

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: P856063

Luminaire Tested: **FFX-CLB-30-722-U-FR-T5**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856063  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-30-722-U-FR-T5  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS  
Light Source: (6) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

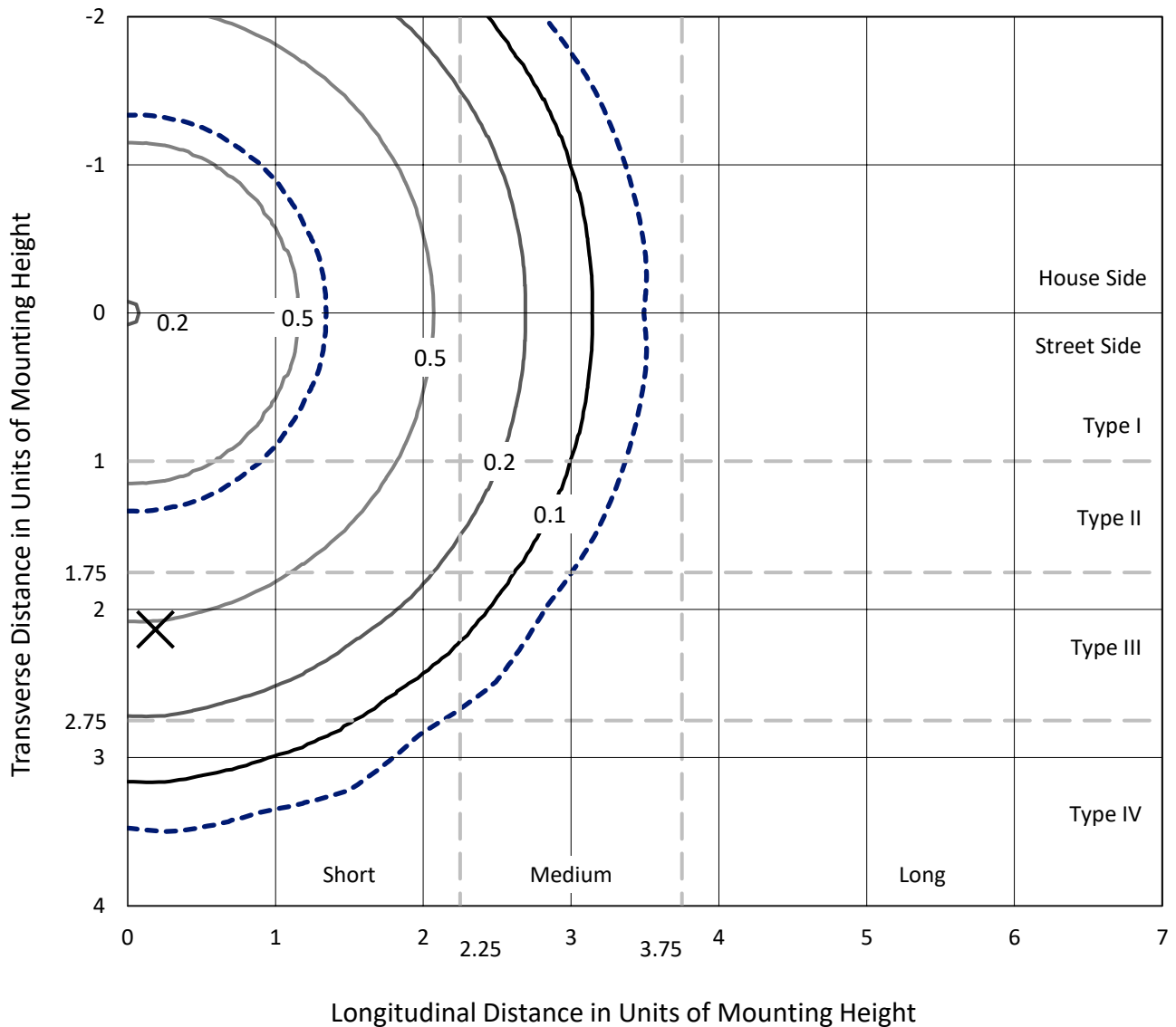
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4264.5 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type V - Short  
BUG Rating: B2 - U4 - G2  
  
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 10.6%%  
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

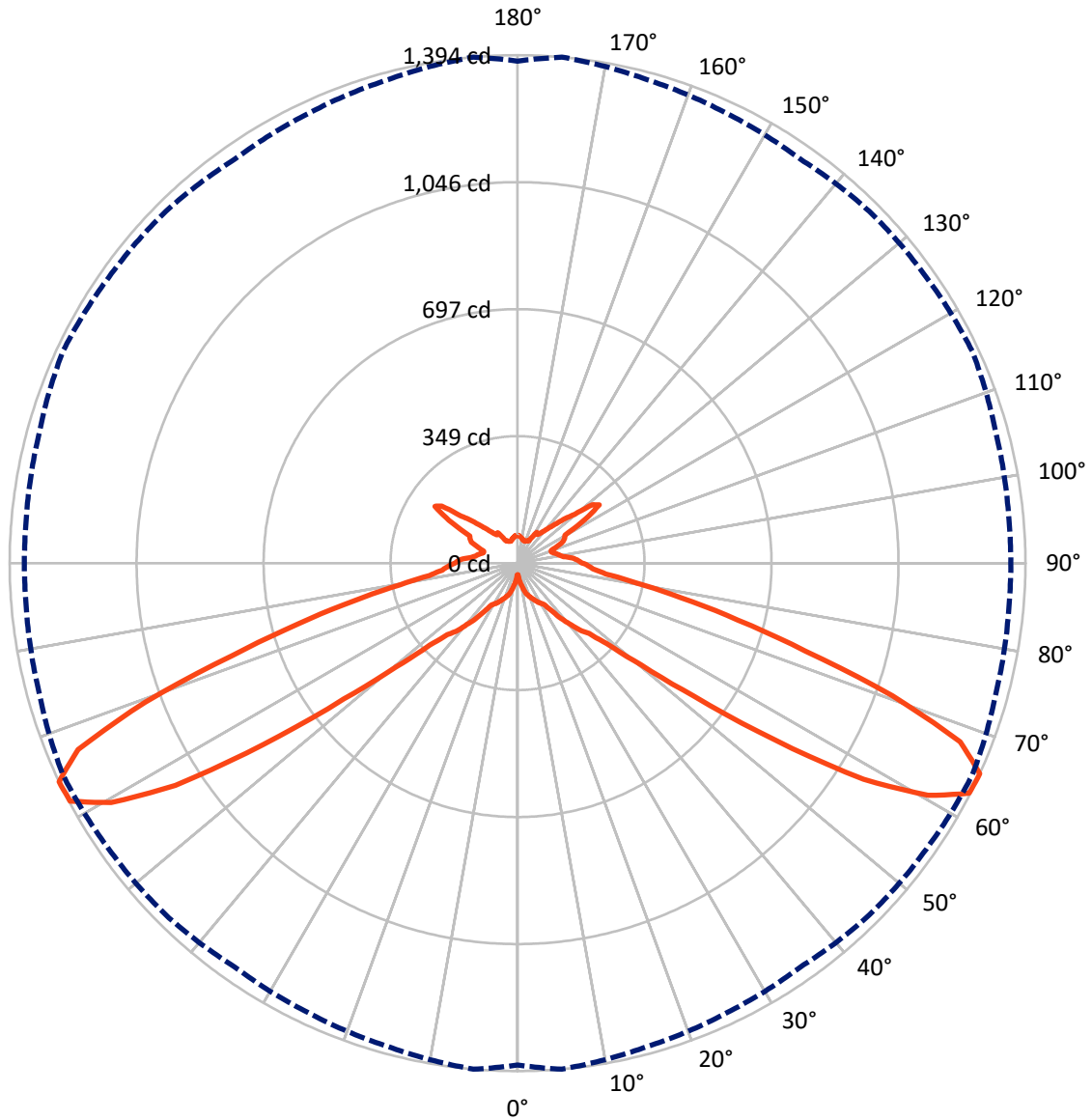
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P856063  
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T5

