

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: P856311

Luminaire Tested: **FFX-CLB-70-740-U-FG**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856311
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-740-U-FG
Description: FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

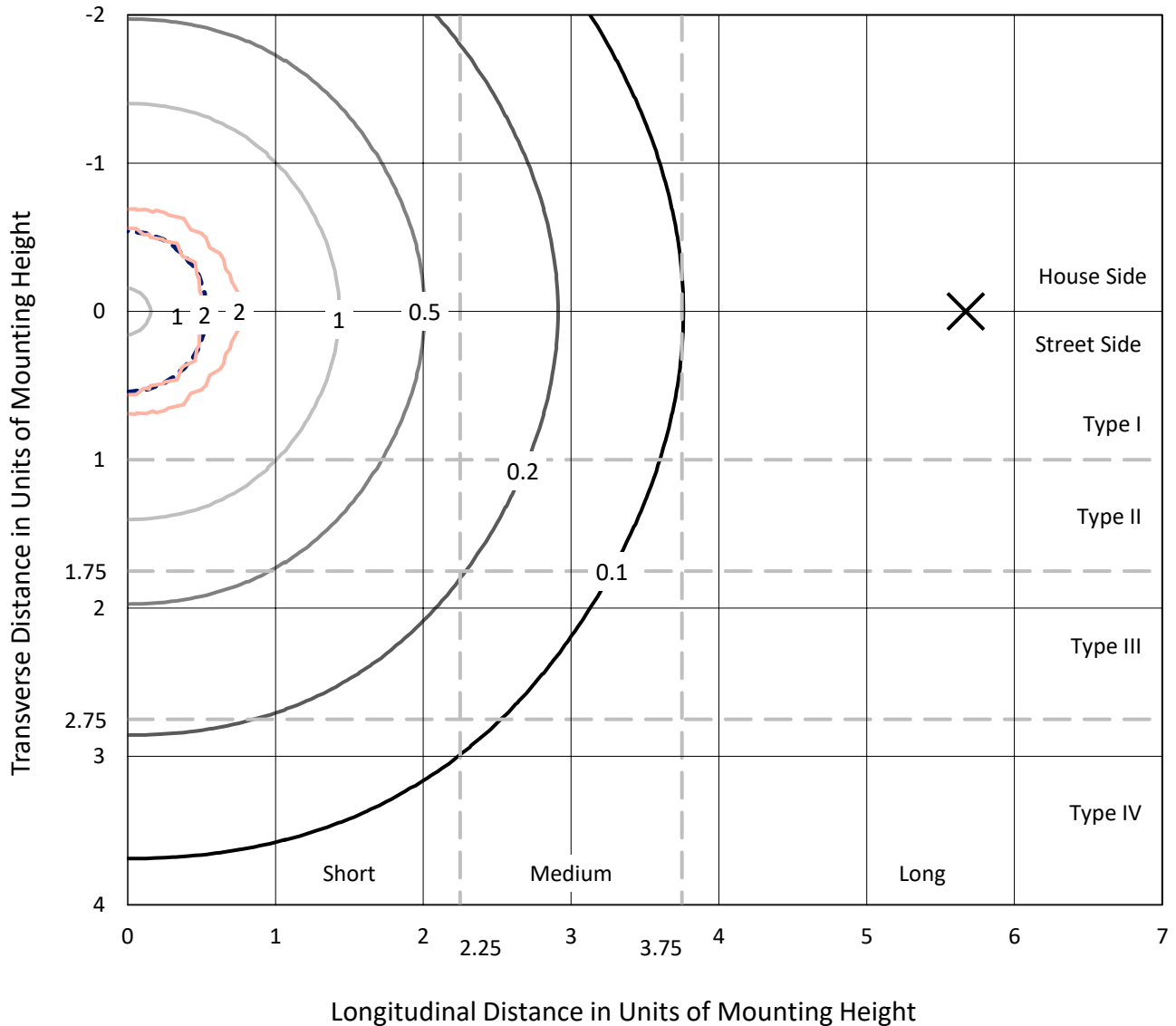
Lumens per Lamp: N/A
Luminaire Lumens: 11930.4 lumens
Efficiency: N/A
Efficacy: 169.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1.5')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 70.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 7.1%%
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

