

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: P856338

Luminaire Tested: **FFX-CLB-70-727-U-VM8**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856338
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-VM8
Description: FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

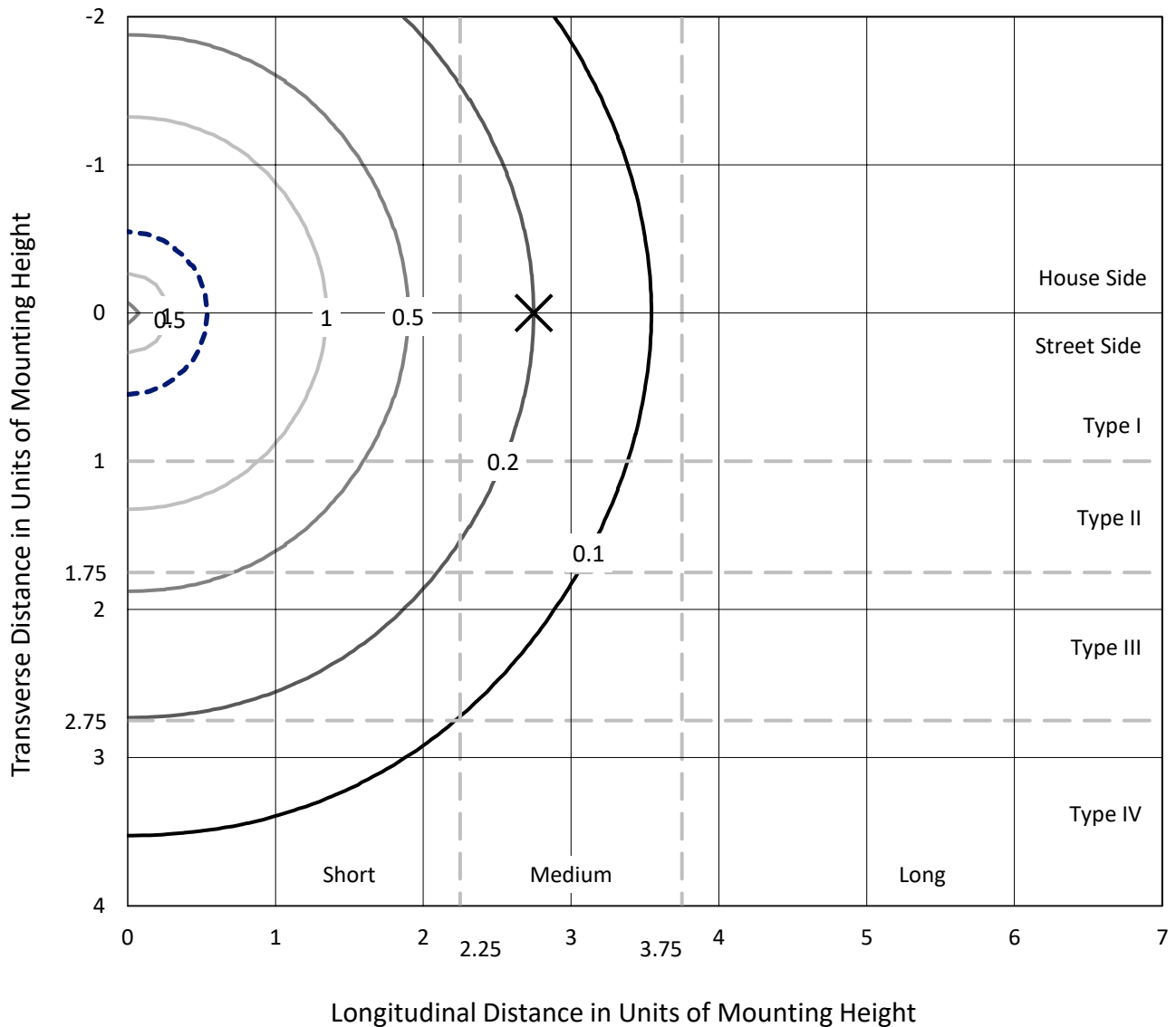
Lumens per Lamp: N/A
Luminaire Lumens: 10388.7 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 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

