

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: P856283

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856283
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-FG
Description: FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

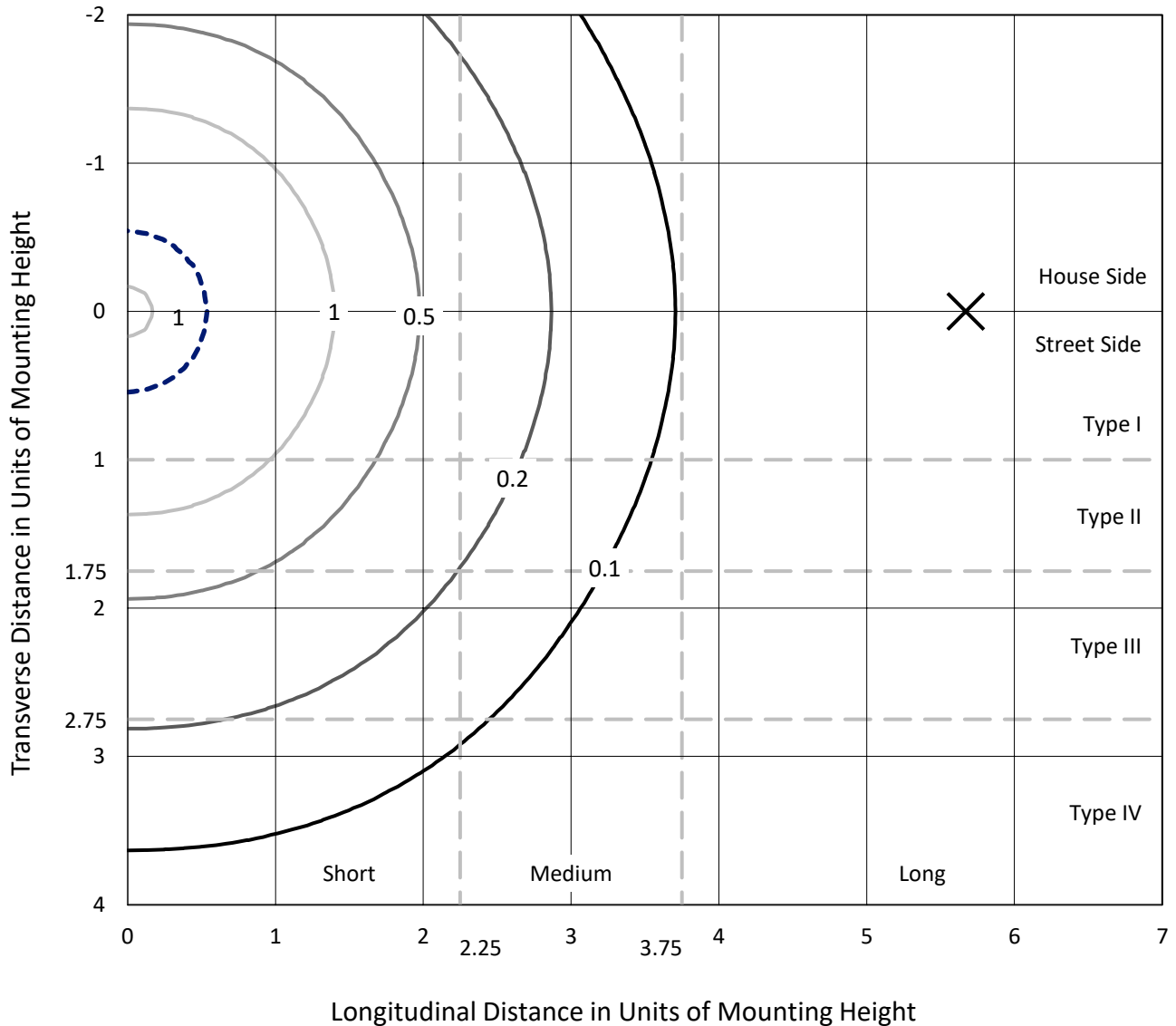
Lumens per Lamp: N/A
Luminaire Lumens: 11453.5 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1.5')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 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

