

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: P856187

Luminaire Tested: **FFX-CLB-50-750-U-FR-T5-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856187
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-750-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

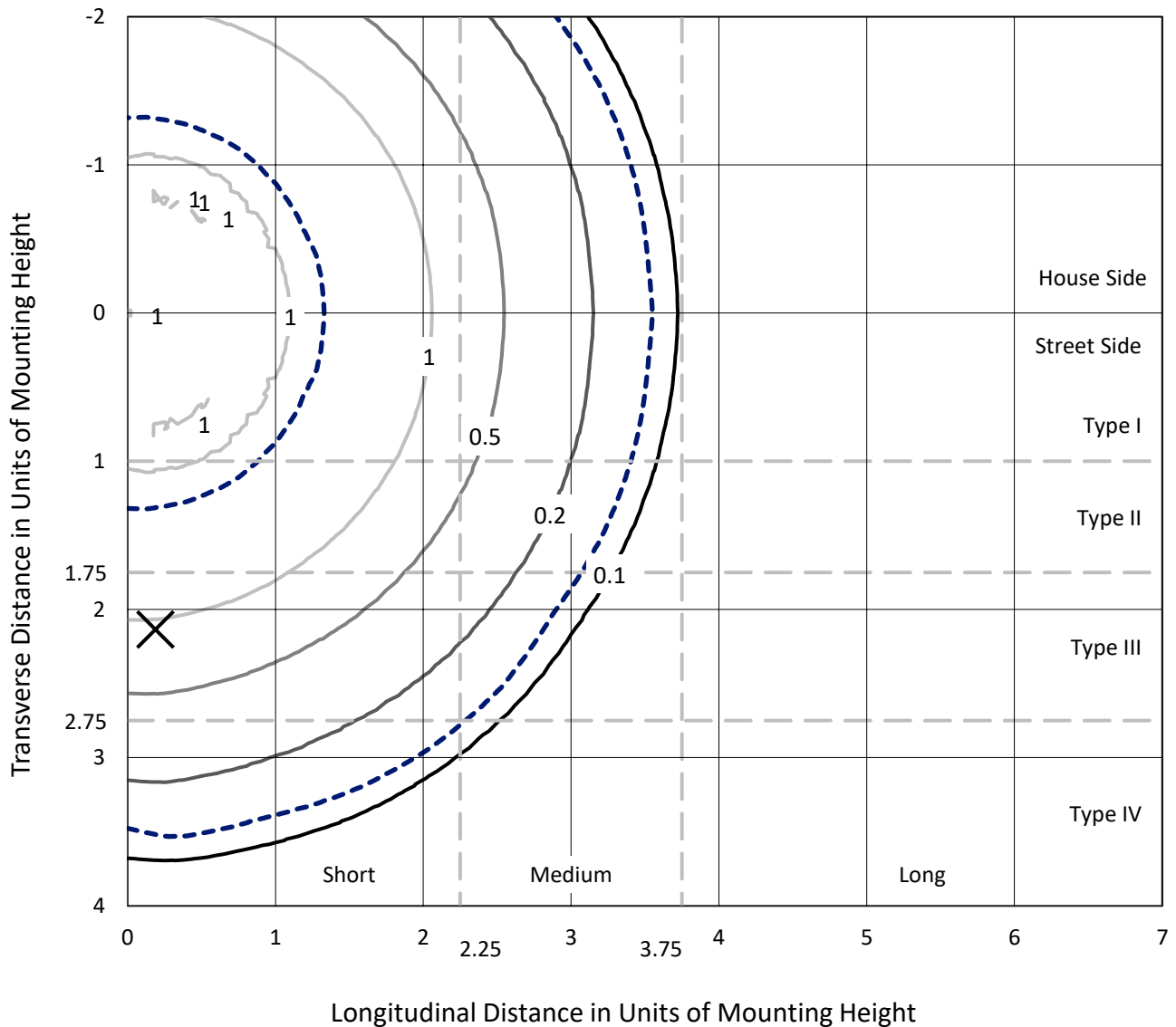
Lumens per Lamp: N/A
Luminaire Lumens: 8008.2 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G3

Input Watts (W): 50.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.0%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P856187
 CATALOG NUMBER: FFX-CLB-50-750-U-FR-T5-UPLR

