

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: P856182

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856182
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-100-750-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

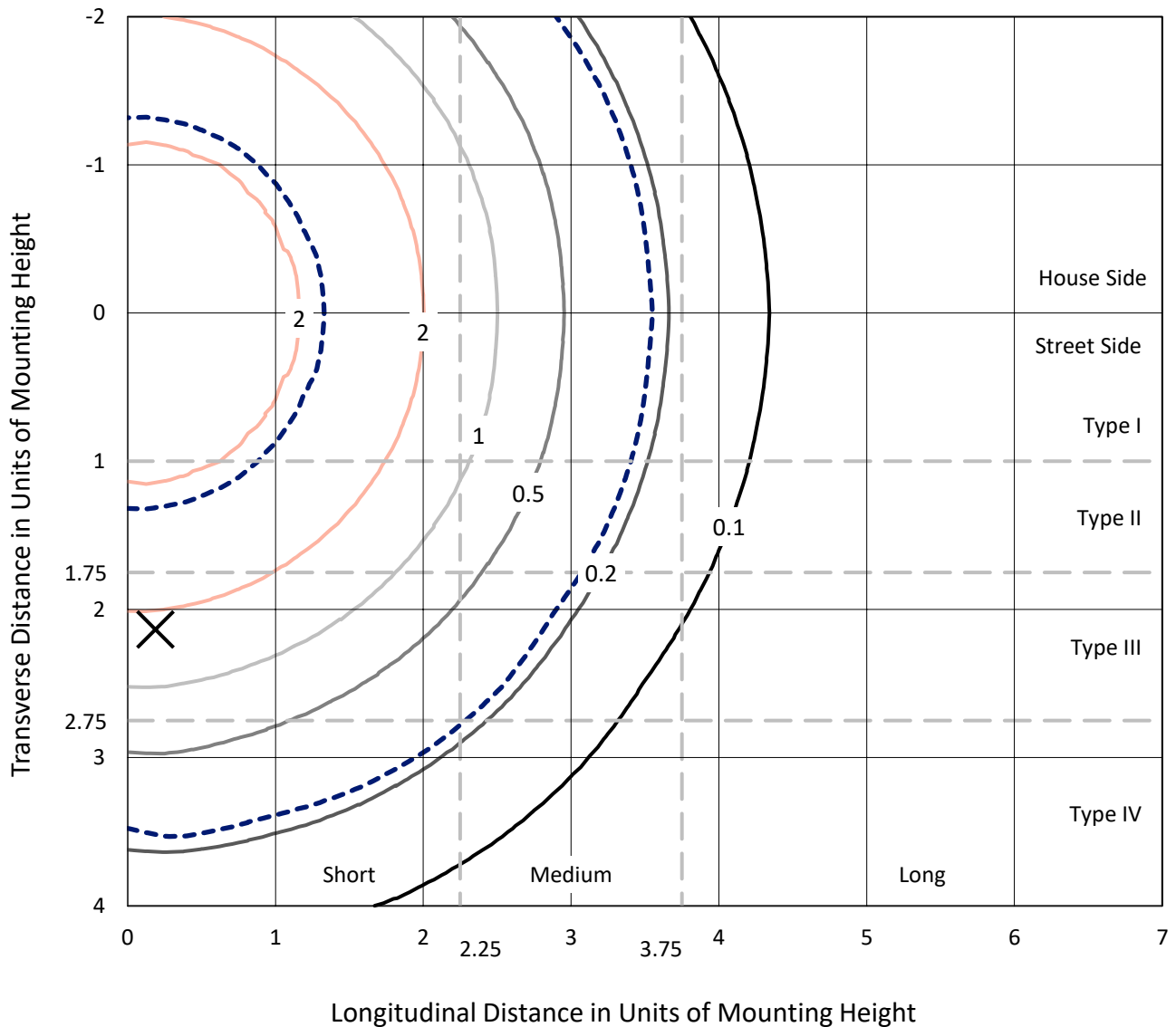
Lumens per Lamp: N/A
Luminaire Lumens: 14964.9 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B4 - U5 - G3

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

REPORT NUMBER: P856182
 CATALOG NUMBER: FFX-CLB-100-750-U-FR-T5-UPLR

Iso-Footcandle Lines of Horizontal Illumination

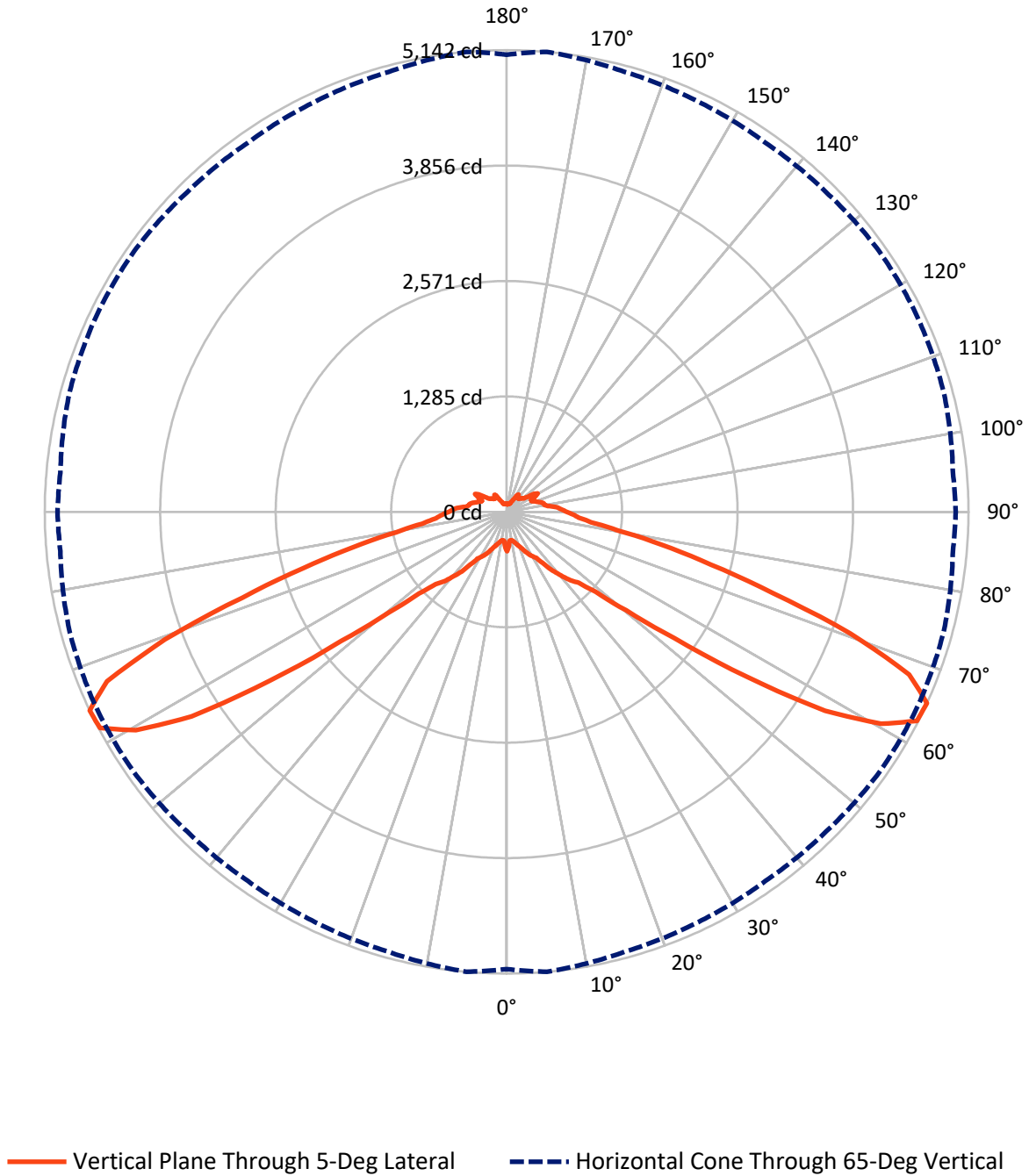
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