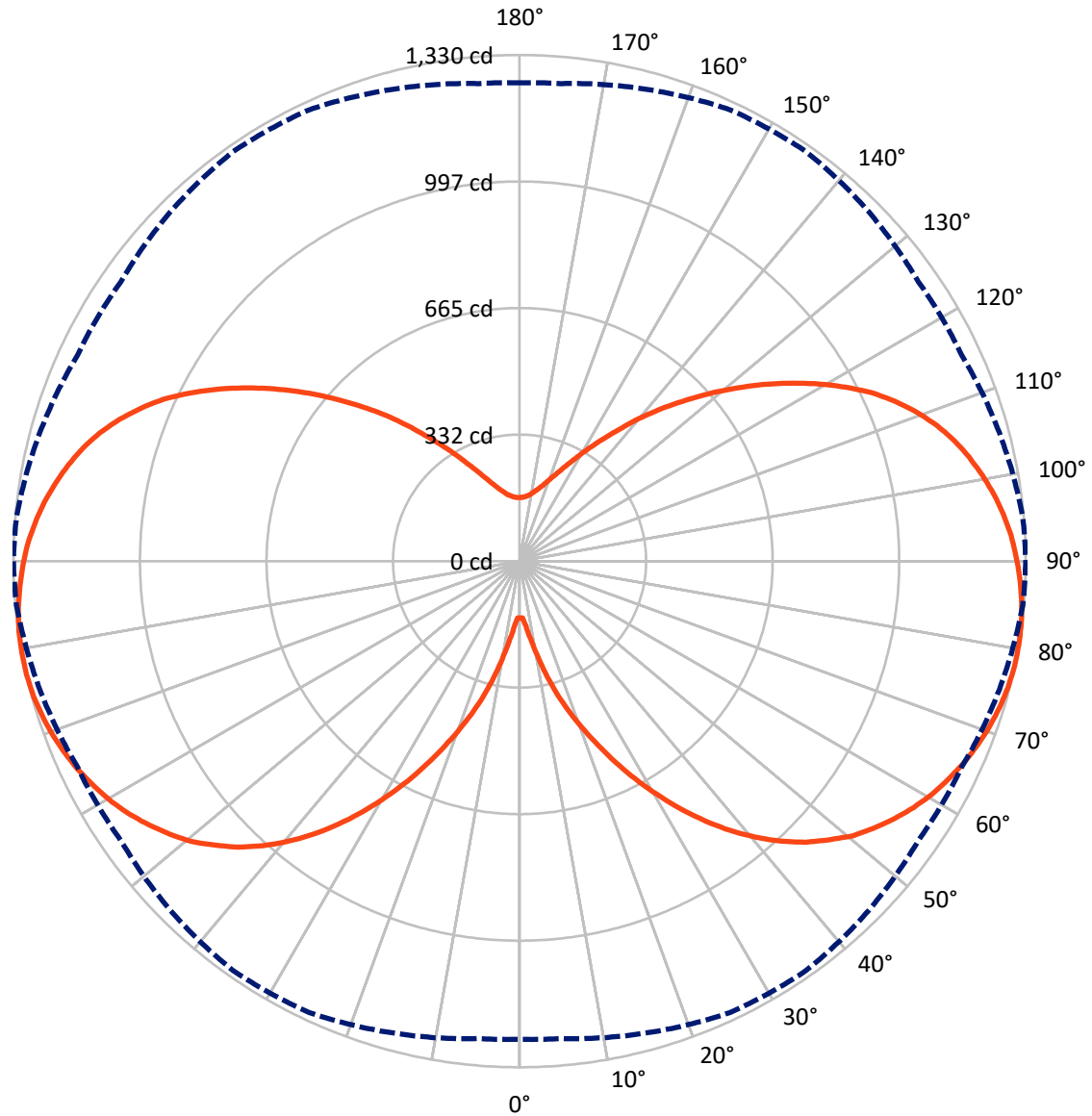
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 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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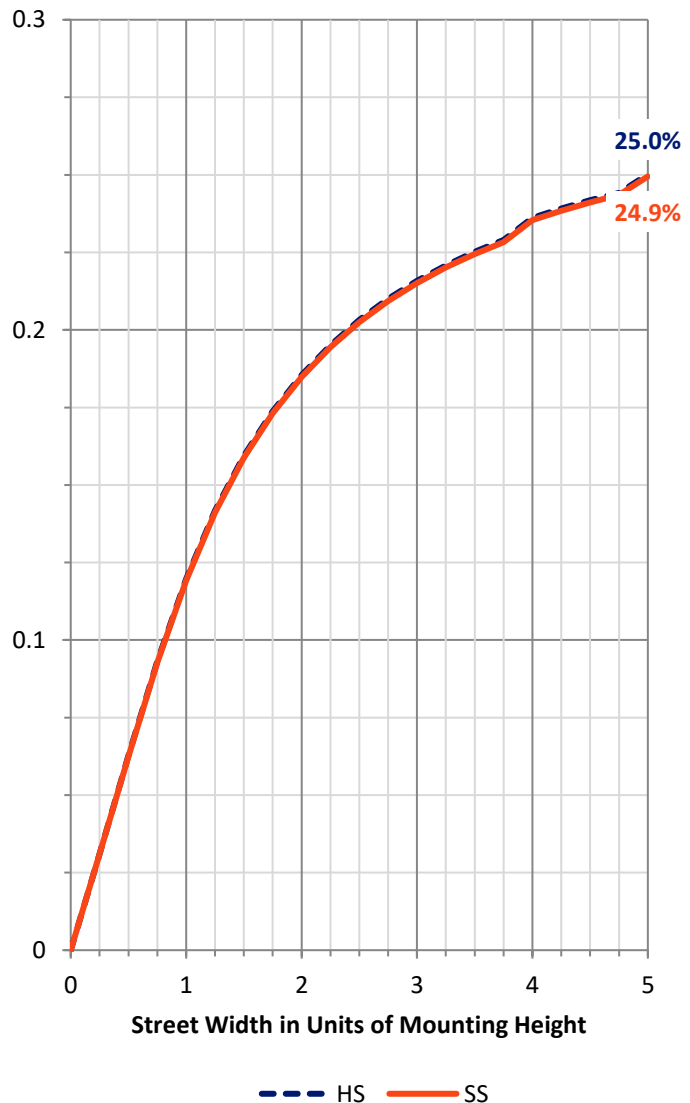
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3394.3	2570.9	5965.2
	% Fixture	28.5	21.5	50.0
Street Side	Lumens	3394.3	2570.9	5965.2
	% Fixture	28.5	21.5	50.0
Total	Lumens	6788.6	5141.8	11930.4
	% Fixture	56.9	43.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	0.2
10°-20°	104.1	0.9
20°-30°	273.7	2.3
30°-40°	523.3	4.4
40°-50°	804.4	6.7
50°-60°	1053.9	8.8
60°-70°	1243.8	10.4
70°-80°	1364.5	11.4
80°-90°	1402.0	11.8
90°-100°	1350.7	11.3
100°-110°	1211.1	10.2
110°-120°	984.1	8.2
120°-130°	703.2	5.9
130°-140°	444.7	3.7
140°-150°	249.1	2.1
150°-160°	125.4	1.1
160°-170°	57.0	0.5
170°-180°	16.5	0.1
0°-90°	6788.6	56.9
0°-180°	11930.4	100.0