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: FFX-CLB-30-722-U-FR-T5

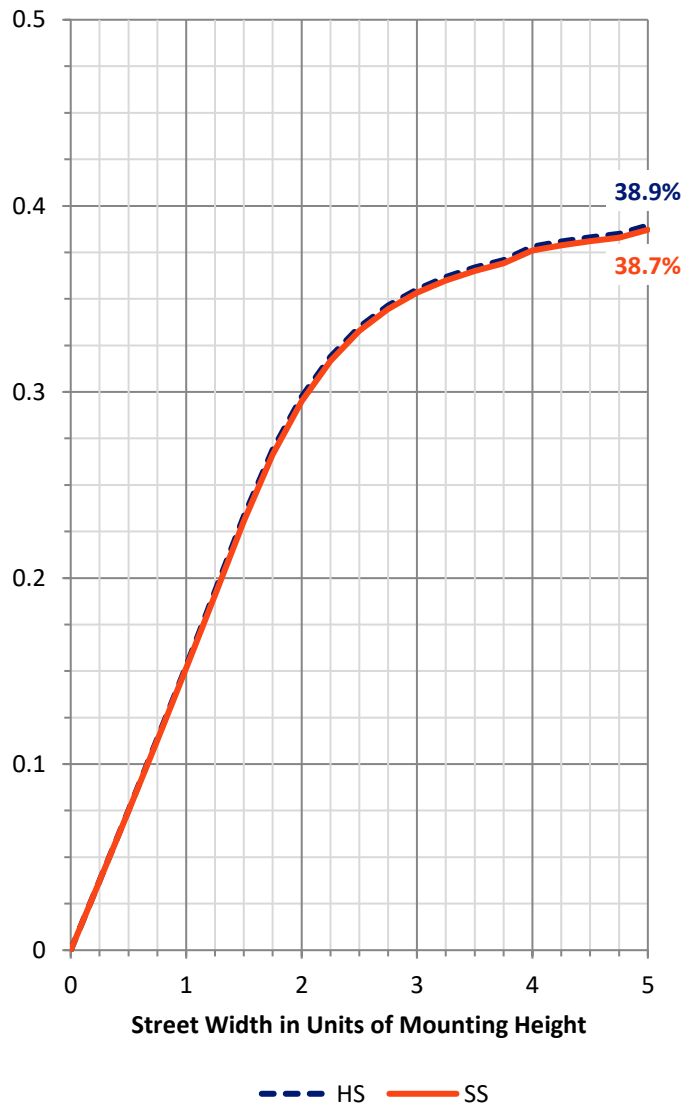
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1718.4	413.8	2132.2
	% Fixture	40.3	9.7	50.0
<b>Street Side</b>	Lumens	1718.4	413.8	2132.2
	% Fixture	40.3	9.7	50.0
<b>Total</b>	Lumens	3436.8	827.7	4264.5
	% Fixture	80.6	19.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.8	0.1
10°-20°	24.4	0.6
20°-30°	52.9	1.2
30°-40°	105.0	2.5
40°-50°	227.7	5.3
50°-60°	784.3	18.4
60°-70°	1288.1	30.2
70°-80°	691.4	16.2
80°-90°	258.2	6.1
90°-100°	163.1	3.8
100°-110°	109.2	2.6
110°-120°	120.0	2.8
120°-130°	198.6	4.7
130°-140°	117.0	2.7
140°-150°	61.9	1.5
150°-160°	32.5	0.8
160°-170°	18.5	0.4
170°-180°	6.9	0.2
0°-90°	3436.8	80.6
0°-180°	4264.5	100.0

