

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: P856282

Luminaire Tested: **FFX-CLB-90-722-U-FG**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856282
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-90-722-U-FG
Description: FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

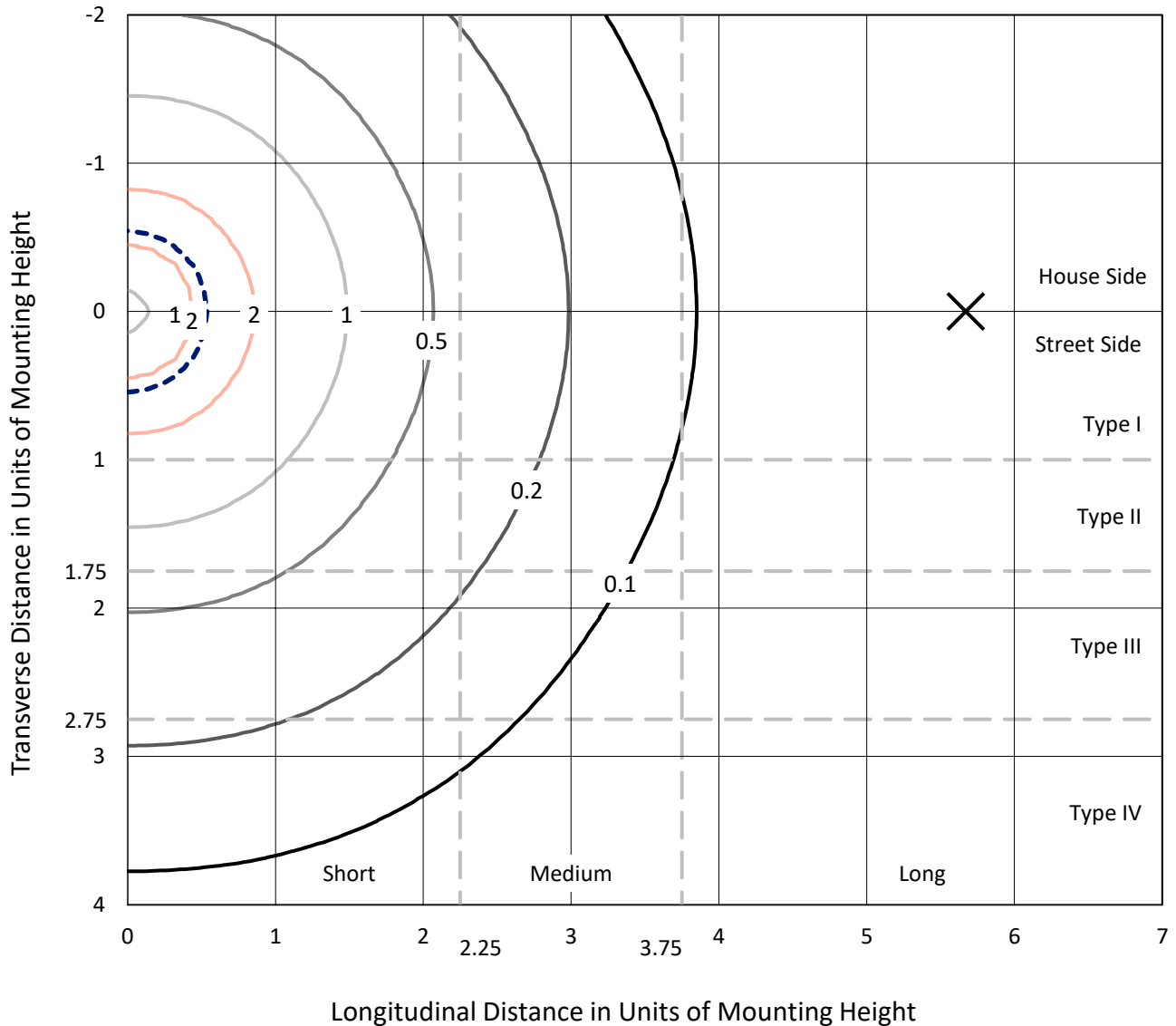
Lumens per Lamp: N/A
Luminaire Lumens: 12730.3 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1.5')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G4

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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 CATALOG NUMBER: FFX-CLB-90-722-U-FG

