

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: P856301

Luminaire Tested: **FFX-CLB-80-730-U-FG**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856301  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-80-730-U-FG  
Description: FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

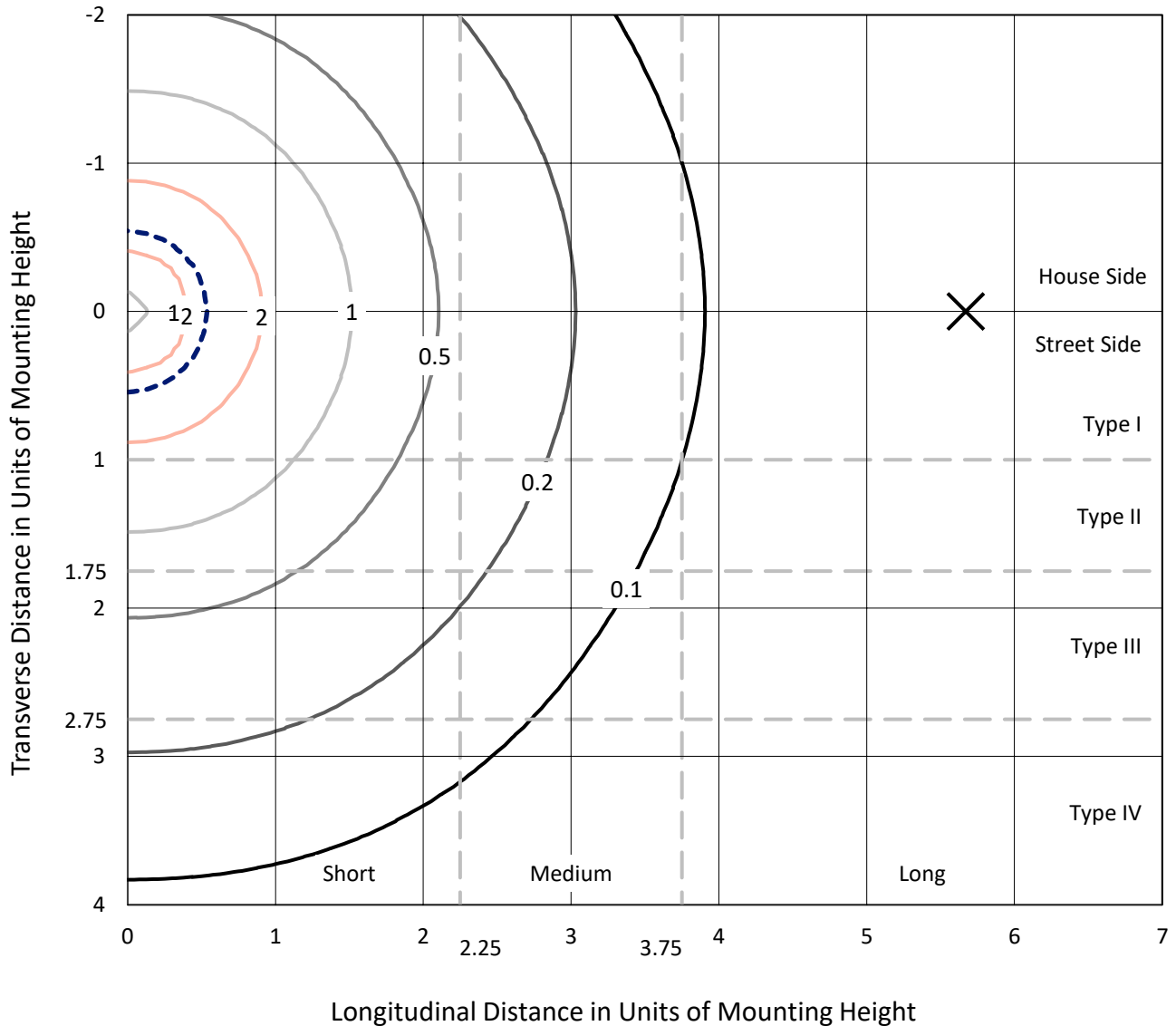
Lumens per Lamp: N/A  
Luminaire Lumens: 13262 lumens  
Efficiency: N/A  
Efficacy: 164.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1.5')  
IES Classification: Type V - Short  
BUG Rating: B3 - U5 - G5

