

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: P856380

Luminaire Tested: **FFX-CLB-100-727-U-VM9**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856380  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-100-727-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

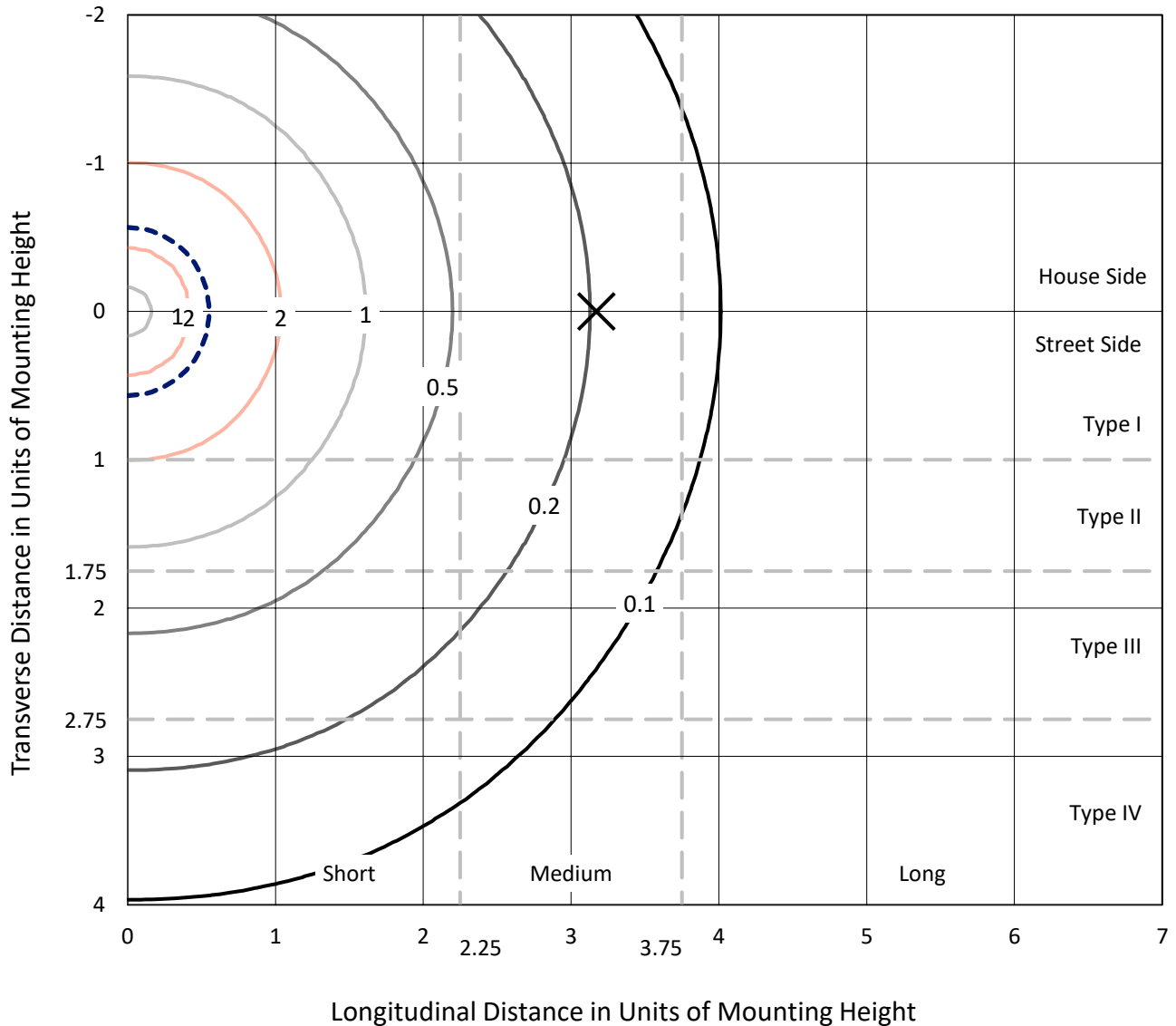
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14091.4 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')  
IES Classification: Type V - Short  
BUG Rating: B3 - U5 - G5  
  
Input Watts (W): 96.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 5.2%%  
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

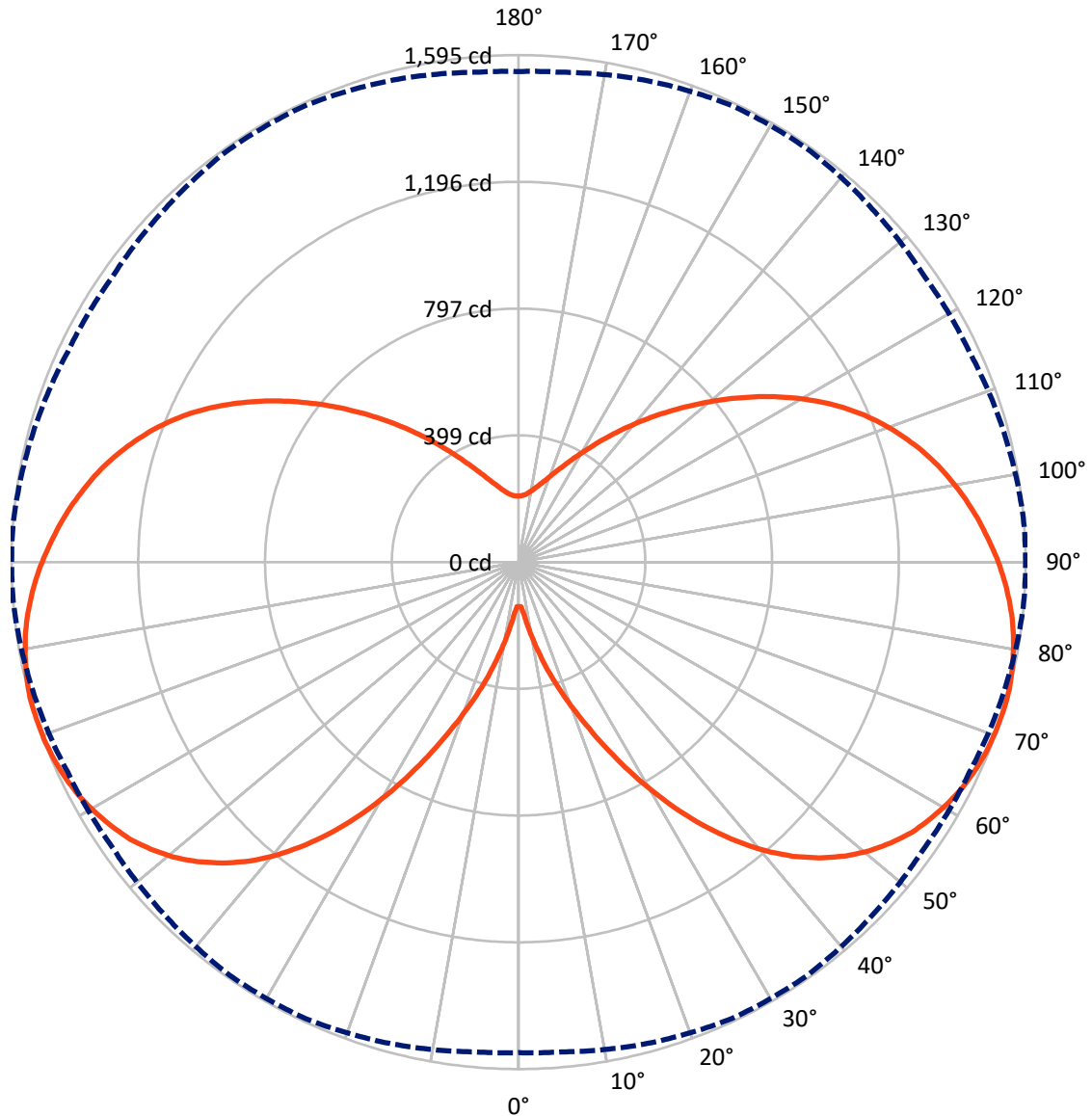
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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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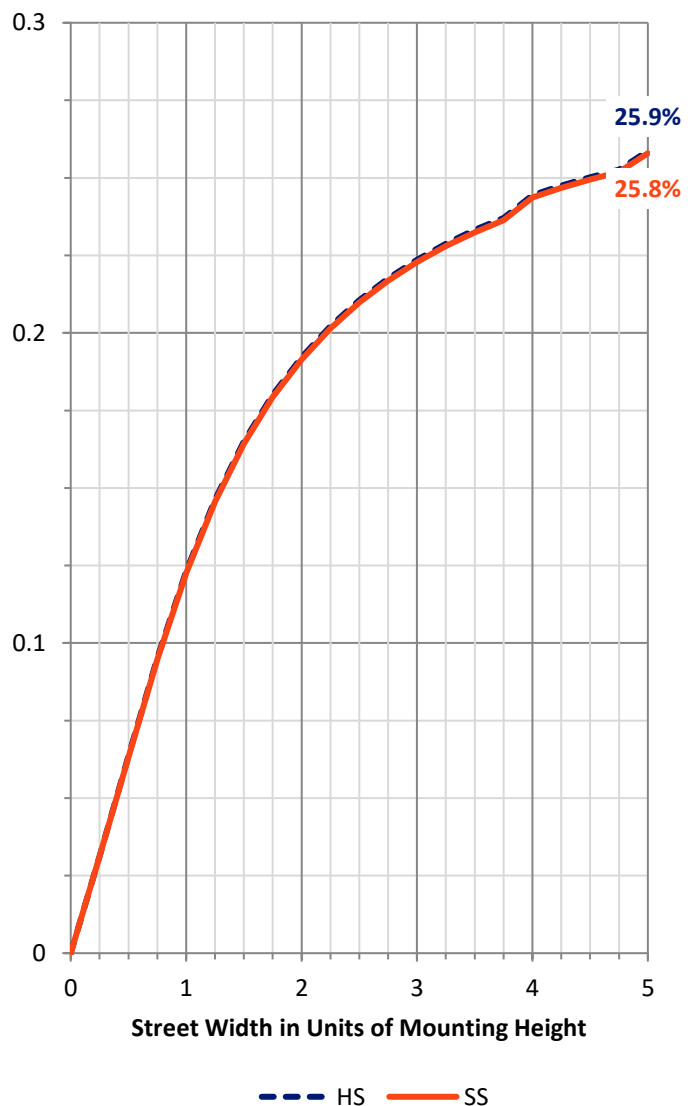
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4127.2	2918.5	7045.7
	% Fixture	29.3	20.7	50.0
<b>Street Side</b>	Lumens	4127.2	2918.5	7045.7
	% Fixture	29.3	20.7	50.0
<b>Total</b>	Lumens	8254.5	5836.9	14091.4
