

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: P856307

Luminaire Tested: **FFX-CLB-20-730-U-FG**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856307
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-20-730-U-FG
Description: FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

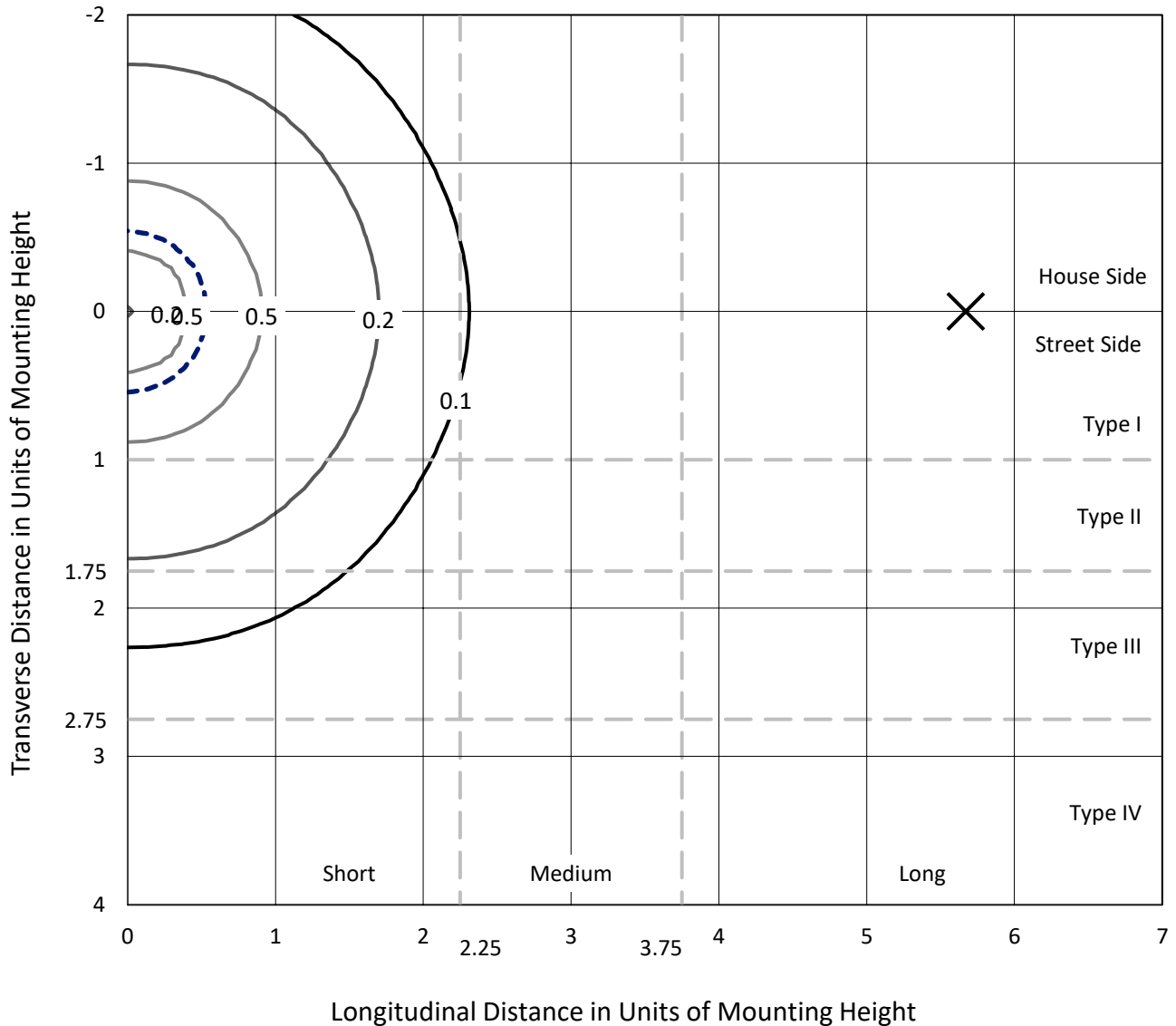
Lumens per Lamp: N/A
Luminaire Lumens: 3312.8 lumens
Efficiency: N/A
Efficacy: 169.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1.5')
IES Classification: Type V - Short
BUG Rating: B1 - U5 - G2

Input Watts (W): 19.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 9.8%%
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