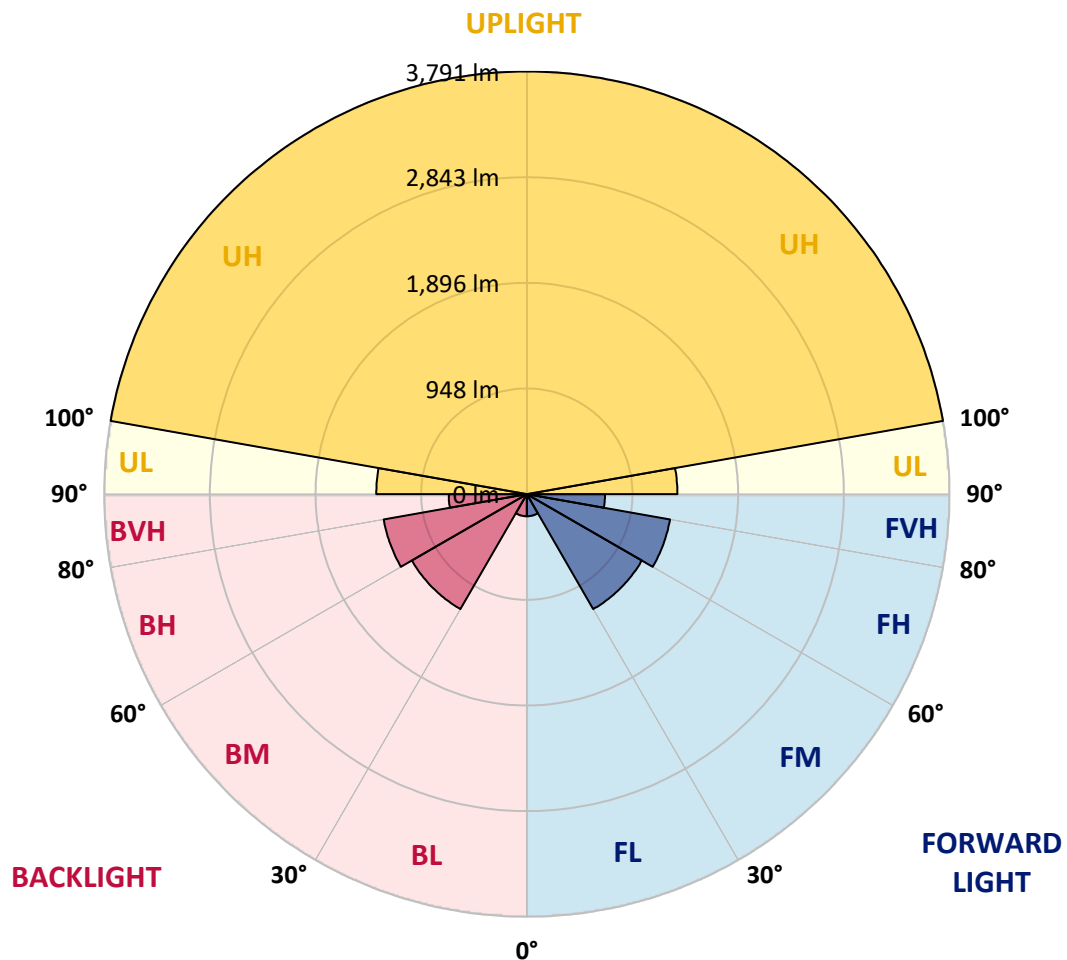


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.4	1.7			
FM (30°-60°)	1190.8	10.0			
FH (60°-80°)	1304.2	10.9			G1/1800
FVH (80°-90°)	701.0	5.9			G4/750
BL (0°-30°)	198.4	1.7	B1/500		
BM (30°-60°)	1190.8	10.0	B2/2500		
BH (60°-80°)	1304.2	10.9	B3/2500		G1/1800
BVH (80°-90°)	701.0	5.9			G4/750
UL (90°-100°)	1350.7	11.3		U5	
UH (100°-180°)	3791.1	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°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8
2.5°	157.1	157.1	156.4	154.9	154.2	153.4	152.0	149.8	149.0	149.0	149.0
5°	171.1	171.8	171.8	171.1	171.8	170.3	170.3	168.9	169.6	169.6	170.3
7.5°	205.6	205.6	206.3	206.3	207.0	205.6	206.3	205.6	206.3	206.3	205.6
10°	250.4	250.4	251.8	250.4	251.1	249.6	248.9	248.9	251.1	250.4	249.6
12.5°	301.0	302.5	301.7	301.0	302.5	301.0	299.5	300.3	303.2	301.7	301.0
15°	354.6	356.1	357.5	355.3	356.1	355.3	354.6	355.3	358.3	356.8	356.1
17.5°	408.9	409.7	411.1	408.2	408.9	409.7	408.9	409.7	411.9	411.1	410.4
20°	463.3	464.7	466.2	463.3	464.0	464.7	464.0	464.7	467.7	466.2	465.5
22.5°	520.5	521.3	524.2	520.5	522.0	522.7	521.3	522.7	525.7	524.2	523.5
25°	580.0	579.3	583.7	580.7	581.5	582.9	581.5	582.9	586.6	586.6	584.4
27.5°	640.9	640.9	644.6	642.4	643.9	643.1	644.6	646.1	649.8	650.5	648.3
30°	701.9	701.9	707.8	704.1	706.3	707.0	707.0	708.5	712.9	714.4	711.4
32.5°	762.8	762.8	765.8	766.5	768.0	768.7	770.2	770.2	776.0	776.8	775.3
35°	822.3	822.3	825.2	826.7	830.4	828.9	831.1	831.1	837.7	838.4	837.7
37.5°	878.8	879.6	883.2	884.7	887.6	887.6	889.1	890.6	896.4	898.6	897.9
40°	932.4	933.9	936.8	939.8	942.7	942.7	943.4	945.6	952.2	954.4	953.7
42.5°	980.9	981.6	986.0	990.4	993.4	993.4	994.1	995.6	1002.9	1005.8	1005.8
45°	1023.5	1025.7	1031.5	1037.4	1040.3	1039.6	1039.6	1041.8	1049.9	1053.6	1053.6
47.5°	1063.1	1066.0	1072.6	1078.5	1081.5	1081.5	1080.7	1082.9	1091.7	1096.1	1093.9
50°	1098.3	1100.5	1107.9	1116.7	1118.9	1118.9	1116.7	1118.9	1128.4	1134.3	1134.3
52.5°	1127.7	1129.9	1138.7	1148.3	1151.2	1150.5	1147.5	1149.7	1159.3	1165.9	1165.1