Iso-Footcandle Lines of Horizontal Illumination

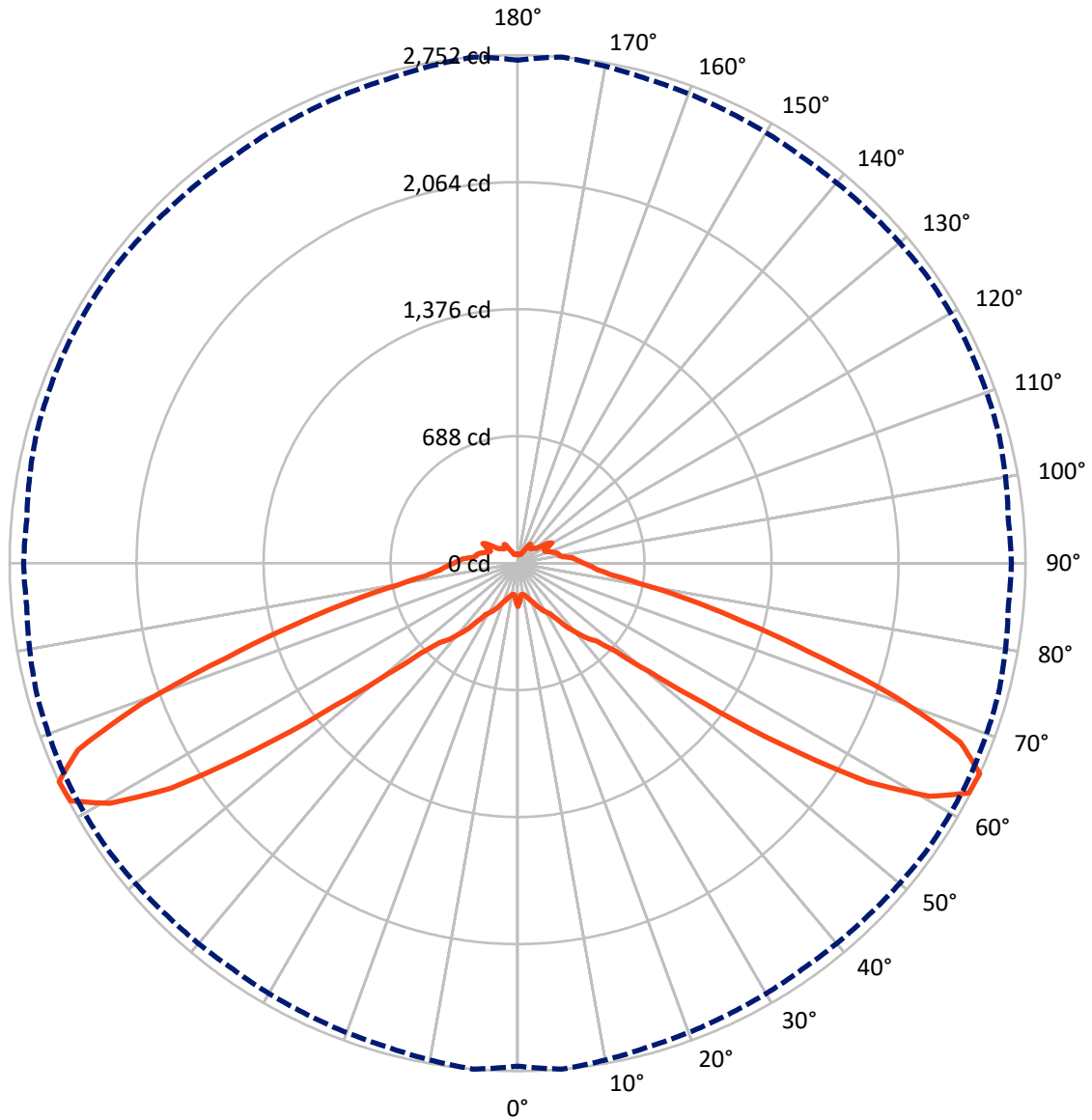
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

REPORT NUMBER: P856187
CATALOG NUMBER: FFX-CLB-50-750-U-FR-T5-UPLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P856187
 CATALOG NUMBER: FFX-CLB-50-750-U-FR-T5-UPLR

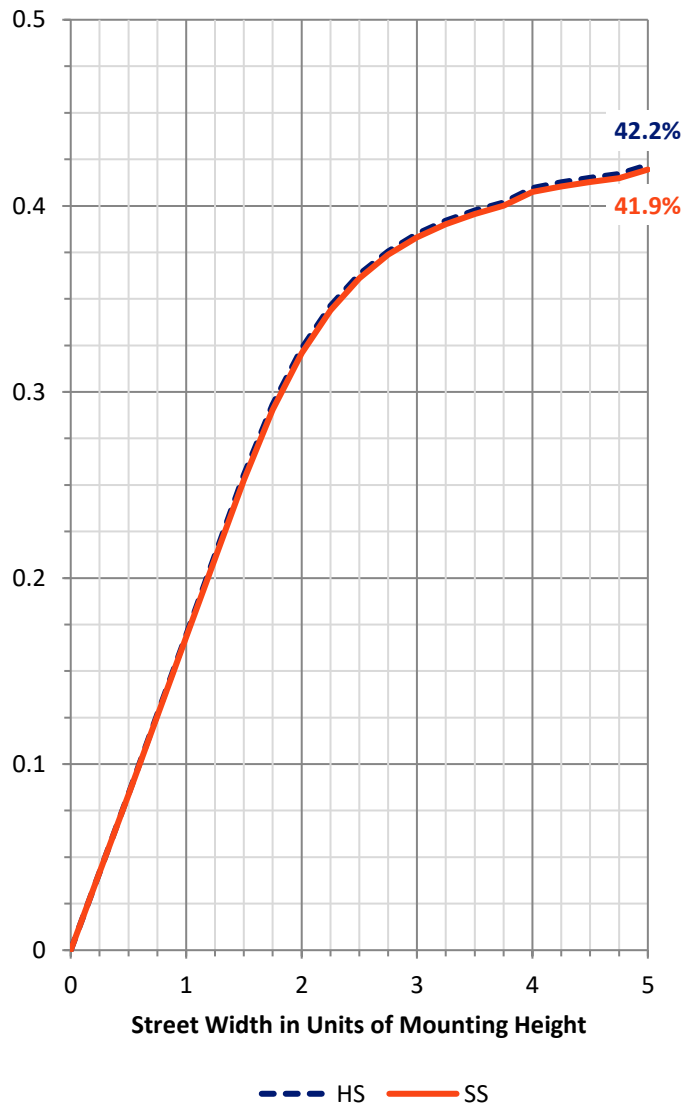
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3498.1	506.0	4004.1
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	3498.1	506.0	4004.1
	% Fixture	43.7	6.3	50.0
Total	Lumens	6996.2	1012.0	8008.2
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	0.2
10°-20°	56.2	0.7
20°-30°	121.9	1.5
30°-40°	246.9	3.1
40°-50°	497.8	6.2
50°-60°	1582.6	19.8
60°-70°	2552.1	31.9
70°-80°	1391.8	17.4
80°-90°	529.9	6.6
90°-100°	318.0	4.0
100°-110°	202.8	2.5
110°-120°	154.3	1.9
120°-130°	130.5	1.6
130°-140°	85.0	1.1
140°-150°	71.3	0.9
150°-160°	32.0	0.4
160°-170°	13.6	0.2
170°-180°	4.5	0.1
0°-90°	6996.2	87.4
0°-180°	8008.2	100.0



