

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: P856190

Luminaire Tested: **FFX-CLB-20-750-U-FR-T5-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856190  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-20-750-U-FR-T5-UPLR  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR  
Light Source: (6) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

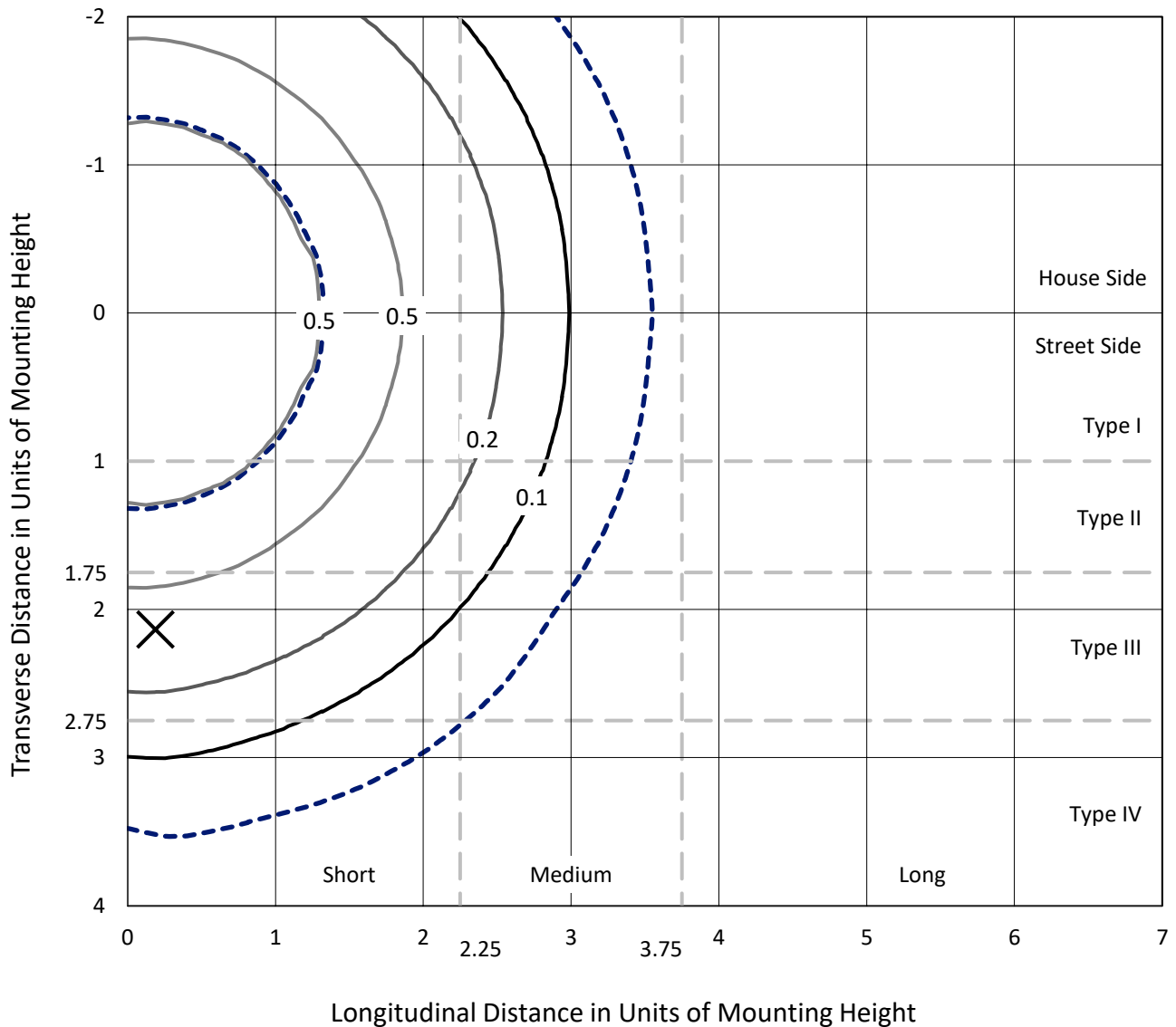
Lumens per Lamp: N/A  
Luminaire Lumens: 3151.5 lumens  
Efficiency: N/A  
Efficacy: 161.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type V - Short  
BUG Rating: B2 - U3 - G2

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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 CATALOG NUMBER: FFX-CLB-20-750-U-FR-T5-UPLR

