

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: P856363

Luminaire Tested: **FFX-CLB-90-750-U-VM8**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856363
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-90-750-U-VM8
Description: FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

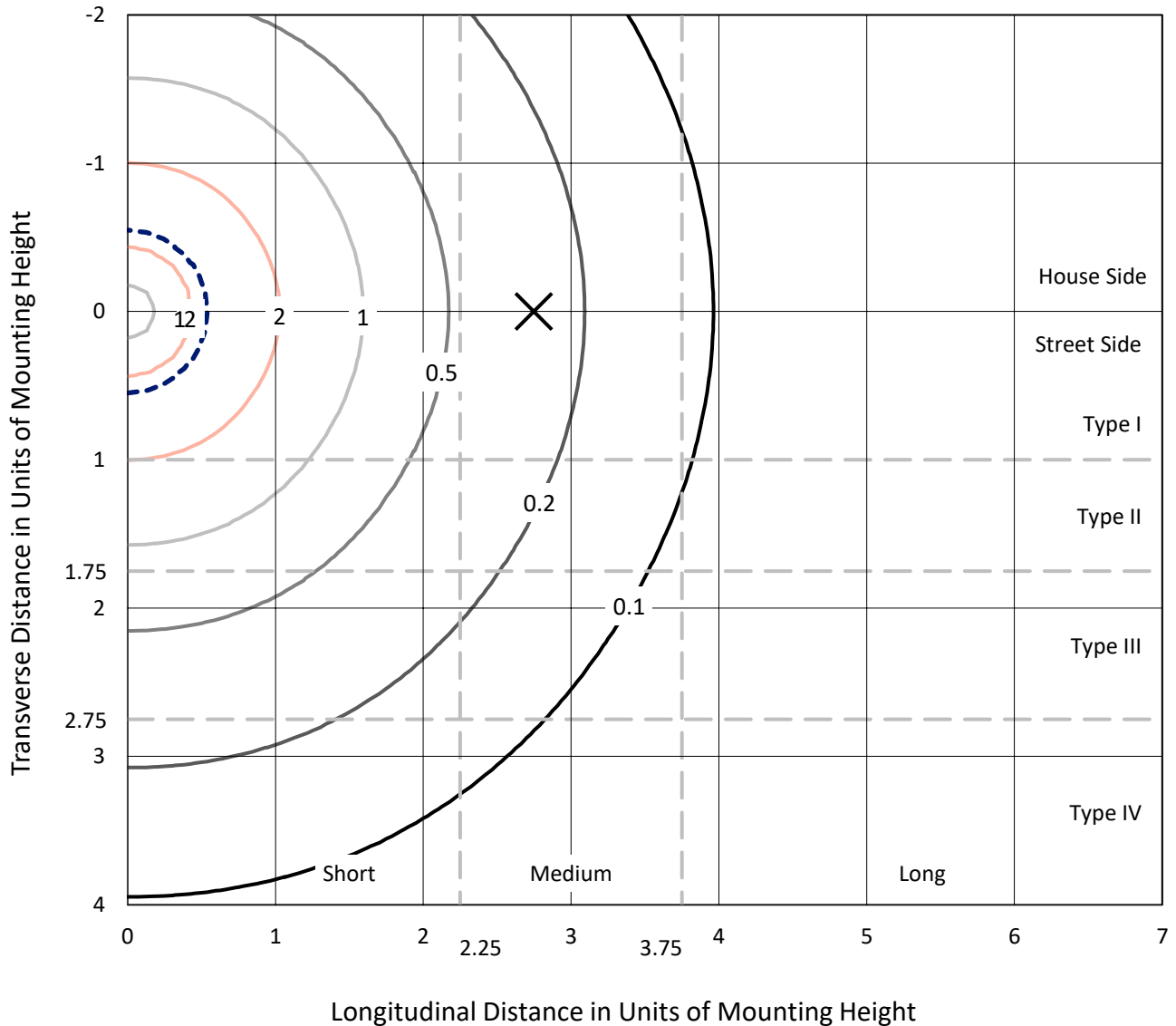
Lumens per Lamp: N/A
Luminaire Lumens: 14254 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G5

Input Watts (W): 90.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.6%%
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

