

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: P856167

Luminaire Tested: **FFX-CLB-70-730-U-FR-T5-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856167
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-730-U-FR-T5-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

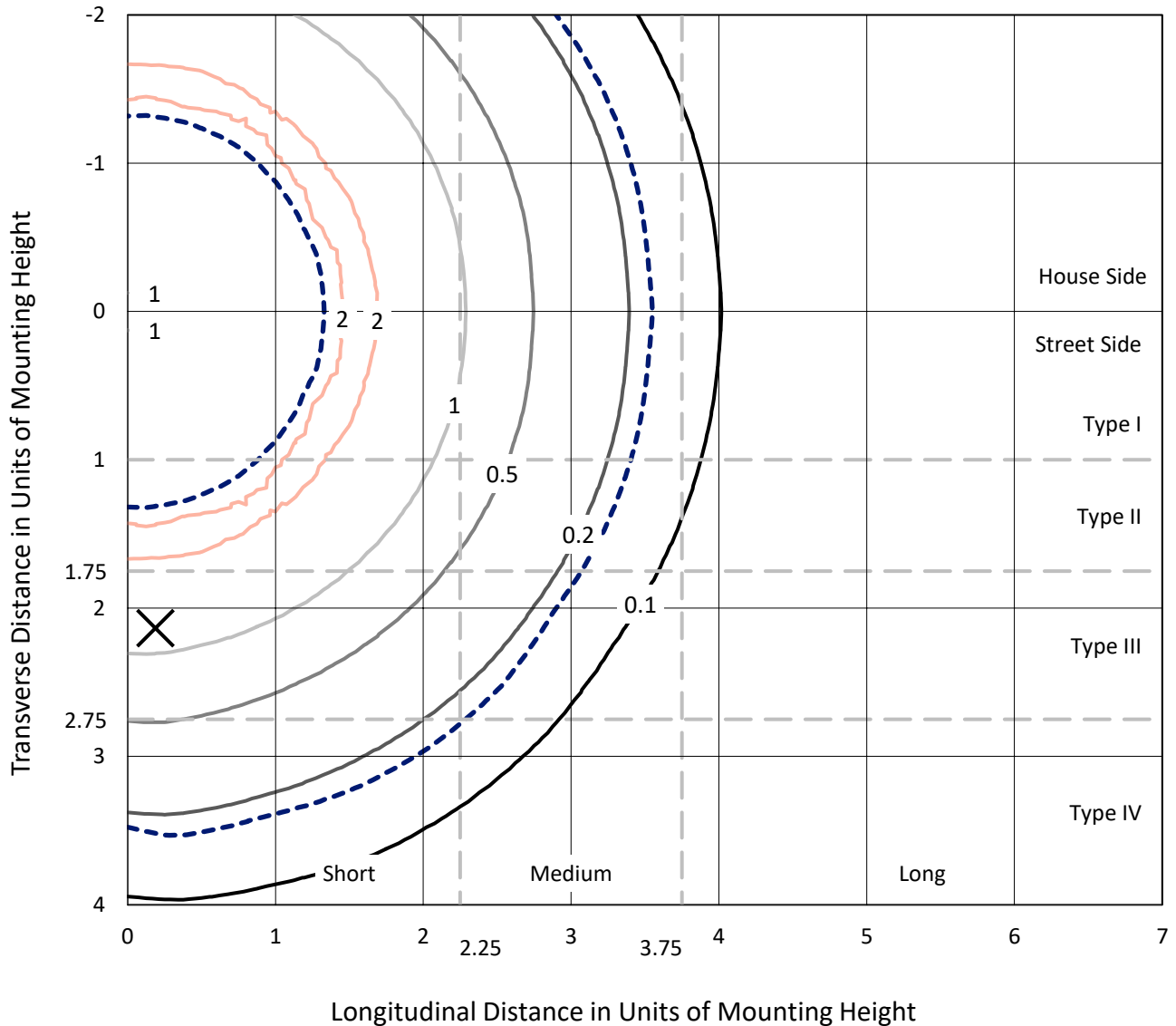
Lumens per Lamp: N/A
Luminaire Lumens: 10907.7 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B4 - U4 - G3