REPORT NUMBER: P856182
CATALOG NUMBER: FFX-CLB-100-750-U-FR-T5-UPLR

Luminous Intensity Polar Plot



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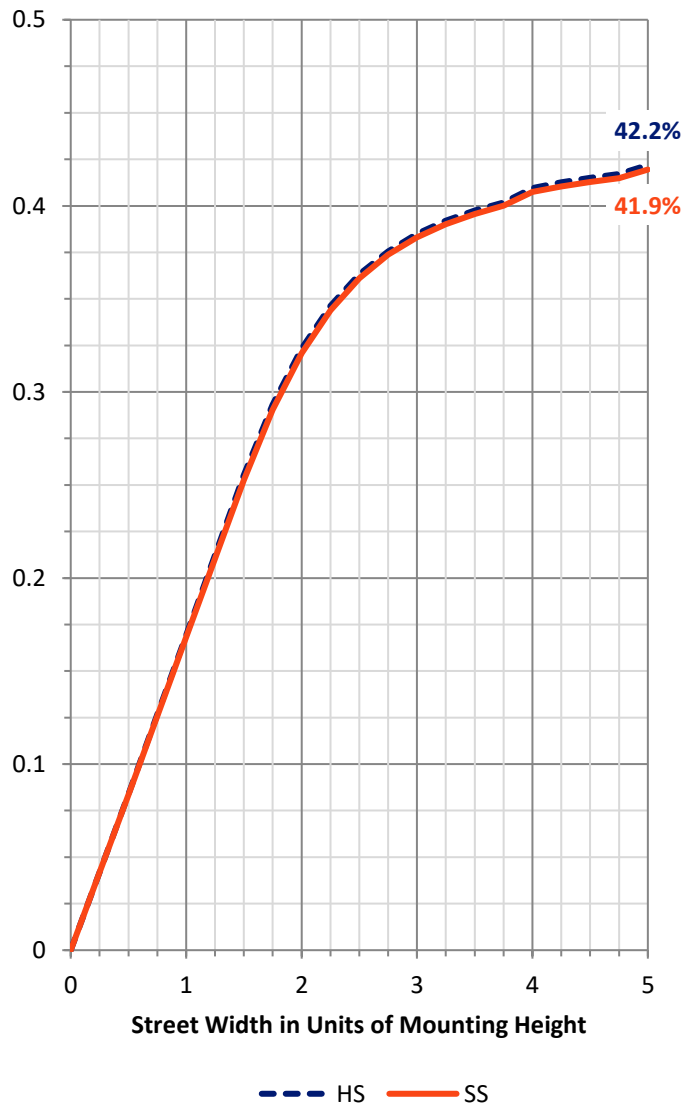
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6536.9	945.6	7482.5
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	6536.9	945.6	7482.5
	% Fixture	43.7	6.3	50.0
Total	Lumens	13073.8	1891.1	14964.9
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	0.2
10°-20°	105.0	0.7
20°-30°	227.8	1.5
30°-40°	461.4	3.1
40°-50°	930.2	6.2
50°-60°	2957.3	19.8
60°-70°	4769.2	31.9
70°-80°	2600.8	17.4
80°-90°	990.3	6.6
90°-100°	594.2	4.0
100°-110°	379.0	2.5
110°-120°	288.3	1.9
120°-130°	243.9	1.6
130°-140°	158.9	1.1
140°-150°	133.2	0.9
150°-160°	59.7	0.4
160°-170°	25.3	0.2
170°-180°	8.5	0.1
0°-90°	13073.8	87.4
0°-180°	14964.9	100.0