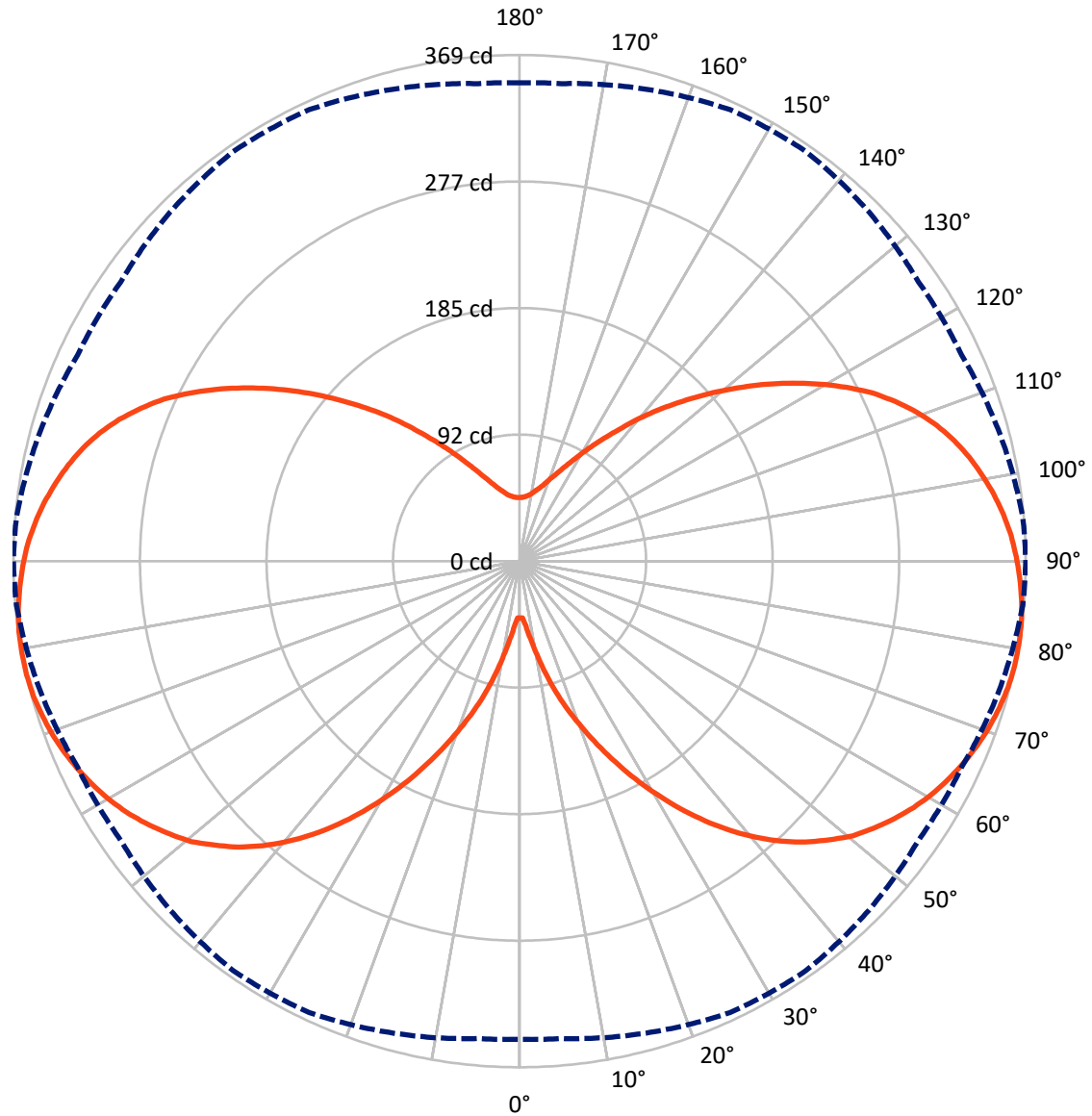
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.6 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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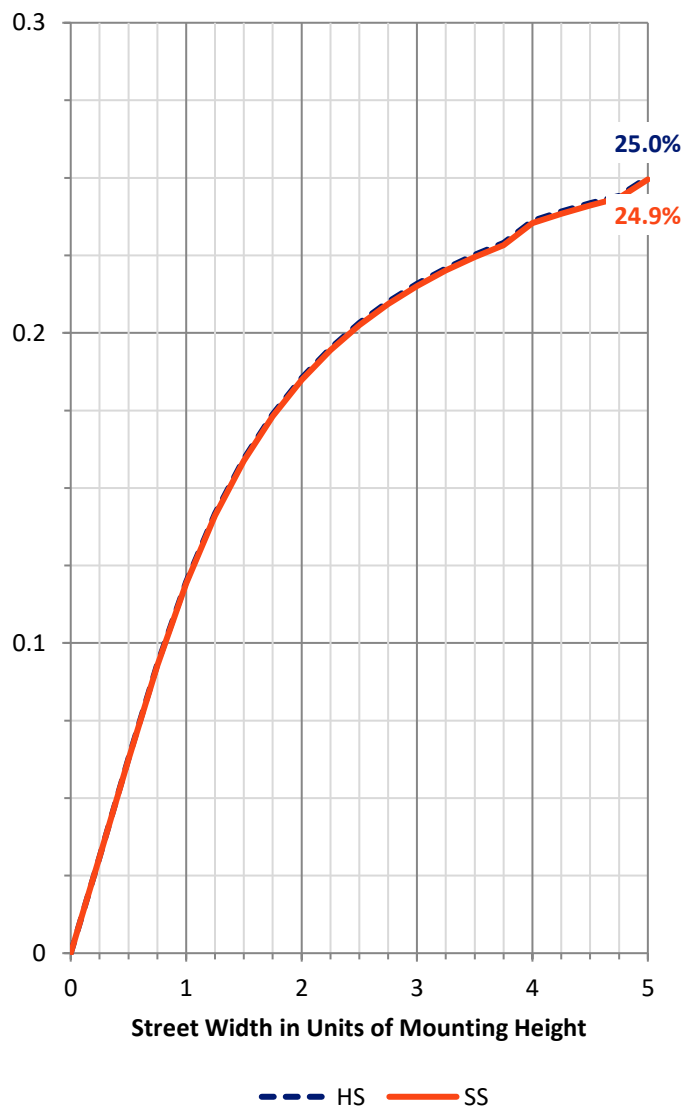
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	942.5	713.9	1656.4
	% Fixture	28.5	21.5	50.0
Street Side	Lumens	942.5	713.9	1656.4
	% Fixture	28.5	21.5	50.0
Total	Lumens	1885.0	1427.7	3312.8
	% Fixture	56.9	43.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.2
10°-20°	28.9	0.9
20°-30°	76.0	2.3
30°-40°	145.3	4.4
40°-50°	223.4	6.7
50°-60°	292.6	8.8
60°-70°	345.4	10.4
70°-80°	378.9	11.4
80°-90°	389.3	11.8
90°-100°	375.0	11.3
100°-110°	336.3	10.2
110°-120°	273.3	8.2
120°-130°	195.3	5.9
130°-140°	123.5	3.7
140°-150°	69.2	2.1
150°-160°	34.8	1.1
160°-170°	15.8	0.5
170°-180°	4.6	0.1
0°-90°	1885.0	56.9
0°-180°	3312.8	100.0