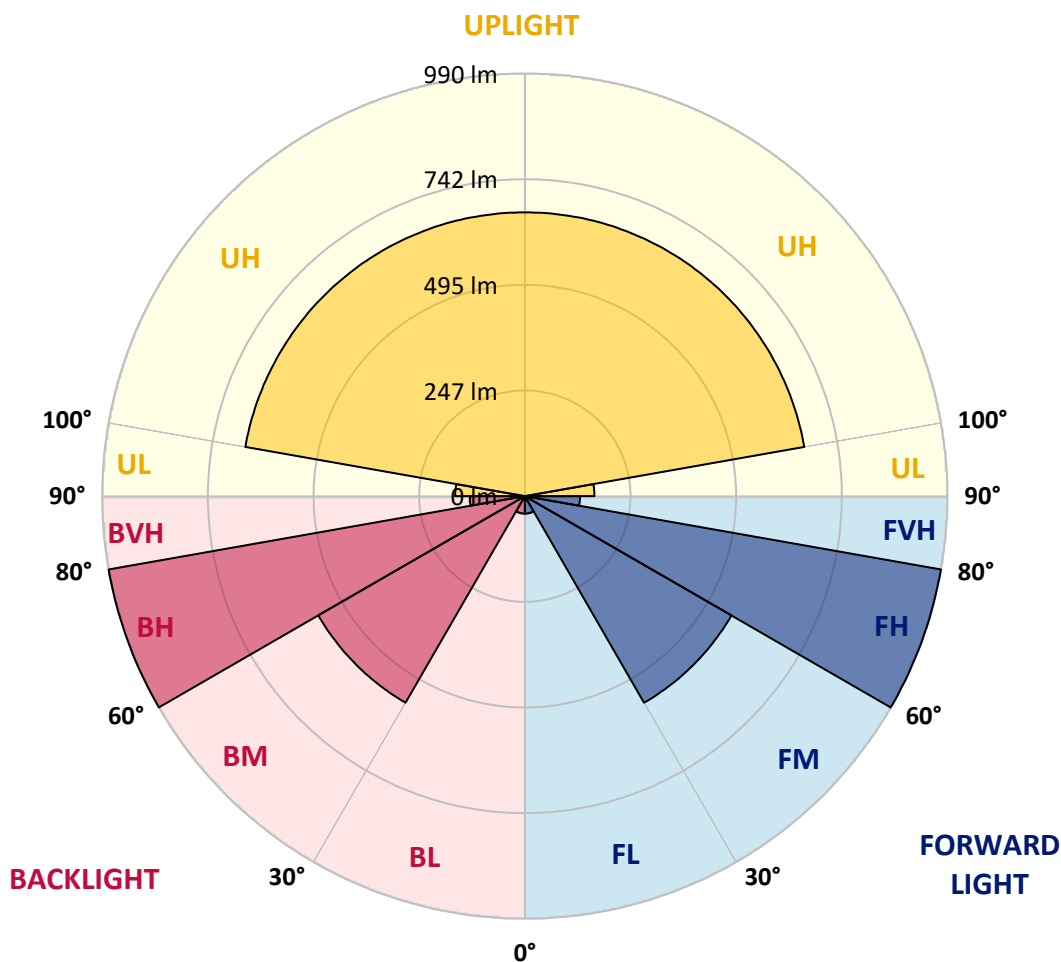


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 CATALOG NUMBER: FFX-CLB-30-722-U-FR-T5

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	41.1	1.0			
FM (30°-60°)	558.5	13.1			
FH (60°-80°)	989.7	23.2			G1/1800
FVH (80°-90°)	129.1	3.0			G2/225
BL (0°-30°)	41.1	1.0	B0/110		
BM (30°-60°)	558.5	13.1	B1/1000		
BH (60°-80°)	989.7	23.2	B2/1000		G1/1800
BVH (80°-90°)	129.1	3.0			G2/225
UL (90°-100°)	163.1	3.8		U3/500	
UH (100°-180°)	664.6	15.6		U4/1000	

**BUG Rating: B2-U4-G2**  
 Type V Short





REPORT NUMBER: P856063

CATALOG NUMBER: FFX-CLB-30-722-U-FR-T5

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
2.5°	33.5	33.5	33.0	32.6	33.0	33.5	33.5	33.9	33.0	33.0	33.5
5°	44.8	44.8	44.8	44.3	43.5	43.5	43.0	44.3	44.8	45.2	45.2
7.5°	55.6	55.2	56.1	56.5	54.3	53.5	53.5	53.9	54.8	55.6	56.5
10°	63.0	62.6	63.0	64.8	64.3	63.0	63.0	63.0	64.3	66.5	66.9
12.5°	74.3	74.3	75.2	76.5	76.9	75.6	74.8	74.8	76.5	76.9	76.5
15°	86.5	86.5	86.1	85.6	86.1	85.6	85.6	86.1	87.4	86.9	86.9
17.5°	93.0	92.6	92.1	92.6	92.6	92.1	92.6	93.5	93.0	94.3	94.8
20°	100.0	100.0	99.1	99.1	99.1	99.5	100.0	99.5	100.0	100.4	100.8
22.5°	106.5	106.5	106.1	105.6	106.1	106.5	106.9	106.1	106.1	106.9	106.9
25°	113.9	113.9	113.9	112.6	113.0	113.4	113.0	112.6	113.0	113.4	113.9
27.5°	122.1	122.1	121.3	120.0	120.4	120.4	120.8	120.0	120.8	120.8	120.8
30°	129.1	128.2	127.8	126.9	126.9	127.8	128.7	127.4	127.8	127.8	128.2
32.5°	135.6	135.6	135.2	133.4	133.0	135.6	136.5	136.0	134.3	134.7	135.2
35°	160.0	160.0	156.9	153.9	156.5	156.0	159.5	159.5	159.5	160.4	162.1
37.5°	190.4	191.7	196.5	203.4	203.4	193.4	188.2	187.8	194.7	200.8	200.4
40°	217.3	218.6	217.3	218.2	217.3	217.8	218.2	217.3	213.4	212.1	209.5
42.5°	250.8	251.2	243.0	233.4	234.3	239.1	244.7	245.1	236.9	233.0	232.1
45°	274.3	275.1	272.1	270.8	270.8	272.5	272.1	272.1	269.1	268.6	267.7
47.5°	331.6	329.9	323.8	321.6	324.3	323.0	331.2	329.0	325.6	325.6	328.6
50°	439.9	438.1	438.6	436.4	443.4	433.4	443.4	440.7	435.5	438.1	440.3
52.5°	616.8	605.9	607.2	602.9	615.0	605.9	622.4	620.3	603.3	610.7	611.1
55°	871.5	857.6	856.7	827.6	850.2	853.2	874.1	879.3	846.3	846.7	848.9
57.5°	1124.0	1119.7	1133.6	1115.3	1131.4	1124.0	1123.6	1133.2	1114.0	1116.6	1123.6
60°	1291.4	1294.8	1310.5	1315.3	1320.9	1310.5	1289.2	1293.5	1292.2	1314.4	1316.1
62.5°	1380.9	1391.3	1380.0	1376.6	1371.8	1375.7	1373.1	1375.7	1367.9	1378.3	1378.7
65°	1377.9	1394.4	1374.0	1361.4	1353.5	1365.7	1369.2	1377.0	1360.5	1354.0	1354.0
67.5°	1290.5	1310.5	1278.3	1277.0	1257.9	1278.3	1272.7	1278.8	1265.7	1256.6	1247.9
70°	1073.6	1091.9	1053.2	1058.0	1024.9	1058.4	1049.7	1061.0	1050.6	1032.7	1022.3
72.5°	808.9	825.0	796.3	803.7	782.0	807.2	793.7	812.8	806.3	798.5	789.8
75°	612.0	624.6	626.3	651.1	625.0	637.2	612.9	624.2	635.0	644.2	634.6
77.5°	450.3	459.0	485.1	512.5	486.8	495.5	471.2	482.0	492.0	507.7	500.7
80°	318.2	328.2	352.1	372.5	353.8	361.6	346.0	352.1	359.9	371.2	363.8
82.5°	247.8	244.3	243.4	238.2	232.5	252.1	256.0	259.5	252.1	249.1	245.6
85°	207.8	208.6	213.9	220.4	220.4	220.8	216.9	218.6	221.7	227.3	227.8
87.5°	190.8	193.4	208.2	213.4	211.2	212.1	208.6	209.5	211.7	214.7	213.9
90°	168.2	174.7	188.6	193.9	190.4	192.1	190.4	191.7	189.9	190.8	189.1
92.5°	164.3	163.9	168.2	167.8	165.6	170.8	170.8	171.7	169.5	168.2	167.3
95°	152.1	151.3	150.8	152.1	147.3	151.3	150.4	152.1	151.3	151.3	149.5
97.5°	127.4	127.4	126.5	127.8	124.7	126.5	124.3	125.6	125.2	125.6	124.3
100°	117.4	117.4	116.5	116.5	115.2	115.6	114.7	114.7	114.3	113.9	113.9
102.5°	110.4	111.3	110.0	110.4	108.7	108.7	107.8	108.2	107.8	107.8	107.4
105°	103.9	104.3	103.4	103.4	102.1	101.7	100.8	101.3	101.7	100.8	100.8
107.5°	97.4	97.8	97.4	97.4	96.1	95.2	93.9	93.9	94.3	94.8	94.8
110°	100.0	98.7	97.4	96.5	98.2	95.6	94.8	94.3	94.8	96.1	96.5