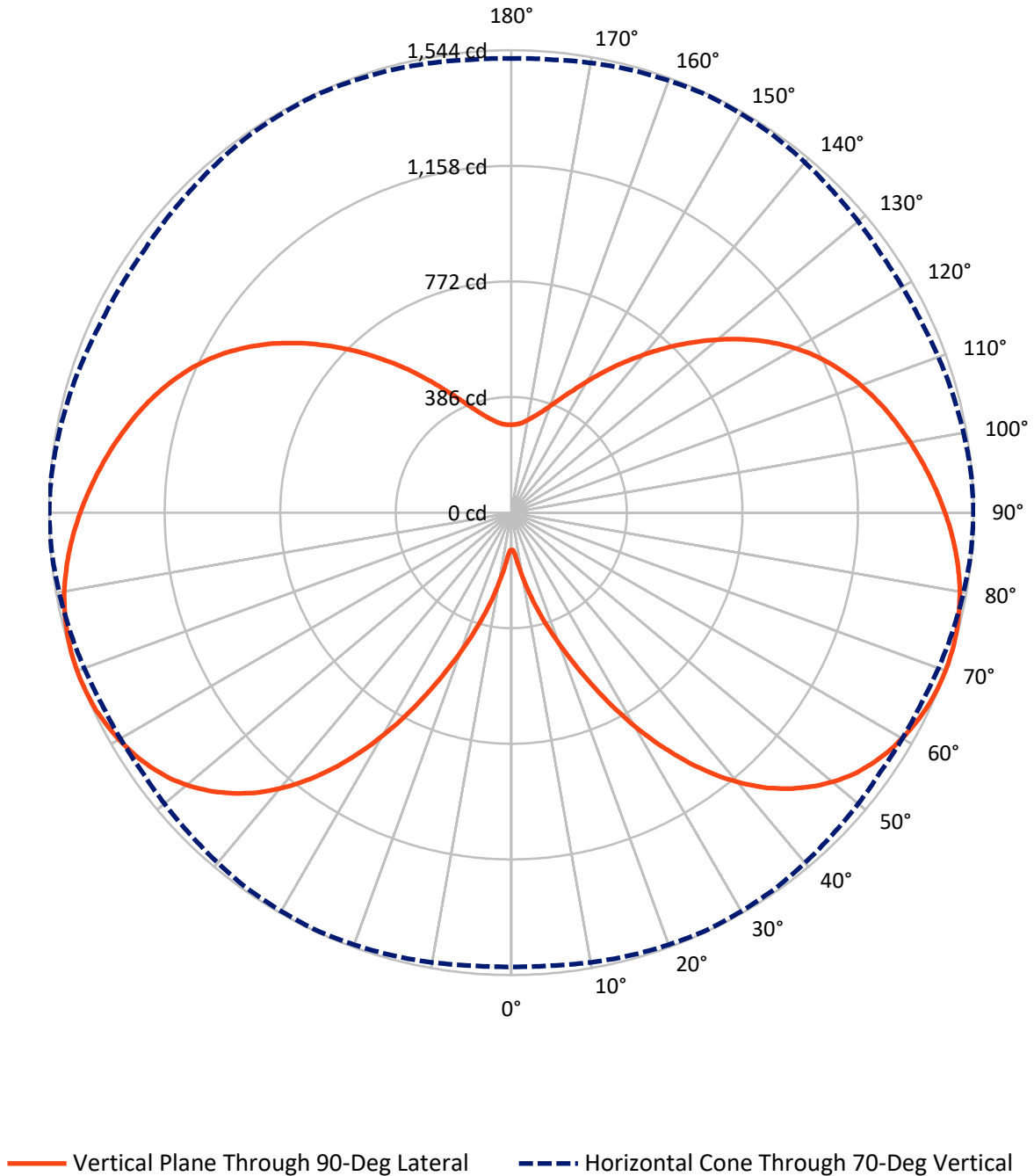
× Max cd
 - - - 1/2 Max cd



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



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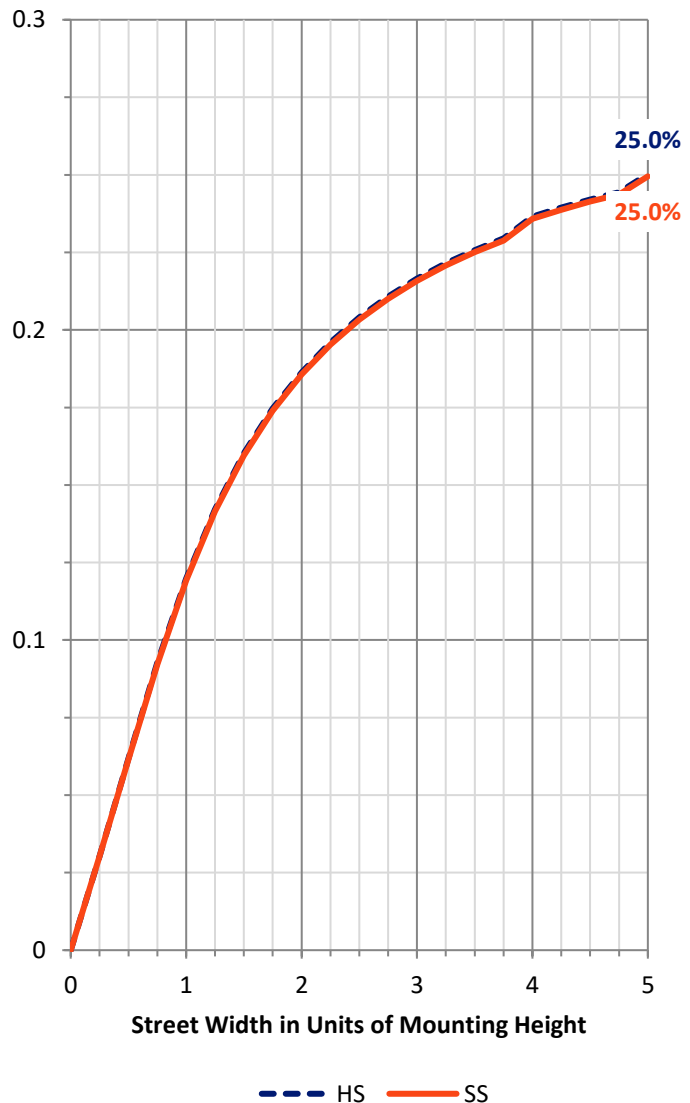
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4036.6	3090.4	7127.0
	% Fixture	28.3	21.7	50.0
Street Side	Lumens	4036.6	3090.4	7127.0
	% Fixture	28.3	21.7	50.0
Total	Lumens	8073.2	6180.8	14254.0
	% Fixture	56.6	43.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.8	0.1
10°-20°	102.0	0.7
20°-30°	304.5	2.1
30°-40°	636.7	4.5
40°-50°	999.2	7.0
50°-60°	1297.0	9.1
60°-70°	1501.3	10.5
70°-80°	1607.2	11.3
80°-90°	1608.5	11.3
90°-100°	1517.0	10.6
100°-110°	1357.3	9.5
110°-120°	1141.3	8.0
120°-130°	875.4	6.1
130°-140°	598.9	4.2
140°-150°	365.4	2.6
150°-160°	199.8	1.4
160°-170°	96.8	0.7
170°-180°	28.8	0.2
0°-90°	8073.2	56.6
0°-180°	14254.0	100.0