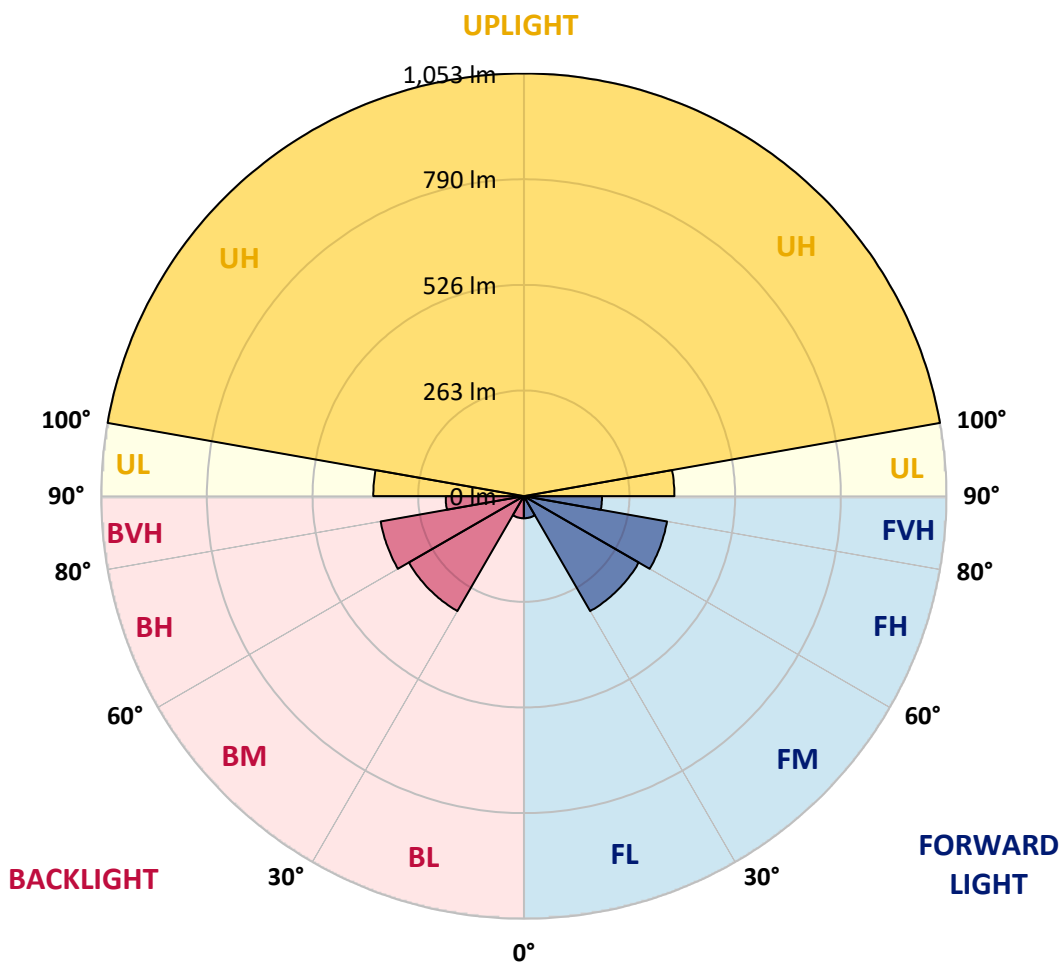


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	55.1	1.7			
FM (30°-60°)	330.7	10.0			
FH (60°-80°)	362.1	10.9			G0/660
FVH (80°-90°)	194.6	5.9			G2/225
BL (0°-30°)	55.1	1.7	B0/110		
BM (30°-60°)	330.7	10.0	B1/1000		
BH (60°-80°)	362.1	10.9	B1/500		G0/660
BVH (80°-90°)	194.6	5.9			G2/225
UL (90°-100°)	375.0	11.3		U3/500	
UH (100°-180°)	1052.7	31.8		U5	

BUG Rating: B1-U5-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
2.5°	43.6	43.6	43.4	43.0	42.8	42.6	42.2	41.6	41.4	41.4	41.4
5°	47.5	47.7	47.7	47.5	47.7	47.3	47.3	46.9	47.1	47.1	47.3
7.5°	57.1	57.1	57.3	57.3	57.5	57.1	57.3	57.1	57.3	57.3	57.1
10°	69.5	69.5	69.9	69.5	69.7	69.3	69.1	69.1	69.7	69.5	69.3
12.5°	83.6	84.0	83.8	83.6	84.0	83.6	83.2	83.4	84.2	83.8	83.6
15°	98.5	98.9	99.3	98.7	98.9	98.7	98.5	98.7	99.5	99.1	98.9
17.5°	113.6	113.8	114.2	113.3	113.6	113.8	113.6	113.8	114.4	114.2	114.0
20°	128.6	129.0	129.5	128.6	128.8	129.0	128.8	129.0	129.9	129.5	129.2
22.5°	144.5	144.7	145.6	144.5	144.9	145.2	144.7	145.2	146.0	145.6	145.4
25°	161.1	160.8	162.1	161.3	161.5	161.9	161.5	161.9	162.9	162.9	162.3
27.5°	178.0	178.0	179.0	178.4	178.8	178.6	179.0	179.4	180.4	180.6	180.0
30°	194.9	194.9	196.5	195.5	196.1	196.3	196.3	196.7	198.0	198.4	197.5
32.5°	211.8	211.8	212.6	212.8	213.2	213.4	213.9	213.9	215.5	215.7	215.3
35°	228.3	228.3	229.1	229.5	230.6	230.2	230.8	230.8	232.6	232.8	232.6
37.5°	244.0	244.2	245.2	245.7	246.5	246.5	246.9	247.3	248.9	249.5	249.3
40°	258.9	259.3	260.1	260.9	261.8	261.8	262.0	262.6	264.4	265.0	264.8
42.5°	272.4	272.6	273.8	275.0	275.8	275.8	276.0	276.4	278.5	279.3	279.3
45°	284.2	284.8	286.4	288.1	288.9	288.7	288.7	289.3	291.5	292.5	292.5
47.5°	295.2	296.0	297.8	299.5	300.3	300.3	300.1	300.7	303.1	304.4	303.8
50°	305.0	305.6	307.6	310.1	310.7	310.7	310.1	310.7	313.3	315.0	315.0
52.5°	313.1	313.7	316.2	318.8	319.7	319.5	318.6	319.2	321.9	323.7	323.5
55°	320.1	320.9	323.5	326.8	327.6	327.0	326.0	326.6	329.4	331.9	331.7
57.5°	326.4	327.0	330.1	333.5	334.7	333.7	332.3	332.9	336.2	338.8	339.0
60°	331.7	332.3	335.8	339.8	340.9	339.6	337.8	338.4	342.1	345.1	345.5
62.5°	336.2	336.8	340.7	345.1	346.6	344.7	342.5	343.1	347.2	350.6	350.8
65°	339.8	340.5	344.9	349.6	351.1	349.0	346.4	347.0	351.5	355.3	355.7
67.5°	342.7	343.5	348.6	353.7	354.9	352.5	349.4	350.0	354.9	359.4	359.8
70°	345.1	346.2	351.5	357.0	358.4	355.5	351.9	352.7	358.2	362.7	363.3
72.5°	347.0	348.0	353.7	359.6	361.2	357.8	353.7	354.5	360.4	365.3	365.9
75°	348.2	349.2	355.3	361.7	363.1	359.4	354.9	355.7	361.9	367.2	368.0
77.5°	348.8	349.8	356.4	362.9	364.3	360.0	355.3	356.1	362.5	368.2	369.0
80°	348.8	349.6	356.4	363.3	364.5	360.2	355.1	355.7	362.3	368.4	369.2
82.5°	348.2	349.0	355.9	362.9	364.1	359.4	354.1	354.9	361.7	367.8	368.8
85°	346.8	347.6	354.5	361.7	362.9	357.8	352.3	353.1	359.8	366.3	367.4
87.5°	344.7	345.8	352.5	359.6	360.6	355.3	350.0	350.4	357.6	364.3	365.1
90°	342.3	343.3	349.6	356.8	357.8	352.5	347.0	347.6	354.5	361.4	362.3
92.5°	339.4	340.2	346.4	352.9	354.1	348.6	343.3	344.1	351.1	358.0	359.0
95°	335.8	336.4	342.1	348.2	349.2	344.3	339.0	339.8	346.8	353.5	354.5
97.5°	331.3	331.7	336.8	342.3	343.5	338.8	333.9	334.7	341.5	348.2	349.4
100°	326.2	326.4	330.9	335.6	336.6	332.7	328.2	329.2	335.6	342.5	343.3
102.5°	320.3	320.3	323.9	327.8	329.0	325.8	321.9	322.9	329.0	335.6	336.6
105°	313.7	313.1	315.8	318.8	320.3	317.8	315.0	315.8	321.5	327.8	329.0
107.5°	305.6	305.0	306.8	309.5	310.9	309.1	306.8	308.0	312.9	318.8	320.1
110°	296.4	295.6	296.4	298.5	300.1	298.9	297.6	298.7	303.3	308.9	309.7