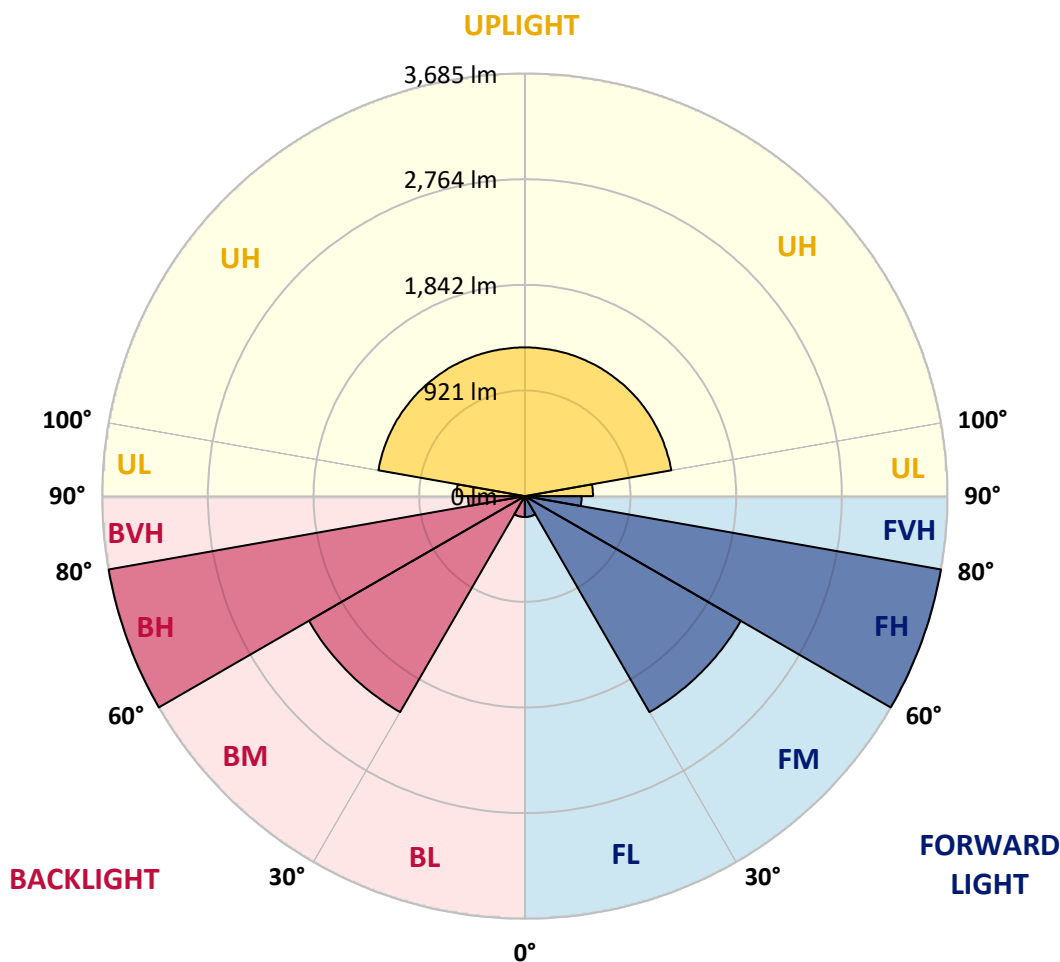


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.3	1.2			
FM (30°-60°)	2174.4	14.5			
FH (60°-80°)	3685.0	24.6			G2/5000
FVH (80°-90°)	495.1	3.3			G3/500
BL (0°-30°)	182.3	1.2	B1/500		
BM (30°-60°)	2174.4	14.5	B2/2500		
BH (60°-80°)	3685.0	24.6	B4/5000		G2/5000
BVH (80°-90°)	495.1	3.3			G3/500
UL (90°-100°)	594.2	4.0		U4/1000	
UH (100°-180°)	1296.9	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°	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2
2.5°	392.3	398.5	381.3	367.3	361.0	362.6	376.6	390.7	376.6	381.3	381.3
5°	325.1	326.6	326.6	323.5	328.2	318.8	307.9	307.9	318.8	331.3	331.3
7.5°	314.1	318.8	331.3	331.3	336.0	320.4	304.8	306.3	321.9	340.7	345.4
10°	323.5	323.5	320.4	323.5	334.4	332.9	315.7	307.9	318.8	337.6	343.8
12.5°	337.6	337.6	347.0	361.0	362.6	348.5	331.3	329.8	342.3	354.8	354.8
15°	357.9	359.5	364.1	362.6	367.3	362.6	357.9	361.0	368.8	368.8	368.8
17.5°	384.5	384.5	384.5	384.5	384.5	386.0	387.6	387.6	387.6	390.7	390.7
20°	414.2	414.2	412.6	411.0	411.0	412.6	414.2	414.2	414.2	417.3	417.3
22.5°	451.7	450.1	447.0	447.0	447.0	448.5	445.4	443.8	442.3	443.8	443.8
25°	495.4	495.4	492.3	487.6	487.6	486.0	481.4	479.8	478.2	481.4	479.8
27.5°	539.2	539.2	534.5	528.2	528.2	528.2	525.1	522.0	518.9	520.4	520.4
30°	579.8	576.7	575.1	570.4	568.9	570.4	567.3	567.3	561.1	559.5	562.6
32.5°	617.3	614.2	617.3	612.6	607.9	612.6	611.1	611.1	601.7	598.6	601.7
35°	720.5	712.7	718.9	708.0	701.7	703.3	706.4	712.7	703.3	698.6	700.2
37.5°	831.4	829.9	850.2	867.4	864.3	837.7	820.5	823.6	836.1	853.3	853.3
40°	934.6	931.5	936.1	929.9	929.9	926.8	925.2	933.0	908.0	901.8	897.1
42.5°	1042.4	1040.9	1014.3	976.8	969.0	1000.2	1014.3	1025.2	989.3	976.8	967.4
45°	1148.7	1126.8	1122.1	1109.6	1097.1	1117.4	1115.9	1123.7	1106.5	1104.9	1097.1
47.5°	1372.2	1331.5	1317.5	1319.0	1292.5	1314.4	1323.7	1348.7	1312.8	1314.4	1312.8
50°	1775.4	1723.8	1747.3	1731.6	1703.5	1730.1	1728.5	1773.8	1714.4	1736.3	1726.9
52.5°	2405.2	2334.9	2349.0	2339.6	2311.4	2366.1	2378.7	2445.9	2331.8	2359.9	2352.1
55°	3316.4	3239.8	3271.0	3158.5	3128.8	3236.7	3277.3	3355.4	3203.8	3219.5	3211.6
57.5°	4185.3	4180.6	4233.7	4154.0	4127.5	4204.1	4166.5	4235.3	4154.0	4211.9	4193.1
60°	4777.6	4790.1	4843.3	4866.7	4819.8	4860.5	4769.8	4821.4	4796.4	4880.8	4873.0
62.5°	5085.5	5126.1	5094.9	5096.4	5044.9	5076.1	5058.9	5088.6	5082.4	5090.2	5082.4
65°	5091.8	5141.8	5073.0	5041.7	5019.9	5032.4	5062.1	5062.1	5043.3	4987.0	4999.5
67.5°	4758.9	4833.9	4757.3	4713.5	4726.0	4721.4	4741.7	4715.1	4704.2	4621.3	4622.9
70°	3939.9	4060.3	3947.7	3907.1	3939.9	3960.3	3958.7	3936.8	3919.6	3816.5	3846.2
72.5°	2991.3	3097.6	2997.5	2981.9	3013.2	3044.4	3017.9	3044.4	3016.3	2969.4	2983.5
75°	2258.3	2349.0	2349.0	2408.3	2417.7	2400.5	2327.1	2356.8	2375.5	2377.1	2391.2
77.5°	1661.3	1756.6	1806.6	1903.5	1898.9	1869.2	1780.1	1814.5	1850.4	1875.4	1892.6
80°	1181.5	1253.4	1326.9	1395.6	1405.0	1380.0	1325.3	1345.6	1367.5	1384.7	1394.1
82.5°	915.8	948.6	934.6	926.8	939.3	975.2	987.7	1000.2	969.0	948.6	956.5
85°	798.6	801.7	826.7	843.9	848.6	848.6	836.1	845.5	853.3	873.6	873.6
87.5°	728.3	731.4	793.9	811.1	817.4	809.6	793.9	800.2	806.4	818.9	818.9
90°	647.0	656.4	718.9	733.0	739.2	726.7	722.0	726.7	718.9	723.6	723.6
92.5°	601.7	601.7	631.4	625.1	623.6	625.1	626.7	631.4	623.6	620.4	620.4
95°	550.1	557.9	550.1	556.4	554.8	547.0	543.9	547.0	542.3	542.3	545.4
97.5°	461.0	462.6	448.5	453.2	453.2	447.0	439.2	442.3	437.6	440.7	442.3
100°	431.3	426.7	403.2	400.1	398.5	393.8	389.1	389.1	387.6	386.0	387.6
102.5°	422.0	422.0	390.7	384.5	381.3	373.5	367.3	367.3	367.3	367.3	368.8
105°	386.0	397.0	373.5	368.8	364.1	354.8	345.4	343.8	347.0	343.8	348.5
107.5°	350.1	359.5	347.0	347.0	342.3	332.9	326.6	325.1	326.6	323.5	326.6
110°	329.8	334.4	320.4	320.4	317.3	309.4	307.9	306.3	306.3	301.6	304.8



