

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: P856293

Luminaire Tested: **FFX-CLB-70-727-U-FG**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856293
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-727-U-FG
Description: FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

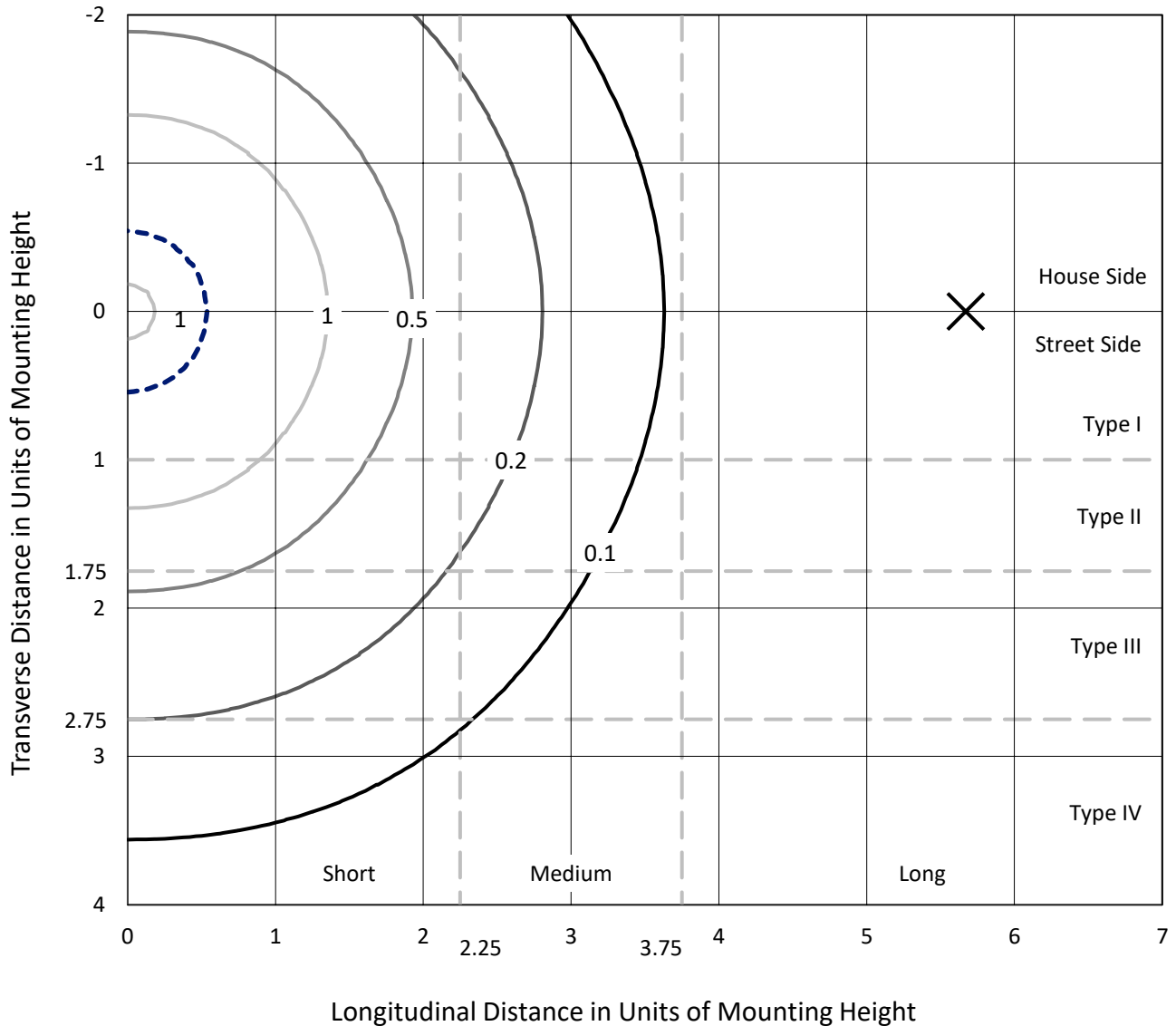
Lumens per Lamp: N/A
Luminaire Lumens: 10820.9 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1.5')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G4