REPORT NUMBER: P856187

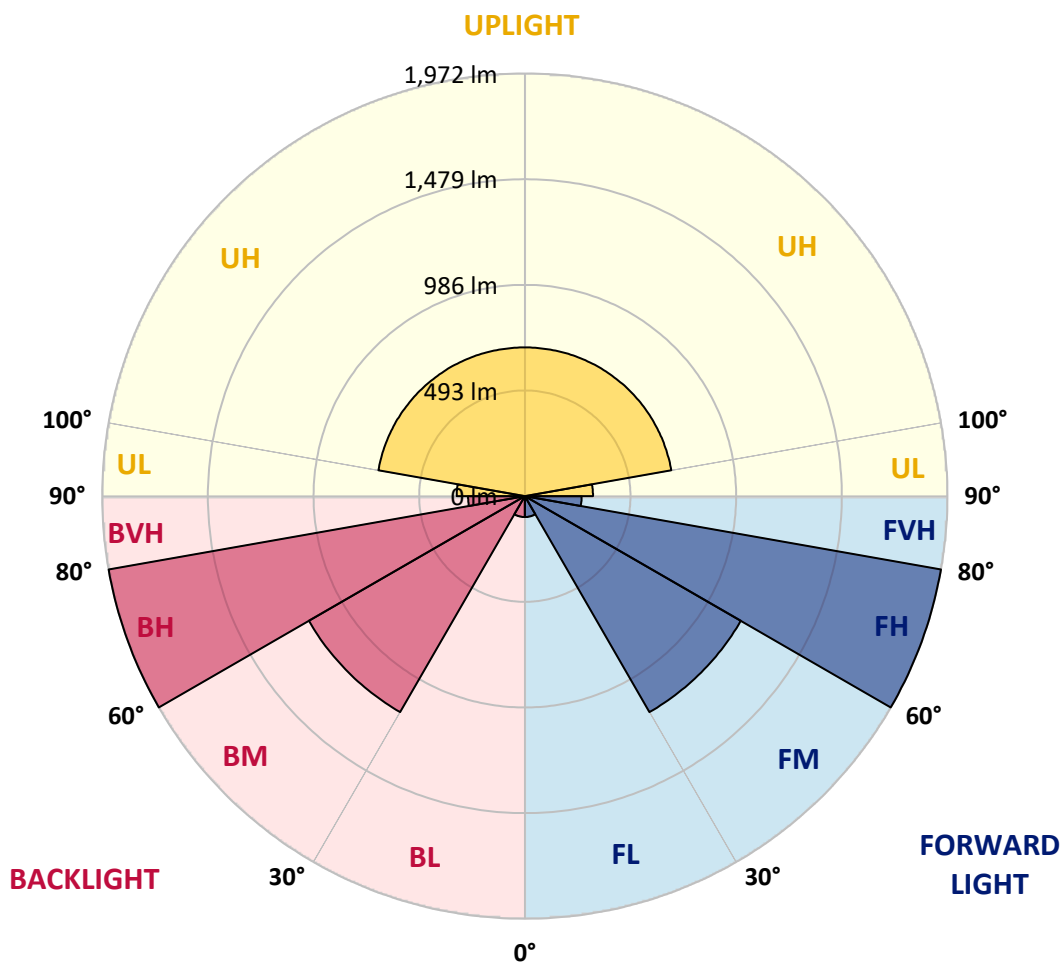
CATALOG NUMBER: FFX-CLB-50-750-U-FR-T5-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	97.6	1.2			
FM (30°-60°)	1163.6	14.5			
FH (60°-80°)	1972.0	24.6			G2/5000
FVH (80°-90°)	265.0	3.3			G3/500
BL (0°-30°)	97.6	1.2	B0/110		
BM (30°-60°)	1163.6	14.5	B2/2500		
BH (60°-80°)	1972.0	24.6	B3/2500		G2/5000
BVH (80°-90°)	265.0	3.3			G3/500
UL (90°-100°)	318.0	4.0		U3/500	
UH (100°-180°)	694.0	8.7		U4/1000	