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

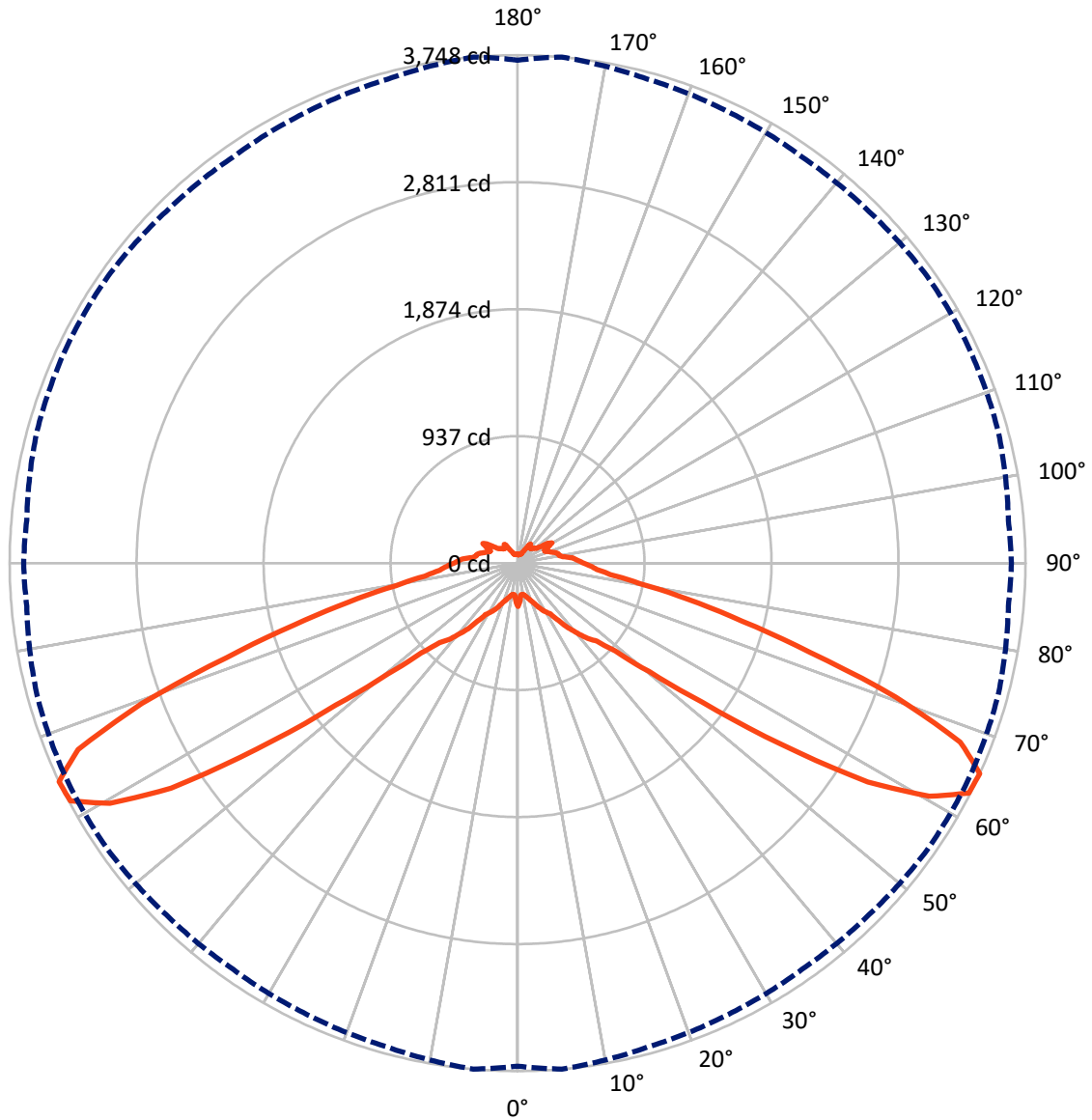
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 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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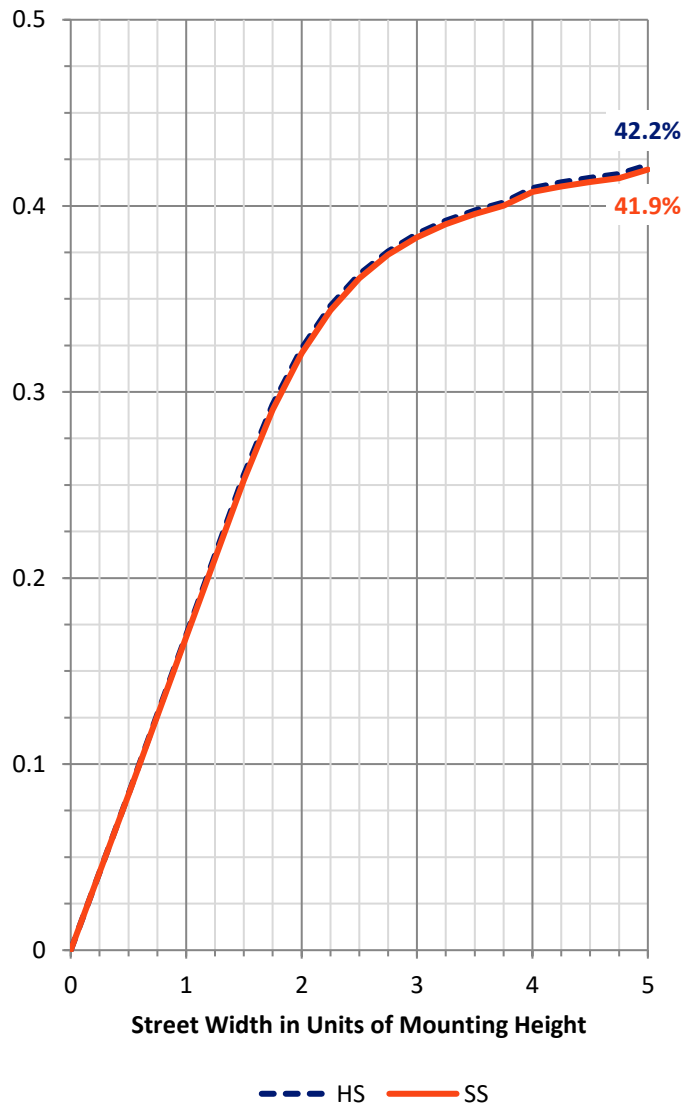
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4764.6	689.2	5453.8
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	4764.6	689.2	5453.8
	% Fixture	43.7	6.3	50.0
Total	Lumens	9529.2	1378.4	10907.7
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	0.2
10°-20°	76.6	0.7
20°-30°	166.0	1.5
30°-40°	336.3	3.1
40°-50°	678.0	6.2
50°-60°	2155.5	19.8
60°-70°	3476.2	31.9
70°-80°	1895.7	17.4
80°-90°	721.8	6.6
90°-100°	433.1	4.0
100°-110°	276.3	2.5
110°-120°	210.1	1.9
120°-130°	177.8	1.6
130°-140°	115.8	1.1
140°-150°	97.1	0.9
150°-160°	43.5	0.4
160°-170°	18.5	0.2
170°-180°	6.2	0.1
0°-90°	9529.2	87.4
0°-180°	10907.7	100.0