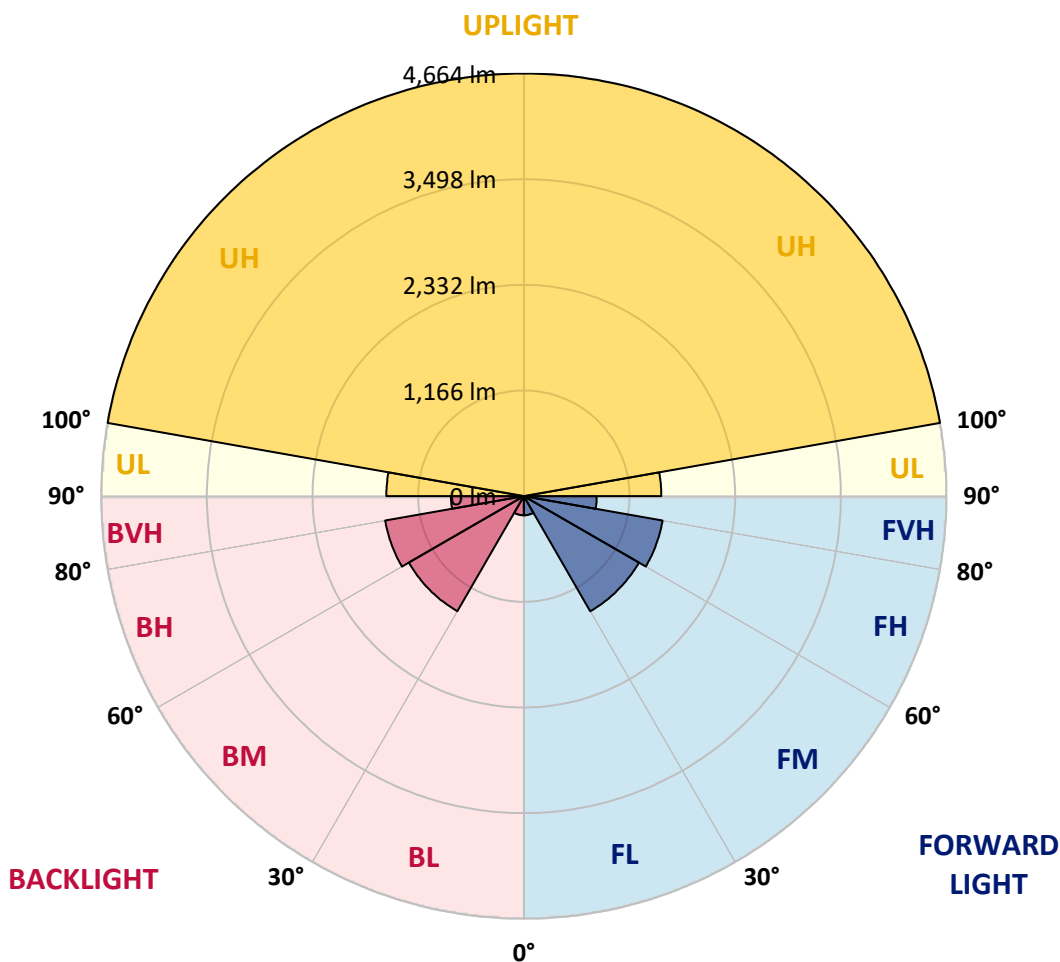


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.6	1.5			
FM (30°-60°)	1466.4	10.3			
FH (60°-80°)	1554.3	10.9			G1/1800
FVH (80°-90°)	804.3	5.6			G5
BL (0°-30°)	211.6	1.5	B1/500		
BM (30°-60°)	1466.4	10.3	B2/2500		
BH (60°-80°)	1554.3	10.9	B3/2500		G1/1800
BVH (80°-90°)	804.3	5.6			G5
UL (90°-100°)	1517.0	10.6		U5	
UH (100°-180°)	4663.8	32.7		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°	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2
2.5°	130.6	130.6	129.7	129.7	128.8	127.9	127.9	127.9	127.0	127.0	126.1
5°	148.9	148.0	148.0	147.1	148.0	147.1	147.1	147.1	147.1	145.2	145.2
7.5°	184.5	183.6	183.6	182.7	184.5	182.7	182.7	183.6	183.6	182.7	182.7
10°	231.1	230.2	230.2	228.4	230.2	229.3	229.3	227.5	228.4	227.5	228.4
12.5°	286.8	284.1	284.1	283.2	285.0	284.1	283.2	281.4	283.2	282.3	282.3
15°	344.4	345.3	344.4	343.5	345.3	345.3	344.4	342.6	344.4	342.6	343.5
17.5°	408.3	408.3	408.3	405.6	408.3	409.3	408.3	406.5	407.4	408.3	408.3
20°	477.8	477.8	478.7	476.9	481.4	478.7	477.8	476.9	477.8	478.7	479.6
22.5°	554.5	554.5	555.4	554.5	557.2	557.2	556.3	556.3	557.2	559.1	559.1
25°	639.5	640.4	640.4	637.6	644.0	645.9	644.0	644.0	645.9	648.6	648.6
27.5°	727.2	730.8	729.0	729.0	737.2	738.1	737.2	738.1	740.9	743.6	744.5
30°	817.6	820.3	824.0	821.3	830.4	831.3	832.2	833.1	836.8	841.4	841.4
32.5°	908.0	910.8	912.6	912.6	924.5	923.6	922.7	926.3	931.8	933.6	936.4
35°	998.5	998.5	1000.3	1001.2	1013.1	1012.2	1014.0	1016.7	1022.2	1025.9	1027.7
37.5°	1079.8	1078.0	1082.5	1084.3	1093.5	1094.4	1095.3	1099.9	1106.3	1110.8	1112.7
40°	1153.8	1151.9	1157.4	1160.2	1168.4	1168.4	1170.2	1175.7	1183.0	1187.6	1188.5
42.5°	1219.5	1218.6	1224.1	1227.8	1236.0	1235.1	1234.2	1241.5	1249.7	1255.2	1257.0
45°	1276.2	1275.3	1282.6	1287.1	1293.5	1291.7	1291.7	1298.1	1307.2	1313.6	1314.6
47.5°	1324.6	1324.6	1332.8	1338.3	1343.8	1341.0	1339.2	1345.6	1354.7	1363.9	1364.8
50°	1367.5	1366.6	1375.8	1382.2	1386.7	1383.1	1380.3	1386.7	1396.8	1405.9	1407.7
52.5°	1401.3	1403.2	1412.3	1420.5	1424.2	1418.7	1414.1	1420.5	1431.5	1441.5	1443.4
55°	1430.6	1431.5	1441.5	1451.6	1453.4	1446.1	1440.6	1446.1	1458.0	1468.9	1470.8
57.5°	1453.4	1455.2	1467.1	1476.2	1477.2	1468.9	1462.5	1467.1	1479.9	1490.9	1493.6
60°	1473.5	1475.3	1486.3	1496.3	1497.3	1487.2	1479.0	1482.6	1496.3	1509.1	1511.0
62.5°	1489.0	1491.8	1503.7	1512.8	1512.8	1500.9	1490.9	1494.5	1509.1	1522.8	1524.7
65°	1501.8	1504.6	1516.4	1525.6	1524.7	1511.0	1500.0	1503.7	1519.2	1532.9	1535.6
67.5°	1511.0	1512.8	1525.6	1534.7	1531.1	1516.4	1505.5	1508.2	1524.7	1538.4	1541.1
70°	1516.4	1518.3	1531.1	1539.3	1533.8	1518.3	1506.4	1510.0	1526.5	1541.1	1543.8
72.5°	1519.2	1521.9	1533.8	1541.1	1534.7	1517.4	1504.6	1509.1	1525.6	1541.1	1542.9
75°	1518.3	1520.1	1532.0	1538.4	1530.1	1513.7	1500.0	1504.6	1521.9	1535.6	1538.4
77.5°	1513.7	1515.5	1526.5	1532.0	1521.9	1505.5	1492.7	1497.3	1513.7	1527.4	1530.1
80°	1506.4	1508.2	1518.3	1521.9	1511.9	1495.4	1483.6	1488.1	1503.7	1516.4	1519.2
82.5°	1494.5	1497.3	1506.4	1508.2	1497.3	1482.6	1470.8	1475.3	1489.9	1501.8	1503.7