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

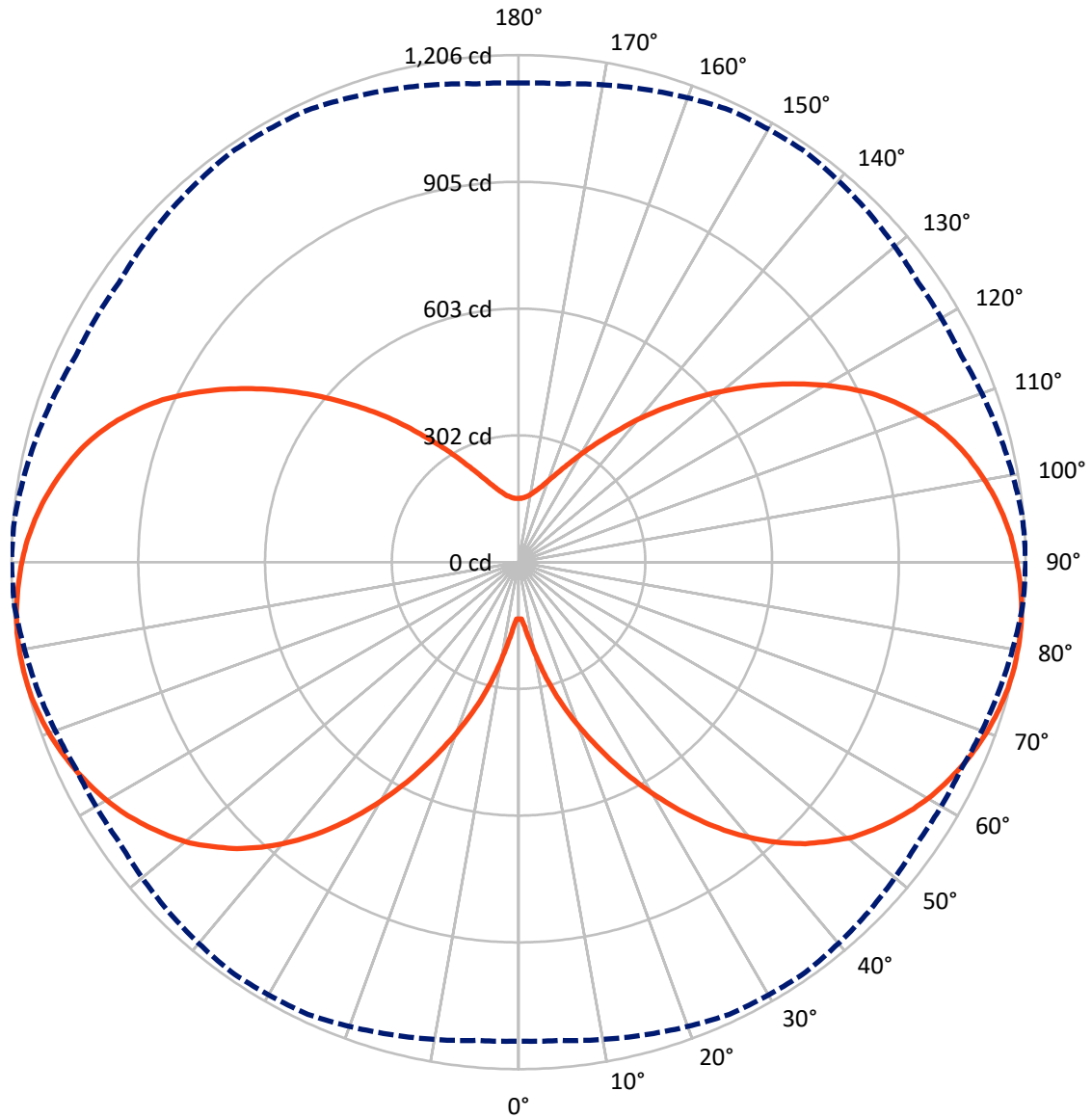
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 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 80-Deg Vertical

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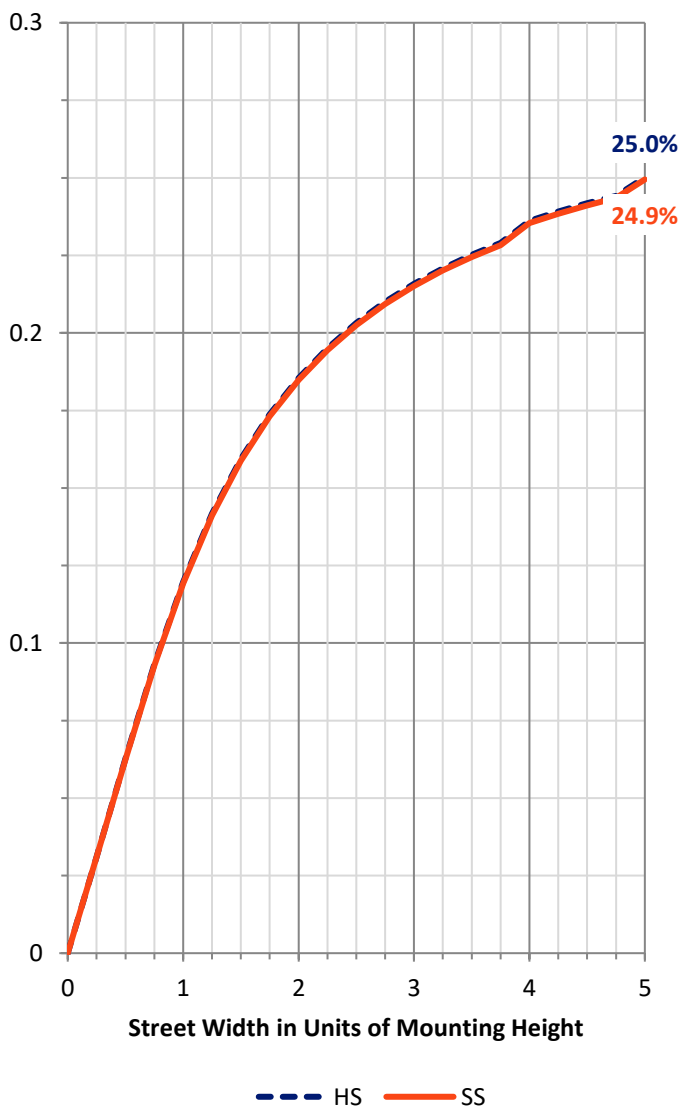
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3078.6	2331.8	5410.4
	% Fixture	28.5	21.5	50.0
Street Side	Lumens	3078.6	2331.8	5410.4
	% Fixture	28.5	21.5	50.0
Total	Lumens	6157.3	4663.6	10820.9
	% Fixture	56.9	43.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.2	0.2
10°-20°	94.4	0.9
20°-30°	248.3	2.3
30°-40°	474.6	4.4
40°-50°	729.6	6.7
50°-60°	955.9	8.8
60°-70°	1128.1	10.4
70°-80°	1237.6	11.4
80°-90°	1271.6	11.8
90°-100°	1225.1	11.3
100°-110°	1098.5	10.2
110°-120°	892.6	8.2
120°-130°	637.8	5.9
130°-140°	403.4	3.7
140°-150°	225.9	2.1
150°-160°	113.7	1.1
160°-170°	51.7	0.5
170°-180°	15.0	0.1
0°-90°	6157.3	56.9
0°-180°	10820.9	100.0