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

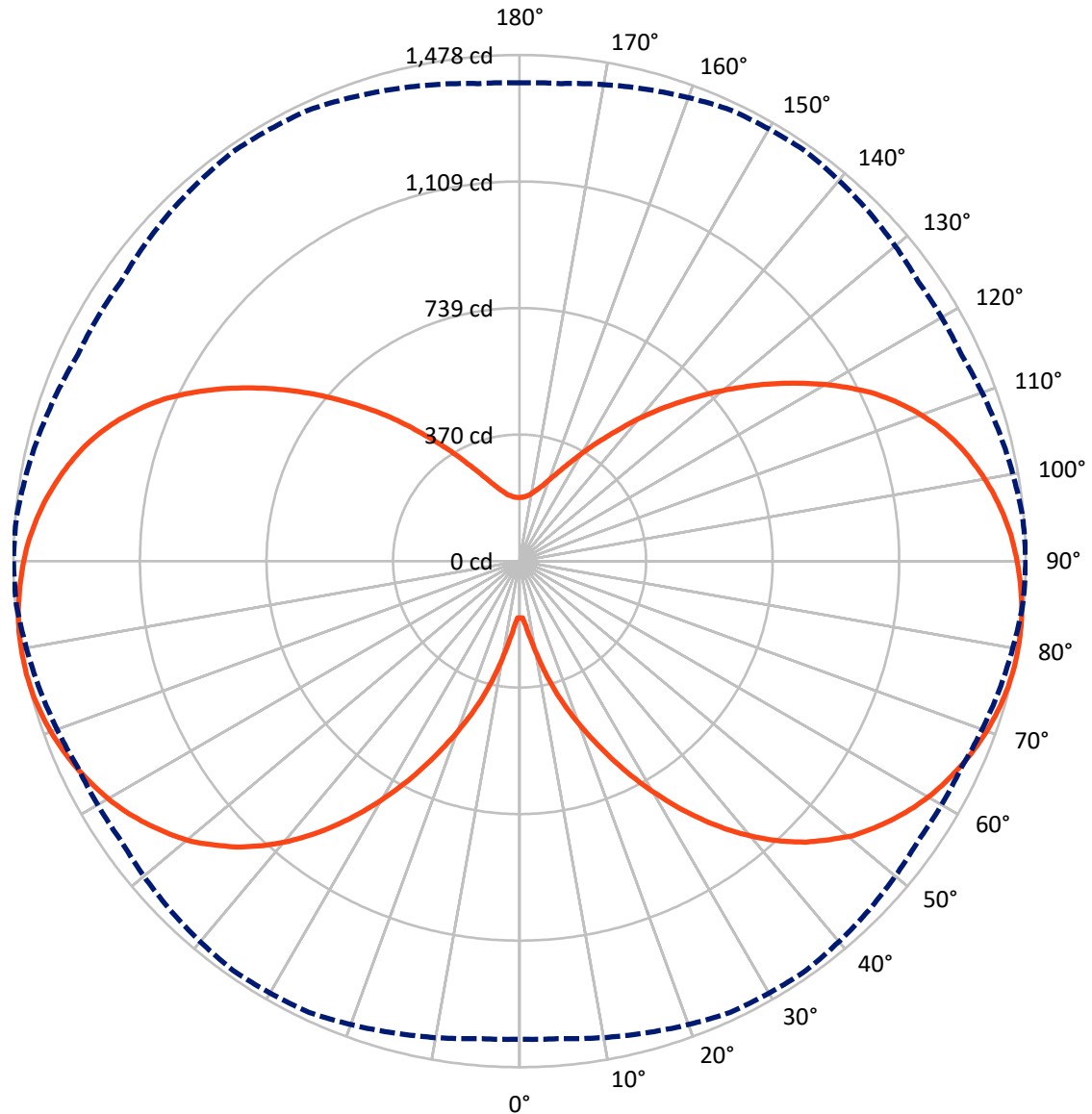
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 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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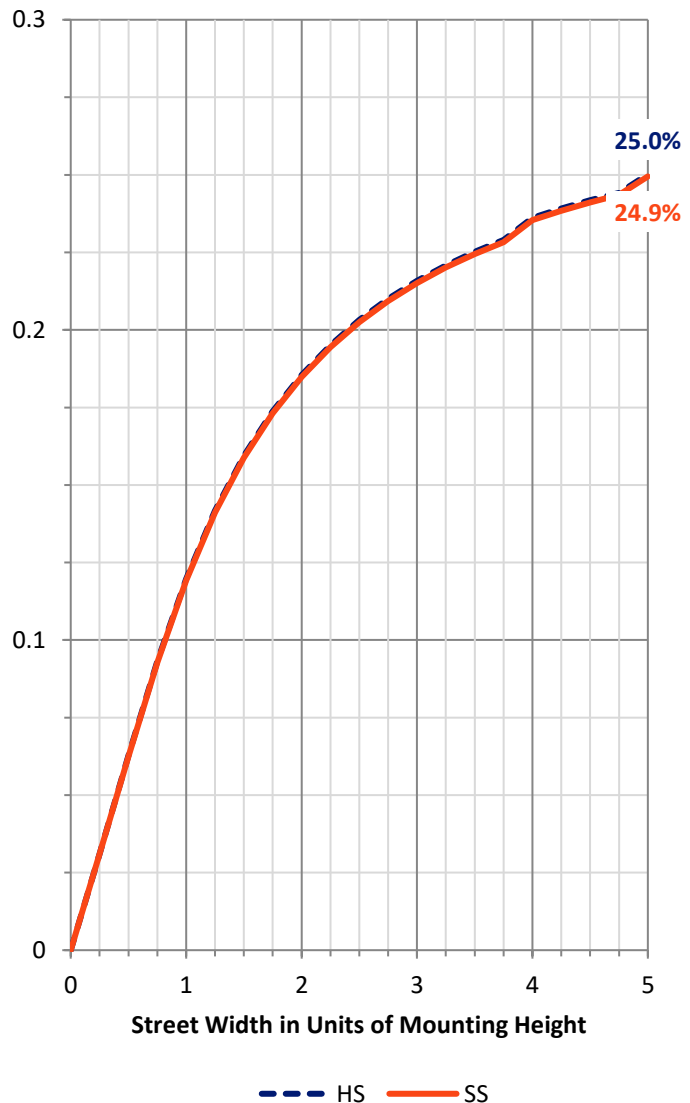
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3773.2	2857.8	6631.0
	% Fixture	28.5	21.5	50.0
<b>Street Side</b>	Lumens	3773.2	2857.8	6631.0
	% Fixture	28.5	21.5	50.0
<b>Total</b>	Lumens	7546.3	5715.6	13262.0
	% Fixture	56.9	43.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.1	0.2
10°-20°	115.7	0.9
20°-30°	304.3	2.3
30°-40°	581.7	4.4
40°-50°	894.2	6.7
50°-60°	1171.5	8.8
60°-70°	1382.6	10.4
70°-80°	1516.8	11.4
80°-90°	1558.4	11.8
90°-100°	1501.4	11.3
100°-110°	1346.2	10.2
110°-120°	1094.0	8.2
120°-130°	781.7	5.9
130°-140°	494.4	3.7
140°-150°	276.9	2.1
150°-160°	139.4	1.1
160°-170°	63.3	0.5
170°-180°	18.4	0.1
0°-90°	7546.3	56.9
0°-180°	13262.0	100.0