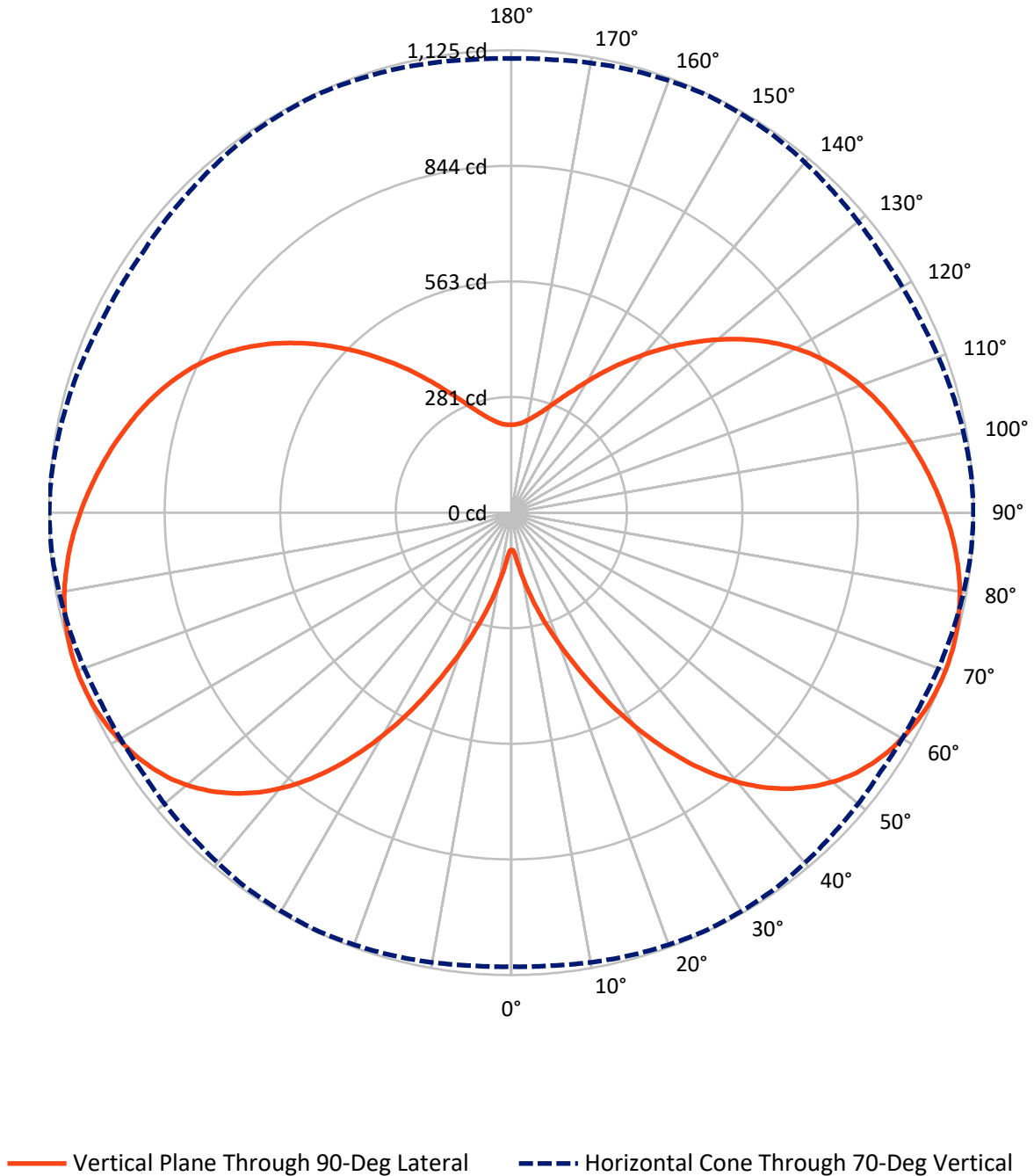
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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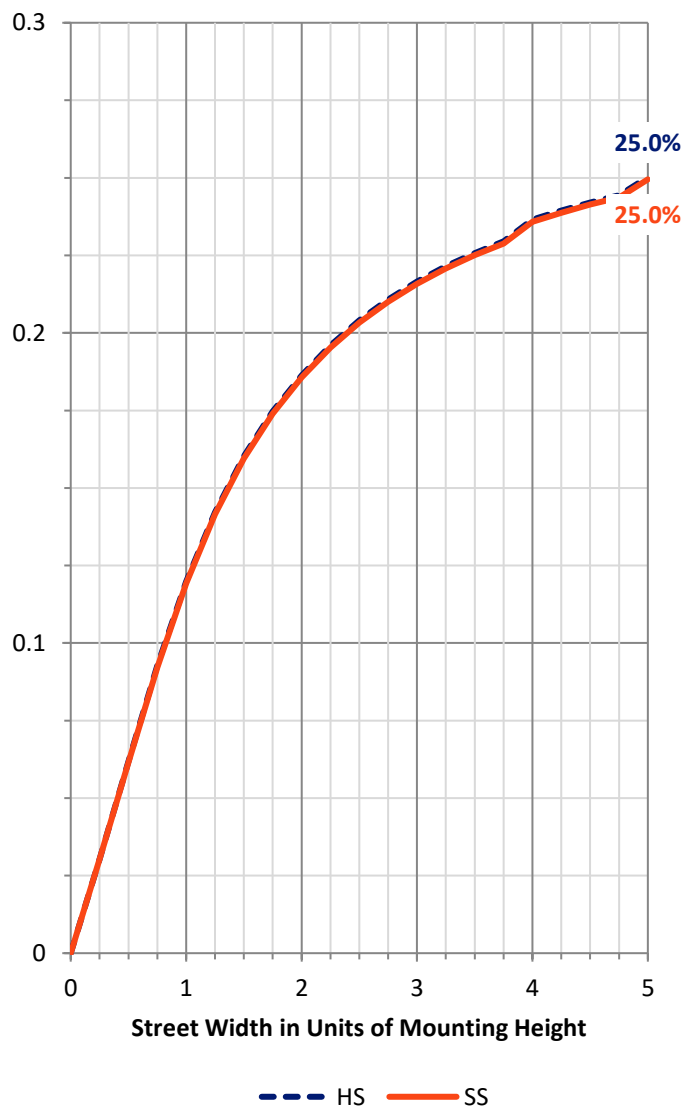
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2942.0	2252.4	5194.3
	% Fixture	28.3	21.7	50.0
Street Side	Lumens	2942.0	2252.4	5194.3
	% Fixture	28.3	21.7	50.0
Total	Lumens	5884.0	4504.7	10388.7
	% Fixture	56.6	43.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	0.1
10°-20°	74.4	0.7
20°-30°	221.9	2.1
30°-40°	464.0	4.5
40°-50°	728.3	7.0
50°-60°	945.3	9.1
60°-70°	1094.2	10.5
70°-80°	1171.4	11.3
80°-90°	1172.3	11.3
90°-100°	1105.6	10.6
100°-110°	989.2	9.5
110°-120°	831.8	8.0
120°-130°	638.0	6.1
130°-140°	436.5	4.2
140°-150°	266.3	2.6
150°-160°	145.6	1.4
160°-170°	70.6	0.7
170°-180°	21.0	0.2
0°-90°	5884.0	56.6
0°-180°	10388.7	100.0