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 CATALOG NUMBER: FFX-CLB-20-730-U-FG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	285.8	284.8	285.0	286.4	287.9	287.7	286.8	288.5	292.3	296.8	297.8
115°	273.6	272.6	272.0	272.8	274.0	274.8	275.6	276.6	279.7	283.4	285.0
117.5°	260.7	259.1	258.1	258.1	259.5	260.9	262.4	263.8	265.8	269.3	269.9
120°	245.9	244.8	243.4	243.4	244.6	246.1	248.3	249.9	251.2	253.6	254.4
122.5°	231.2	229.8	228.3	228.3	229.1	231.2	234.2	235.7	236.3	237.7	238.3
125°	216.3	214.7	213.0	213.0	213.9	215.9	219.4	220.6	221.0	221.6	222.2
127.5°	201.2	199.6	198.2	197.5	198.8	200.4	203.9	205.5	205.7	205.7	206.1
130°	186.1	184.9	183.5	182.9	184.1	185.5	189.4	191.0	190.2	190.2	190.4
132.5°	171.9	170.6	169.2	168.8	169.6	171.4	174.9	176.3	175.7	174.9	175.1
135°	158.0	157.0	155.1	154.9	156.2	157.0	160.2	161.7	161.1	160.2	160.4
137.5°	144.7	143.7	142.1	141.9	143.1	144.1	146.6	148.0	147.2	146.4	146.6
140°	132.1	130.9	129.7	129.5	130.3	131.3	133.5	134.3	133.5	132.9	133.1
142.5°	120.3	119.5	118.0	118.0	118.4	119.3	121.1	121.9	121.1	120.3	119.9
145°	109.1	108.0	107.2	107.0	107.4	108.3	109.5	110.3	109.5	108.9	108.5
147.5°	99.1	98.3	97.4	97.4	97.7	98.3	99.3	99.5	98.9	98.5	98.1
150°	89.9	89.1	88.7	88.5	88.7	88.9	89.7	90.1	89.5	89.1	88.7
152.5°	81.5	80.9	80.5	80.7	80.7	80.9	81.1	81.3	80.7	80.7	80.3
155°	74.2	73.8	73.4	73.6	73.6	73.6	73.8	73.8	73.4	73.4	73.2
157.5°	68.1	67.7	67.5	67.7	67.7	67.5	67.7	67.7	67.3	67.3	67.1
160°	62.8	62.4	62.4	62.4	62.4	62.2	62.6	62.4	62.2	62.0	62.0
162.5°	58.5	58.1	58.1	58.3	58.1	58.1	58.1	58.1	57.9	57.9	57.7
165°	55.0	54.6	54.6	54.8	54.6	54.6	54.6	54.6	54.4	54.4	54.4
167.5°	52.2	52.0	52.0	52.0	52.0	51.8	52.0	52.0	51.8	51.8	51.8
170°	49.9	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.5	49.5
172.5°	48.5	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.1	48.1	48.1
175°	47.5	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.1	47.1
177.5°	46.9	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.5	46.5
180°	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5

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: SP1-2406-133-4

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5.

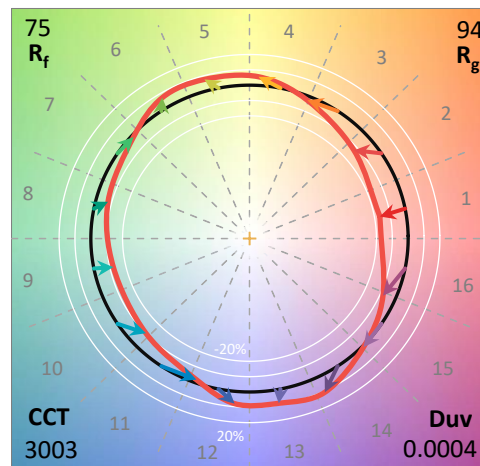
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-4
 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-100-730-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3003
 CIE u': 0.2503
 CIE v': 0.5219
 Duv: 0.0004
 CIE x: 0.4373
 CIE y: 0.4053
 CIE z: 0.1573
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 52.93545
 Rf: 75.2
 Rg: 93.8

CRI (Ra): 71.9
 R1: 68.2
 R2: 82.2
 R3: 93.9
 R4: 67.6
 R5: 67.2
 R6: 75.3
 R7: 77.6
 R8: 43.1
 R9: -33.7
 R10: 59.0
 R11: 62.4
 R12: 48.5
 R13: 70.8
 R14: 96.6
 R15: 60.0