	% Fixture	58.6	41.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.1	0.1
10°-20°	105.7	0.8
20°-30°	305.5	2.2
30°-40°	635.4	4.5
40°-50°	1008.3	7.2
50°-60°	1323.6	9.4
60°-70°	1543.4	11.0
70°-80°	1657.7	11.8
80°-90°	1656.9	11.8
90°-100°	1551.0	11.0
100°-110°	1360.9	9.7
110°-120°	1094.4	7.8
120°-130°	786.1	5.6
130°-140°	505.2	3.6
140°-150°	293.1	2.1
150°-160°	153.9	1.1
160°-170°	71.7	0.5
170°-180°	20.6	0.1
0°-90°	8254.5	58.6
0°-180°	14091.4	100.0



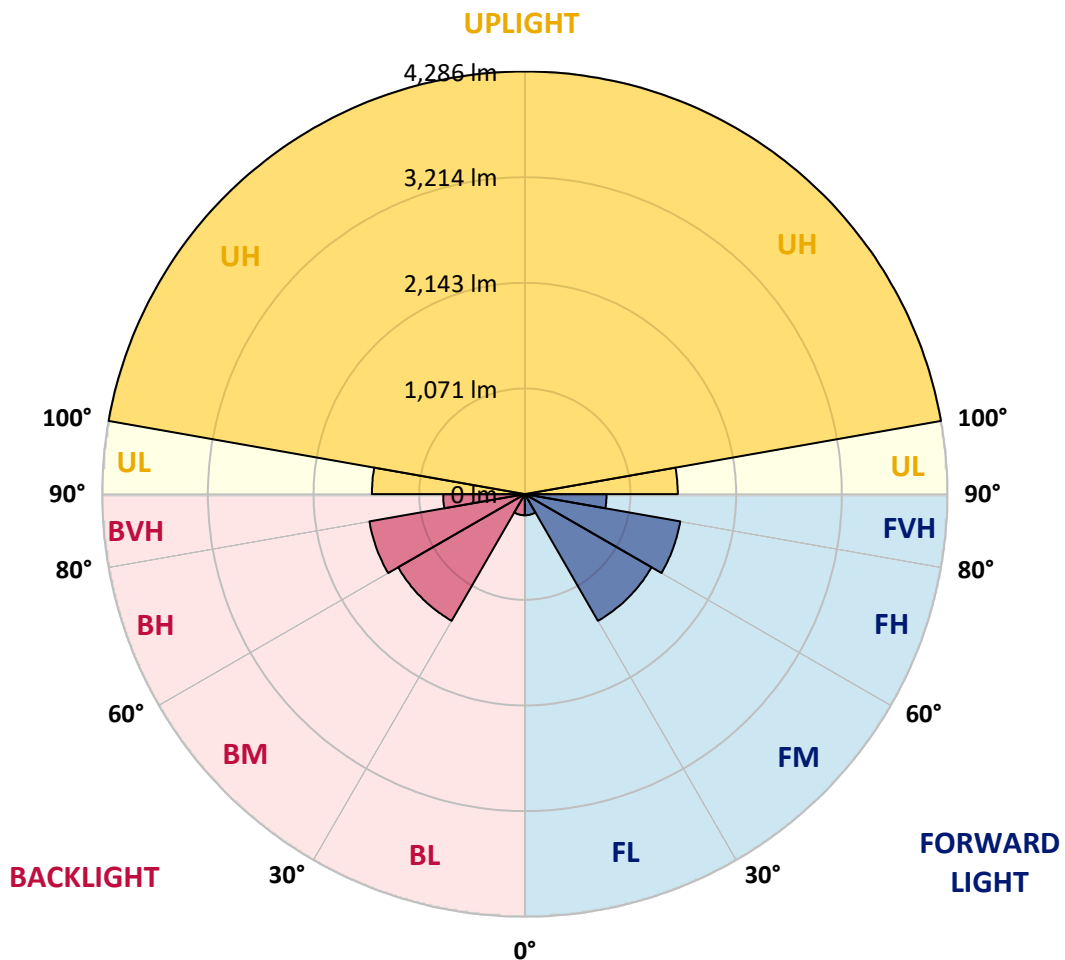
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.6	1.5			
FM (30°-60°)	1483.6	10.5			
FH (60°-80°)	1600.5	11.4			G1/1800
FVH (80°-90°)	828.5	5.9			G5
BL (0°-30°)	214.6	1.5	B1/500		
BM (30°-60°)	1483.6	10.5	B2/2500		
BH (60°-80°)	1600.5	11.4	B3/2500		G1/1800
BVH (80°-90°)	828.5	5.9			G5
UL (90°-100°)	1551.0	11.0		U5	
UH (100°-180°)	4286.0	30.4		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°	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7
2.5°	145.1	145.1	144.2	144.2	143.3	142.4	142.4	141.5	140.6	140.6	140.6
5°	161.5	160.5	160.5	160.5	160.5	159.6	160.5	159.6	159.6	159.6	160.5
7.5°	196.8	195.9	195.9	195.9	196.8	196.8	197.7	198.6	199.5	199.5	199.5