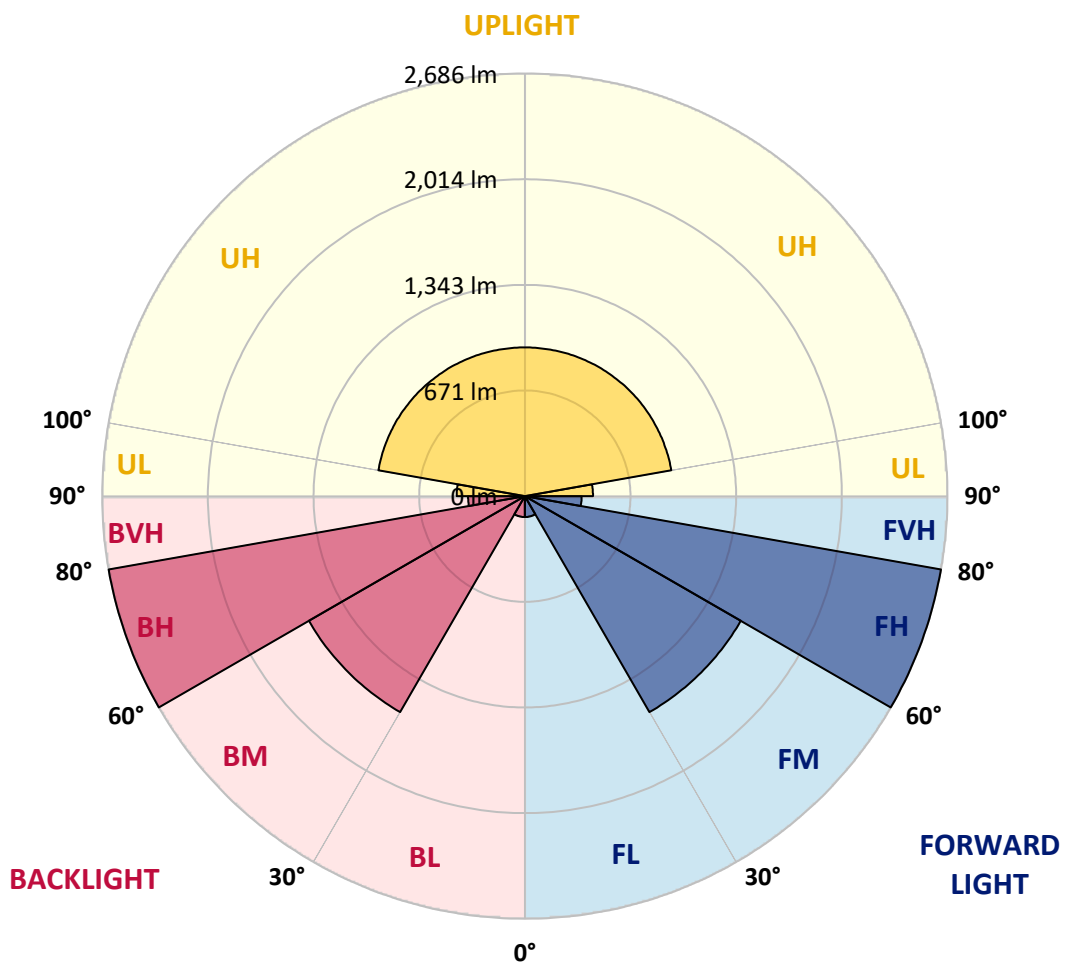
REPORT NUMBER: P856167
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	132.9	1.2			
FM (30°-60°)	1584.9	14.5			
FH (60°-80°)	2685.9	24.6			G2/5000
FVH (80°-90°)	360.9	3.3			G3/500
BL (0°-30°)	132.9	1.2	B1/500		
BM (30°-60°)	1584.9	14.5	B2/2500		
BH (60°-80°)	2685.9	24.6	B4/5000		G2/5000
BVH (80°-90°)	360.9	3.3			G3/500
UL (90°-100°)	433.1	4.0		U3/500	
UH (100°-180°)	945.3	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°	320.1	320.1	320.1	320.1	320.1	320.1	320.1	320.1	320.1	320.1	320.1
2.5°	285.9	290.5	277.9	267.7	263.1	264.3	274.5	284.8	274.5	277.9	277.9
5°	236.9	238.1	238.1	235.8	239.2	232.4	224.4	224.4	232.4	241.5	241.5
7.5°	229.0	232.4	241.5	241.5	244.9	233.5	222.1	223.3	234.7	248.3	251.7
10°	235.8	235.8	233.5	235.8	243.8	242.6	230.1	224.4	232.4	246.1	250.6
12.5°	246.1	246.1	252.9	263.1	264.3	254.0	241.5	240.4	249.5	258.6	258.6
15°	260.9	262.0	265.4	264.3	267.7	264.3	260.9	263.1	268.8	268.8	268.8
17.5°	280.2	280.2	280.2	280.2	280.2	281.4	282.5	282.5	282.5	284.8	284.8
20°	301.9	301.9	300.7	299.6	299.6	300.7	301.9	301.9	301.9	304.1	304.1
22.5°	329.2	328.1	325.8	325.8	325.8	326.9	324.7	323.5	322.4	323.5	323.5
25°	361.1	361.1	358.8	355.4	355.4	354.3	350.9	349.7	348.6	350.9	349.7
27.5°	393.0	393.0	389.6	385.0	385.0	385.0	382.7	380.5	378.2	379.3	379.3
30°	422.6	420.3	419.2	415.8	414.6	415.8	413.5	413.5	408.9	407.8	410.1
32.5°	450.0	447.7	450.0	446.5	443.1	446.5	445.4	445.4	438.6	436.3	438.6
35°	525.1	519.4	524.0	516.0	511.5	512.6	514.9	519.4	512.6	509.2	510.3
37.5°	606.0	604.9	619.7	632.2	629.9	610.6	598.0	600.3	609.4	622.0	622.0
40°	681.2	678.9	682.3	677.8	677.8	675.5	674.4	680.1	661.8	657.3	653.9
42.5°	759.8	758.7	739.3	712.0	706.3	729.0	739.3	747.3	721.1	712.0	705.1
45°	837.3	821.3	817.9	808.8	799.7	814.5	813.3	819.0	806.5	805.4	799.7
47.5°	1000.2	970.5	960.3	961.4	942.1	958.0	964.8	983.1	956.9	958.0	956.9
50°	1294.0	1256.5	1273.5	1262.2	1241.6	1261.0	1259.9	1292.9	1249.6	1265.6	1258.7
52.5°	1753.1	1701.9	1712.1	1705.3	1684.8	1724.6	1733.8	1782.7	1699.6	1720.1	1714.4
55°	2417.2	2361.4	2384.2	2302.2	2280.5	2359.1	2388.8	2445.7	2335.2	2346.6	2340.9
57.5°	3050.6	3047.2	3085.9	3027.8	3008.4	3064.3	3036.9	3087.0	3027.8	3070.0	3056.3
60°	3482.3	3491.4	3530.2	3547.2	3513.1	3542.7	3476.6	3514.2	3496.0	3557.5	3551.8
62.5°	3706.7	3736.3	3713.6	3714.7	3677.1	3699.9	3687.4	3709.0	3704.4	3710.1	3704.4
65°	3711.3	3747.7	3697.6	3674.8	3658.9	3668.0	3689.6	3689.6	3676.0	3635.0	3644.1
67.5°	3468.6	3523.3	3467.5	3435.6	3444.7	3441.3	3456.1	3436.7	3428.8	3368.4	3369.5
70°	2871.7	2959.5	2877.4	2847.8	2871.7	2886.6	2885.4	2869.5	2856.9	2781.8	2803.4
72.5°	2180.3	2257.8	2184.8	2173.5	2196.2	2219.0	2199.7	2219.0	2198.5	2164.3	2174.6
75°	1646.0	1712.1	1712.1	1755.4	1762.2	1749.7	1696.2	1717.8	1731.5	1732.6	1742.9
77.5°	1210.9	1280.4	1316.8	1387.5	1384.0	1362.4	1297.5	1322.5	1348.7	1367.0	1379.5