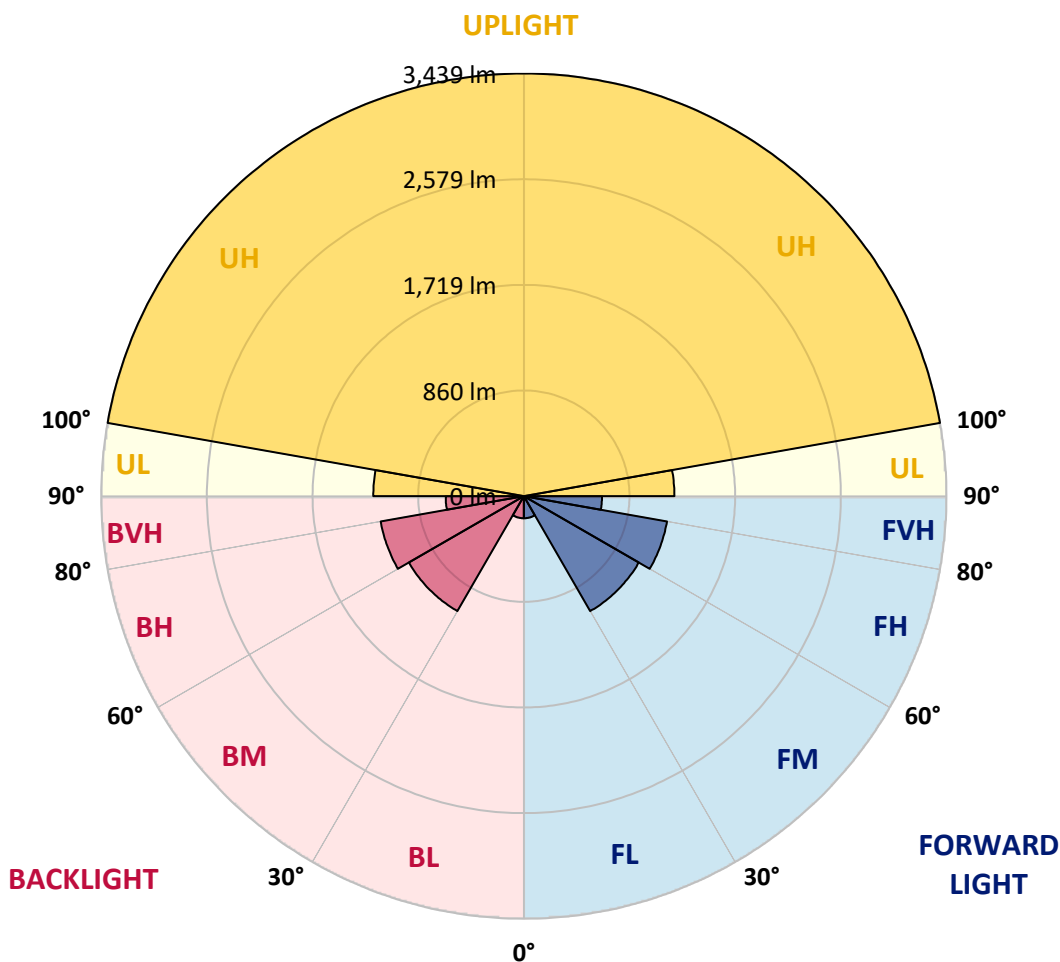


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.9	1.7			
FM (30°-60°)	1080.1	10.0			
FH (60°-80°)	1182.9	10.9			G1/1800
FVH (80°-90°)	635.8	5.9			G4/750
BL (0°-30°)	179.9	1.7	B1/500		
BM (30°-60°)	1080.1	10.0	B2/2500		
BH (60°-80°)	1182.9	10.9	B3/2500		G1/1800
BVH (80°-90°)	635.8	5.9			G4/750
UL (90°-100°)	1225.1	11.3		U5	
UH (100°-180°)	3438.5	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°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8
2.5°	142.5	142.5	141.8	140.5	139.8	139.2	137.8	135.8	135.2	135.2	135.2
5°	155.2	155.8	155.8	155.2	155.8	154.5	154.5	153.2	153.8	153.8	154.5
7.5°	186.5	186.5	187.1	187.1	187.8	186.5	187.1	186.5	187.1	187.1	186.5
10°	227.1	227.1	228.4	227.1	227.7	226.4	225.7	225.7	227.7	227.1	226.4
12.5°	273.0	274.4	273.7	273.0	274.4	273.0	271.7	272.4	275.0	273.7	273.0
15°	321.6	323.0	324.3	322.3	323.0	322.3	321.6	322.3	325.0	323.6	323.0
17.5°	370.9	371.6	372.9	370.2	370.9	371.6	370.9	371.6	373.6	372.9	372.2
20°	420.2	421.5	422.8	420.2	420.9	421.5	420.9	421.5	424.2	422.8	422.2
22.5°	472.1	472.8	475.5	472.1	473.5	474.1	472.8	474.1	476.8	475.5	474.8
25°	526.1	525.4	529.4	526.7	527.4	528.7	527.4	528.7	532.1	532.1	530.1
27.5°	581.3	581.3	584.7	582.7	584.0	583.3	584.7	586.0	589.3	590.0	588.0
30°	636.6	636.6	641.9	638.6	640.6	641.3	641.3	642.6	646.6	647.9	645.3
32.5°	691.9	691.9	694.5	695.2	696.5	697.2	698.5	698.5	703.9	704.5	703.2
35°	745.8	745.8	748.5	749.8	753.1	751.8	753.8	753.8	759.8	760.5	759.8
37.5°	797.1	797.8	801.1	802.4	805.1	805.1	806.4	807.7	813.1	815.1	814.4
40°	845.7	847.0	849.7	852.4	855.0	855.0	855.7	857.7	863.7	865.7	865.0
42.5°	889.6	890.3	894.3	898.3	901.0	901.0	901.6	903.0	909.6	912.3	912.3
45°	928.3	930.3	935.6	940.9	943.6	942.9	942.9	944.9	952.2	955.6	955.6
47.5°	964.2	966.9	972.9	978.2	980.9	980.9	980.2	982.2	990.2	994.2	992.2
50°	996.2	998.2	1004.8	1012.8	1014.8	1014.8	1012.8	1014.8	1023.5	1028.8	1028.8
52.5°	1022.8	1024.8	1032.8	1041.5	1044.1	1043.5	1040.8	1042.8	1051.5	1057.5	1056.8
55°	1045.5	1048.1	1056.8	1067.4	1070.1	1068.1	1064.8	1066.8	1076.1	1084.1	1083.4
57.5°	1066.1	1068.1	1078.1	1089.4	1093.4	1090.1	1085.4	1087.4	1098.1	1106.7	1107.4
60°	1083.4	1085.4	1096.7	1110.1	1113.4	1109.4	1103.4	1105.4	1117.4	1127.4	1128.7
62.5°	1098.1	1100.1	1112.7	1127.4	1132.0	1126.0	1118.7	1120.7	1134.0	1145.4	1146.0
65°	1110.1	1112.1	1126.7	1142.0	1146.7	1140.0	1131.4	1133.4	1148.0	1160.7	1162.0
67.5°	1119.4	1122.0	1138.7	1155.3	1159.3	1151.3	1141.4	1143.4	1159.3	1174.0	1175.3
70°	1127.4	1130.7	1148.0	1166.0	1170.7	1161.3	1149.4	1152.0	1170.0	1184.6	1186.6
72.5°	1133.4	1136.7	1155.3	1174.7	1180.0	1168.7	1155.3	1158.0	1177.3	1193.3	1195.3
75°	1137.4	1140.7	1160.7	1181.3	1186.0	1174.0	1159.3	1162.0	1182.0	1199.3	1202.0
77.5°	1139.4	1142.7	1164.0	1185.3	1190.0	1176.0	1160.7	1163.3	1184.0	1202.6	1205.3
80°	1139.4	1142.0	1164.0	1186.6	1190.6	1176.7	1160.0	1162.0	1183.3	1203.3	1206.0
82.5°	1137.4	1140.0	1162.7	1185.3	1189.3	1174.0	1156.7	1159.3	1181.3	1201.3	1204.6