Iso-Footcandle Lines of Horizontal Illumination

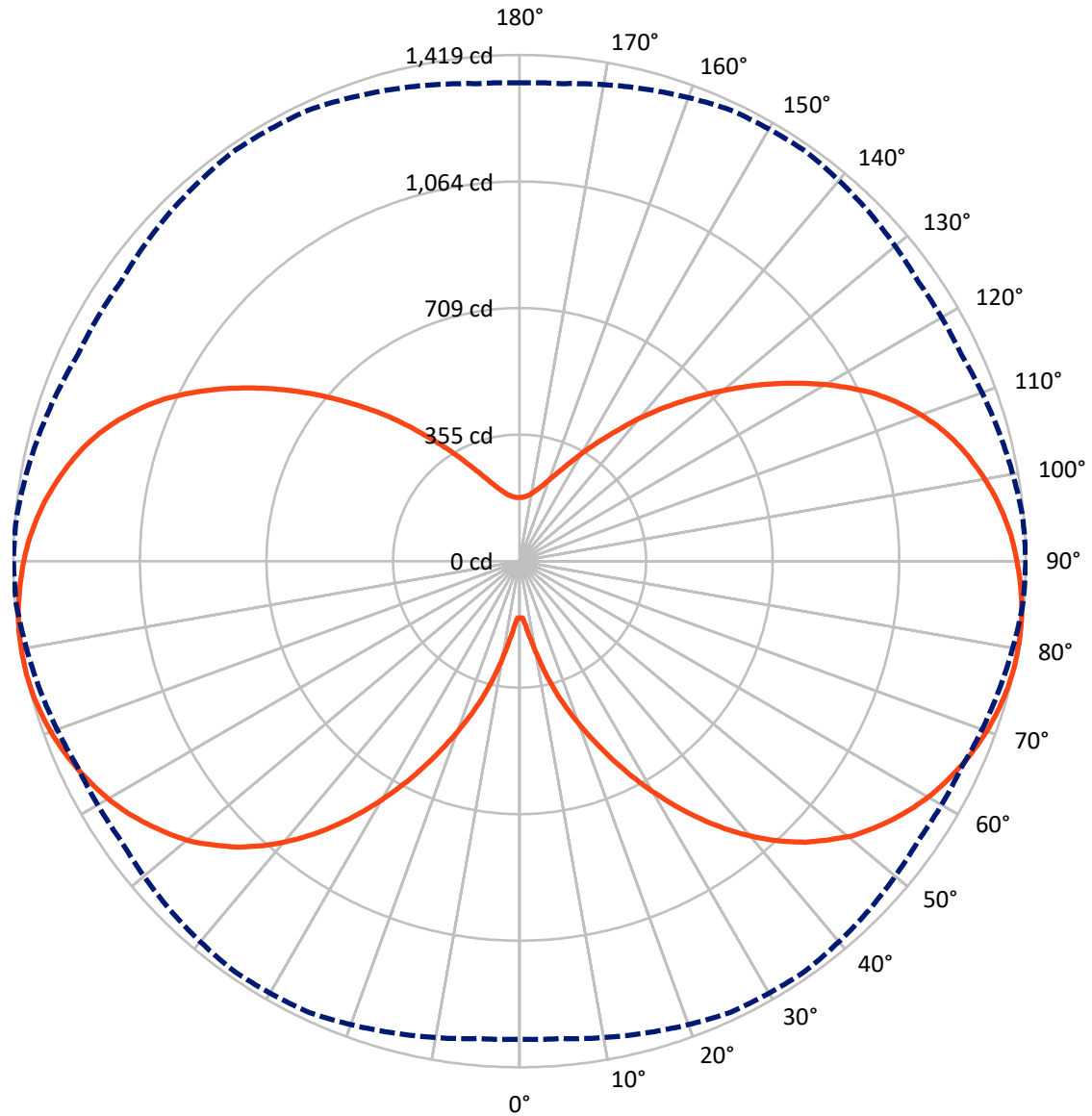
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 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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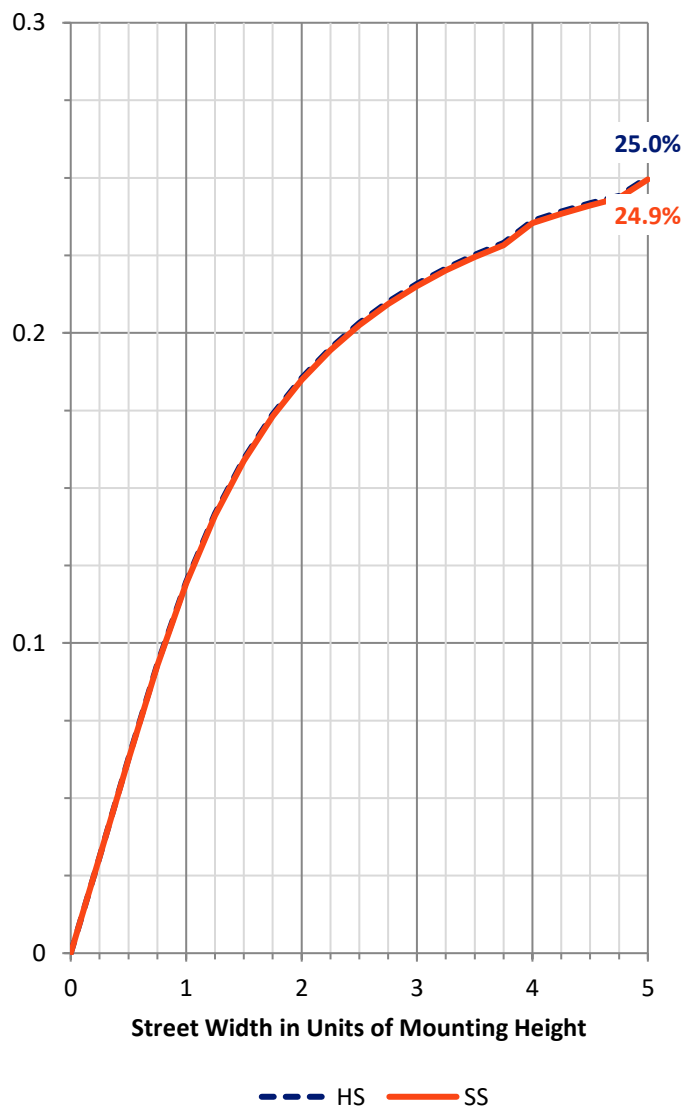
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3621.9	2743.3	6365.1
	% Fixture	28.5	21.5	50.0
Street Side	Lumens	3621.9	2743.3	6365.1
	% Fixture	28.5	21.5	50.0
Total	Lumens	7243.8	5486.5	12730.3
	% Fixture	56.9	43.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.2	0.2
10°-20°	111.1	0.9
20°-30°	292.1	2.3
30°-40°	558.4	4.4
40°-50°	858.4	6.7
50°-60°	1124.5	8.8
60°-70°	1327.2	10.4
70°-80°	1456.0	11.4
80°-90°	1496.0	11.8
90°-100°	1441.2	11.3
100°-110°	1292.3	10.2
110°-120°	1050.1	8.2
120°-130°	750.4	5.9
130°-140°	474.5	3.7
140°-150°	265.8	2.1
150°-160°	133.8	1.1
160°-170°	60.8	0.5
170°-180°	17.6	0.1
0°-90°	7243.8	56.9
0°-180°	12730.3	100.0