55°	1152.7	1155.6	1165.1	1176.9	1179.8	1177.6	1174.0	1176.2	1186.4	1195.3	1194.5
57.5°	1175.4	1177.6	1188.6	1201.1	1205.5	1201.9	1196.7	1198.9	1210.7	1220.2	1220.9
60°	1194.5	1196.7	1209.2	1223.9	1227.6	1223.1	1216.5	1218.7	1232.0	1243.0	1244.4
62.5°	1210.7	1212.9	1226.8	1243.0	1248.1	1241.5	1233.4	1235.6	1250.3	1262.8	1263.5
65°	1223.9	1226.1	1242.2	1259.1	1264.3	1256.9	1247.4	1249.6	1265.7	1279.7	1281.2
67.5°	1234.2	1237.1	1255.5	1273.8	1278.2	1269.4	1258.4	1260.6	1278.2	1294.4	1295.8
70°	1243.0	1246.6	1265.7	1285.6	1290.7	1280.4	1267.2	1270.1	1290.0	1306.1	1308.3
72.5°	1249.6	1253.3	1273.8	1295.1	1301.0	1288.5	1273.8	1276.7	1298.0	1315.7	1317.9
75°	1254.0	1257.7	1279.7	1302.4	1307.6	1294.4	1278.2	1281.2	1303.2	1322.3	1325.2
77.5°	1256.2	1259.9	1283.4	1306.8	1312.0	1296.6	1279.7	1282.6	1305.4	1325.9	1328.9
80°	1256.2	1259.1	1283.4	1308.3	1312.7	1297.3	1278.9	1281.2	1304.6	1326.7	1329.6
82.5°	1254.0	1256.9	1281.9	1306.8	1311.3	1294.4	1275.3	1278.2	1302.4	1324.5	1328.1
85°	1248.8	1251.8	1276.7	1302.4	1306.8	1288.5	1268.7	1271.6	1295.8	1319.3	1323.0
87.5°	1241.5	1245.2	1269.4	1295.1	1298.8	1279.7	1260.6	1262.1	1287.8	1312.0	1314.9
90°	1232.7	1236.4	1259.1	1284.8	1288.5	1269.4	1249.6	1251.8	1276.7	1301.7	1304.6
92.5°	1222.4	1225.4	1247.4	1270.9	1275.3	1255.5	1236.4	1239.3	1264.3	1289.2	1292.9
95°	1209.2	1211.4	1232.0	1254.0	1257.7	1240.0	1220.9	1223.9	1248.8	1273.1	1276.7
97.5°	1193.0	1194.5	1212.9	1232.7	1237.1	1220.2	1202.6	1205.5	1229.8	1254.0	1258.4
100°	1174.7	1175.4	1191.6	1208.5	1212.1	1198.2	1182.0	1185.7	1208.5	1233.4	1236.4
102.5°	1153.4	1153.4	1166.6	1180.6	1185.0	1173.2	1159.3	1162.9	1185.0	1208.5	1212.1
105°	1129.9	1127.7	1137.3	1148.3	1153.4	1144.6	1134.3	1137.3	1157.8	1180.6	1185.0
107.5°	1100.5	1098.3	1104.9	1114.5	1119.6	1113.0	1104.9	1109.4	1127.0	1148.3	1152.7
110°	1067.5	1064.6	1067.5	1074.8	1080.7	1076.3	1071.9	1075.6	1092.5	1112.3	1115.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1029.3	1025.7	1026.4	1031.5	1036.7	1035.9	1033.0	1038.9	1052.8	1069.0	1072.6
