

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: P856146

Luminaire Tested: **FFX-CLB-100-722-U-FR-T5-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856146
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-100-722-U-FR-T5-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

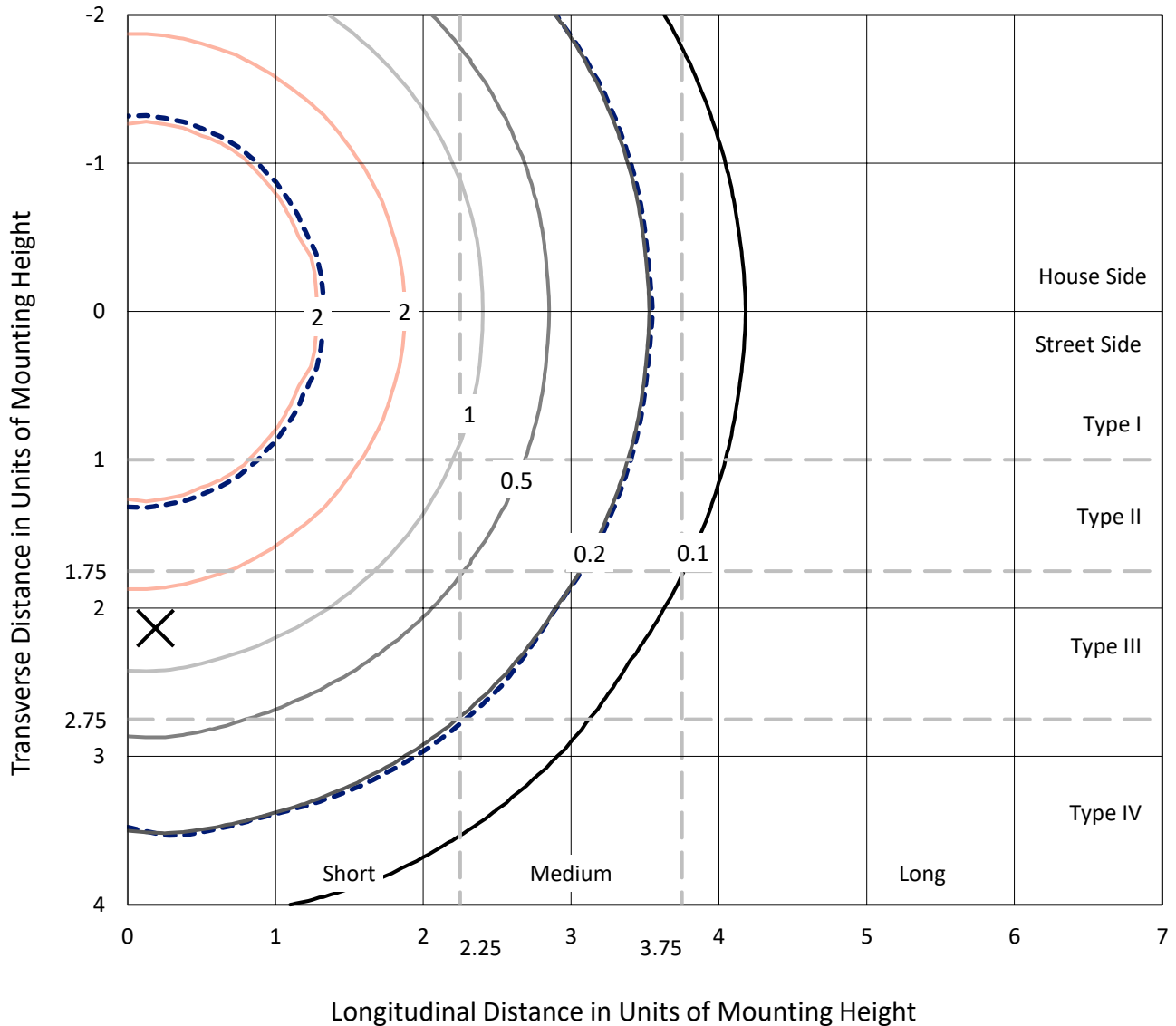
Lumens per Lamp: N/A
Luminaire Lumens: 12831.4 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B4 - U5 - G3

Input Watts (W): 96.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2%%
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