BUG Rating: B3-U4-G3

Type V Short





REPORT NUMBER: P856187

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0
2.5°	209.9	213.3	204.1	196.5	193.2	194.0	201.6	209.1	201.6	204.1	204.1
5°	174.0	174.8	174.8	173.1	175.6	170.6	164.8	164.8	170.6	177.3	177.3
7.5°	168.1	170.6	177.3	177.3	179.8	171.4	163.1	163.9	172.3	182.3	184.8
10°	173.1	173.1	171.4	173.1	179.0	178.1	168.9	164.8	170.6	180.6	184.0
12.5°	180.6	180.6	185.7	193.2	194.0	186.5	177.3	176.5	183.2	189.8	189.8
15°	191.5	192.4	194.9	194.0	196.5	194.0	191.5	193.2	197.4	197.4	197.4
17.5°	205.7	205.7	205.7	205.7	205.7	206.6	207.4	207.4	207.4	209.1	209.1
20°	221.6	221.6	220.8	220.0	220.0	220.8	221.6	221.6	221.6	223.3	223.3
22.5°	241.7	240.9	239.2	239.2	239.2	240.0	238.4	237.5	236.7	237.5	237.5
25°	265.1	265.1	263.4	260.9	260.9	260.1	257.6	256.8	255.9	257.6	256.8
27.5°	288.5	288.5	286.0	282.7	282.7	282.7	281.0	279.3	277.7	278.5	278.5
30°	310.3	308.6	307.8	305.3	304.4	305.3	303.6	303.6	300.2	299.4	301.1
32.5°	330.3	328.7	330.3	327.8	325.3	327.8	327.0	327.0	322.0	320.3	322.0
35°	385.5	381.4	384.7	378.9	375.5	376.3	378.0	381.4	376.3	373.8	374.7
37.5°	444.9	444.1	455.0	464.2	462.5	448.3	439.1	440.7	447.4	456.6	456.6
40°	500.1	498.5	501.0	497.6	497.6	495.9	495.1	499.3	485.9	482.6	480.1
42.5°	557.8	557.0	542.8	522.7	518.5	535.2	542.8	548.6	529.4	522.7	517.7
45°	614.7	603.0	600.5	593.8	587.1	598.0	597.1	601.3	592.1	591.3	587.1
47.5°	734.3	712.6	705.0	705.9	691.6	703.4	708.4	721.8	702.5	703.4	702.5
50°	950.1	922.5	935.0	926.7	911.6	925.8	925.0	949.2	917.5	929.2	924.1
52.5°	1287.1	1249.5	1257.0	1252.0	1236.9	1266.2	1272.9	1308.9	1247.8	1262.9	1258.7
55°	1774.7	1733.7	1750.4	1690.2	1674.3	1732.0	1753.8	1795.6	1714.5	1722.8	1718.7
57.5°	2239.7	2237.2	2265.6	2223.0	2208.7	2249.7	2229.6	2266.4	2223.0	2253.9	2243.9
60°	2556.7	2563.3	2591.8	2604.3	2579.2	2601.0	2552.5	2580.1	2566.7	2611.8	2607.7
62.5°	2721.4	2743.2	2726.4	2727.3	2699.7	2716.4	2707.2	2723.1	2719.7	2723.9	2719.7
65°	2724.8	2751.5	2714.7	2698.0	2686.3	2693.0	2708.9	2708.9	2698.8	2668.7	2675.4
67.5°	2546.6	2586.8	2545.8	2522.4	2529.1	2526.5	2537.4	2523.2	2517.3	2473.0	2473.9
70°	2108.4	2172.8	2112.6	2090.8	2108.4	2119.3	2118.4	2106.7	2097.5	2042.3	2058.2
72.5°	1600.7	1657.6	1604.1	1595.7	1612.4	1629.2	1614.9	1629.2	1614.1	1589.0	1596.5
75°	1208.5	1257.0	1257.0	1288.8	1293.8	1284.6	1245.3	1261.2	1271.2	1272.1	1279.6
77.5°	889.0	940.0	966.8	1018.6	1016.1	1000.2	952.6	971.0	990.2	1003.6	1012.8
80°	632.3	670.7	710.0	746.8	751.9	738.5	709.2	720.1	731.8	741.0	746.0
82.5°	490.1	507.7	500.1	495.9	502.6	521.9	528.6	535.2	518.5	507.7	511.8
85°	427.4	429.0	442.4	451.6	454.1	454.1	447.4	452.5	456.6	467.5	467.5
87.5°	389.7	391.4	424.9	434.1	437.4	433.2	424.9	428.2	431.5	438.2	438.2
90°	346.2	351.3	384.7	392.2	395.6	388.9	386.4	388.9	384.7	387.2	387.2
92.5°	322.0	322.0	337.9	334.5	333.7	334.5	335.4	337.9	333.7	332.0	332.0
95°	294.4	298.6	294.4	297.7	296.9	292.7	291.0	292.7	290.2	290.2	291.9
97.5°	246.7	247.6	240.0	242.5	242.5	239.2	235.0	236.7	234.2	235.8	236.7
100°	230.8	228.3	215.8	214.1	213.3	210.8	208.2	208.2	207.4	206.6	207.4
102.5°	225.8	225.8	209.1	205.7	204.1	199.9	196.5	196.5	196.5	196.5	197.4
105°	206.6	212.4	199.9	197.4	194.9	189.8	184.8	184.0	185.7	184.0	186.5
107.5°	187.3	192.4	185.7	185.7	183.2	178.1	174.8	174.0	174.8	173.1	174.8
110°	176.5	179.0	171.4	171.4	169.8	165.6	164.8	163.9	163.9	161.4	163.1