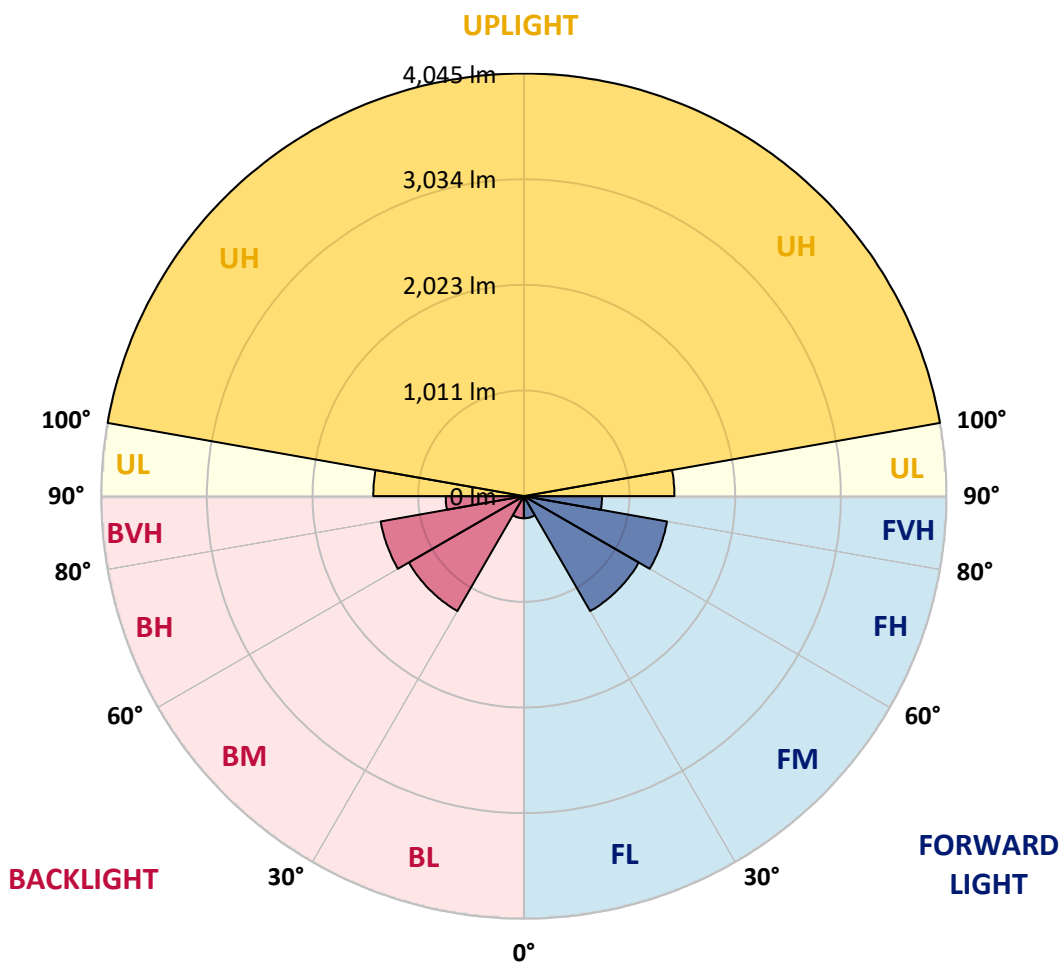


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.7	1.7			
FM (30°-60°)	1270.7	10.0			
FH (60°-80°)	1391.6	10.9			G1/1800
FVH (80°-90°)	748.0	5.9			G4/750
BL (0°-30°)	211.7	1.7	B1/500		
BM (30°-60°)	1270.7	10.0	B2/2500		
BH (60°-80°)	1391.6	10.9	B3/2500		G1/1800
BVH (80°-90°)	748.0	5.9			G4/750
UL (90°-100°)	1441.2	11.3		U5	
UH (100°-180°)	4045.3	31.8		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°	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8
2.5°	167.6	167.6	166.9	165.3	164.5	163.7	162.2	159.8	159.0	159.0	159.0
5°	182.5	183.3	183.3	182.5	183.3	181.8	181.8	180.2	181.0	181.0	181.8
7.5°	219.4	219.4	220.1	220.1	220.9	219.4	220.1	219.4	220.1	220.1	219.4
10°	267.1	267.1	268.7	267.1	267.9	266.4	265.6	265.6	267.9	267.1	266.4
12.5°	321.2	322.8	322.0	321.2	322.8	321.2	319.6	320.4	323.5	322.0	321.2
15°	378.4	380.0	381.5	379.2	380.0	379.2	378.4	379.2	382.3	380.7	380.0
17.5°	436.4	437.1	438.7	435.6	436.4	437.1	436.4	437.1	439.5	438.7	437.9
20°	494.3	495.9	497.5	494.3	495.1	495.9	495.1	495.9	499.0	497.5	496.7
22.5°	555.4	556.2	559.4	555.4	557.0	557.8	556.2	557.8	560.9	559.4	558.6
25°	618.9	618.1	622.8	619.7	620.5	622.0	620.5	622.0	625.9	625.9	623.6
27.5°	683.9	683.9	687.8	685.5	687.0	686.3	687.8	689.4	693.3	694.1	691.7
30°	748.9	748.9	755.2	751.3	753.6	754.4	754.4	756.0	760.7	762.3	759.1
32.5°	814.0	814.0	817.1	817.9	819.4	820.2	821.8	821.8	828.1	828.8	827.3
35°	877.4	877.4	880.6	882.1	886.0	884.5	886.8	886.8	893.9	894.7	893.9
37.5°	937.7	938.5	942.4	944.0	947.1	947.1	948.7	950.3	956.5	958.9	958.1
40°	994.9	996.5	999.6	1002.8	1005.9	1005.9	1006.7	1009.0	1016.1	1018.4	1017.6
42.5°	1046.6	1047.4	1052.1	1056.8	1060.0	1060.0	1060.7	1062.3	1070.1	1073.3	1073.3
45°	1092.1	1094.4	1100.7	1107.0	1110.1	1109.3	1109.3	1111.7	1120.3	1124.2	1124.2
47.5°	1134.4	1137.5	1144.6	1150.8	1154.0	1154.0	1153.2	1155.5	1164.9	1169.6	1167.3
50°	1172.0	1174.3	1182.2	1191.6	1193.9	1193.9	1191.6	1193.9	1204.1	1210.4	1210.4
52.5°	1203.3	1205.7	1215.1	1225.3	1228.4	1227.6	1224.5	1226.8	1237.0	1244.1	1243.3
55°	1230.0	1233.1	1243.3	1255.8	1258.9	1256.6	1252.7	1255.0	1266.0	1275.4	1274.6
57.5°	1254.2	1256.6	1268.3	1281.7	1286.4	1282.4	1277.0	1279.3	1291.8	1302.0	1302.8
60°	1274.6	1277.0	1290.3	1305.9	1309.9	1305.2	1298.1	1300.5	1314.6	1326.3	1327.9
62.5°	1291.8	1294.2	1309.1	1326.3	1331.8	1324.7	1316.1	1318.5	1334.1	1347.5	1348.2
65°	1305.9	1308.3	1325.5	1343.5	1349.0	1341.2	1331.0	1333.4	1350.6	1365.5	1367.0
67.5°	1316.9	1320.0	1339.6	1359.2	1363.9	1354.5	1342.8	1345.1	1363.9	1381.1	1382.7
70°	1326.3	1330.2	1350.6	1371.7	1377.2	1366.3	1352.2	1355.3	1376.4	1393.7	1396.0
72.5°	1333.4	1337.3	1359.2	1381.9	1388.2	1374.9	1359.2	1362.3	1385.1	1403.9	1406.2
75°	1338.1	1342.0	1365.5	1389.8	1395.3	1381.1	1363.9	1367.0	1390.6	1410.9	1414.1
77.5°	1340.4	1344.3	1369.4	1394.5	1400.0	1383.5	1365.5	1368.6	1392.9	1414.8	1418.0
80°	1340.4	1343.5	1369.4	1396.0	1400.7	1384.3	1364.7	1367.0	1392.1	1415.6	1418.8
82.5°	1338.1	1341.2	1367.8	1394.5	1399.2	1381.1	1360.8	1363.9	1389.8	1413.3	1417.2
85°	1332.6	1335.7	1362.3	1389.8	1394.5	1374.9	1353.7	1356.9	1382.7	1407.8	1411.7
87.5°	1324.7	1328.7	1354.5	1381.9	1385.9	1365.5	1345.1	1346.7	1374.1	1400.0	1403.1
