

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: P856158

Luminaire Tested: **FFX-CLB-70-727-U-FR-T5-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856158
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-FR-T5-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

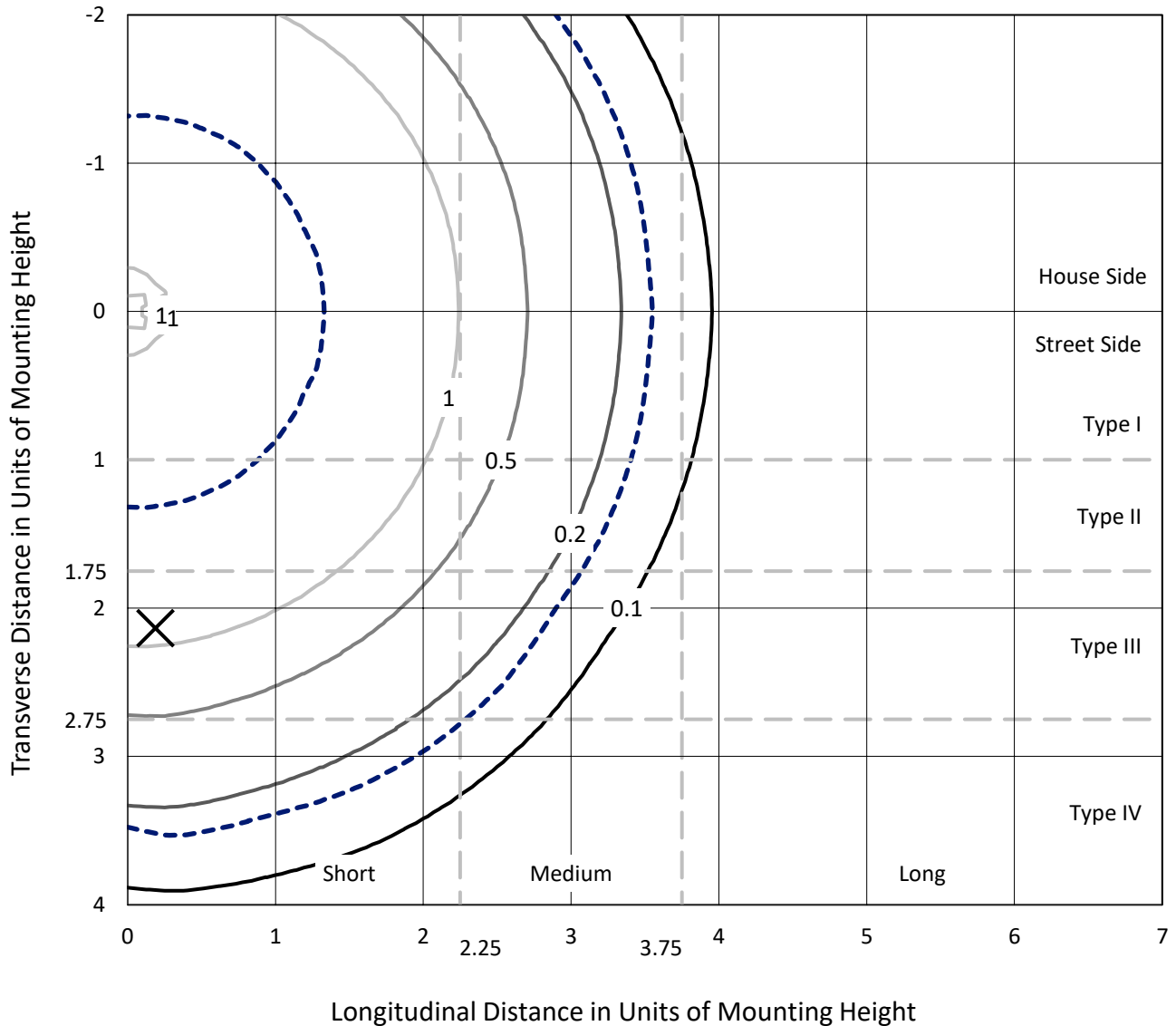
Lumens per Lamp: N/A
Luminaire Lumens: 10220.3 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B4 - U4 - G3