### Iso-Footcandle Lines of Horizontal Illumination

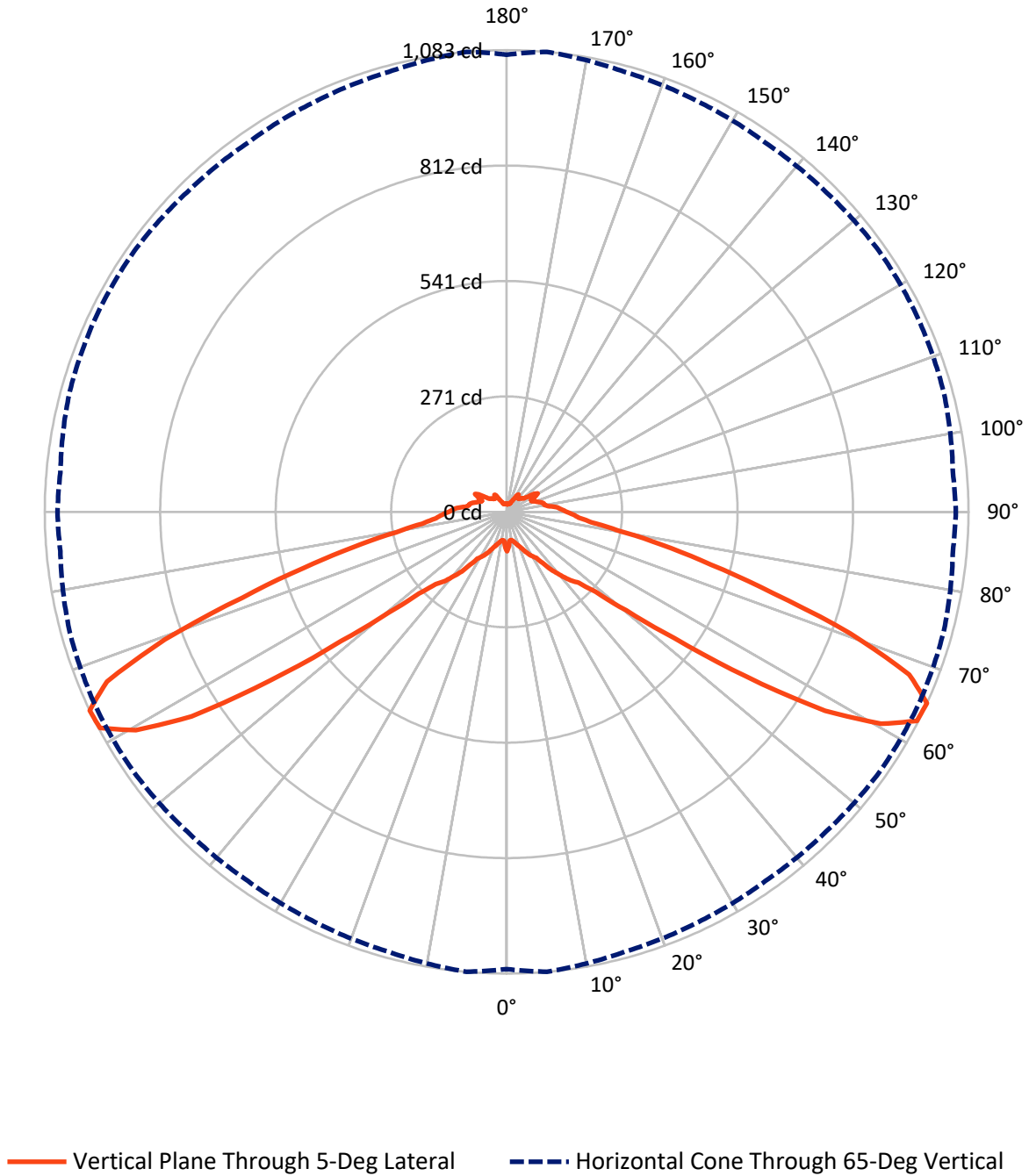
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P856190  
CATALOG NUMBER: FFX-CLB-20-750-U-FR-T5-UPLR

### Luminous Intensity Polar Plot



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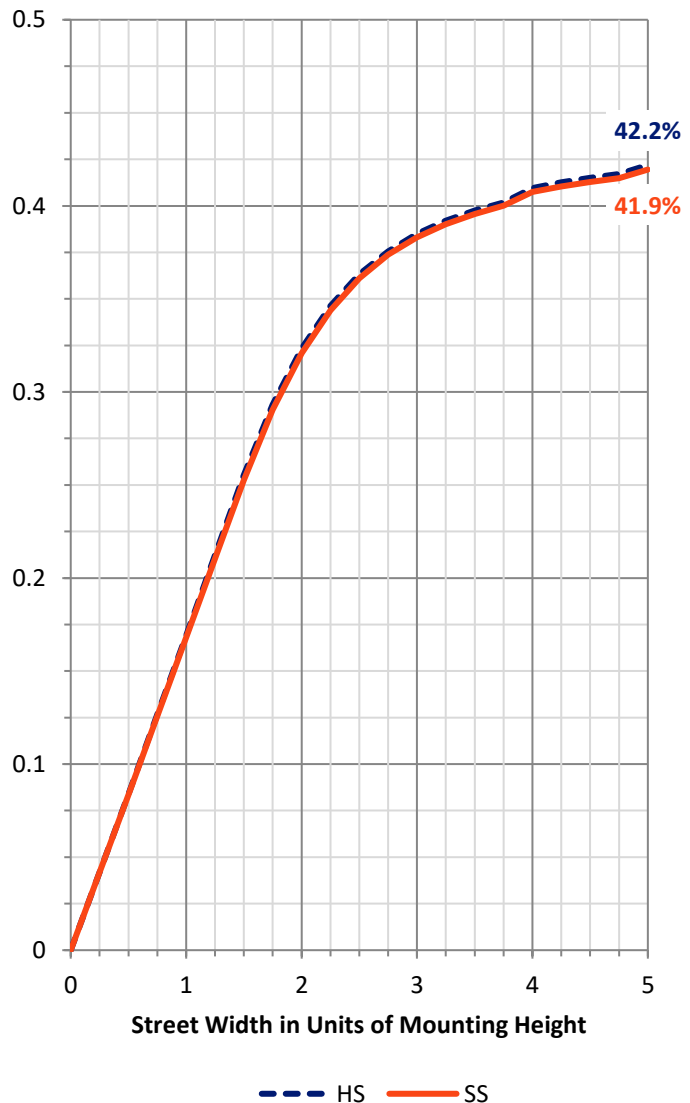
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1376.6	199.1	1575.8
	% Fixture	43.7	6.3	50.0
<b>Street Side</b>	Lumens	1376.6	199.1	1575.8
	% Fixture	43.7	6.3	50.0
<b>Total</b>	Lumens	2753.3	398.3	3151.5
	% Fixture	87.4	12.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.7	0.2
10°-20°	22.1	0.7
20°-30°	48.0	1.5
30°-40°	97.2	3.1
40°-50°	195.9	6.2
50°-60°	622.8	19.8
60°-70°	1004.4	31.9
70°-80°	547.7	17.4
80°-90°	208.6	6.6
90°-100°	125.1	4.0
100°-110°	79.8	2.5
110°-120°	60.7	1.9
120°-130°	51.4	1.6
130°-140°	33.5	1.1
140°-150°	28.1	0.9
150°-160°	12.6	0.4
160°-170°	5.3	0.2
170°-180°	1.8	0.1
0°-90°	2753.3	87.4
0°-180°	3151.5	100.0