REPORT NUMBER: P856182

CATALOG NUMBER: FFX-CLB-100-750-U-FR-T5-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	304.8	304.8	293.8	290.7	290.7	286.0	284.4	282.9	282.9	282.9	284.4
115°	303.2	301.6	284.4	273.5	271.9	270.4	271.9	270.4	270.4	268.8	268.8
117.5°	370.4	354.8	296.9	270.4	270.4	271.9	278.2	273.5	262.6	262.6	261.0
120°	400.1	403.2	342.3	314.1	307.9	300.1	298.5	295.4	284.4	282.9	289.1
122.5°	353.2	368.8	331.3	320.4	314.1	304.8	298.5	296.9	296.9	289.1	300.1
125°	275.1	289.1	270.4	268.8	267.2	268.8	265.7	265.7	268.8	264.1	265.7
127.5°	236.0	242.2	234.4	234.4	232.9	231.3	228.2	229.7	228.2	229.7	231.3
130°	226.6	231.3	223.5	220.4	220.4	221.9	221.9	221.9	217.2	214.1	215.7
132.5°	225.0	223.5	211.0	204.7	204.7	215.7	220.4	220.4	209.4	201.6	201.6
135°	203.2	204.7	203.2	195.4	196.9	200.0	204.7	206.3	195.4	190.7	192.2
137.5°	195.4	200.0	201.6	198.5	198.5	195.4	193.8	195.4	192.2	193.8	193.8
140°	195.4	196.9	201.6	204.7	201.6	198.5	198.5	198.5	200.0	204.7	207.9
142.5°	200.0	201.6	200.0	198.5	203.2	211.0	217.2	217.2	212.5	209.4	211.0
145°	229.7	234.4	234.4	229.7	232.9	229.7	229.7	226.6	226.6	226.6	228.2
147.5°	218.8	217.2	220.4	225.0	220.4	218.8	218.8	220.4	223.5	225.0	226.6
150°	171.9	167.2	170.4	179.7	178.2	178.2	178.2	179.7	181.3	181.3	182.9
152.5°	136.0	136.0	139.1	139.1	140.7	140.7	139.1	139.1	139.1	140.7	140.7
155°	121.9	120.3	123.5	128.2	125.0	125.0	125.0	125.0	125.0	125.0	126.6
157.5°	106.3	104.7	104.7	106.3	106.3	106.3	106.3	107.8	107.8	106.3	107.8
160°	96.9	96.9	95.3	95.3	95.3	96.9	98.5	98.5	96.9	95.3	95.3
162.5°	92.2	92.2	89.1	87.5	87.5	89.1	92.2	92.2	89.1	87.5	87.5
165°	92.2	90.6	86.0	82.8	82.8	86.0	90.6	90.6	86.0	82.8	82.8
167.5°	90.6	90.6	87.5	84.4	84.4	87.5	89.1	90.6	89.1	86.0	84.4
170°	87.5	87.5	89.1	89.1	87.5	87.5	87.5	87.5	89.1	89.1	89.1
172.5°	90.6	89.1	90.6	92.2	92.2	90.6	89.1	89.1	90.6	92.2	92.2
175°	92.2	92.2	90.6	90.6	90.6	89.1	89.1	89.1	90.6	92.2	90.6
177.5°	82.8	82.8	81.3	82.8	82.8	82.8	81.3	82.8	82.8	82.8	84.4
180°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1

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.