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

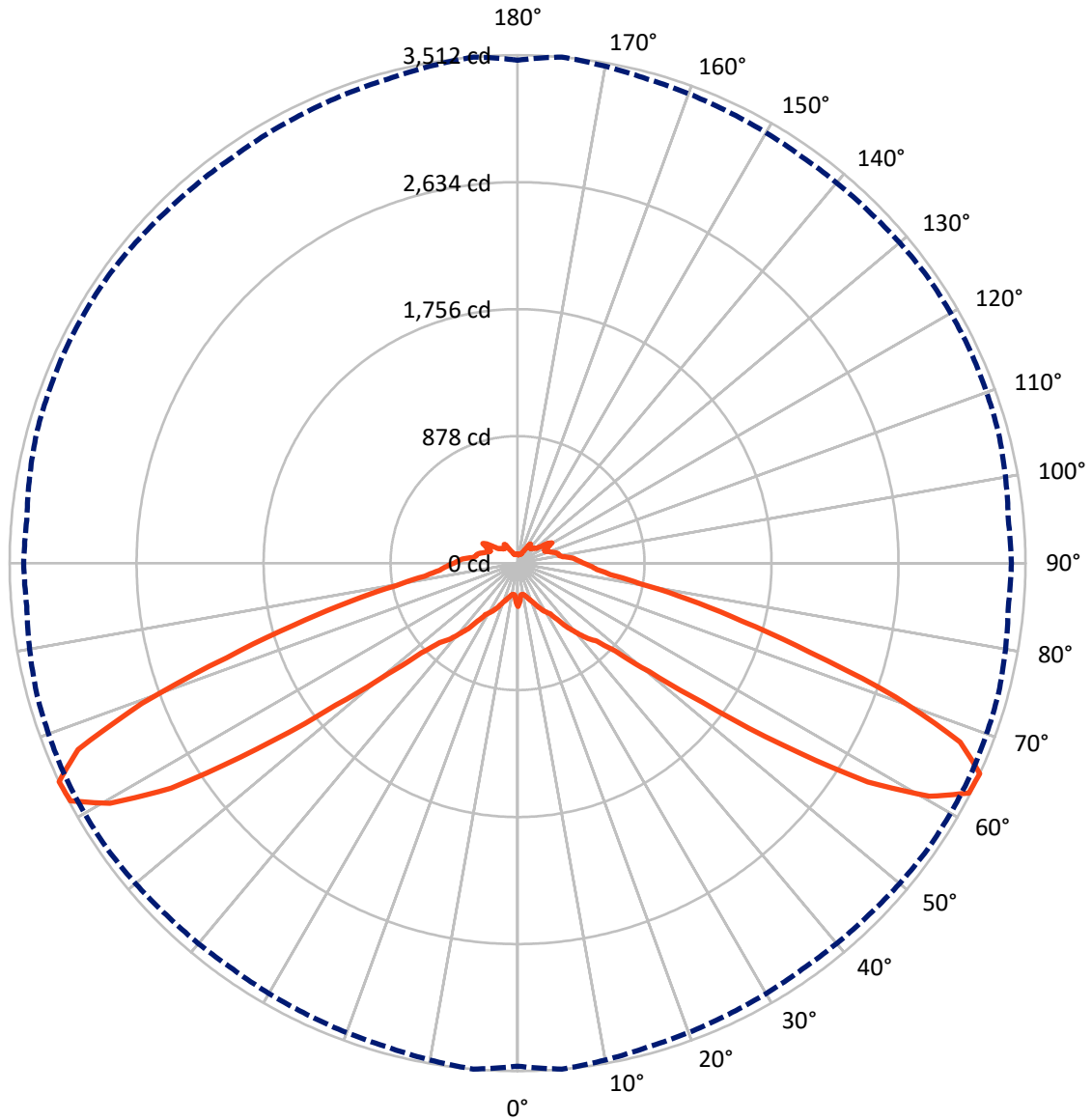
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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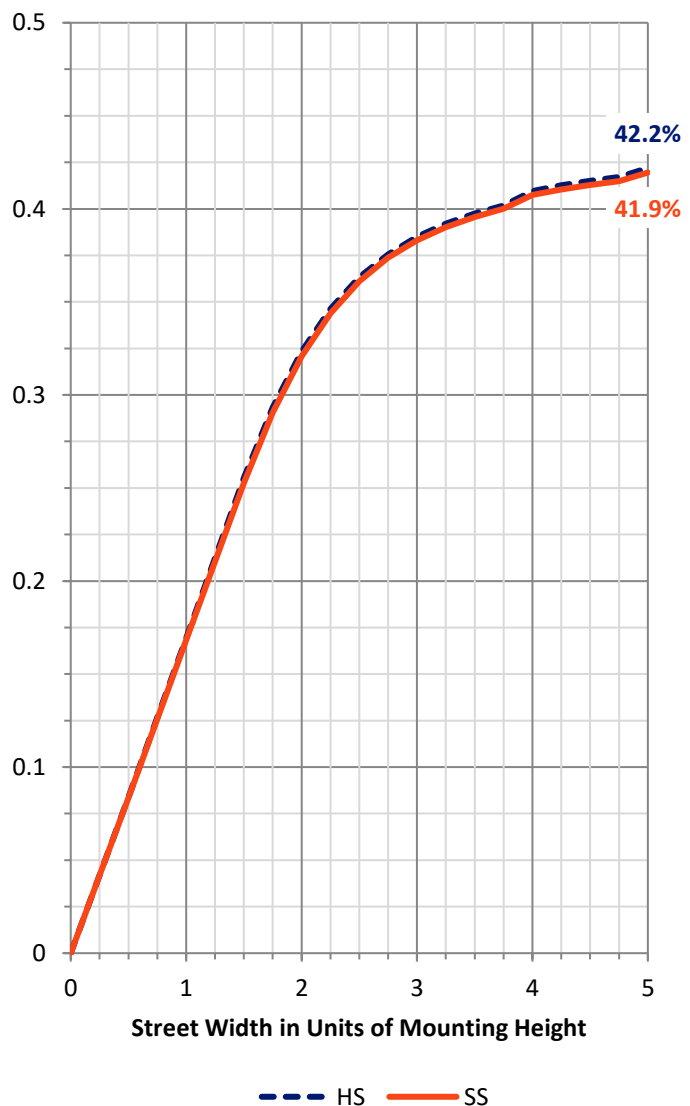
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4464.4	645.8	5110.2
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	4464.4	645.8	5110.2
	% Fixture	43.7	6.3	50.0
Total	Lumens	8928.7	1291.6	10220.3
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.2
10°-20°	71.7	0.7
20°-30°	155.6	1.5
30°-40°	315.1	3.1
40°-50°	635.3	6.2
50°-60°	2019.7	19.8
60°-70°	3257.1	31.9
70°-80°	1776.2	17.4
80°-90°	676.3	6.6
90°-100°	405.8	4.0
100°-110°	258.9	2.5
110°-120°	196.9	1.9
120°-130°	166.6	1.6
130°-140°	108.5	1.1
140°-150°	91.0	0.9
150°-160°	40.8	0.4
160°-170°	17.3	0.2
170°-180°	5.8	0.1
0°-90°	8928.7	87.4
0°-180°	10220.3	100.0