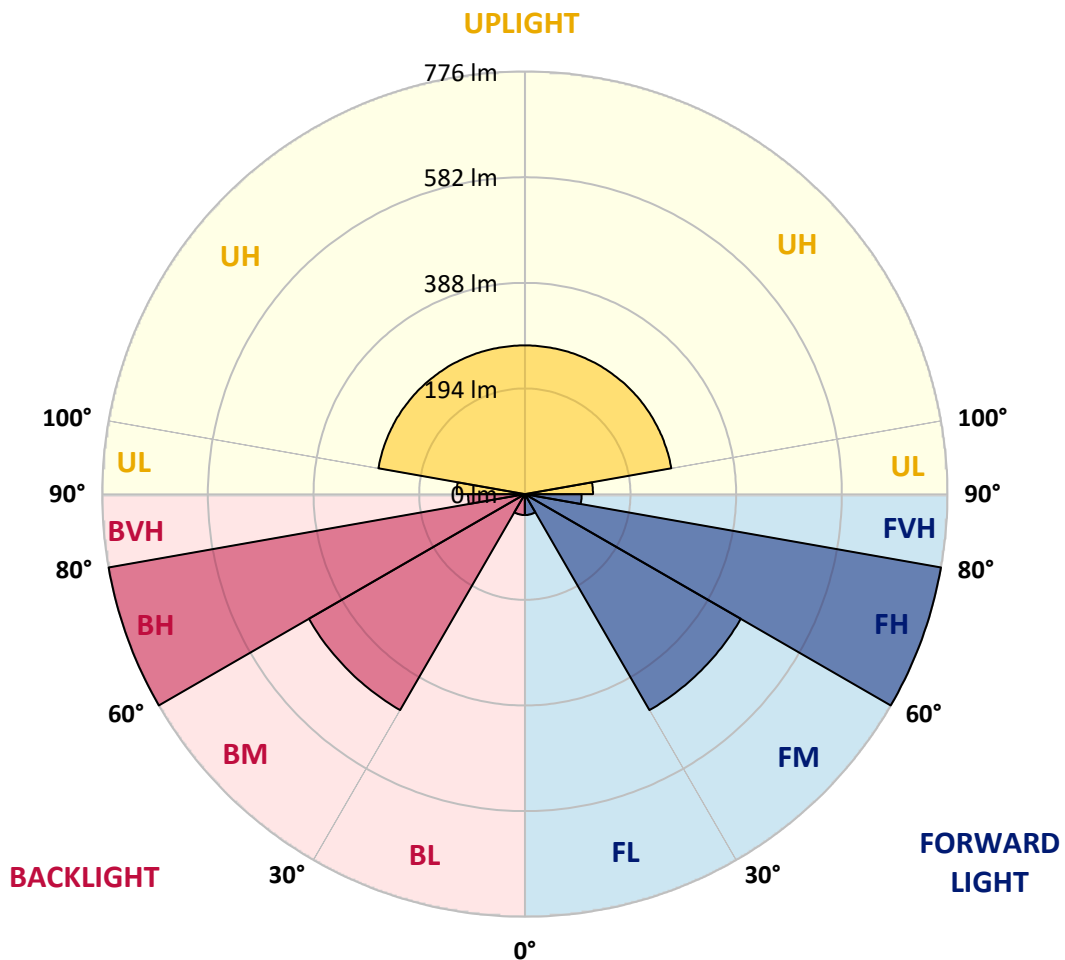


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 CATALOG NUMBER: FFX-CLB-20-750-U-FR-T5-UPLR

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	38.4	1.2			
FM (30°-60°)	457.9	14.5			
FH (60°-80°)	776.0	24.6			G1/1800
FVH (80°-90°)	104.3	3.3			G2/225
BL (0°-30°)	38.4	1.2	B0/110		
BM (30°-60°)	457.9	14.5	B1/1000		
BH (60°-80°)	776.0	24.6	B2/1000		G1/1800
BVH (80°-90°)	104.3	3.3			G2/225
UL (90°-100°)	125.1	4.0		U3/500	
UH (100°-180°)	273.1	8.7		U3/500	

**BUG Rating: B2-U3-G2**  
 Type V Short





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CATALOG NUMBER: FFX-CLB-20-750-U-FR-T5-UPLR