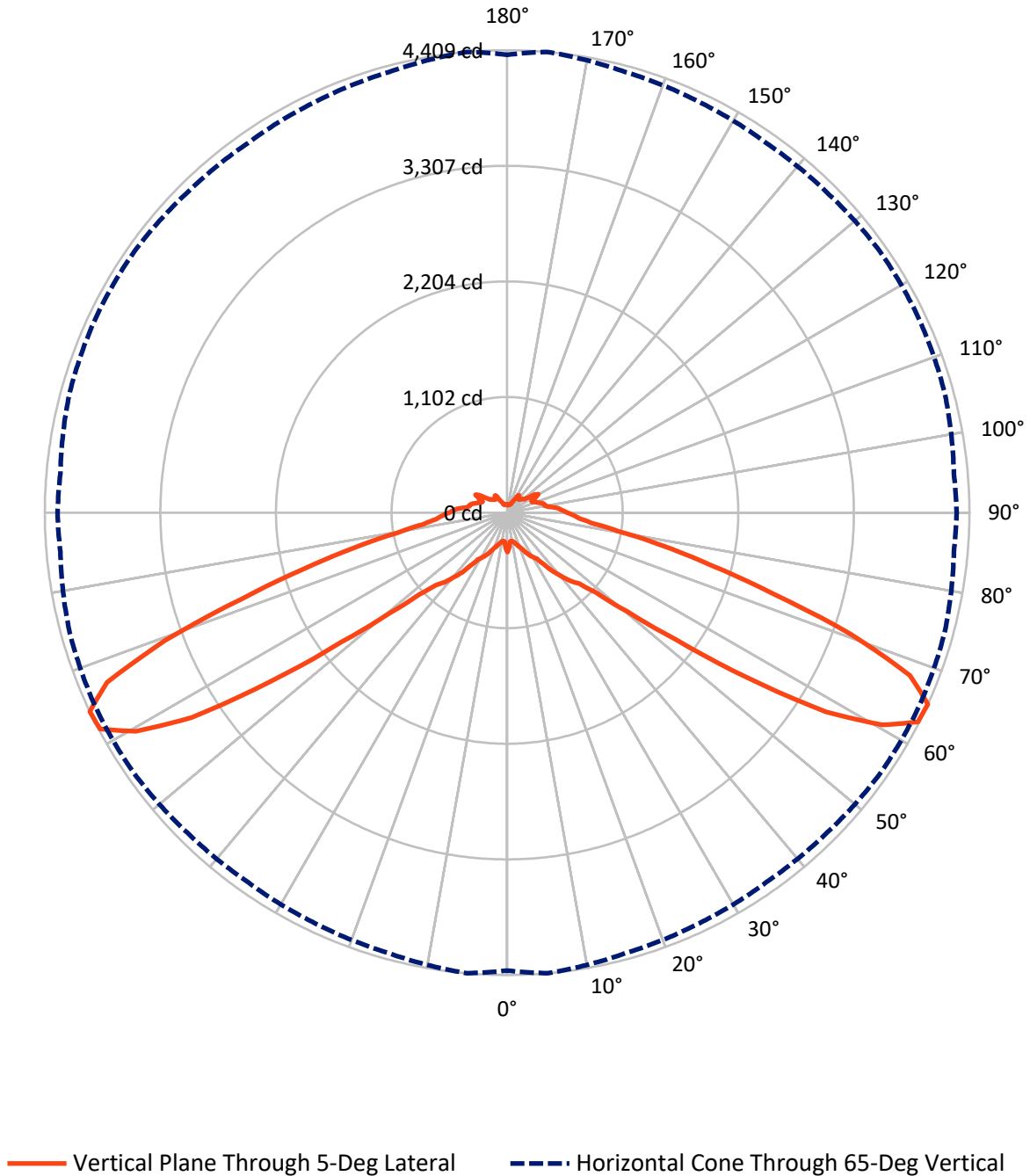
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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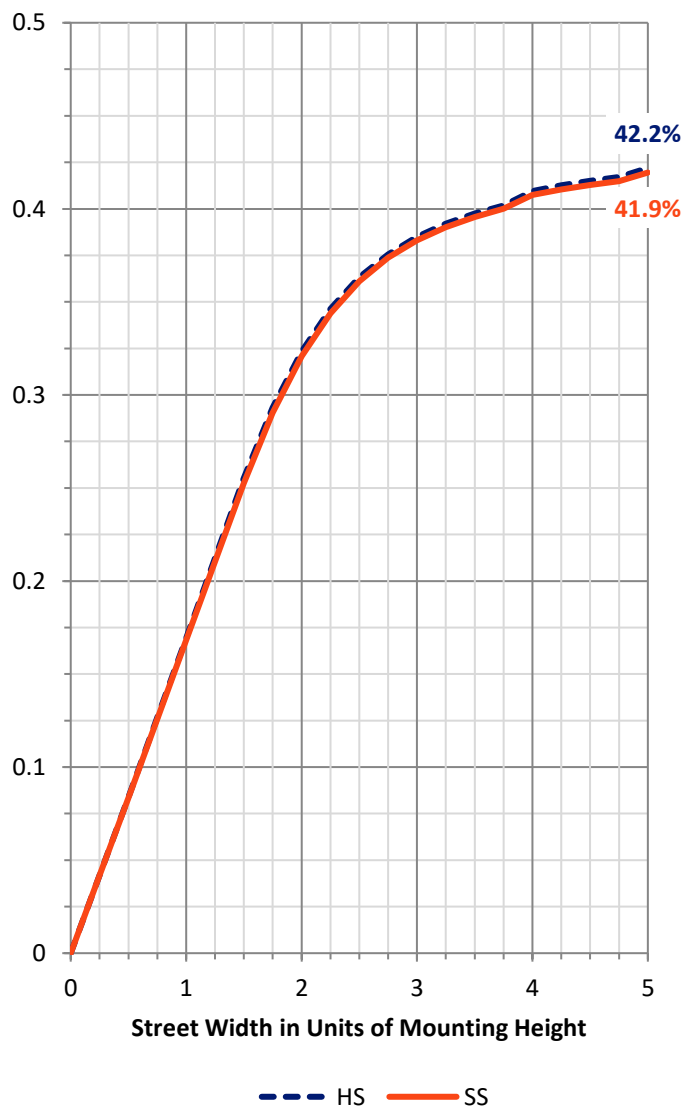
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5605.0	810.7	6415.7
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	5605.0	810.7	6415.7
	% Fixture	43.7	6.3	50.0
Total	Lumens	11209.9	1621.5	12831.4
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	0.2
10°-20°	90.1	0.7
20°-30°	195.3	1.5
30°-40°	395.6	3.1
40°-50°	797.6	6.2
50°-60°	2535.7	19.8
60°-70°	4089.3	31.9
70°-80°	2230.0	17.4
80°-90°	849.1	6.6
90°-100°	509.5	4.0
100°-110°	325.0	2.5
110°-120°	247.2	1.9
120°-130°	209.1	1.6
130°-140°	136.3	1.1
140°-150°	114.2	0.9
150°-160°	51.2	0.4
160°-170°	21.7	0.2
170°-180°	7.3	0.1
0°-90°	11209.9	87.4
0°-180°	12831.4	100.0