80°	861.2	913.6	967.1	1017.2	1024.1	1005.9	966.0	980.8	996.7	1009.3	1016.1
82.5°	667.5	691.5	681.2	675.5	684.6	710.8	719.9	729.0	706.3	691.5	697.1
85°	582.1	584.4	602.6	615.1	618.5	618.5	609.4	616.3	622.0	636.8	636.8
87.5°	530.8	533.1	578.7	591.2	595.8	590.1	578.7	583.2	587.8	596.9	596.9
90°	471.6	478.4	524.0	534.3	538.8	529.7	526.3	529.7	524.0	527.4	527.4
92.5°	438.6	438.6	460.2	455.7	454.5	455.7	456.8	460.2	454.5	452.2	452.2
95°	401.0	406.7	401.0	405.5	404.4	398.7	396.4	398.7	395.3	395.3	397.6
97.5°	336.0	337.2	326.9	330.3	330.3	325.8	320.1	322.4	319.0	321.2	322.4
100°	314.4	311.0	293.9	291.6	290.5	287.1	283.6	283.6	282.5	281.4	282.5
102.5°	307.6	307.6	284.8	280.2	277.9	272.3	267.7	267.7	267.7	267.7	268.8
105°	281.4	289.3	272.3	268.8	265.4	258.6	251.7	250.6	252.9	250.6	254.0
107.5°	255.2	262.0	252.9	252.9	249.5	242.6	238.1	236.9	238.1	235.8	238.1
110°	240.4	243.8	233.5	233.5	231.2	225.5	224.4	223.3	223.3	219.9	222.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	222.1	222.1	214.2	211.9	211.9	208.5	207.3	206.2	206.2	206.2	207.3
115°	221.0	219.9	207.3	199.3	198.2	197.1	198.2	197.1	197.1	195.9	195.9
117.5°	270.0	258.6	216.4	197.1	197.1	198.2	202.8	199.3	191.4	191.4	190.2
120°	291.6	293.9	249.5	229.0	224.4	218.7	217.6	215.3	207.3	206.2	210.7
122.5°	257.4	268.8	241.5	233.5	229.0	222.1	217.6	216.4	216.4	210.7	218.7
125°	200.5	210.7	197.1	195.9	194.8	195.9	193.7	193.7	195.9	192.5	193.7
127.5°	172.0	176.6	170.9	170.9	169.7	168.6	166.3	167.5	166.3	167.5	168.6
130°	165.2	168.6	162.9	160.6	160.6	161.8	161.8	161.8	158.3	156.1	157.2
132.5°	164.0	162.9	153.8	149.2	149.2	157.2	160.6	160.6	152.6	146.9	146.9
135°	148.1	149.2	148.1	142.4	143.5	145.8	149.2	150.4	142.4	139.0	140.1
137.5°	142.4	145.8	146.9	144.7	144.7	142.4	141.3	142.4	140.1	141.3	141.3
140°	142.4	143.5	146.9	149.2	146.9	144.7	144.7	144.7	145.8	149.2	151.5
142.5°	145.8	146.9	145.8	144.7	148.1	153.8	158.3	158.3	154.9	152.6	153.8
145°	167.5	170.9	170.9	167.5	169.7	167.5	167.5	165.2	165.2	165.2	166.3
147.5°	159.5	158.3	160.6	164.0	160.6	159.5	159.5	160.6	162.9	164.0	165.2
150°	125.3	121.9	124.2	131.0	129.9	129.9	129.9	131.0	132.1	132.1	133.3
152.5°	99.1	99.1	101.4	101.4	102.5	102.5	101.4	101.4	101.4	102.5	102.5
155°	88.9	87.7	90.0	93.4	91.1	91.1	91.1	91.1	91.1	91.1	92.3
157.5°	77.5	76.3	76.3	77.5	77.5	77.5	77.5	78.6	78.6	77.5	78.6
160°	70.6	70.6	69.5	69.5	69.5	70.6	71.8	71.8	70.6	69.5	69.5
162.5°	67.2	67.2	64.9	63.8	63.8	64.9	67.2	67.2	64.9	63.8	63.8
165°	67.2	66.1	62.7	60.4	60.4	62.7	66.1	66.1	62.7	60.4	60.4
167.5°	66.1	66.1	63.8	61.5	61.5	63.8	64.9	66.1	64.9	62.7	61.5
170°	63.8	63.8	64.9	64.9	63.8	63.8	63.8	63.8	64.9	64.9	64.9
172.5°	66.1	64.9	66.1	67.2	67.2	66.1	64.9	64.9	66.1	67.2	67.2
175°	67.2	67.2	66.1	66.1	66.1	64.9	64.9	64.9	66.1	67.2	66.1
177.5°	60.4	60.4	59.2	60.4	60.4	60.4	59.2	60.4	60.4	60.4	61.5
180°	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0