Test Conditions

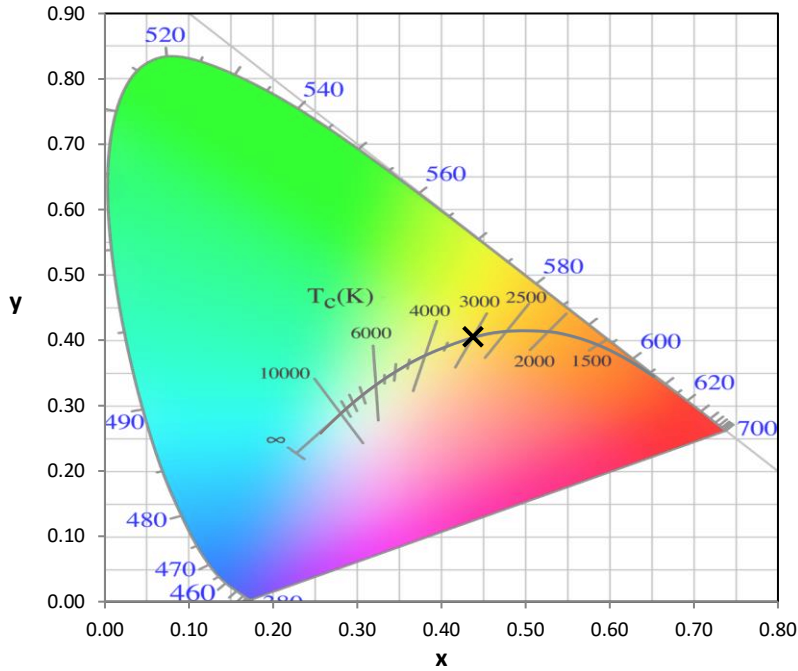
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

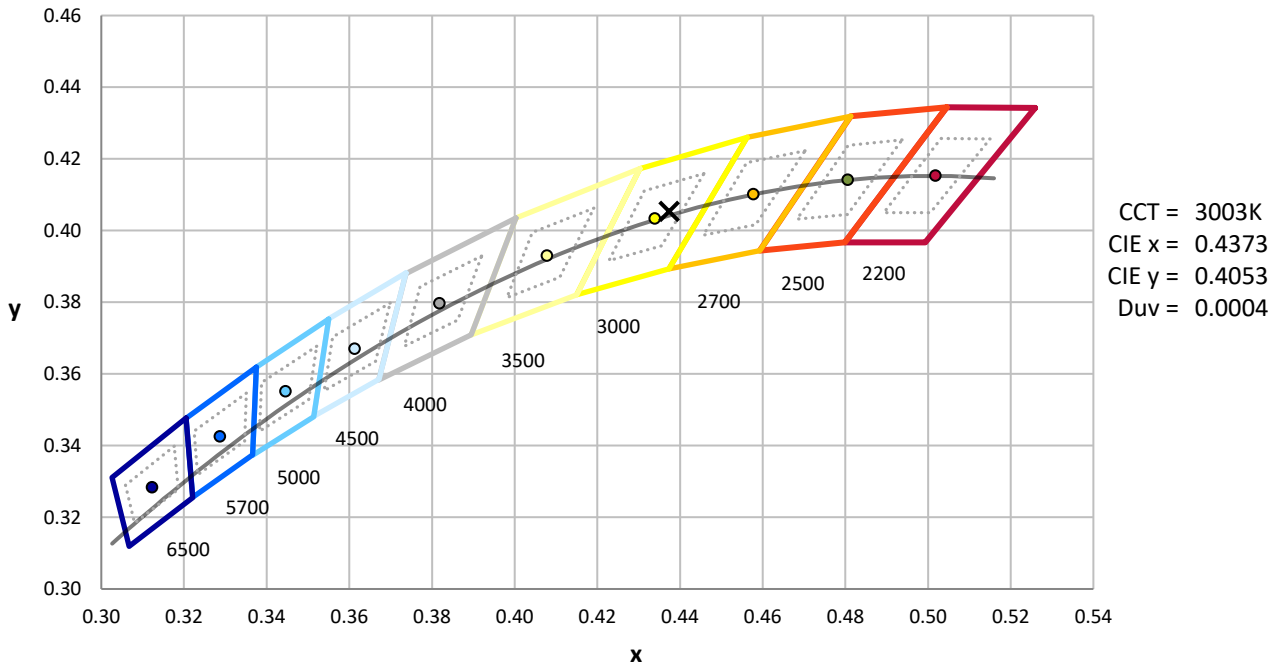
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



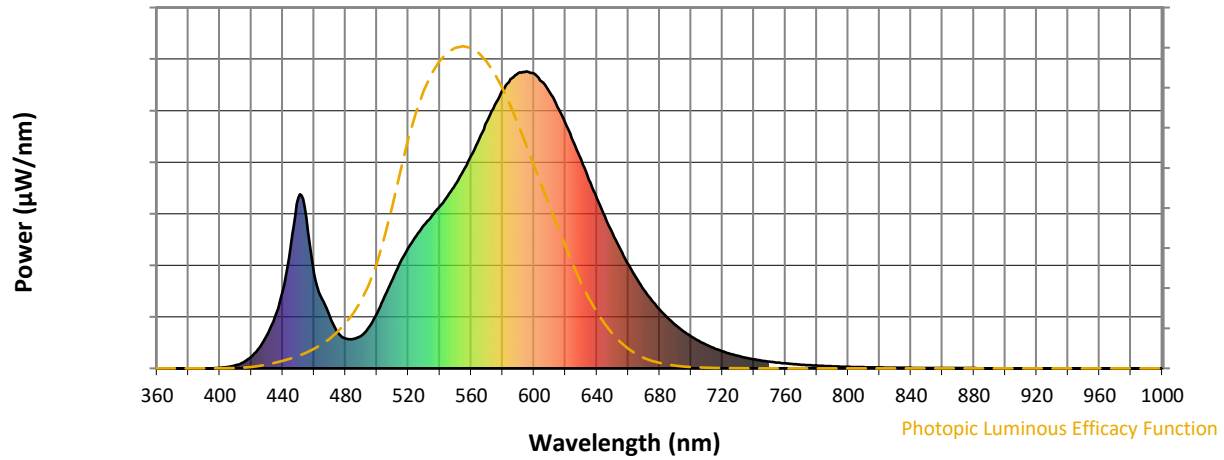
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

