

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: P856246

Luminaire Tested: **FFX-CLB-90-727-U-PG**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856246
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-90-727-U-PG
Description: FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

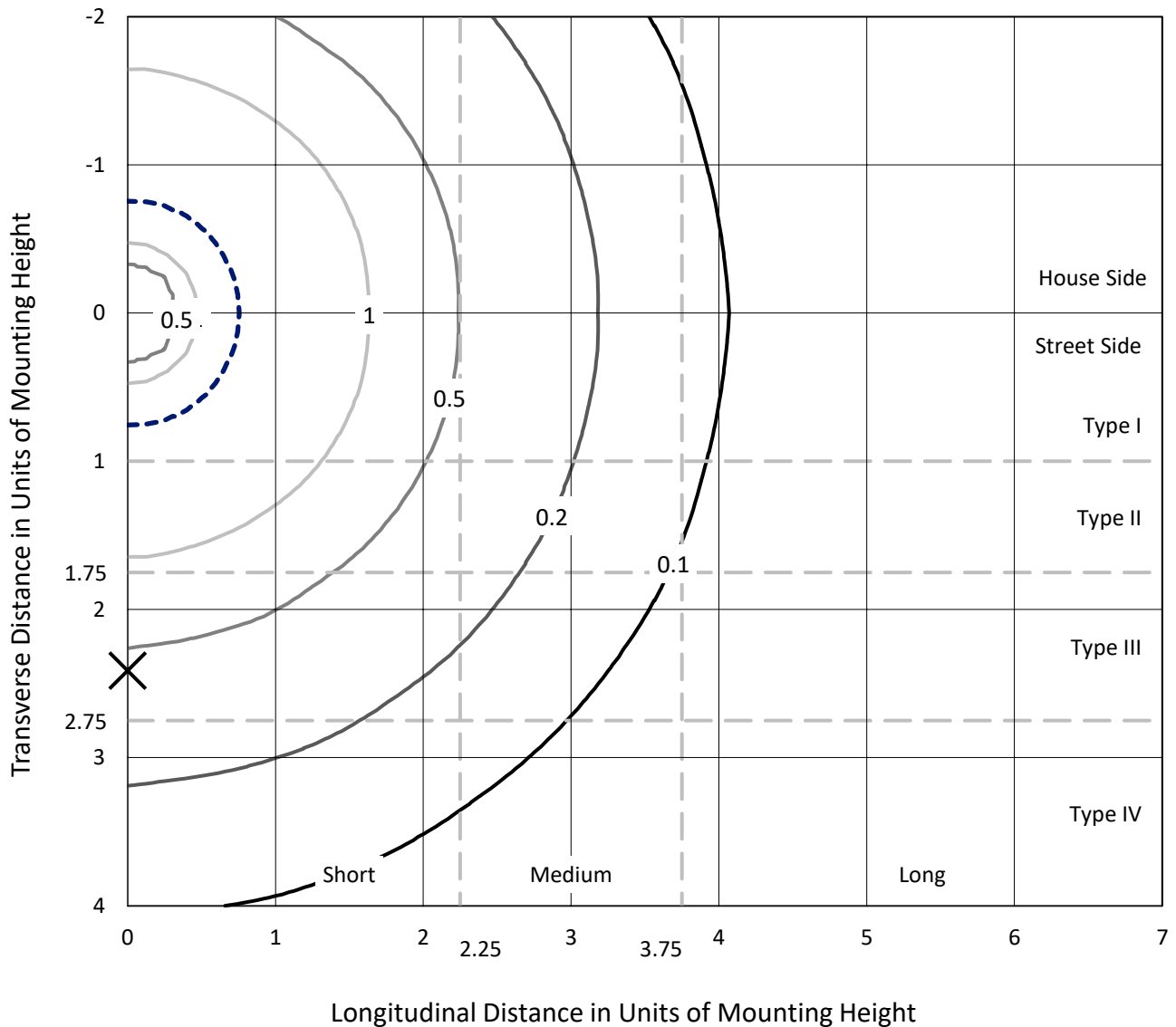
Lumens per Lamp: N/A
Luminaire Lumens: 13473.4 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1.5')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G5