90°	1315.3	1319.3	1343.5	1371.0	1374.9	1354.5	1333.4	1335.7	1362.3	1389.0	1392.1
92.5°	1304.4	1307.5	1331.0	1356.1	1360.8	1339.6	1319.3	1322.4	1349.0	1375.7	1379.6
95°	1290.3	1292.6	1314.6	1338.1	1342.0	1323.2	1302.8	1305.9	1332.6	1358.4	1362.3
97.5°	1273.0	1274.6	1294.2	1315.3	1320.0	1302.0	1283.2	1286.4	1312.2	1338.1	1342.8
100°	1253.5	1254.2	1271.5	1289.5	1293.4	1278.5	1261.3	1265.2	1289.5	1316.1	1319.3
102.5°	1230.7	1230.7	1244.8	1259.7	1264.4	1251.9	1237.0	1240.9	1264.4	1289.5	1293.4
105°	1205.7	1203.3	1213.5	1225.3	1230.7	1221.3	1210.4	1213.5	1235.4	1259.7	1264.4
107.5°	1174.3	1172.0	1179.0	1189.2	1194.7	1187.6	1179.0	1183.7	1202.5	1225.3	1230.0
110°	1139.1	1135.9	1139.1	1146.9	1153.2	1148.5	1143.8	1147.7	1165.7	1186.9	1190.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1098.3	1094.4	1095.2	1100.7	1106.2	1105.4	1102.3	1108.5	1123.4	1140.6	1144.6
115°	1051.3	1047.4	1045.1	1048.2	1052.9	1056.0	1059.2	1063.1	1074.8	1088.9	1095.2
117.5°	1002.0	995.7	991.8	991.8	997.3	1002.8	1008.2	1013.7	1021.6	1034.9	1037.2
120°	944.8	940.9	935.4	935.4	940.1	945.6	954.2	960.5	965.2	974.6	977.7
122.5°	888.4	882.9	877.4	877.4	880.6	888.4	900.1	905.6	908.0	913.5	915.8
125°	831.2	824.9	818.7	818.7	821.8	829.6	842.9	847.6	849.2	851.6	853.9
127.5°	773.2	767.0	761.5	759.1	763.8	770.1	783.4	789.7	790.5	790.5	792.0
130°	715.3	710.6	705.1	702.7	707.4	712.9	727.8	734.1	730.9	730.9	731.7
132.5°	660.4	655.7	650.2	648.7	651.8	658.8	672.2	677.6	675.3	672.2	672.9
135°	607.1	603.2	596.2	595.4	600.1	603.2	615.8	621.2	618.9	615.8	616.5
137.5°	556.2	552.3	546.0	545.3	550.0	553.9	563.3	568.8	565.6	562.5	563.3
140°	507.6	502.9	498.2	497.5	500.6	504.5	513.1	516.3	513.1	510.8	511.6
142.5°	462.2	459.1	453.6	453.6	455.2	458.3	465.3	468.5	465.3	462.2	460.6
145°	419.1	415.2	412.1	411.3	412.9	416.0	420.7	423.8	420.7	418.3	416.8
147.5°	380.7	377.6	374.5	374.5	375.3	377.6	381.5	382.3	380.0	378.4	376.8
150°	345.5	342.3	340.8	340.0	340.8	341.6	344.7	346.3	343.9	342.3	340.8
152.5°	313.4	311.0	309.4	310.2	310.2	311.0	311.8	312.6	310.2	310.2	308.7
155°	285.2	283.6	282.0	282.8	282.8	282.8	283.6	283.6	282.0	282.0	281.2
157.5°	261.7	260.1	259.3	260.1	260.1	259.3	260.1	260.1	258.5	258.5	257.7
160°	241.3	239.7	239.7	239.7	239.7	238.9	240.5	239.7	238.9	238.2	238.2
162.5°	224.8	223.3	223.3	224.1	223.3	223.3	223.3	223.3	222.5	222.5	221.7
165°	211.5	210.0	210.0	210.7	210.0	210.0	210.0	210.0	209.2	209.2	209.2
167.5°	200.6	199.8	199.8	199.8	199.8	199.0	199.8	199.8	199.0	199.0	199.0
170°	191.9	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	190.4	190.4
172.5°	186.5	185.7	185.7	185.7	185.7	185.7	185.7	185.7	184.9	184.9	184.9
175°	182.5	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.0	181.0
177.5°	180.2	179.4	179.4	179.4	179.4	179.4	179.4	179.4	179.4	178.6	178.6
180°	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6

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: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

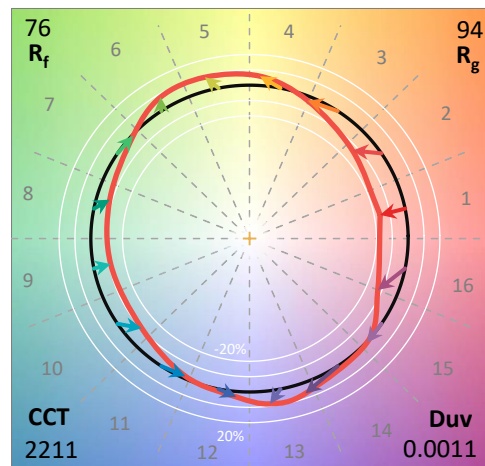
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 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-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