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
2.5°	82.6	83.9	80.3	77.3	76.0	76.4	79.3	82.3	79.3	80.3	80.3
5°	68.5	68.8	68.8	68.1	69.1	67.1	64.8	64.8	67.1	69.8	69.8
7.5°	66.2	67.1	69.8	69.8	70.8	67.5	64.2	64.5	67.8	71.7	72.7
10°	68.1	68.1	67.5	68.1	70.4	70.1	66.5	64.8	67.1	71.1	72.4
12.5°	71.1	71.1	73.1	76.0	76.4	73.4	69.8	69.4	72.1	74.7	74.7
15°	75.4	75.7	76.7	76.4	77.3	76.4	75.4	76.0	77.7	77.7	77.7
17.5°	81.0	81.0	81.0	81.0	81.0	81.3	81.6	81.6	81.6	82.3	82.3
20°	87.2	87.2	86.9	86.6	86.6	86.9	87.2	87.2	87.2	87.9	87.9
22.5°	95.1	94.8	94.1	94.1	94.1	94.5	93.8	93.5	93.1	93.5	93.5
25°	104.3	104.3	103.7	102.7	102.7	102.4	101.4	101.0	100.7	101.4	101.0
27.5°	113.5	113.5	112.6	111.2	111.2	111.2	110.6	109.9	109.3	109.6	109.6
30°	122.1	121.4	121.1	120.1	119.8	120.1	119.5	119.5	118.2	117.8	118.5
32.5°	130.0	129.3	130.0	129.0	128.0	129.0	128.7	128.7	126.7	126.1	126.7
35°	151.7	150.1	151.4	149.1	147.8	148.1	148.8	150.1	148.1	147.1	147.4
37.5°	175.1	174.8	179.0	182.7	182.0	176.4	172.8	173.4	176.1	179.7	179.7
40°	196.8	196.2	197.1	195.8	195.8	195.2	194.8	196.5	191.2	189.9	188.9
42.5°	219.5	219.2	213.6	205.7	204.1	210.6	213.6	215.9	208.3	205.7	203.7
45°	241.9	237.3	236.3	233.7	231.0	235.3	235.0	236.6	233.0	232.7	231.0
47.5°	289.0	280.4	277.5	277.8	272.2	276.8	278.8	284.0	276.5	276.8	276.5
50°	373.9	363.0	368.0	364.7	358.7	364.3	364.0	373.6	361.0	365.7	363.7
52.5°	506.5	491.7	494.7	492.7	486.8	498.3	500.9	515.1	491.1	497.0	495.3
55°	698.4	682.3	688.9	665.2	658.9	681.6	690.2	706.6	674.7	678.0	676.4
57.5°	881.4	880.4	891.6	874.8	869.2	885.3	877.4	891.9	874.8	887.0	883.0
60°	1006.1	1008.8	1020.0	1024.9	1015.0	1023.6	1004.5	1015.4	1010.1	1027.9	1026.2
62.5°	1071.0	1079.5	1072.9	1073.3	1062.4	1069.0	1065.4	1071.6	1070.3	1072.0	1070.3
65°	1072.3	1082.8	1068.3	1061.8	1057.1	1059.8	1066.0	1066.0	1062.1	1050.2	1052.9
67.5°	1002.2	1018.0	1001.9	992.6	995.3	994.3	998.6	993.0	990.7	973.2	973.6
70°	829.7	855.1	831.4	822.8	829.7	834.0	833.7	829.1	825.4	803.7	810.0
72.5°	629.9	652.3	631.3	628.0	634.6	641.1	635.5	641.1	635.2	625.3	628.3
75°	475.6	494.7	494.7	507.2	509.2	505.5	490.1	496.3	500.3	500.6	503.6
77.5°	349.9	369.9	380.5	400.9	399.9	393.6	374.9	382.1	389.7	394.9	398.6
80°	248.8	264.0	279.4	293.9	295.9	290.6	279.1	283.4	288.0	291.6	293.6
82.5°	192.9	199.8	196.8	195.2	197.8	205.4	208.0	210.6	204.1	199.8	201.4
85°	168.2	168.8	174.1	177.7	178.7	178.7	176.1	178.1	179.7	184.0	184.0
87.5°	153.4	154.0	167.2	170.8	172.1	170.5	167.2	168.5	169.8	172.5	172.5
90°	136.3	138.2	151.4	154.4	155.7	153.0	152.1	153.0	151.4	152.4	152.4
92.5°	126.7	126.7	133.0	131.6	131.3	131.6	132.0	133.0	131.3	130.7	130.7
95°	115.9	117.5	115.9	117.2	116.8	115.2	114.5	115.2	114.2	114.2	114.9
97.5°	97.1	97.4	94.5	95.4	95.4	94.1	92.5	93.1	92.2	92.8	93.1
100°	90.8	89.9	84.9	84.3	83.9	82.9	82.0	82.0	81.6	81.3	81.6
102.5°	88.9	88.9	82.3	81.0	80.3	78.7	77.3	77.3	77.3	77.3	77.7
105°	81.3	83.6	78.7	77.7	76.7	74.7	72.7	72.4	73.1	72.4	73.4
107.5°	73.7	75.7	73.1	73.1	72.1	70.1	68.8	68.5	68.8	68.1	68.8
110°	69.4	70.4	67.5	67.5	66.8	65.2	64.8	64.5	64.5	63.5	64.2



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 CATALOG NUMBER: FFX-CLB-20-750-U-FR-T5-UPLR

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	64.2	64.2	61.9	61.2	61.2	60.2	59.9	59.6	59.6	59.6	59.9
115°	63.9	63.5	59.9	57.6	57.3	56.9	57.3	56.9	56.9	56.6	56.6
117.5°	78.0	74.7	62.5	56.9	56.9	57.3	58.6	57.6	55.3	55.3	55.0
120°	84.3	84.9	72.1	66.2	64.8	63.2	62.9	62.2	59.9	59.6	60.9
122.5°	74.4	77.7	69.8	67.5	66.2	64.2	62.9	62.5	62.5	60.9	63.2
125°	57.9	60.9	56.9	56.6	56.3	56.6	56.0	56.0	56.6	55.6	56.0
127.5°	49.7	51.0	49.4	49.4	49.0	48.7	48.1	48.4	48.1	48.4	48.7
130°	47.7	48.7	47.1	46.4	46.4	46.7	46.7	46.7	45.7	45.1	45.4
132.5°	47.4	47.1	44.4	43.1	43.1	45.4	46.4	46.4	44.1	42.5	42.5
135°	42.8	43.1	42.8	41.1	41.5	42.1	43.1	43.4	41.1	40.2	40.5
137.5°	41.1	42.1	42.5	41.8	41.8	41.1	40.8	41.1	40.5	40.8	40.8
140°	41.1	41.5	42.5	43.1	42.5	41.8	41.8	41.8	42.1	43.1	43.8
142.5°	42.1	42.5	42.1	41.8	42.8	44.4	45.7	45.7	44.8	44.1	44.4
145°	48.4	49.4	49.4	48.4	49.0	48.4	48.4	47.7	47.7	47.7	48.1
147.5°	46.1	45.7	46.4	47.4	46.4	46.1	46.1	46.4	47.1	47.4	47.7
150°	36.2	35.2	35.9	37.8	37.5	37.5	37.5	37.8	38.2	38.2	38.5
152.5°	28.6	28.6	29.3	29.3	29.6	29.6	29.3	29.3	29.3	29.6	29.6
155°	25.7	25.3	26.0	27.0	26.3	26.3	26.3	26.3	26.3	26.3	26.7
157.5°	22.4	22.1	22.1	22.4	22.4	22.4	22.4	22.7	22.7	22.4	22.7
160°	20.4	20.4	20.1	20.1	20.1	20.4	20.7	20.7	20.4	20.1	20.1
162.5°	19.4	19.4	18.8	18.4	18.4	18.8	19.4	19.4	18.8	18.4	18.4
165°	19.4	19.1	18.1	17.4	17.4	18.1	19.1	19.1	18.1	17.4	17.4
167.5°	19.1	19.1	18.4	17.8	17.8	18.4	18.8	19.1	18.8	18.1	17.8
170°	18.4	18.4	18.8	18.8	18.4	18.4	18.4	18.4	18.8	18.8	18.8
172.5°	19.1	18.8	19.1	19.4	19.4	19.1	18.8	18.8	19.1	19.4	19.4
175°	19.4	19.4	19.1	19.1	19.1	18.8	18.8	18.8	19.1	19.4	19.1
177.5°	17.4	17.4	17.1	17.4	17.4	17.4	17.1	17.4	17.4	17.4	17.8
180°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5