REPORT NUMBER: P856187

CATALOG NUMBER: FFX-CLB-50-750-U-FR-T5-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	163.1	163.1	157.2	155.6	155.6	153.0	152.2	151.4	151.4	151.4	152.2
115°	162.2	161.4	152.2	146.4	145.5	144.7	145.5	144.7	144.7	143.8	143.8
117.5°	198.2	189.8	158.9	144.7	144.7	145.5	148.9	146.4	140.5	140.5	139.7
120°	214.1	215.8	183.2	168.1	164.8	160.6	159.7	158.1	152.2	151.4	154.7
122.5°	189.0	197.4	177.3	171.4	168.1	163.1	159.7	158.9	158.9	154.7	160.6
125°	147.2	154.7	144.7	143.8	143.0	143.8	142.2	142.2	143.8	141.3	142.2
127.5°	126.3	129.6	125.4	125.4	124.6	123.8	122.1	122.9	122.1	122.9	123.8
130°	121.3	123.8	119.6	117.9	117.9	118.8	118.8	118.8	116.2	114.6	115.4
132.5°	120.4	119.6	112.9	109.6	109.6	115.4	117.9	117.9	112.1	107.9	107.9
135°	108.7	109.6	108.7	104.5	105.4	107.0	109.6	110.4	104.5	102.0	102.9
137.5°	104.5	107.0	107.9	106.2	106.2	104.5	103.7	104.5	102.9	103.7	103.7
140°	104.5	105.4	107.9	109.6	107.9	106.2	106.2	106.2	107.0	109.6	111.2
142.5°	107.0	107.9	107.0	106.2	108.7	112.9	116.2	116.2	113.7	112.1	112.9
145°	122.9	125.4	125.4	122.9	124.6	122.9	122.9	121.3	121.3	121.3	122.1
147.5°	117.1	116.2	117.9	120.4	117.9	117.1	117.1	117.9	119.6	120.4	121.3
150°	92.0	89.5	91.2	96.2	95.3	95.3	95.3	96.2	97.0	97.0	97.9
152.5°	72.8	72.8	74.4	74.4	75.3	75.3	74.4	74.4	74.4	75.3	75.3
155°	65.2	64.4	66.1	68.6	66.9	66.9	66.9	66.9	66.9	66.9	67.7
157.5°	56.9	56.0	56.0	56.9	56.9	56.9	56.9	57.7	57.7	56.9	57.7
160°	51.9	51.9	51.0	51.0	51.0	51.9	52.7	52.7	51.9	51.0	51.0
162.5°	49.3	49.3	47.7	46.8	46.8	47.7	49.3	49.3	47.7	46.8	46.8
165°	49.3	48.5	46.0	44.3	44.3	46.0	48.5	48.5	46.0	44.3	44.3
167.5°	48.5	48.5	46.8	45.2	45.2	46.8	47.7	48.5	47.7	46.0	45.2
170°	46.8	46.8	47.7	47.7	46.8	46.8	46.8	46.8	47.7	47.7	47.7
172.5°	48.5	47.7	48.5	49.3	49.3	48.5	47.7	47.7	48.5	49.3	49.3
175°	49.3	49.3	48.5	48.5	48.5	47.7	47.7	47.7	48.5	49.3	48.5
177.5°	44.3	44.3	43.5	44.3	44.3	44.3	43.5	44.3	44.3	44.3	45.2
180°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8

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.

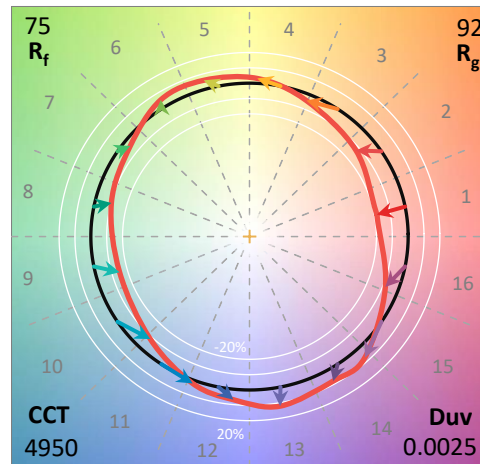
Test Information

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

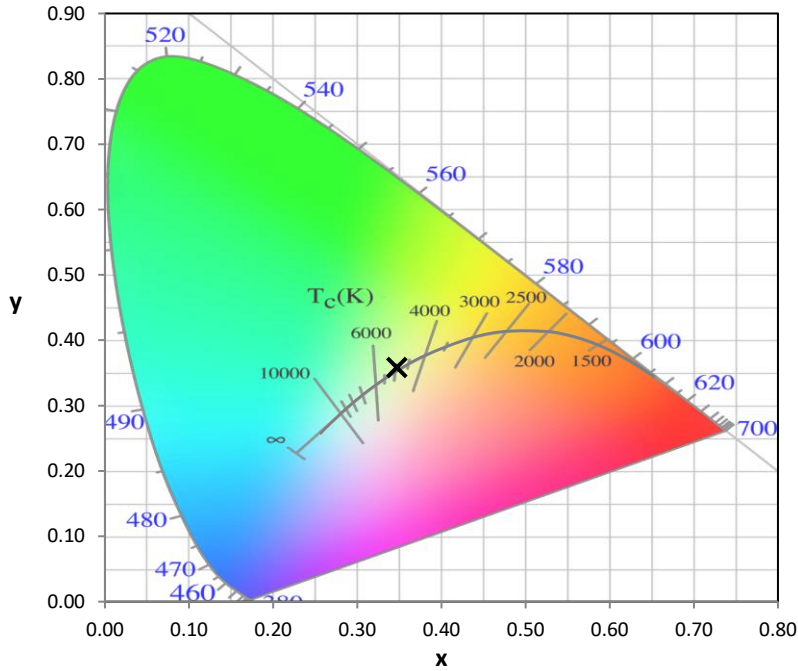
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