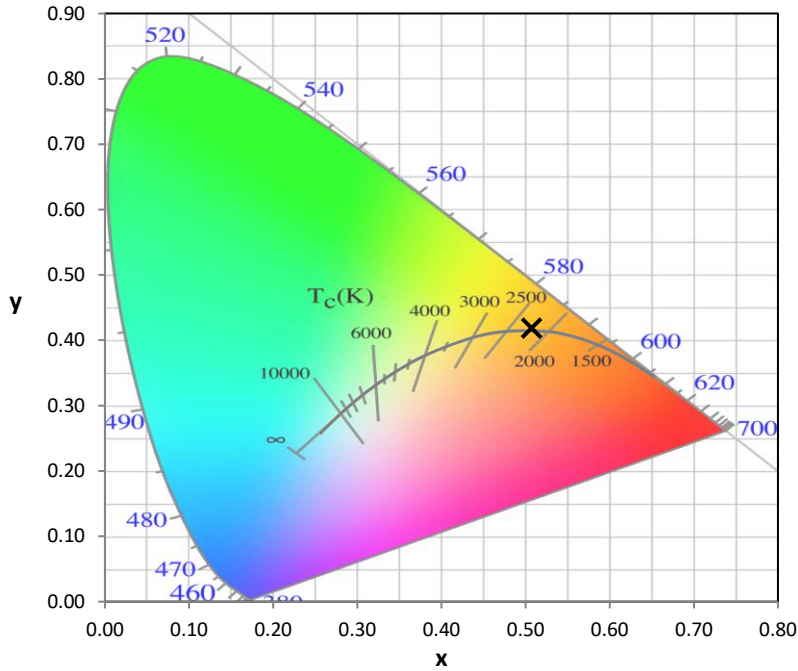
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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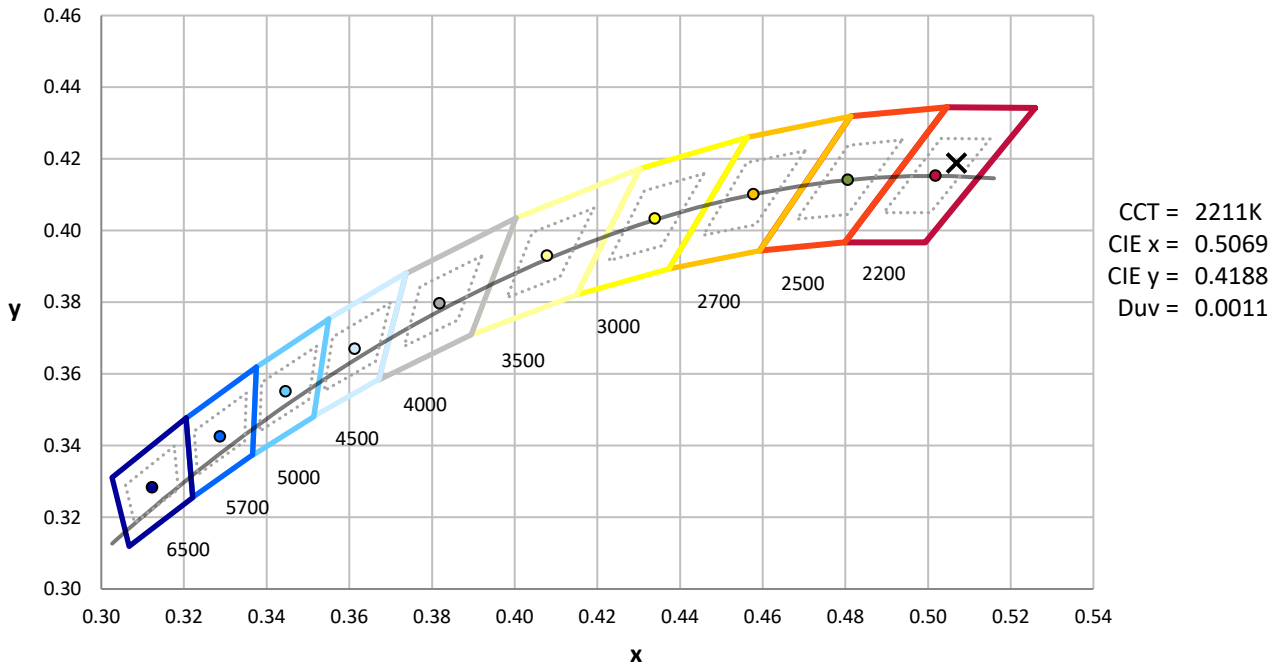
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

