

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: P856373

Luminaire Tested: **FFX-CLB-80-722-U-VM9**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856373
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-722-U-VM9
Description: FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

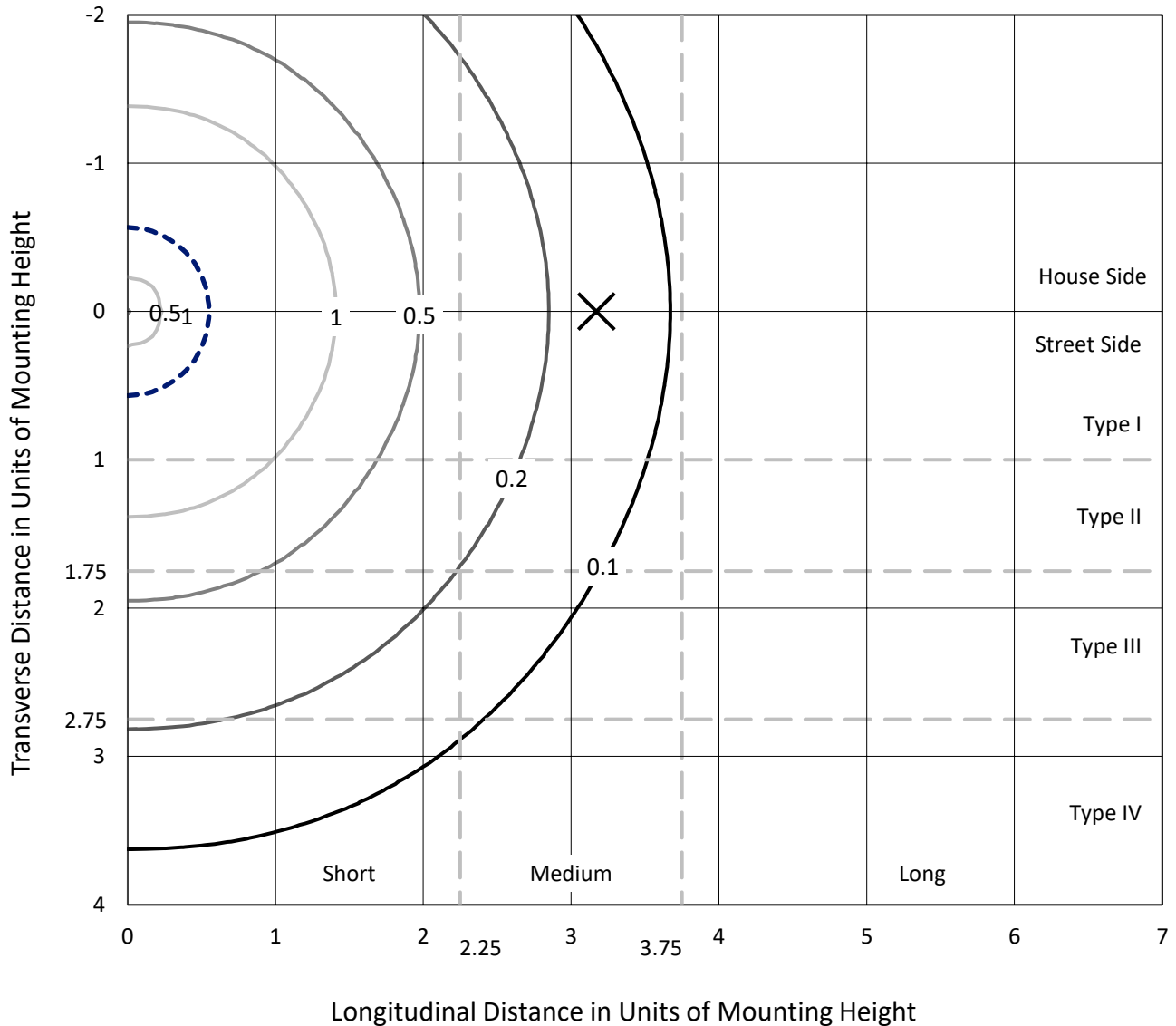
Lumens per Lamp: N/A
Luminaire Lumens: 10950.1 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.1%%
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