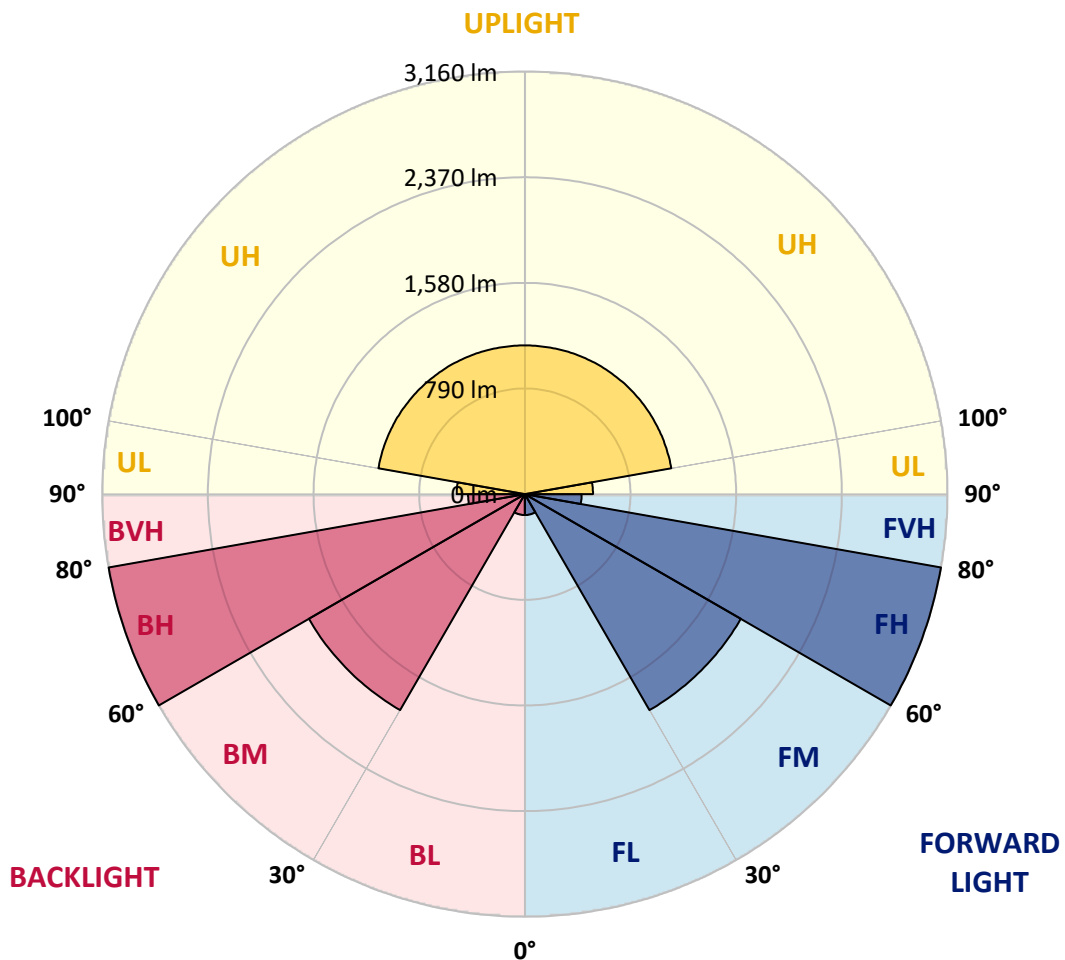
REPORT NUMBER: P856146
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.3	1.2			
FM (30°-60°)	1864.4	14.5			
FH (60°-80°)	3159.6	24.6			G2/5000
FVH (80°-90°)	424.6	3.3			G3/500
BL (0°-30°)	156.3	1.2	B1/500		
BM (30°-60°)	1864.4	14.5	B2/2500		
BH (60°-80°)	3159.6	24.6	B4/5000		G2/5000
BVH (80°-90°)	424.6	3.3			G3/500
UL (90°-100°)	509.5	4.0		U4/1000	
UH (100°-180°)	1112.0	8.7		U5	

BUG Rating: B4-U5-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6
2.5°	336.4	341.7	327.0	314.9	309.5	310.9	322.9	335.0	322.9	327.0	327.0
5°	278.7	280.1	280.1	277.4	281.4	273.4	264.0	264.0	273.4	284.1	284.1
7.5°	269.3	273.4	284.1	284.1	288.1	274.7	261.3	262.6	276.0	292.1	296.1
10°	277.4	277.4	274.7	277.4	286.8	285.4	270.7	264.0	273.4	289.4	294.8
12.5°	289.4	289.4	297.5	309.5	310.9	298.8	284.1	282.7	293.5	304.2	304.2
15°	306.9	308.2	312.2	310.9	314.9	310.9	306.9	309.5	316.2	316.2	316.2
17.5°	329.6	329.6	329.6	329.6	329.6	331.0	332.3	332.3	332.3	335.0	335.0
20°	355.1	355.1	353.8	352.4	352.4	353.8	355.1	355.1	355.1	357.8	357.8
22.5°	387.3	385.9	383.3	383.3	383.3	384.6	381.9	380.6	379.2	380.6	380.6
25°	424.8	424.8	422.1	418.1	418.1	416.8	412.7	411.4	410.1	412.7	411.4
27.5°	462.3	462.3	458.3	452.9	452.9	452.9	450.3	447.6	444.9	446.2	446.2
30°	497.2	494.5	493.1	489.1	487.8	489.1	486.4	486.4	481.1	479.7	482.4
32.5°	529.3	526.6	529.3	525.3	521.3	525.3	524.0	524.0	515.9	513.2	515.9
35°	617.8	611.1	616.4	607.0	601.7	603.0	605.7	611.1	603.0	599.0	600.3
37.5°	712.9	711.6	729.0	743.7	741.0	718.3	703.5	706.2	716.9	731.7	731.7
40°	801.3	798.7	802.7	797.3	797.3	794.6	793.3	800.0	778.6	773.2	769.2
42.5°	893.8	892.5	869.7	837.5	830.8	857.6	869.7	879.1	848.2	837.5	829.5
45°	984.9	966.2	962.1	951.4	940.7	958.1	956.8	963.5	948.7	947.4	940.7
47.5°	1176.6	1141.7	1129.7	1131.0	1108.2	1127.0	1135.0	1156.5	1125.6	1127.0	1125.6
50°	1522.3	1478.1	1498.2	1484.8	1460.6	1483.4	1482.1	1520.9	1470.0	1488.8	1480.7
52.5°	2062.3	2002.0	2014.1	2006.0	1981.9	2028.8	2039.5	2097.2	1999.3	2023.5	2016.8
55°	2843.6	2777.9	2804.7	2708.2	2682.8	2775.2	2810.1	2877.1	2747.1	2760.5	2753.8
57.5°	3588.6	3584.6	3630.2	3561.8	3539.0	3604.7	3572.5	3631.5	3561.8	3611.4	3595.3
60°	4096.5	4107.2	4152.8	4172.9	4132.7	4167.5	4089.8	4134.0	4112.6	4184.9	4178.2
62.5°	4360.5	4395.3	4368.5	4369.9	4325.6	4352.5	4337.7	4363.2	4357.8	4364.5	4357.8
65°	4365.9	4408.7	4349.8	4323.0	4304.2	4314.9	4340.4	4340.4	4324.3	4276.1	4286.8
67.5°	4080.4	4144.7	4079.1	4041.6	4052.3	4048.3	4065.7	4042.9	4033.5	3962.5	3963.8
70°	3378.2	3481.4	3384.9	3350.1	3378.2	3395.7	3394.3	3375.6	3360.8	3272.4	3297.8
72.5°	2564.8	2656.0	2570.2	2556.8	2583.6	2610.4	2587.6	2610.4	2586.3	2546.1	2558.1
75°	1936.4	2014.1	2014.1	2065.0	2073.0	2058.3	1995.3	2020.8	2036.9	2038.2	2050.3
77.5°	1424.5	1506.2	1549.1	1632.2	1628.1	1602.7	1526.3	1555.8	1586.6	1608.0	1622.8
80°	1013.1	1074.7	1137.7	1196.7	1204.7	1183.3	1136.4	1153.8	1172.5	1187.3	1195.3
82.5°	785.3	813.4	801.3	794.6	805.4	836.2	846.9	857.6	830.8	813.4	820.1
85°	684.8	687.4	708.9	723.6	727.6	727.6	716.9	725.0	731.7	749.1	749.1
87.5°	624.5	627.1	680.7	695.5	700.8	694.1	680.7	686.1	691.5	702.2	702.2
90°	554.8	562.8	616.4	628.5	633.8	623.1	619.1	623.1	616.4	620.4	620.4
92.5°	515.9	515.9	541.4	536.0	534.7	536.0	537.4	541.4	534.7	532.0	532.0
95°	471.7	478.4	471.7	477.1	475.7	469.0	466.3	469.0	465.0	465.0	467.7
97.5°	395.3	396.7	384.6	388.6	388.6	383.3	376.6	379.2	375.2	377.9	379.2
100°	369.9	365.8	345.7	343.1	341.7	337.7	333.7	333.7	332.3	331.0	332.3
102.5°	361.8	361.8	335.0	329.6	327.0	320.3	314.9	314.9	314.9	314.9	316.2
105°	331.0	340.4	320.3	316.2	312.2	304.2	296.1	294.8	297.5	294.8	298.8
107.5°	300.2	308.2	297.5	297.5	293.5	285.4	280.1	278.7	280.1	277.4	280.1
110°	282.7	286.8	274.7	274.7	272.0	265.3	264.0	262.6	262.6	258.6	261.3