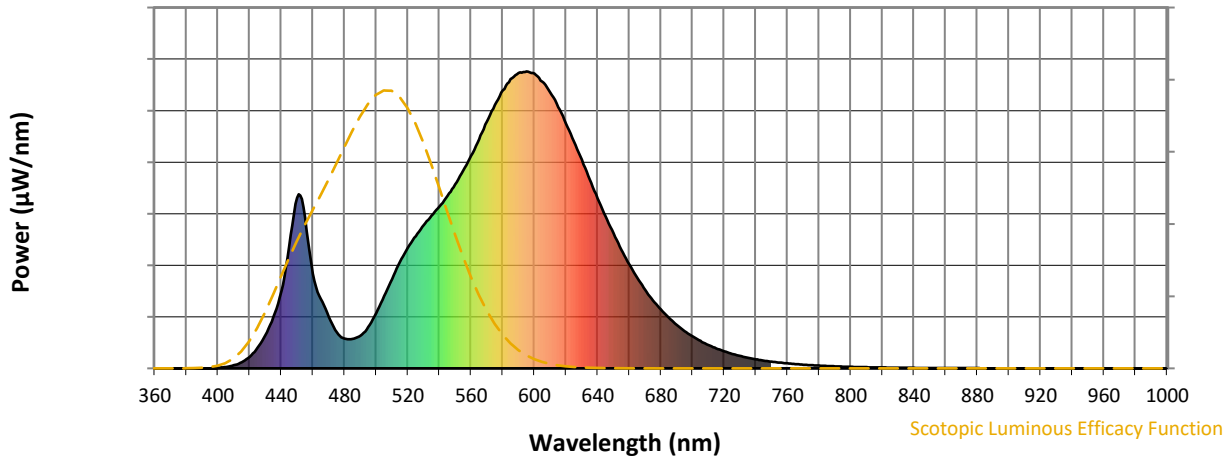


Photopic Lumens: NR

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



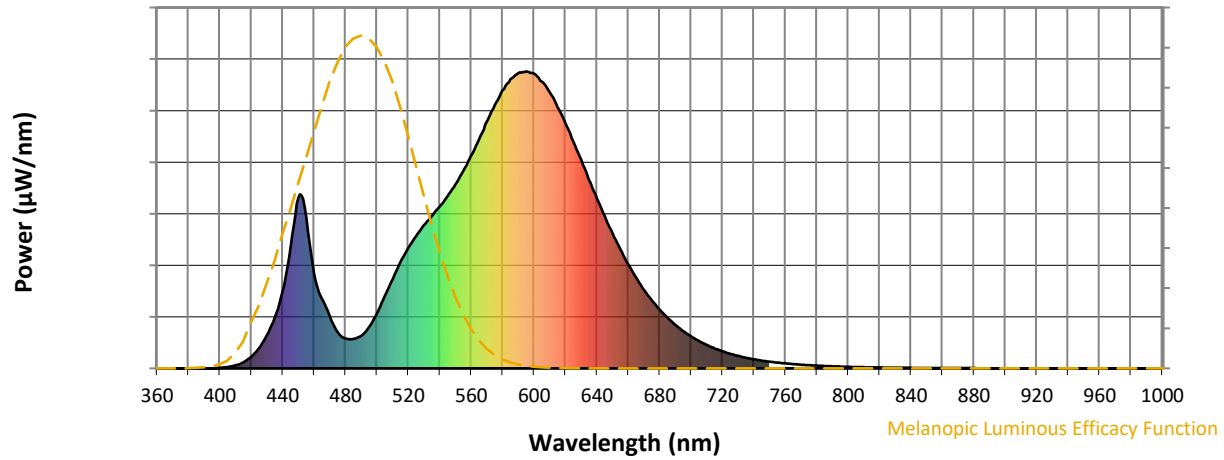
Scotopic Lumens: NR

S/P: 1.21

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

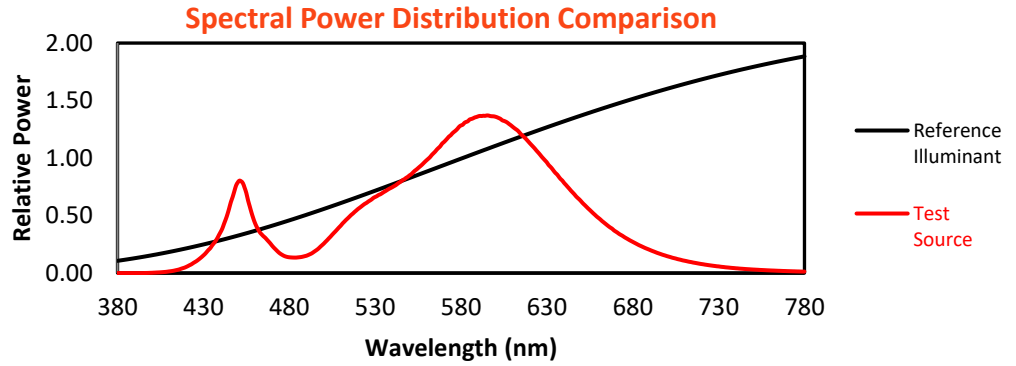
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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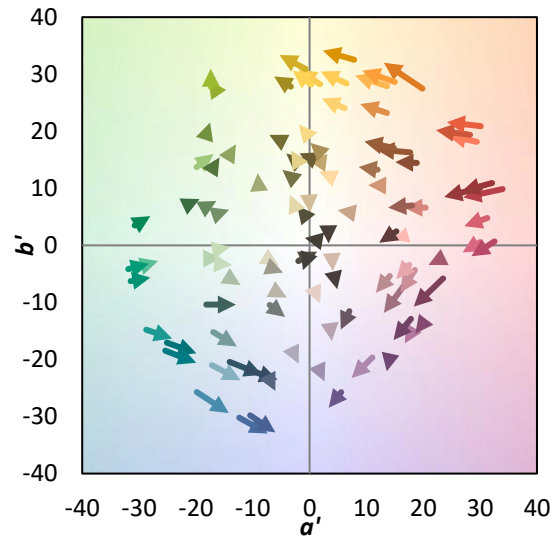
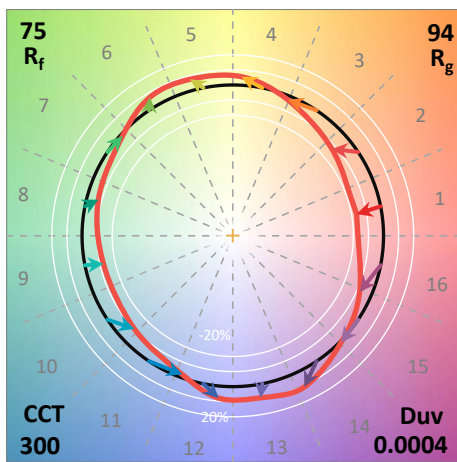
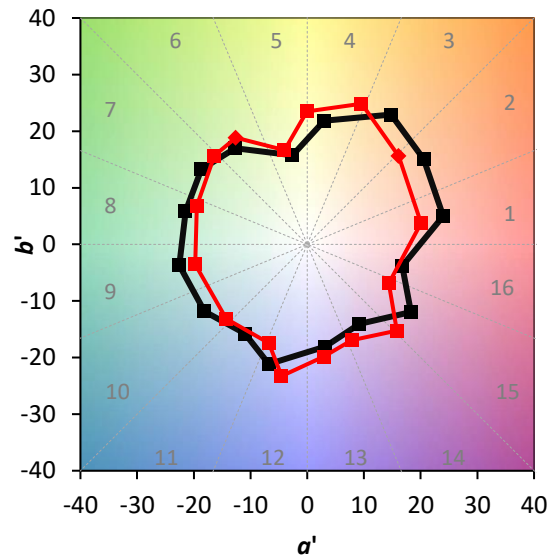
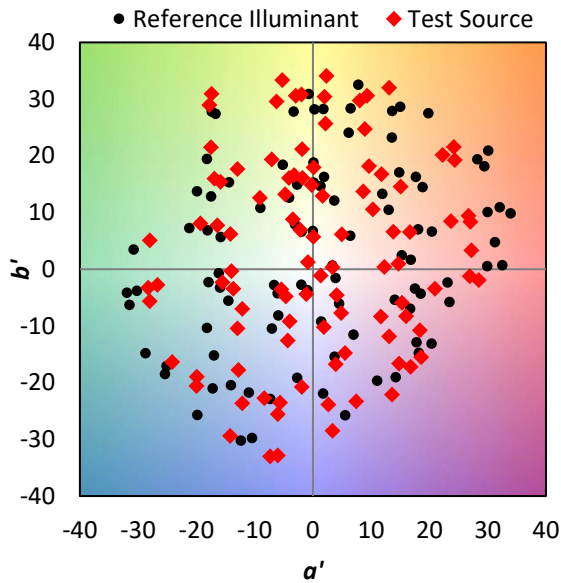
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Summary