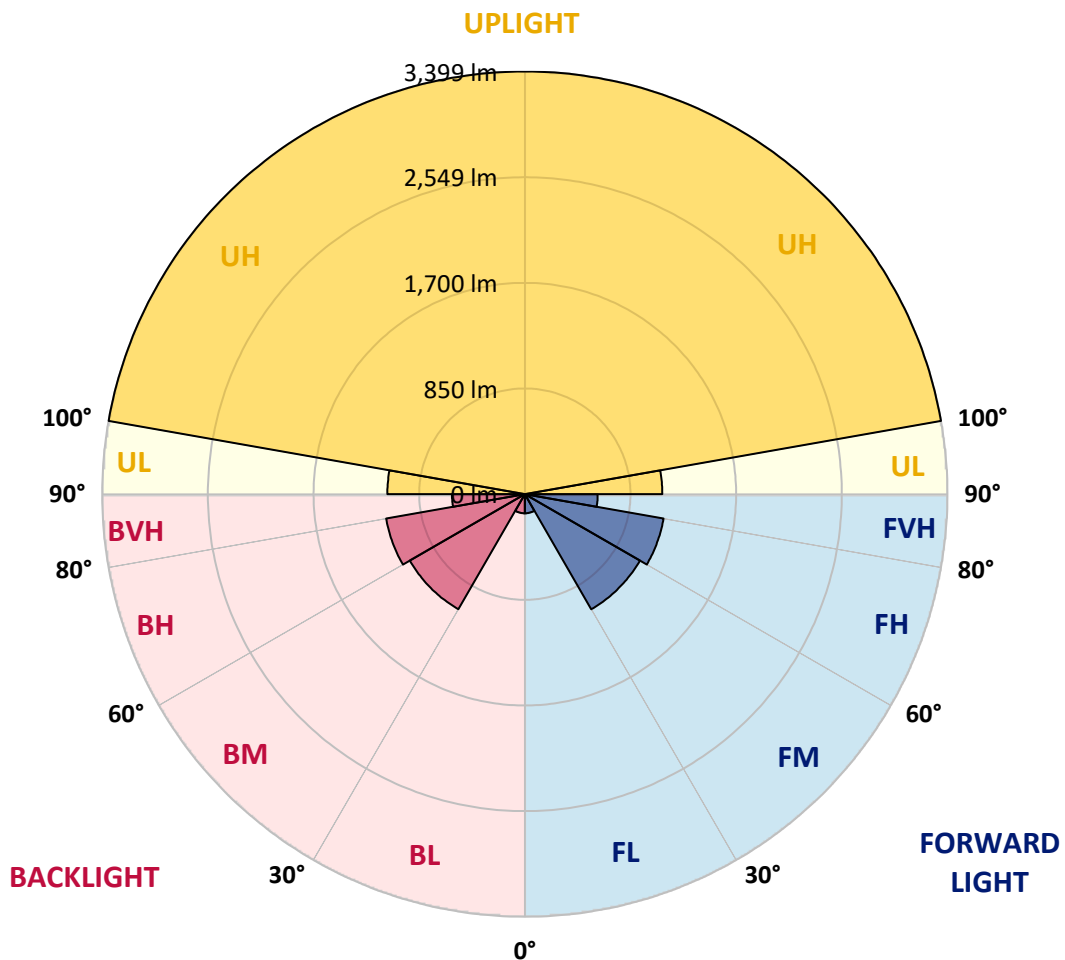


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.3	1.5			
FM (30°-60°)	1068.8	10.3			
FH (60°-80°)	1132.8	10.9			G1/1800
FVH (80°-90°)	586.2	5.6			G4/750
BL (0°-30°)	154.3	1.5	B1/500		
BM (30°-60°)	1068.8	10.3	B2/2500		
BH (60°-80°)	1132.8	10.9	B3/2500		G1/1800
BVH (80°-90°)	586.2	5.6			G4/750
UL (90°-100°)	1105.6	10.6		U5	
UH (100°-180°)	3399.1	32.7		U5	