REPORT NUMBER: P856063  
 CATALOG NUMBER: FFX-CLB-30-722-U-FR-T5

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	119.5	118.7	118.7	114.7	119.1	116.5	114.7	111.7	113.0	113.9	113.9
115°	138.7	139.1	133.9	132.1	129.5	129.1	130.4	126.9	126.5	126.9	126.1
117.5°	155.6	146.5	126.9	121.7	120.4	119.5	118.7	117.8	116.9	122.1	116.5
120°	166.5	150.8	136.5	133.4	140.8	130.4	123.4	122.1	124.7	133.9	132.6
122.5°	236.0	222.5	212.1	193.9	212.1	201.7	204.3	199.5	196.9	191.7	192.6
125°	276.0	275.6	270.8	267.3	271.7	267.7	263.4	261.7	259.1	260.4	258.2
127.5°	256.4	260.4	254.3	261.2	245.6	249.9	249.1	252.1	249.5	250.4	246.9
130°	203.0	206.0	200.4	196.9	189.9	197.8	198.2	203.0	197.8	190.8	189.9
132.5°	177.3	179.5	170.8	166.5	161.7	168.6	171.7	174.3	170.8	163.4	161.7
135°	150.8	151.7	145.6	146.5	143.4	143.4	143.0	144.3	146.0	144.7	143.9
137.5°	129.5	131.7	129.5	132.1	129.5	127.4	123.9	125.2	129.1	132.1	131.7
140°	112.1	114.3	114.7	117.4	112.1	113.0	110.8	111.7	113.9	116.9	118.2
142.5°	99.5	101.3	97.4	95.2	93.5	98.7	102.6	103.0	100.4	96.9	98.2
145°	96.9	95.2	96.9	95.2	96.9	96.1	96.5	96.1	96.1	96.1	96.1
147.5°	98.2	100.0	100.0	100.0	97.4	97.8	98.2	98.7	98.7	100.4	100.0
150°	81.7	83.9	83.5	85.6	81.7	82.6	83.0	83.9	84.3	84.8	85.2
152.5°	69.1	69.5	70.8	71.7	71.3	70.8	70.4	70.4	71.3	72.2	72.6
155°	67.4	67.4	68.7	70.0	68.7	68.7	68.2	68.2	68.7	70.0	70.0
157.5°	64.8	65.2	65.2	66.1	65.2	65.6	65.2	65.2	65.6	66.1	66.5
160°	63.5	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.3	64.3
162.5°	63.5	63.5	63.5	63.0	63.0	63.5	63.5	63.5	63.5	63.0	63.5
165°	64.8	64.3	63.9	63.5	63.9	64.8	65.2	65.2	64.8	63.9	64.3
167.5°	67.4	67.4	66.9	66.5	66.9	67.4	67.8	67.8	67.4	66.9	66.9
170°	70.0	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
172.5°	71.7	71.7	72.2	71.7	72.2	72.2	71.7	71.7	71.7	71.7	72.2
175°	74.3	74.3	74.3	74.3	74.8	74.8	74.8	74.8	74.8	74.8	74.8
177.5°	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
180°	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5



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: SP1-2406-133-2

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.

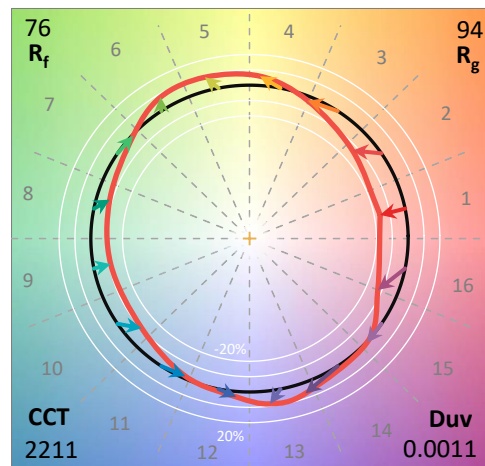
**Test Information**

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**

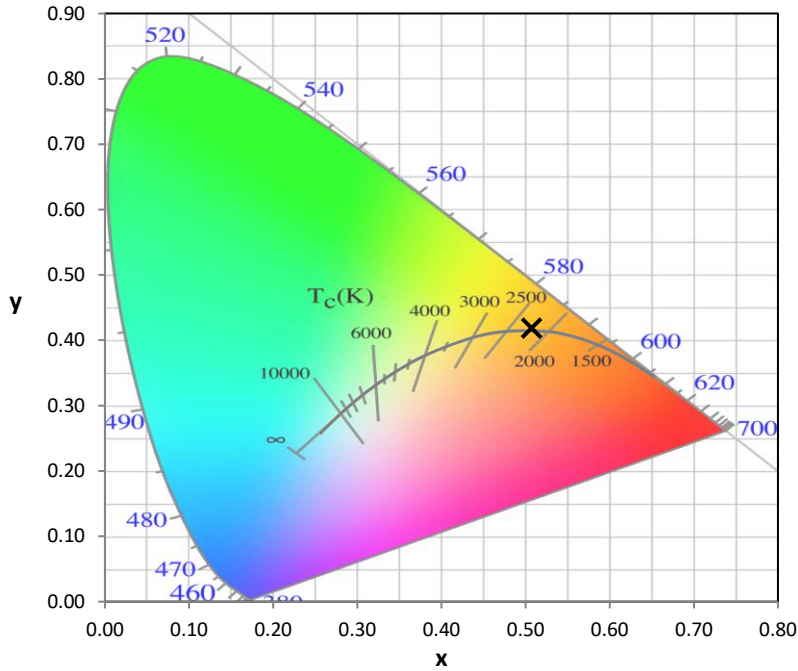
Stabilization Time: 0.813563M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