$R_f = 75.2$
 $R_g = 93.8$
 CIE $R_a = 71.9$
 $R_g = -33.7$



Color Vector Graphics

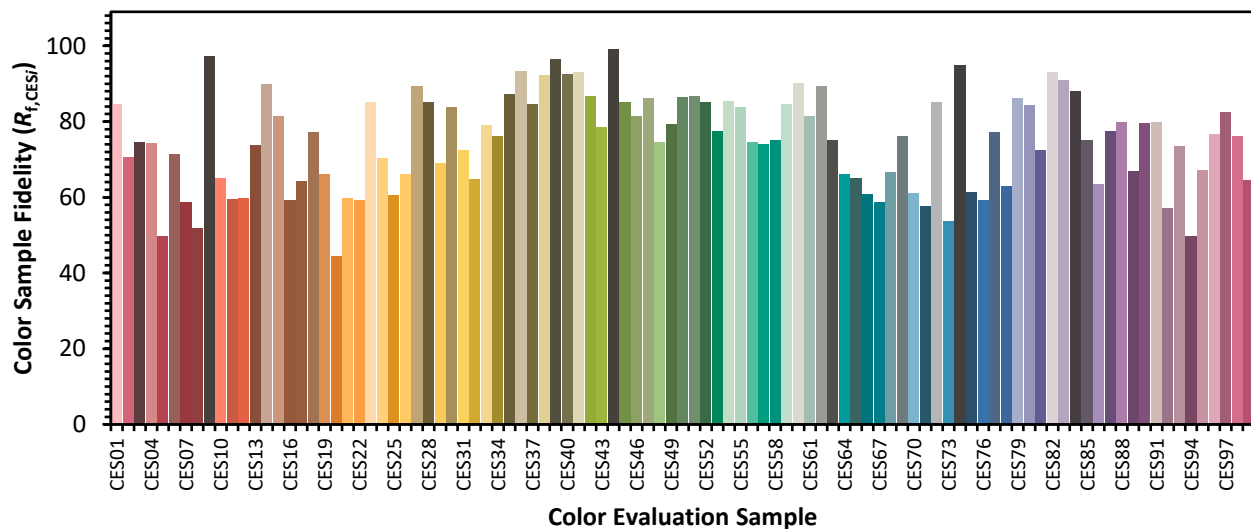


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Individual Sample Fidelity Index ($R_{f,i}$)