115°	985.3	981.6	979.4	982.3	986.7	989.7	992.6	996.3	1007.3	1020.5	1026.4
117.5°	939.0	933.1	929.5	929.5	934.6	939.8	944.9	950.0	957.4	969.9	972.1
120°	885.4	881.8	876.6	876.6	881.0	886.2	894.2	900.1	904.5	913.3	916.3
122.5°	832.6	827.4	822.3	822.3	825.2	832.6	843.6	848.7	850.9	856.1	858.3
125°	779.0	773.1	767.2	767.2	770.2	777.5	790.0	794.4	795.9	798.1	800.3
127.5°	724.6	718.8	713.6	711.4	715.8	721.7	734.2	740.1	740.8	740.8	742.3
130°	670.3	665.9	660.8	658.6	663.0	668.1	682.1	687.9	685.0	685.0	685.7
132.5°	618.9	614.5	609.4	607.9	610.8	617.4	629.9	635.1	632.9	629.9	630.7
135°	569.0	565.3	558.7	558.0	562.4	565.3	577.1	582.2	580.0	577.1	577.8
137.5°	521.3	517.6	511.7	511.0	515.4	519.1	527.9	533.0	530.1	527.1	527.9
140°	475.8	471.3	466.9	466.2	469.1	472.8	480.9	483.8	480.9	478.7	479.4
142.5°	433.2	430.2	425.1	425.1	426.6	429.5	436.1	439.0	436.1	433.2	431.7
145°	392.8	389.1	386.2	385.4	386.9	389.9	394.3	397.2	394.3	392.1	390.6
147.5°	356.8	353.9	350.9	350.9	351.7	353.9	357.5	358.3	356.1	354.6	353.1
150°	323.8	320.8	319.4	318.6	319.4	320.1	323.0	324.5	322.3	320.8	319.4
152.5°	293.7	291.5	290.0	290.7	290.7	291.5	292.2	292.9	290.7	290.7	289.3
155°	267.2	265.8	264.3	265.0	265.0	265.0	265.8	265.8	264.3	264.3	263.6
157.5°	245.2	243.7	243.0	243.7	243.7	243.0	243.7	243.7	242.3	242.3	241.5
160°	226.1	224.7	224.7	224.7	224.7	223.9	225.4	224.7	223.9	223.2	223.2
162.5°	210.7	209.2	209.2	210.0	209.2	209.2	209.2	209.2	208.5	208.5	207.8
165°	198.2	196.8	196.8	197.5	196.8	196.8	196.8	196.8	196.0	196.0	196.0
167.5°	188.0	187.2	187.2	187.2	187.2	186.5	187.2	187.2	186.5	186.5	186.5
170°	179.9	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	178.4	178.4
172.5°	174.7	174.0	174.0	174.0	174.0	174.0	174.0	174.0	173.3	173.3	173.3
175°	171.1	170.3	170.3	170.3	170.3	170.3	170.3	170.3	170.3	169.6	169.6
177.5°	168.9	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	167.4	167.4
180°	167.4	167.4	167.4	167.4	167.4	167.4	167.4	167.4	167.4	167.4	167.4