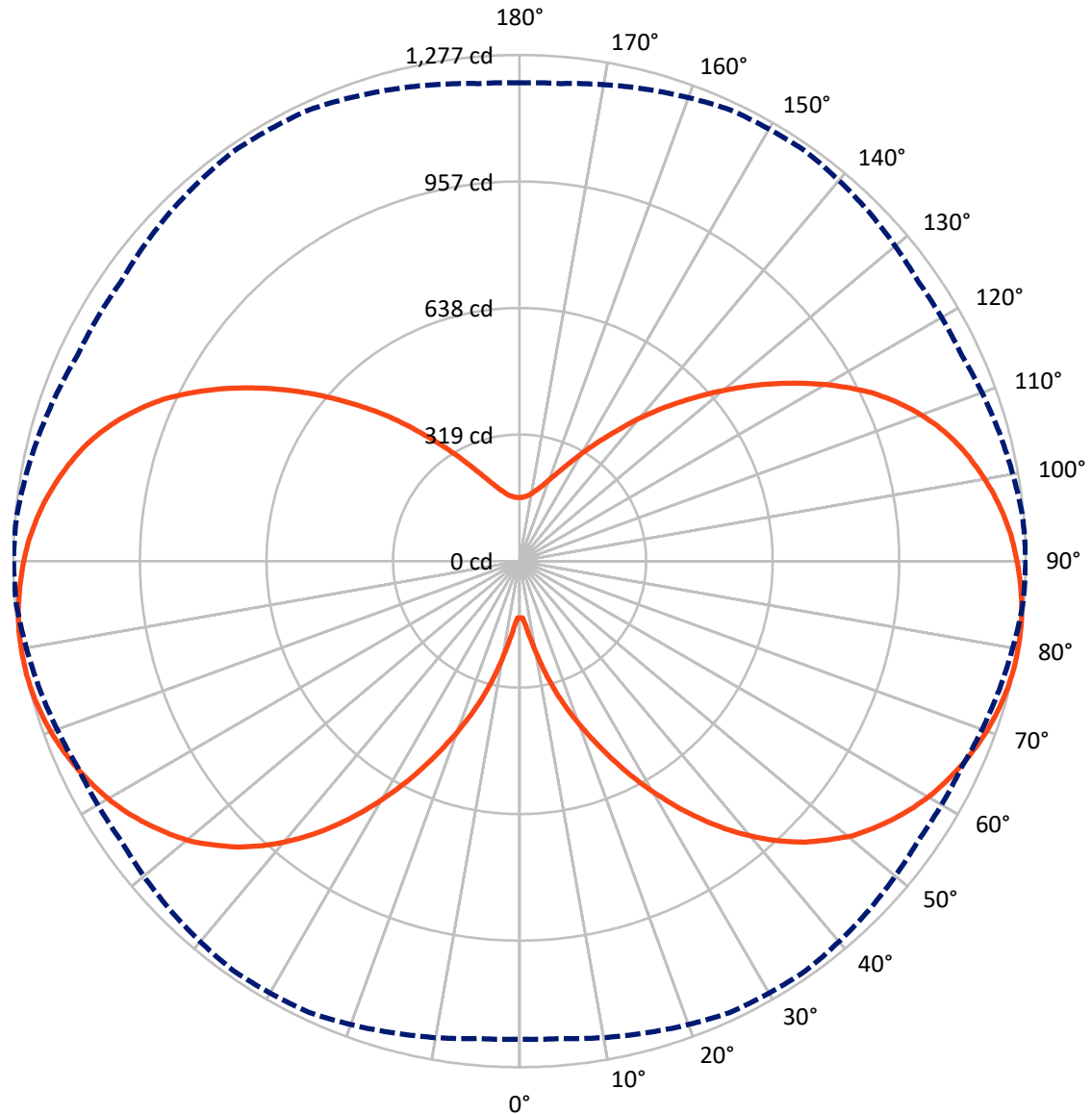
× Max cd
 - - - 1/2 Max cd



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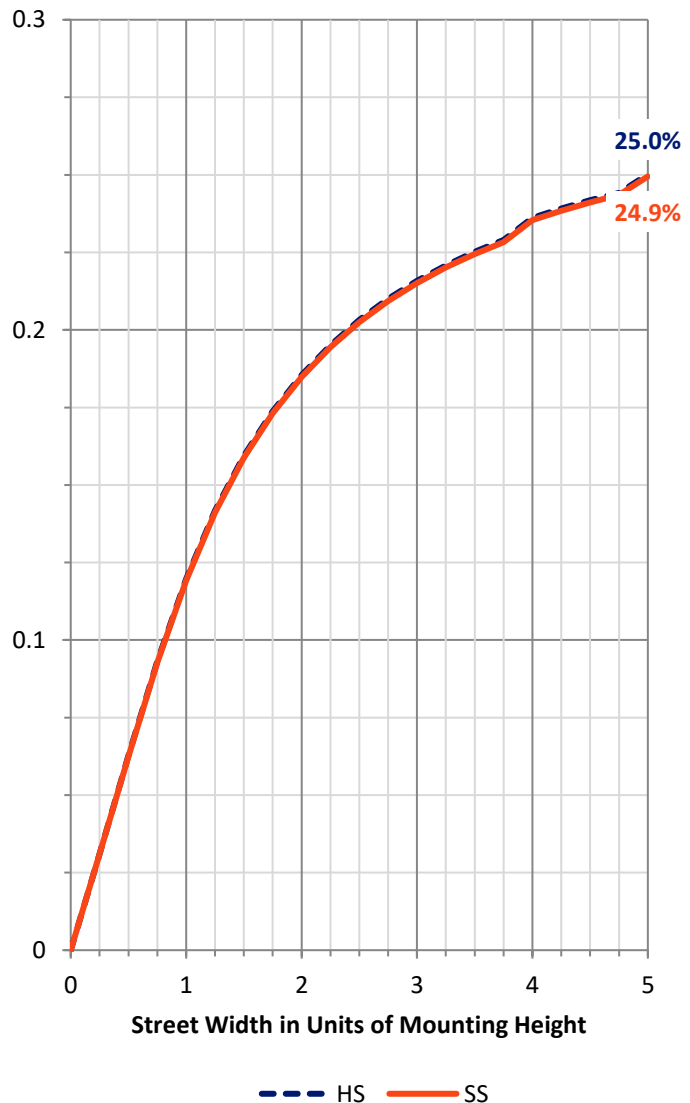
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3258.6	2468.1	5726.8
	% Fixture	28.5	21.5	50.0
Street Side	Lumens	3258.6	2468.1	5726.8
	% Fixture	28.5	21.5	50.0
Total	Lumens	6517.3	4936.2	11453.5
	% Fixture	56.9	43.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	0.2
10°-20°	99.9	0.9
20°-30°	262.8	2.3
30°-40°	502.4	4.4
40°-50°	772.3	6.7
50°-60°	1011.8	8.8
60°-70°	1194.1	10.4
70°-80°	1310.0	11.4
80°-90°	1345.9	11.8
90°-100°	1296.7	11.3
100°-110°	1162.7	10.2
110°-120°	944.8	8.2
120°-130°	675.1	5.9
130°-140°	426.9	3.7
140°-150°	239.1	2.1
150°-160°	120.4	1.1
160°-170°	54.7	0.5
170°-180°	15.9	0.1
0°-90°	6517.3	56.9
0°-180°	11453.5	100.0