85°	1479.9	1481.7	1489.9	1490.9	1479.9	1467.1	1457.1	1461.6	1474.4	1483.6	1486.3
87.5°	1463.5	1463.5	1471.7	1471.7	1459.8	1447.9	1440.6	1444.3	1456.1	1463.5	1466.2
90°	1443.4	1444.3	1449.8	1448.8	1437.9	1427.8	1421.4	1426.0	1436.1	1442.4	1444.3
92.5°	1421.4	1422.3	1426.9	1425.1	1414.1	1405.9	1400.4	1405.9	1415.0	1419.6	1421.4
95°	1397.7	1398.6	1402.3	1398.6	1388.5	1382.2	1377.6	1384.0	1391.3	1395.9	1397.7
97.5°	1373.0	1373.9	1376.7	1373.0	1362.1	1356.6	1354.7	1360.2	1367.5	1371.2	1373.0
100°	1347.4	1347.4	1349.3	1343.8	1334.7	1330.1	1329.2	1335.6	1342.9	1346.5	1348.4
102.5°	1319.1	1320.0	1320.0	1314.6	1305.4	1302.7	1302.7	1310.0	1317.3	1320.0	1321.9
105°	1289.9	1289.9	1289.9	1285.3	1275.3	1273.4	1274.4	1281.7	1289.9	1293.5	1295.4
107.5°	1257.9	1258.8	1257.0	1252.4	1244.2	1242.4	1244.2	1254.3	1261.6	1265.2	1267.0
110°	1224.1	1225.0	1224.1	1218.6	1211.3	1210.4	1213.2	1223.2	1230.5	1234.2	1236.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1188.5	1189.4	1188.5	1183.9	1176.6	1176.6	1180.3	1190.3	1198.5	1201.3	1204.0
115°	1151.0	1151.9	1150.1	1146.5	1139.2	1141.0	1144.6	1154.7	1162.9	1165.6	1169.3
117.5°	1110.8	1111.8	1110.8	1106.3	1099.9	1101.7	1107.2	1117.2	1124.5	1127.3	1130.9
120°	1067.0	1067.0	1067.0	1062.4	1056.0	1059.7	1065.2	1076.1	1082.5	1084.3	1088.0
122.5°	1022.2	1020.4	1020.4	1017.7	1010.4	1014.9	1020.4	1031.4	1037.8	1038.7	1041.4
125°	972.9	973.8	971.1	969.2	962.8	968.3	972.9	983.9	989.3	990.3	993.0
127.5°	919.9	922.7	919.9	917.2	912.6	918.1	923.6	933.6	938.2	939.1	940.9
130°	870.6	870.6	867.8	866.0	861.4	866.9	872.4	881.5	886.1	886.1	887.9
132.5°	821.3	818.5	817.6	815.8	810.3	816.7	820.3	829.5	833.1	832.2	834.0
135°	767.4	767.4	764.6	763.7	759.1	765.5	769.2	777.4	780.1	779.2	781.1
137.5°	717.1	717.1	715.3	713.5	710.7	716.2	719.9	726.2	729.0	726.2	729.0
140°	667.8	667.8	666.9	665.0	662.3	667.8	670.5	676.0	678.7	676.0	677.8
142.5°	622.1	620.3	619.4	618.5	614.8	620.3	622.1	627.6	628.5	626.7	629.4
145°	573.7	574.6	573.7	572.8	570.0	574.6	576.4	581.0	581.9	580.1	582.8
147.5°	533.5	530.8	531.7	530.8	528.0	532.6	533.5	536.2	538.1	536.2	538.1
150°	493.3	491.5	491.5	490.6	488.7	492.4	493.3	496.0	497.0	495.1	497.0
152.5°	457.7	456.8	456.8	455.8	454.0	456.8	457.7	459.5	460.4	458.6	459.5
155°	425.7	424.8	424.8	423.9	422.0	424.8	424.8	426.6	427.5	426.6	427.5
157.5°	397.4	396.5	396.5	396.5	394.6	396.5	396.5	398.3	398.3	397.4	398.3
160°	374.5	372.7	373.6	372.7	370.9	372.7	372.7	373.6	373.6	373.6	373.6
162.5°	353.5	353.5	353.5	352.6	351.7	352.6	352.6	353.5	353.5	353.5	352.6
165°	337.1	337.1	337.1	336.2	335.3	336.2	336.2	336.2	336.2	336.2	336.2
167.5°	323.4	322.5	323.4	322.5	321.6	322.5	322.5	322.5	322.5	322.5	322.5
170°	311.5	311.5	311.5	311.5	310.6	311.5	311.5	311.5	311.5	311.5	311.5
172.5°	304.2	303.3	303.3	303.3	302.4	303.3	302.4	303.3	302.4	303.3	302.4
175°	297.8	297.8	297.8	297.8	296.9	296.9	296.9	296.9	296.9	296.9	296.9
177.5°	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2
180°	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