10°	243.1	242.2	242.2	241.3	243.1	243.1	244.0	242.2	244.9	244.9	245.8
12.5°	297.5	296.6	296.6	295.7	297.5	296.6	298.4	296.6	301.1	299.3	299.3
15°	356.5	356.5	355.6	354.7	357.4	357.4	359.2	359.2	361.9	360.1	361.0
17.5°	419.1	418.1	418.1	417.2	420.0	420.0	420.0	421.8	425.4	421.8	424.5
20°	486.2	485.3	485.3	484.4	487.1	487.1	488.9	489.8	493.4	490.7	492.5
22.5°	558.7	557.8	557.8	557.8	561.5	562.4	562.4	565.1	569.6	565.1	568.7
25°	639.5	638.6	638.6	641.3	644.0	644.9	646.7	650.3	654.9	650.3	654.9
27.5°	725.6	724.7	726.5	730.2	732.9	734.7	737.4	738.3	744.7	740.1	746.5
30°	814.5	813.6	815.4	820.0	823.6	829.0	829.0	831.8	840.8	834.5	840.8
32.5°	902.5	901.6	904.3	909.8	915.2	920.6	921.6	925.2	934.3	929.7	936.1
35°	989.6	988.7	992.3	999.6	1005.0	1010.4	1012.3	1015.9	1025.9	1021.3	1027.7
37.5°	1072.1	1072.1	1075.8	1083.9	1090.3	1097.5	1096.6	1101.1	1110.2	1107.5	1113.8
40°	1149.2	1149.2	1153.8	1163.7	1171.0	1175.5	1174.6	1179.2	1189.1	1188.2	1193.7
42.5°	1219.1	1219.1	1225.4	1235.4	1242.6	1245.4	1245.4	1249.9	1260.8	1259.9	1265.3
45°	1278.0	1280.7	1288.0	1298.9	1305.2	1308.0	1306.1	1310.7	1322.5	1322.5	1327.0