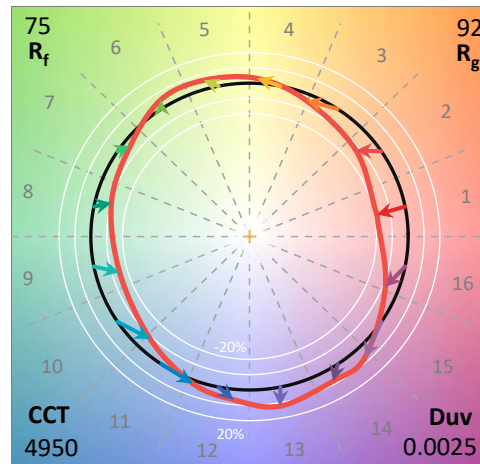
Test Information

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

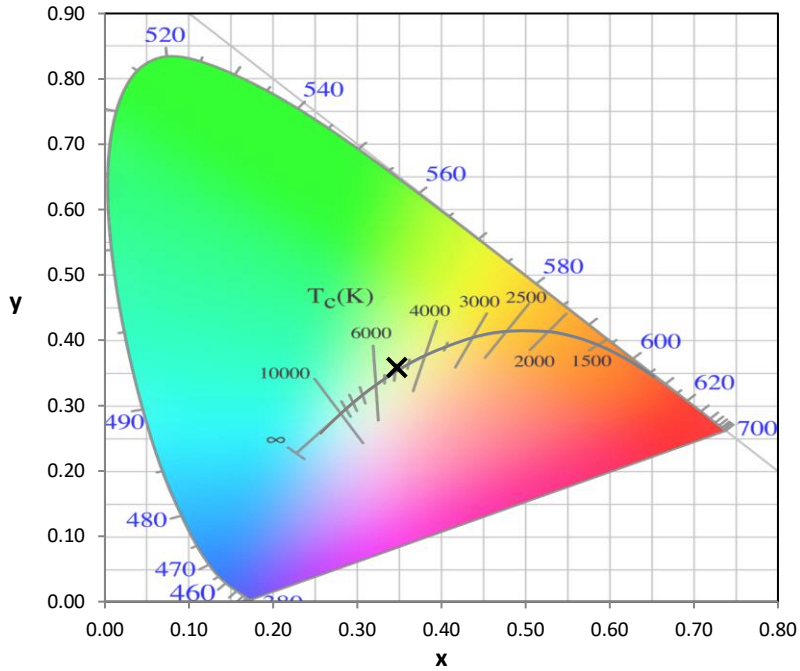
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

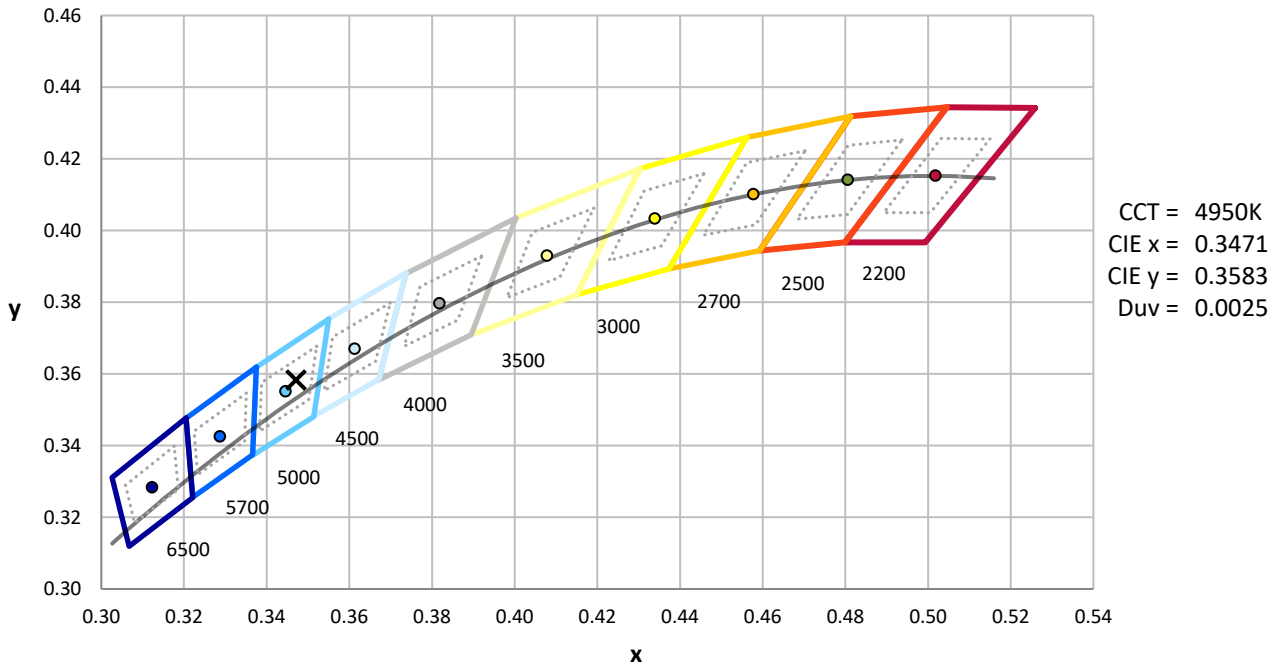
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



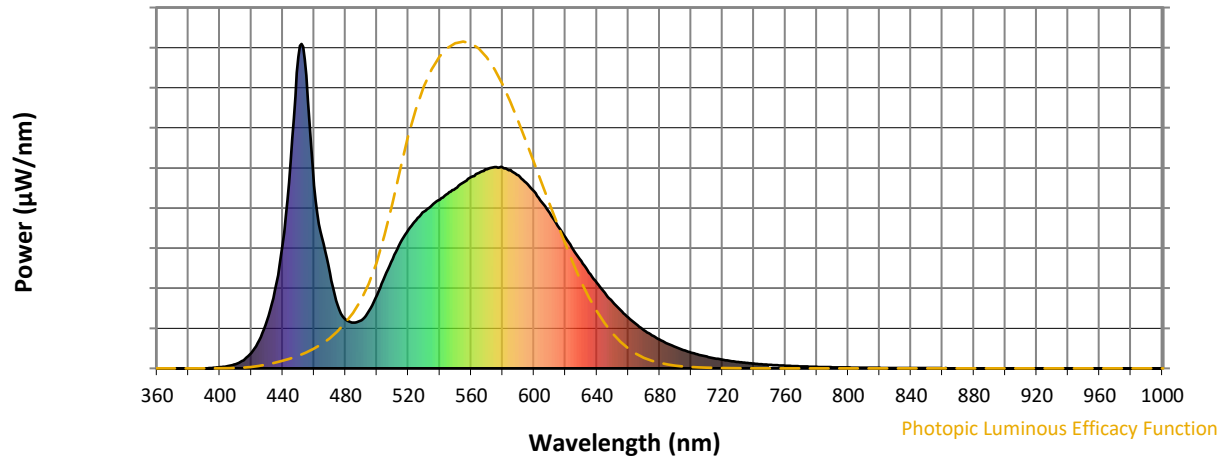
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