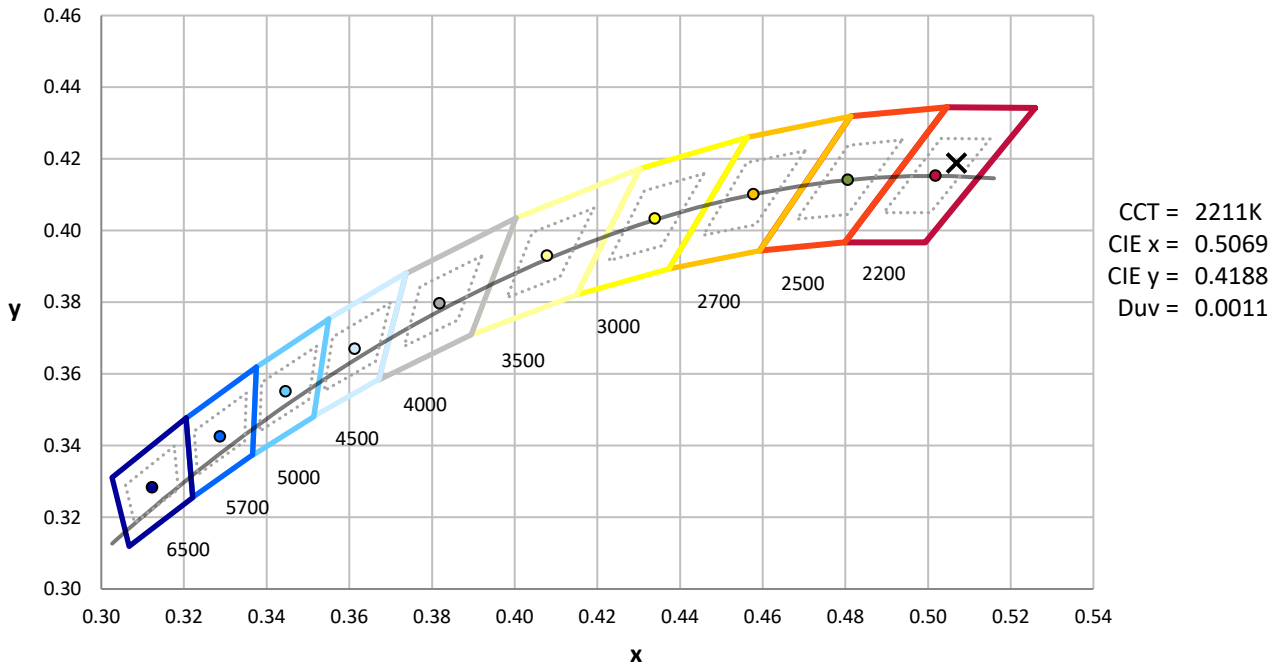
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-2

CIE 1931 Chromaticity Diagram



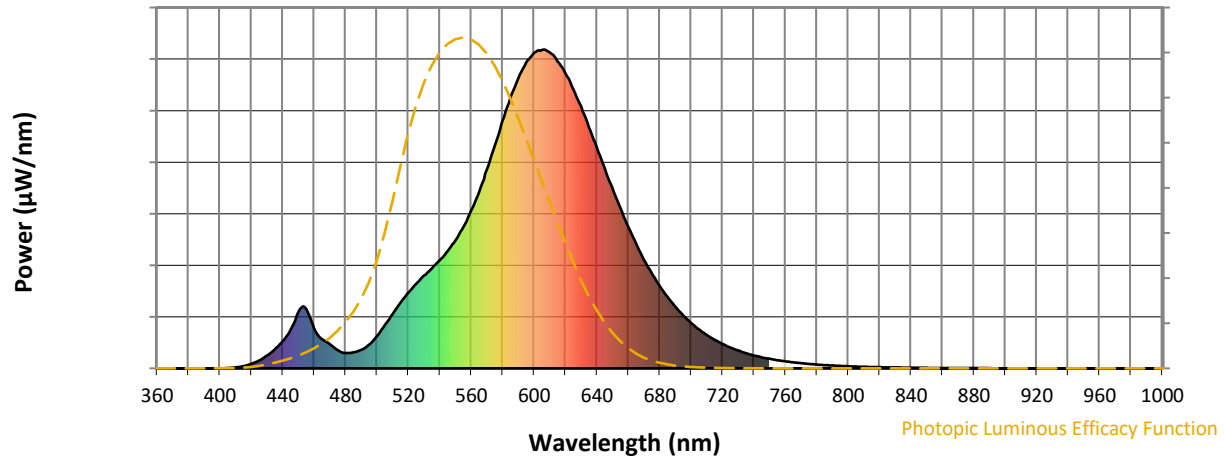
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