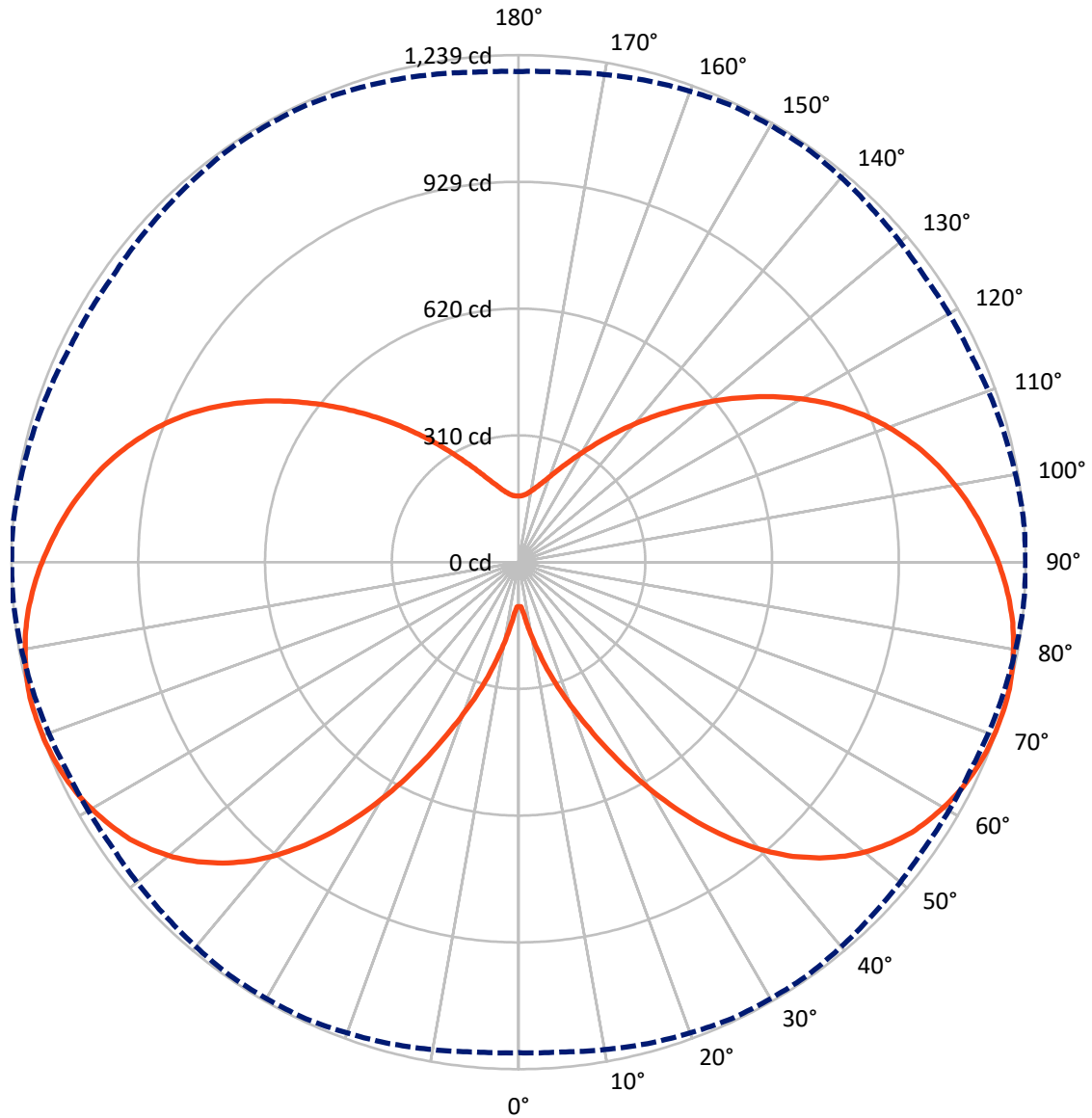
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 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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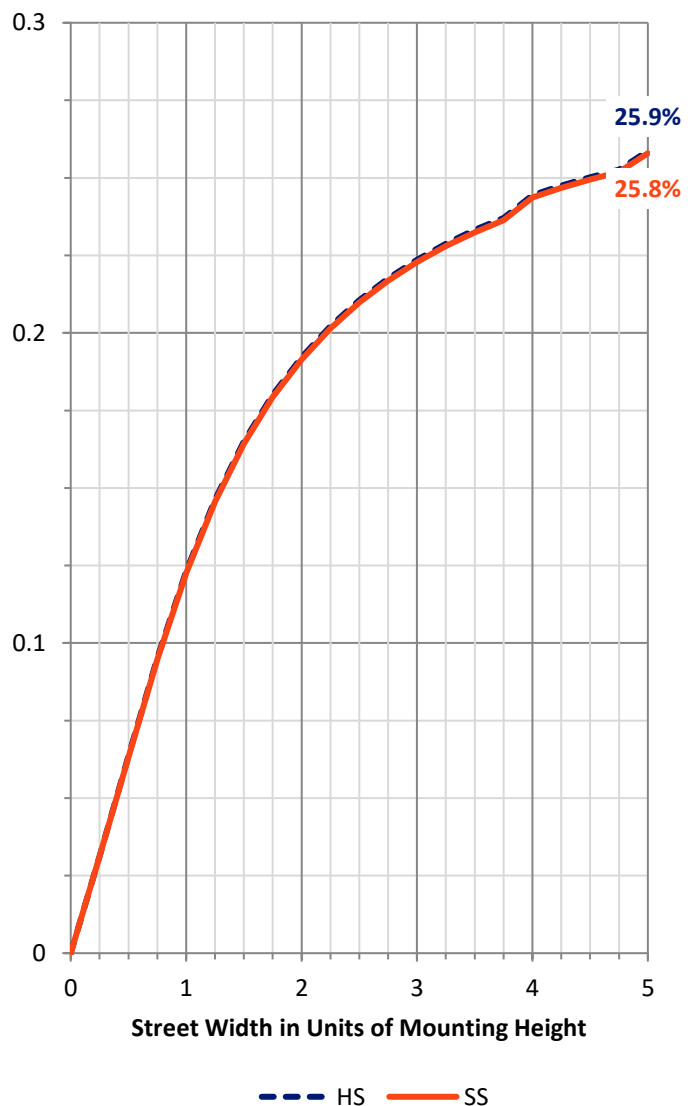
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3207.2	2267.9	5475.0
	% Fixture	29.3	20.7	50.0
Street Side	Lumens	3207.2	2267.9	5475.0
	% Fixture	29.3	20.7	50.0
Total	Lumens	6414.3	4535.7	10950.1
	% Fixture	58.6	41.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.1
10°-20°	82.1	0.8
20°-30°	237.4	2.2
30°-40°	493.7	4.5
40°-50°	783.5	7.2
50°-60°	1028.5	9.4
60°-70°	1199.3	11.0
70°-80°	1288.2	11.8
80°-90°	1287.6	11.8
90°-100°	1205.2	11.0
100°-110°	1057.5	9.7
110°-120°	850.5	7.8
120°-130°	610.8	5.6
130°-140°	392.6	3.6
140°-150°	227.8	2.1
150°-160°	119.6	1.1
160°-170°	55.7	0.5
170°-180°	16.0	0.1
0°-90°	6414.3	58.6
0°-180°	10950.1	100.0