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.

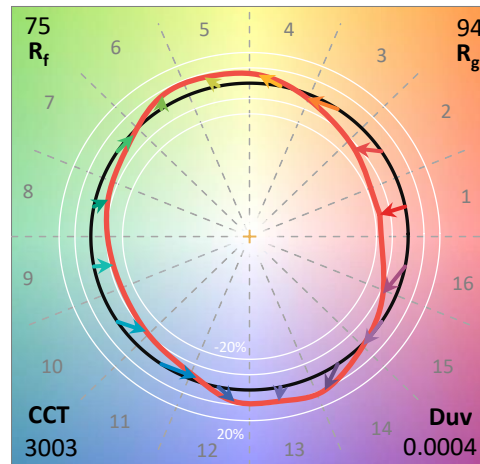
Test Information

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



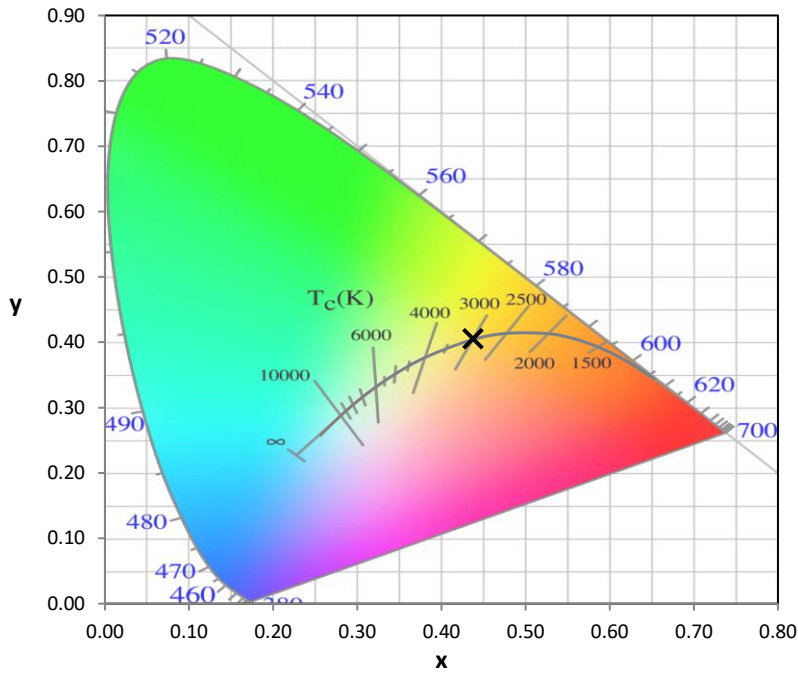
Test Conditions
 Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