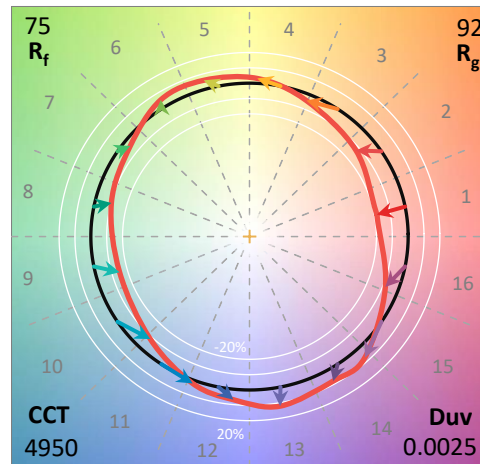
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-5
 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-100-750-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 4950
 CIE u': 0.2102
 CIE v': 0.4882
 Duv: 0.0025
 CIE x: 0.3471
 CIE y: 0.3583
 CIE z: 0.2946
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 571
 Purity: 11.64963
 Rf: 74.8
 Rg: 92.4

CRI (Ra):	73.0		
R1:	69.1	R9:	-35.4
R2:	80.1	R10:	51.9
R3:	87.3	R11:	66.1
R4:	70.6	R12:	40.1
R5:	69.4	R13:	71.5
R6:	71.2	R14:	93.0
R7:	82.5	R15:	62.2
R8:	53.6		



Test Conditions

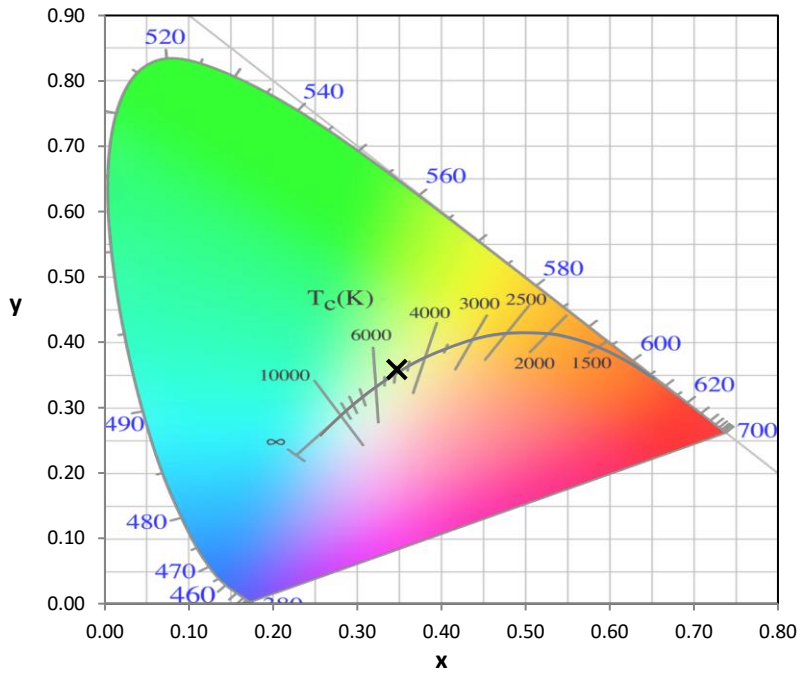
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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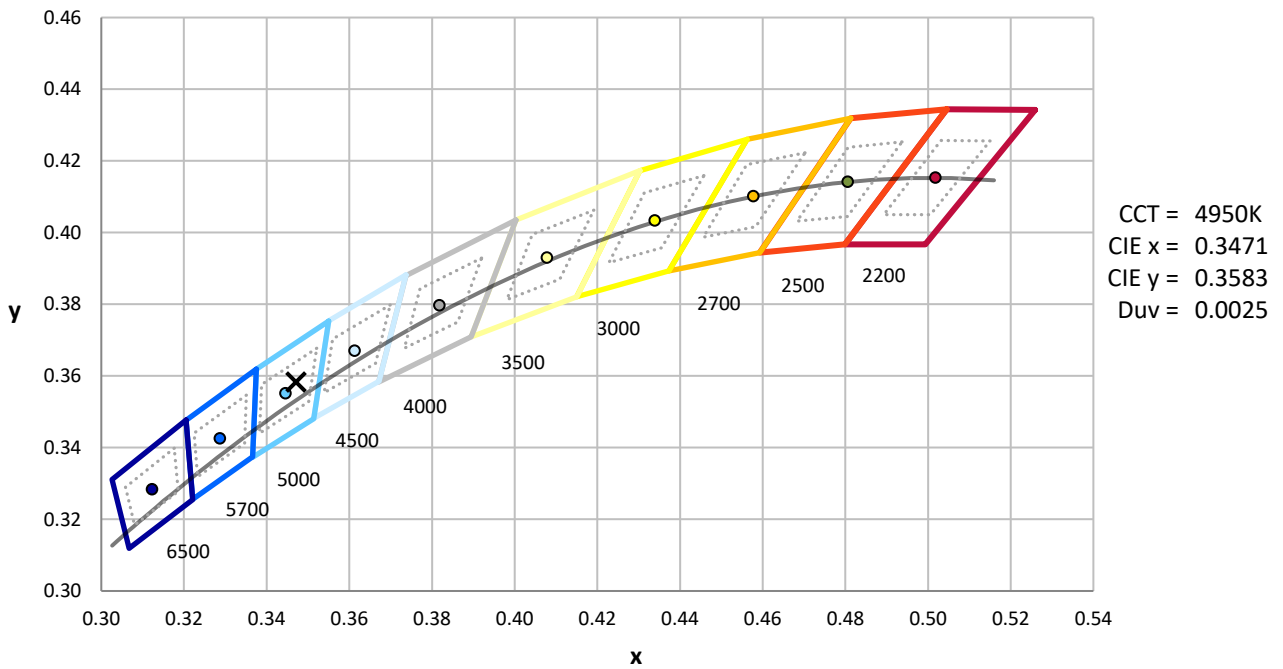
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