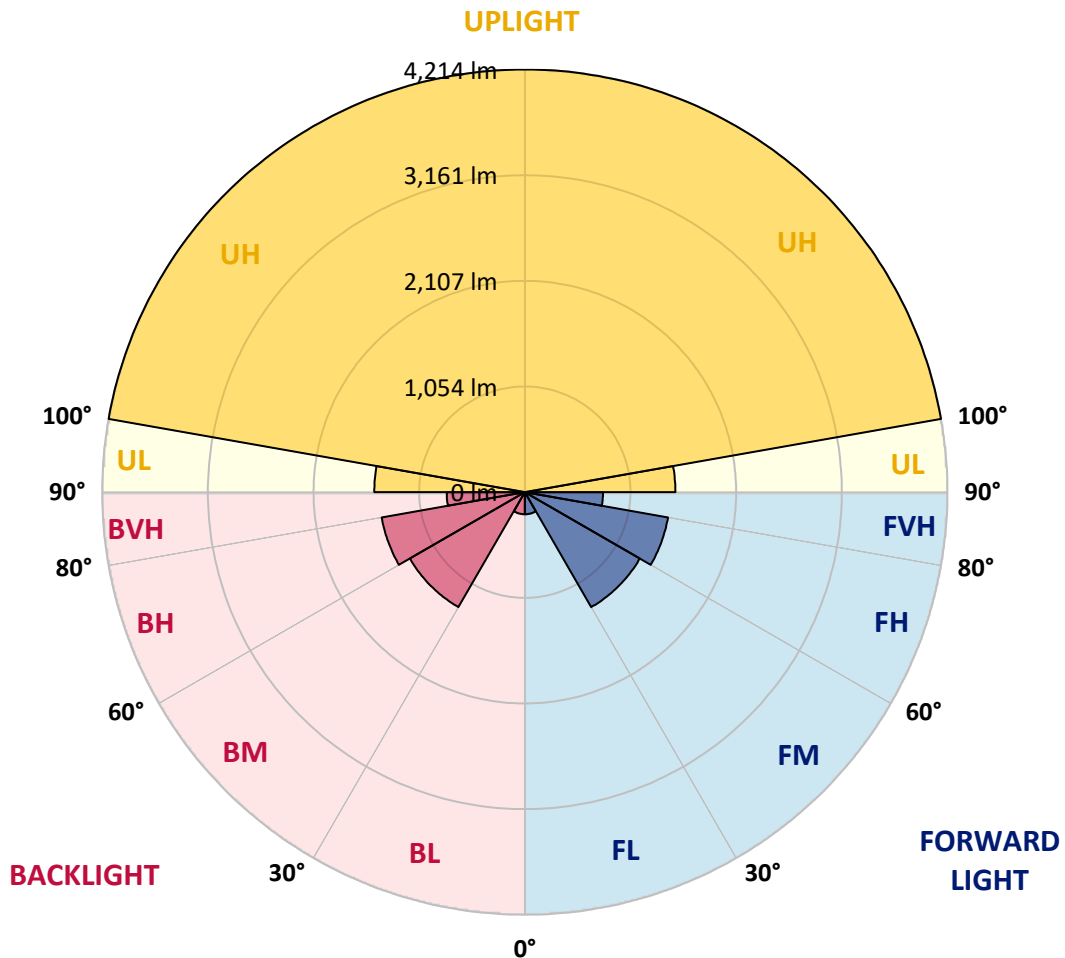


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.5	1.7			
FM (30°-60°)	1323.7	10.0			
FH (60°-80°)	1449.7	10.9			G1/1800
FVH (80°-90°)	779.2	5.9			G5
BL (0°-30°)	220.5	1.7	B1/500		
BM (30°-60°)	1323.7	10.0	B2/2500		
BH (60°-80°)	1449.7	10.9	B3/2500		G1/1800
BVH (80°-90°)	779.2	5.9			G5
UL (90°-100°)	1501.4	11.3		U5	
UH (100°-180°)	4214.2	31.8		U5	