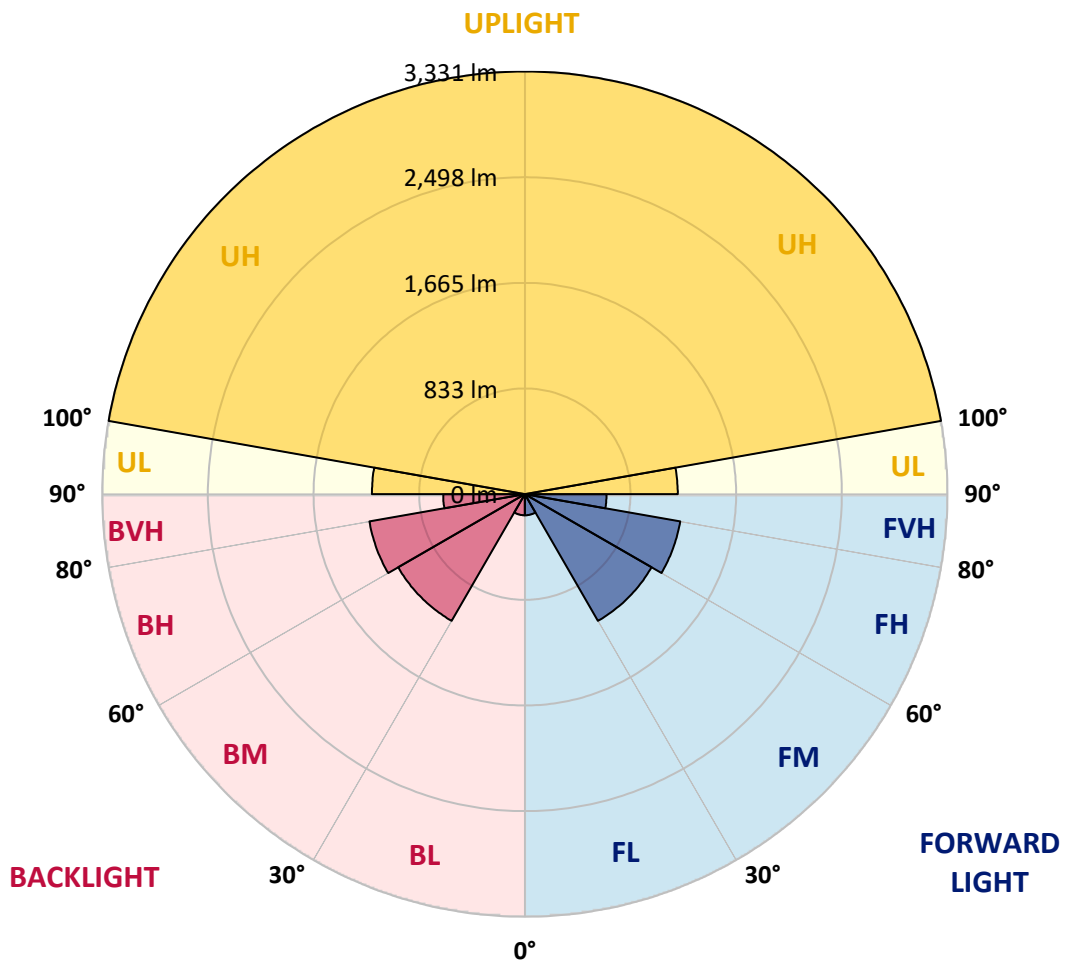
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.8	1.5			
FM (30°-60°)	1152.9	10.5			
FH (60°-80°)	1243.7	11.4			G1/1800
FVH (80°-90°)	643.8	5.9			G4/750
BL (0°-30°)	166.8	1.5	B1/500		
BM (30°-60°)	1152.9	10.5	B2/2500		
BH (60°-80°)	1243.7	11.4	B3/2500		G1/1800
BVH (80°-90°)	643.8	5.9			G4/750
UL (90°-100°)	1205.2	11.0		U5	
UH (100°-180°)	3330.5	30.4		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°	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5
2.5°	112.8	112.8	112.1	112.1	111.4	110.7	110.7	110.0	109.3	109.3	109.3
5°	125.5	124.8	124.8	124.8	124.8	124.1	124.8	124.1	124.1	124.1	124.8
7.5°	153.0	152.2	152.2	152.2	153.0	153.0	153.7	154.4	155.1	155.1	155.1
10°	188.9	188.2	188.2	187.5	188.9	188.9	189.6	188.2	190.3	190.3	191.0
12.5°	231.2	230.5	230.5	229.8	231.2	230.5	231.9	230.5	234.0	232.6	232.6
15°	277.0	277.0	276.3	275.6	277.7	277.7	279.1	279.1	281.2	279.8	280.5
17.5°	325.6	324.9	324.9	324.2	326.3	326.3	326.3	327.8	330.6	327.8	329.9
20°	377.8	377.1	377.1	376.4	378.5	378.5	379.9	380.6	383.4	381.3	382.7
22.5°	434.2	433.5	433.5	433.5	436.3	437.0	437.0	439.1	442.6	439.1	441.9
25°	496.9	496.2	496.2	498.3	500.4	501.1	502.6	505.4	508.9	505.4	508.9
27.5°	563.9	563.2	564.6	567.4	569.5	570.9	573.0	573.7	578.7	575.1	580.1
30°	632.9	632.2	633.7	637.2	640.0	644.2	644.2	646.3	653.4	648.5	653.4
32.5°	701.3	700.6	702.7	707.0	711.2	715.4	716.1	718.9	726.0	722.5	727.4
35°	769.0	768.3	771.1	776.7	781.0	785.2	786.6	789.4	797.2	793.7	798.6
37.5°	833.1	833.1	835.9	842.3	847.2	852.9	852.2	855.7	862.7	860.6	865.5
40°	893.0	893.0	896.6	904.3	909.9	913.5	912.8	916.3	924.0	923.3	927.6
42.5°	947.3	947.3	952.2	960.0	965.6	967.7	967.7	971.3	979.7	979.0	983.3
45°	993.1	995.2	1000.9	1009.3	1014.3	1016.4	1015.0	1018.5	1027.7	1027.7	1031.2
47.5°	1035.4	1038.2	1043.9	1052.3	1055.9	1058.0	1056.6	1059.4	1068.5	1069.9	1073.5
50°	1072.1	1074.2	1081.2	1090.4	1093.9	1093.9	1091.8	1094.6	1104.5	1107.3	1110.1
52.5°	1103.8	1105.9	1113.6	1123.5	1125.6	1124.9	1122.1	1124.9	1134.8	1137.6	1139.7
55°	1129.2	1131.3	1140.4	1150.3	1152.4	1150.3	1146.1	1149.6	1158.8	1163.0	1166.5
57.5°	1149.6	1151.7	1162.3	1172.1	1174.3	1170.0	1165.1	1168.6	1179.2	1184.1	1185.5
60°	1166.5	1168.6	1179.9	1190.5	1191.9	1187.0	1181.3	1184.8	1195.4	1201.0	1202.5
62.5°	1179.9	1182.0	1194.0	1206.0	1206.7	1200.3	1194.0	1197.5	1208.1	1214.4	1216.6
65°	1189.1	1191.2	1204.6	1216.6	1218.0	1210.2	1203.9	1207.4	1217.3	1225.0	1226.4
67.5°	1195.4	1197.5	1212.3	1225.0	1225.7	1217.3	1210.2	1213.0	1224.3	1232.1	1233.5
70°	1198.2	1200.3	1215.8	1229.2	1229.9	1220.8	1212.3	1215.8	1227.1	1236.3	1237.7
72.5°	1198.9	1201.8	1218.0	1231.4	1232.1	1221.5	1213.0	1215.8	1227.8	1238.4	1239.1
75°	1196.1	1199.6	1216.6	1230.7	1230.7	1218.7	1209.5	1212.3	1225.7	1237.0	1239.1
77.5°	1192.6	1194.7	1212.3	1226.4	1225.7	1213.0	1202.5	1206.7	1220.1	1232.8	1234.2
80°	1184.8	1187.7	1205.3	1218.7	1217.3	1203.2	1193.3	1197.5	1211.6	1225.0	1226.4