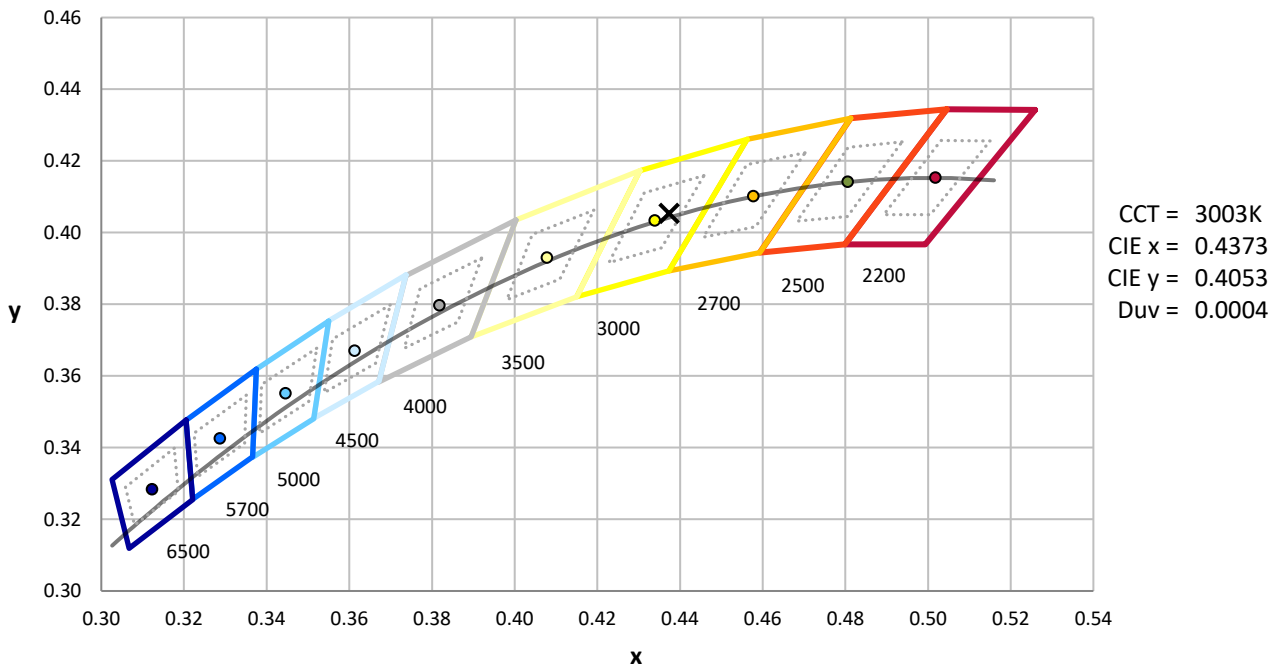
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-4

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

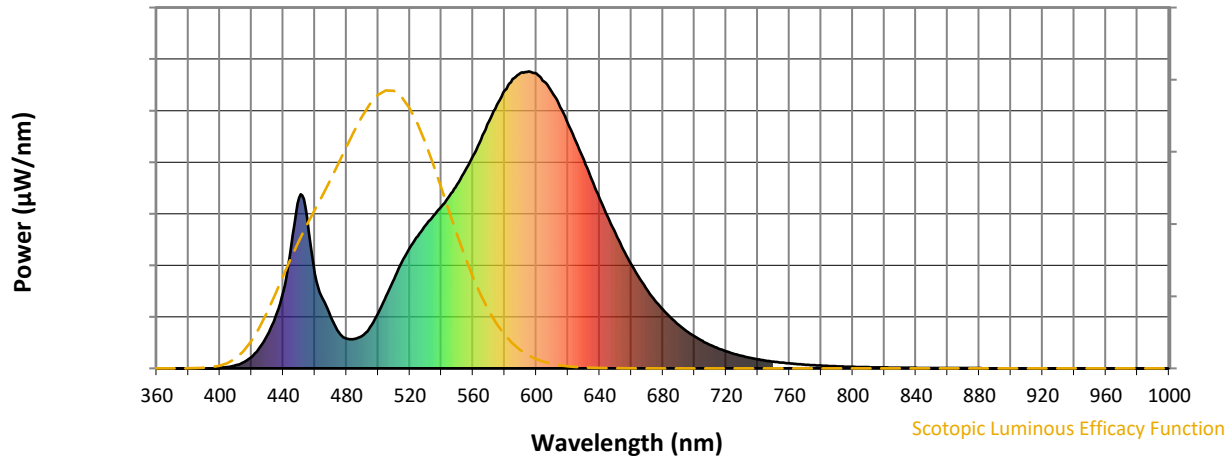


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2406-133-4

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

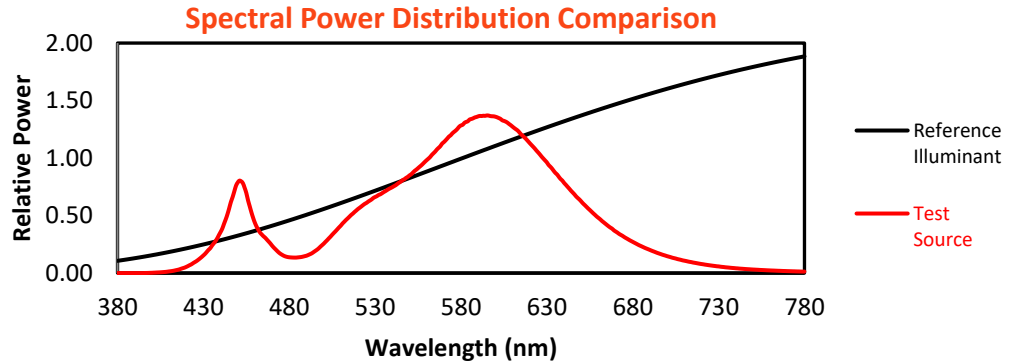
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	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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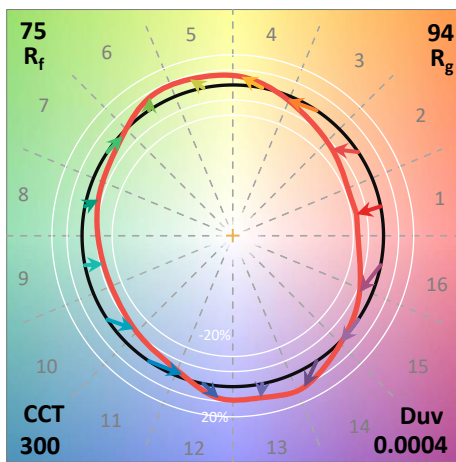
TM-30-18