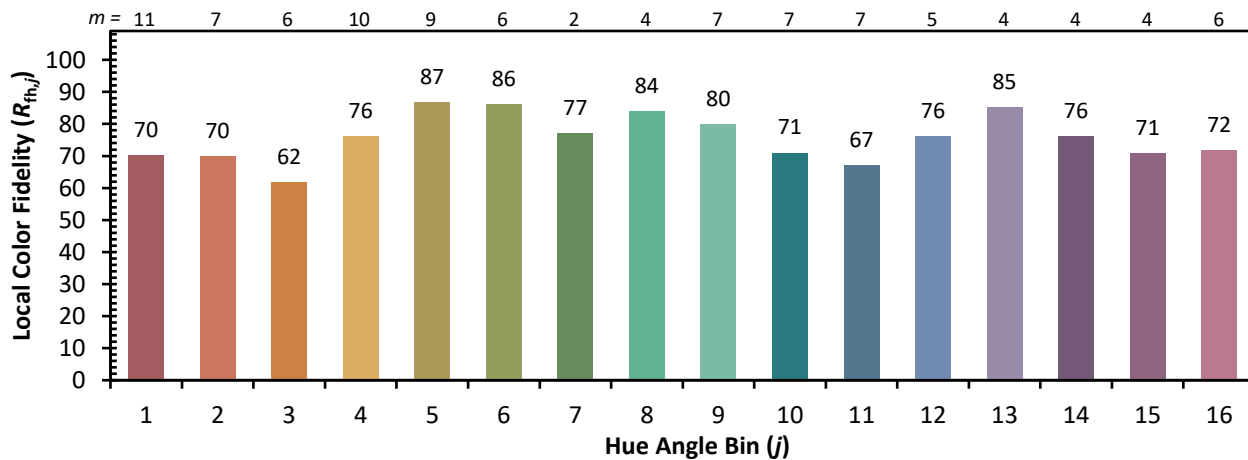
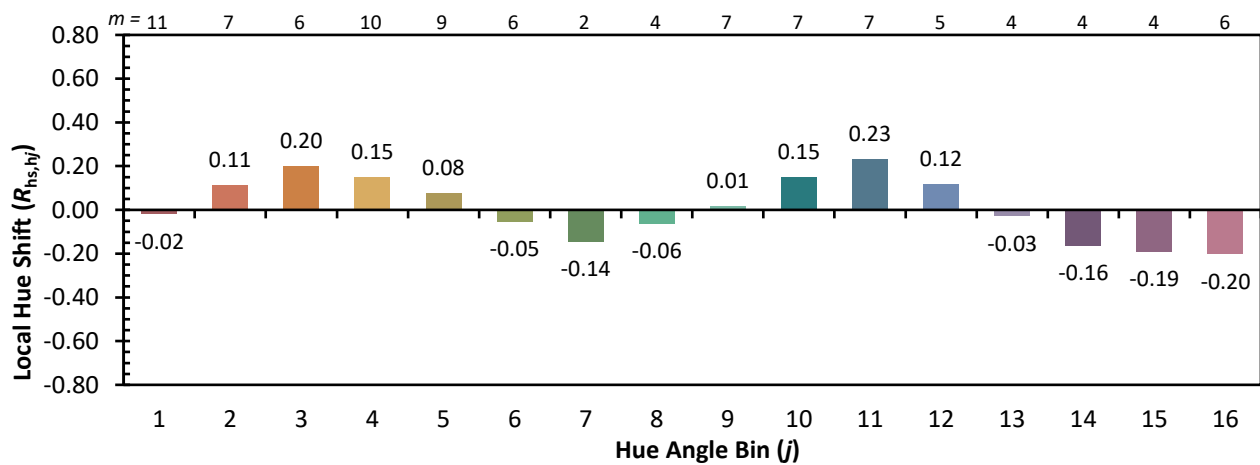
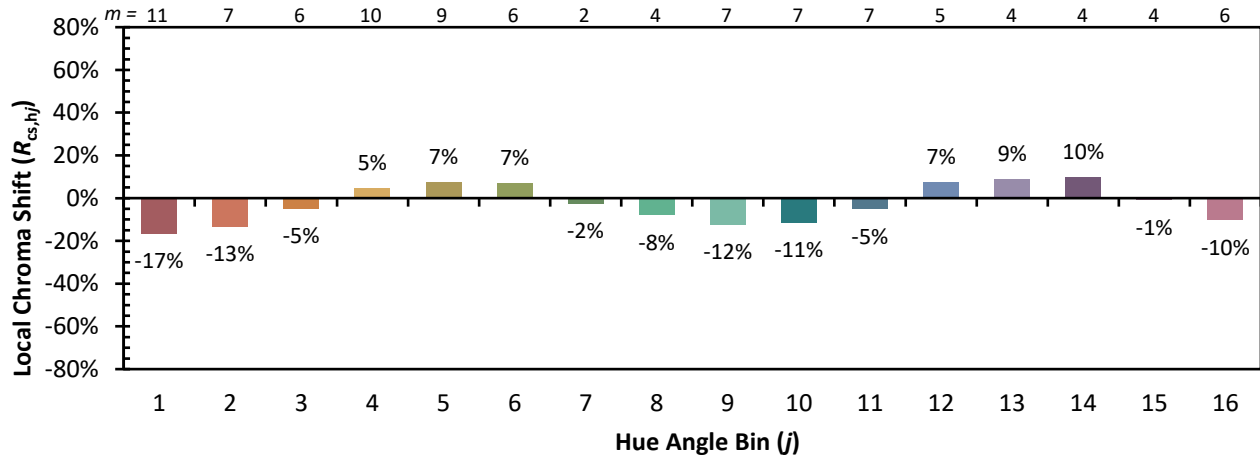
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
CES25 = 73	CES50 = 86	CES75 = 61	



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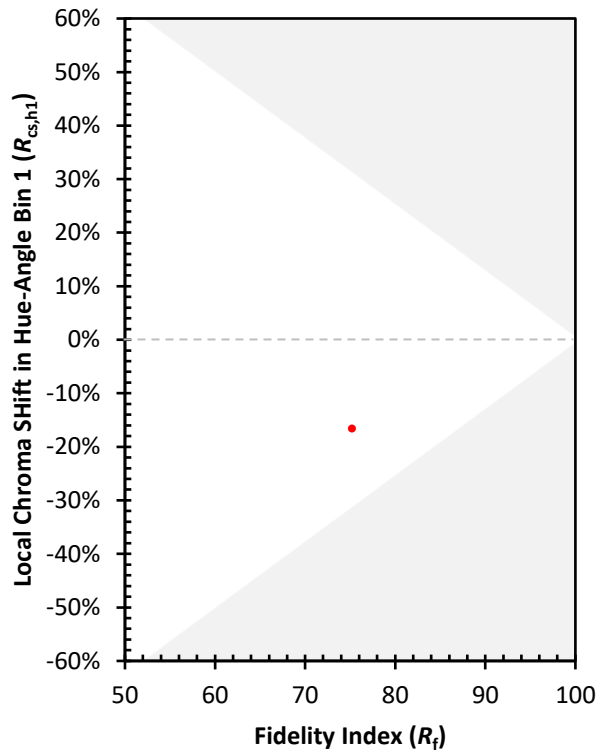
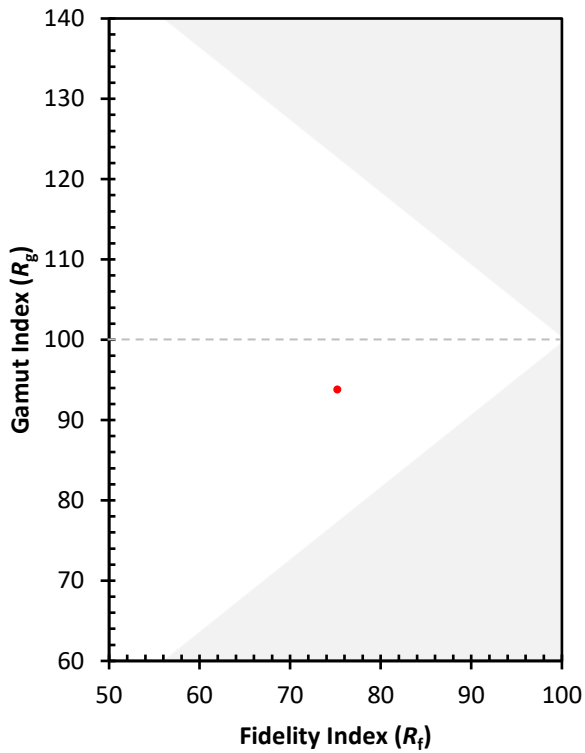
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)