BUG Rating: B3-U5-G4
 Type V Short





REPORT NUMBER: P856338

CATALOG NUMBER: FFX-CLB-70-727-U-VM8

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
2.5°	95.2	95.2	94.5	94.5	93.9	93.2	93.2	93.2	92.5	92.5	91.9
5°	108.5	107.9	107.9	107.2	107.9	107.2	107.2	107.2	107.2	105.9	105.9
7.5°	134.5	133.8	133.8	133.2	134.5	133.2	133.2	133.8	133.8	133.2	133.2
10°	168.4	167.8	167.8	166.4	167.8	167.1	167.1	165.8	166.4	165.8	166.4
12.5°	209.1	207.1	207.1	206.4	207.7	207.1	206.4	205.1	206.4	205.7	205.7
15°	251.0	251.7	251.0	250.3	251.7	251.7	251.0	249.7	251.0	249.7	250.3
17.5°	297.6	297.6	297.6	295.6	297.6	298.3	297.6	296.3	296.9	297.6	297.6
20°	348.2	348.2	348.9	347.5	350.9	348.9	348.2	347.5	348.2	348.9	349.5
22.5°	404.1	404.1	404.8	404.1	406.1	406.1	405.5	405.5	406.1	407.5	407.5
25°	466.1	466.7	466.7	464.7	469.4	470.7	469.4	469.4	470.7	472.7	472.7
27.5°	530.0	532.6	531.3	531.3	537.3	538.0	537.3	538.0	540.0	542.0	542.6
30°	595.9	597.9	600.5	598.6	605.2	605.9	606.5	607.2	609.9	613.2	613.2
32.5°	661.8	663.8	665.1	665.1	673.8	673.1	672.5	675.1	679.1	680.4	682.4
35°	727.7	727.7	729.0	729.7	738.4	737.7	739.0	741.0	745.0	747.7	749.0
37.5°	787.0	785.6	789.0	790.3	797.0	797.6	798.3	801.6	806.3	809.6	810.9
40°	840.9	839.6	843.6	845.6	851.6	851.6	852.9	856.9	862.2	865.5	866.2
42.5°	888.8	888.2	892.2	894.8	900.8	900.2	899.5	904.8	910.8	914.8	916.1
45°	930.1	929.5	934.8	938.1	942.8	941.4	941.4	946.1	952.8	957.4	958.1
47.5°	965.4	965.4	971.4	975.4	979.4	977.4	976.1	980.7	987.4	994.0	994.7
50°	996.7	996.0	1002.7	1007.4	1010.7	1008.0	1006.0	1010.7	1018.0	1024.7	1026.0
52.5°	1021.3	1022.7	1029.3	1035.3	1038.0	1034.0	1030.7	1035.3	1043.3	1050.6	1052.0
55°	1042.6	1043.3	1050.6	1058.0	1059.3	1054.0	1050.0	1054.0	1062.6	1070.6	1071.9
57.5°	1059.3	1060.6	1069.3	1075.9	1076.6	1070.6	1065.9	1069.3	1078.6	1086.6	1088.6
60°	1073.9	1075.3	1083.3	1090.6	1091.2	1083.9	1077.9	1080.6	1090.6	1099.9	1101.2
62.5°	1085.3	1087.2	1095.9	1102.6	1102.6	1093.9	1086.6	1089.2	1099.9	1109.9	1111.2
65°	1094.6	1096.6	1105.2	1111.9	1111.2	1101.2	1093.2	1095.9	1107.2	1117.2	1119.2
67.5°	1101.2	1102.6	1111.9	1118.5	1115.9	1105.2	1097.2	1099.2	1111.2	1121.2	1123.2
70°	1105.2	1106.6	1115.9	1121.9	1117.9	1106.6	1097.9	1100.6	1112.5	1123.2	1125.2
72.5°	1107.2	1109.2	1117.9	1123.2	1118.5	1105.9	1096.6	1099.9	1111.9	1123.2	1124.5
75°	1106.6	1107.9	1116.5	1121.2	1115.2	1103.2	1093.2	1096.6	1109.2	1119.2	1121.2
77.5°	1103.2	1104.6	1112.5	1116.5	1109.2	1097.2	1087.9	1091.2	1103.2	1113.2	1115.2
80°	1097.9	1099.2	1106.6	1109.2	1101.9	1089.9	1081.3	1084.6	1095.9	1105.2	1107.2
82.5°	1089.2	1091.2	1097.9	1099.2	1091.2	1080.6	1071.9	1075.3	1085.9	1094.6	1095.9
85°	1078.6	1079.9	1085.9	1086.6	1078.6	1069.3	1061.9	1065.3	1074.6	1081.3	1083.3
87.5°	1066.6	1066.6	1072.6	1072.6	1063.9	1055.3	1050.0	1052.6	1061.3	1066.6	1068.6
90°	1052.0	1052.6	1056.6	1056.0	1048.0	1040.6	1036.0	1039.3	1046.6	1051.3	1052.6
92.5°	1036.0	1036.6	1040.0	1038.6	1030.7	1024.7	1020.7	1024.7	1031.3	1034.6	1036.0
95°	1018.7	1019.3	1022.0	1019.3	1012.0	1007.4	1004.0	1008.7	1014.0	1017.3	1018.7
97.5°	1000.7	1001.4	1003.4	1000.7	992.7	988.7	987.4	991.4	996.7	999.4	1000.7
100°	982.1	982.1	983.4	979.4	972.7	969.4	968.7	973.4	978.7	981.4	982.7
102.5°	961.4	962.1	962.1	958.1	951.4	949.4	949.4	954.8	960.1	962.1	963.4
105°	940.1	940.1	940.1	936.8	929.5	928.1	928.8	934.1	940.1	942.8	944.1
107.5°	916.8	917.5	916.1	912.8	906.8	905.5	906.8	914.1	919.5	922.1	923.5
110°	892.2	892.8	892.2	888.2	882.8	882.2	884.2	891.5	896.8	899.5	901.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	866.2	866.9	866.2	862.9	857.5	857.5	860.2	867.5	873.5	875.5	877.5
115°	838.9	839.6	838.2	835.6	830.2	831.6	834.2	841.6	847.6	849.6	852.2
117.5°	809.6	810.3	809.6	806.3	801.6	803.0	806.9	814.3	819.6	821.6	824.3
120°	777.7	777.7	777.7	774.3	769.7	772.3	776.3	784.3	789.0	790.3	793.0
122.5°	745.0	743.7	743.7	741.7	736.4	739.7	743.7	751.7	756.3	757.0	759.0
125°	709.1	709.7	707.7	706.4	701.8	705.7	709.1	717.1	721.1	721.7	723.7
127.5°	670.5	672.5	670.5	668.5	665.1	669.1	673.1	680.4	683.8	684.4	685.8
130°	634.5	634.5	632.5	631.2	627.8	631.8	635.8	642.5	645.8	645.8	647.2
132.5°	598.6	596.6	595.9	594.6	590.6	595.2	597.9	604.5	607.2	606.5	607.9
135°	559.3	559.3	557.3	556.6	553.3	557.9	560.6	566.6	568.6	567.9	569.3
137.5°	522.7	522.7	521.3	520.0	518.0	522.0	524.6	529.3	531.3	529.3	531.3
140°	486.7	486.7	486.0	484.7	482.7	486.7	488.7	492.7	494.7	492.7	494.0
142.5°	453.4	452.1	451.4	450.7	448.1	452.1	453.4	457.4	458.1	456.7	458.7
145°	418.1	418.8	418.1	417.5	415.5	418.8	420.1	423.4	424.1	422.8	424.8
147.5°	388.8	386.8	387.5	386.8	384.8	388.2	388.8	390.8	392.2	390.8	392.2
150°	359.5	358.2	358.2	357.5	356.2	358.9	359.5	361.5	362.2	360.9	362.2
152.5°	333.6	332.9	332.9	332.2	330.9	332.9	333.6	334.9	335.6	334.2	334.9
155°	310.3	309.6	309.6	308.9	307.6	309.6	309.6	310.9	311.6	310.9	311.6
157.5°	289.6	289.0	289.0	289.0	287.6	289.0	289.0	290.3	290.3	289.6	290.3
160°	273.0	271.6	272.3	271.6	270.3	271.6	271.6	272.3	272.3	272.3	272.3
162.5°	257.7	257.7	257.7	257.0	256.3	257.0	257.0	257.7	257.7	257.7	257.0
165°	245.7	245.7	245.7	245.0	244.3	245.0	245.0	245.0	245.0	245.0	245.0
167.5°	235.7	235.0	235.7	235.0	234.4	235.0	235.0	235.0	235.0	235.0	235.0
170°	227.0	227.0	227.0	227.0	226.4	227.0	227.0	227.0	227.0	227.0	227.0
172.5°	221.7	221.0	221.0	221.0	220.4	221.0	220.4	221.0	220.4	221.0	220.4
175°	217.1	217.1	217.1	217.1	216.4	216.4	216.4	216.4	216.4	216.4	216.4
177.5°	214.4	214.4	214.4	214.4	214.4	214.4	214.4	214.4	214.4	214.4	214.4
180°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7