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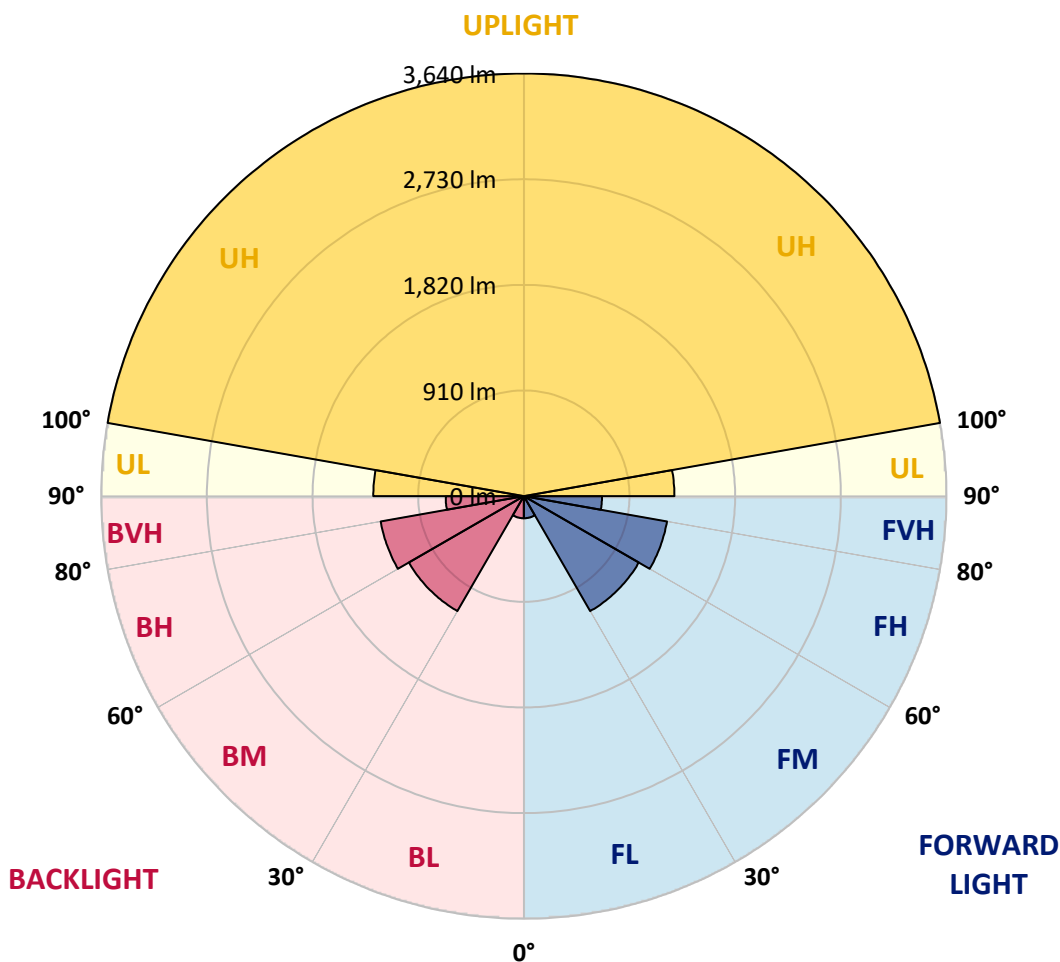
CATALOG NUMBER: FFX-CLB-80-722-U-FG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	190.4	1.7			
FM	(30°-60°)	1143.2	10.0			
FH	(60°-80°)	1252.0	10.9			G1/1800
FVH	(80°-90°)	673.0	5.9			G4/750
BL	(0°-30°)	190.4	1.7	B1/500		
BM	(30°-60°)	1143.2	10.0	B2/2500		
BH	(60°-80°)	1252.0	10.9	B3/2500		G1/1800
BVH	(80°-90°)	673.0	5.9			G4/750
UL	(90°-100°)	1296.7	11.3		U5	
UH	(100°-180°)	3639.6	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°	143.8	143.8	143.8	143.8	143.8	143.8	143.8	143.8	143.8	143.8	143.8
2.5°	150.8	150.8	150.1	148.7	148.0	147.3	145.9	143.8	143.1	143.1	143.1
5°	164.2	164.9	164.9	164.2	164.9	163.5	163.5	162.1	162.8	162.8	163.5
7.5°	197.4	197.4	198.1	198.1	198.8	197.4	198.1	197.4	198.1	198.1	197.4
10°	240.4	240.4	241.8	240.4	241.1	239.6	238.9	238.9	241.1	240.4	239.6
12.5°	289.0	290.4	289.7	289.0	290.4	289.0	287.6	288.3	291.1	289.7	289.0
15°	340.4	341.8	343.3	341.1	341.8	341.1	340.4	341.1	344.0	342.6	341.8
17.5°	392.6	393.3	394.7	391.9	392.6	393.3	392.6	393.3	395.4	394.7	394.0
20°	444.8	446.2	447.6	444.8	445.5	446.2	445.5	446.2	449.0	447.6	446.9
22.5°	499.7	500.4	503.3	499.7	501.1	501.8	500.4	501.8	504.7	503.3	502.6
25°	556.8	556.1	560.3	557.5	558.2	559.6	558.2	559.6	563.2	563.2	561.1
27.5°	615.3	615.3	618.8	616.7	618.1	617.4	618.8	620.3	623.8	624.5	622.4
30°	673.8	673.8	679.5	675.9	678.1	678.8	678.8	680.2	684.4	685.8	683.0
32.5°	732.3	732.3	735.1	735.9	737.3	738.0	739.4	739.4	745.0	745.7	744.3
35°	789.4	789.4	792.2	793.6	797.2	795.8	797.9	797.9	804.2	804.9	804.2
37.5°	843.7	844.4	847.9	849.3	852.2	852.2	853.6	855.0	860.6	862.7	862.0
40°	895.1	896.6	899.4	902.2	905.0	905.0	905.7	907.8	914.2	916.3	915.6
42.5°	941.7	942.4	946.6	950.8	953.6	953.6	954.4	955.8	962.8	965.6	965.6
45°	982.5	984.7	990.3	995.9	998.8	998.1	998.1	1000.2	1007.9	1011.4	1011.4
47.5°	1020.6	1023.4	1029.8	1035.4	1038.2	1038.2	1037.5	1039.6	1048.1	1052.3	1050.2
50°	1054.4	1056.6	1063.6	1072.1	1074.2	1074.2	1072.1	1074.2	1083.3	1089.0	1089.0
52.5°	1082.6	1084.7	1093.2	1102.4	1105.2	1104.5	1101.7	1103.8	1112.9	1119.3	1118.6
55°	1106.6	1109.4	1118.6	1129.9	1132.7	1130.6	1127.0	1129.2	1139.0	1147.5	1146.8
57.5°	1128.4	1130.6	1141.1	1153.1	1157.3	1153.8	1148.9	1151.0	1162.3	1171.4	1172.1
60°	1146.8	1148.9	1160.9	1175.0	1178.5	1174.3	1167.9	1170.0	1182.7	1193.3	1194.7
62.5°	1162.3	1164.4	1177.8	1193.3	1198.2	1191.9	1184.1	1186.2	1200.3	1212.3	1213.0
65°	1175.0	1177.1	1192.6	1208.8	1213.7	1206.7	1197.5	1199.6	1215.1	1228.5	1229.9
67.5°	1184.8	1187.7	1205.3	1222.9	1227.1	1218.7	1208.1	1210.2	1227.1	1242.6	1244.0
70°	1193.3	1196.8	1215.1	1234.2	1239.1	1229.2	1216.6	1219.4	1238.4	1253.9	1256.0
72.5°	1199.6	1203.2	1222.9	1243.3	1249.0	1237.0	1222.9	1225.7	1246.2	1263.1	1265.2
75°	1203.9	1207.4	1228.5	1250.4	1255.3	1242.6	1227.1	1229.9	1251.1	1269.4	1272.2
77.5°	1206.0	1209.5	1232.1	1254.6	1259.5	1244.7	1228.5	1231.4	1253.2	1272.9	1275.8
80°	1206.0	1208.8	1232.1	1254.6	1259.5	1244.7	1228.5	1231.4	1253.2	1272.9	1275.8
