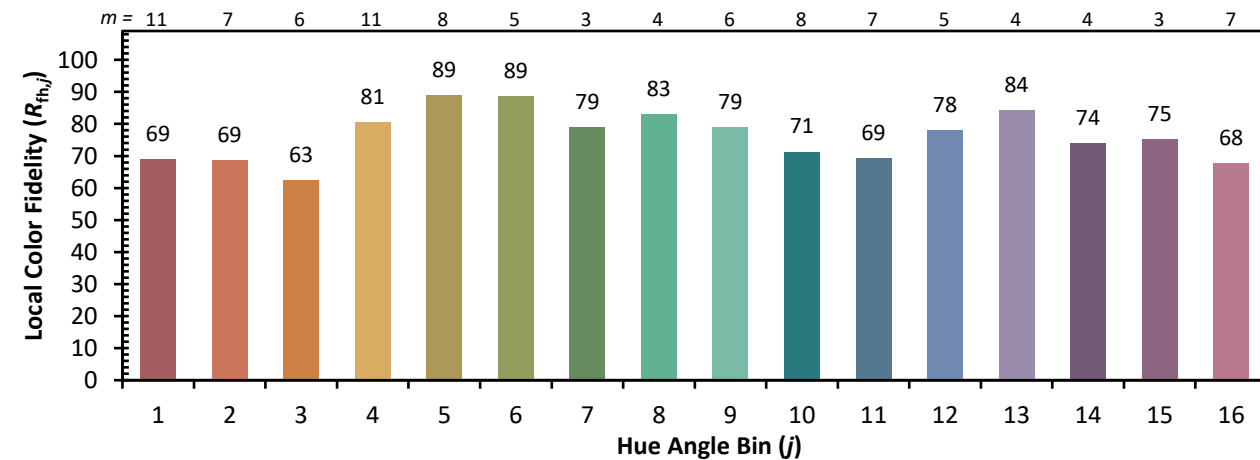
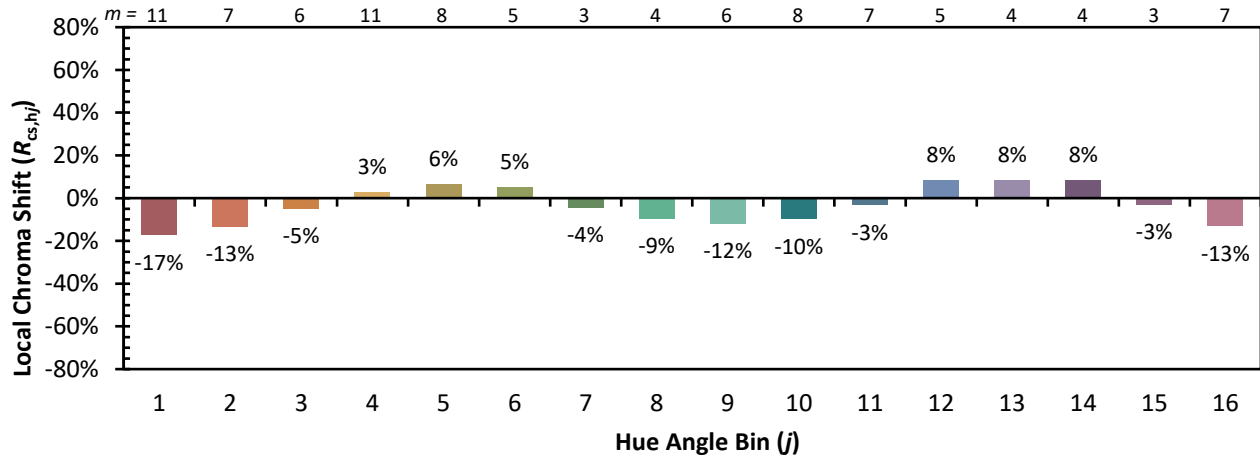
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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

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	



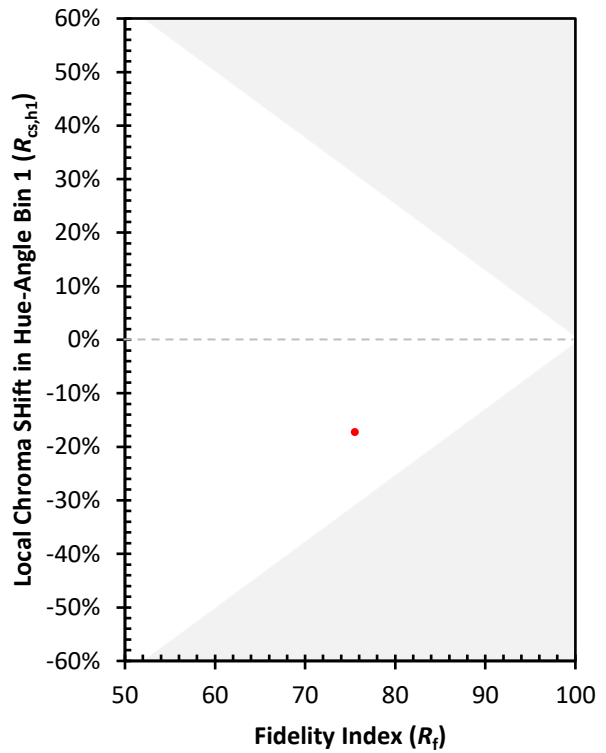
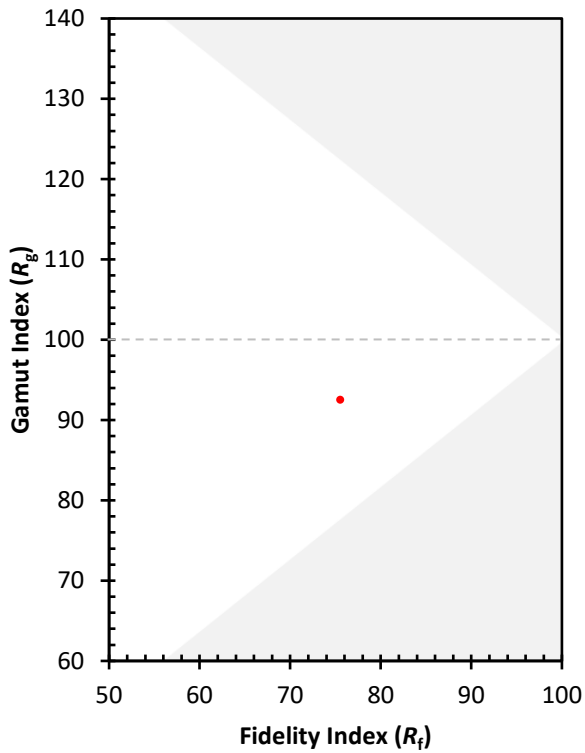
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)