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CATALOG NUMBER: FFX-CLB-100-722-U-FR-T5-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	261.3	261.3	251.9	249.2	249.2	245.2	243.9	242.5	242.5	242.5	243.9
115°	260.0	258.6	243.9	234.5	233.2	231.8	233.2	231.8	231.8	230.5	230.5
117.5°	317.6	304.2	254.6	231.8	231.8	233.2	238.5	234.5	225.1	225.1	223.8
120°	343.1	345.7	293.5	269.3	264.0	257.3	255.9	253.3	243.9	242.5	247.9
122.5°	302.8	316.2	284.1	274.7	269.3	261.3	255.9	254.6	254.6	247.9	257.3
125°	235.8	247.9	231.8	230.5	229.1	230.5	227.8	227.8	230.5	226.5	227.8
127.5°	202.3	207.7	201.0	201.0	199.7	198.3	195.6	197.0	195.6	197.0	198.3
130°	194.3	198.3	191.6	188.9	188.9	190.3	190.3	190.3	186.3	183.6	184.9
132.5°	193.0	191.6	180.9	175.5	175.5	184.9	188.9	188.9	179.6	172.9	172.9
135°	174.2	175.5	174.2	167.5	168.8	171.5	175.5	176.9	167.5	163.5	164.8
137.5°	167.5	171.5	172.9	170.2	170.2	167.5	166.2	167.5	164.8	166.2	166.2
140°	167.5	168.8	172.9	175.5	172.9	170.2	170.2	170.2	171.5	175.5	178.2
142.5°	171.5	172.9	171.5	170.2	174.2	180.9	186.3	186.3	182.2	179.6	180.9
145°	197.0	201.0	201.0	197.0	199.7	197.0	197.0	194.3	194.3	194.3	195.6
147.5°	187.6	186.3	188.9	193.0	188.9	187.6	187.6	188.9	191.6	193.0	194.3
150°	147.4	143.4	146.1	154.1	152.8	152.8	152.8	154.1	155.4	155.4	156.8
152.5°	116.6	116.6	119.3	119.3	120.6	120.6	119.3	119.3	119.3	120.6	120.6
155°	104.5	103.2	105.9	109.9	107.2	107.2	107.2	107.2	107.2	107.2	108.5
157.5°	91.1	89.8	89.8	91.1	91.1	91.1	91.1	92.5	92.5	91.1	92.5
160°	83.1	83.1	81.7	81.7	81.7	83.1	84.4	84.4	83.1	81.7	81.7
162.5°	79.1	79.1	76.4	75.0	75.0	76.4	79.1	79.1	76.4	75.0	75.0
165°	79.1	77.7	73.7	71.0	71.0	73.7	77.7	77.7	73.7	71.0	71.0
167.5°	77.7	77.7	75.0	72.4	72.4	75.0	76.4	77.7	76.4	73.7	72.4
170°	75.0	75.0	76.4	76.4	75.0	75.0	75.0	75.0	76.4	76.4	76.4
172.5°	77.7	76.4	77.7	79.1	79.1	77.7	76.4	76.4	77.7	79.1	79.1
175°	79.1	79.1	77.7	77.7	77.7	76.4	76.4	76.4	77.7	79.1	77.7
177.5°	71.0	71.0	69.7	71.0	71.0	71.0	69.7	71.0	71.0	71.0	72.4
180°	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0

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: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

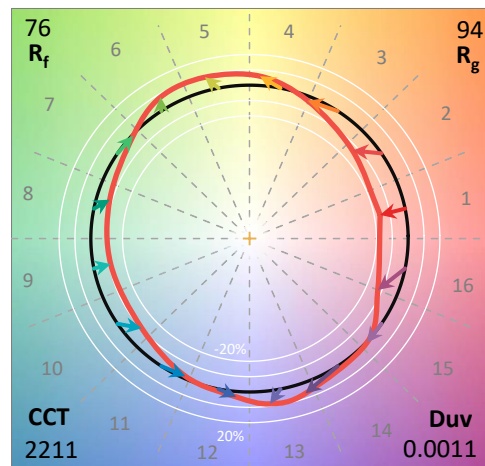
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 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-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