Photopic Flux vs. Wavelength

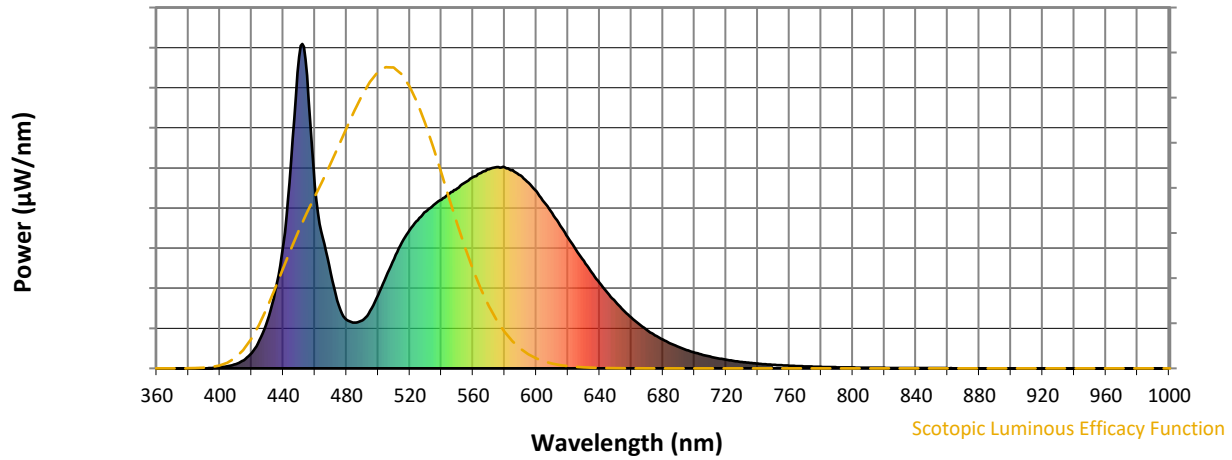


Photopic Lumens: NR

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



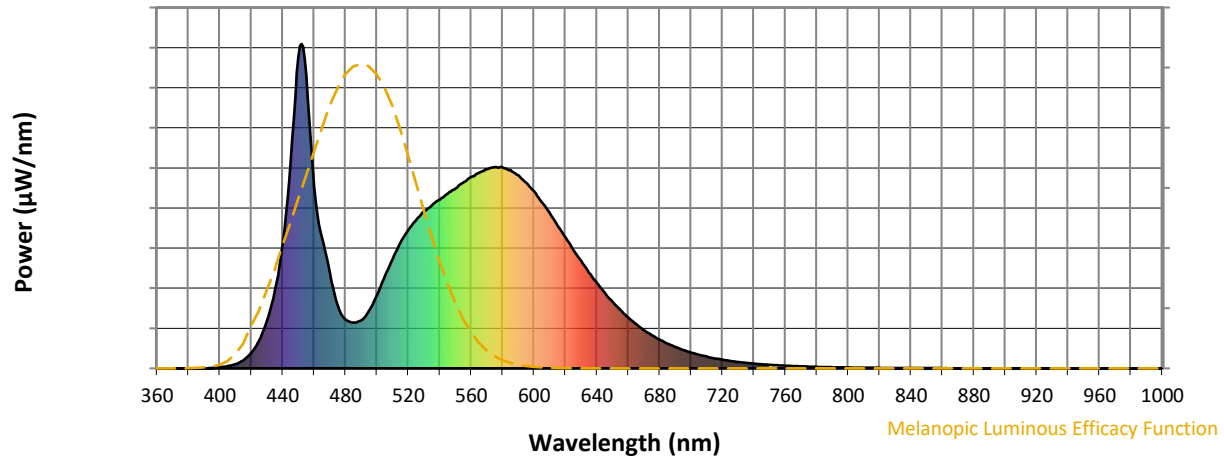
Scotopic Lumens: NR

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

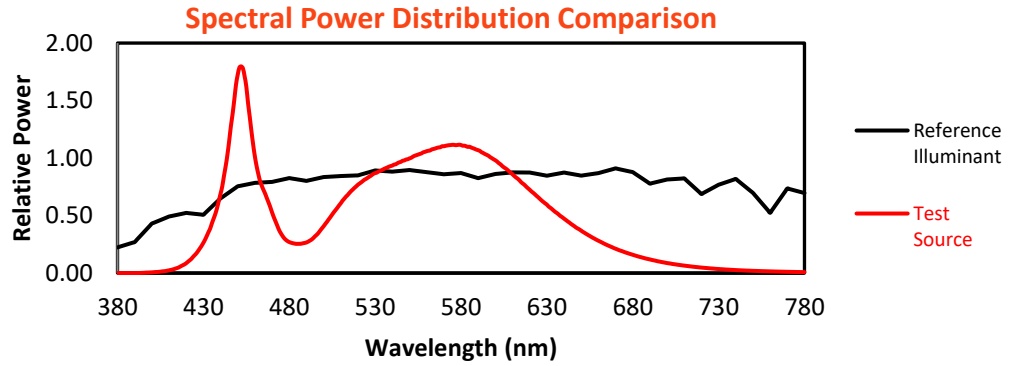
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	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