47.5°	1332.4	1336.1	1343.3	1354.2	1358.7	1361.5	1359.7	1363.3	1375.1	1376.9	1381.4
50°	1379.6	1382.3	1391.4	1403.2	1407.7	1407.7	1405.0	1408.6	1421.3	1425.0	1428.6
52.5°	1420.4	1423.1	1433.1	1445.8	1448.5	1447.6	1444.0	1447.6	1460.3	1464.0	1466.7
55°	1453.1	1455.8	1467.6	1480.3	1483.0	1480.3	1474.8	1479.4	1491.2	1496.6	1501.2
57.5°	1479.4	1482.1	1495.7	1508.4	1511.1	1505.7	1499.3	1503.9	1517.5	1523.8	1525.6
60°	1501.2	1503.9	1518.4	1532.0	1533.8	1527.5	1520.2	1524.7	1538.3	1545.6	1547.4
62.5°	1518.4	1521.1	1536.5	1551.9	1552.9	1544.7	1536.5	1541.1	1554.7	1562.8	1565.6
65°	1530.2	1532.9	1550.1	1565.6	1567.4	1557.4	1549.2	1553.8	1566.5	1576.4	1578.3
67.5°	1538.3	1541.1	1560.1	1576.4	1577.3	1566.5	1557.4	1561.0	1575.5	1585.5	1587.3
70°	1542.0	1544.7	1564.6	1581.9	1582.8	1571.0	1560.1	1564.6	1579.2	1591.0	1592.8
72.5°	1542.9	1546.5	1567.4	1584.6	1585.5	1571.9	1561.0	1564.6	1580.1	1593.7	1594.6
75°	1539.2	1543.8	1565.6	1583.7	1583.7	1568.3	1556.5	1560.1	1577.3	1591.9	1594.6
77.5°	1534.7	1537.4	1560.1	1578.3	1577.3	1561.0	1547.4	1552.9	1570.1	1586.4	1588.2