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-1

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-1
 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-100-740-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3901
 CIE u': 0.2273
 CIE v': 0.5026
 Duv: -0.0007
 CIE x: 0.3844
 CIE y: 0.3776
 CIE z: 0.2380
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 579
 Purity: 28.6799
 R_f: 76.2
 R_g: 94.4

CRI (Ra):	74.5		
R1:	71.8	R9:	-23.4
R2:	81.9	R10:	56.6
R3:	89.3	R11:	68.4
R4:	72.6	R12:	46.6
R5:	71.3	R13:	73.7
R6:	74.0	R14:	93.9
R7:	81.5	R15:	65.1
R8:	53.3		



Test Conditions

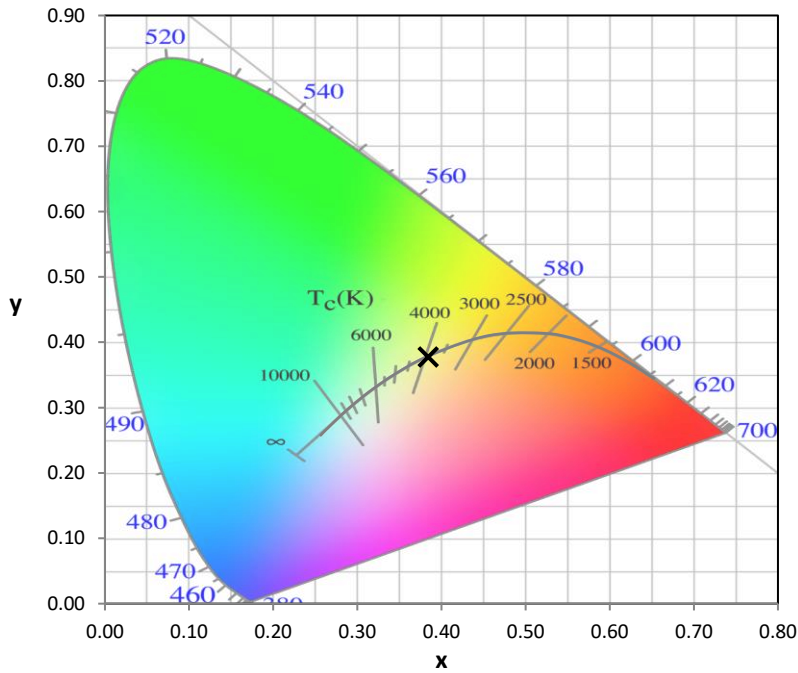
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