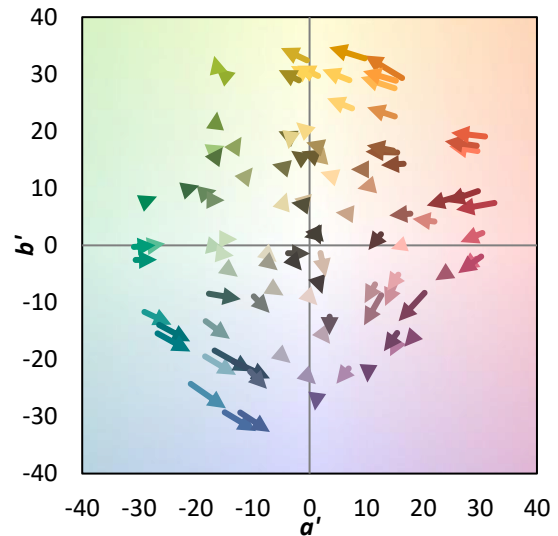
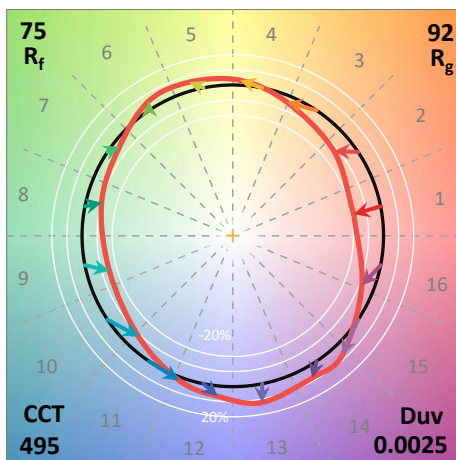
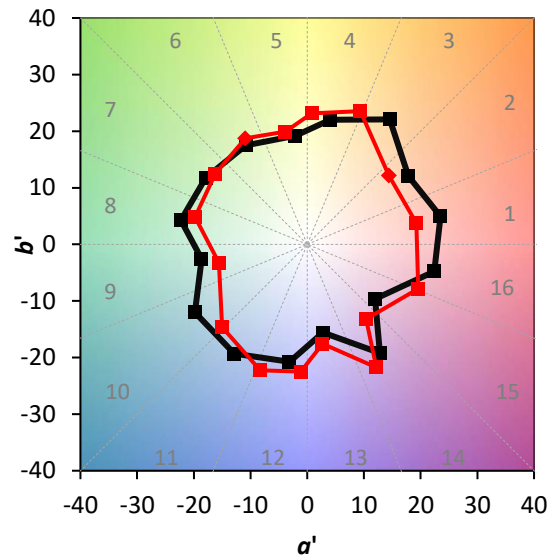
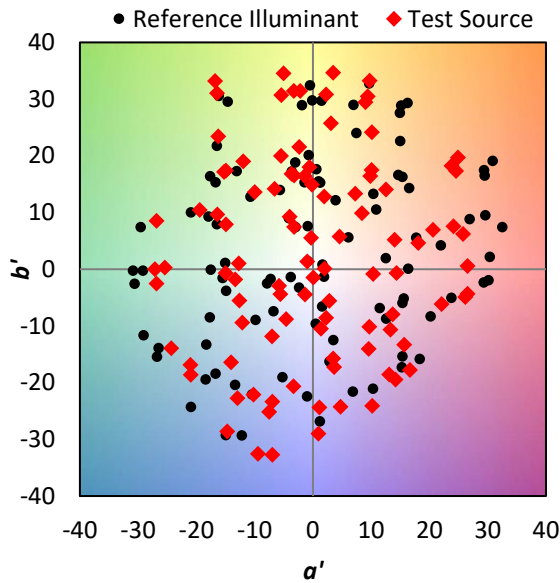
TM-30-18