80°	1524.7	1528.4	1551.0	1568.3	1566.5	1548.3	1535.6	1541.1	1559.2	1576.4	1578.3
82.5°	1512.0	1515.7	1538.3	1553.8	1551.9	1532.9	1520.2	1526.6	1545.6	1563.7	1565.6
85°	1496.6	1500.2	1522.0	1536.5	1533.8	1514.8	1502.1	1507.5	1528.4	1546.5	1548.3
87.5°	1476.7	1480.3	1502.1	1514.8	1512.0	1492.1	1481.2	1488.5	1507.5	1526.6	1527.5
90°	1454.0	1458.5	1477.6	1489.4	1485.7	1467.6	1457.6	1464.9	1483.9	1502.1	1503.9
92.5°	1431.3	1433.1	1451.3	1461.2	1458.5	1442.2	1433.1	1441.3	1458.5	1476.7	1476.7
95°	1404.1	1406.8	1423.1	1431.3	1428.6	1415.0	1406.8	1415.9	1431.3	1448.5	1449.5
97.5°	1375.1	1377.8	1391.4	1399.6	1396.8	1385.1	1379.6	1388.7	1402.3	1418.6	1419.5
100°	1344.2	1346.0	1357.8	1365.1	1362.4	1353.3	1349.7	1358.7	1371.4	1386.9	1386.9
102.5°	1309.8	1311.6	1320.7	1325.2	1324.3	1317.0	1317.0	1327.0	1337.0	1351.5	1353.3
105°	1273.5	1275.3	1281.6	1284.4	1283.5	1280.7	1282.6	1292.5	1300.7	1313.4	1315.2
107.5°	1232.7	1234.5	1238.1	1239.0	1239.0	1239.0	1245.4	1254.4	1263.5	1272.6	1273.5
110°	1189.1	1190.0	1192.8	1191.9	1191.9	1193.7	1202.7	1212.7	1220.0	1229.0	1229.9



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 CATALOG NUMBER: FFX-CLB-100-727-U-VM9