**Photopic Flux vs. Wavelength**

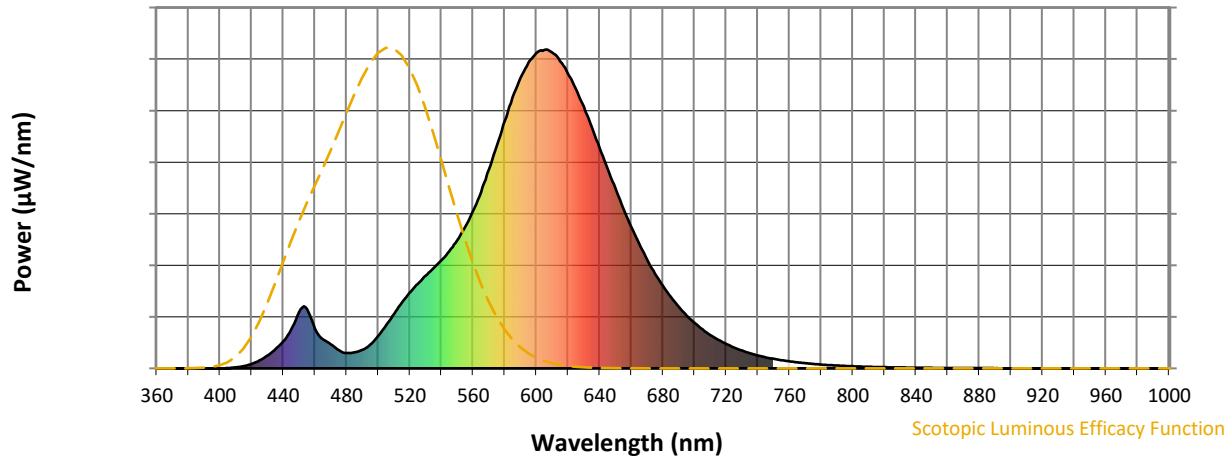


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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			

REPORT NUMBER: SP1-2406-133-2

Scotopic Flux vs. Wavelength



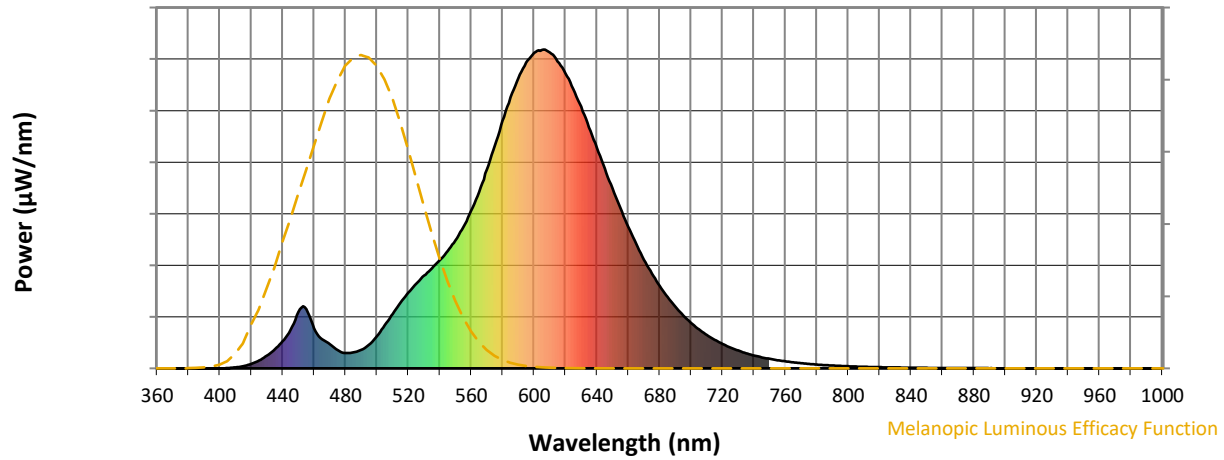
Scotopic Lumens: NR

S/P: 0.87

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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			

REPORT NUMBER: SP1-2406-133-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

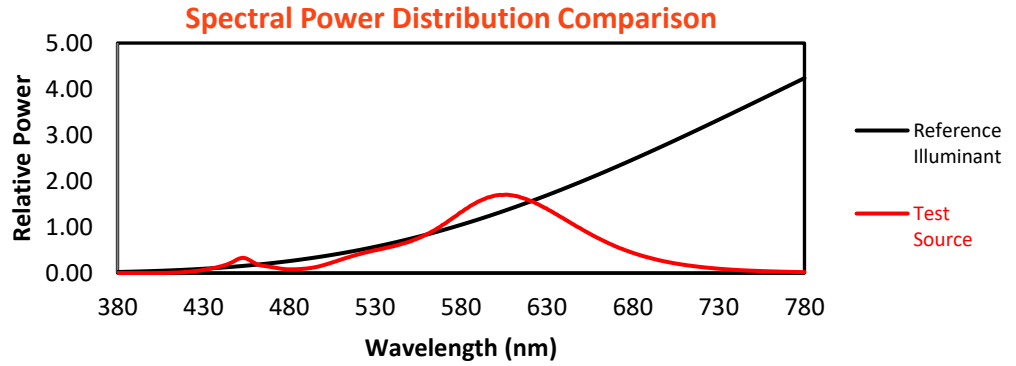
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	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			

REPORT NUMBER: SP1-2406-133-2

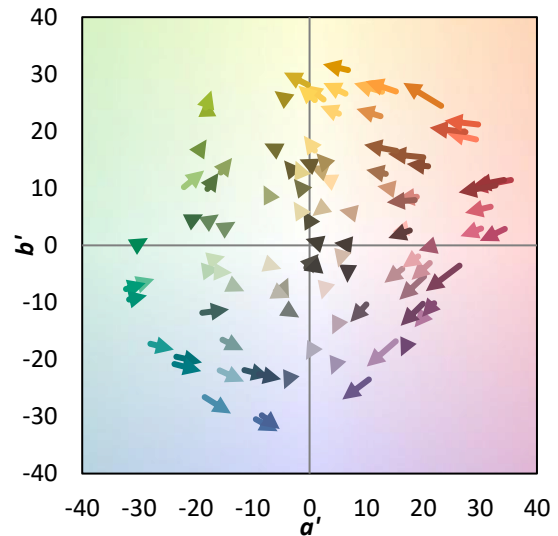
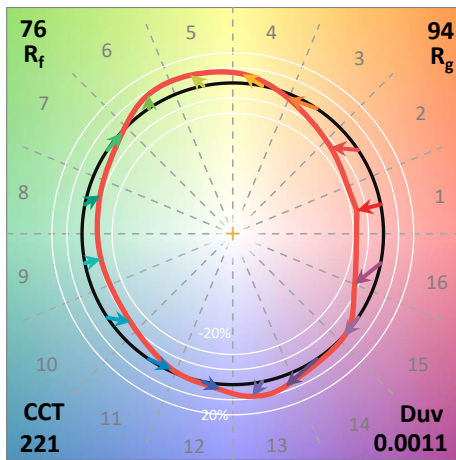
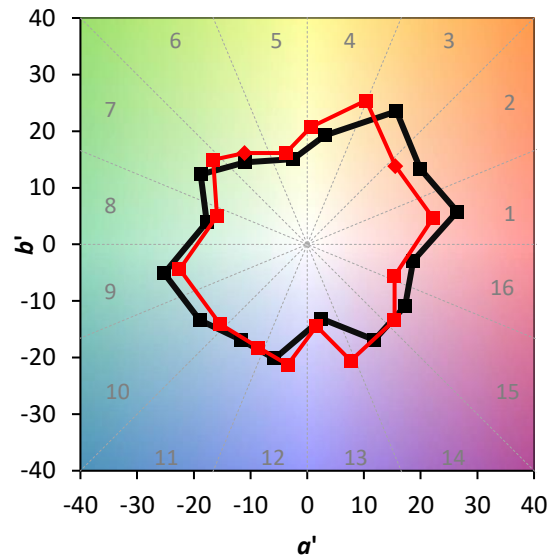
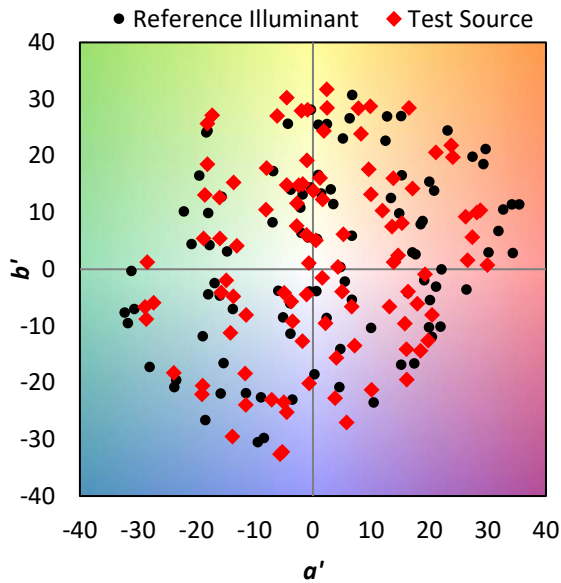
TM-30-18