Input Watts (W): 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

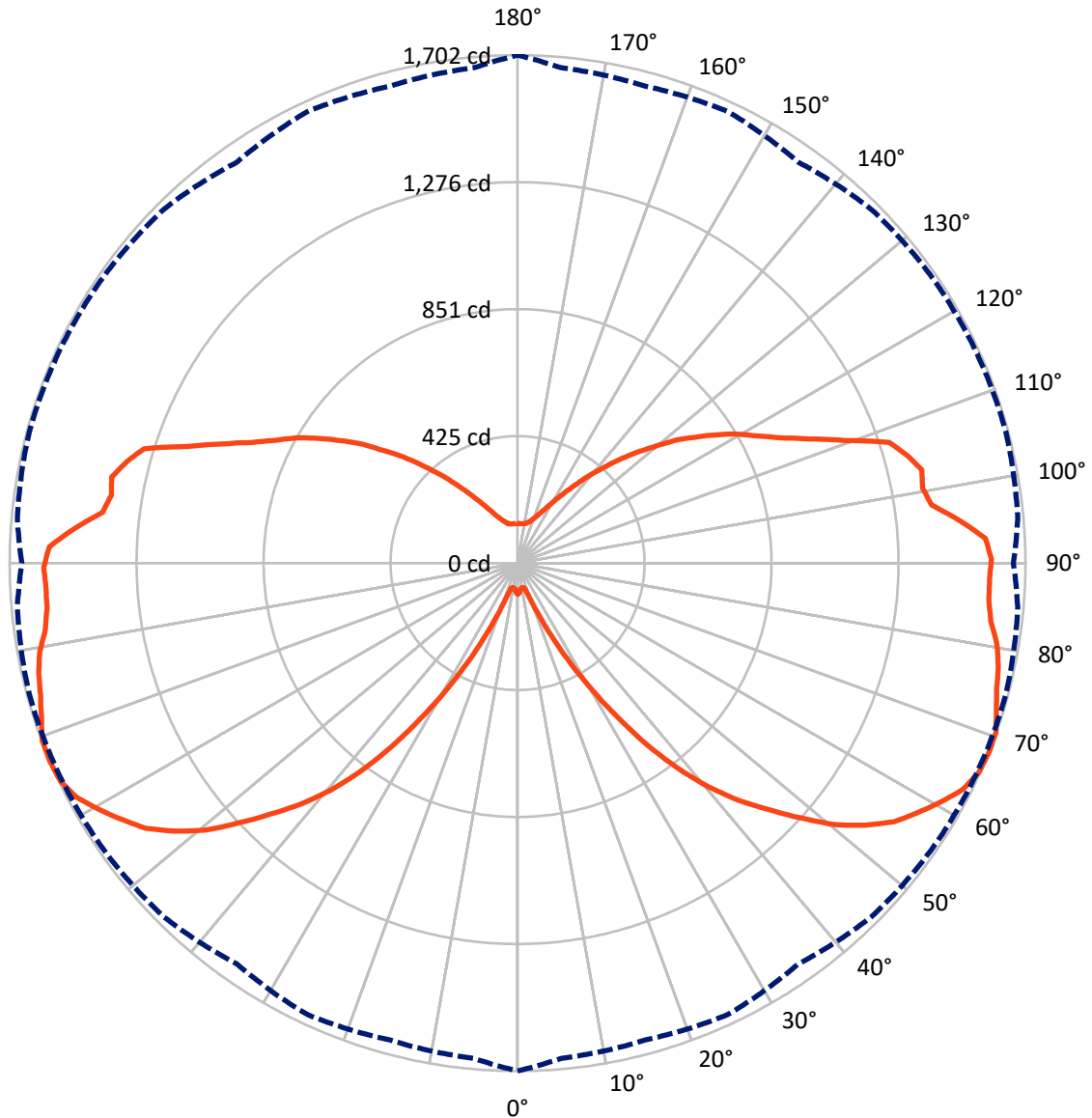
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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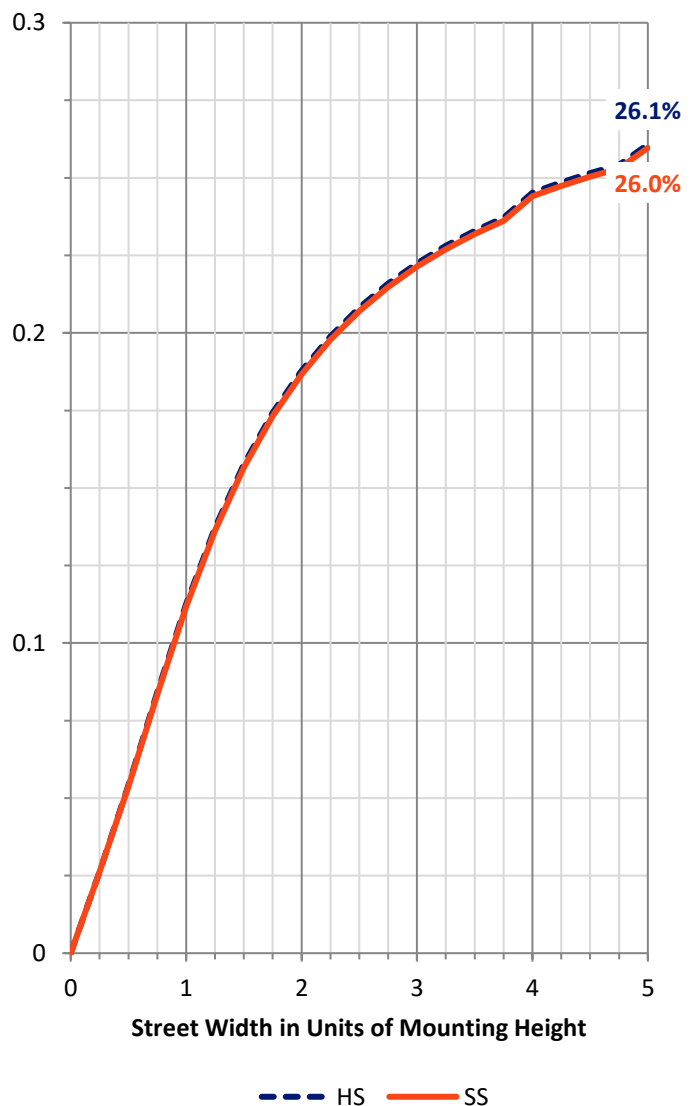
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4019.4	2717.3	6736.7
	% Fixture	29.8	20.2	50.0
Street Side	Lumens	4019.4	2717.3	6736.7
	% Fixture	29.8	20.2	50.0
Total	Lumens	8038.8	5434.6	13473.4
	% Fixture	59.7	40.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.1
10°-20°	28.8	0.2
20°-30°	143.9	1.1
30°-40°	472.8	3.5
40°-50°	914.4	6.8
50°-60°	1353.1	10.0
60°-70°	1645.1	12.2
70°-80°	1736.7	12.9
80°-90°	1735.4	12.9
90°-100°	1623.4	12.0
100°-110°	1444.2	10.7
110°-120°	987.8	7.3
120°-130°	663.4	4.9
130°-140°	385.3	2.9
140°-150°	189.7	1.4
150°-160°	87.6	0.7
160°-170°	40.5	0.3
170°-180°	12.7	0.1
0°-90°	8038.8	59.7
0°-180°	13473.4	100.0