82.5°	1175.0	1177.8	1195.4	1207.4	1206.0	1191.2	1181.3	1186.2	1201.0	1215.1	1216.6
85°	1163.0	1165.8	1182.7	1194.0	1191.9	1177.1	1167.2	1171.4	1187.7	1201.8	1203.2
87.5°	1147.5	1150.3	1167.2	1177.1	1175.0	1159.5	1151.0	1156.6	1171.4	1186.2	1187.0
90°	1129.9	1133.4	1148.2	1157.3	1154.5	1140.4	1132.7	1138.3	1153.1	1167.2	1168.6
92.5°	1112.2	1113.6	1127.7	1135.5	1133.4	1120.7	1113.6	1120.0	1133.4	1147.5	1147.5
95°	1091.1	1093.2	1105.9	1112.2	1110.1	1099.6	1093.2	1100.3	1112.2	1125.6	1126.3
97.5°	1068.5	1070.7	1081.2	1087.6	1085.5	1076.3	1072.1	1079.1	1089.7	1102.4	1103.1
100°	1044.6	1046.0	1055.1	1060.8	1058.7	1051.6	1048.8	1055.9	1065.7	1077.7	1077.7
102.5°	1017.8	1019.2	1026.2	1029.8	1029.1	1023.4	1023.4	1031.2	1038.9	1050.2	1051.6
105°	989.6	991.0	995.9	998.1	997.3	995.2	996.6	1004.4	1010.7	1020.6	1022.0
107.5°	957.9	959.3	962.1	962.8	962.8	962.8	967.7	974.8	981.8	988.9	989.6
110°	924.0	924.8	926.9	926.2	926.2	927.6	934.6	942.4	948.0	955.1	955.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	887.4	888.1	889.5	886.7	887.4	890.2	899.4	907.8	911.4	918.4	918.4
115°	848.6	847.9	849.3	845.8	845.1	850.0	859.9	869.8	872.6	877.5	878.2
117.5°	806.3	807.0	806.3	802.1	801.4	808.5	817.6	826.8	830.3	835.9	834.5
120°	762.6	761.9	762.6	757.7	757.0	764.8	773.9	783.1	785.2	790.1	788.7
122.5°	718.2	717.5	716.8	711.9	711.9	718.2	729.5	738.7	737.3	742.9	742.2
125°	672.4	672.4	671.0	666.1	666.1	673.8	683.0	691.4	690.0	696.4	694.3
127.5°	627.3	627.3	625.9	621.7	621.7	628.7	637.2	645.6	643.5	649.2	647.0
130°	582.9	582.9	581.5	577.3	577.3	582.9	592.1	599.1	596.3	601.2	600.5
132.5°	540.6	539.9	539.2	535.0	535.7	541.3	548.4	554.7	551.9	557.5	555.4
135°	499.7	499.0	498.3	494.1	494.8	500.4	506.8	511.7	509.6	513.1	512.4
137.5°	461.0	460.3	459.6	456.0	456.7	461.0	467.3	471.5	468.7	473.7	471.5
140°	424.3	423.6	422.2	420.1	420.8	425.0	428.5	433.5	430.7	434.9	432.8
142.5°	389.1	389.1	387.7	385.5	386.3	390.5	393.3	396.8	394.0	397.5	396.1
145°	356.6	356.6	355.2	353.8	353.8	357.4	359.5	363.0	360.2	363.7	362.3
147.5°	327.0	327.0	325.6	324.2	324.2	327.8	329.2	332.0	329.2	332.0	330.6
150°	299.6	299.6	298.9	297.4	298.1	299.6	301.0	303.1	301.0	303.1	302.4
152.5°	275.6	275.6	274.9	274.2	273.5	275.6	276.3	278.4	276.3	278.4	277.0
155°	254.4	253.7	253.7	252.3	252.3	253.7	254.4	255.9	253.7	255.9	255.2
157.5°	235.4	235.4	234.7	234.0	234.0	234.7	235.4	236.1	234.7	236.8	235.4
160°	219.2	219.2	218.5	217.8	217.8	218.5	218.5	219.2	217.8	219.2	218.5
162.5°	205.1	205.1	204.4	204.4	203.7	204.4	205.1	205.1	204.4	205.1	204.4
165°	193.8	193.8	193.1	192.4	192.4	193.1	193.1	193.8	192.4	193.1	193.1
167.5°	183.3	183.3	183.3	182.6	181.8	182.6	182.6	182.6	181.8	182.6	182.6
170°	175.5	175.5	175.5	174.8	174.1	174.8	174.8	174.8	174.1	174.8	174.8
172.5°	169.2	169.2	169.2	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5
175°	164.9	164.9	164.9	164.9	164.2	164.9	164.9	164.9	164.9	164.9	164.2
177.5°	162.8	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1
180°	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4