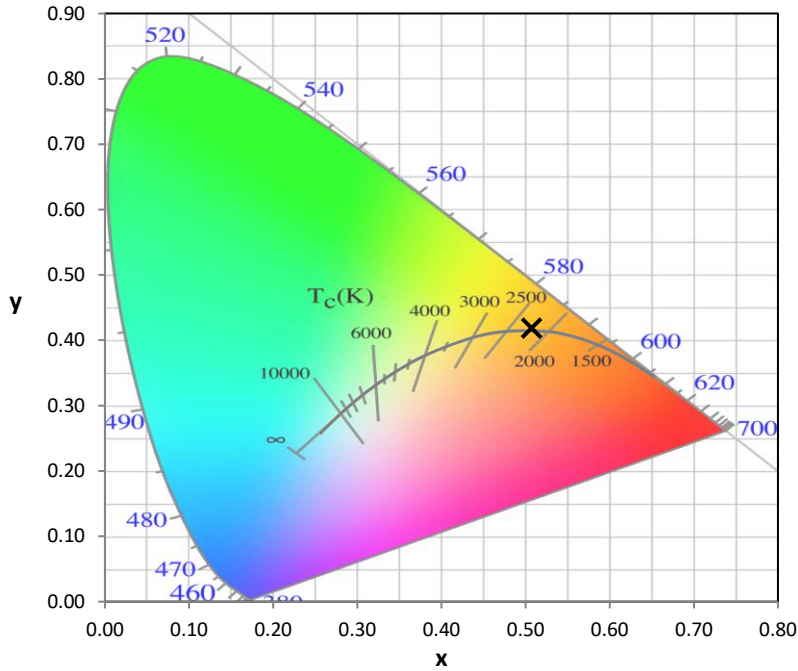
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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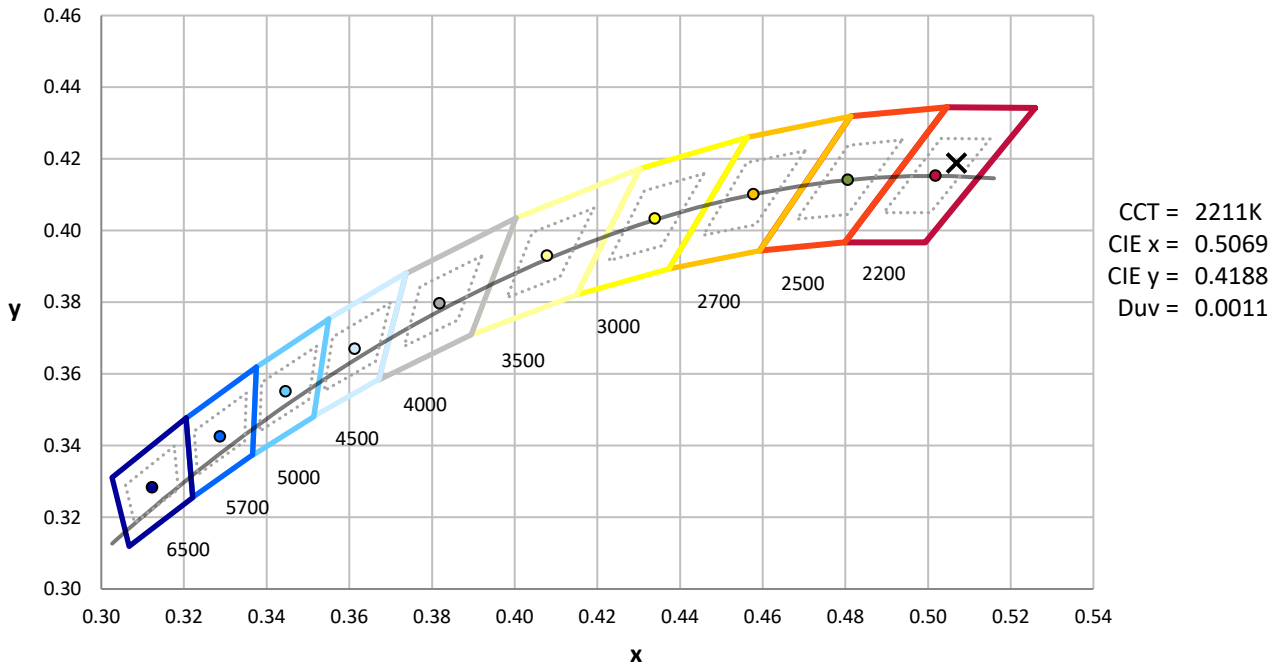
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



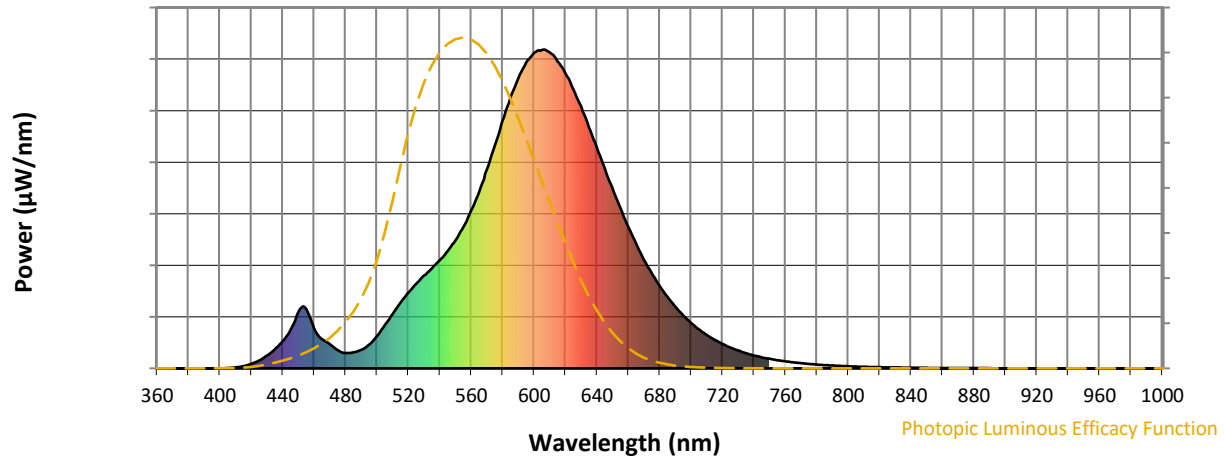
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