85°	1132.7	1135.4	1158.0	1181.3	1185.3	1168.7	1150.7	1153.3	1175.3	1196.6	1200.0
87.5°	1126.0	1129.4	1151.3	1174.7	1178.0	1160.7	1143.4	1144.7	1168.0	1190.0	1192.6
90°	1118.1	1121.4	1142.0	1165.3	1168.7	1151.3	1133.4	1135.4	1158.0	1180.6	1183.3
92.5°	1108.7	1111.4	1131.4	1152.7	1156.7	1138.7	1121.4	1124.0	1146.7	1169.3	1172.7
95°	1096.7	1098.7	1117.4	1137.4	1140.7	1124.7	1107.4	1110.1	1132.7	1154.7	1158.0
97.5°	1082.1	1083.4	1100.1	1118.1	1122.0	1106.7	1090.8	1093.4	1115.4	1137.4	1141.4
100°	1065.4	1066.1	1080.8	1096.1	1099.4	1086.8	1072.1	1075.4	1096.1	1118.7	1121.4
102.5°	1046.1	1046.1	1058.1	1070.8	1074.8	1064.1	1051.5	1054.8	1074.8	1096.1	1099.4
105°	1024.8	1022.8	1031.5	1041.5	1046.1	1038.1	1028.8	1031.5	1050.1	1070.8	1074.8
107.5°	998.2	996.2	1002.2	1010.8	1015.5	1009.5	1002.2	1006.2	1022.2	1041.5	1045.5
110°	968.2	965.6	968.2	974.9	980.2	976.2	972.2	975.5	990.9	1008.8	1011.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	933.6	930.3	930.9	935.6	940.3	939.6	936.9	942.3	954.9	969.6	972.9
115°	893.6	890.3	888.3	891.0	895.0	897.6	900.3	903.6	913.6	925.6	930.9
117.5°	851.7	846.4	843.0	843.0	847.7	852.4	857.0	861.7	868.3	879.7	881.7
120°	803.1	799.8	795.1	795.1	799.1	803.7	811.1	816.4	820.4	828.4	831.0
122.5°	755.1	750.5	745.8	745.8	748.5	755.1	765.1	769.8	771.8	776.4	778.4
125°	706.5	701.2	695.9	695.9	698.5	705.2	716.5	720.5	721.8	723.8	725.8
127.5°	657.2	651.9	647.3	645.3	649.3	654.6	665.9	671.2	671.9	671.9	673.2
130°	608.0	604.0	599.3	597.3	601.3	606.0	618.6	624.0	621.3	621.3	622.0
132.5°	561.4	557.4	552.7	551.4	554.0	560.0	571.3	576.0	574.0	571.3	572.0
135°	516.1	512.7	506.8	506.1	510.1	512.7	523.4	528.1	526.1	523.4	524.1
137.5°	472.8	469.5	464.1	463.5	467.5	470.8	478.8	483.4	480.8	478.1	478.8
140°	431.5	427.5	423.5	422.8	425.5	428.8	436.2	438.8	436.2	434.2	434.8
142.5°	392.9	390.2	385.6	385.6	386.9	389.6	395.5	398.2	395.5	392.9	391.6
145°	356.3	352.9	350.3	349.6	350.9	353.6	357.6	360.3	357.6	355.6	354.3
147.5°	323.6	321.0	318.3	318.3	319.0	321.0	324.3	325.0	323.0	321.6	320.3
150°	293.7	291.0	289.7	289.0	289.7	290.3	293.0	294.3	292.3	291.0	289.7
152.5°	266.4	264.4	263.0	263.7	263.7	264.4	265.0	265.7	263.7	263.7	262.4
155°	242.4	241.1	239.7	240.4	240.4	240.4	241.1	241.1	239.7	239.7	239.1
157.5°	222.4	221.1	220.4	221.1	221.1	220.4	221.1	221.1	219.7	219.7	219.1
160°	205.1	203.8	203.8	203.8	203.8	203.1	204.4	203.8	203.1	202.4	202.4
162.5°	191.1	189.8	189.8	190.4	189.8	189.8	189.8	189.8	189.1	189.1	188.5
165°	179.8	178.5	178.5	179.1	178.5	178.5	178.5	178.5	177.8	177.8	177.8
167.5°	170.5	169.8	169.8	169.8	169.8	169.1	169.8	169.8	169.1	169.1	169.1
170°	163.1	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5	161.8	161.8
172.5°	158.5	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.2	157.2	157.2
175°	155.2	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	153.8	153.8
177.5°	153.2	152.5	152.5	152.5	152.5	152.5	152.5	152.5	152.5	151.8	151.8
180°	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8