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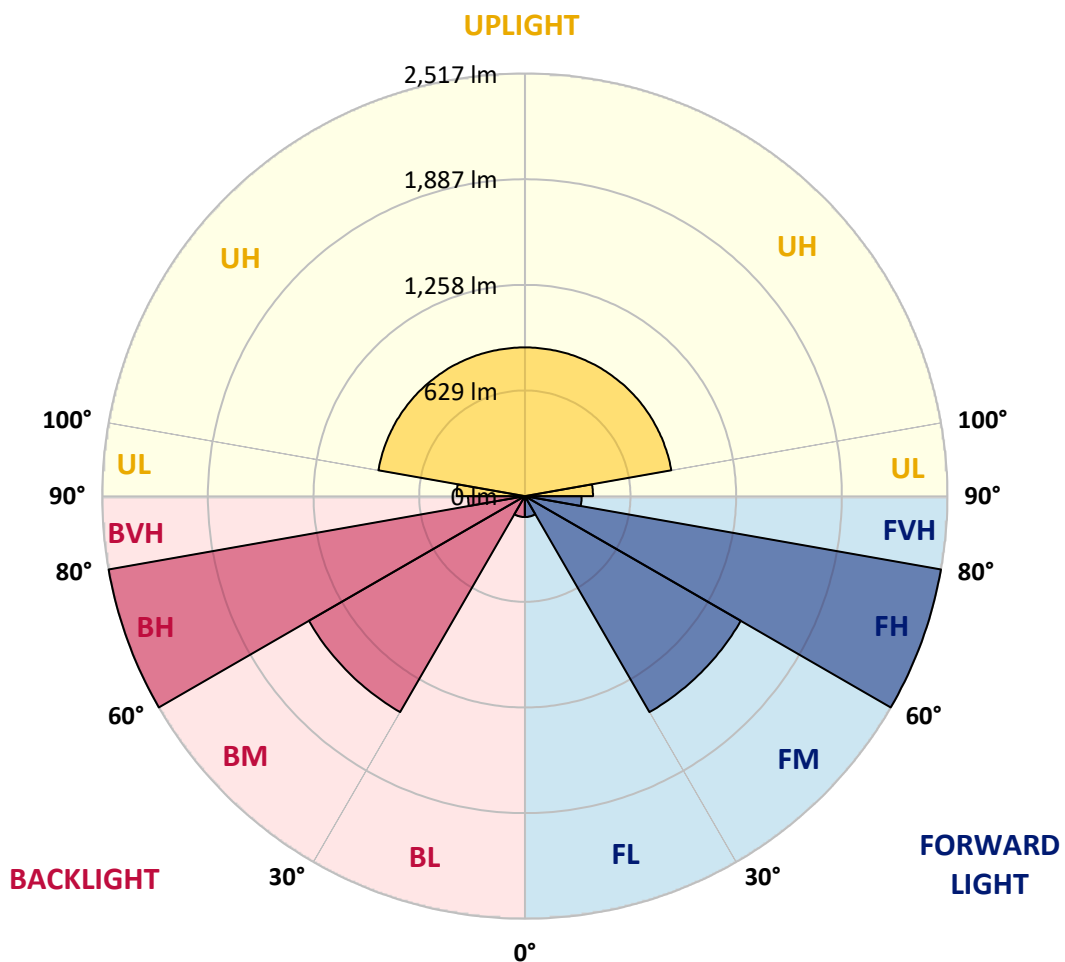
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T5-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	124.5	1.2			
FM (30°-60°)	1485.0	14.5			
FH (60°-80°)	2516.7	24.6			G2/5000
FVH (80°-90°)	338.2	3.3			G3/500
BL (0°-30°)	124.5	1.2	B1/500		
BM (30°-60°)	1485.0	14.5	B2/2500		
BH (60°-80°)	2516.7	24.6	B4/5000		G2/5000
BVH (80°-90°)	338.2	3.3			G3/500
UL (90°-100°)	405.8	4.0		U3/500	
UH (100°-180°)	885.7	8.7		U4/1000	