Summary

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



Color Vector Graphics

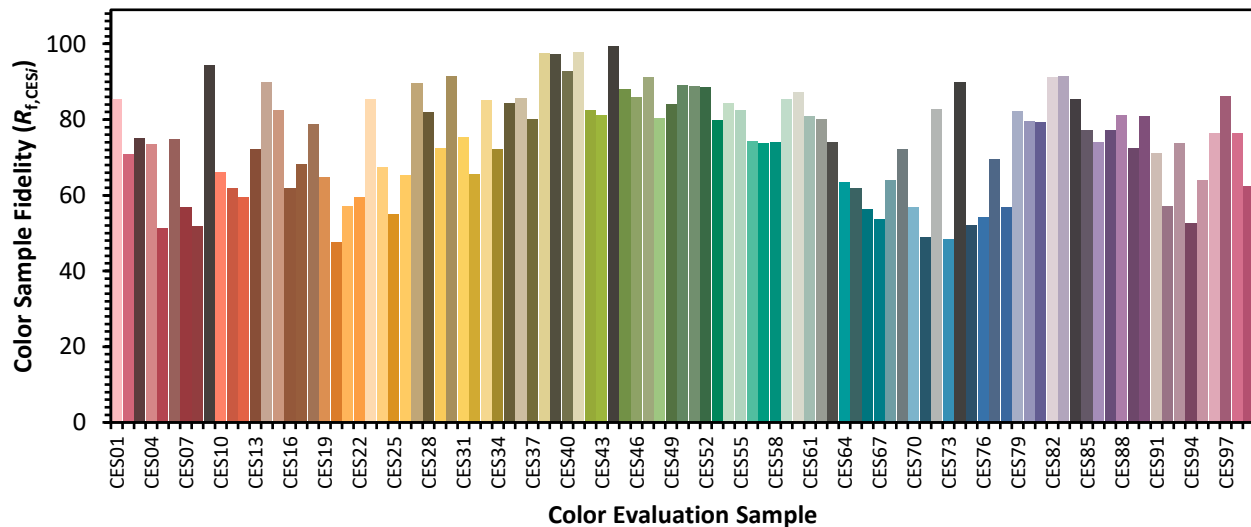


REPORT NUMBER: SP1-2406-133-5

TM-30-18

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

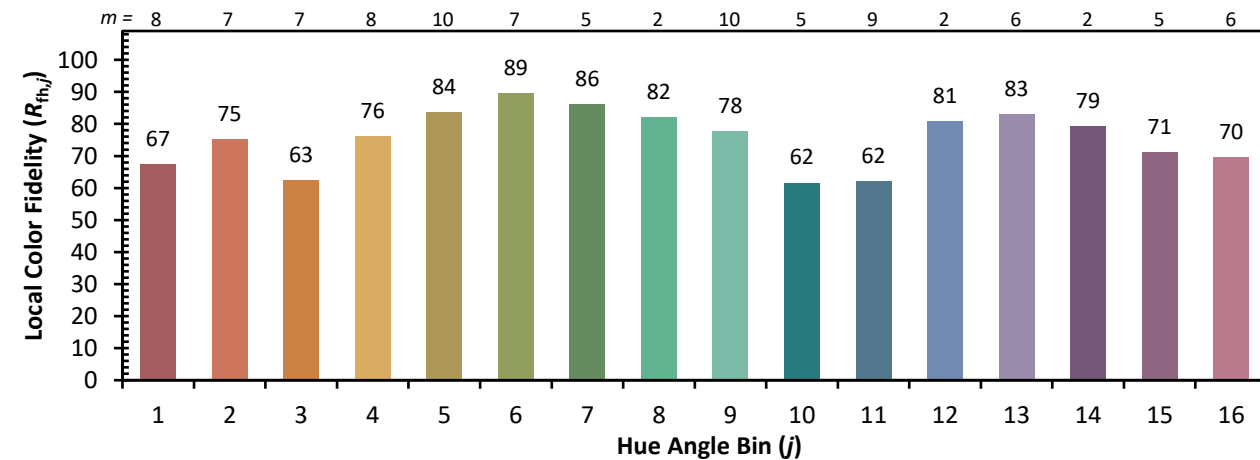
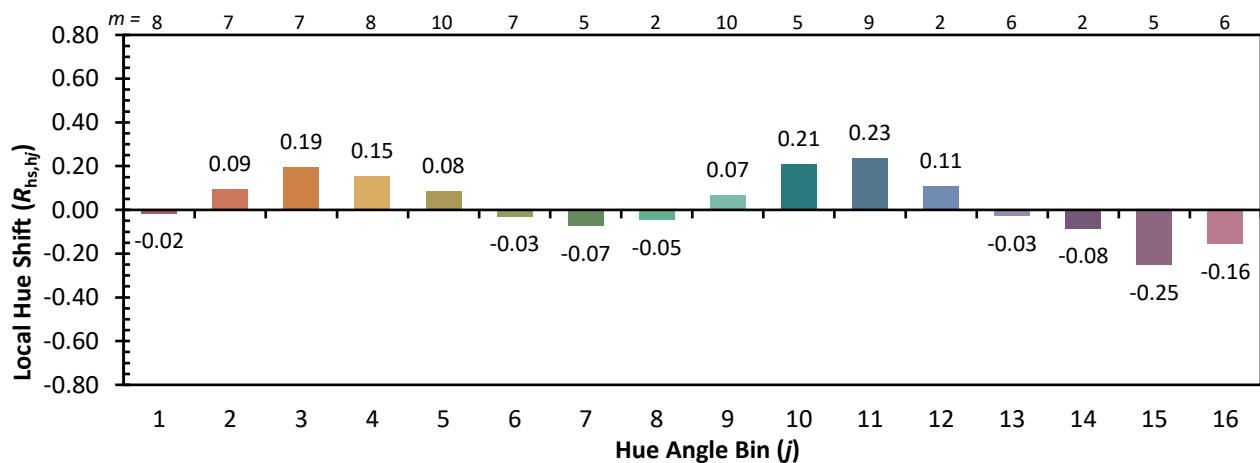
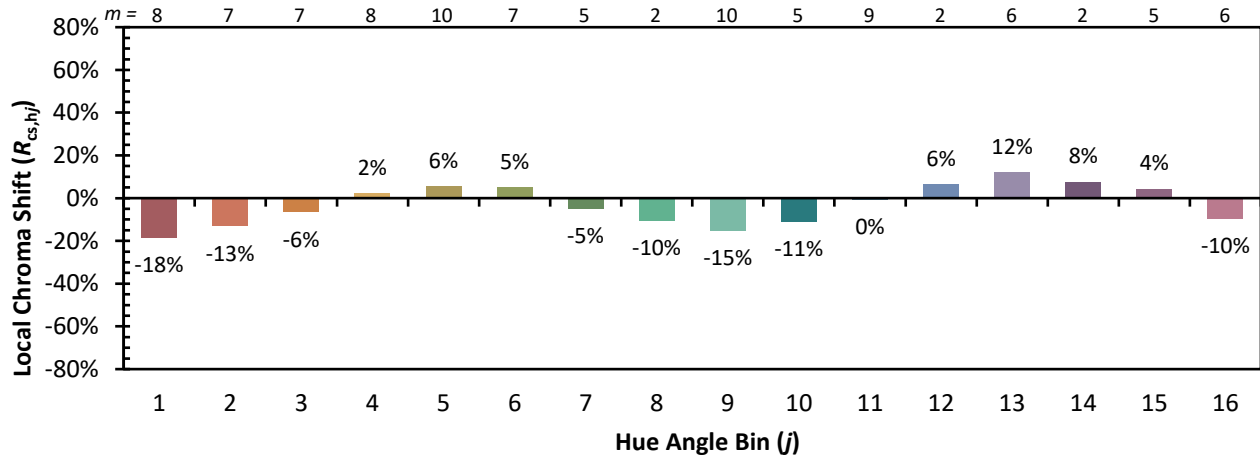
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CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57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

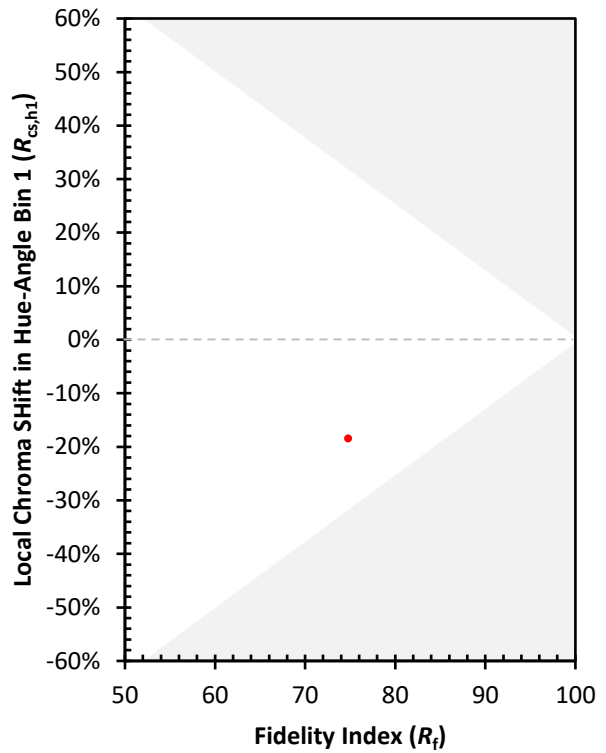
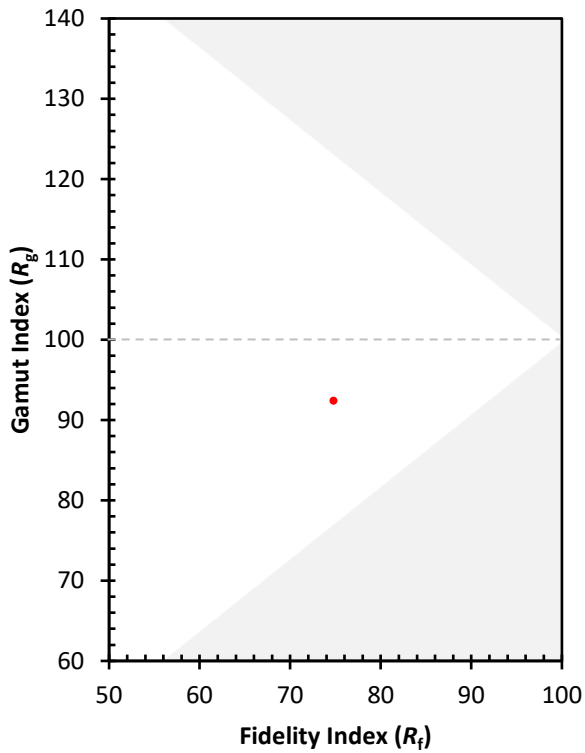
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)