82.5°	1203.9	1206.7	1230.6	1254.6	1258.8	1242.6	1224.3	1227.1	1250.4	1271.5	1275.1
85°	1198.9	1201.8	1225.7	1250.4	1254.6	1237.0	1218.0	1220.8	1244.0	1266.6	1270.1
87.5°	1191.9	1195.4	1218.7	1243.3	1246.9	1228.5	1210.2	1211.6	1236.3	1259.5	1262.4
90°	1183.4	1186.9	1208.8	1233.5	1237.0	1218.7	1199.6	1201.8	1225.7	1249.7	1252.5
92.5°	1173.6	1176.4	1197.5	1220.1	1224.3	1205.3	1186.9	1189.8	1213.7	1237.7	1241.2
95°	1160.9	1163.0	1182.7	1203.9	1207.4	1190.5	1172.1	1175.0	1198.9	1222.2	1225.7
97.5°	1145.4	1146.8	1164.4	1183.4	1187.7	1171.4	1154.5	1157.3	1180.6	1203.9	1208.1
100°	1127.7	1128.4	1144.0	1160.2	1163.7	1150.3	1134.8	1138.3	1160.2	1184.1	1186.9
102.5°	1107.3	1107.3	1120.0	1133.4	1137.6	1126.3	1112.9	1116.5	1137.6	1160.2	1163.7
105°	1084.7	1082.6	1091.8	1102.4	1107.3	1098.8	1089.0	1091.8	1111.5	1133.4	1137.6
107.5°	1056.6	1054.4	1060.8	1069.9	1074.9	1068.5	1060.8	1065.0	1081.9	1102.4	1106.6
110°	1024.8	1022.0	1024.8	1031.9	1037.5	1033.3	1029.1	1032.6	1048.8	1067.8	1070.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	988.2	984.7	985.4	990.3	995.2	994.5	991.7	997.3	1010.7	1026.2	1029.8
115°	945.9	942.4	940.3	943.1	947.3	950.1	952.9	956.5	967.0	979.7	985.4
117.5°	901.5	895.9	892.3	892.3	897.3	902.2	907.1	912.1	919.1	931.1	933.2
120°	850.0	846.5	841.6	841.6	845.8	850.7	858.5	864.1	868.4	876.8	879.6
122.5°	799.3	794.4	789.4	789.4	792.2	799.3	809.9	814.8	816.9	821.8	824.0
125°	747.8	742.2	736.6	736.6	739.4	746.4	758.4	762.6	764.0	766.2	768.3
127.5°	695.7	690.0	685.1	683.0	687.2	692.9	704.8	710.5	711.2	711.2	712.6
130°	643.5	639.3	634.4	632.2	636.5	641.4	654.8	660.4	657.6	657.6	658.3
132.5°	594.2	590.0	585.0	583.6	586.4	592.8	604.8	609.7	607.6	604.8	605.5
135°	546.3	542.7	536.4	535.7	539.9	542.7	554.0	558.9	556.8	554.0	554.7
137.5°	500.4	496.9	491.3	490.6	494.8	498.3	506.8	511.7	508.9	506.1	506.8
140°	456.7	452.5	448.3	447.6	450.4	453.9	461.7	464.5	461.7	459.6	460.3
142.5°	415.9	413.0	408.1	408.1	409.5	412.3	418.7	421.5	418.7	415.9	414.4
145°	377.1	373.6	370.7	370.0	371.5	374.3	378.5	381.3	378.5	376.4	375.0
147.5°	342.6	339.7	336.9	336.9	337.6	339.7	343.3	344.0	341.8	340.4	339.0
150°	310.8	308.0	306.6	305.9	306.6	307.3	310.1	311.5	309.4	308.0	306.6
152.5°	281.9	279.8	278.4	279.1	279.1	279.8	280.5	281.2	279.1	279.1	277.7
155°	256.6	255.2	253.7	254.4	254.4	254.4	255.2	255.2	253.7	253.7	253.0
157.5°	235.4	234.0	233.3	234.0	234.0	233.3	234.0	234.0	232.6	232.6	231.9
160°	217.1	215.7	215.7	215.7	215.7	215.0	216.4	215.7	215.0	214.3	214.3
162.5°	202.3	200.9	200.9	201.6	200.9	200.9	200.9	200.9	200.2	200.2	199.5
165°	190.3	188.9	188.9	189.6	188.9	188.9	188.9	188.9	188.2	188.2	188.2
167.5°	180.4	179.7	179.7	179.7	179.7	179.0	179.7	179.7	179.0	179.0	179.0
170°	172.7	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	171.3	171.3
172.5°	167.8	167.0	167.0	167.0	167.0	167.0	167.0	167.0	166.3	166.3	166.3
175°	164.2	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5	162.8	162.8
177.5°	162.1	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	160.7	160.7
180°	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7