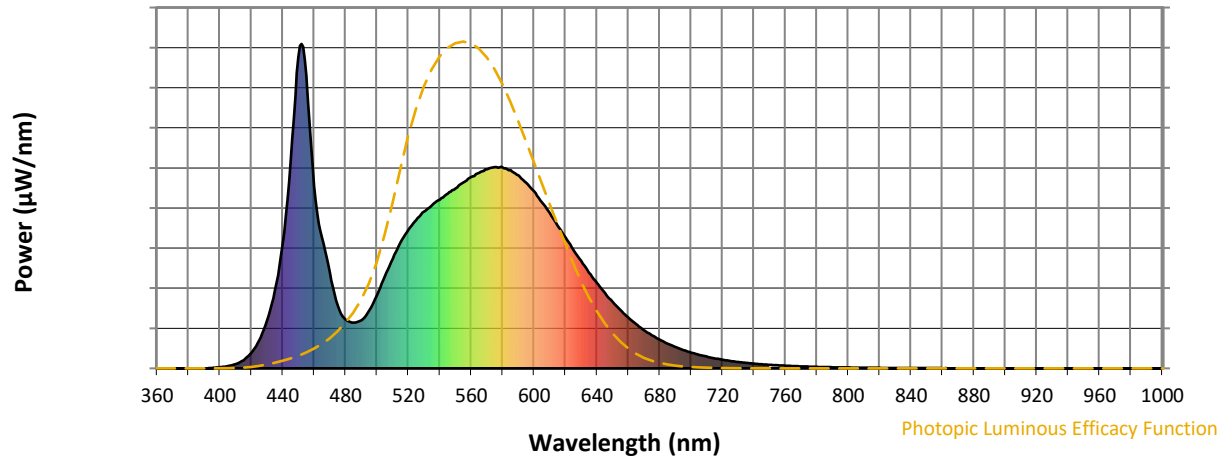
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