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: SP1-2406-133-3

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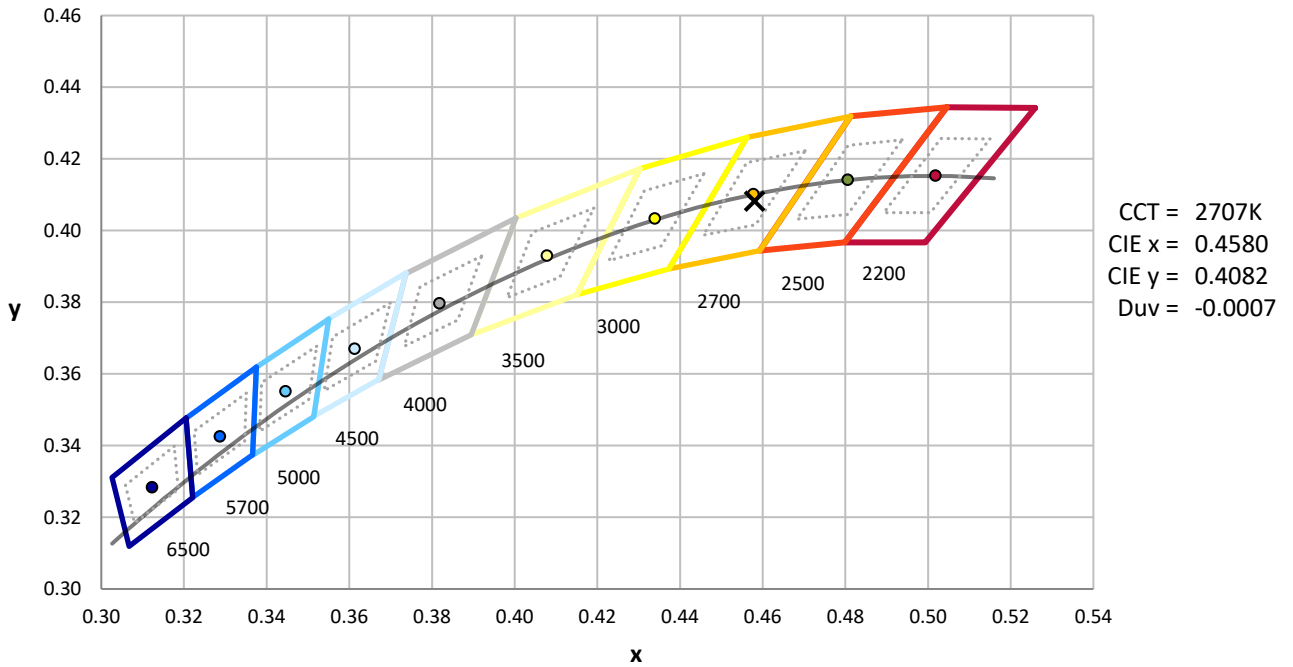
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