**Summary**

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



**Color Vector Graphics**



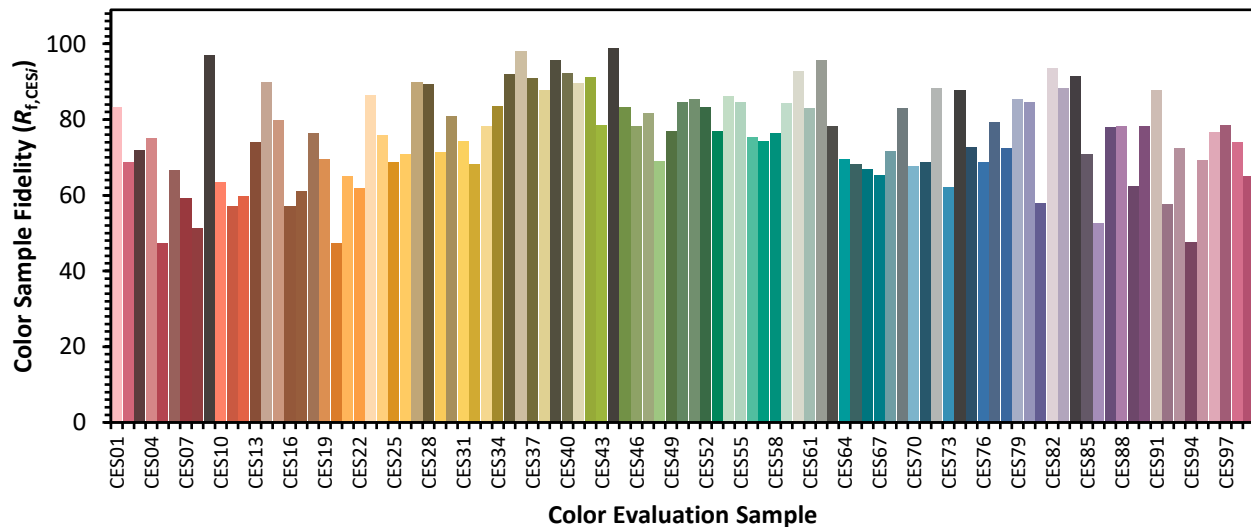


REPORT NUMBER: SP1-2406-133-2

TM-30-18

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

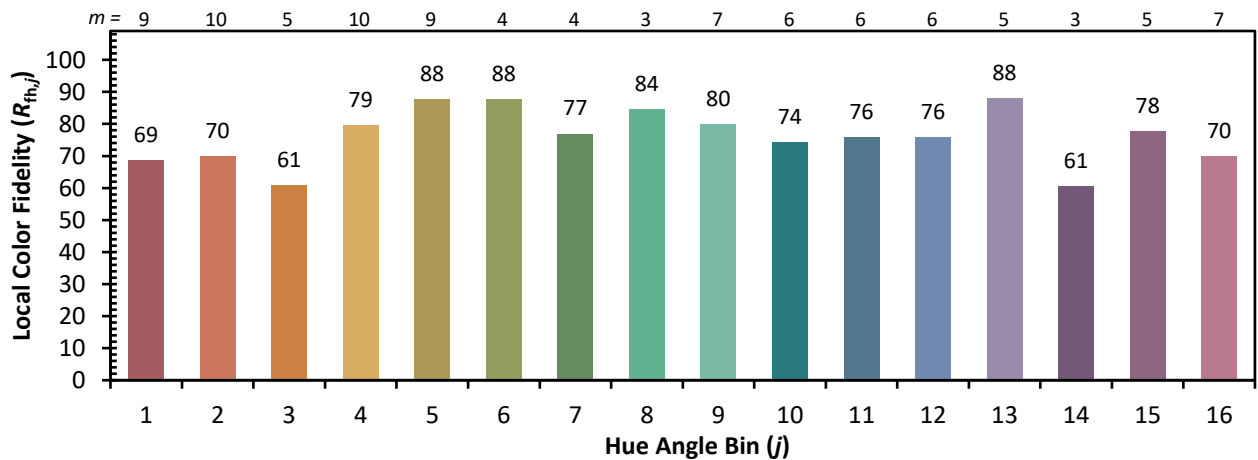
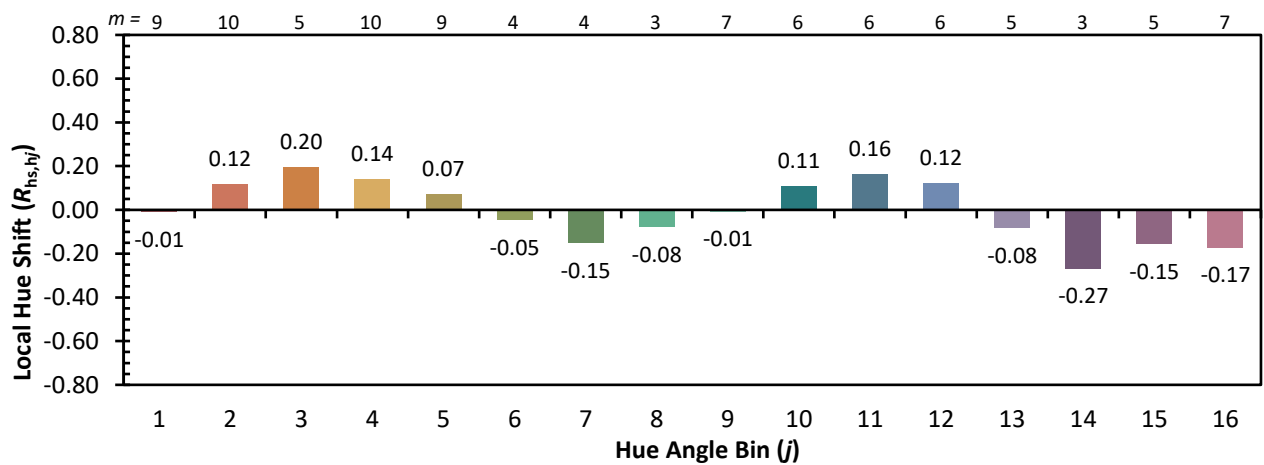
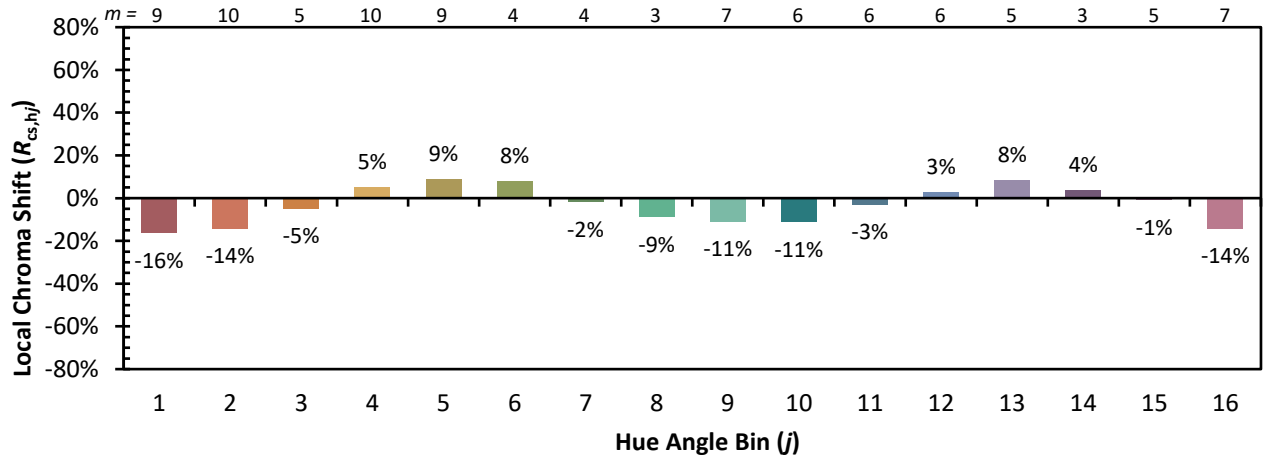