**BUG Rating: B3-U5-G5**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5
2.5°	174.7	174.7	173.8	172.2	171.4	170.6	168.9	166.5	165.7	165.7	165.7
5°	190.2	191.0	191.0	190.2	191.0	189.3	189.3	187.7	188.5	188.5	189.3
7.5°	228.5	228.5	229.3	229.3	230.1	228.5	229.3	228.5	229.3	229.3	228.5
10°	278.3	278.3	279.9	278.3	279.1	277.5	276.7	276.7	279.1	278.3	277.5
12.5°	334.6	336.2	335.4	334.6	336.2	334.6	333.0	333.8	337.1	335.4	334.6
15°	394.2	395.8	397.5	395.0	395.8	395.0	394.2	395.0	398.3	396.6	395.8
17.5°	454.6	455.4	457.0	453.8	454.6	455.4	454.6	455.4	457.8	457.0	456.2
20°	515.0	516.6	518.2	515.0	515.8	516.6	515.8	516.6	519.9	518.2	517.4
22.5°	578.6	579.5	582.7	578.6	580.3	581.1	579.5	581.1	584.3	582.7	581.9
25°	644.7	643.9	648.8	645.6	646.4	648.0	646.4	648.0	652.1	652.1	649.6
27.5°	712.5	712.5	716.6	714.1	715.7	714.9	716.6	718.2	722.3	723.1	720.6
30°	780.2	780.2	786.7	782.7	785.1	785.9	785.9	787.6	792.5	794.1	790.8
32.5°	848.0	848.0	851.2	852.0	853.7	854.5	856.1	856.1	862.6	863.5	861.8
35°	914.1	914.1	917.3	919.0	923.0	921.4	923.9	923.9	931.2	932.0	931.2
37.5°	976.9	977.7	981.8	983.4	986.7	986.7	988.3	990.0	996.5	998.9	998.1
40°	1036.5	1038.1	1041.4	1044.6	1047.9	1047.9	1048.7	1051.2	1058.5	1061.0	1060.2
42.5°	1090.3	1091.2	1096.1	1101.0	1104.2	1104.2	1105.0	1106.7	1114.8	1118.1	1118.1
45°	1137.7	1140.1	1146.7	1153.2	1156.5	1155.6	1155.6	1158.1	1167.1	1171.1	1171.1
47.5°	1181.8	1185.0	1192.4	1198.9	1202.2	1202.2	1201.3	1203.8	1213.6	1218.5	1216.0
50°	1220.9	1223.4	1231.5	1241.3	1243.8	1243.8	1241.3	1243.8	1254.4	1260.9	1260.9
52.5°	1253.6	1256.0	1265.8	1276.4	1279.7	1278.9	1275.6	1278.1	1288.7	1296.0	1295.2
55°	1281.3	1284.6	1295.2	1308.3	1311.5	1309.1	1305.0	1307.4	1318.9	1328.7	1327.8
57.5°	1306.6	1309.1	1321.3	1335.2	1340.1	1336.0	1330.3	1332.7	1345.8	1356.4	1357.2
60°	1327.8	1330.3	1344.2	1360.5	1364.6	1359.7	1352.3	1354.8	1369.5	1381.7	1383.3
62.5°	1345.8	1348.2	1363.8	1381.7	1387.4	1380.1	1371.1	1373.5	1389.9	1403.7	1404.6
65°	1360.5	1362.9	1380.9	1399.7	1405.4	1397.2	1386.6	1389.1	1407.0	1422.5	1424.1
67.5°	1371.9	1375.2	1395.6	1416.0	1420.9	1411.1	1398.8	1401.3	1420.9	1438.8	1440.5
70°	1381.7	1385.8	1407.0	1429.0	1434.8	1423.3	1408.6	1411.9	1433.9	1451.9	1454.3
72.5°	1389.1	1393.1	1416.0	1439.7	1446.2	1432.3	1416.0	1419.2	1442.9	1462.5	1465.0
75°	1393.9	1398.0	1422.5	1447.8	1453.5	1438.8	1420.9	1424.1	1448.6	1469.8	1473.1
77.5°	1396.4	1400.5	1426.6	1452.7	1458.4	1441.3	1422.5	1425.8	1451.1	1473.9	1477.2
80°	1396.4	1399.7	1426.6	1452.7	1457.6	1438.8	1417.6	1420.9	1447.8	1472.3	1476.4
82.5°	1393.9	1397.2	1425.0	1452.7	1457.6	1438.8	1417.6	1420.9	1447.8	1472.3	1476.4
85°	1388.2	1391.5	1419.2	1447.8	1452.7	1432.3	1410.3	1413.5	1440.5	1466.6	1470.7
87.5°	1380.1	1384.2	1411.1	1439.7	1443.7	1422.5	1401.3	1402.9	1431.5	1458.4	1461.7