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.

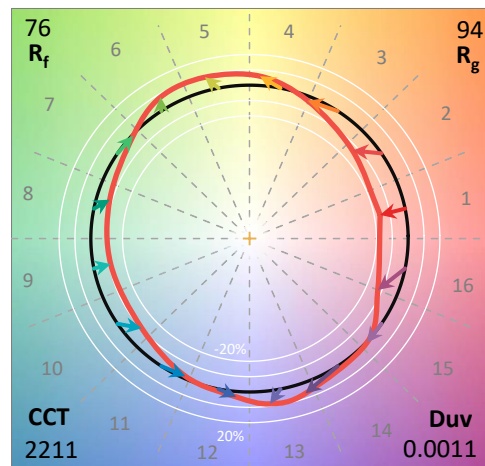
Test Information

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



Test Conditions

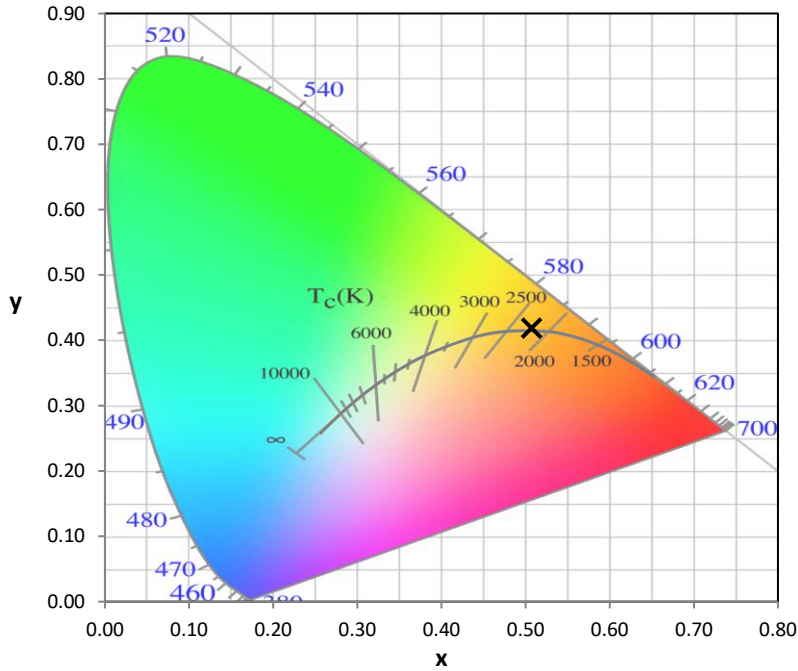
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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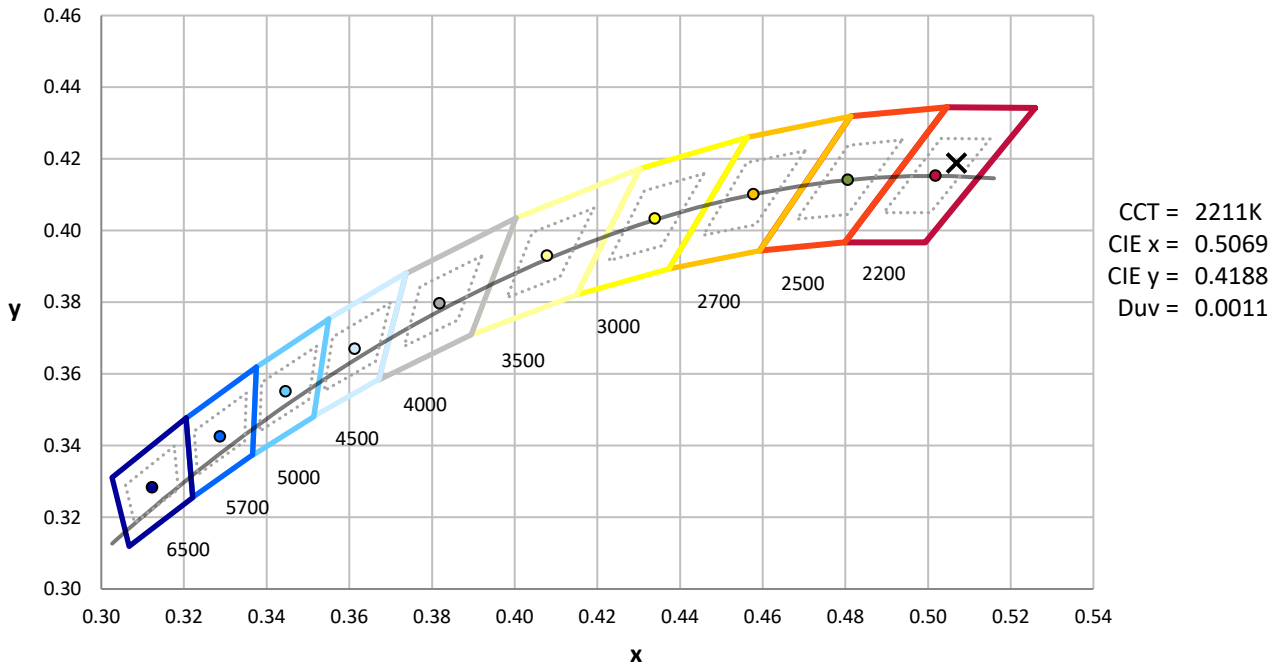
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



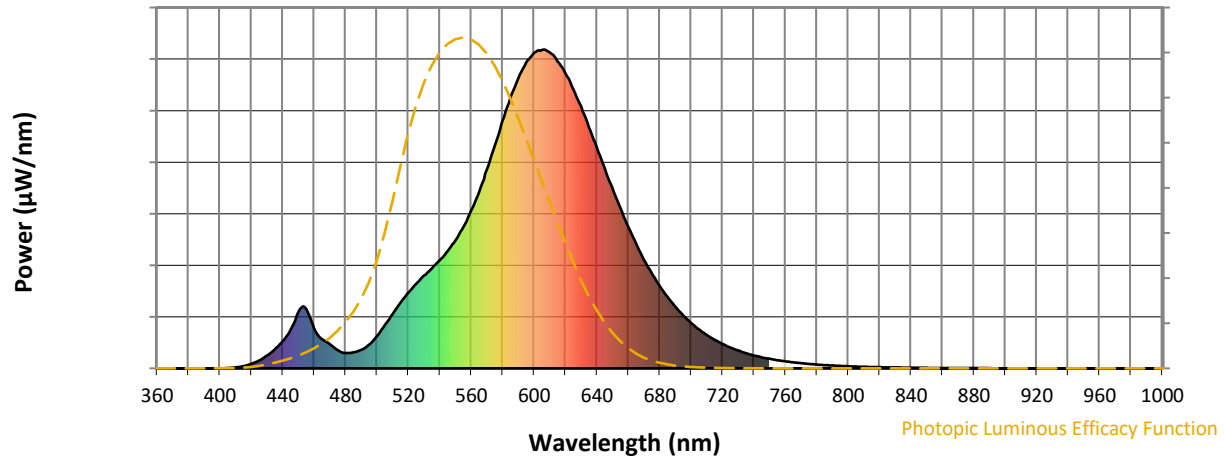
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