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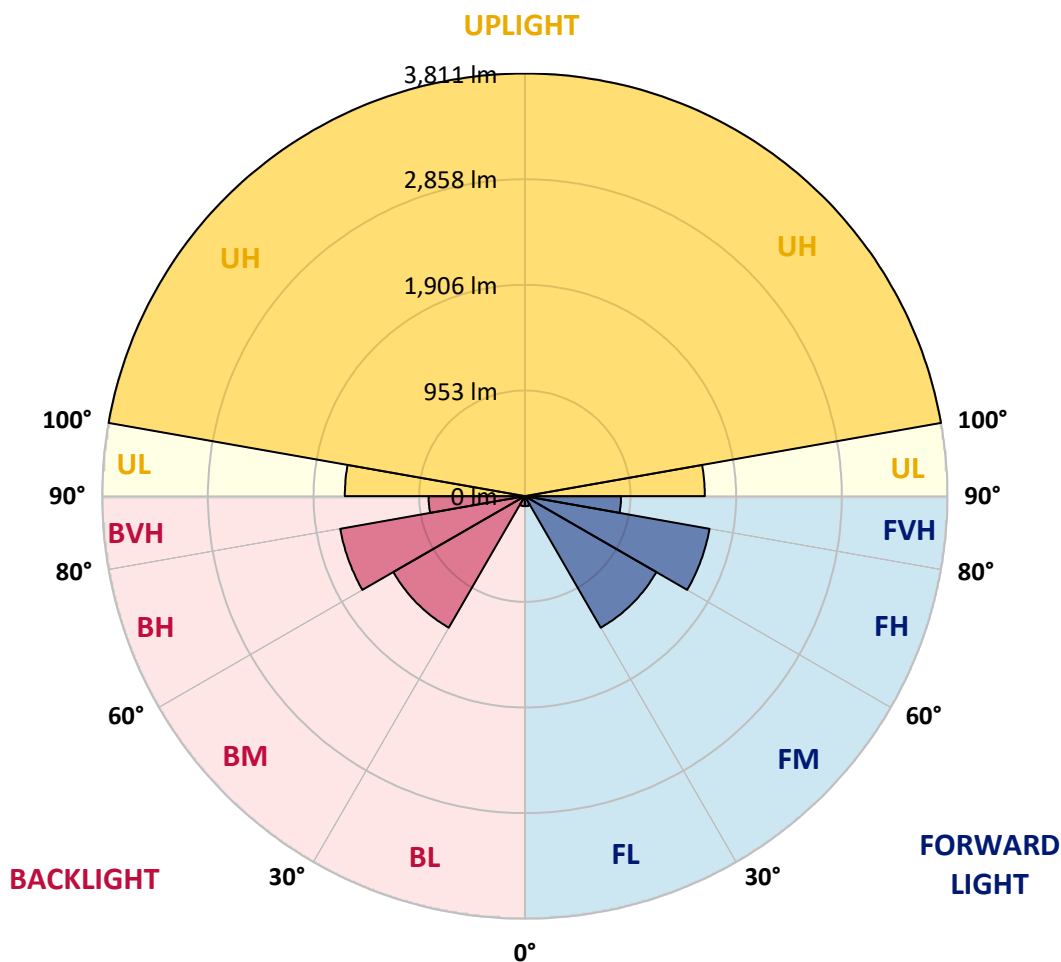
CATALOG NUMBER: FFX-CLB-90-727-U-PG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	90.7	0.7			
FM (30°-60°)	1370.2	10.2			
FH (60°-80°)	1690.9	12.5			G1/1800
FVH (80°-90°)	867.7	6.4			G5
BL (0°-30°)	90.7	0.7	B0/110		
BM (30°-60°)	1370.2	10.2	B2/2500		
BH (60°-80°)	1690.9	12.5	B3/2500		G1/1800
BVH (80°-90°)	867.7	6.4			G5
UL (90°-100°)	1623.4	12.0		U5	
UH (100°-180°)	3811.2	28.3		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°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	100.3	99.4	98.6	97.7	98.6	99.4	101.1	102.0	102.0	102.0	102.0
5°	90.9	91.8	92.6	93.5	93.5	93.5	93.5	94.3	95.2	95.2	95.2
7.5°	85.8	85.8	86.7	89.2	90.1	89.2	89.2	90.1	87.5	85.0	84.1
10°	83.3	83.3	84.1	85.0	85.8	87.5	88.4	88.4	88.4	88.4	87.5
12.5°	84.1	83.3	84.1	85.0	86.7	87.5	85.8	85.8	87.5	89.2	90.1
15°	88.4	87.5	87.5	89.2	90.1	90.1	88.4	88.4	89.2	90.9	90.9
17.5°	107.1	105.4	104.5	105.4	104.5	105.4	104.5	106.2	106.2	105.4	104.5
20°	146.2	144.5	141.9	141.1	141.9	144.5	145.3	147.9	145.3	144.5	141.1
22.5°	207.4	204.8	203.1	203.1	205.7	207.4	206.5	209.9	208.2	207.4	204.0
25°	285.6	283.9	284.7	289.0	293.2	290.7	283.9	289.0	289.0	288.1	287.3
27.5°	383.3	377.4	379.9	391.0	394.4	387.6	379.9	385.9	388.4	389.3	389.3
30°	494.6	490.4	489.5	501.4	505.7	499.7	494.6	501.4	501.4	504.0	504.0
32.5°	615.3	612.8	608.5	615.3	622.1	620.4	620.4	625.5	623.8	626.4	627.2
35°	747.9	742.8	734.3	735.2	742.8	743.7	749.6	753.0	751.3	750.5	750.5
37.5°	872.8	866.0	858.4	854.1	863.5	862.6	876.2	876.2	872.8	873.7	873.7
40°	985.9	981.6	975.7	963.8	981.6	978.2	994.4	994.4	985.0	987.6	985.9
42.5°	1087.0	1087.0	1080.2	1062.4	1081.1	1077.7	1098.9	1098.9	1086.2	1085.3	1082.8
45°	1178.0	1182.2	1178.8	1162.7	1169.5	1172.0	1192.4	1188.2	1178.0	1178.0	1173.7
47.5°	1275.7	1279.9	1268.0	1251.0	1258.7	1262.9	1281.6	1279.9	1274.0	1266.3	1266.3
50°	1377.7	1378.5	1354.7	1334.3	1341.1	1363.2	1376.8	1380.2	1367.5	1349.6	1348.8
52.5°	1458.4	1463.5	1440.6	1418.5	1423.6	1449.1	1464.4	1465.2	1449.1	1423.6	1431.2
55°	1529.8	1534.9	1512.0	1492.4	1502.6	1516.2	1534.1	1523.9	1524.7	1497.5	1510.3
57.5°	1578.3	1595.3	1557.0	1552.8	1562.1	1578.3	1585.9	1583.4	1588.5	1563.0	1567.2
60°	1626.7	1634.3	1602.1	1608.0	1597.0	1625.8	1631.8	1637.7	1624.1	1606.3	1606.3
62.5°	1672.6	1653.9	1630.9	1645.4	1615.7	1652.2	1659.0	1665.8	1651.3	1634.3	1637.7
65°	1696.4	1662.4	1642.8	1660.7	1631.8	1664.9	1676.0	1678.5	1676.0	1659.8	1652.2
67.5°	1701.5	1665.8	1653.9	1668.3	1639.4	1676.0	1686.2	1691.3	1693.8	1681.9	1660.7
70°	1699.8	1661.5	1651.3	1664.9	1646.2	1680.2	1681.1	1688.7	1692.1	1697.2	1673.4
72.5°	1676.8	1643.7	1641.1	1653.0	1636.0	1658.1	1659.0	1668.3	1663.2	1679.4	1667.5
75°	1658.1	1636.0	1640.3	1637.7	1620.8	1633.5	1636.9	1647.9	1629.2	1644.5	1654.7
77.5°	1646.2	1634.3	1644.5	1630.9	1613.1	1621.6	1626.7	1639.4	1611.4	1624.1	1653.9
80°	1627.5	1624.1	1636.9	1616.5	1601.2	1608.9	1617.4	1628.4	1597.8	1606.3	1648.8
82.5°	1597.0	1599.5	1611.4	1587.6	1577.4	1585.9	1596.1	1613.1	1581.7	1586.8	1631.8
85°	1583.4	1594.4	1600.4	1576.6	1564.7	1569.8	1580.8	1598.7	1565.5	1573.2	1619.1
87.5°	1581.7	1595.3	1599.5	1579.1	1568.9	1576.6	1581.7	1607.2	1571.5	1580.8	1627.5
90°	1586.8	1591.9	1594.4	1576.6	1568.1	1580.0	1580.8	1612.3	1576.6	1579.1	1620.8
92.5°	1569.8	1570.6	1575.7	1559.6	1558.7	1567.2	1565.5	1591.9	1552.8	1546.8	1582.5
95°	1487.3	1480.5	1491.6	1483.1	1500.9	1513.7	1528.1	1561.3	1541.7	1546.8	1577.4
97.5°	1399.8	1401.5	1404.9	1391.3	1388.7	1393.8	1399.8	1416.8	1410.8	1415.9	1444.8
100°	1379.4	1385.3	1384.5	1377.7	1349.6	1343.7	1330.9	1313.1	1289.3	1292.7	1296.9
102.5°	1389.6	1405.7	1408.3	1417.6	1417.6	1413.4	1422.7	1415.1	1419.3	1444.0	1430.4
105°	1353.0	1371.7	1383.6	1393.8	1413.4	1429.5	1472.9	1499.2	1520.5	1550.2	1546.0
107.5°	1308.8	1318.2	1326.7	1326.7	1321.6	1319.0	1342.8	1347.1	1341.1	1348.8	1349.6
110°	1171.2	1170.3	1178.8	1175.4	1178.0	1164.4	1171.2	1194.1	1189.0	1204.3	1206.9