90°	1370.3	1374.4	1399.7	1428.2	1432.3	1411.1	1389.1	1391.5	1419.2	1447.0	1450.3
92.5°	1358.9	1362.1	1386.6	1412.7	1417.6	1395.6	1374.4	1377.6	1405.4	1433.1	1437.2
95°	1344.2	1346.6	1369.5	1393.9	1398.0	1378.4	1357.2	1360.5	1388.2	1415.2	1419.2
97.5°	1326.2	1327.8	1348.2	1370.3	1375.2	1356.4	1336.8	1340.1	1367.0	1393.9	1398.8
100°	1305.8	1306.6	1324.6	1343.3	1347.4	1331.9	1314.0	1318.0	1343.3	1371.1	1374.4
102.5°	1282.1	1282.1	1296.8	1312.3	1317.2	1304.2	1288.7	1292.7	1317.2	1343.3	1347.4
105°	1256.0	1253.6	1264.2	1276.4	1282.1	1272.3	1260.9	1264.2	1287.0	1312.3	1317.2
107.5°	1223.4	1220.9	1228.3	1238.9	1244.6	1237.3	1228.3	1233.2	1252.8	1276.4	1281.3
110°	1186.7	1183.4	1186.7	1194.8	1201.3	1196.4	1191.5	1195.6	1214.4	1236.4	1239.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1144.2	1140.1	1140.9	1146.7	1152.4	1151.6	1148.3	1154.8	1170.3	1188.3	1192.4
115°	1095.2	1091.2	1088.7	1092.0	1096.9	1100.1	1103.4	1107.5	1119.7	1134.4	1140.9
117.5°	1043.8	1037.3	1033.2	1033.2	1038.9	1044.6	1050.4	1056.1	1064.2	1078.1	1080.6
120°	984.3	980.2	974.5	974.5	979.4	985.1	994.0	1000.6	1005.5	1015.3	1018.5
122.5°	925.5	919.8	914.1	914.1	917.3	925.5	937.7	943.4	945.9	951.6	954.1
125°	865.9	859.4	852.9	852.9	856.1	864.3	878.2	883.1	884.7	887.1	889.6
127.5°	805.5	799.0	793.3	790.8	795.7	802.3	816.1	822.7	823.5	823.5	825.1
130°	745.1	740.2	734.5	732.1	737.0	742.7	758.2	764.7	761.4	761.4	762.3
132.5°	688.0	683.1	677.4	675.8	679.0	686.4	700.2	706.0	703.5	700.2	701.1
135°	632.5	628.4	621.1	620.3	625.2	628.4	641.5	647.2	644.7	641.5	642.3
137.5°	579.5	575.4	568.8	568.0	572.9	577.0	586.8	592.5	589.2	586.0	586.8
140°	528.9	524.0	519.1	518.2	521.5	525.6	534.6	537.8	534.6	532.1	532.9
142.5°	481.5	478.3	472.5	472.5	474.2	477.4	484.8	488.0	484.8	481.5	479.9
145°	436.6	432.5	429.3	428.5	430.1	433.4	438.3	441.5	438.3	435.8	434.2
147.5°	396.6	393.4	390.1	390.1	390.9	393.4	397.5	398.3	395.8	394.2	392.6
150°	359.9	356.6	355.0	354.2	355.0	355.8	359.1	360.7	358.3	356.6	355.0
152.5°	326.5	324.0	322.4	323.2	323.2	324.0	324.8	325.6	323.2	323.2	321.6
155°	297.1	295.4	293.8	294.6	294.6	294.6	295.4	295.4	293.8	293.8	293.0
157.5°	272.6	271.0	270.1	271.0	271.0	270.1	271.0	271.0	269.3	269.3	268.5
160°	251.4	249.7	249.7	249.7	249.7	248.9	250.6	249.7	248.9	248.1	248.1
162.5°	234.2	232.6	232.6	233.4	232.6	232.6	232.6	232.6	231.8	231.8	231.0
165°	220.4	218.7	218.7	219.5	218.7	218.7	218.7	218.7	217.9	217.9	217.9
167.5°	208.9	208.1	208.1	208.1	208.1	207.3	208.1	208.1	207.3	207.3	207.3
170°	200.0	199.1	199.1	199.1	199.1	199.1	199.1	199.1	199.1	198.3	198.3
172.5°	194.2	193.4	193.4	193.4	193.4	193.4	193.4	193.4	192.6	192.6	192.6
175°	190.2	189.3	189.3	189.3	189.3	189.3	189.3	189.3	189.3	188.5	188.5
177.5°	187.7	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.1	186.1
180°	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-4