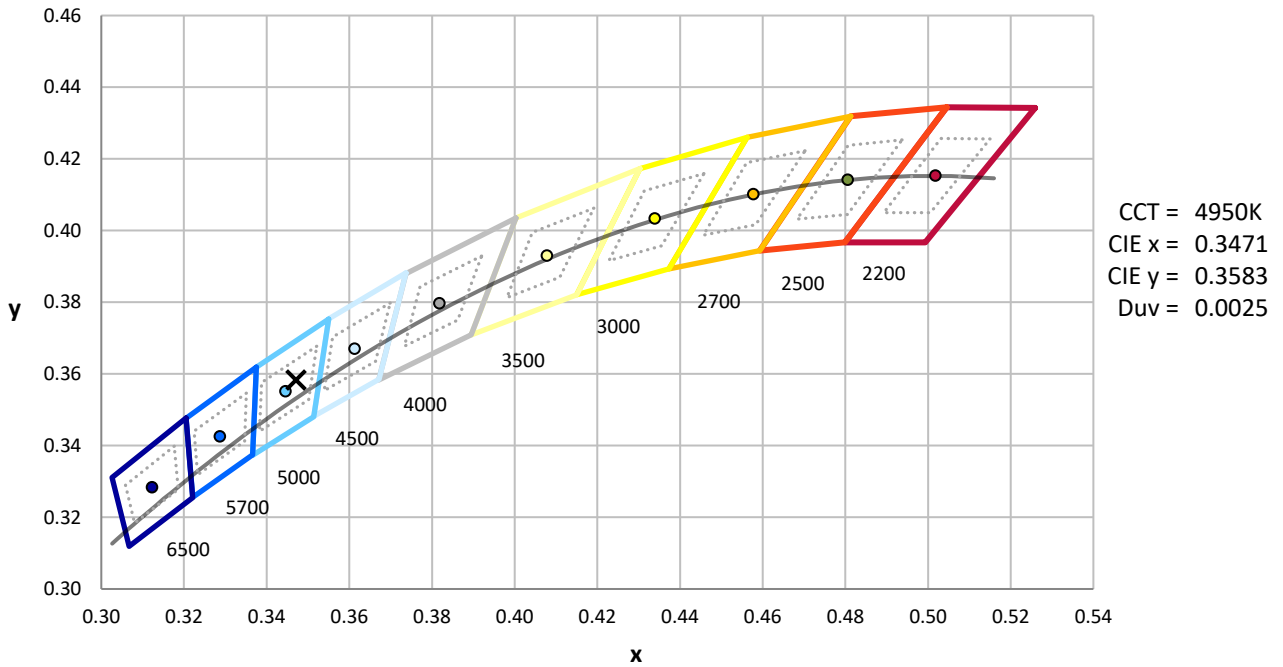
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



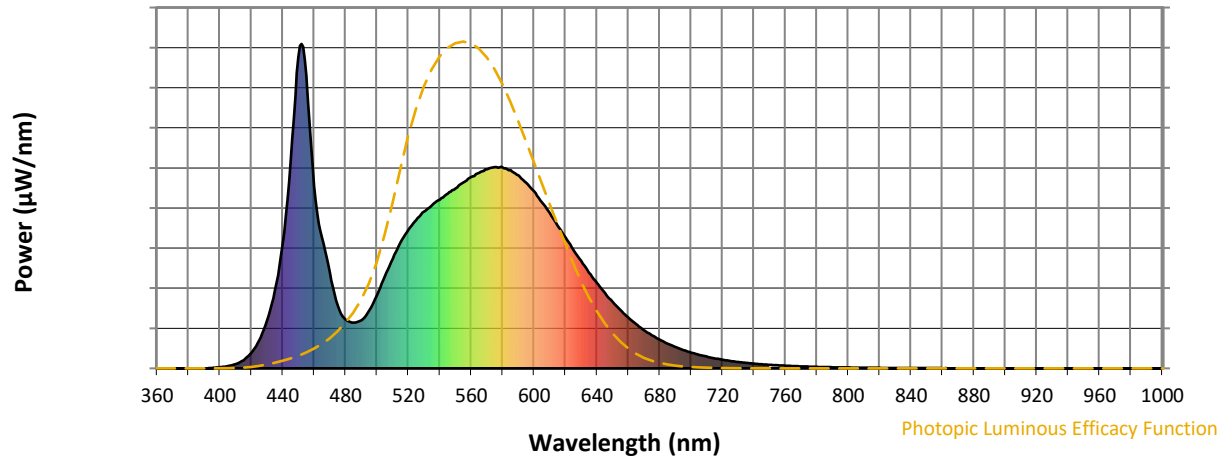
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

Photopic Flux vs. Wavelength

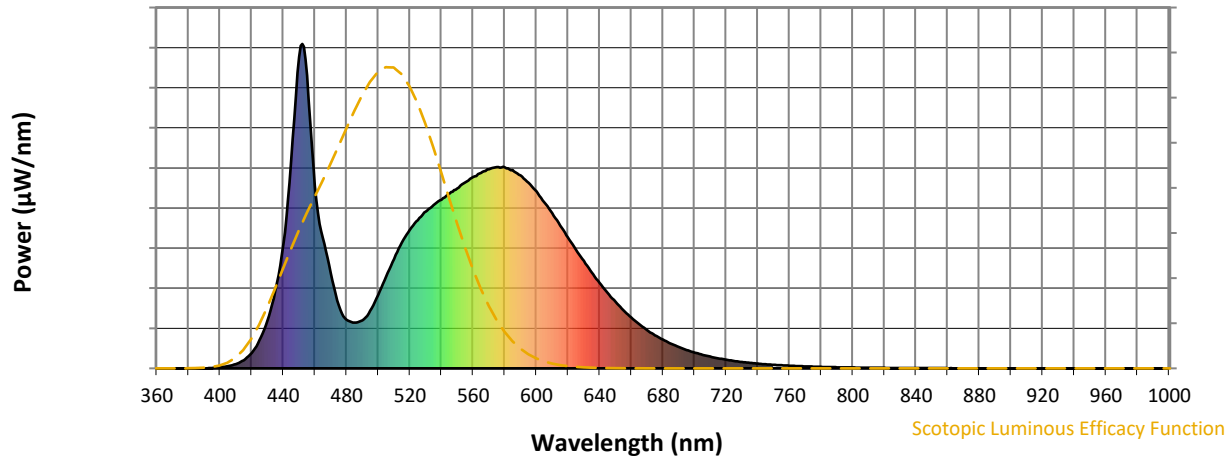


Photopic Lumens: NR

λ (nm)	Power W [^] /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	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 [^] /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	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 [^] /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	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