BUG Rating: B4-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9
2.5°	267.9	272.2	260.4	250.8	246.6	247.6	257.2	266.8	257.2	260.4	260.4
5°	222.0	223.1	223.1	220.9	224.1	217.7	210.3	210.3	217.7	226.3	226.3
7.5°	214.5	217.7	226.3	226.3	229.5	218.8	208.1	209.2	219.9	232.7	235.9
10°	220.9	220.9	218.8	220.9	228.4	227.3	215.6	210.3	217.7	230.5	234.8
12.5°	230.5	230.5	237.0	246.6	247.6	238.0	226.3	225.2	233.7	242.3	242.3
15°	244.4	245.5	248.7	247.6	250.8	247.6	244.4	246.6	251.9	251.9	251.9
17.5°	262.6	262.6	262.6	262.6	262.6	263.6	264.7	264.7	264.7	266.8	266.8
20°	282.8	282.8	281.8	280.7	280.7	281.8	282.8	282.8	282.8	285.0	285.0
22.5°	308.5	307.4	305.3	305.3	305.3	306.3	304.2	303.1	302.1	303.1	303.1
25°	338.3	338.3	336.2	333.0	333.0	331.9	328.7	327.7	326.6	328.7	327.7
27.5°	368.2	368.2	365.0	360.8	360.8	360.8	358.6	356.5	354.4	355.4	355.4
30°	396.0	393.9	392.8	389.6	388.5	389.6	387.4	387.4	383.2	382.1	384.2
32.5°	421.6	419.5	421.6	418.4	415.2	418.4	417.3	417.3	410.9	408.8	410.9
35°	492.0	486.7	491.0	483.5	479.2	480.3	482.4	486.7	480.3	477.1	478.2
37.5°	567.8	566.8	580.6	592.4	590.2	572.1	560.4	562.5	571.0	582.8	582.8
40°	638.3	636.1	639.3	635.1	635.1	632.9	631.9	637.2	620.1	615.9	612.7
42.5°	711.9	710.9	692.7	667.1	661.8	683.1	692.7	700.2	675.6	667.1	660.7
45°	784.5	769.6	766.4	757.8	749.3	763.2	762.1	767.4	755.7	754.6	749.3
47.5°	937.1	909.4	899.8	900.8	882.7	897.6	904.0	921.1	896.6	897.6	896.6
50°	1212.5	1177.3	1193.3	1182.6	1163.4	1181.6	1180.5	1211.4	1170.9	1185.8	1179.4
52.5°	1642.6	1594.6	1604.2	1597.8	1578.6	1616.0	1624.5	1670.4	1592.5	1611.7	1606.4
55°	2264.9	2212.6	2234.0	2157.1	2136.8	2210.5	2238.2	2291.6	2188.1	2198.7	2193.4
57.5°	2858.3	2855.1	2891.4	2837.0	2818.9	2871.2	2845.5	2892.5	2837.0	2876.5	2863.7
60°	3262.9	3271.4	3307.7	3323.7	3291.7	3319.4	3257.5	3292.8	3275.7	3333.3	3328.0
62.5°	3473.1	3500.9	3479.5	3480.6	3445.4	3466.7	3455.0	3475.3	3471.0	3476.3	3471.0
65°	3477.4	3511.6	3464.6	3443.3	3428.3	3436.8	3457.1	3457.1	3444.3	3405.9	3414.4
67.5°	3250.1	3301.3	3249.0	3219.1	3227.6	3224.4	3238.3	3220.2	3212.7	3156.1	3157.2
70°	2690.8	2773.0	2696.1	2668.4	2690.8	2704.7	2703.6	2688.6	2676.9	2606.5	2626.7
72.5°	2042.9	2115.5	2047.2	2036.5	2057.8	2079.2	2061.0	2079.2	2060.0	2028.0	2037.6
75°	1542.3	1604.2	1604.2	1644.8	1651.2	1639.4	1589.3	1609.6	1622.4	1623.4	1633.0
77.5°	1134.6	1199.7	1233.8	1300.0	1296.8	1276.5	1215.7	1239.2	1263.7	1280.8	1292.6
80°	806.9	856.0	906.2	953.1	959.5	942.5	905.1	919.0	933.9	945.7	952.1
82.5°	625.5	647.9	638.3	632.9	641.5	666.0	674.6	683.1	661.8	647.9	653.2
85°	545.4	547.5	564.6	576.4	579.6	579.6	571.0	577.4	582.8	596.6	596.6