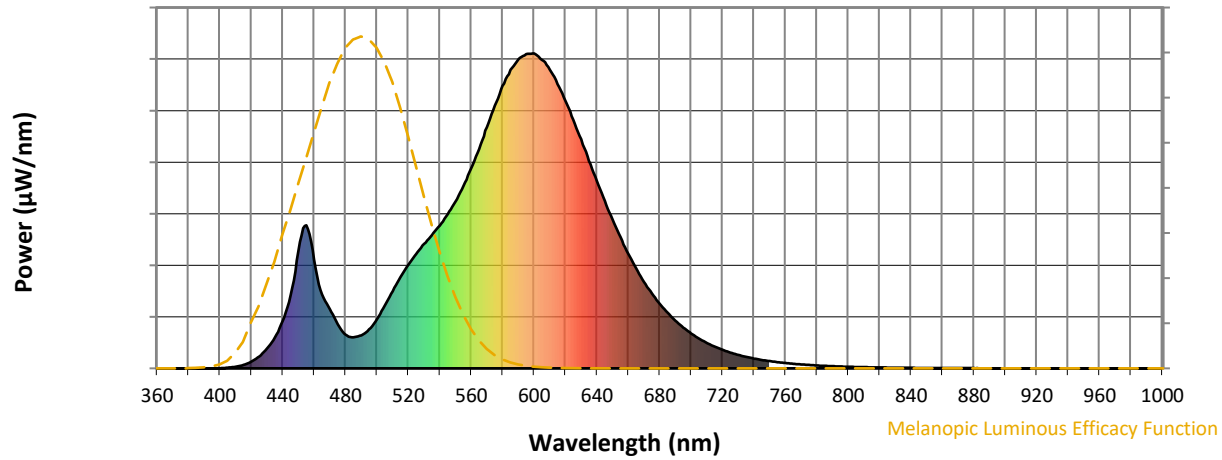
Scotopic Lumens: NR

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			

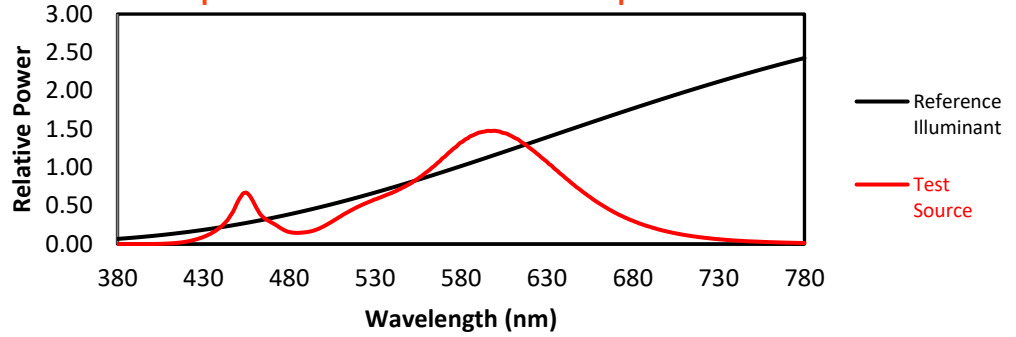
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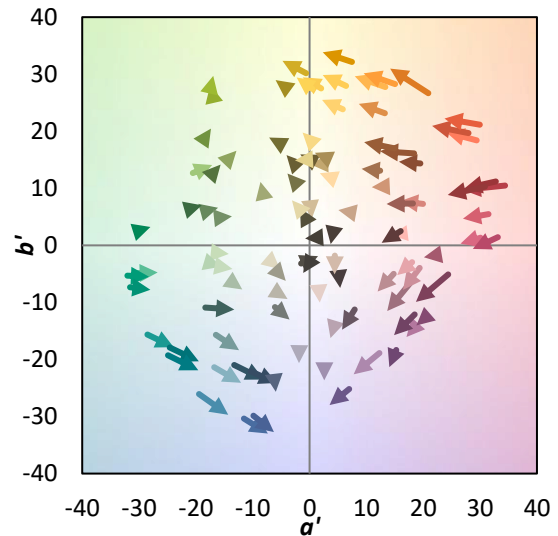
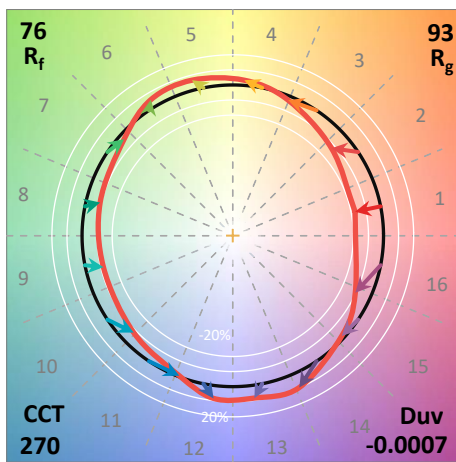
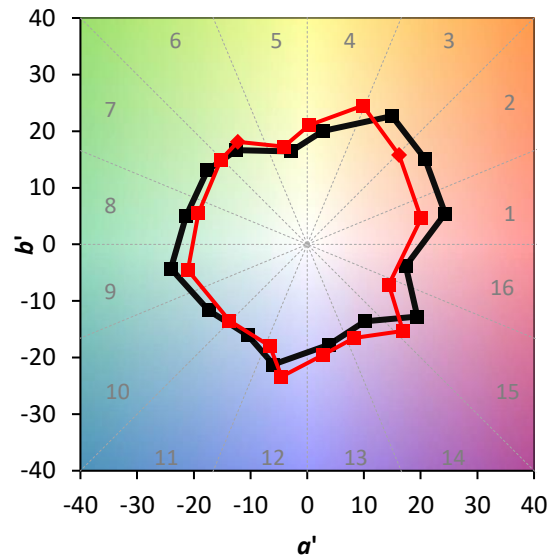
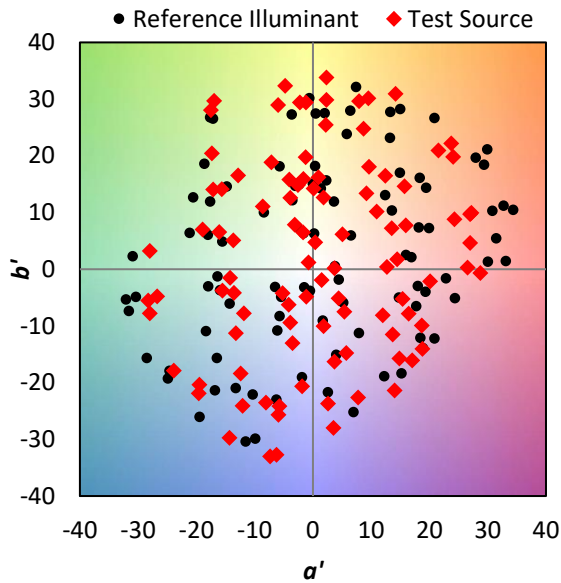
Summary