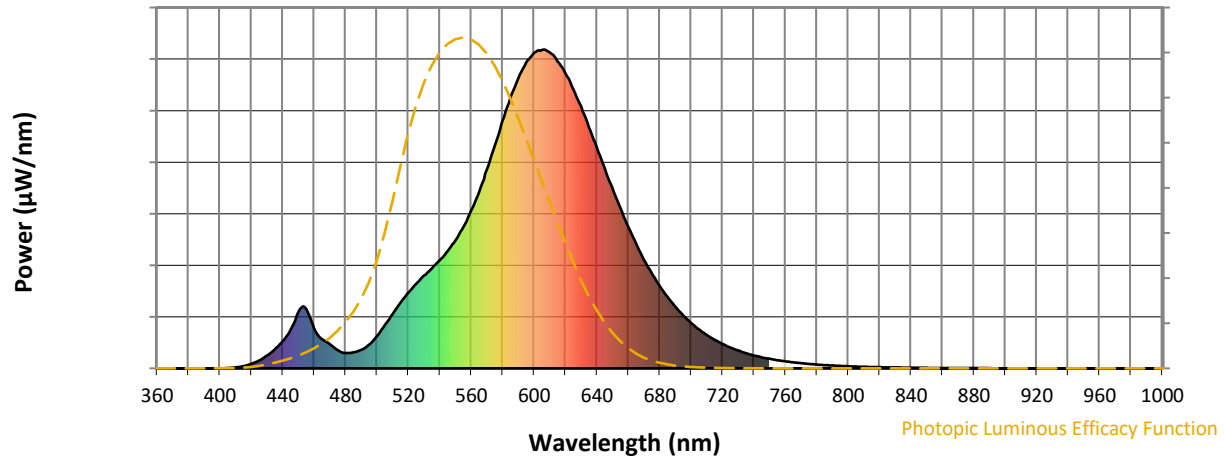


CCT = 2211K
CIE x = 0.5069
CIE y = 0.4188
Duv = 0.0011

Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

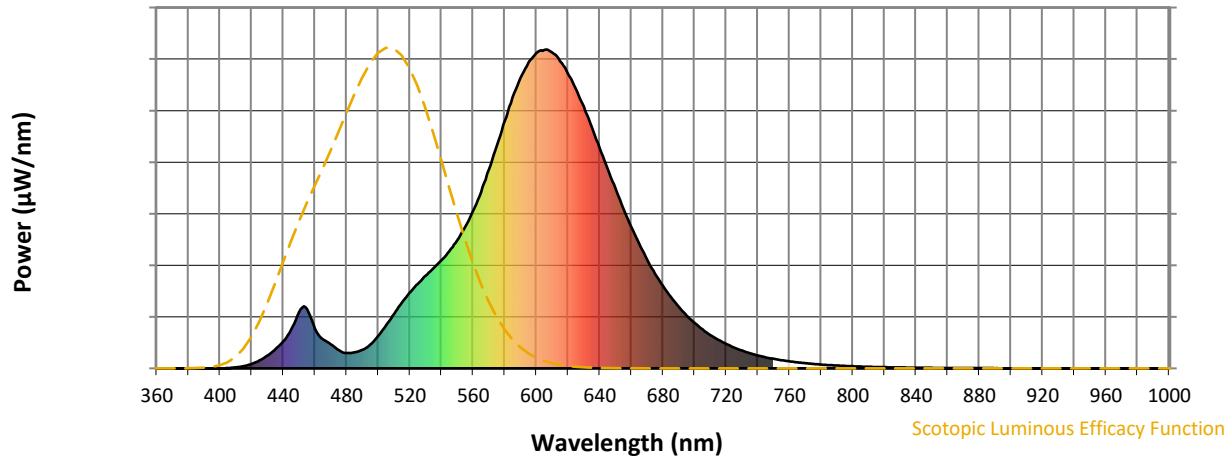


Photopic Lumens: NR

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



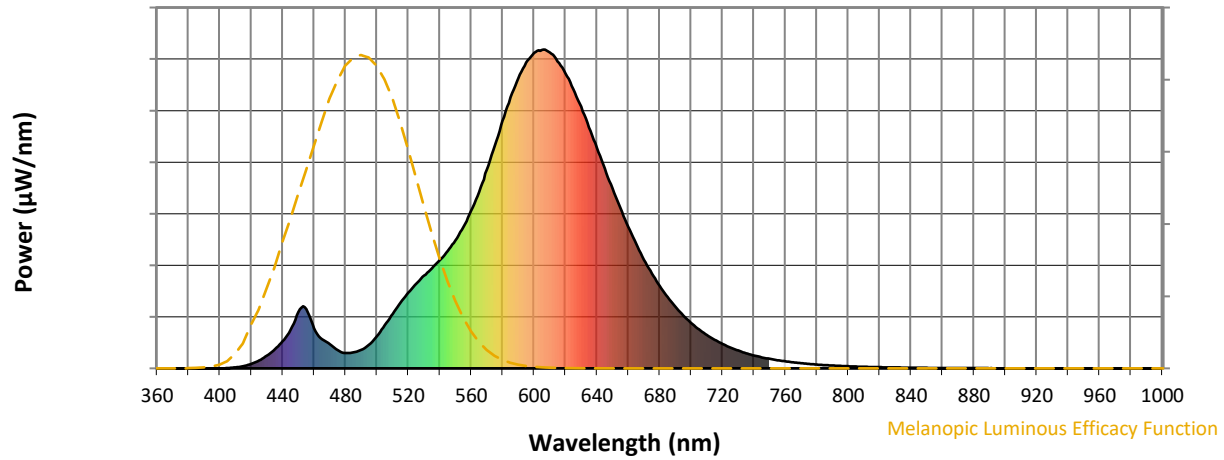
Scotopic Lumens: NR

S/P: 0.87

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

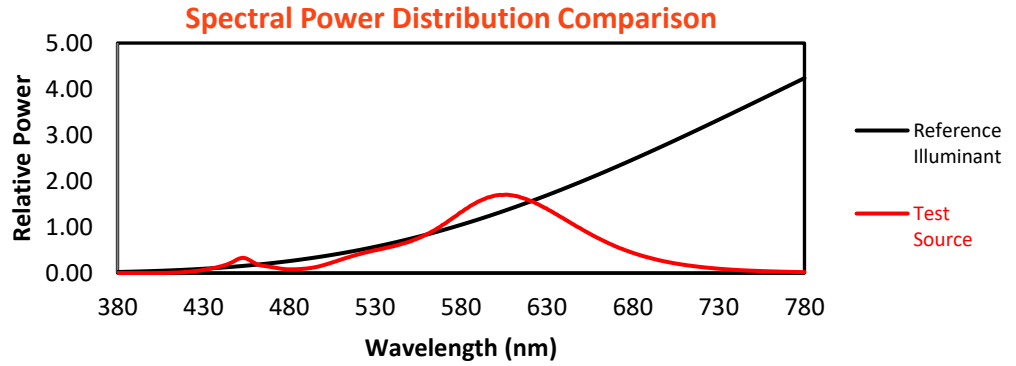
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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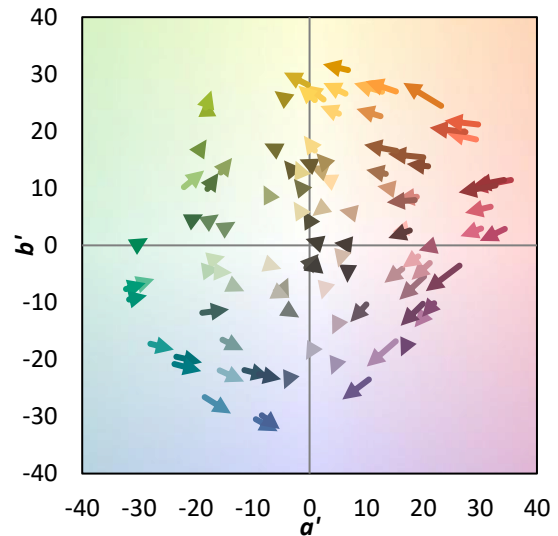
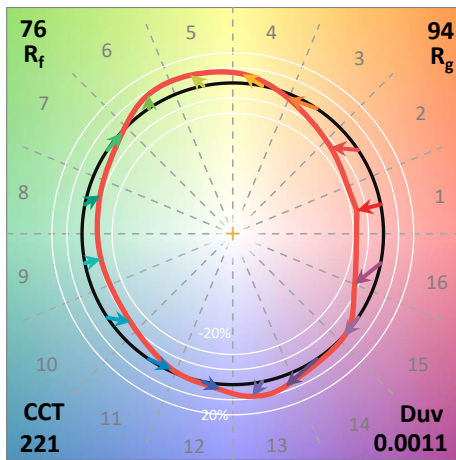
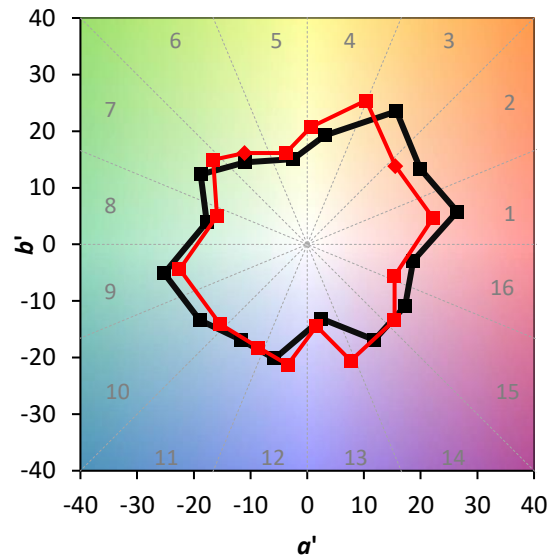
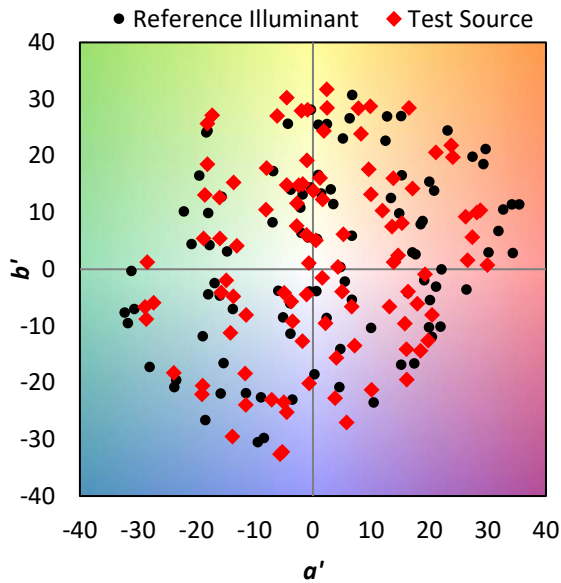
TM-30-18