87.5°	497.4	499.5	542.2	554.0	558.2	552.9	542.2	546.5	550.7	559.3	559.3
90°	441.9	448.3	491.0	500.6	504.9	496.3	493.1	496.3	491.0	494.2	494.2
92.5°	410.9	410.9	431.2	426.9	425.9	426.9	428.0	431.2	425.9	423.7	423.7
95°	375.7	381.0	375.7	380.0	378.9	373.6	371.4	373.6	370.4	370.4	372.5
97.5°	314.9	315.9	306.3	309.5	309.5	305.3	299.9	302.1	298.9	301.0	302.1
100°	294.6	291.4	275.4	273.2	272.2	269.0	265.8	265.8	264.7	263.6	264.7
102.5°	288.2	288.2	266.8	262.6	260.4	255.1	250.8	250.8	250.8	250.8	251.9
105°	263.6	271.1	255.1	251.9	248.7	242.3	235.9	234.8	237.0	234.8	238.0
107.5°	239.1	245.5	237.0	237.0	233.7	227.3	223.1	222.0	223.1	220.9	223.1
110°	225.2	228.4	218.8	218.8	216.7	211.3	210.3	209.2	209.2	206.0	208.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	208.1	208.1	200.7	198.5	198.5	195.3	194.3	193.2	193.2	193.2	194.3
115°	207.1	206.0	194.3	186.8	185.7	184.7	185.7	184.7	184.7	183.6	183.6
117.5°	253.0	242.3	202.8	184.7	184.7	185.7	190.0	186.8	179.3	179.3	178.2
120°	273.2	275.4	233.7	214.5	210.3	204.9	203.9	201.7	194.3	193.2	197.5
122.5°	241.2	251.9	226.3	218.8	214.5	208.1	203.9	202.8	202.8	197.5	204.9
125°	187.9	197.5	184.7	183.6	182.5	183.6	181.4	181.4	183.6	180.4	181.4
127.5°	161.2	165.4	160.1	160.1	159.0	158.0	155.8	156.9	155.8	156.9	158.0
130°	154.8	158.0	152.6	150.5	150.5	151.6	151.6	151.6	148.4	146.2	147.3
132.5°	153.7	152.6	144.1	139.8	139.8	147.3	150.5	150.5	143.0	137.7	137.7
135°	138.8	139.8	138.8	133.4	134.5	136.6	139.8	140.9	133.4	130.2	131.3
137.5°	133.4	136.6	137.7	135.6	135.6	133.4	132.4	133.4	131.3	132.4	132.4
140°	133.4	134.5	137.7	139.8	137.7	135.6	135.6	135.6	136.6	139.8	142.0
142.5°	136.6	137.7	136.6	135.6	138.8	144.1	148.4	148.4	145.2	143.0	144.1
145°	156.9	160.1	160.1	156.9	159.0	156.9	156.9	154.8	154.8	154.8	155.8
147.5°	149.4	148.4	150.5	153.7	150.5	149.4	149.4	150.5	152.6	153.7	154.8
150°	117.4	114.2	116.3	122.7	121.7	121.7	121.7	122.7	123.8	123.8	124.9
152.5°	92.9	92.9	95.0	95.0	96.1	96.1	95.0	95.0	95.0	96.1	96.1
155°	83.3	82.2	84.3	87.5	85.4	85.4	85.4	85.4	85.4	85.4	86.5
157.5°	72.6	71.5	71.5	72.6	72.6	72.6	72.6	73.6	73.6	72.6	73.6
160°	66.2	66.2	65.1	65.1	65.1	66.2	67.2	67.2	66.2	65.1	65.1
162.5°	63.0	63.0	60.8	59.8	59.8	60.8	63.0	63.0	60.8	59.8	59.8
165°	63.0	61.9	58.7	56.6	56.6	58.7	61.9	61.9	58.7	56.6	56.6
167.5°	61.9	61.9	59.8	57.6	57.6	59.8	60.8	61.9	60.8	58.7	57.6
170°	59.8	59.8	60.8	60.8	59.8	59.8	59.8	59.8	60.8	60.8	60.8
172.5°	61.9	60.8	61.9	63.0	63.0	61.9	60.8	60.8	61.9	63.0	63.0
175°	63.0	63.0	61.9	61.9	61.9	60.8	60.8	60.8	61.9	63.0	61.9
177.5°	56.6	56.6	55.5	56.6	56.6	56.6	55.5	56.6	56.6	56.6	57.6
180°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4