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5.

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-4  
 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-100-730-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 3003  
 CIE u': 0.2503  
 CIE v': 0.5219  
 Duv: 0.0004  
 CIE x: 0.4373  
 CIE y: 0.4053  
 CIE z: 0.1573  
 Peak Wavelength (nm): 595  
 Dominant Wavelength (nm): 582  
 Purity: 52.93545  
 Rf: 75.2  
 Rg: 93.8

CRI (Ra):	71.9		
R1:	68.2	R9:	-33.7
R2:	82.2	R10:	59.0
R3:	93.9	R11:	62.4
R4:	67.6	R12:	48.5
R5:	67.2	R13:	70.8
R6:	75.3	R14:	96.6
R7:	77.6	R15:	60.0
R8:	43.1		



**Test Conditions**

Stabilization Time: 0.794393M  
 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



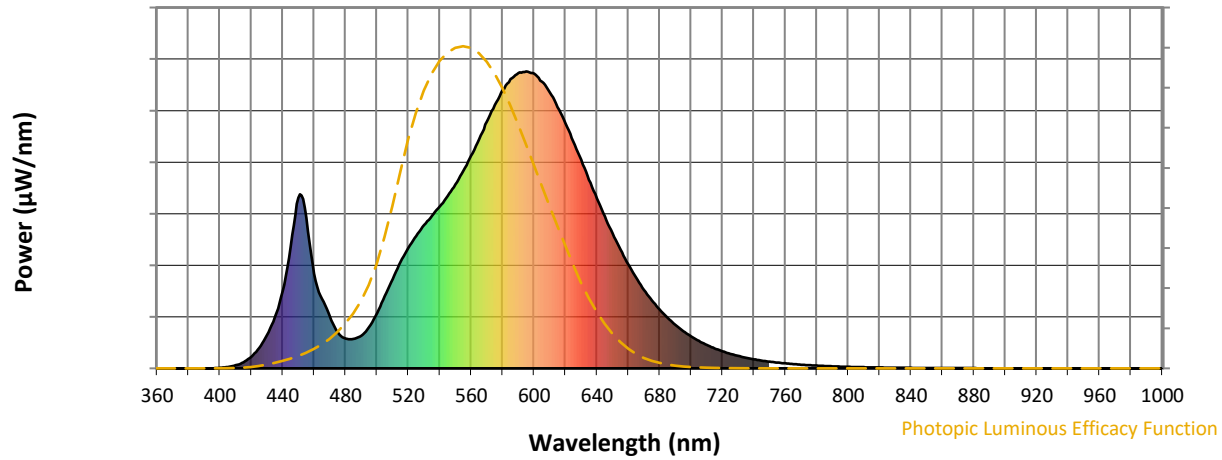
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

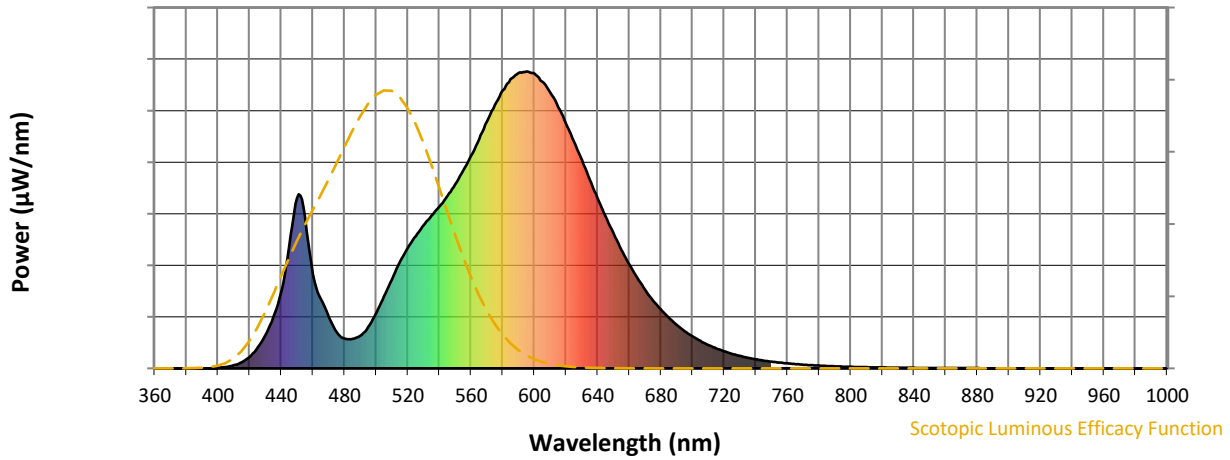


**Photopic Lumens: NR**

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.21

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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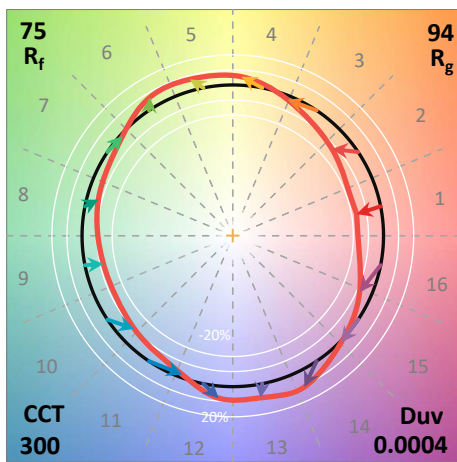
TM-30-18