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.

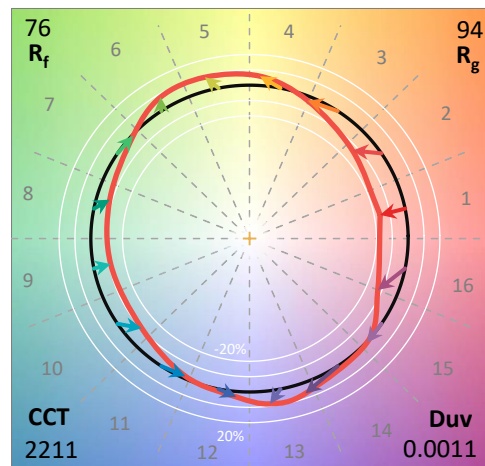
Test Information

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

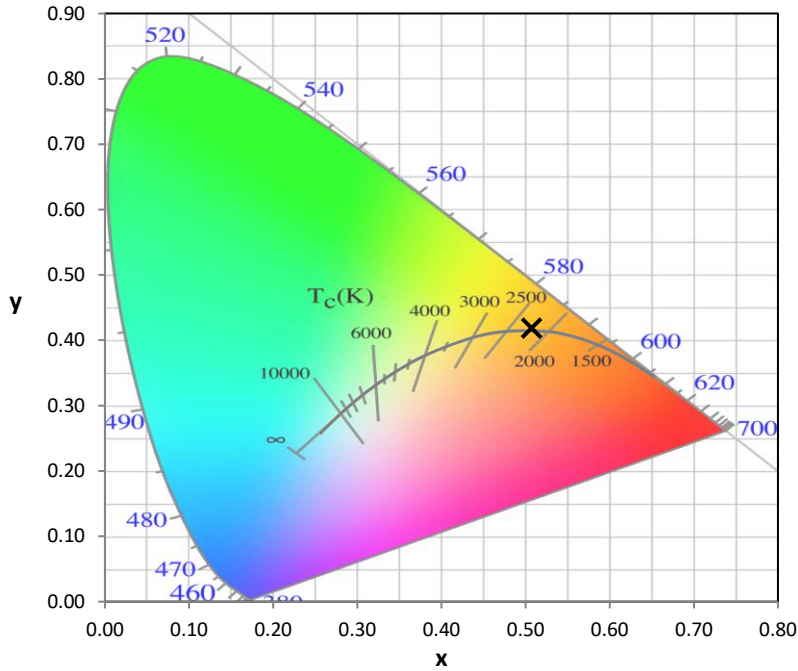
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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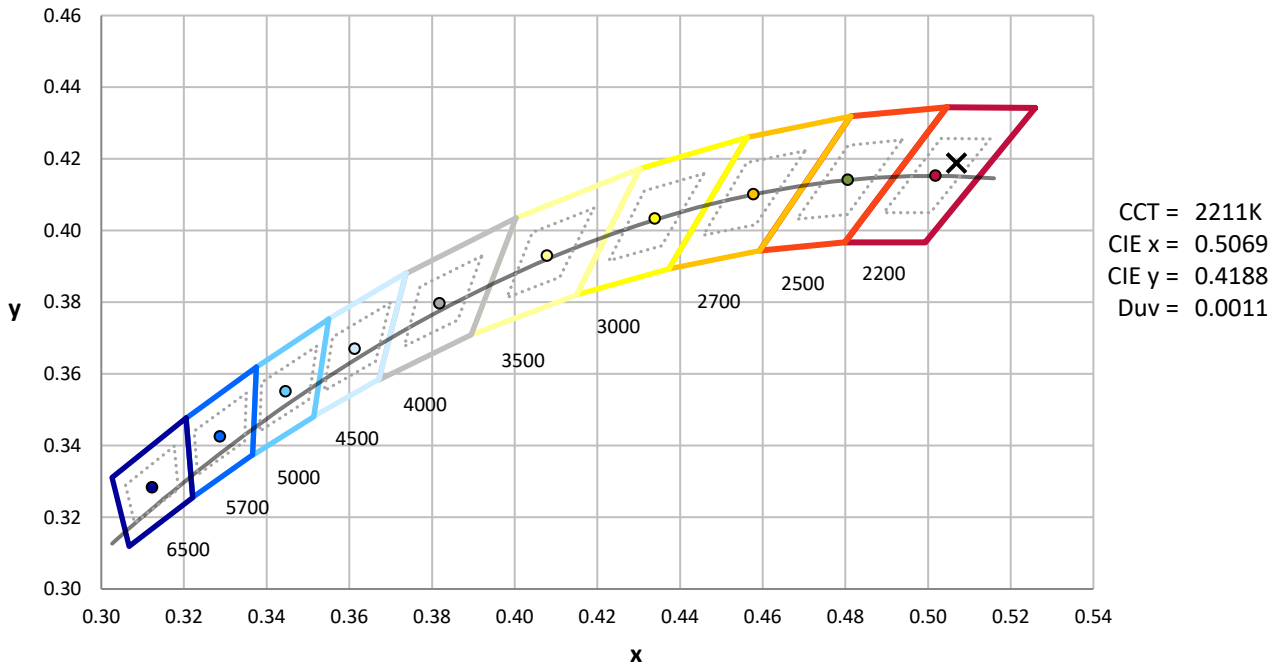
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



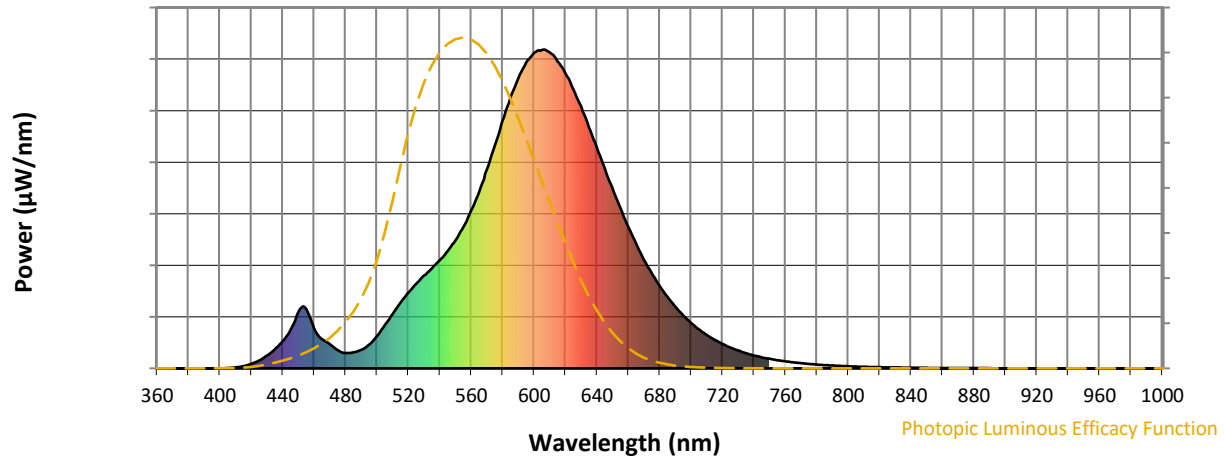
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