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CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 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	



REPORT NUMBER: SP1-2406-133-2

TM-30-18

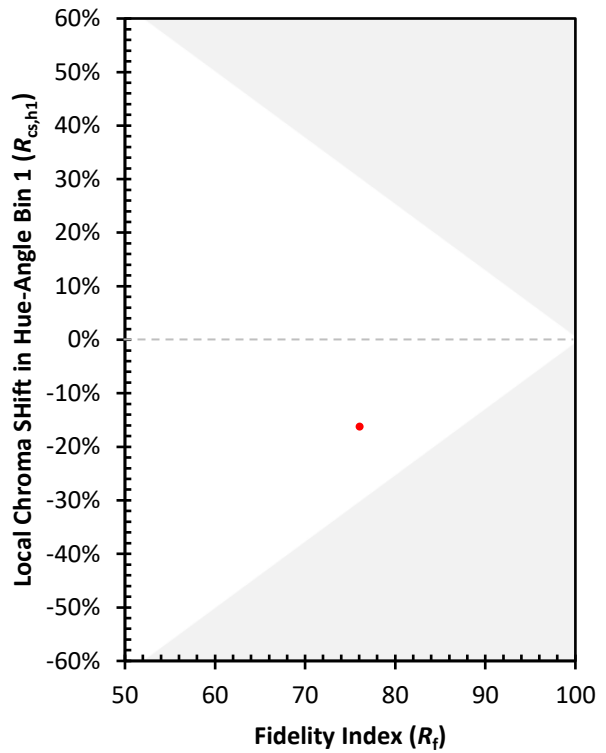
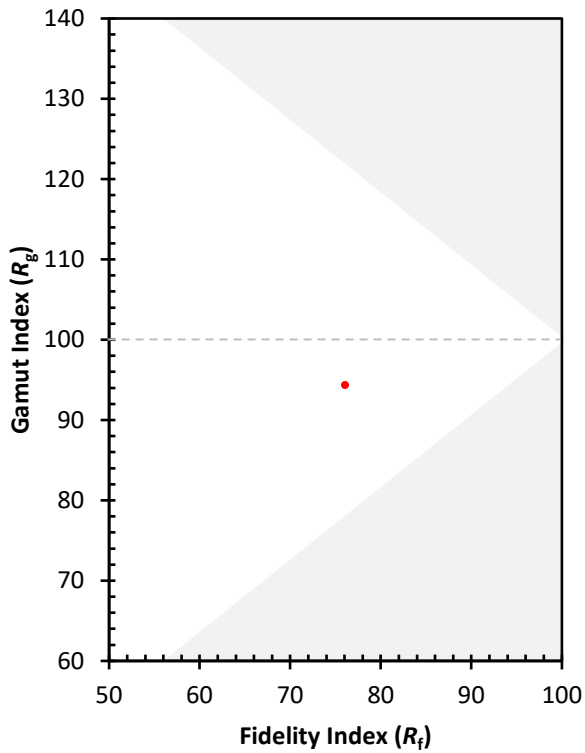
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)