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CATALOG NUMBER: FFX-CLB-90-727-U-PG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1064.1	1064.1	1070.0	1061.5	1062.4	1051.3	1055.6	1070.9	1071.7	1084.5	1091.3
115°	974.0	972.3	980.8	974.0	966.3	963.8	968.0	977.4	979.9	988.4	1002.0
117.5°	906.8	898.3	905.1	906.0	909.4	902.6	912.8	918.7	922.1	928.9	940.0
120°	851.6	843.1	845.6	854.1	864.3	849.9	860.9	866.0	868.6	871.1	876.2
122.5°	788.7	782.8	780.2	797.2	803.2	790.4	796.4	804.0	808.3	812.5	816.7
125°	725.0	719.9	717.3	732.6	738.6	728.4	736.9	747.9	746.2	755.6	747.1
127.5°	667.2	665.5	662.1	669.7	674.0	673.1	680.8	694.4	688.4	696.9	687.6
130°	598.3	605.1	600.0	609.4	610.2	617.0	619.6	632.3	626.4	628.1	622.1
132.5°	542.2	544.8	542.2	545.6	548.2	548.2	555.0	568.6	559.2	558.4	553.3
135°	485.3	486.1	482.7	487.8	489.5	485.3	492.1	502.3	497.2	494.6	494.6
137.5°	429.2	428.3	429.2	430.9	432.6	431.7	435.1	442.8	441.1	437.7	441.9
140°	381.6	379.1	379.9	380.8	379.9	379.9	383.3	390.1	390.1	385.9	390.1
142.5°	334.0	333.2	333.2	333.2	333.2	334.9	338.3	340.0	341.7	338.3	337.4
145°	294.1	293.2	292.4	292.4	292.4	293.2	296.6	295.8	299.2	295.8	293.2
147.5°	258.4	259.2	257.5	256.7	255.8	258.4	259.2	260.9	262.6	260.9	258.4
150°	229.5	228.6	228.6	226.9	226.9	229.5	228.6	230.3	232.0	231.2	230.3
152.5°	204.0	204.0	204.0	202.3	203.1	204.8	204.8	204.8	206.5	206.5	205.7
155°	183.6	183.6	183.6	182.7	182.7	184.4	184.4	184.4	185.3	185.3	185.3
157.5°	168.3	168.3	167.4	167.4	167.4	168.3	167.4	167.4	168.3	168.3	168.3
160°	156.4	156.4	155.5	155.5	154.7	155.5	154.7	154.7	155.5	155.5	155.5
162.5°	147.0	147.0	146.2	146.2	146.2	146.2	146.2	145.3	145.3	146.2	145.3
165°	140.2	140.2	140.2	140.2	140.2	140.2	140.2	139.4	139.4	139.4	139.4
167.5°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
170°	133.4	133.4	133.4	134.3	134.3	134.3	133.4	133.4	134.3	134.3	133.4
172.5°	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6
175°	132.6	132.6	132.6	132.6	132.6	132.6	131.7	132.6	132.6	132.6	132.6
177.5°	132.6	131.7	131.7	132.6	132.6	131.7	131.7	131.7	131.7	131.7	131.7
180°	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6