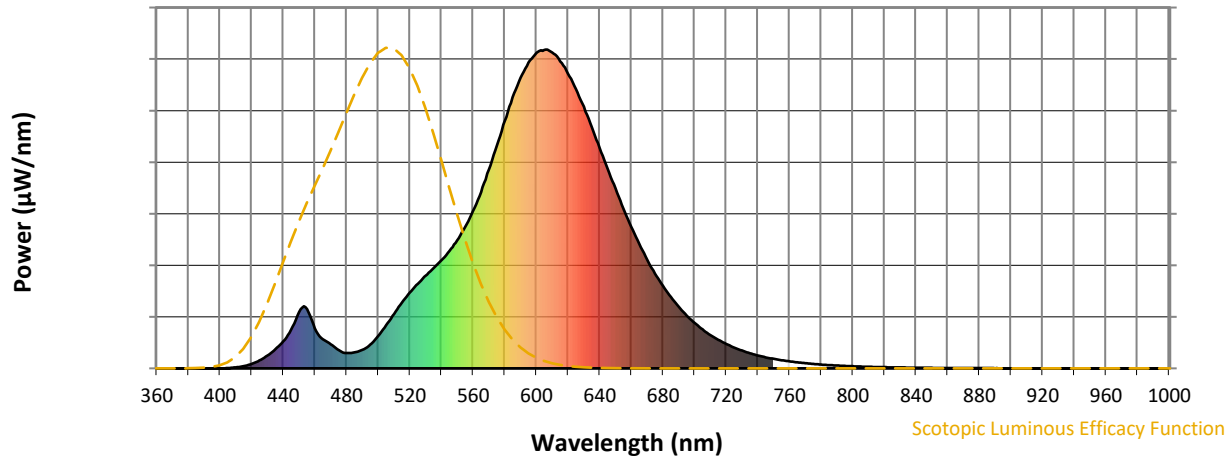


Photopic Lumens: NR

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



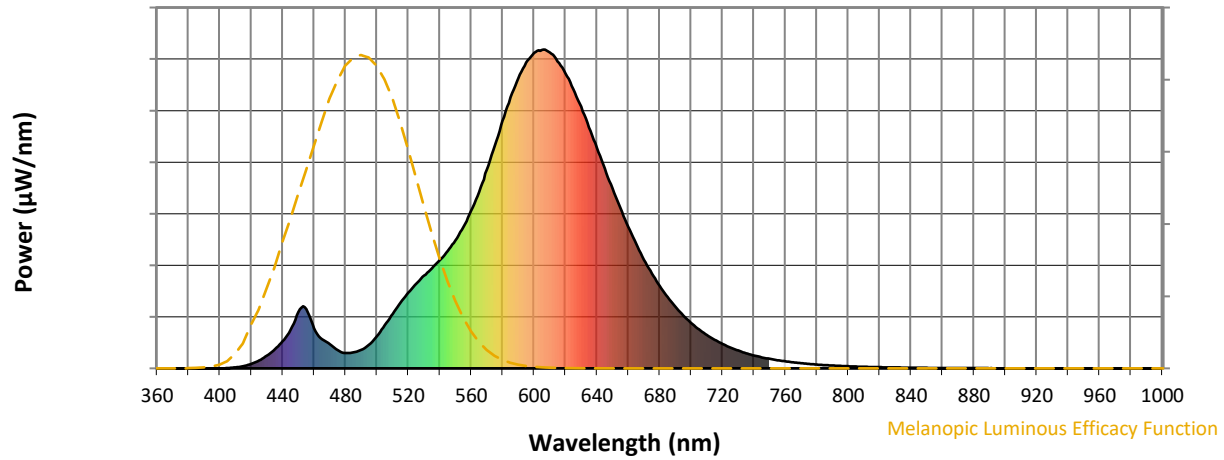
Scotopic Lumens: NR

S/P: 0.87

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

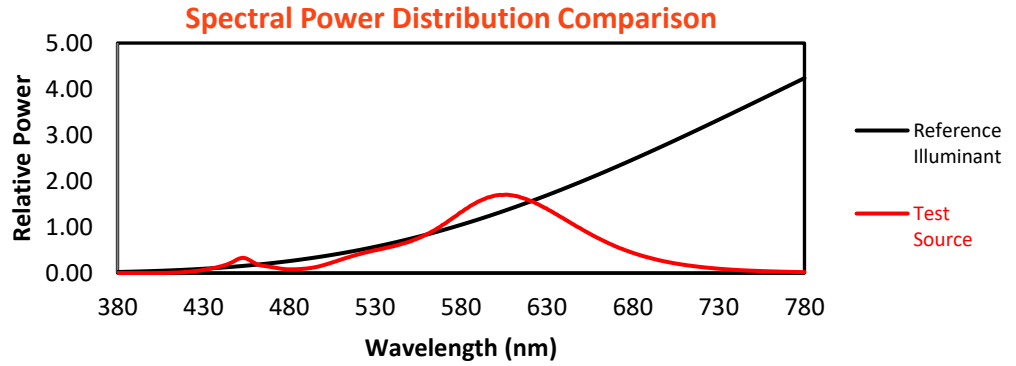
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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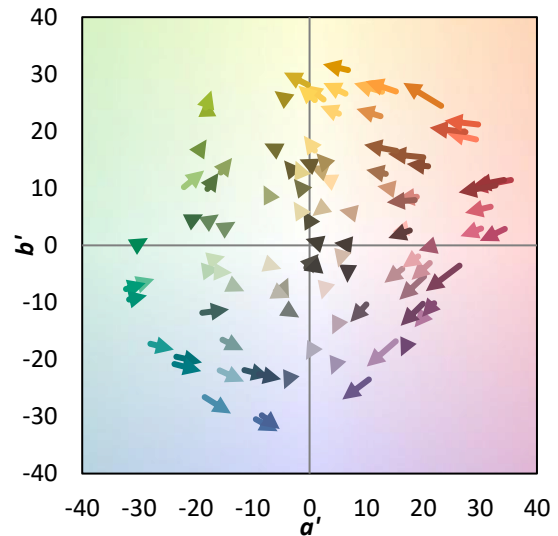
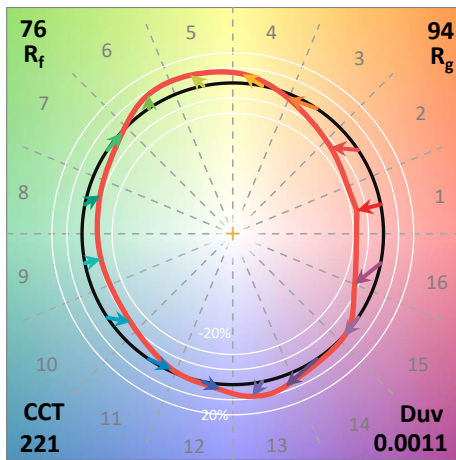
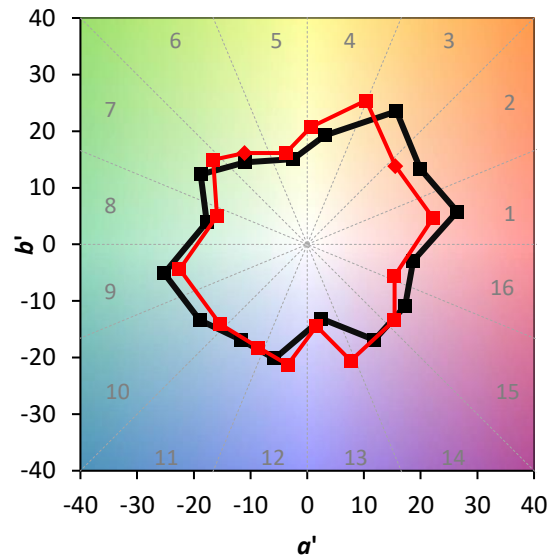
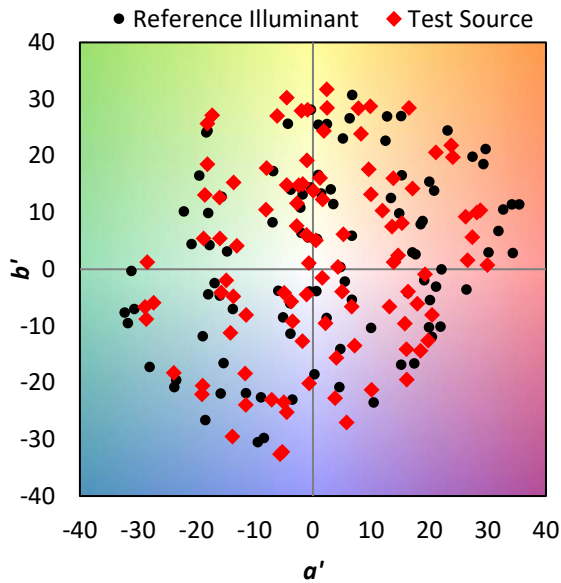
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Summary