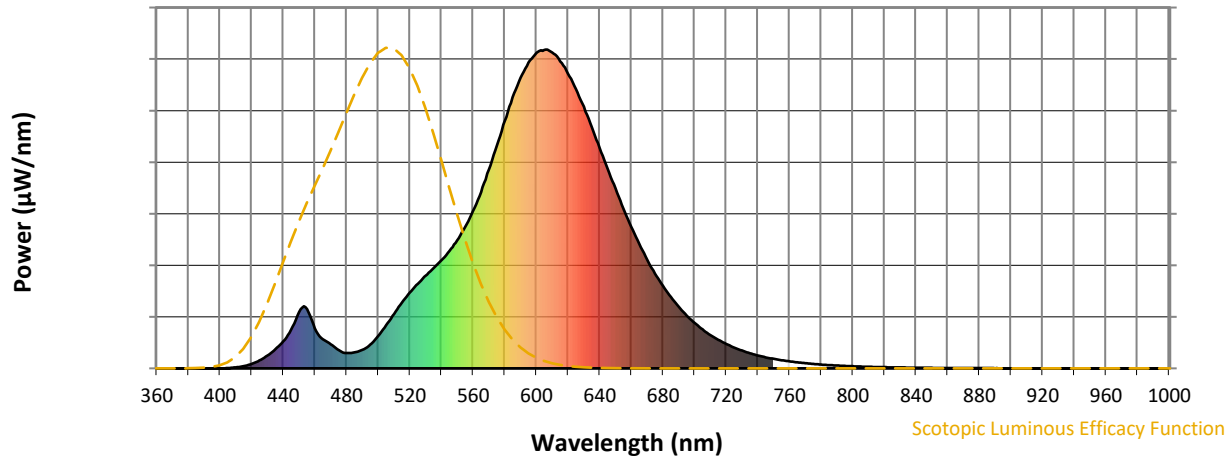


Photopic Lumens: NR

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



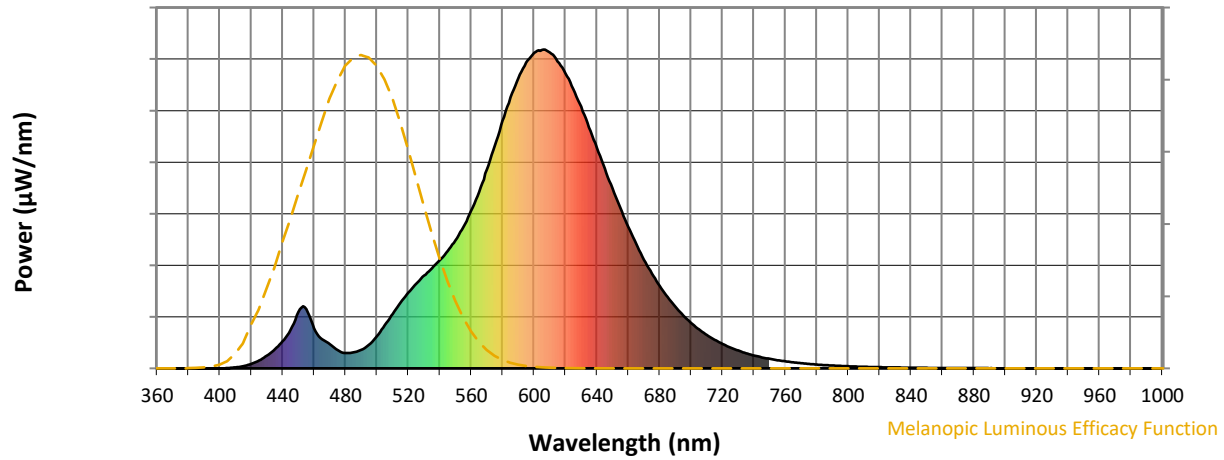
Scotopic Lumens: NR

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

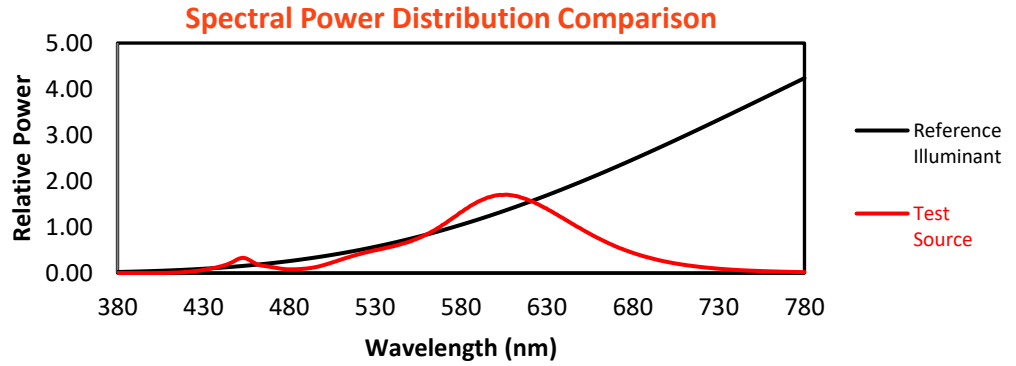
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	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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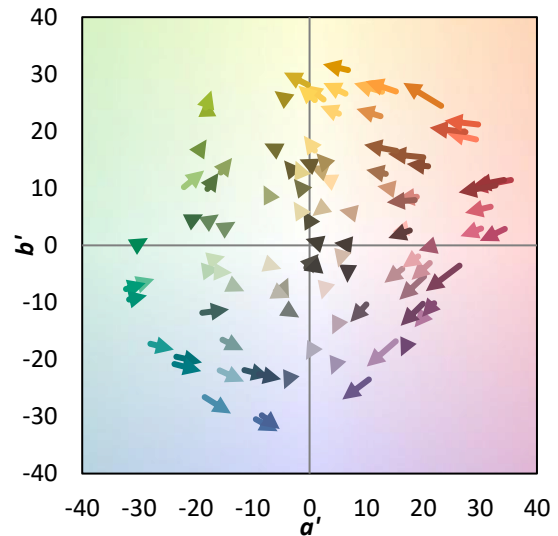
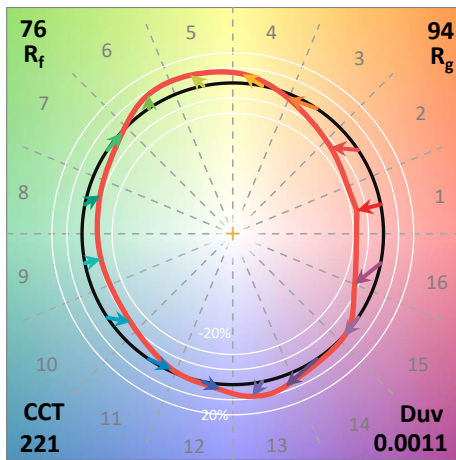
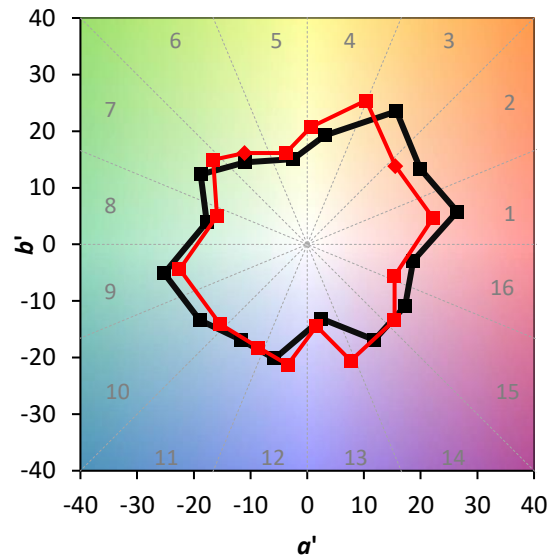
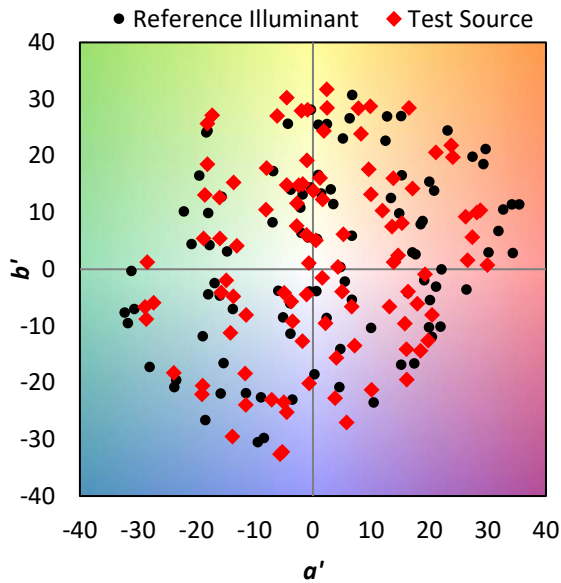
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Summary