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

Spectral Power Distribution Comparison



Color Vector Graphics



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

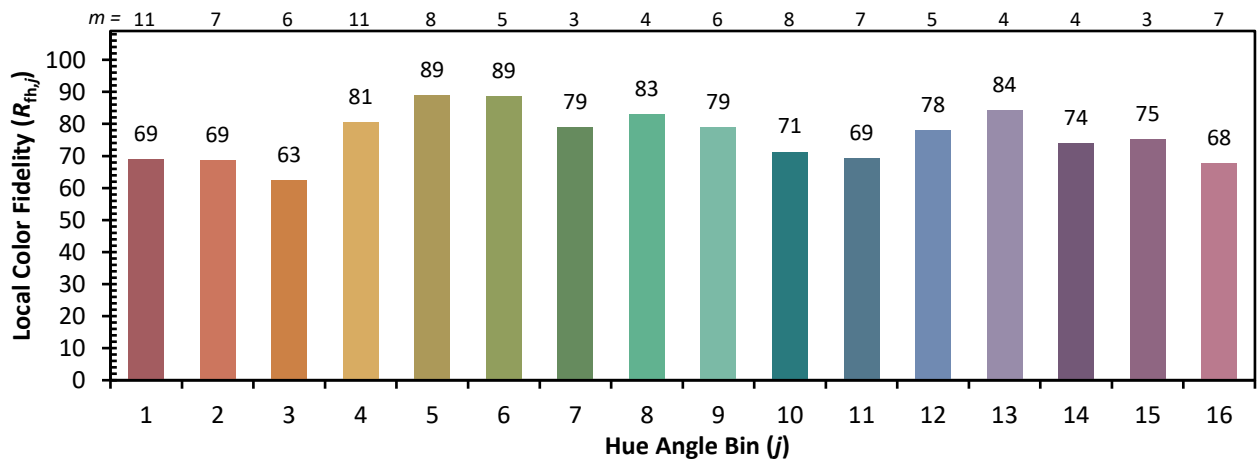
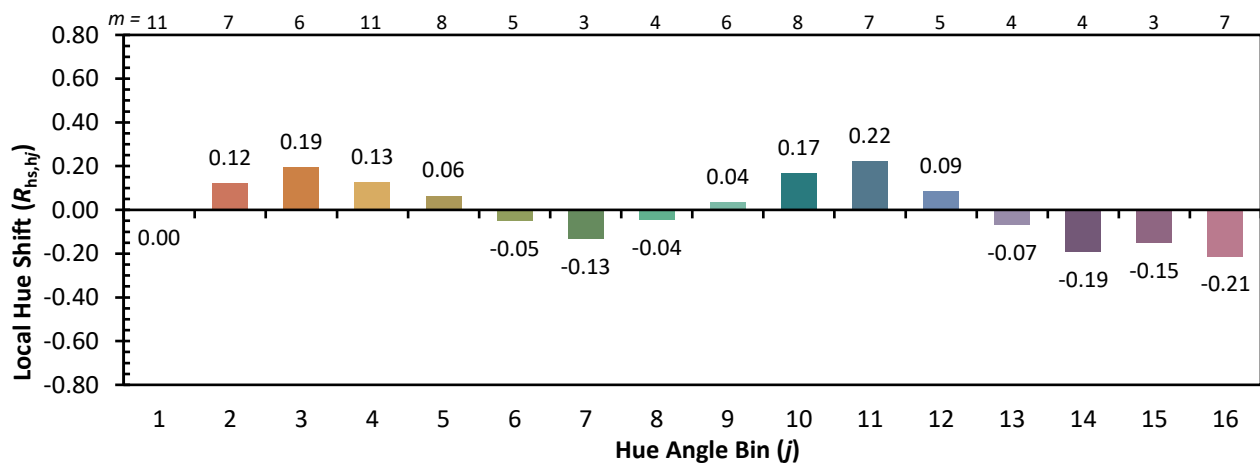
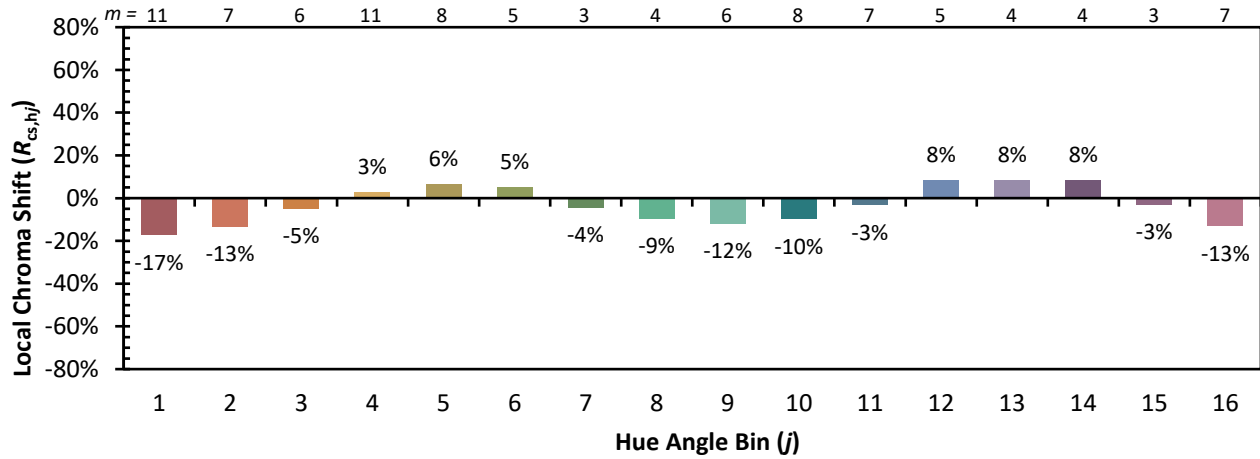
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CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 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	