Summary

$R_f = 76.1$
 $R_g = 94.3$
 CIE $R_a = 71.4$
 $R_9 = -29.2$



Color Vector Graphics

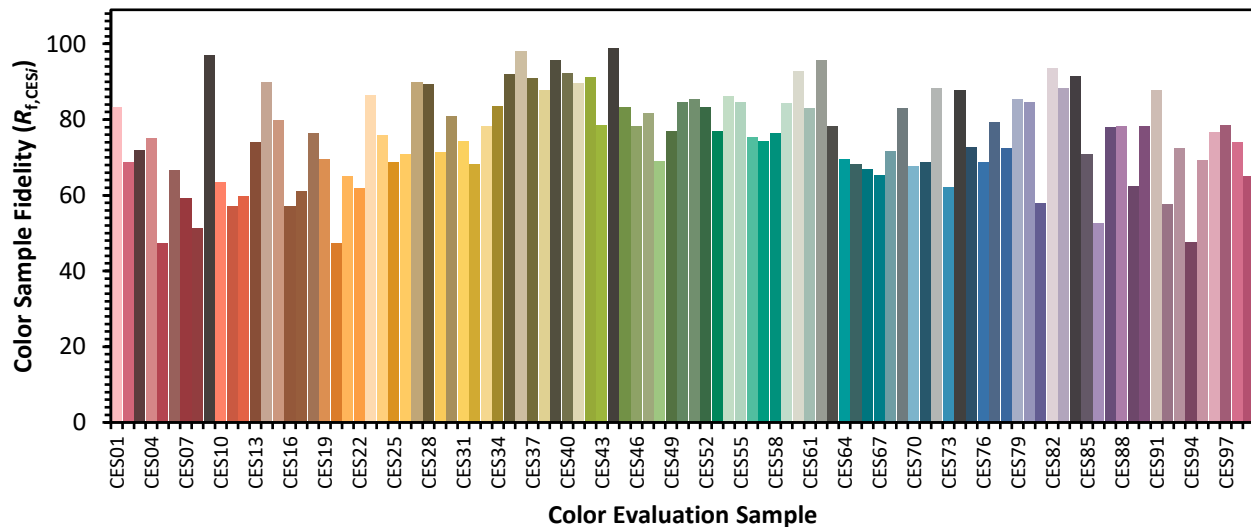


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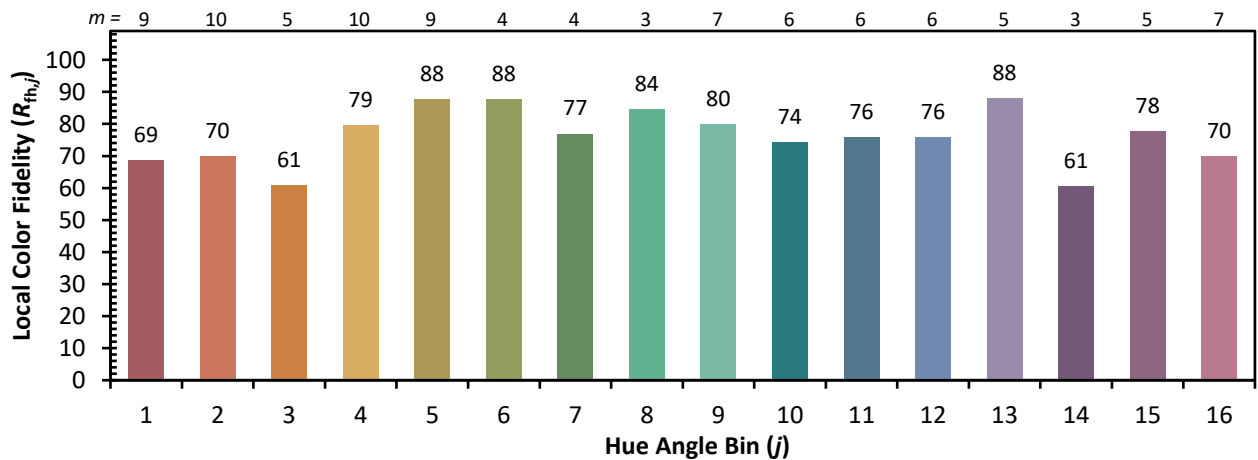
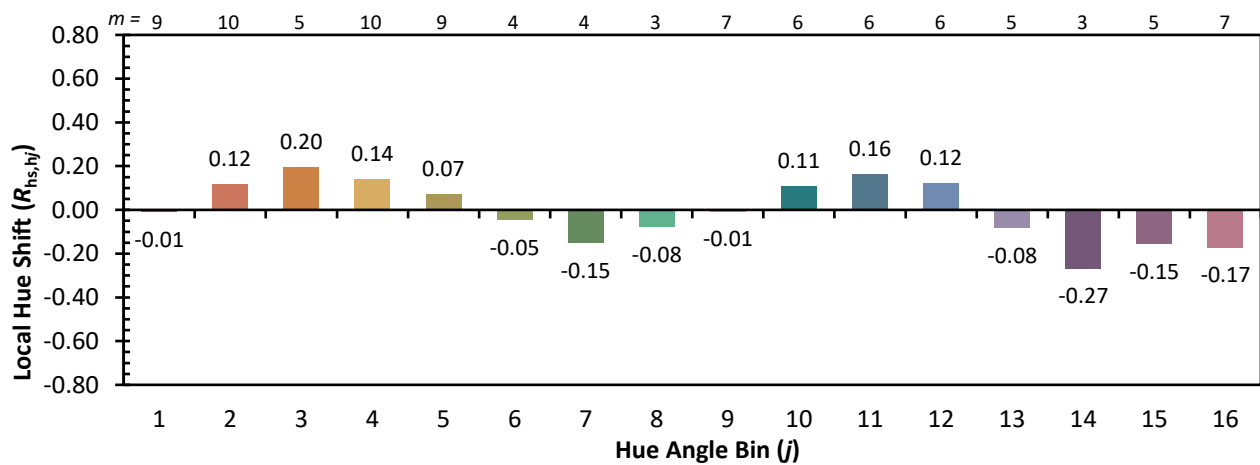
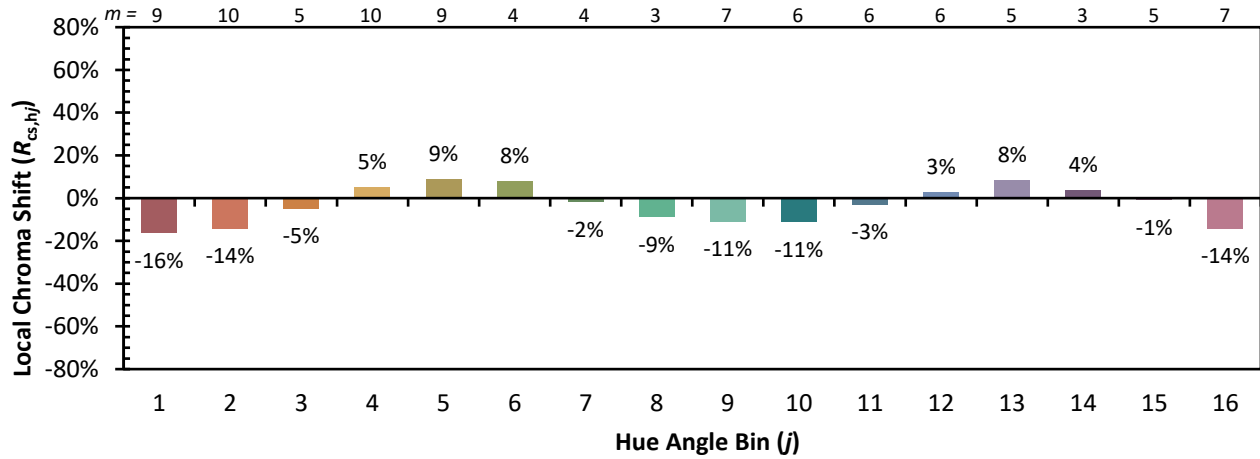