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



Color Vector Graphics

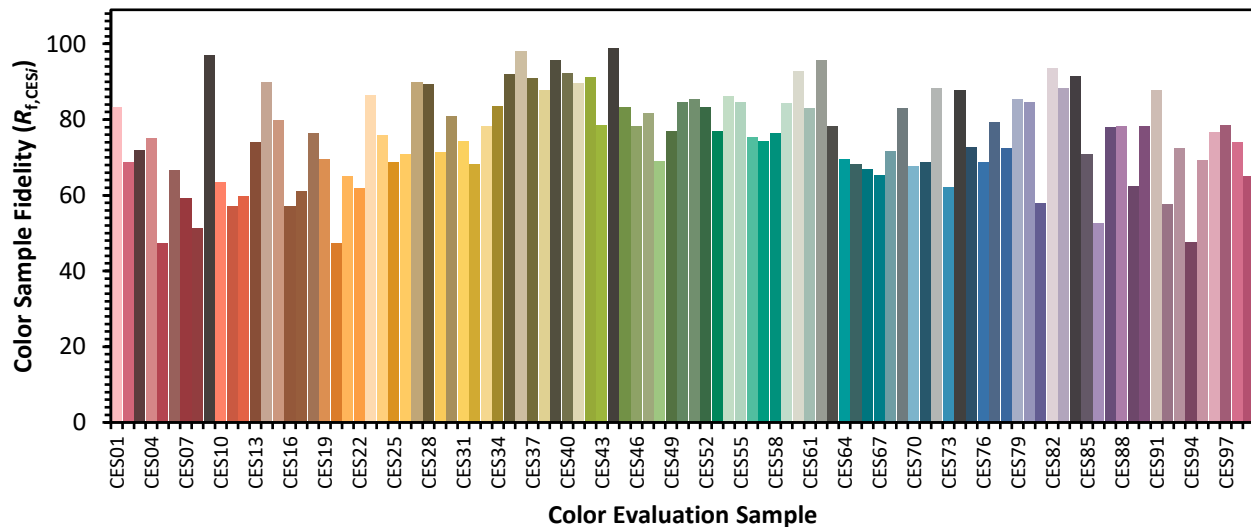


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Individual Sample Fidelity Index ($R_{f,i}$)