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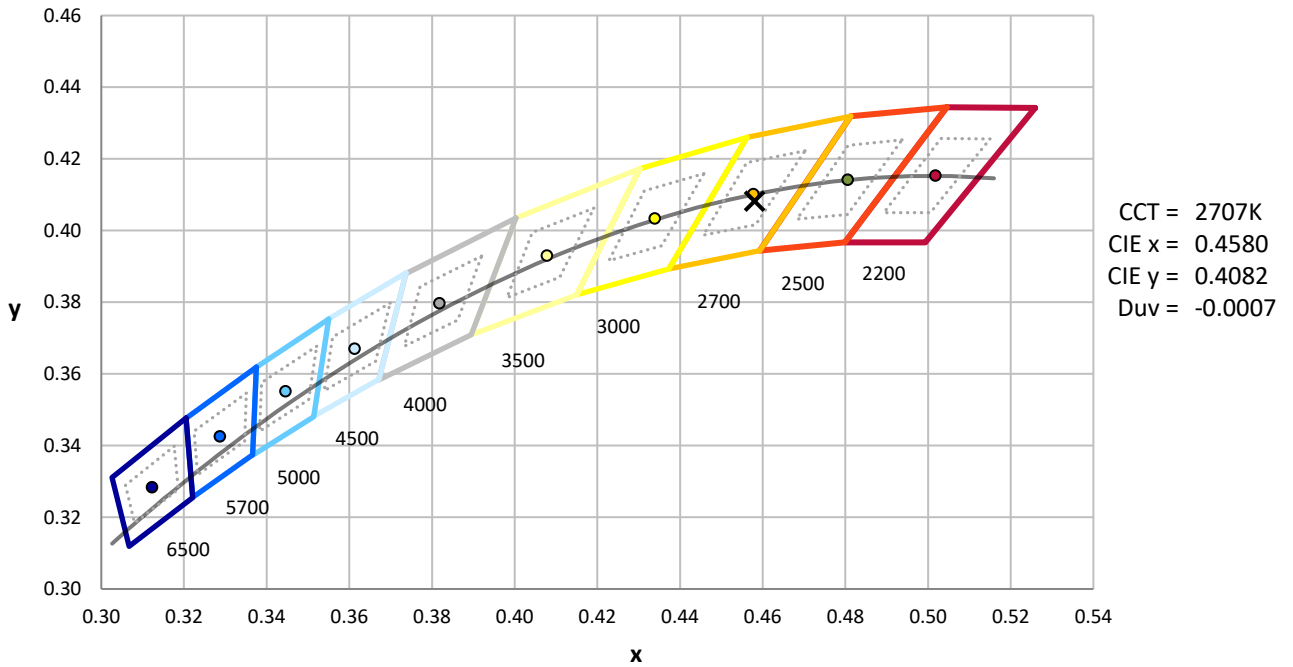
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