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: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

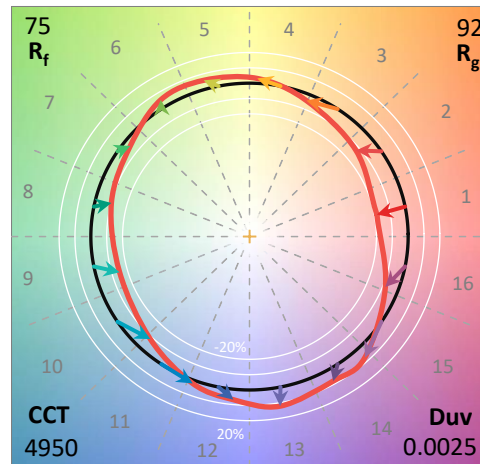
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-5  
 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-100-750-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 4950  
 CIE u': 0.2102  
 CIE v': 0.4882  
 Duv: 0.0025  
 CIE x: 0.3471  
 CIE y: 0.3583  
 CIE z: 0.2946  
 Peak Wavelength (nm): 452  
 Dominant Wavelength (nm): 571  
 Purity: 11.64963  
 Rf: 74.8  
 Rg: 92.4

CRI (Ra):	73.0		
R1:	69.1	R9:	-35.4
R2:	80.1	R10:	51.9
R3:	87.3	R11:	66.1
R4:	70.6	R12:	40.1
R5:	69.4	R13:	71.5
R6:	71.2	R14:	93.0
R7:	82.5	R15:	62.2
R8:	53.6		



**Test Conditions**

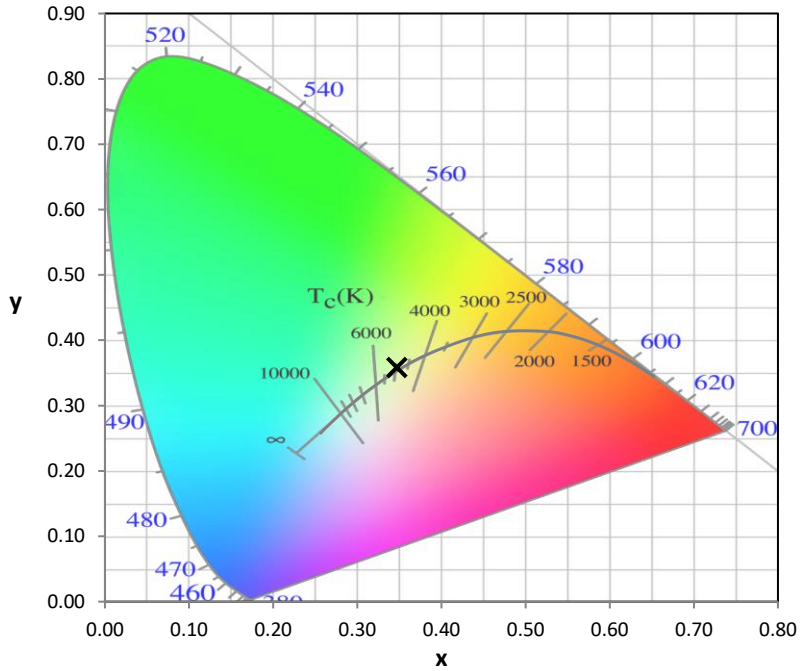
Stabilization Time: 0.803355M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

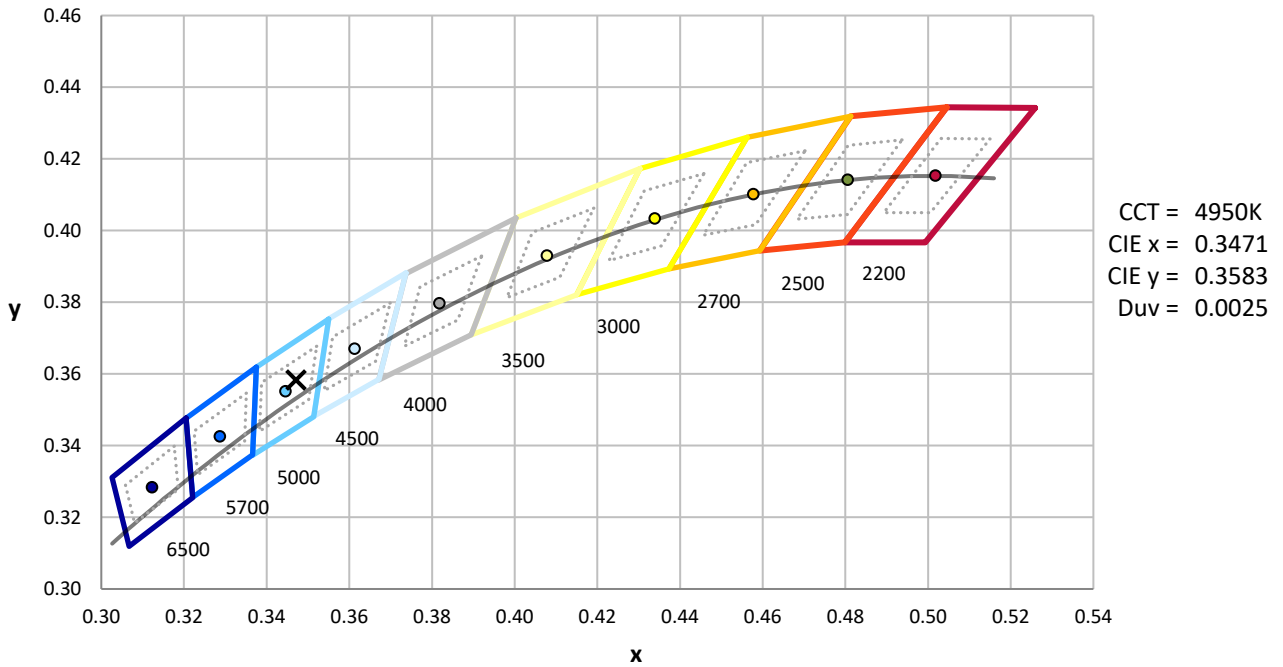
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-5