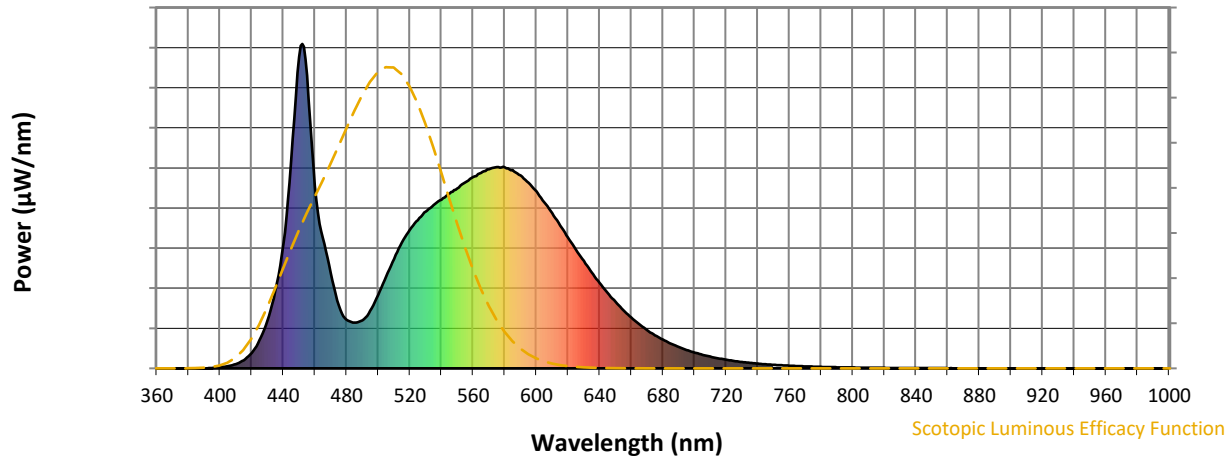


Photopic Lumens: NR

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.8

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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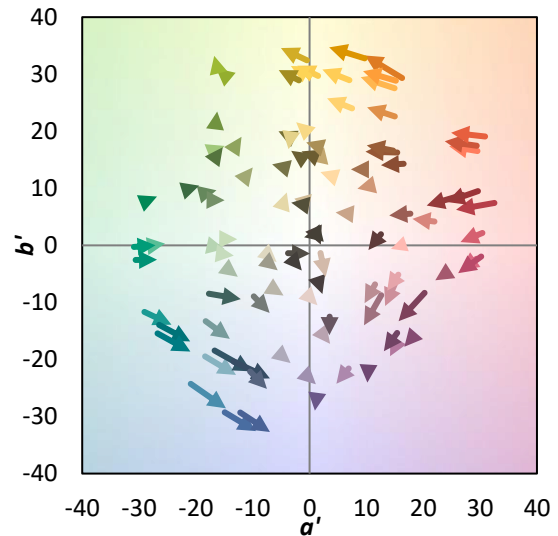
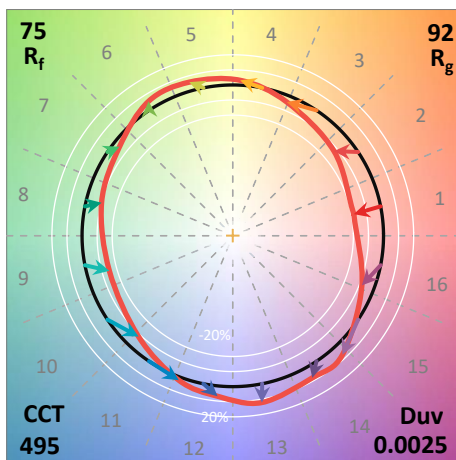
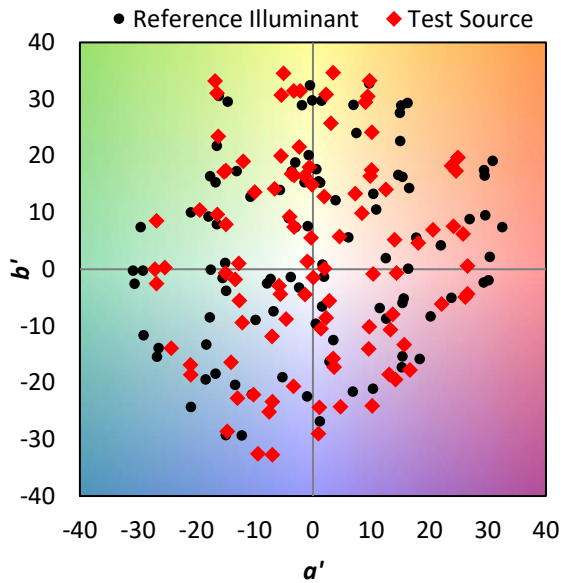
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Summary

$R_f = 74.8$
 $R_g = 92.4$
 CIE $R_a = 73.0$
 $R_g = -35.4$



Color Vector Graphics

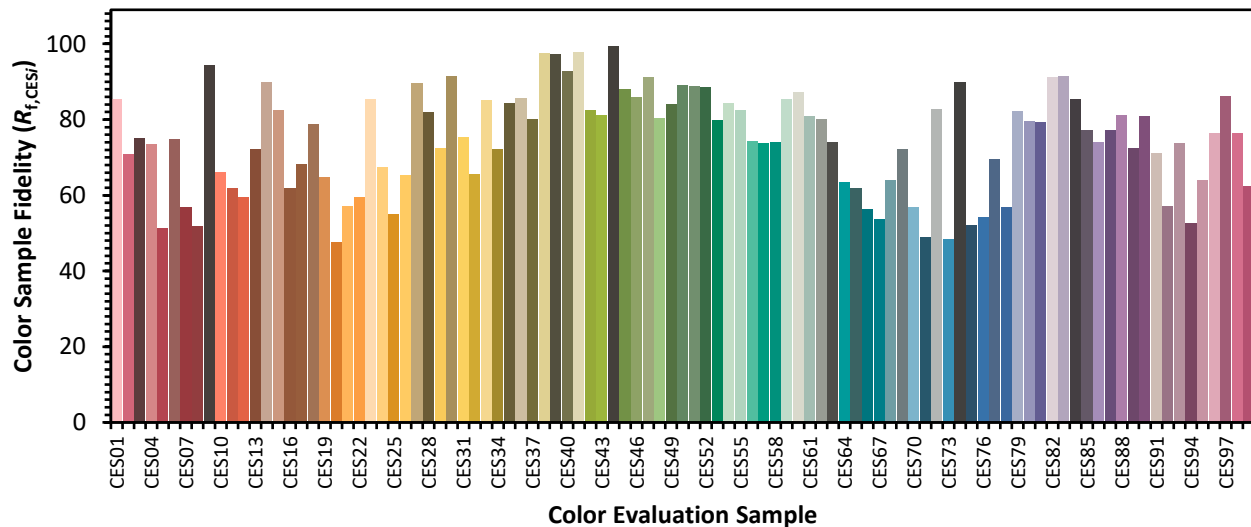


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Individual Sample Fidelity Index ($R_{f,i}$)