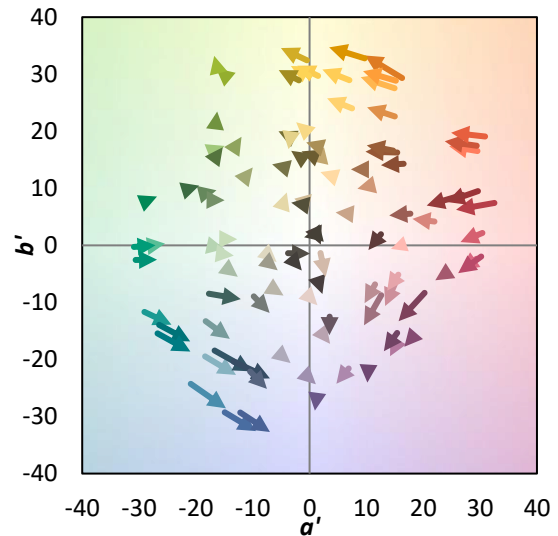
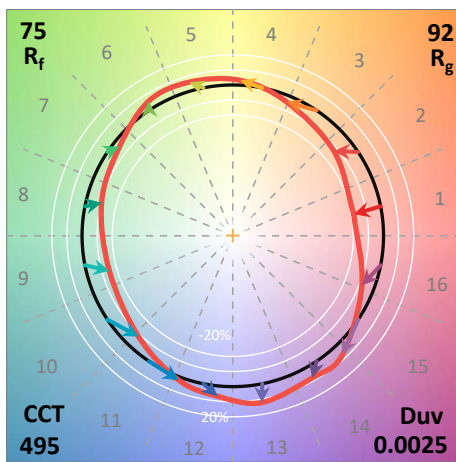
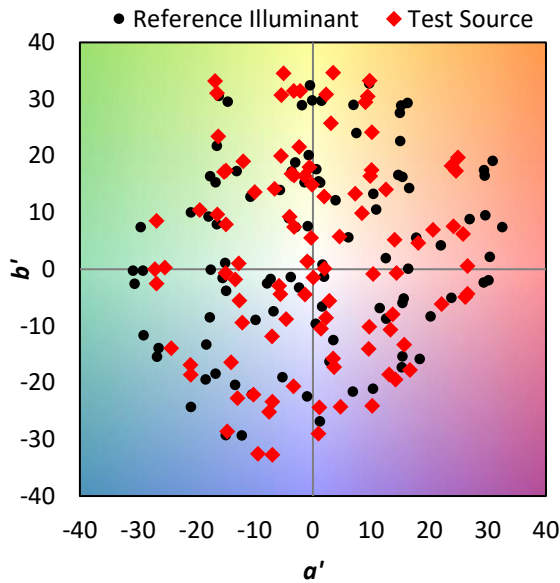
TM-30-18