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1142.0	1142.9	1144.7	1141.1	1142.0	1145.6	1157.4	1168.3	1172.8	1181.9	1181.9
115°	1092.1	1091.2	1093.0	1088.4	1087.5	1093.9	1106.6	1119.3	1122.9	1129.3	1130.2
117.5°	1037.7	1038.6	1037.7	1032.2	1031.3	1040.4	1052.2	1064.0	1068.5	1075.8	1073.9
120°	981.4	980.5	981.4	975.1	974.2	984.1	995.9	1007.7	1010.4	1016.8	1015.0
122.5°	924.3	923.4	922.5	916.1	916.1	924.3	938.8	950.6	948.8	956.0	955.1
125°	865.3	865.3	863.5	857.2	857.2	867.1	878.9	889.8	888.0	896.2	893.4
127.5°	807.3	807.3	805.5	800.0	800.0	809.1	820.0	830.8	828.1	835.4	832.7
130°	750.1	750.1	748.3	742.9	742.9	750.1	761.9	771.0	767.4	773.7	772.8
132.5°	695.7	694.8	693.9	688.4	689.4	696.6	705.7	713.8	710.2	717.5	714.7
135°	643.1	642.2	641.3	635.8	636.7	644.0	652.2	658.5	655.8	660.3	659.4
137.5°	593.2	592.3	591.4	586.9	587.8	593.2	601.4	606.8	603.2	609.5	606.8
140°	546.0	545.1	543.3	540.6	541.5	546.9	551.5	557.8	554.2	559.6	556.9
142.5°	500.7	500.7	498.9	496.2	497.1	502.5	506.1	510.7	507.0	511.6	509.8
145°	459.0	459.0	457.1	455.3	455.3	459.9	462.6	467.1	463.5	468.0	466.2