**Summary**

$R_f = 75.2$   
 $R_g = 93.8$   
 CIE  $R_a = 71.9$   
 $R_g = -33.7$



**Color Vector Graphics**



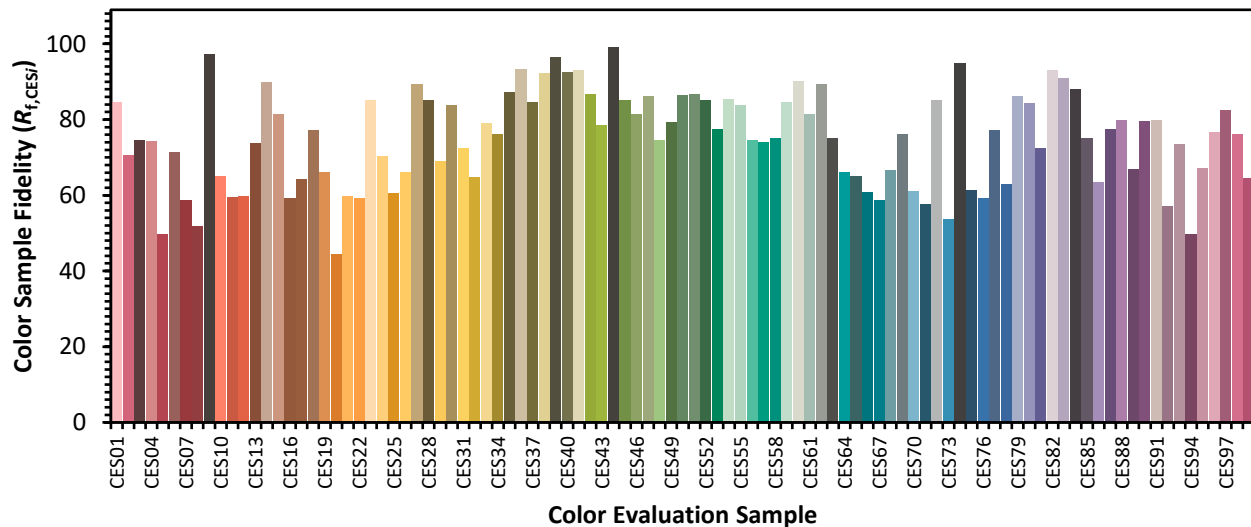


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

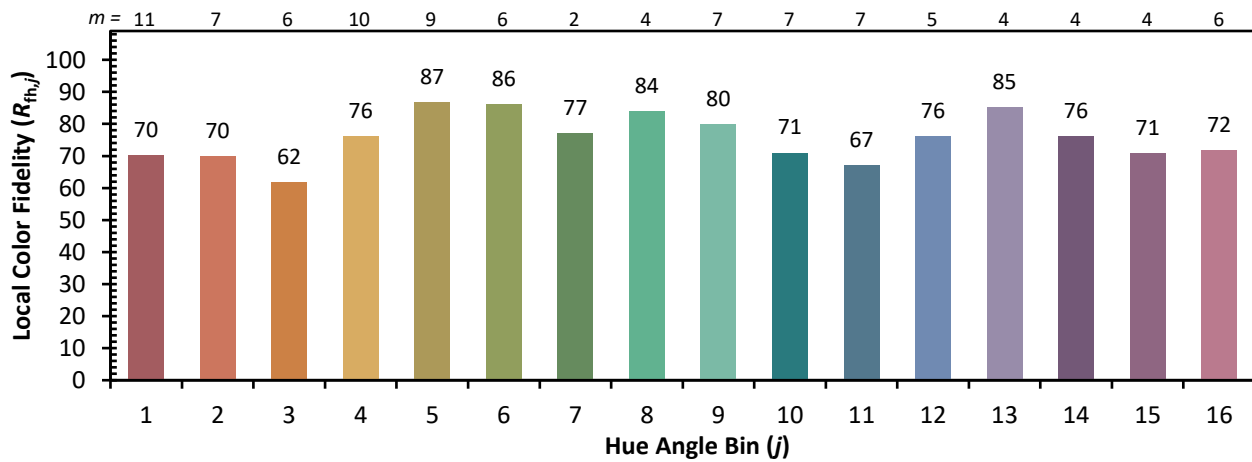
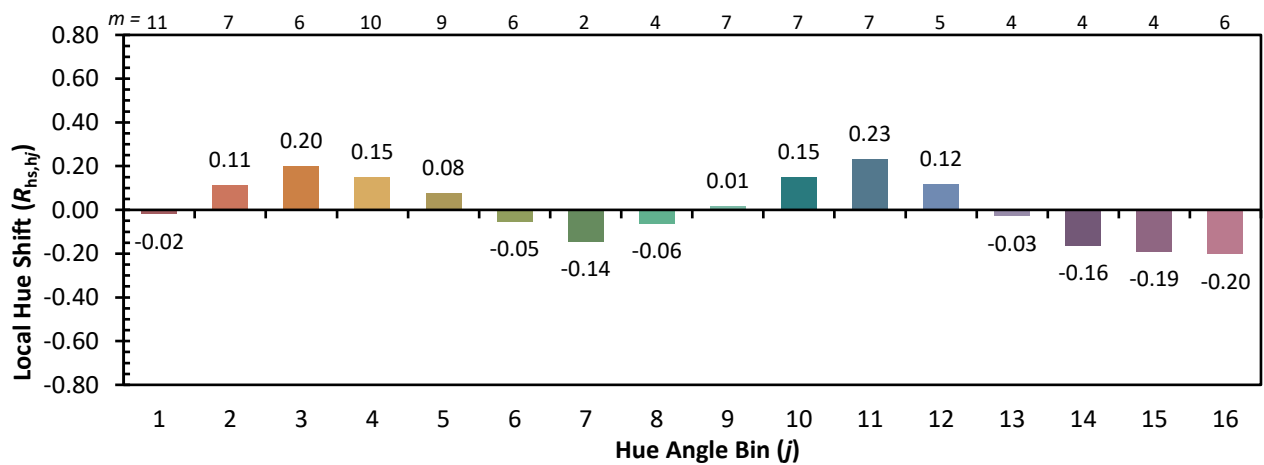
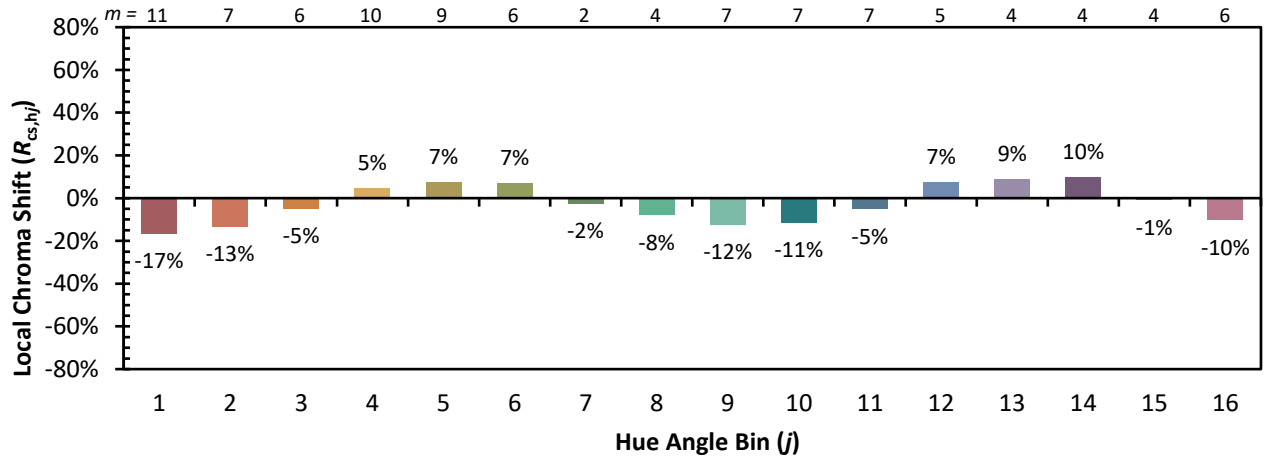