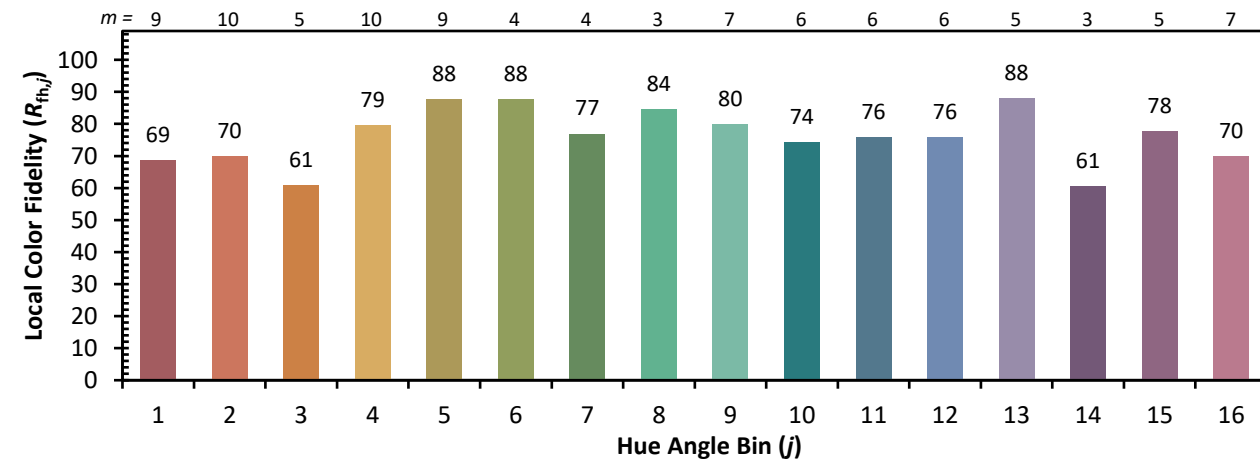
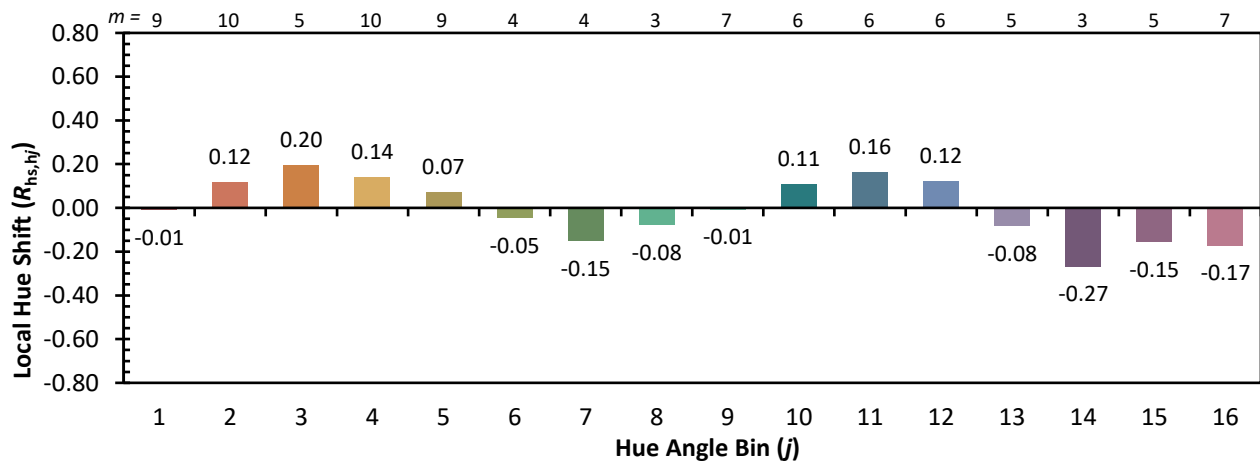
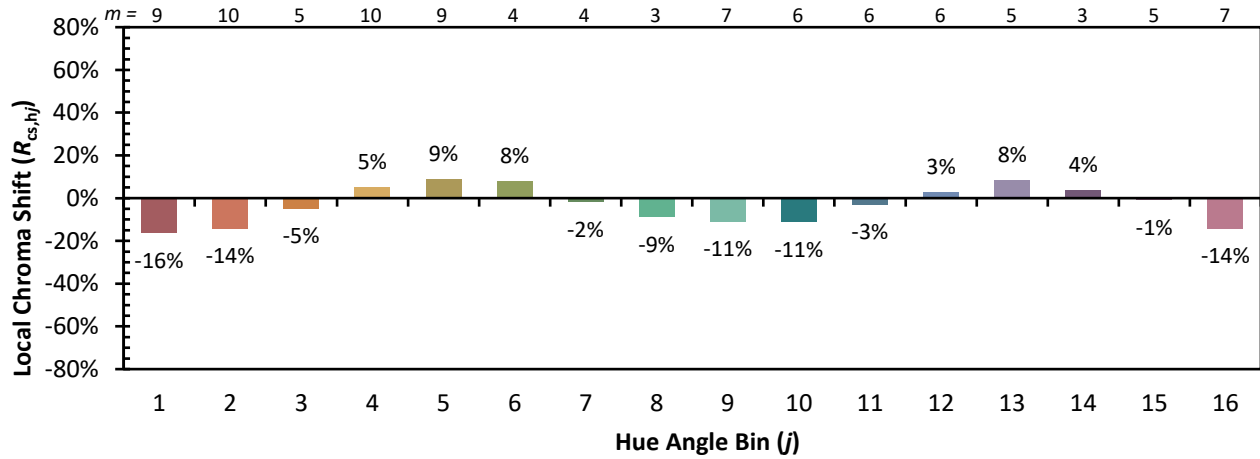
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CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 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	



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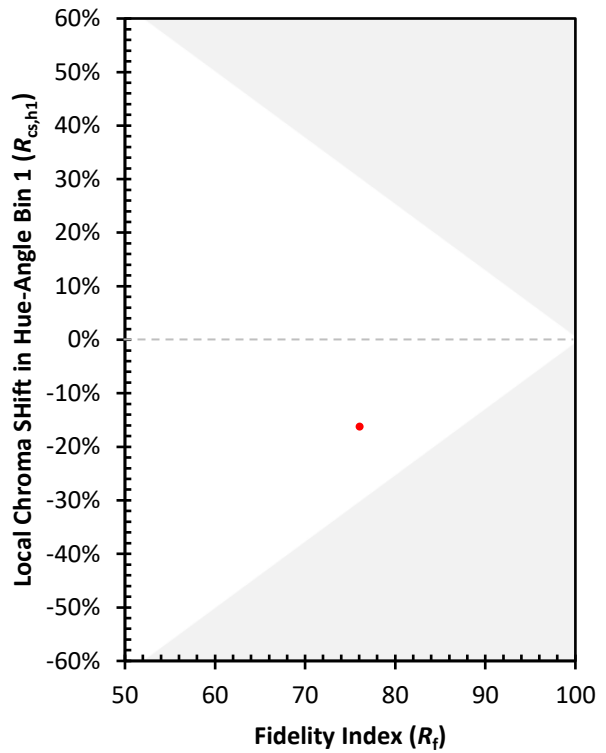
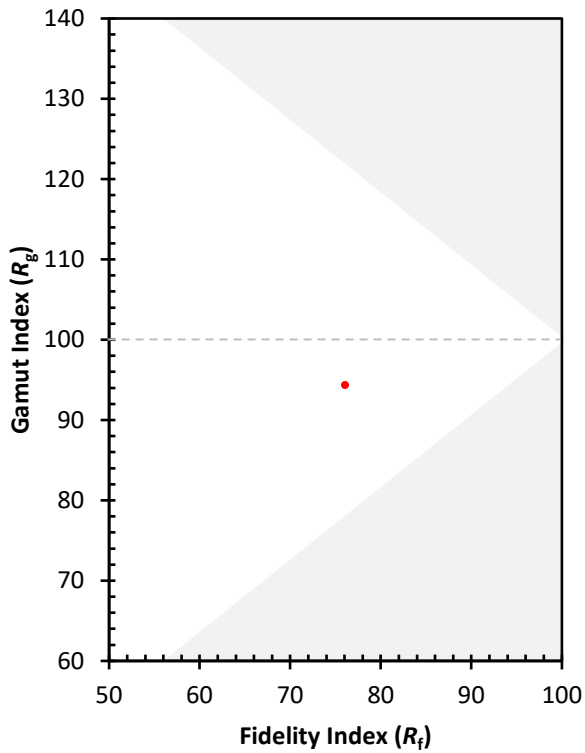
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)