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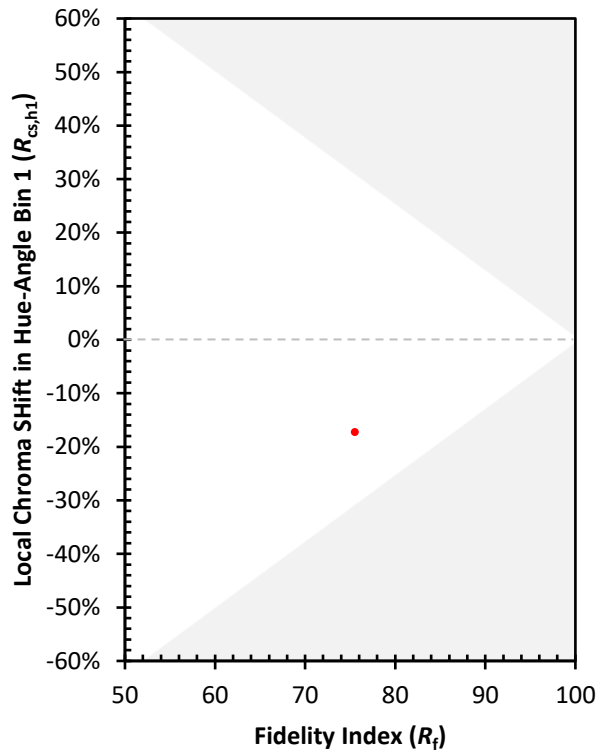
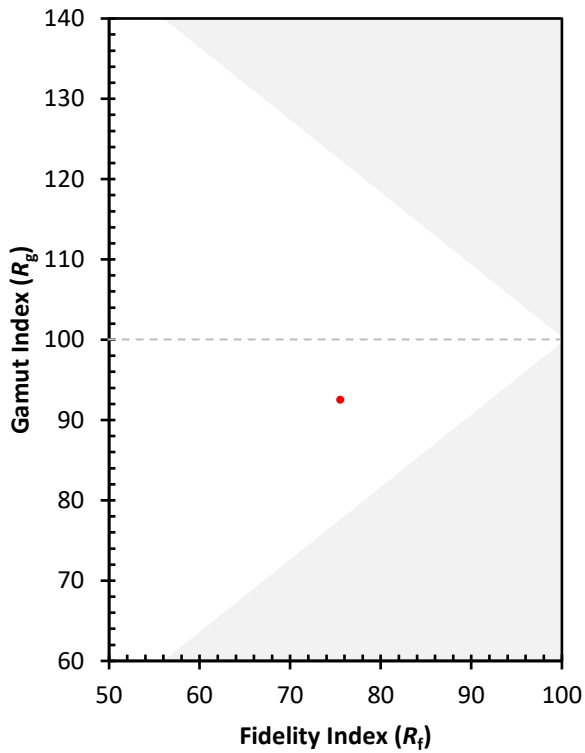
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)