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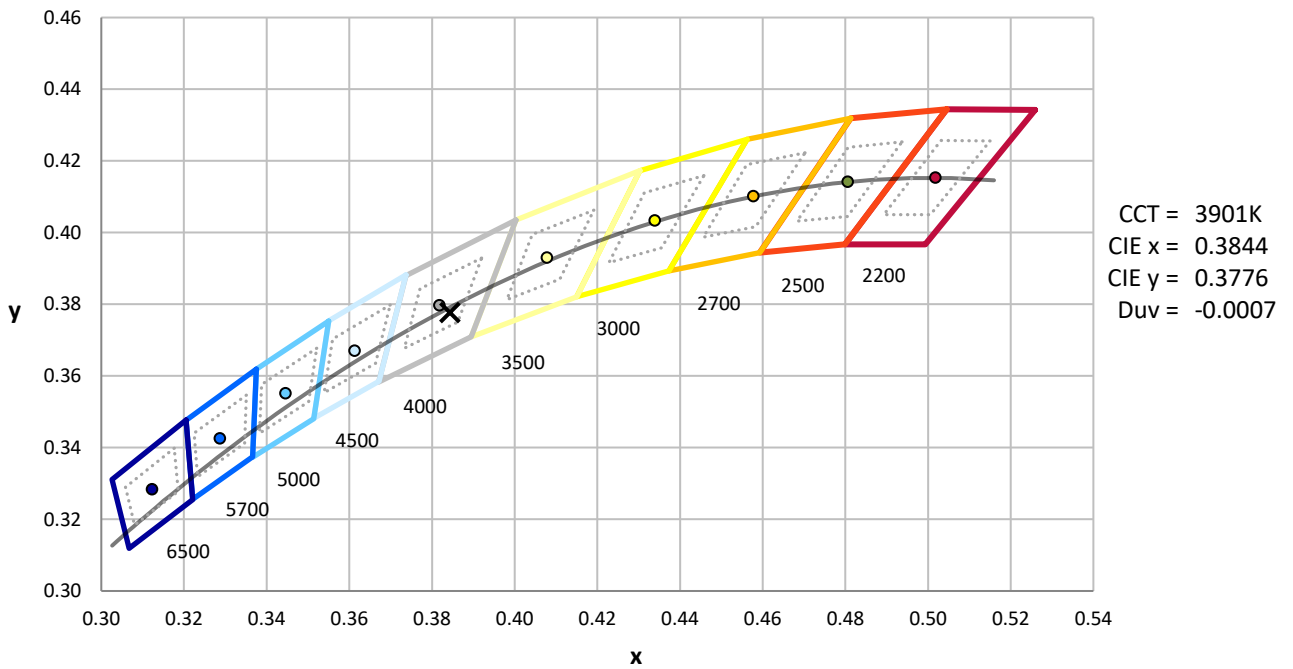
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



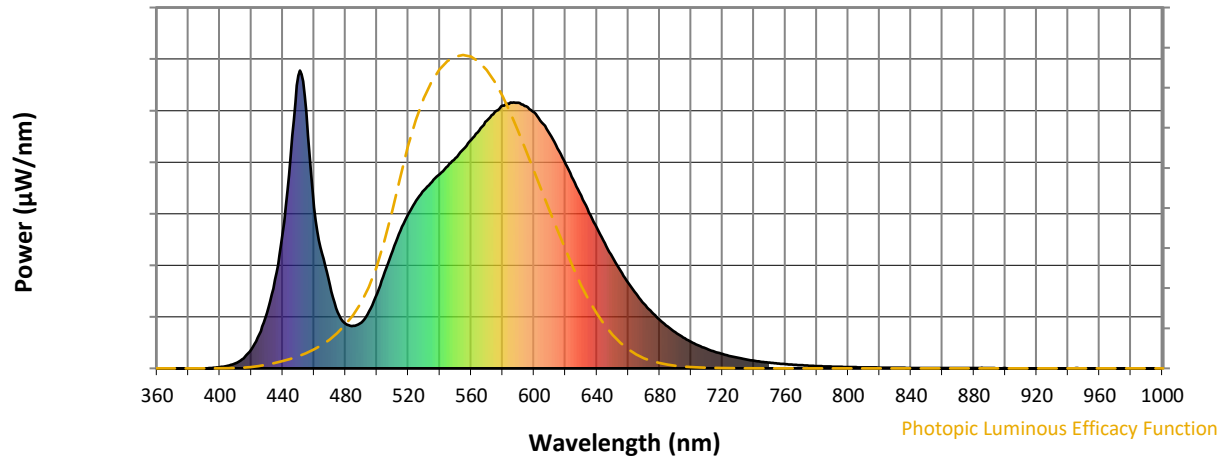
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.53