Summary

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



Color Vector Graphics

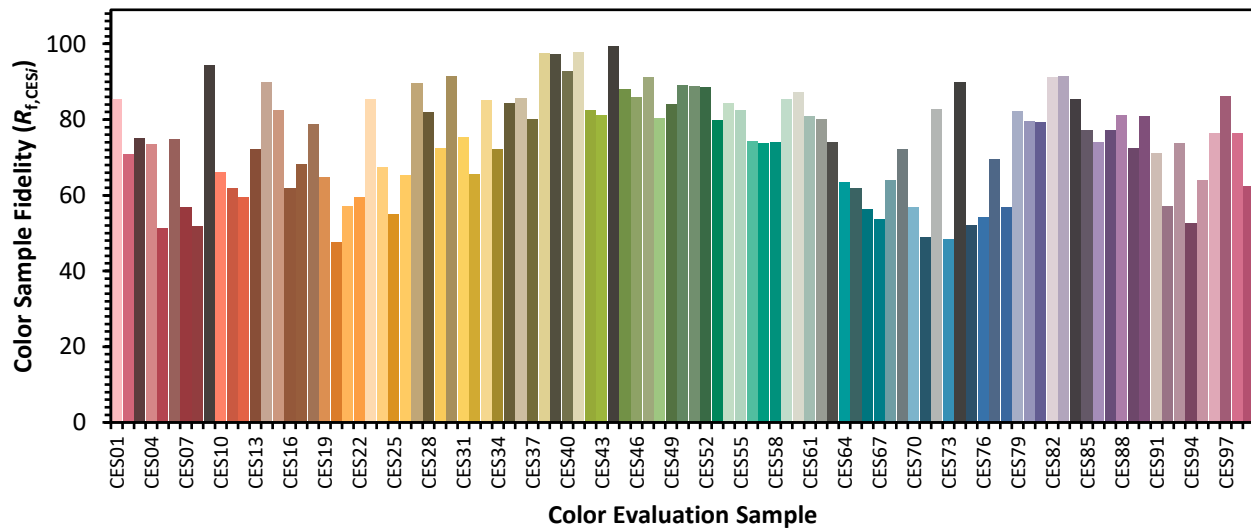


REPORT NUMBER: SP1-2406-133-5

TM-30-18

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

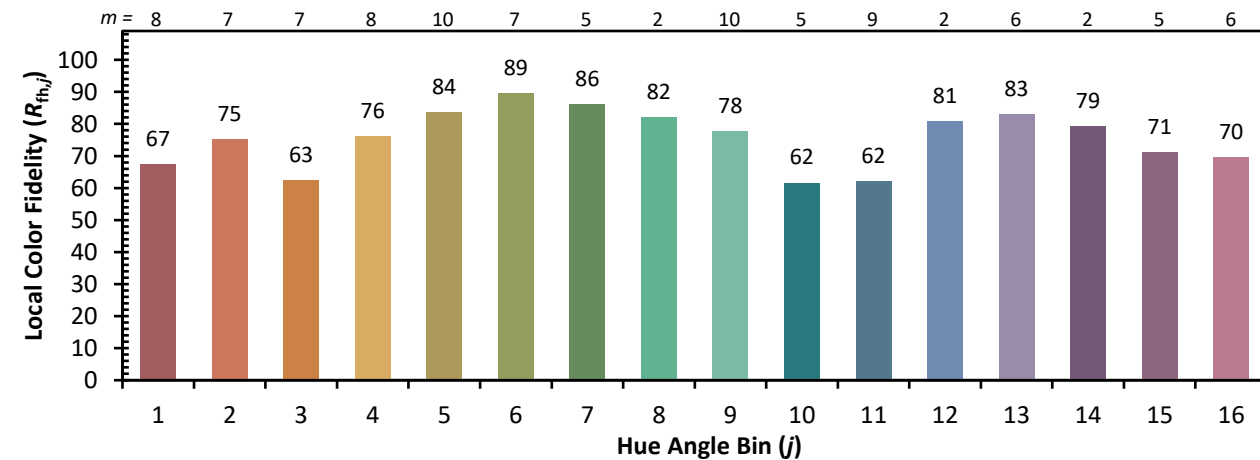
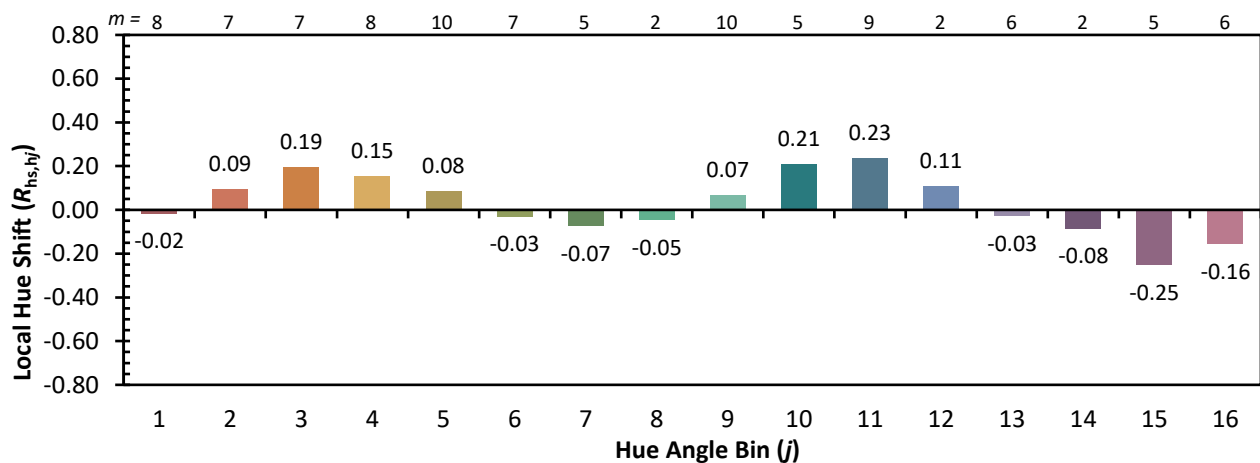
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CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 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

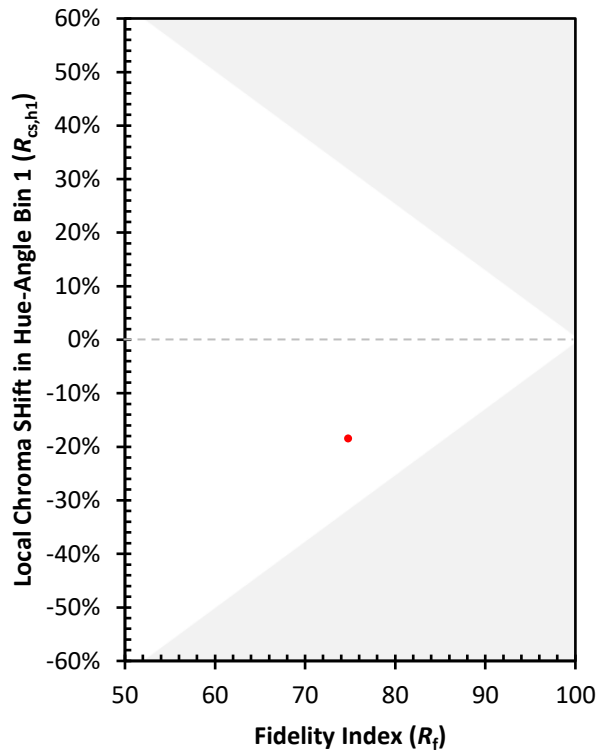
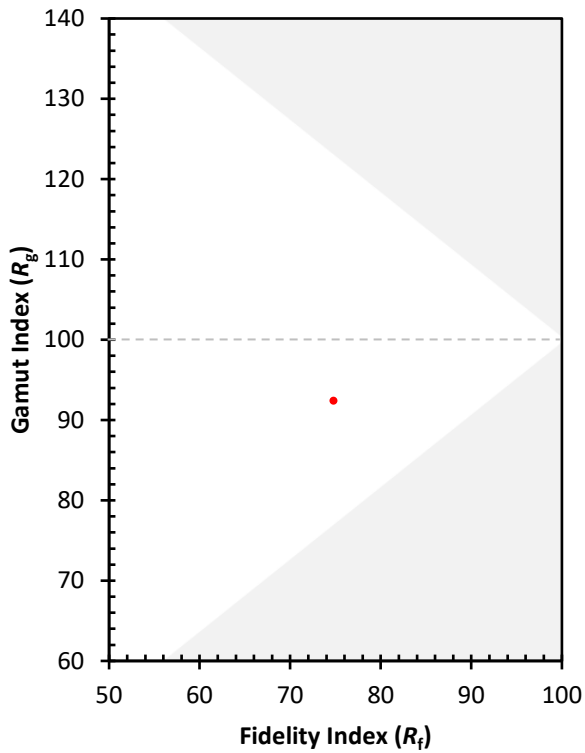
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)