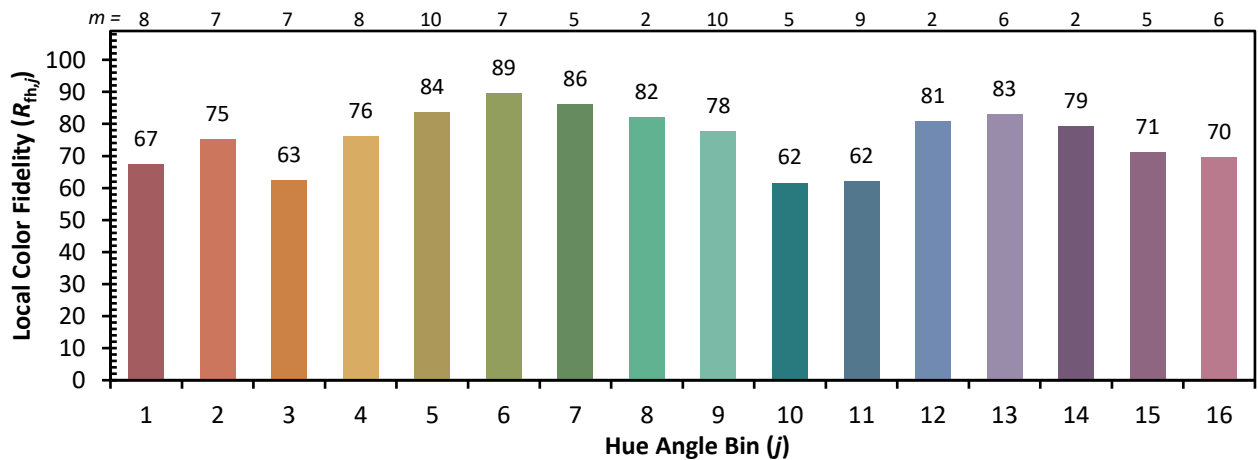
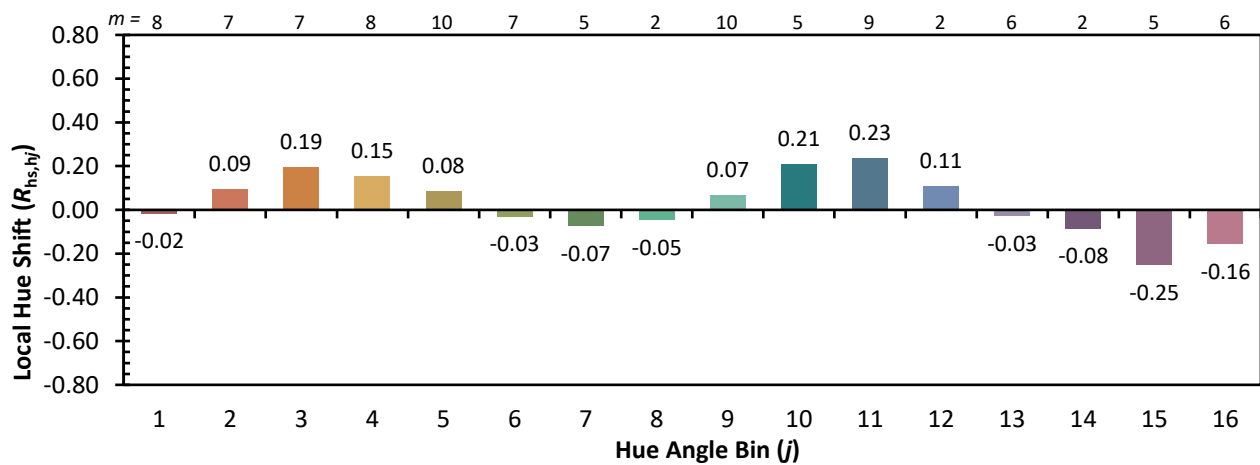
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CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 91
CES08 = 38	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 72	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 84	CES60 = 87	CES85 = 77
CES11 = 56	CES36 = 86	CES61 = 81	CES86 = 74
CES12 = 62	CES37 = 80	CES62 = 80	CES87 = 77
CES13 = 41	CES38 = 98	CES63 = 74	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 93	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 57
CES18 = 55	CES43 = 81	CES68 = 64	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 53
CES20 = 64	CES45 = 88	CES70 = 57	CES95 = 64
CES21 = 85	CES46 = 86	CES71 = 49	CES96 = 76
CES22 = 77	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 48	CES98 = 77
CES24 = 90	CES49 = 84	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 52	



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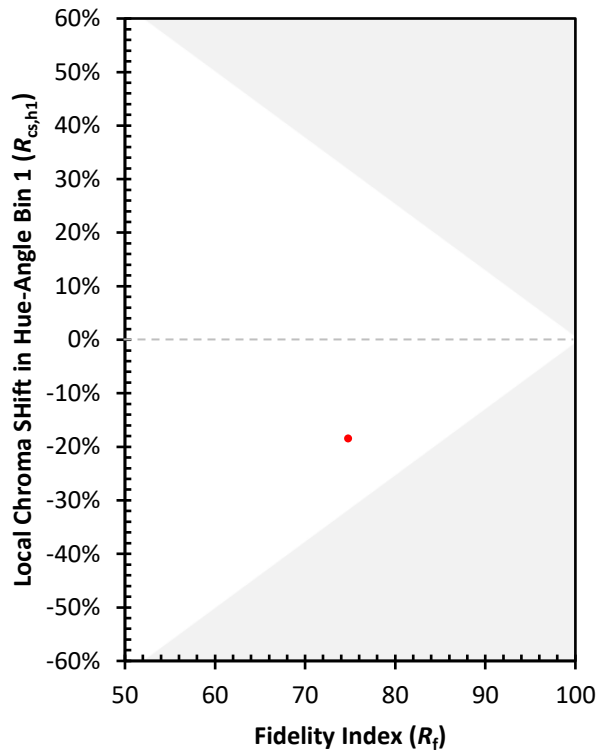
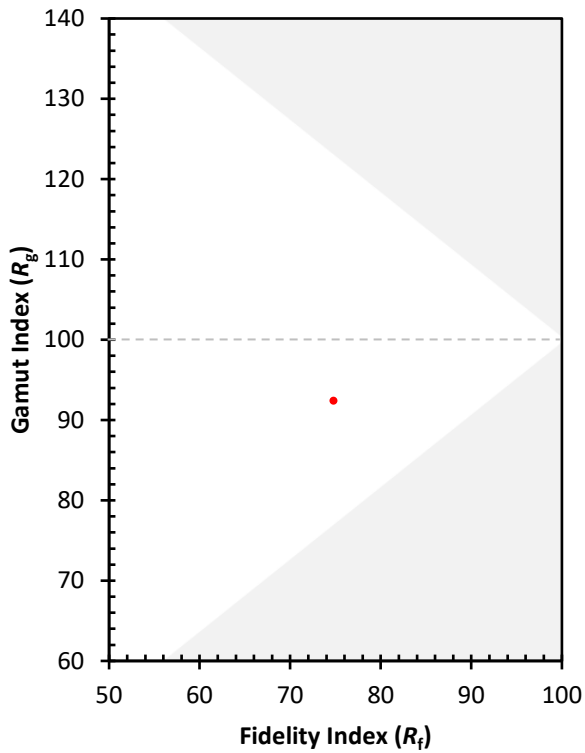
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)