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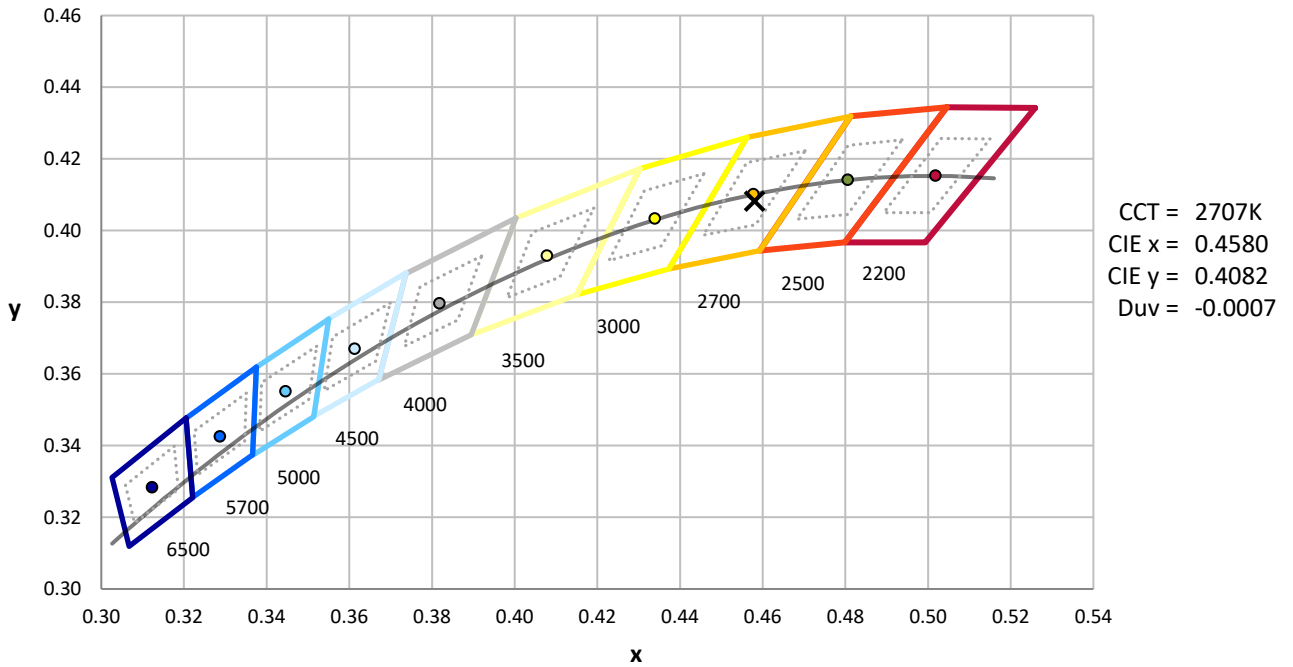
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