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: SP1-2406-133-3

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

REPORT NUMBER: SP1-2406-133-3

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



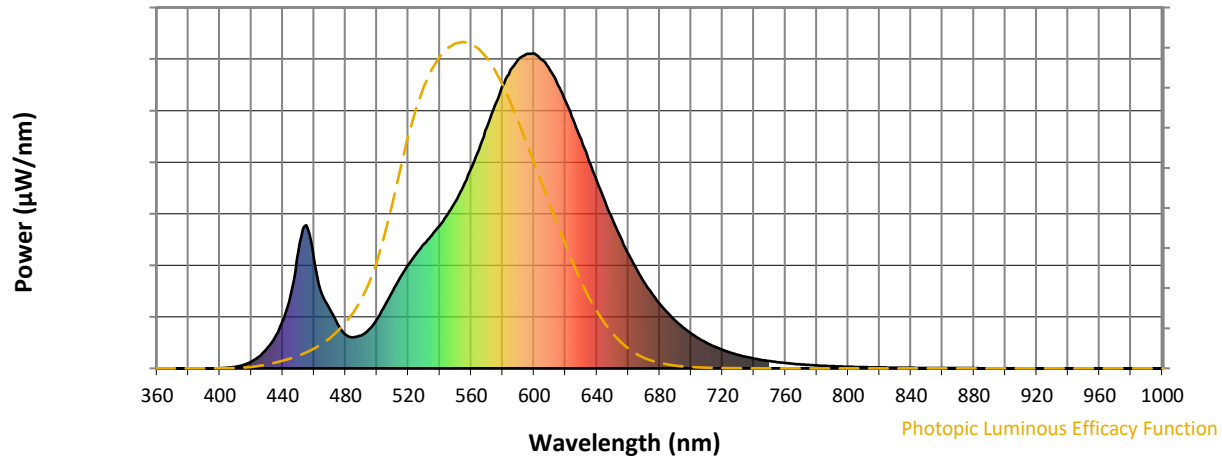
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