CIE 1931 Chromaticity Diagram



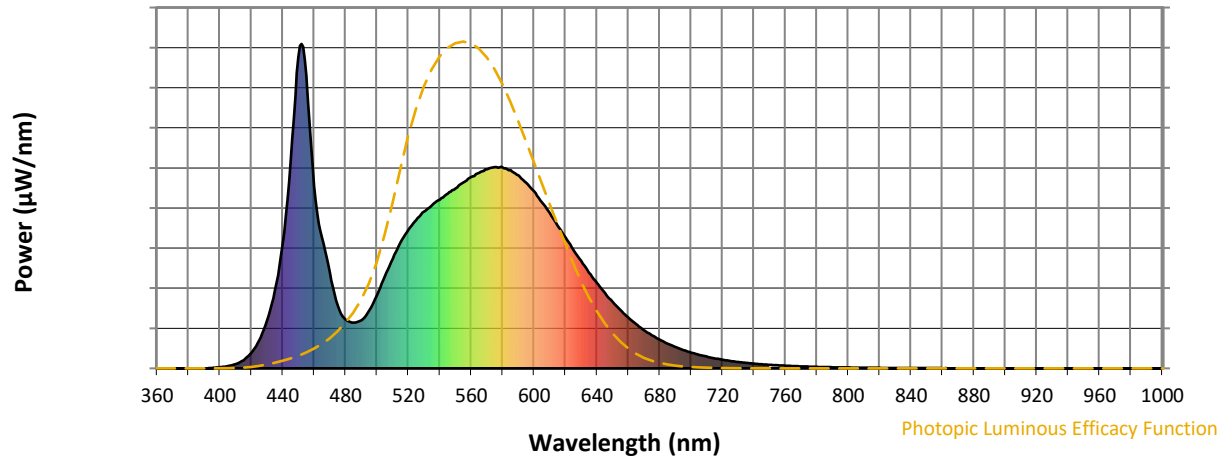
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

**Photopic Flux vs. Wavelength**

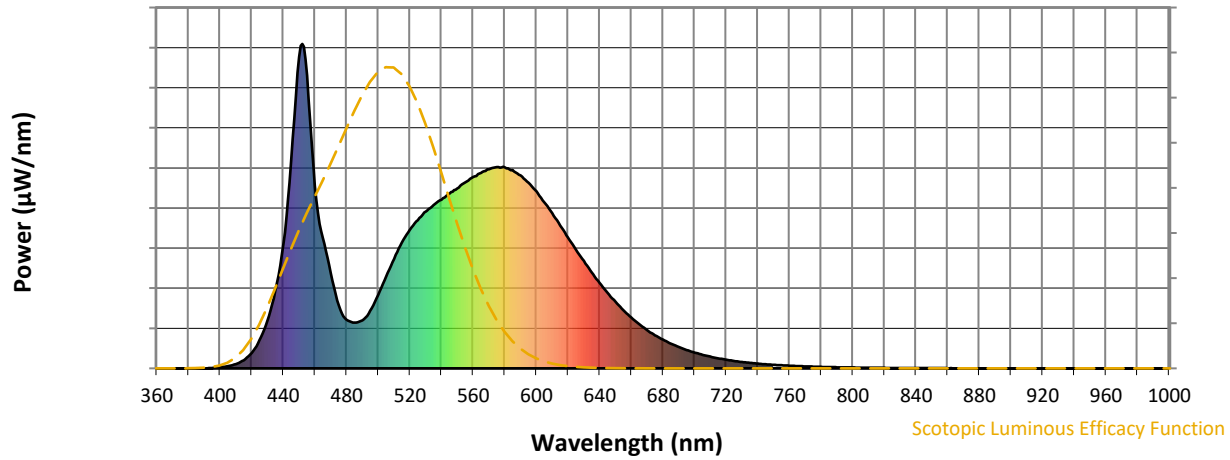


**Photopic Lumens: NR**

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2406-133-5

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

**S/P: 1.8**

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2406-133-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2406-133-5