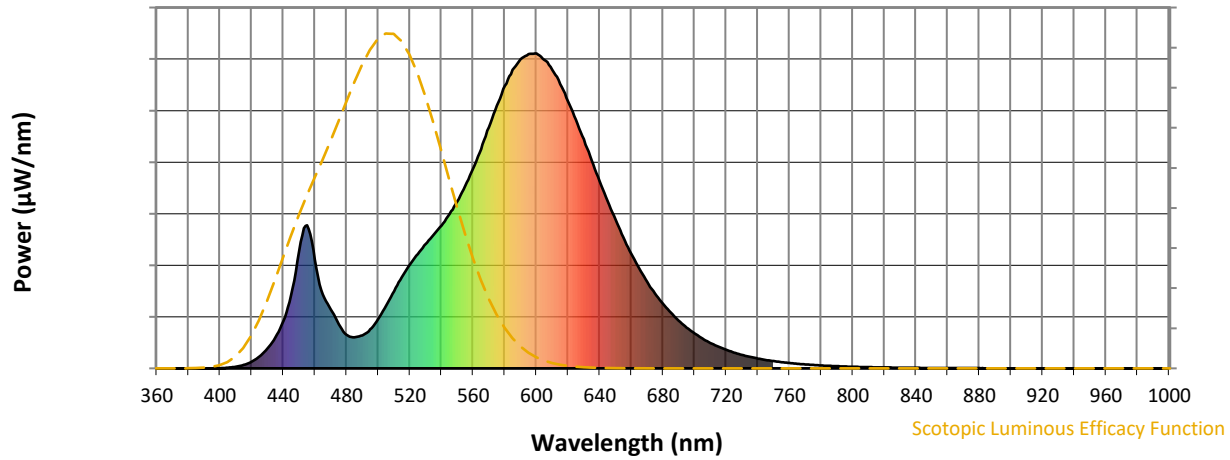


Photopic Lumens: NR

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



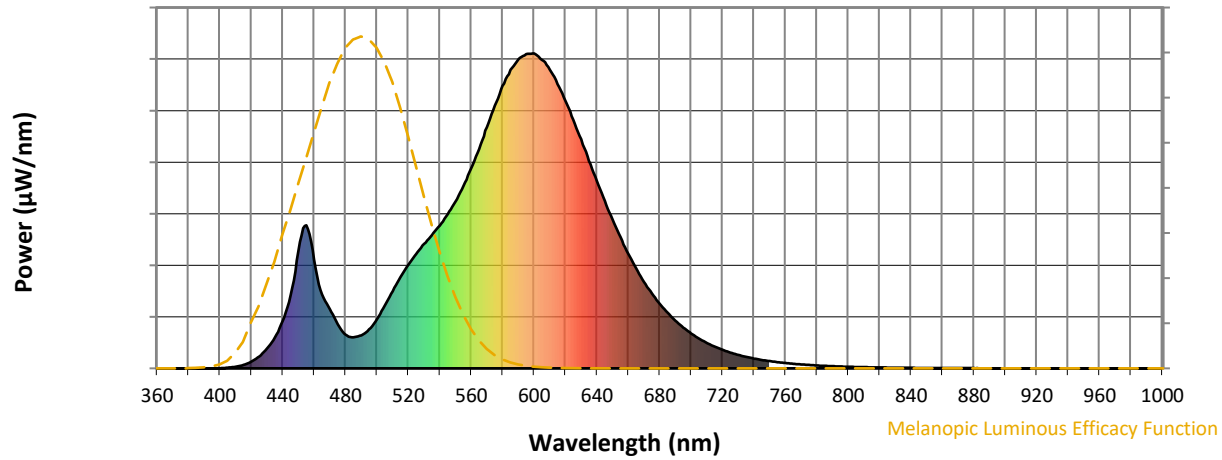
Scotopic Lumens: NR

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

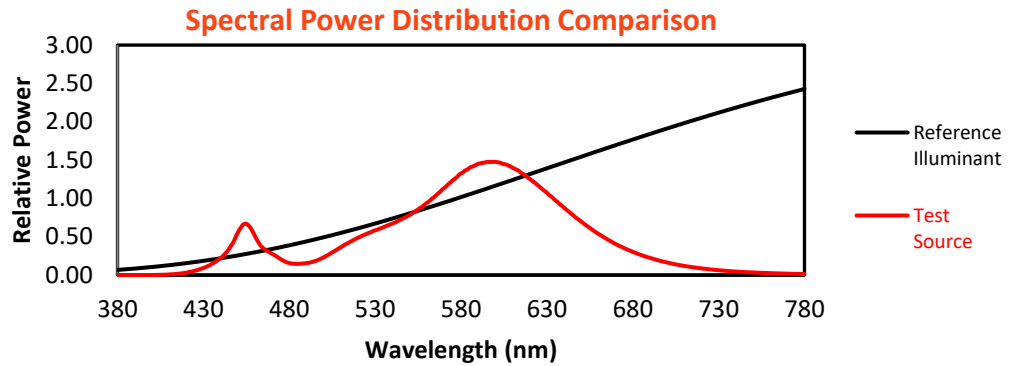
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156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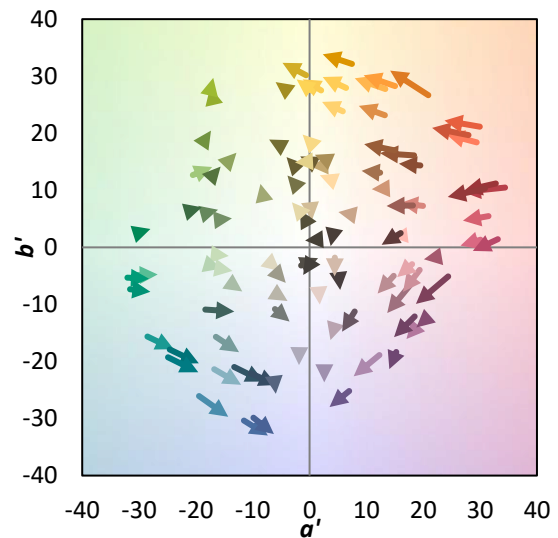
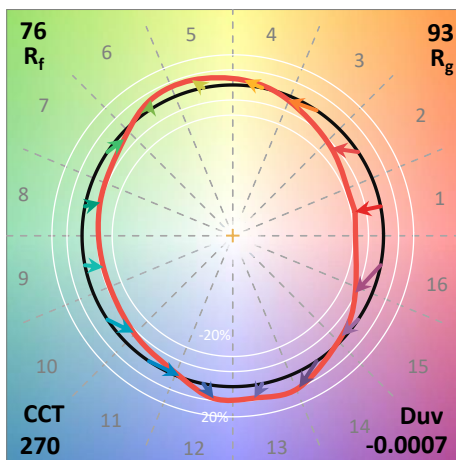
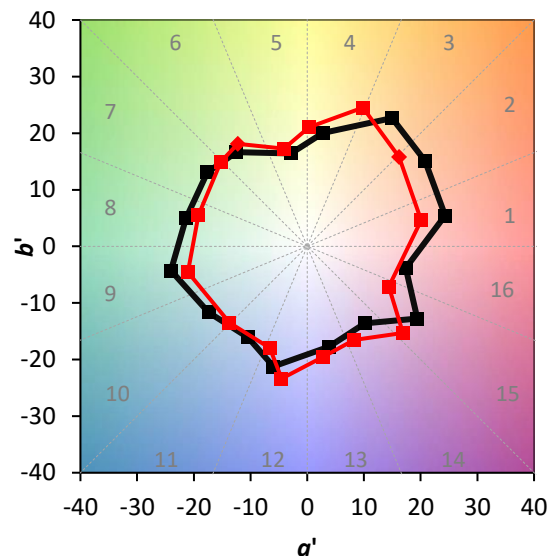
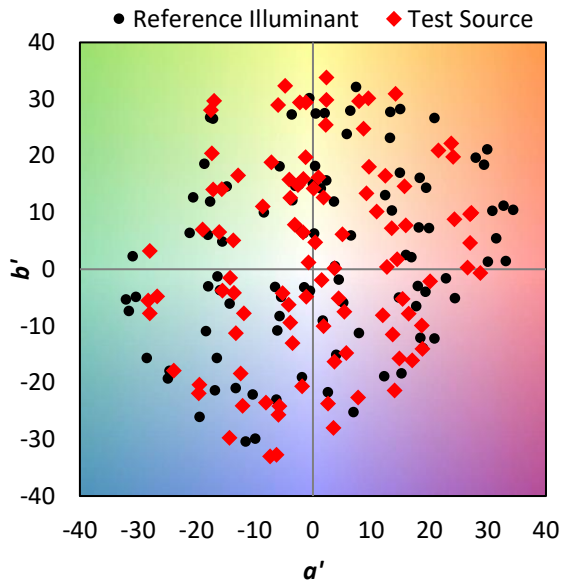
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Summary