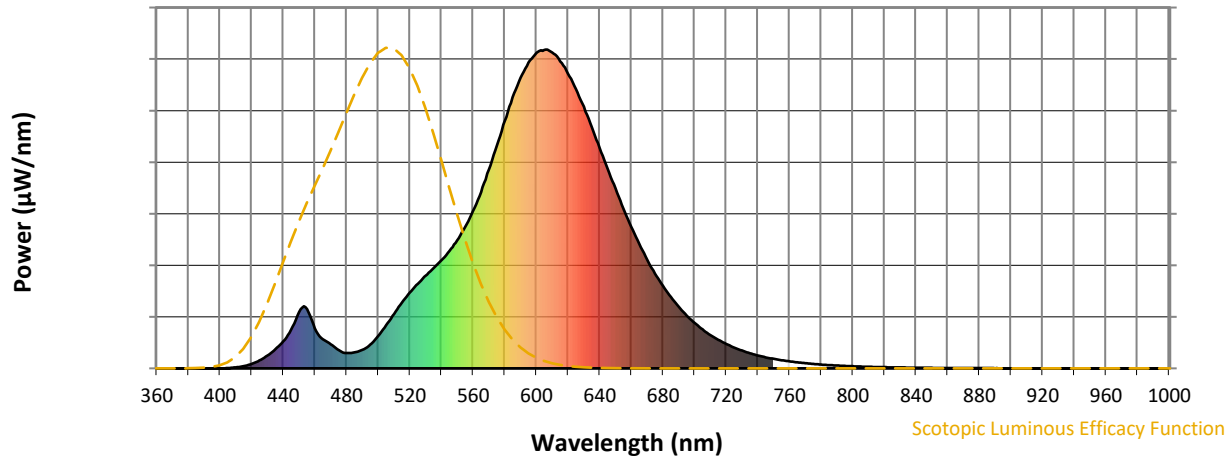


Photopic Lumens: NR

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



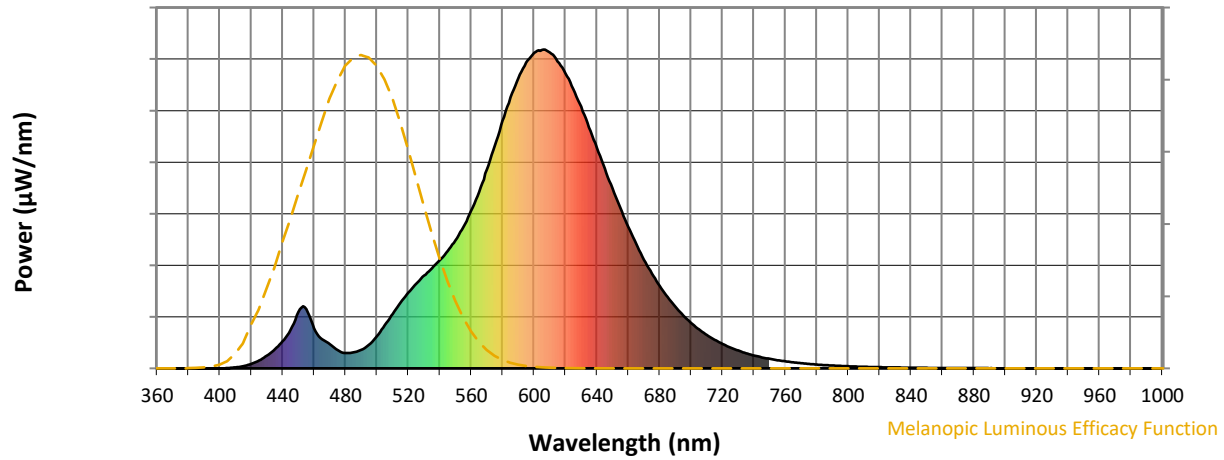
Scotopic Lumens: NR

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

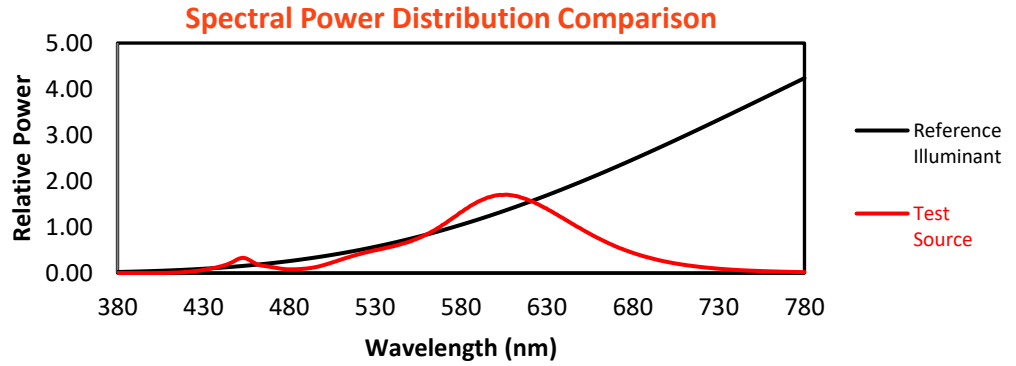
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR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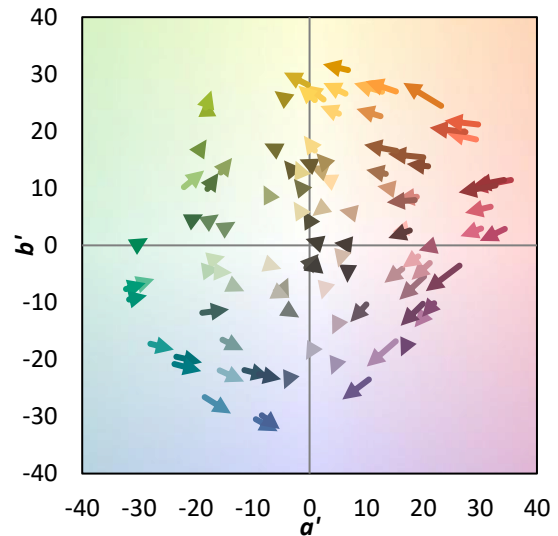
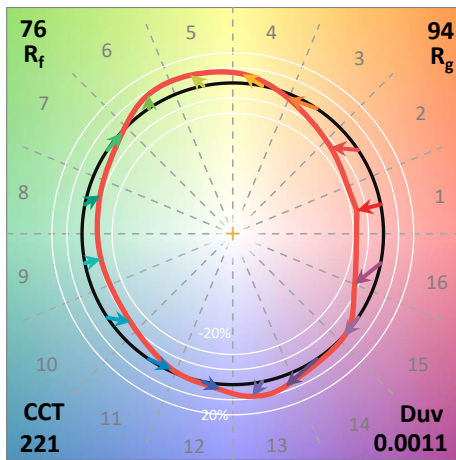
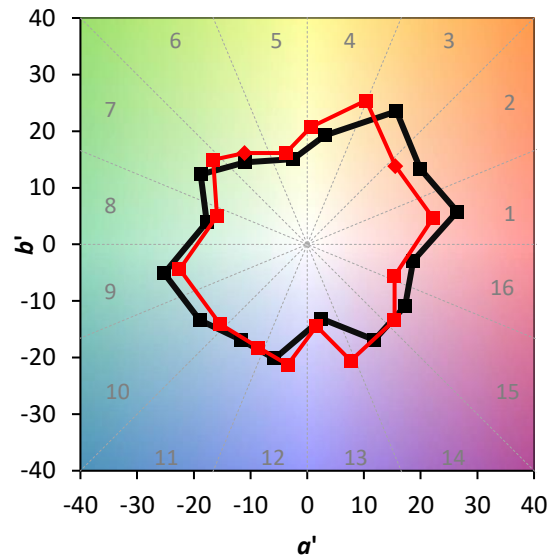
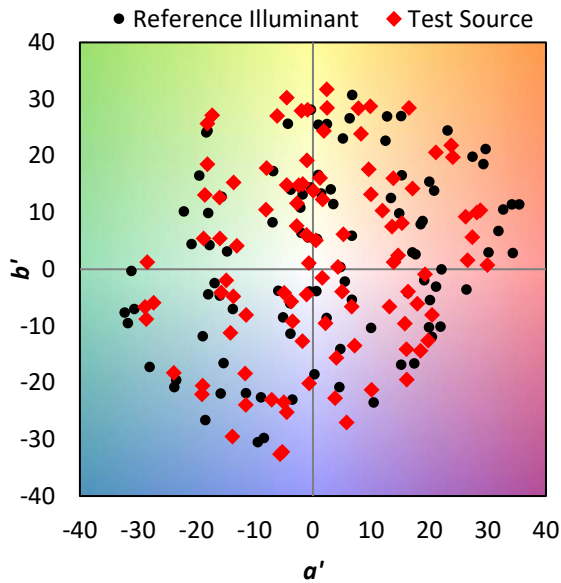
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Summary