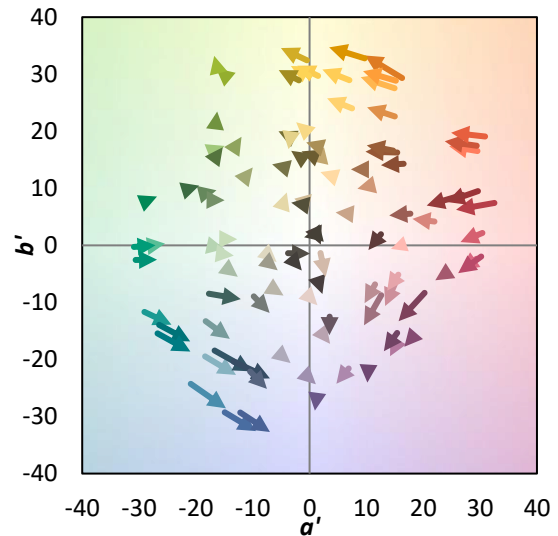
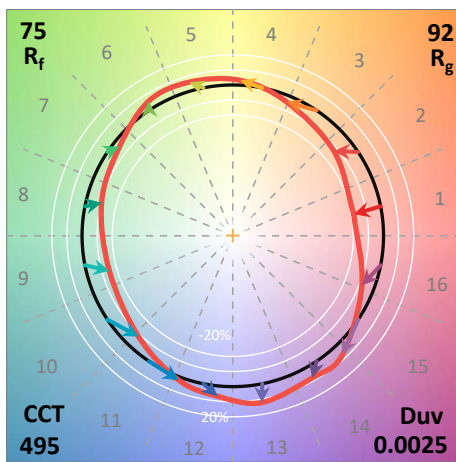
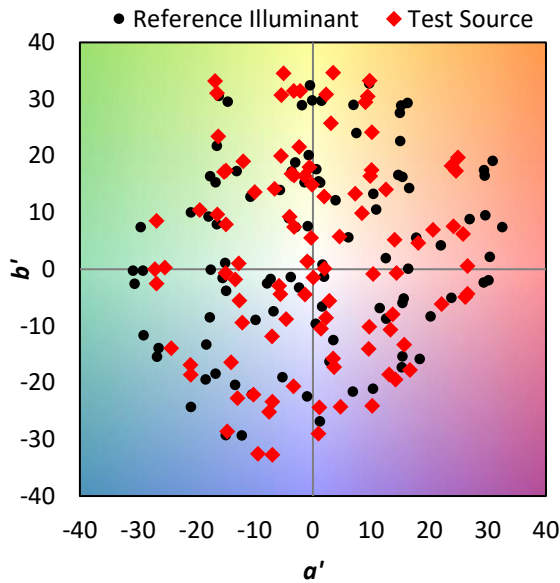
TM-30-18