147.5°	420.9	420.9	419.1	417.2	417.2	421.8	423.6	427.2	423.6	427.2	425.4
150°	385.5	385.5	384.6	382.8	383.7	385.5	387.3	390.0	387.3	390.0	389.1
152.5°	354.7	354.7	353.7	352.8	351.9	354.7	355.6	358.3	355.6	358.3	356.5
155°	327.4	326.5	326.5	324.7	324.7	326.5	327.4	329.3	326.5	329.3	328.3
157.5°	303.0	303.0	302.0	301.1	301.1	302.0	303.0	303.9	302.0	304.8	303.0
160°	282.1	282.1	281.2	280.3	280.3	281.2	281.2	282.1	280.3	282.1	281.2
162.5°	263.9	263.9	263.0	263.0	262.1	263.0	263.9	263.9	263.0	263.9	263.0
165°	249.4	249.4	248.5	247.6	247.6	248.5	248.5	249.4	247.6	248.5	248.5
167.5°	235.8	235.8	235.8	234.9	234.0	234.9	234.9	234.9	234.0	234.9	234.9
170°	225.9	225.9	225.9	224.9	224.0	224.9	224.9	224.9	224.0	224.9	224.9
172.5°	217.7	217.7	217.7	216.8	216.8	216.8	216.8	216.8	216.8	216.8	216.8
175°	212.2	212.2	212.2	212.2	211.3	212.2	212.2	212.2	212.2	212.2	211.3
177.5°	209.5	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6
180°	207.7	207.7	207.7	207.7	207.7	207.7	207.7	207.7	207.7	207.7	207.7



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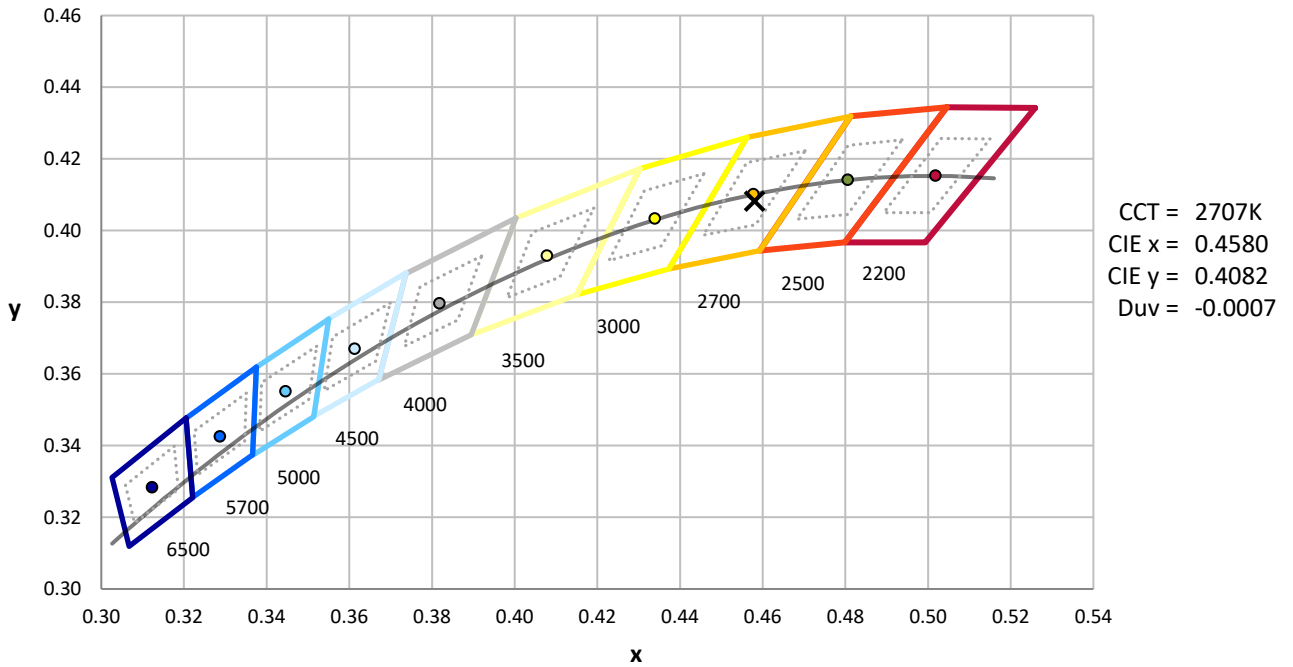