$R_f = 76.1$
 $R_g = 94.3$
 CIE $R_a = 71.4$
 $R_9 = -29.2$



Color Vector Graphics

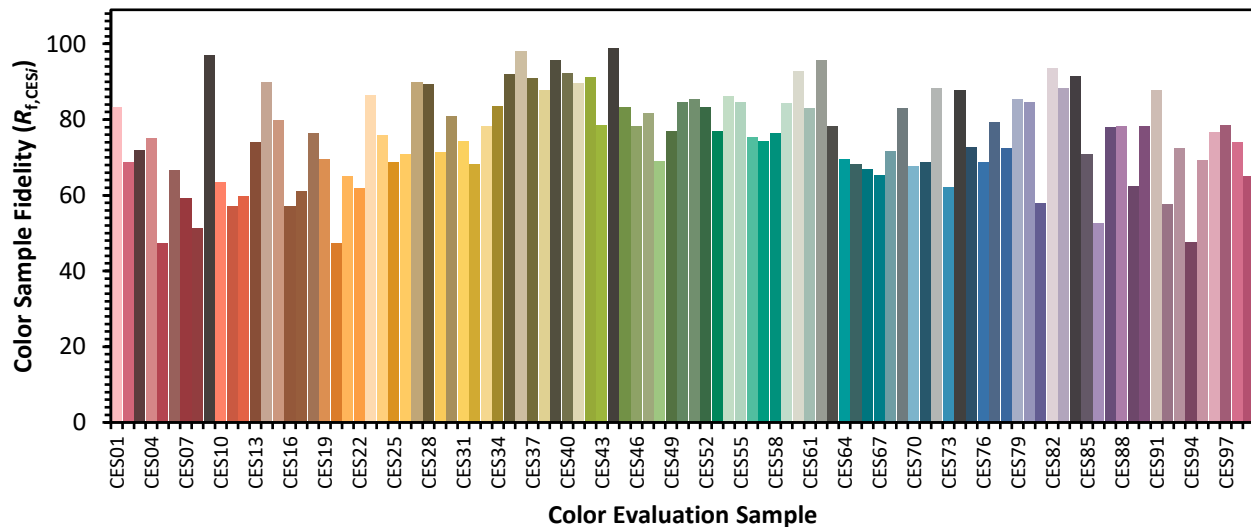


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Individual Sample Fidelity Index ($R_{f,i}$)