**Summary**

$R_f = 74.8$   
 $R_g = 92.4$   
 CIE  $R_a = 73.0$   
 $R_9 = -35.4$



**Color Vector Graphics**



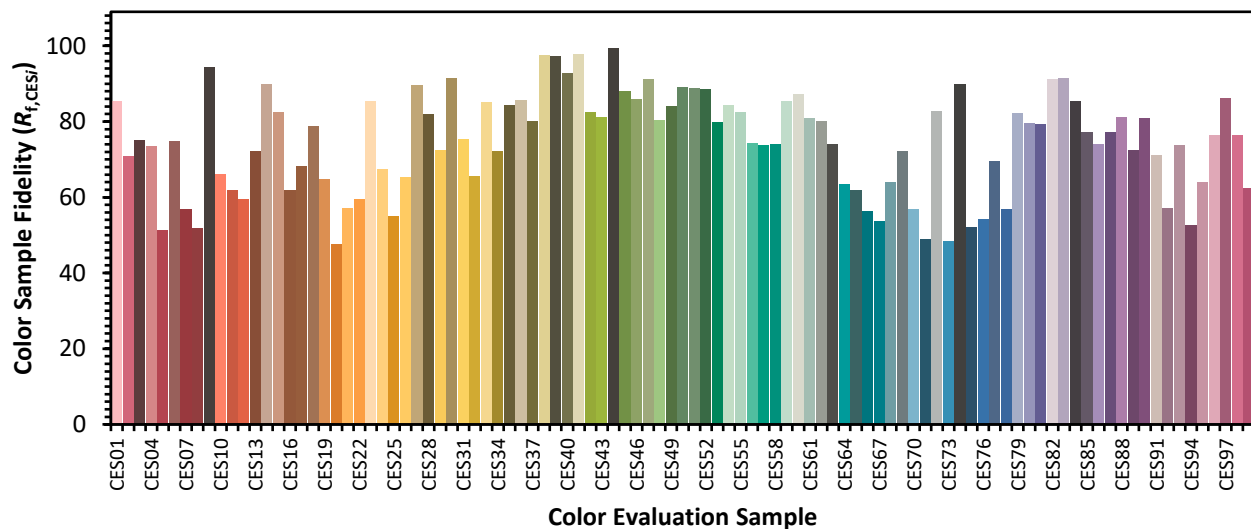


REPORT NUMBER: SP1-2406-133-5

TM-30-18

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

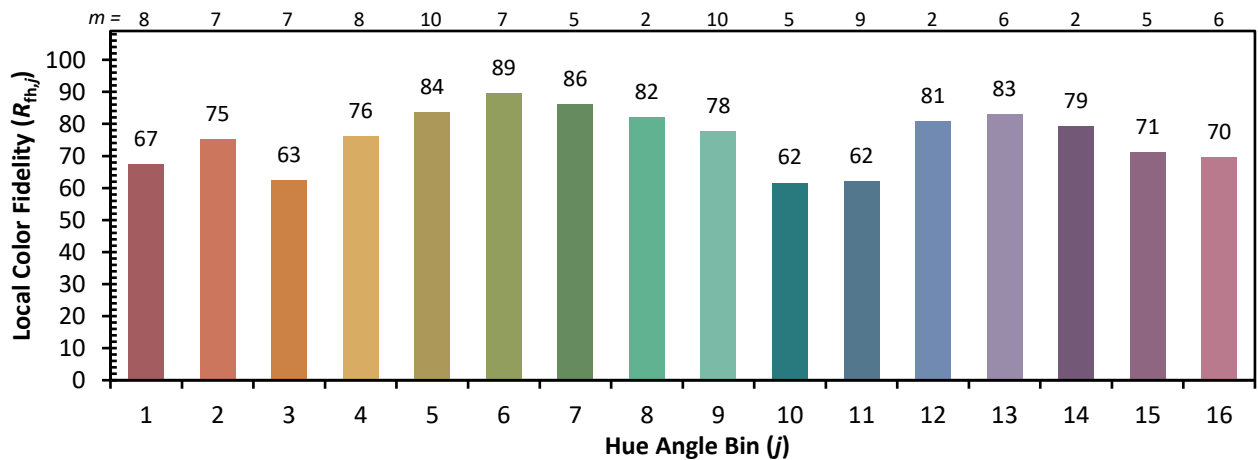
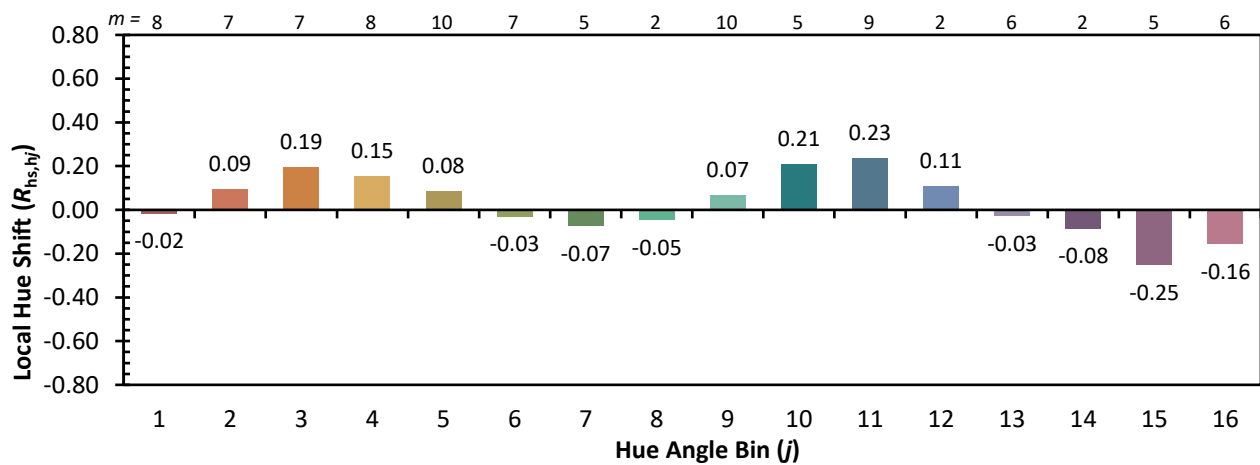
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CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 91
CES08 = 38	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 72	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 84	CES60 = 87	CES85 = 77
CES11 = 56	CES36 = 86	CES61 = 81	CES86 = 74
CES12 = 62	CES37 = 80	CES62 = 80	CES87 = 77
CES13 = 41	CES38 = 98	CES63 = 74	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 93	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 57
CES18 = 55	CES43 = 81	CES68 = 64	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 53
CES20 = 64	CES45 = 88	CES70 = 57	CES95 = 64
CES21 = 85	CES46 = 86	CES71 = 49	CES96 = 76
CES22 = 77	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 48	CES98 = 77
CES24 = 90	CES49 = 84	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 52	



REPORT NUMBER: SP1-2406-133-5

TM-30-18

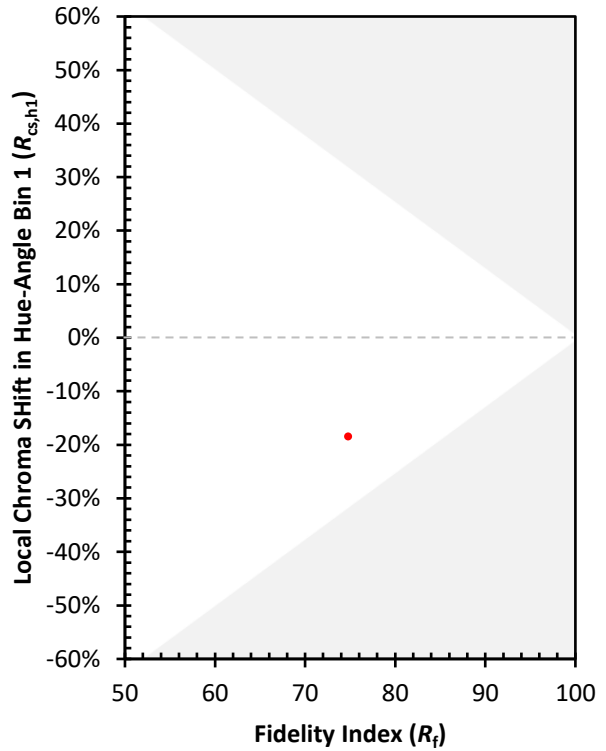
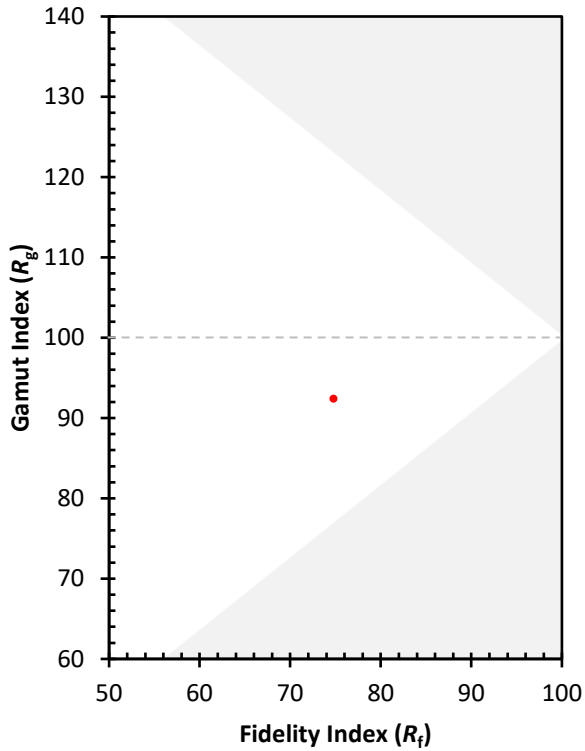
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)