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



Color Vector Graphics



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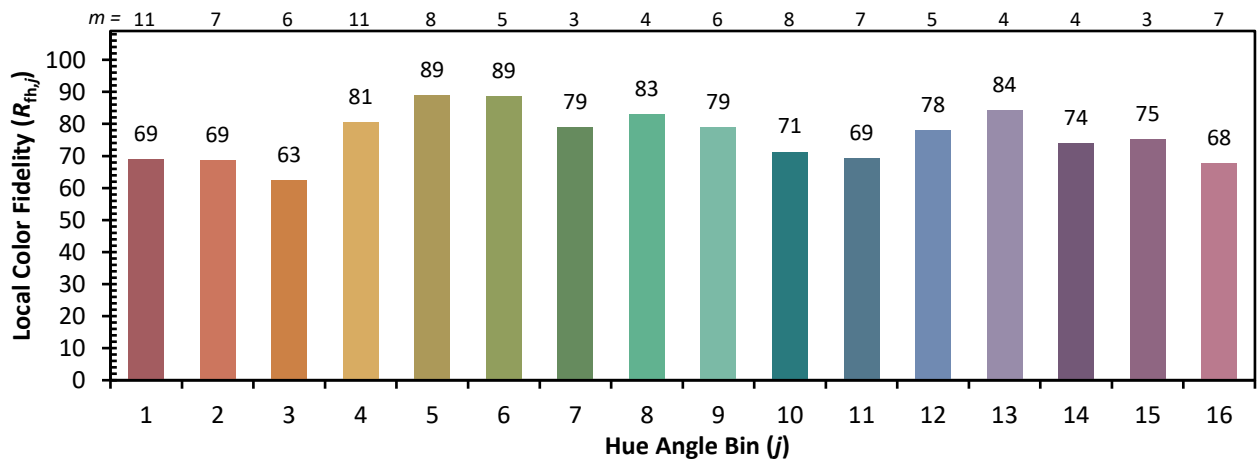
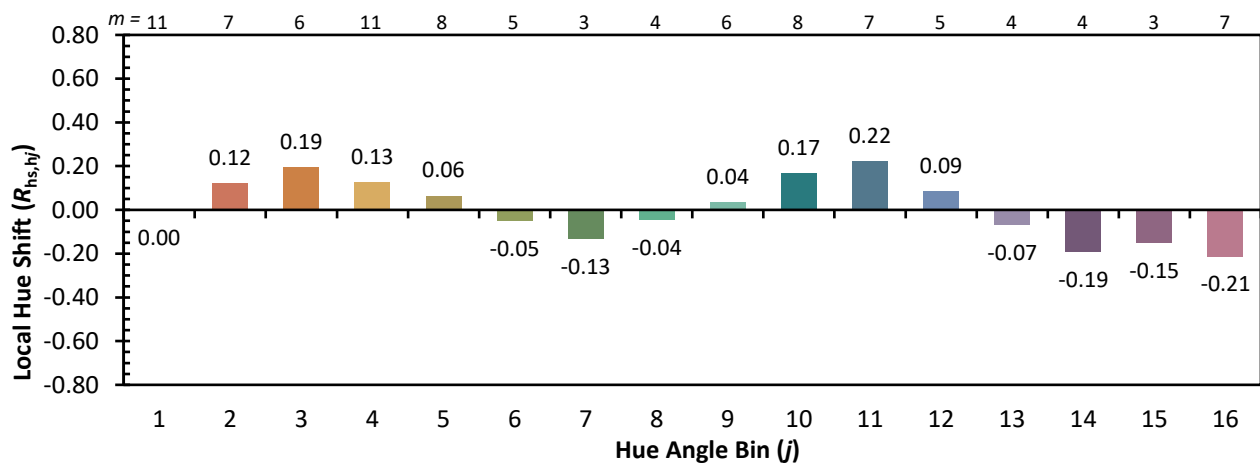
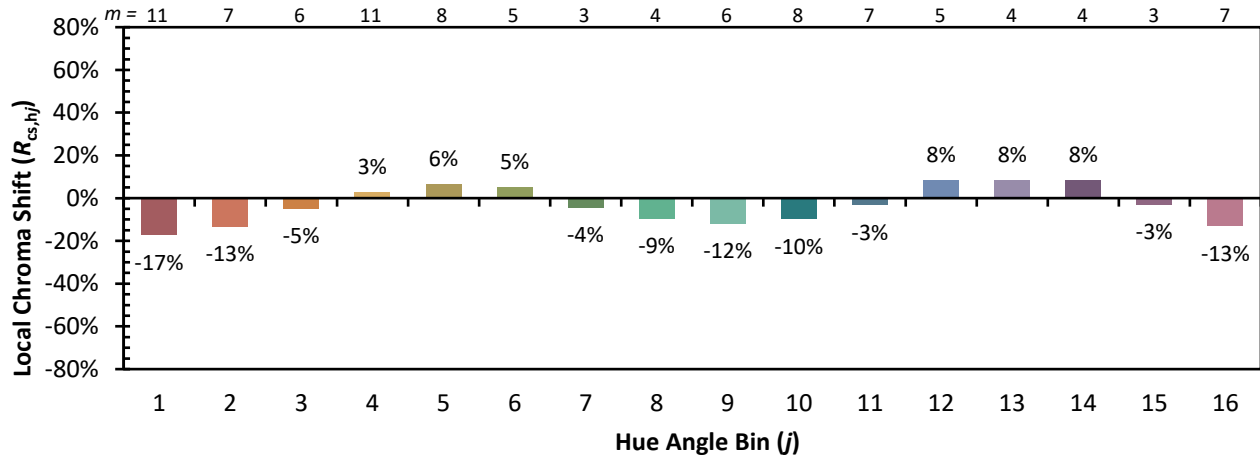
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Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
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	