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



Color Vector Graphics

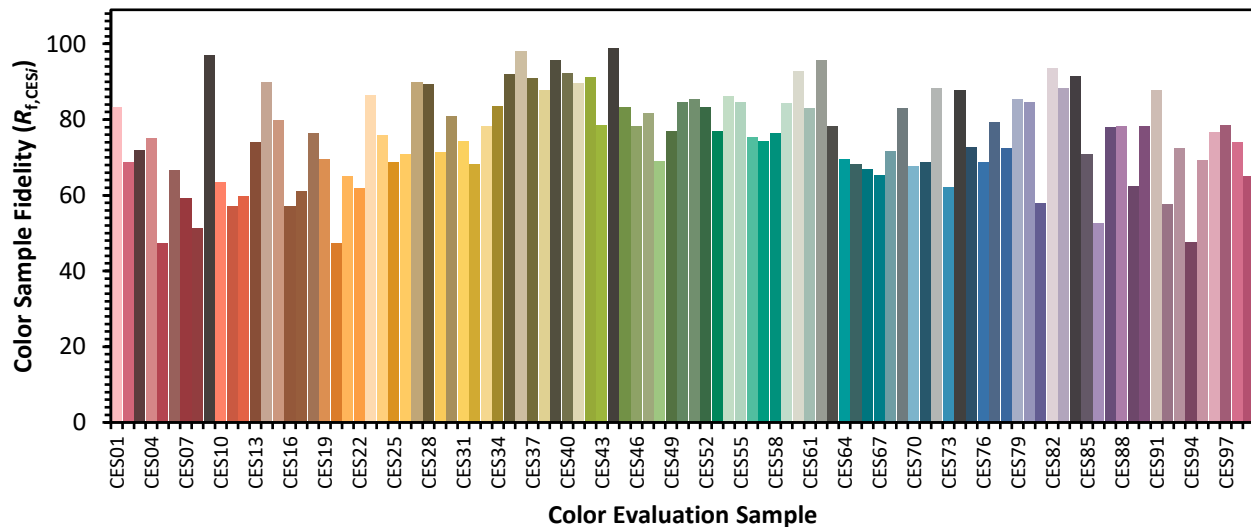


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Individual Sample Fidelity Index ($R_{f,i}$)