Summary

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



Color Vector Graphics

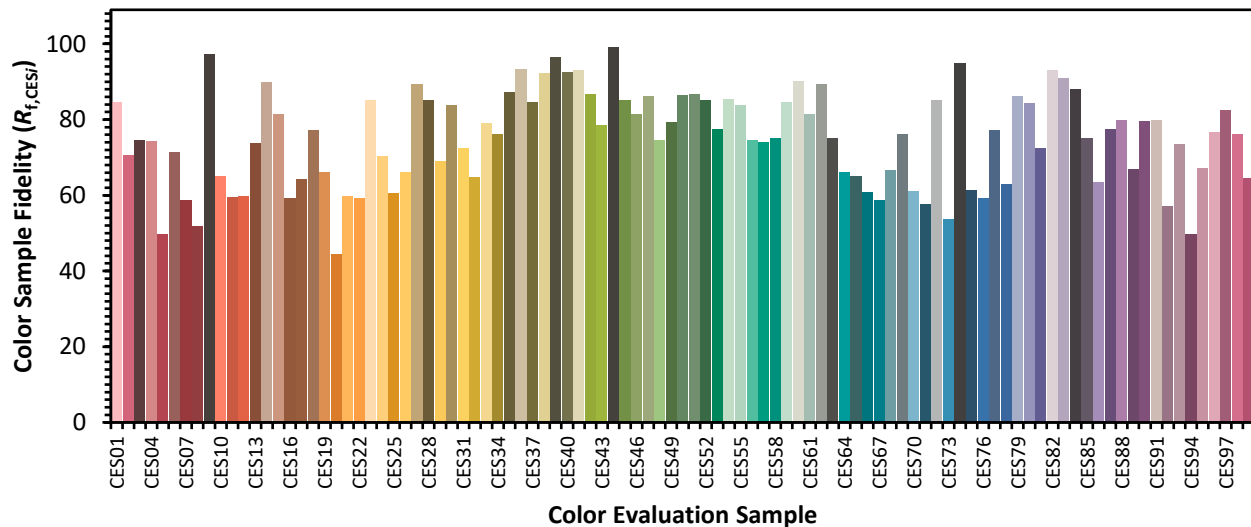


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Individual Sample Fidelity Index ($R_{f,i}$)