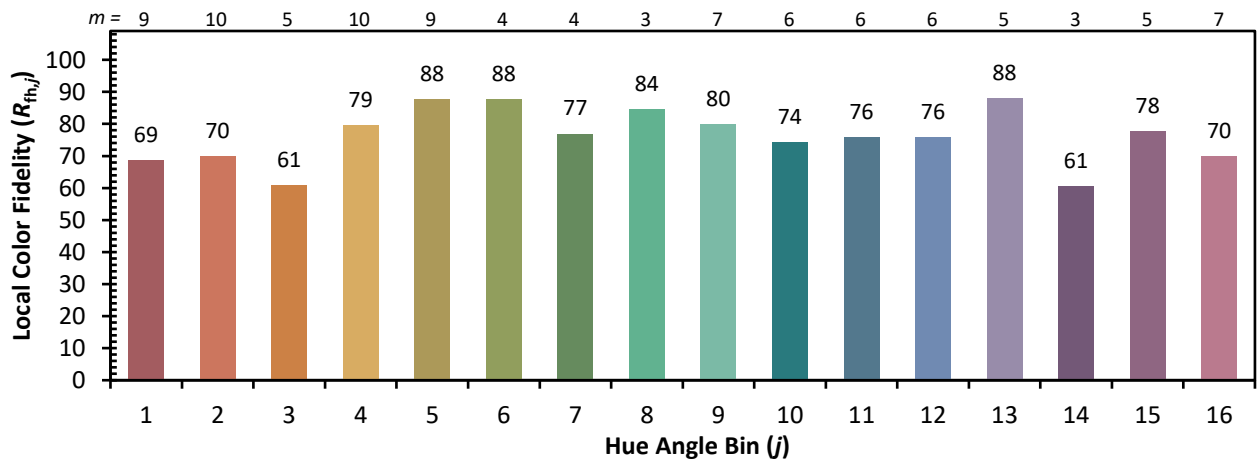
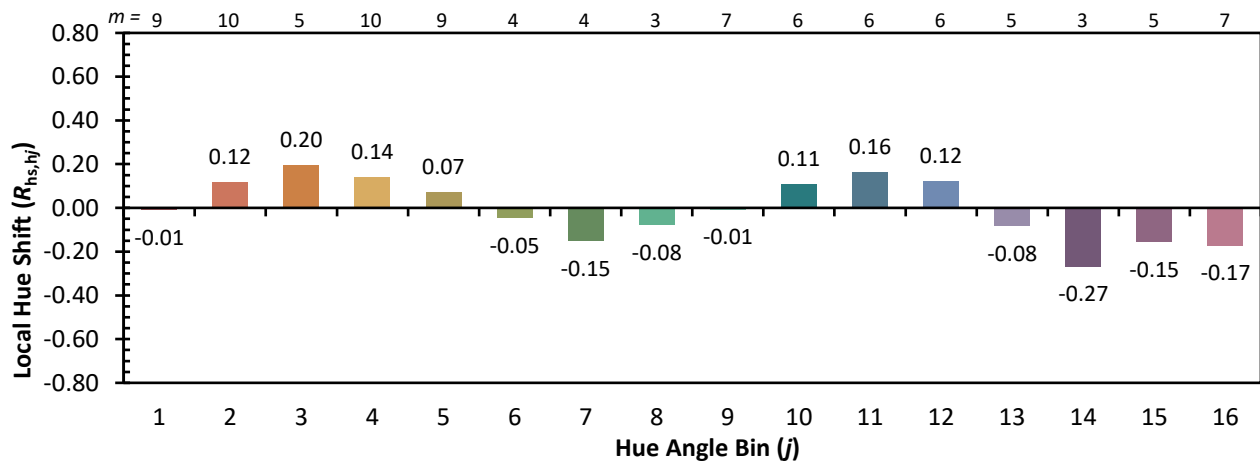
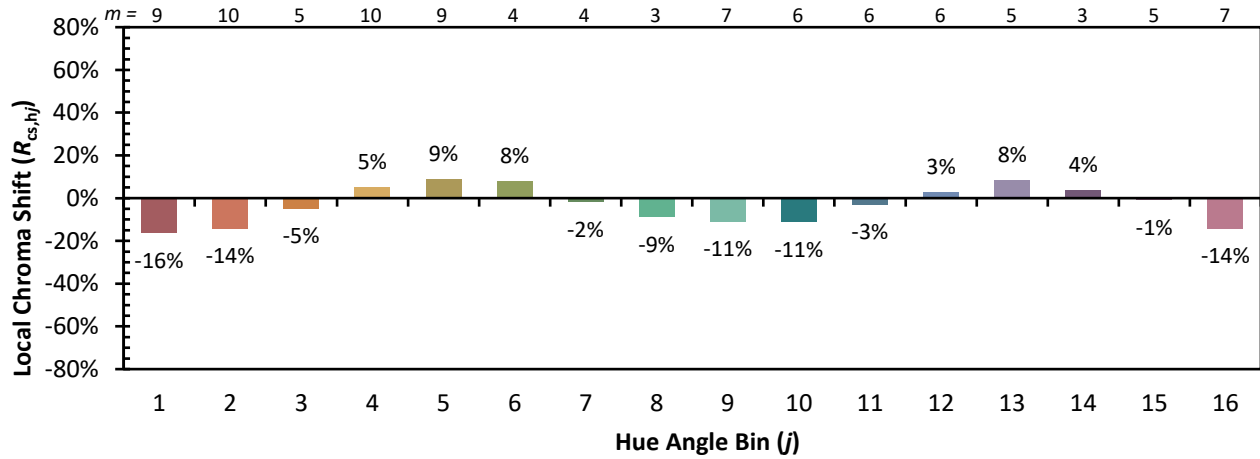
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CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



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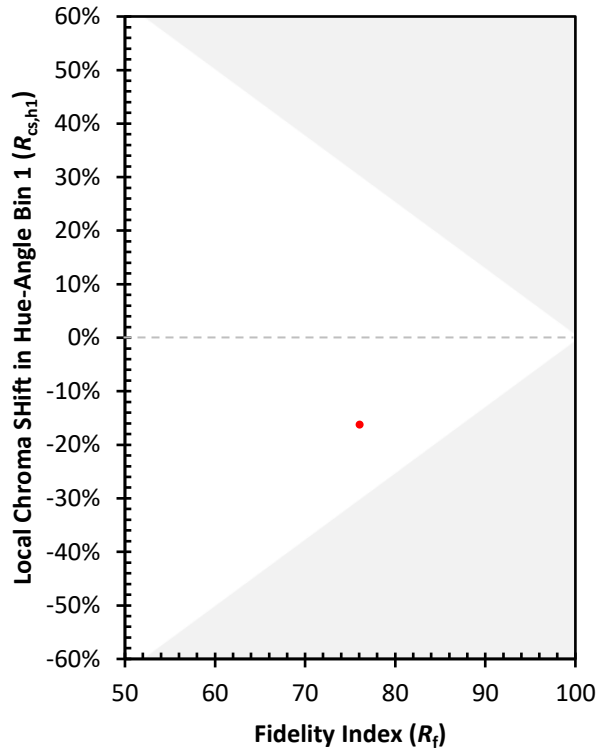
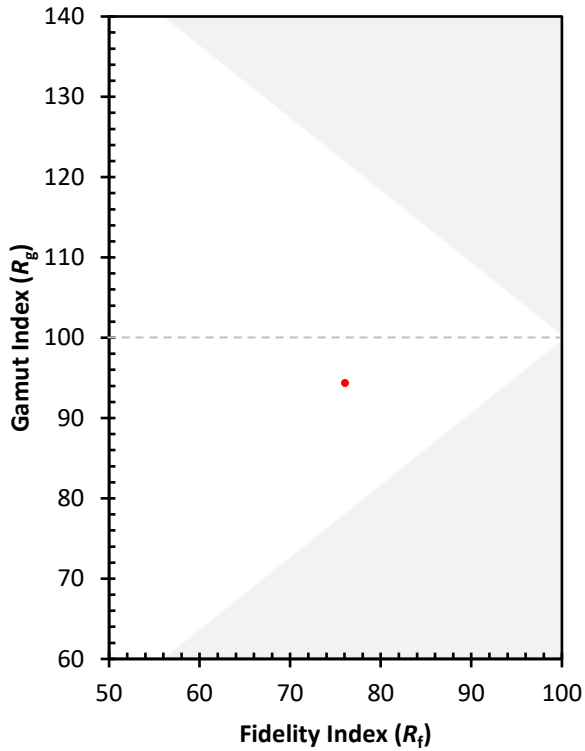
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)