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Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 71	CES51 = 85	CES76 = 69
CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



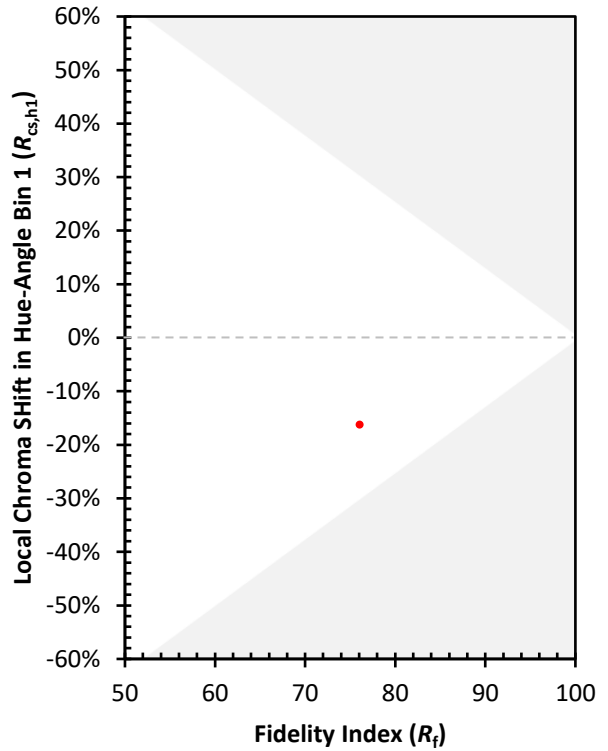
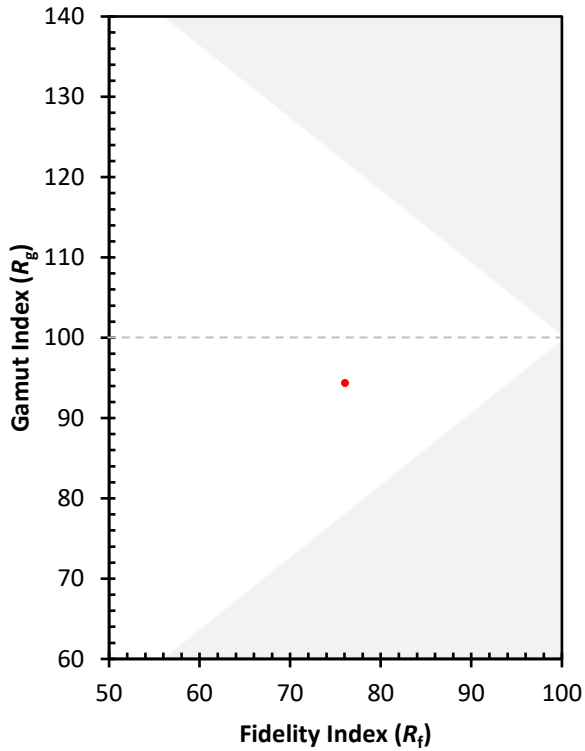
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)