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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**



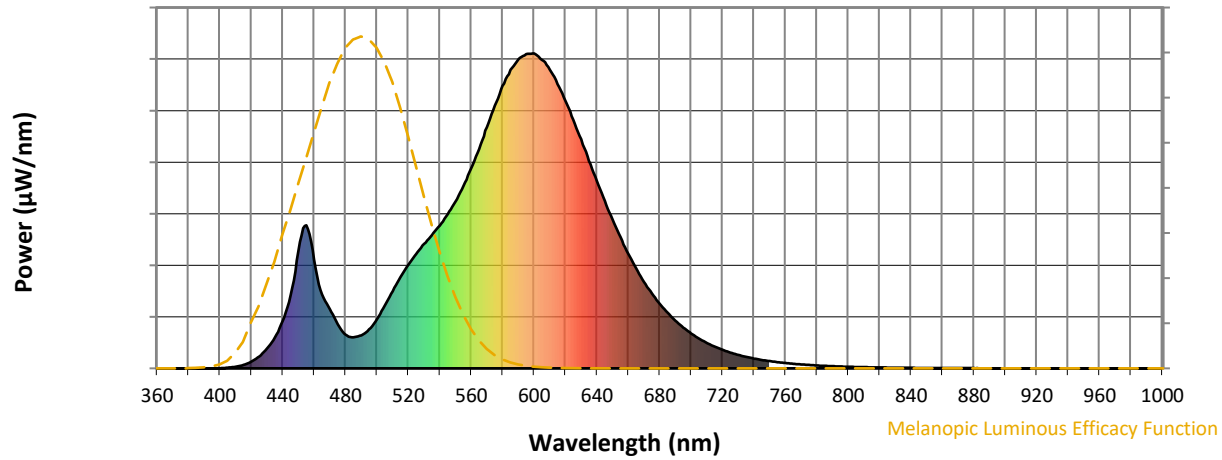
**Scotopic Lumens: NR**

**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

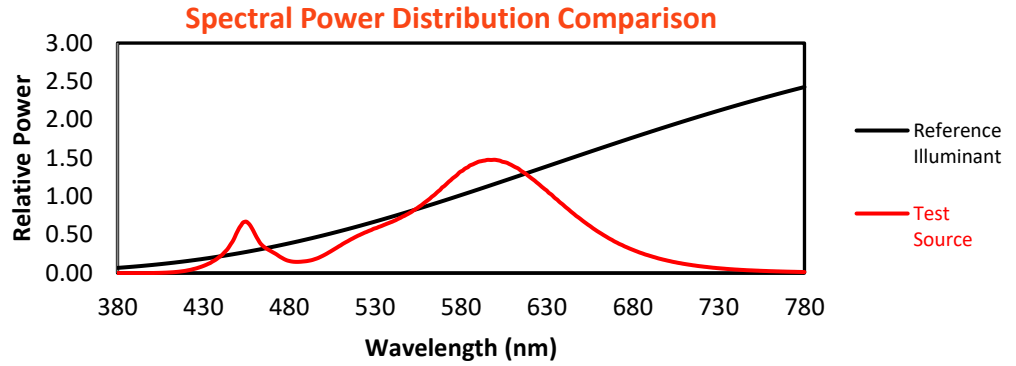
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	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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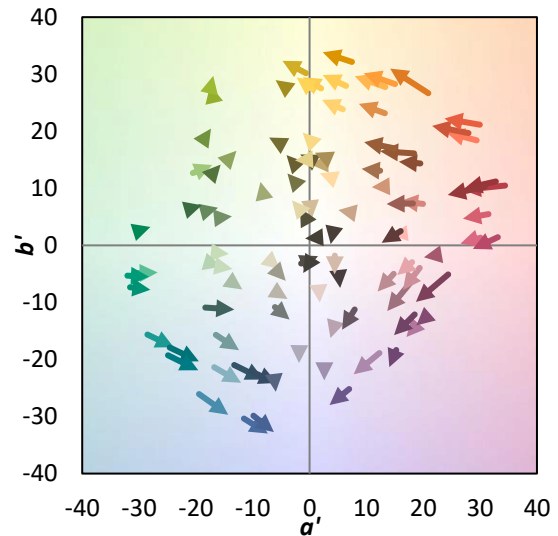
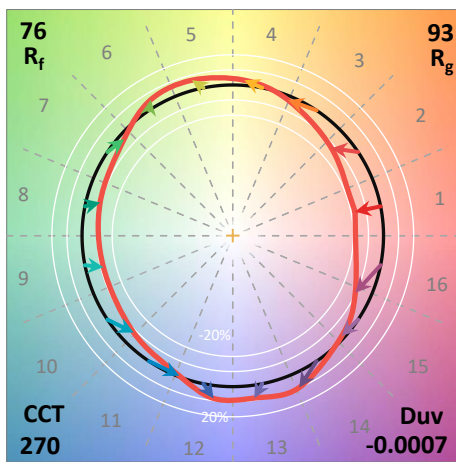
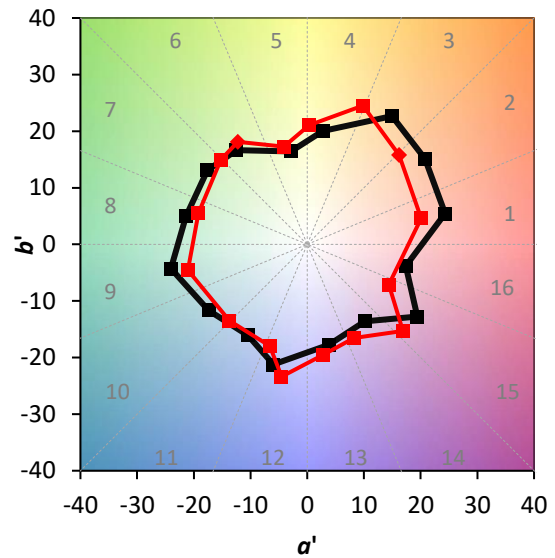
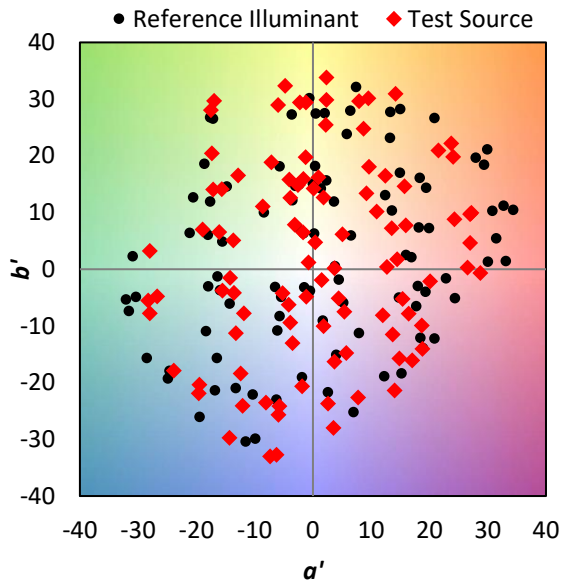
TM-30-18

**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 ( $R_{f,i}$ )**

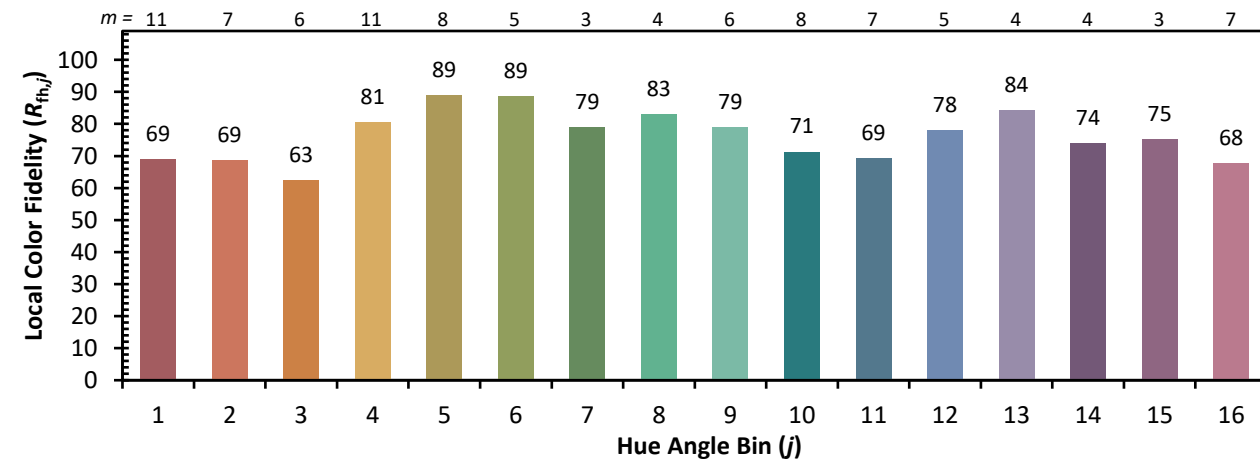
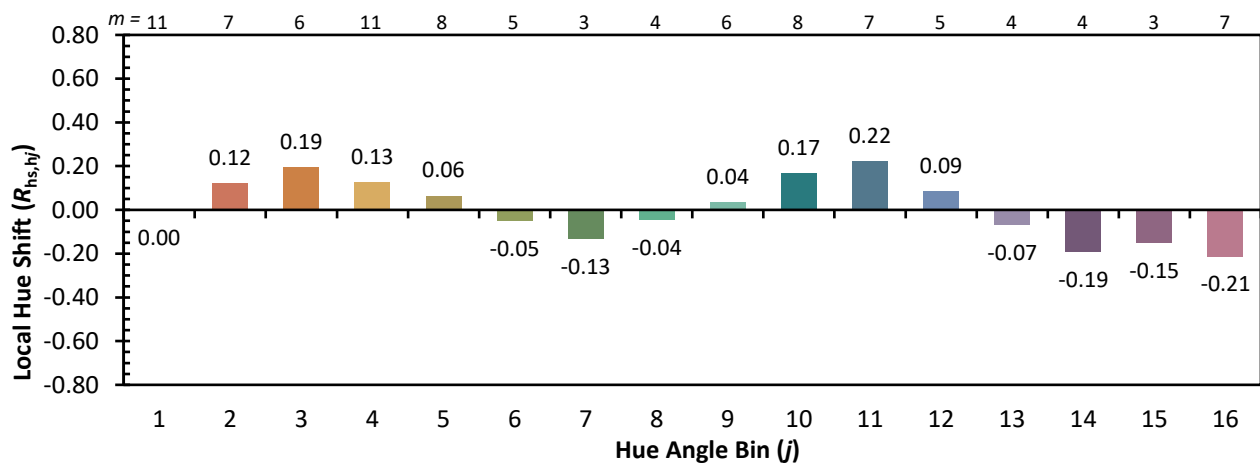
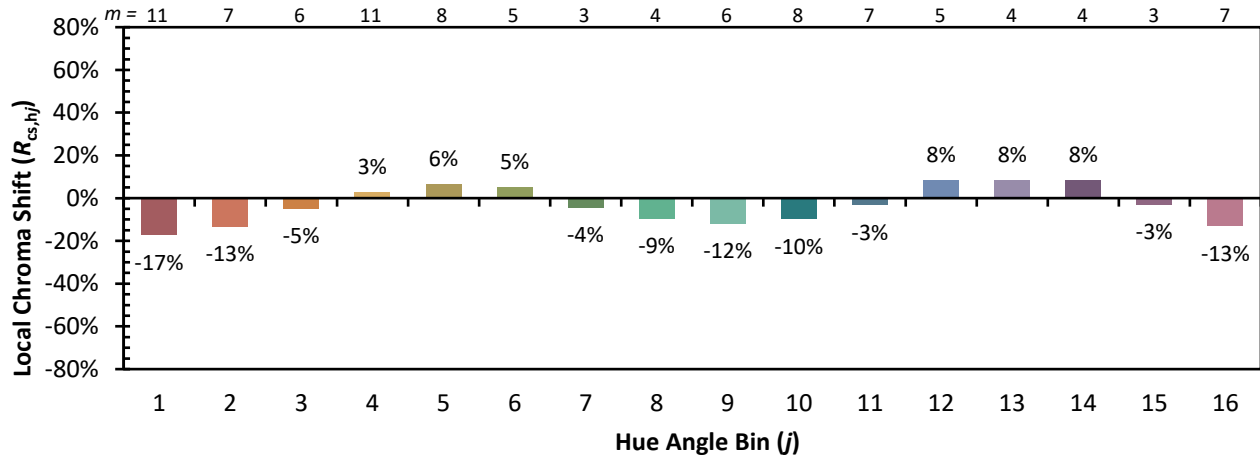
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CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 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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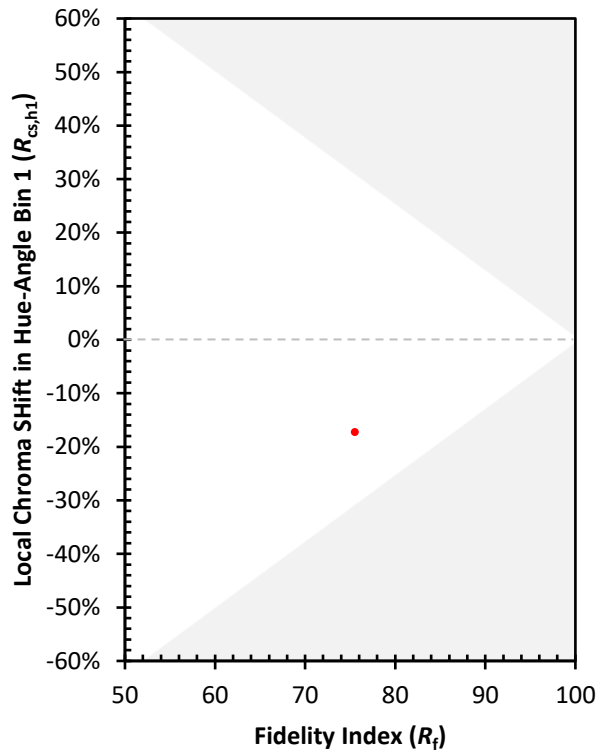
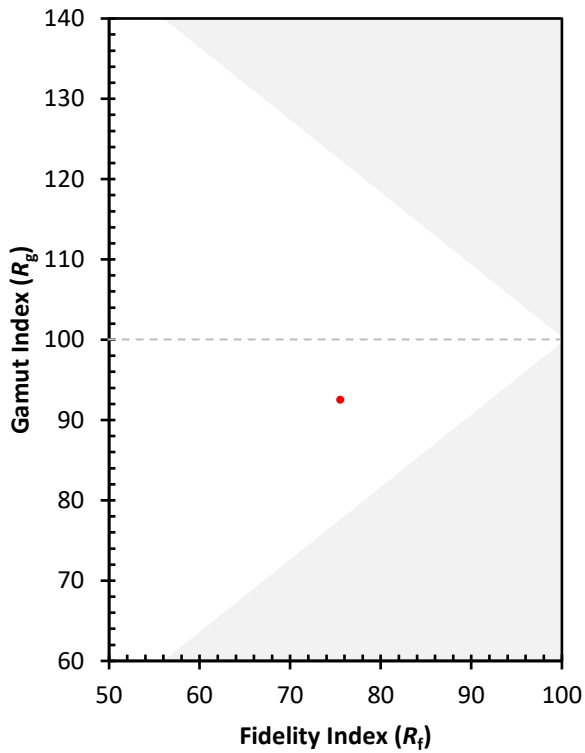
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)