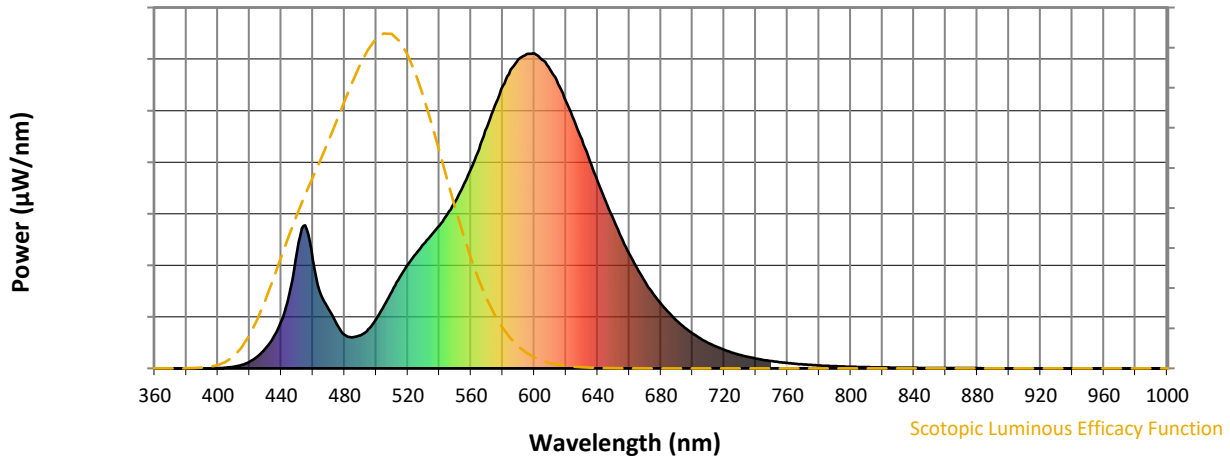


Photopic Lumens: NR

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



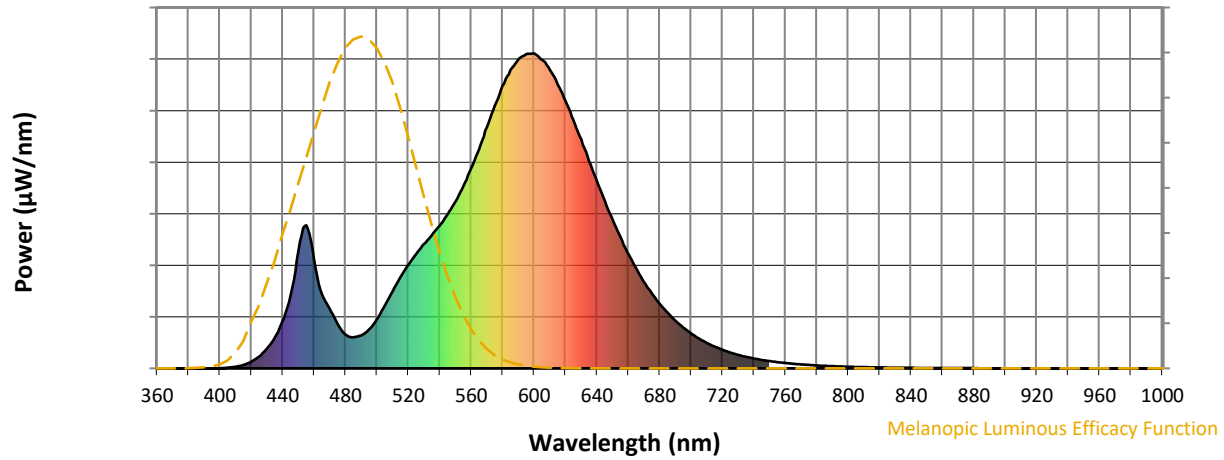
Scotopic Lumens: NR

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			

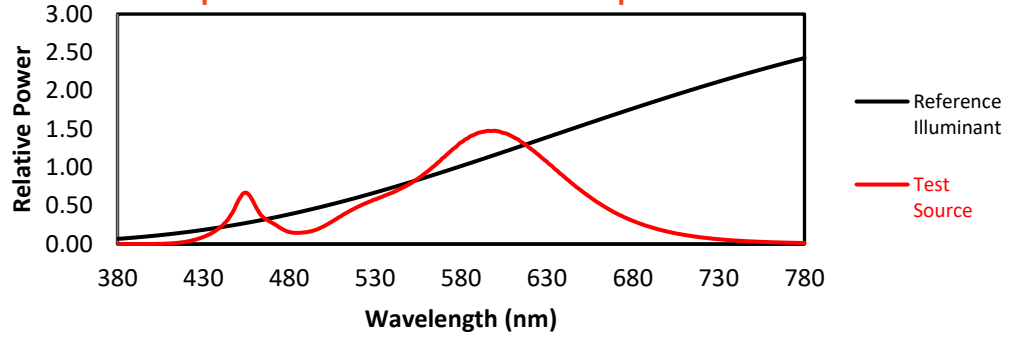
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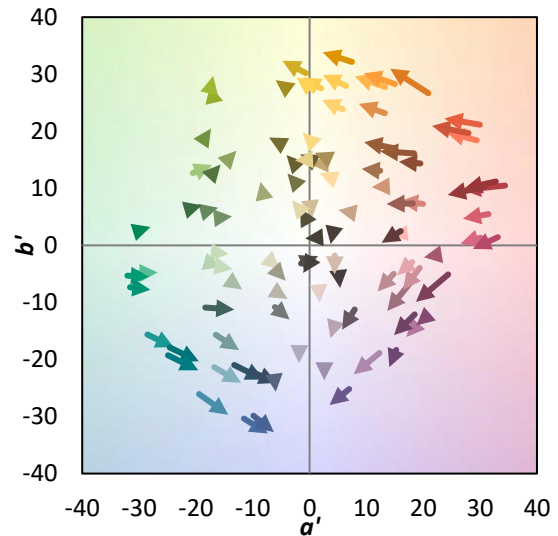
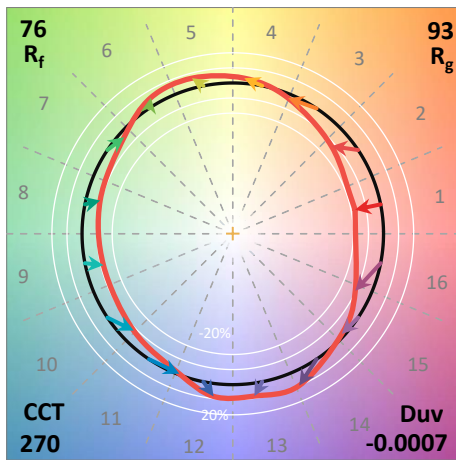
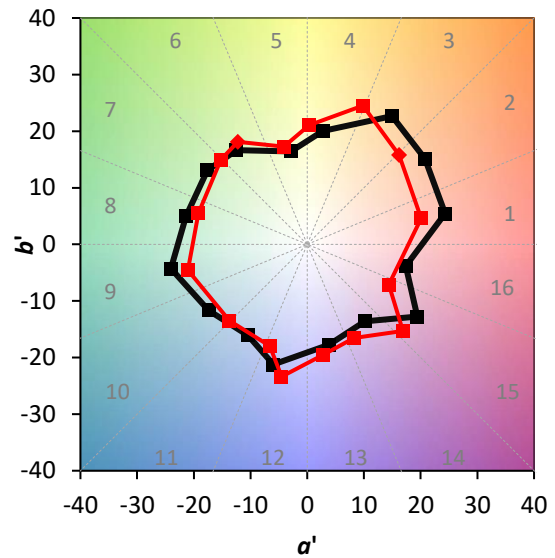
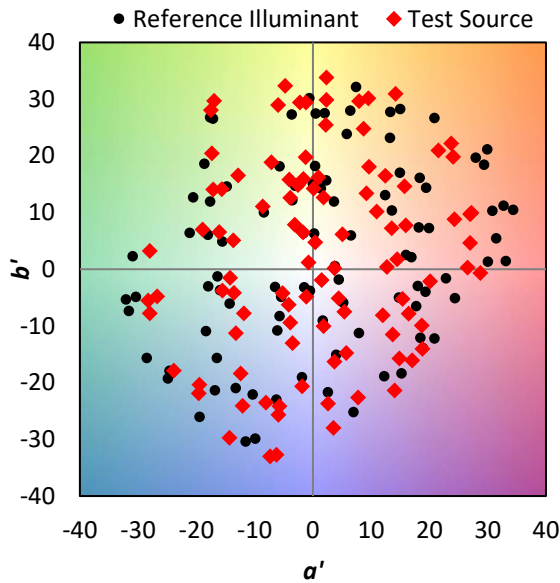
Summary