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CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
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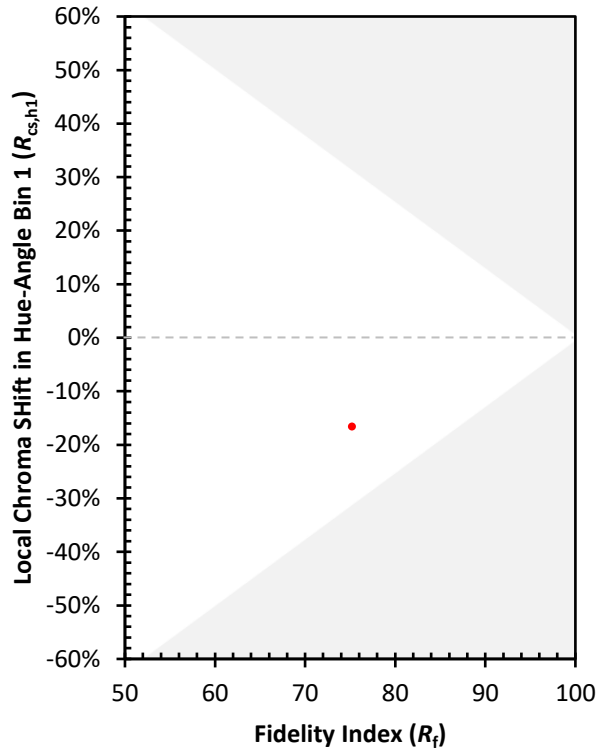
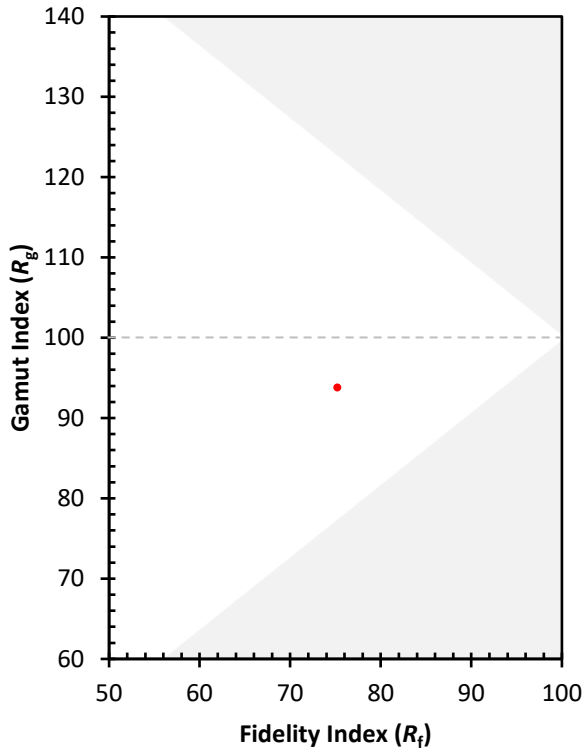
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)