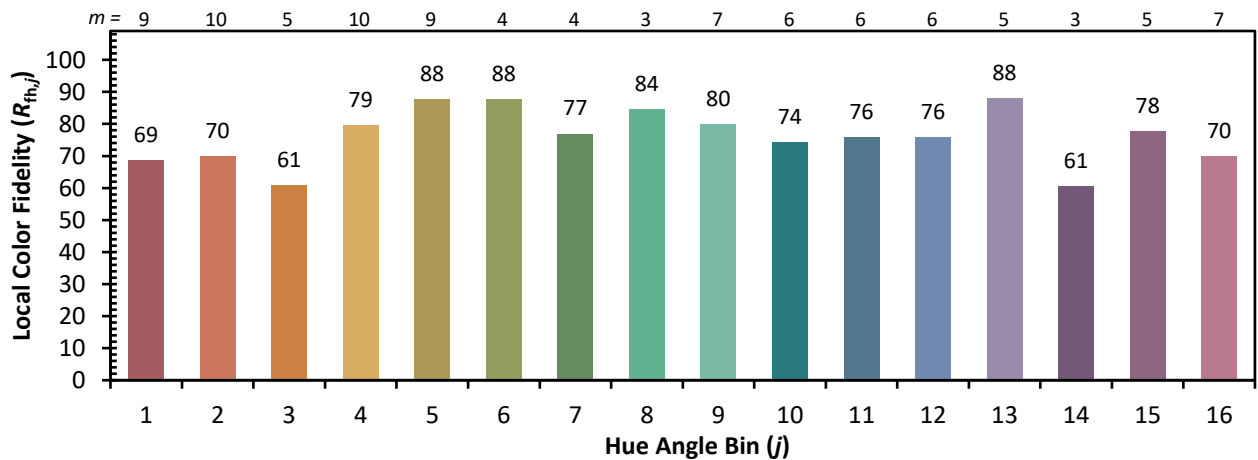
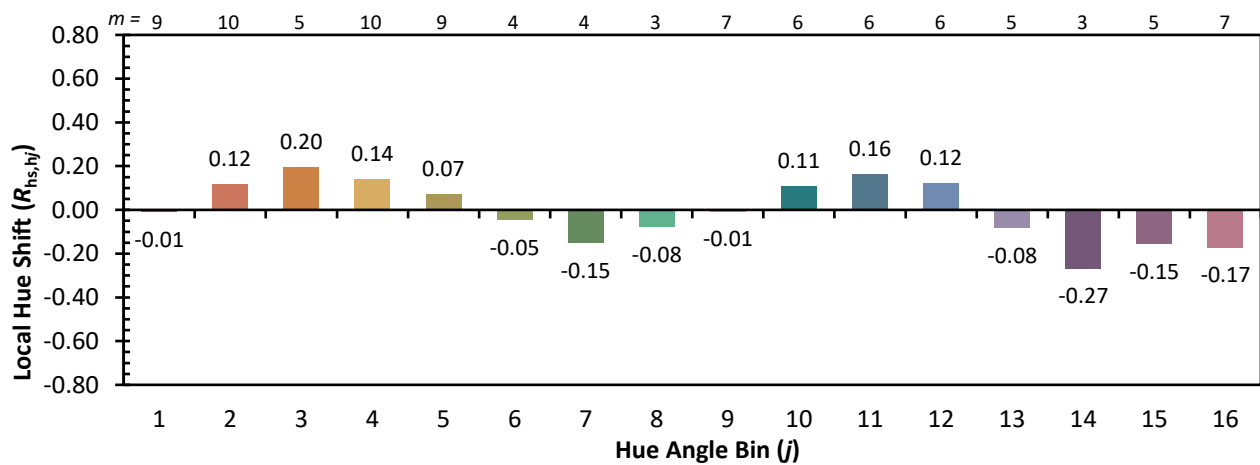
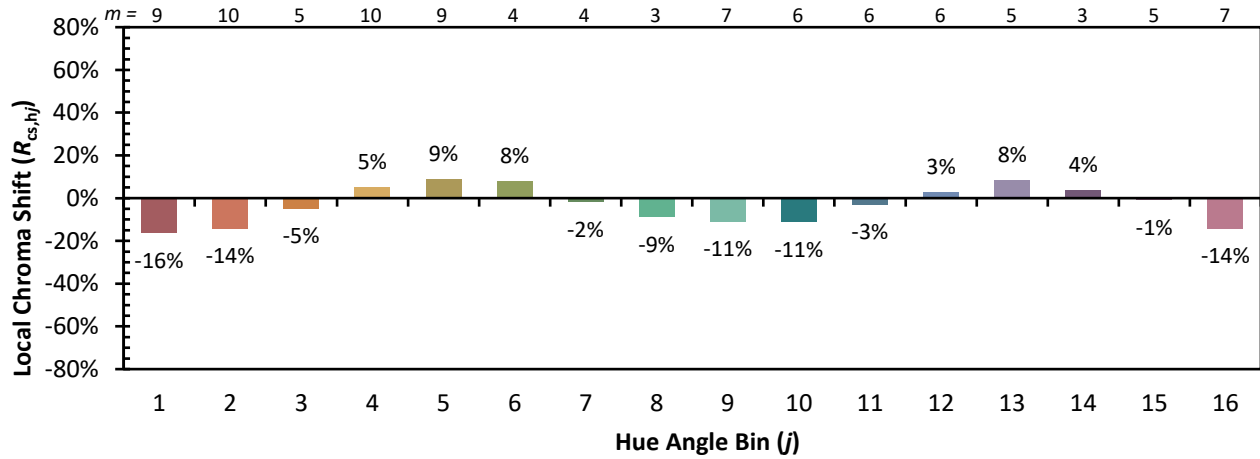
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CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57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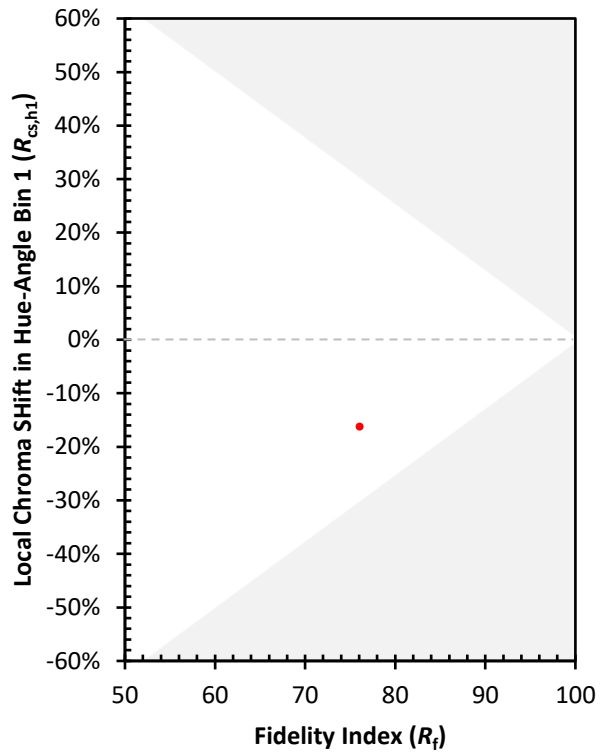
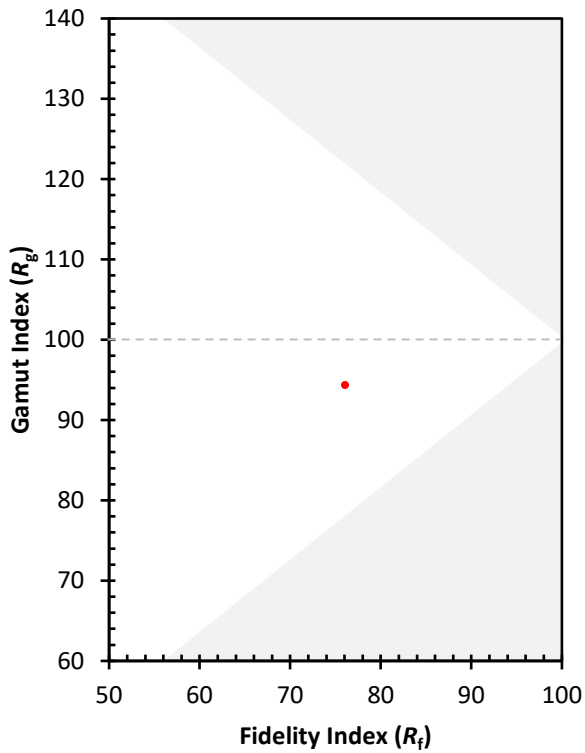
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)