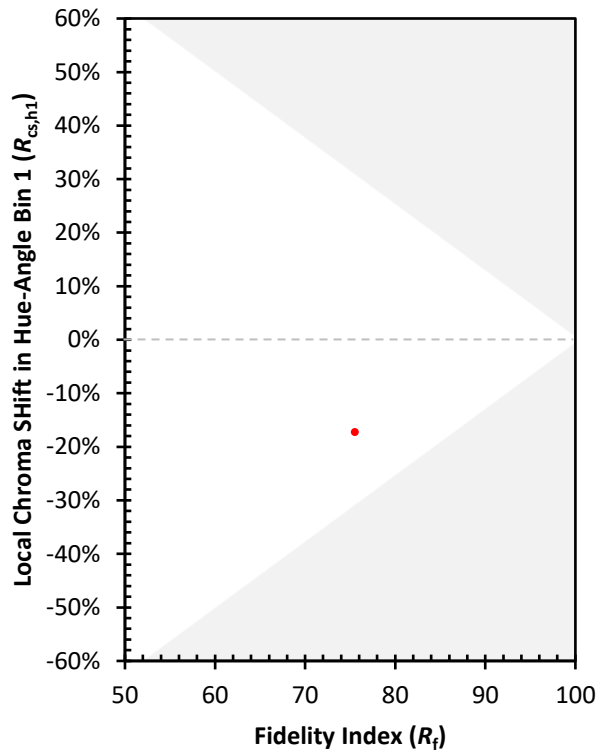
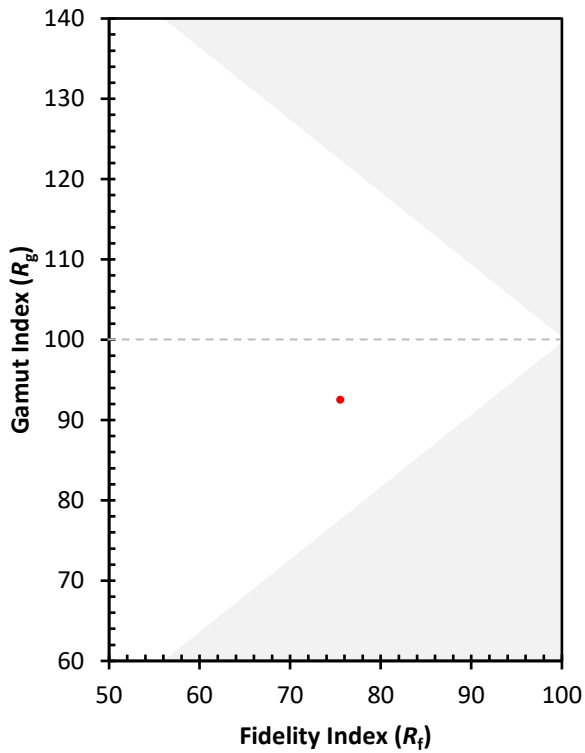
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)