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Summary

$R_f = 76.2$
 $R_g = 94.4$
 CIE $R_a = 74.5$
 $R_g = -23.4$



Color Vector Graphics



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

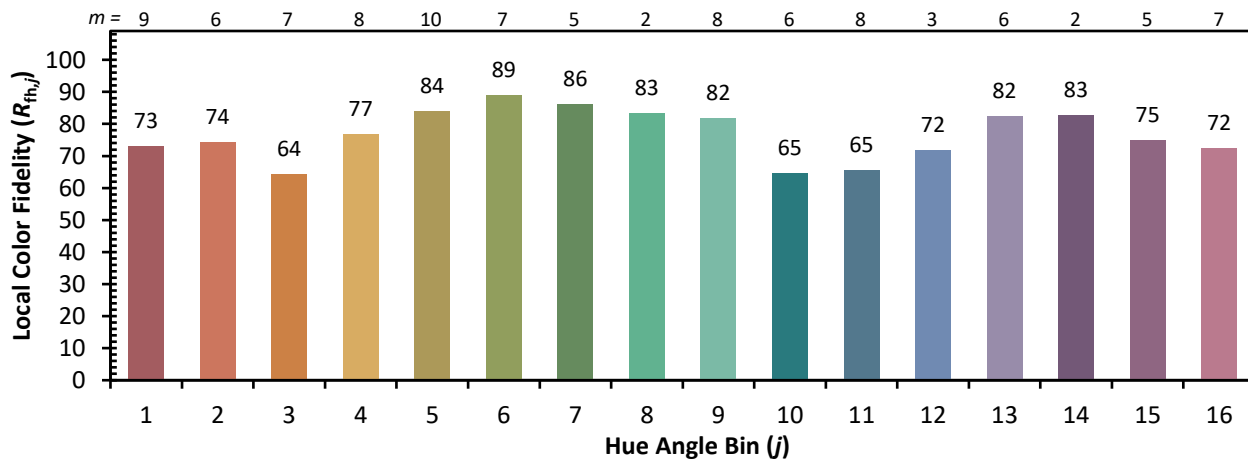
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CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 92
CES08 = 39	CES33 = 83	CES58 = 76	CES83 = 92
CES09 = 29	CES34 = 74	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 85	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 73
CES12 = 63	CES37 = 81	CES62 = 84	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 74	CES88 = 83
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 59	CES91 = 73
CES17 = 49	CES42 = 83	CES67 = 57	CES92 = 60
CES18 = 56	CES43 = 80	CES68 = 66	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 74	CES94 = 55
CES20 = 65	CES45 = 87	CES70 = 59	CES95 = 67
CES21 = 86	CES46 = 85	CES71 = 52	CES96 = 78
CES22 = 78	CES47 = 90	CES72 = 84	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 51	CES98 = 79
CES24 = 91	CES49 = 83	CES74 = 92	CES99 = 68
CES25 = 72	CES50 = 89	CES75 = 56	



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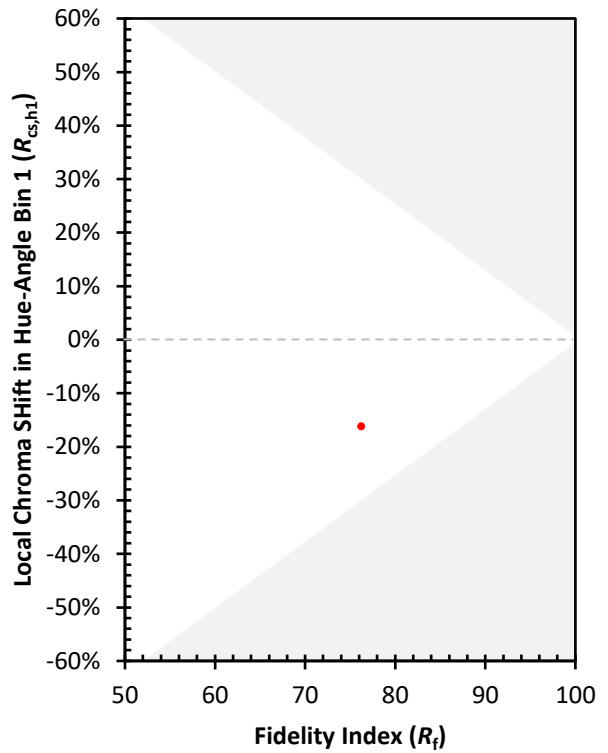
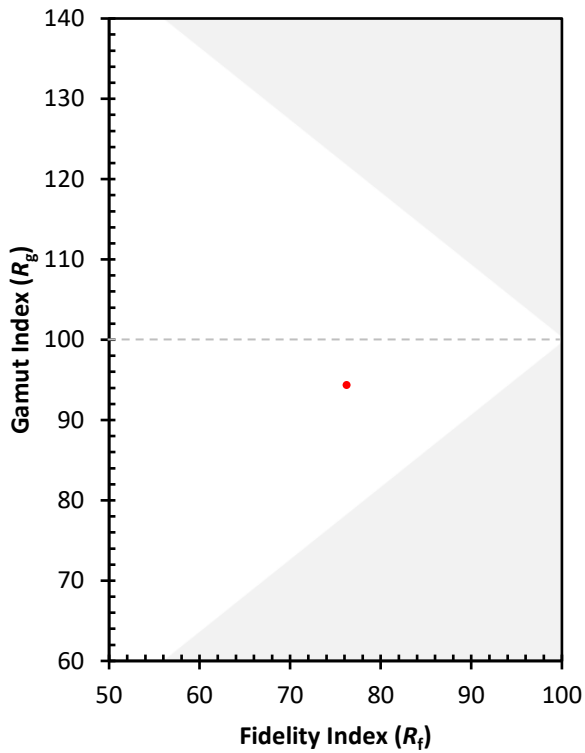
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)