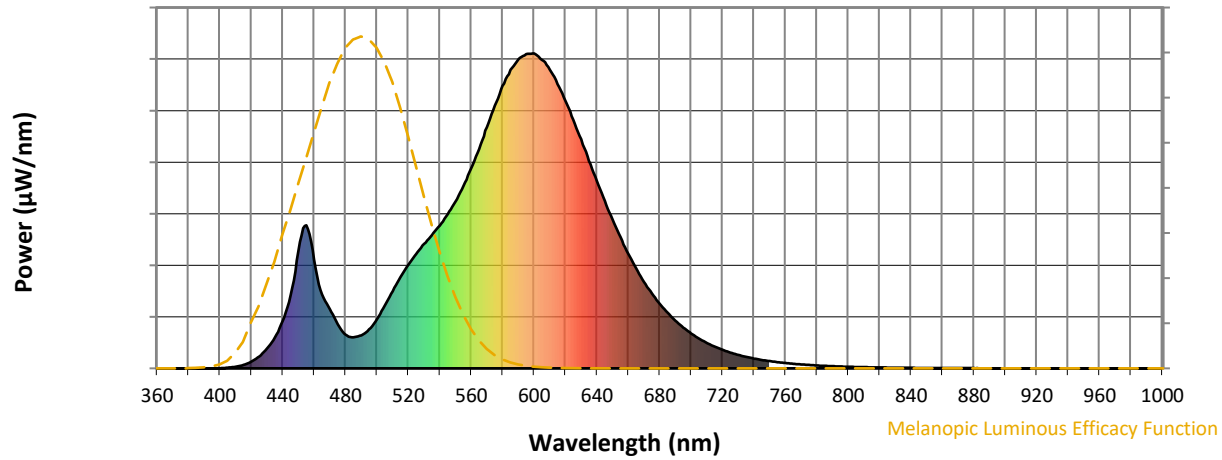
Scotopic Lumens: NR

S/P: 1.12

λ (nm)	Power W [^] /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	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

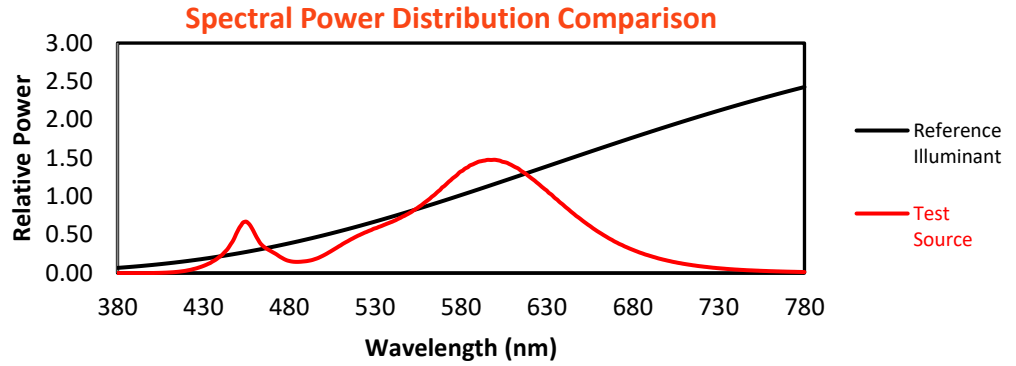
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	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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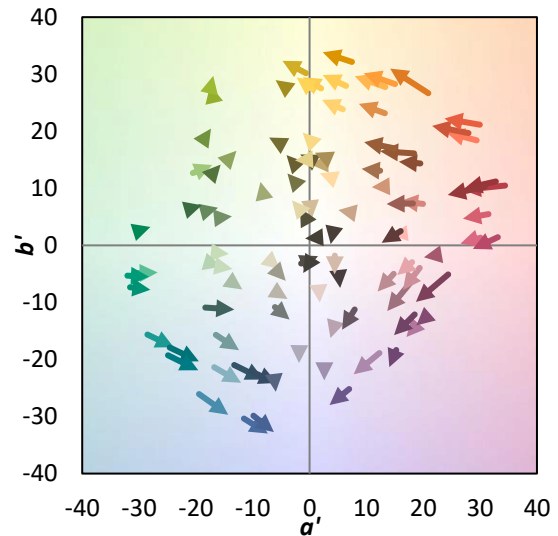
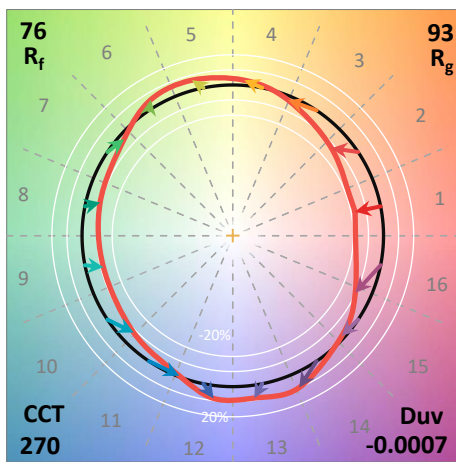
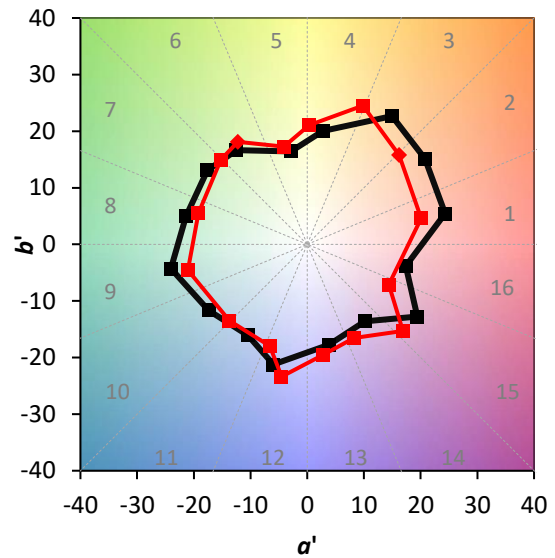
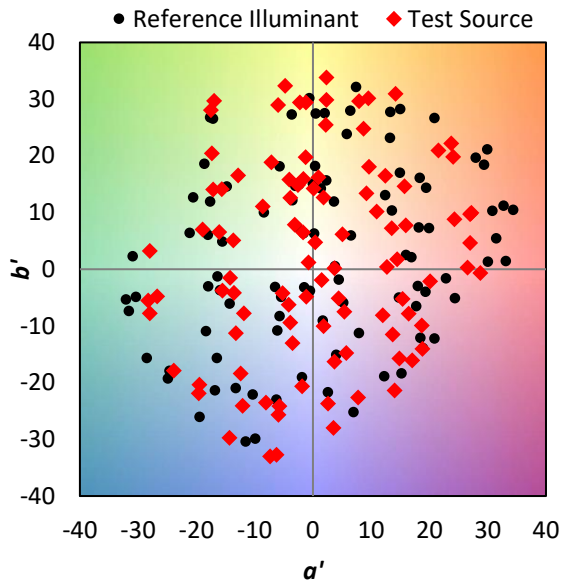
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Summary