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

Spectral Power Distribution Comparison



Color Vector Graphics



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

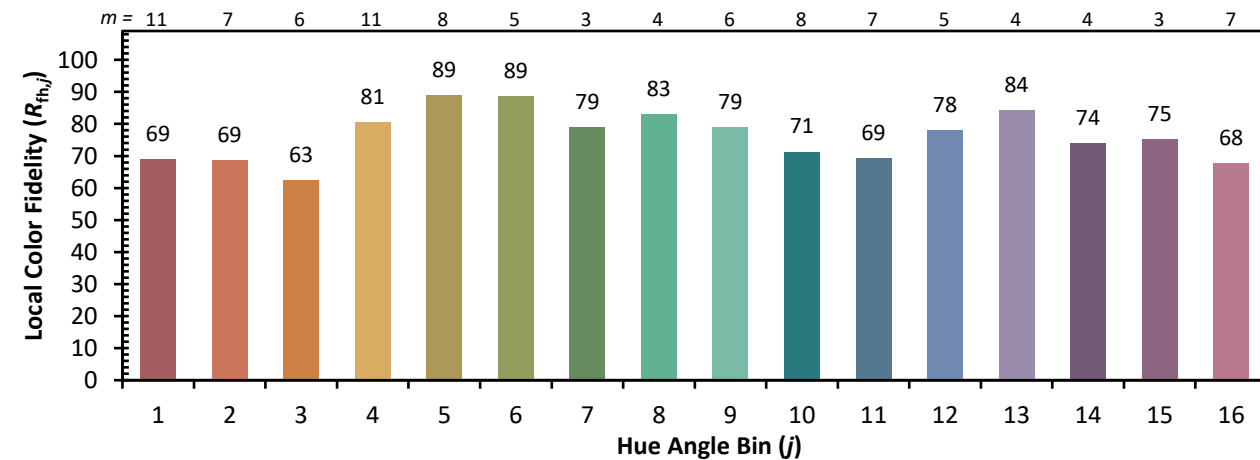
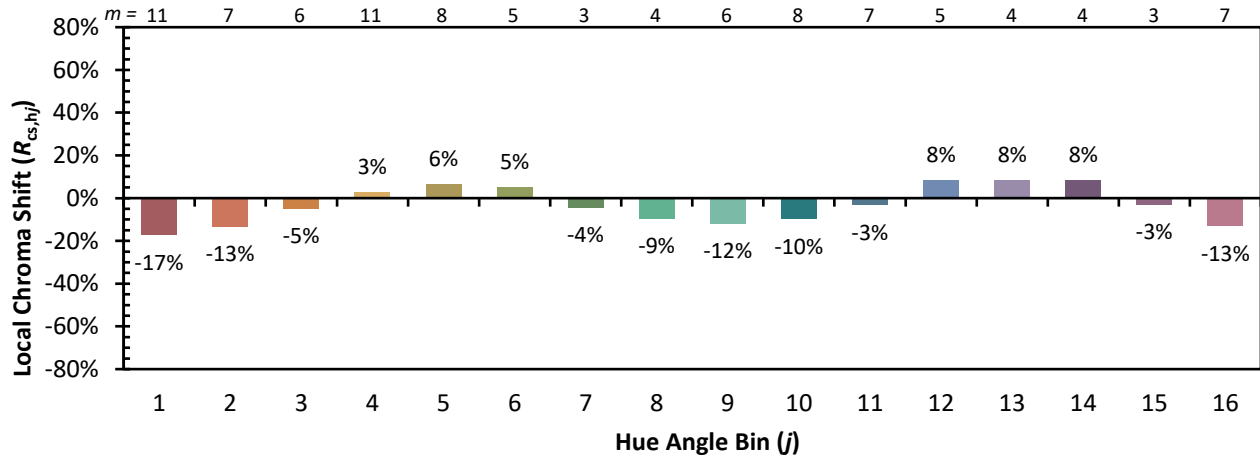
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CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 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	



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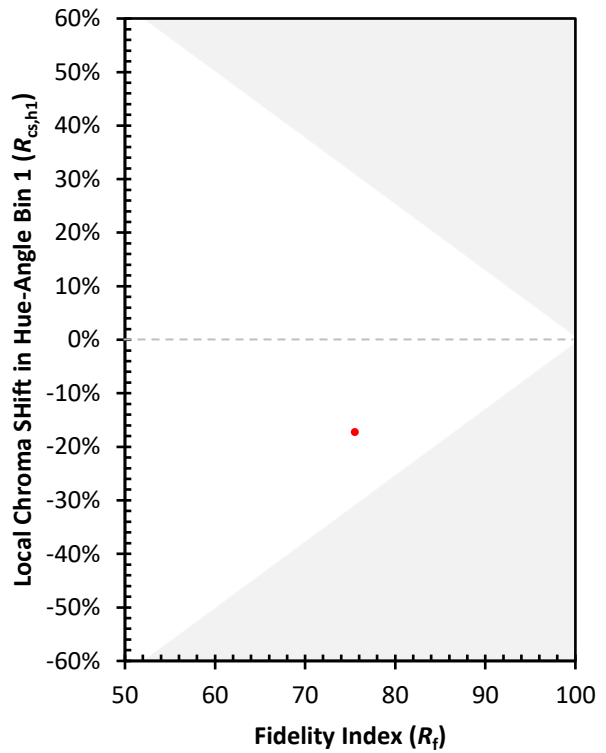
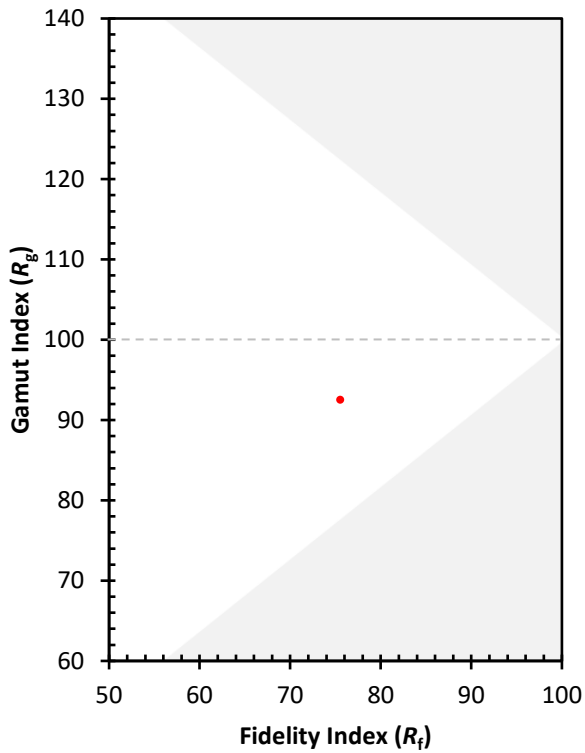
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)