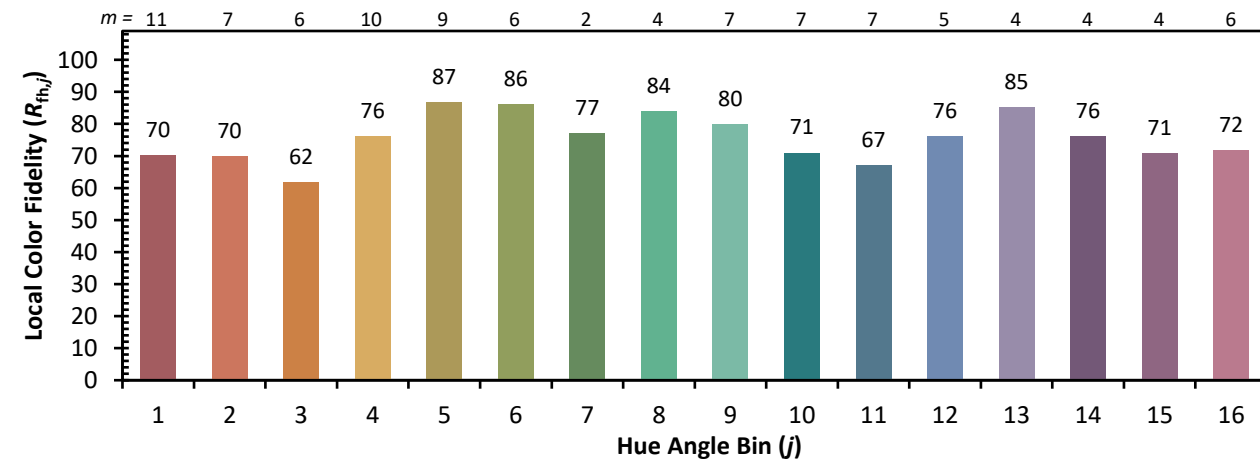
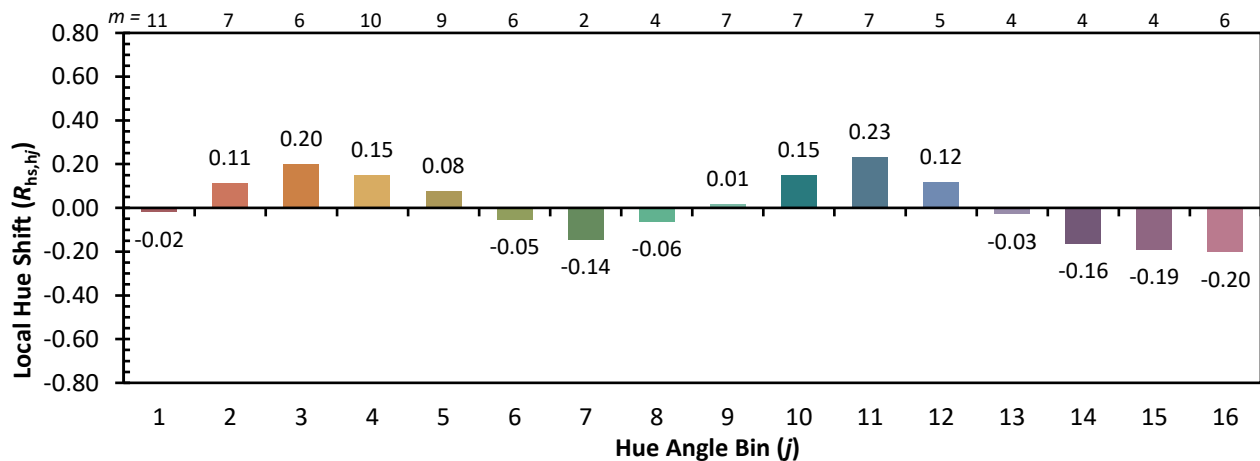
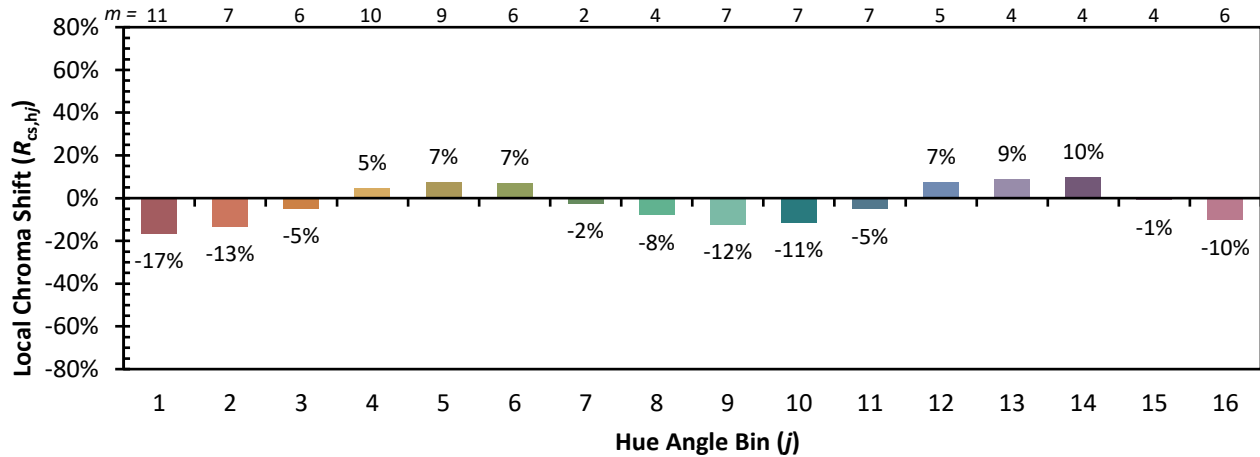
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 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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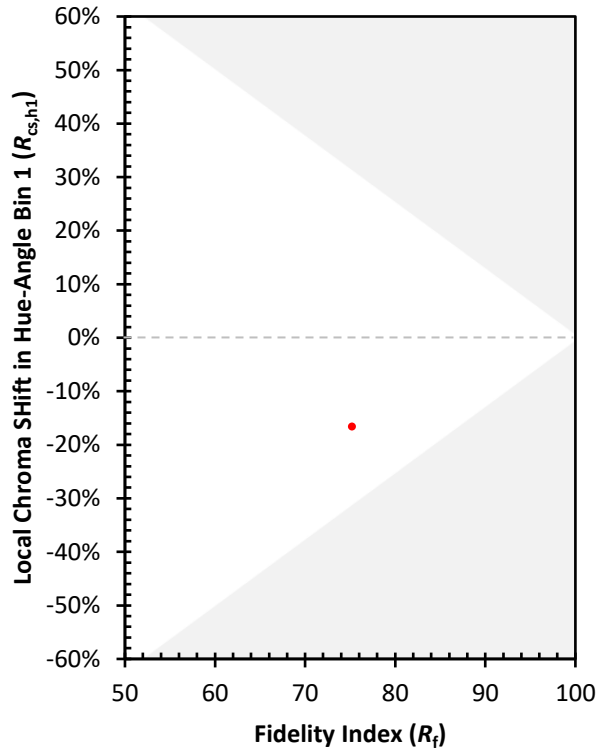
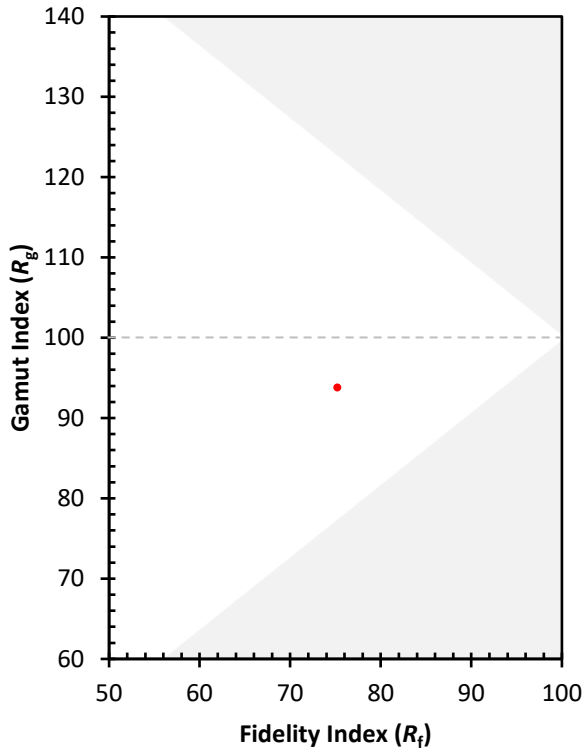
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)