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



Color Vector Graphics



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

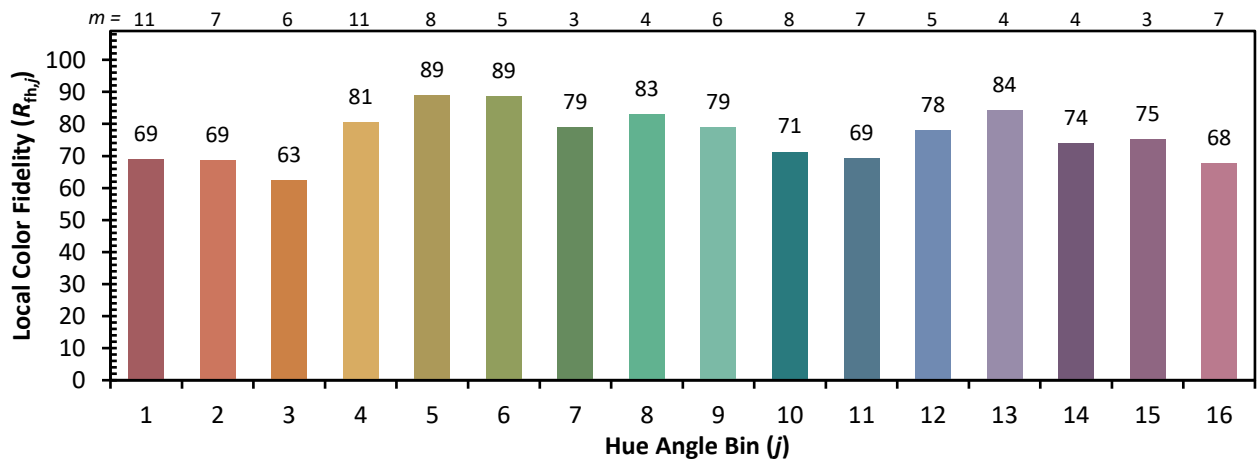
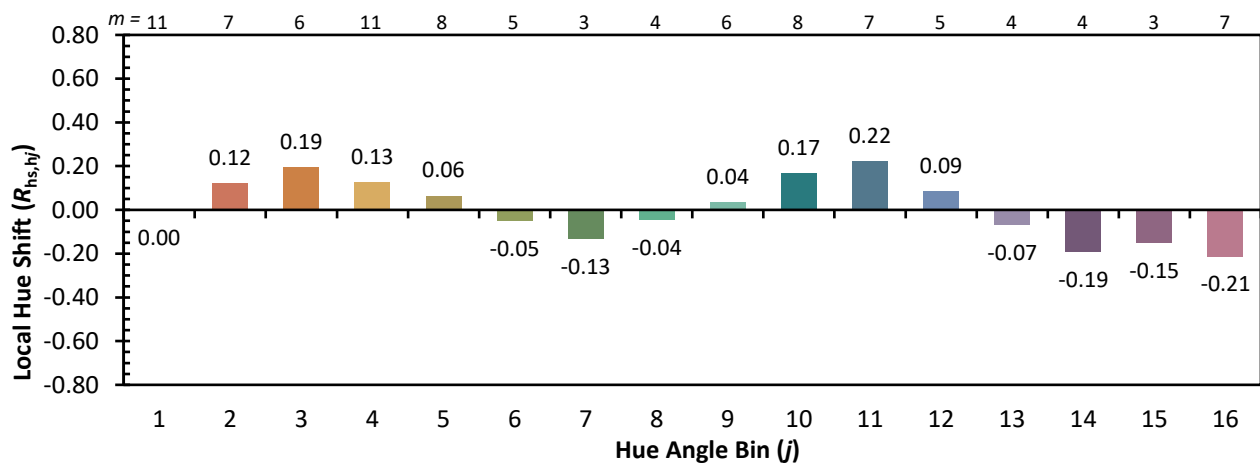
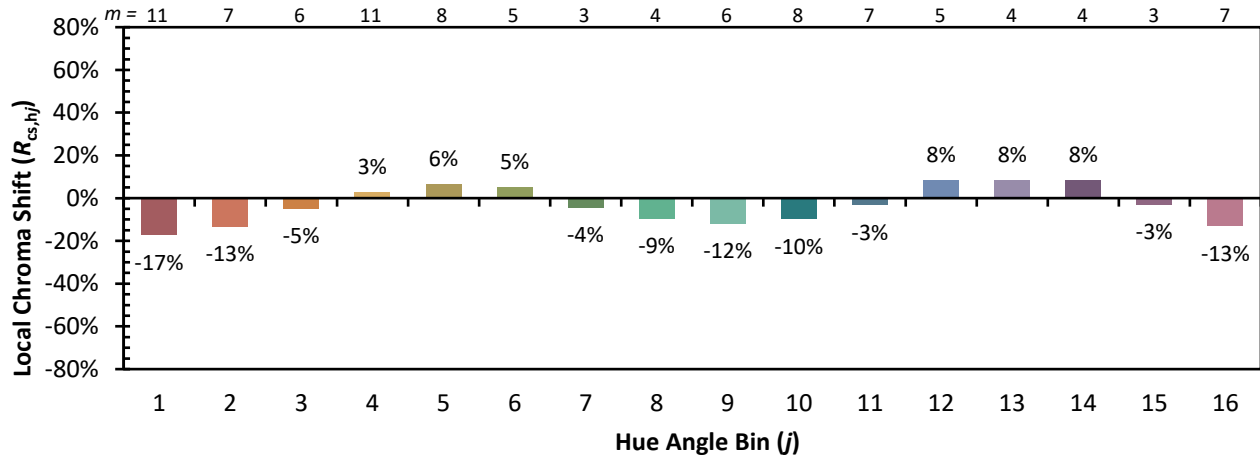
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CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 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	



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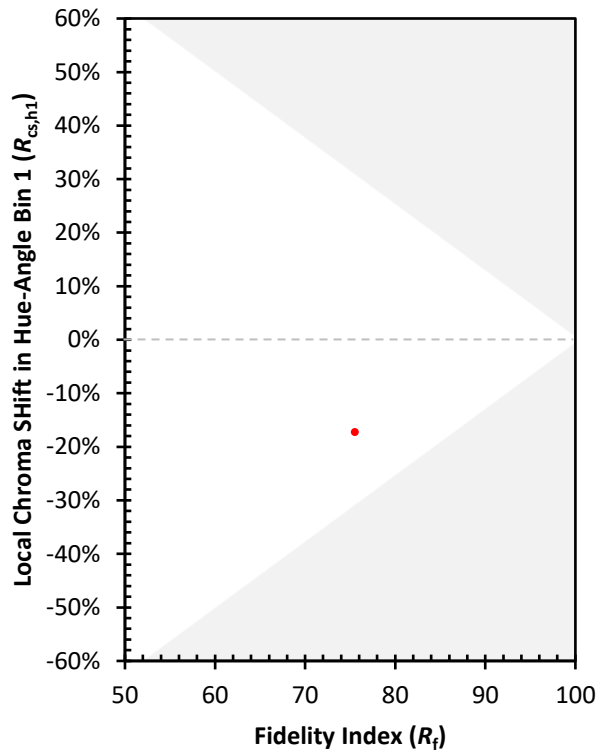
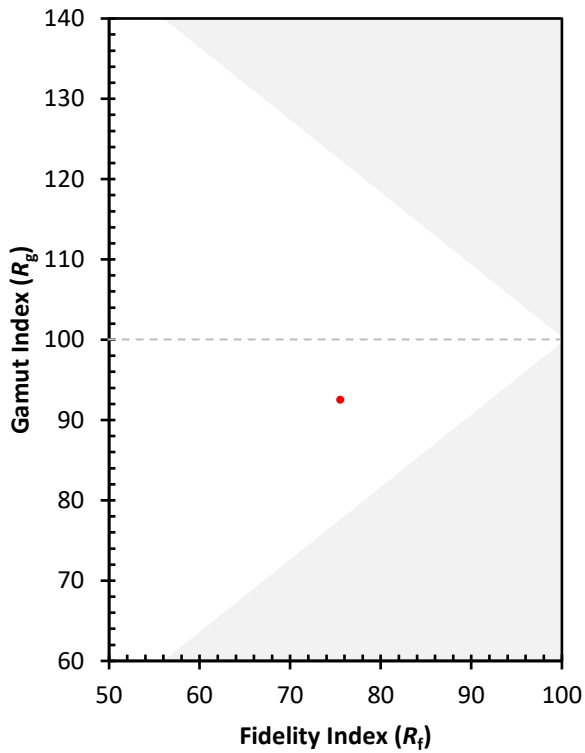
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)