

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: P856339

Luminaire Tested: **FFX-CLB-60-727-U-VM8**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856339
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-60-727-U-VM8
Description: FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

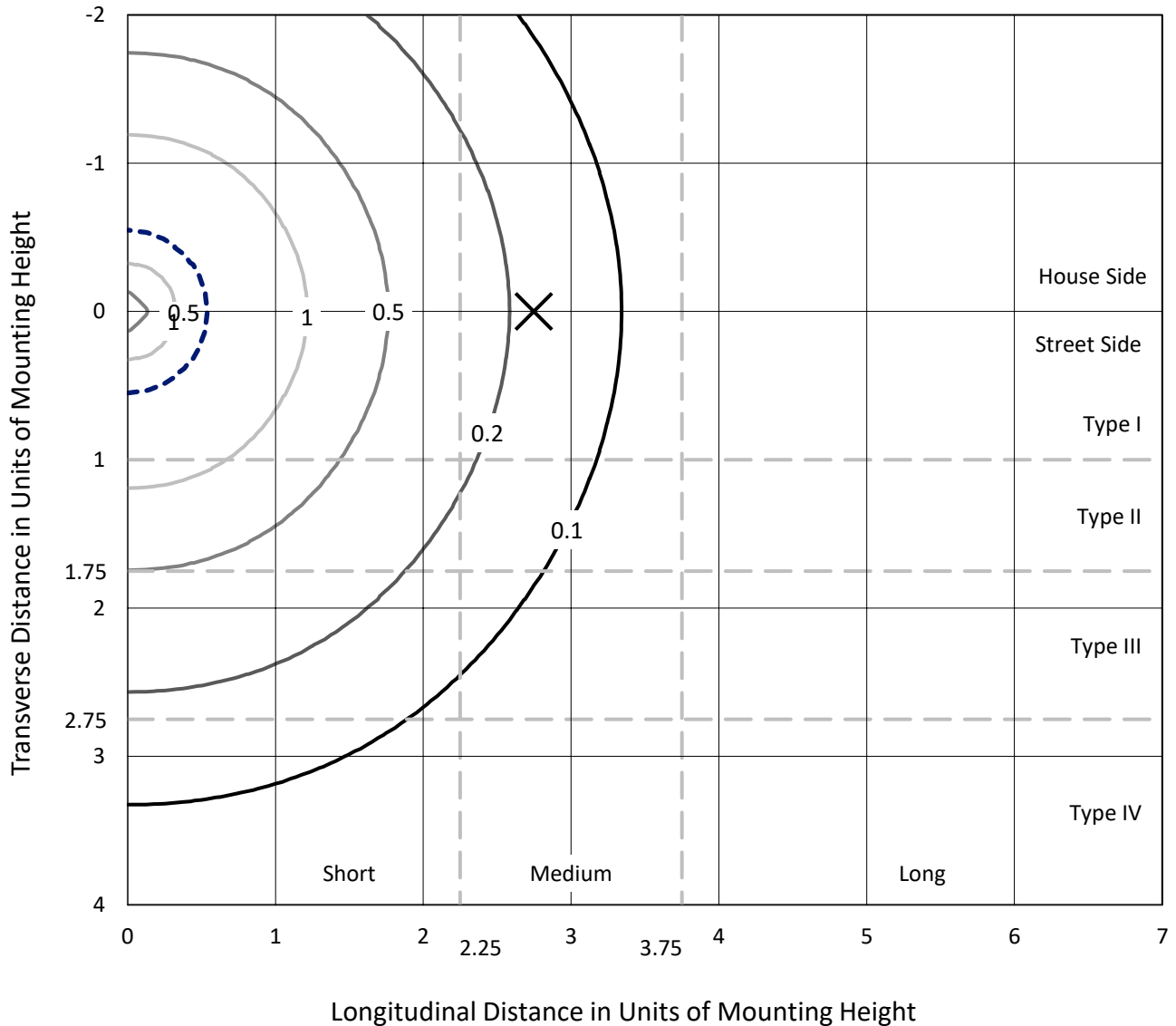
Lumens per Lamp: N/A
Luminaire Lumens: 8827.6 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type V - Short
BUG Rating: B2 - U5 - G3

Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 8.9%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P856339
 CATALOG NUMBER: FFX-CLB-60-727-U-VM8

Iso-Footcandle Lines of Horizontal Illumination

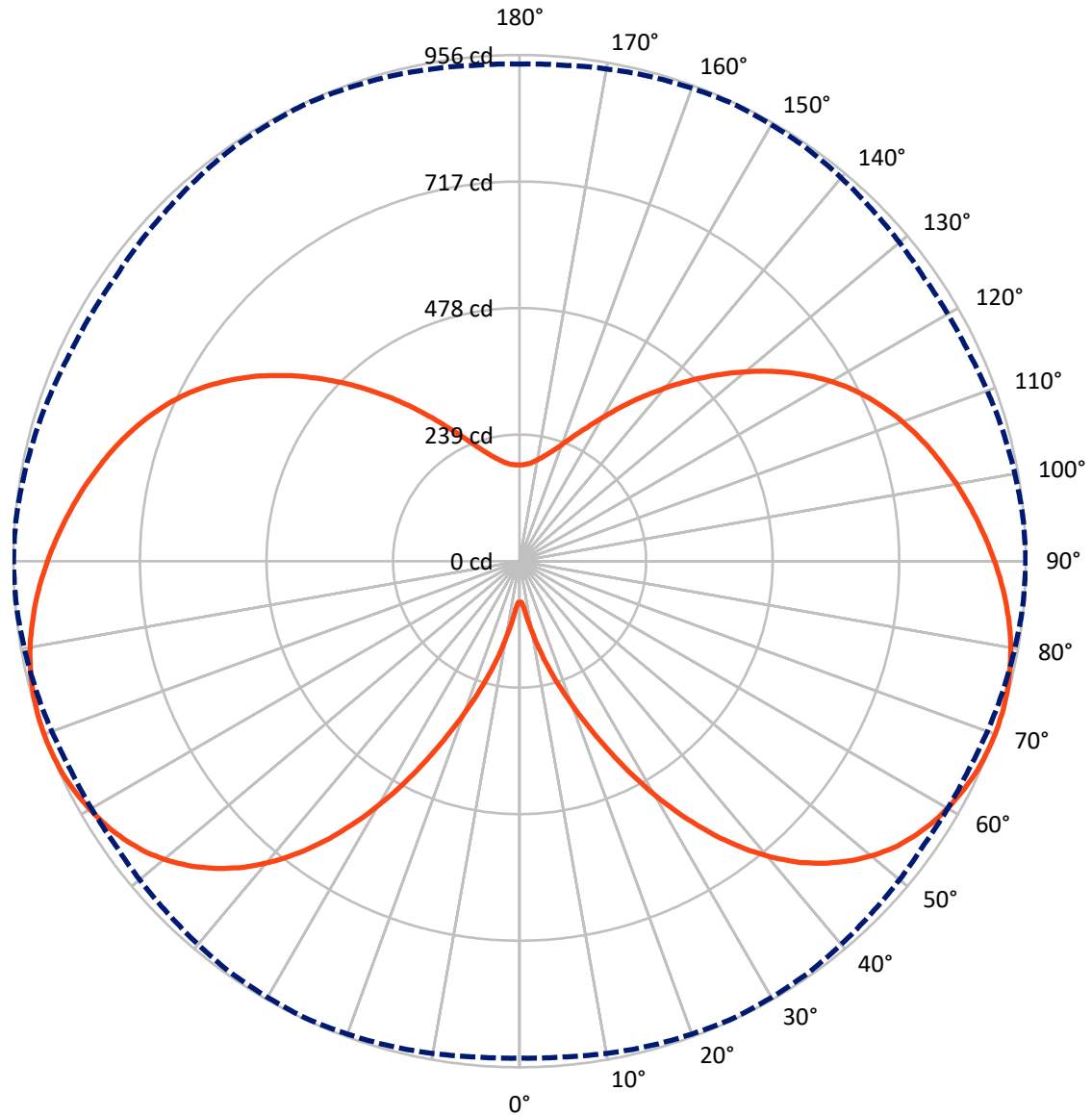
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

REPORT NUMBER: P856339
CATALOG NUMBER: FFX-CLB-60-727-U-VM8

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P856339
 CATALOG NUMBER: FFX-CLB-60-727-U-VM8

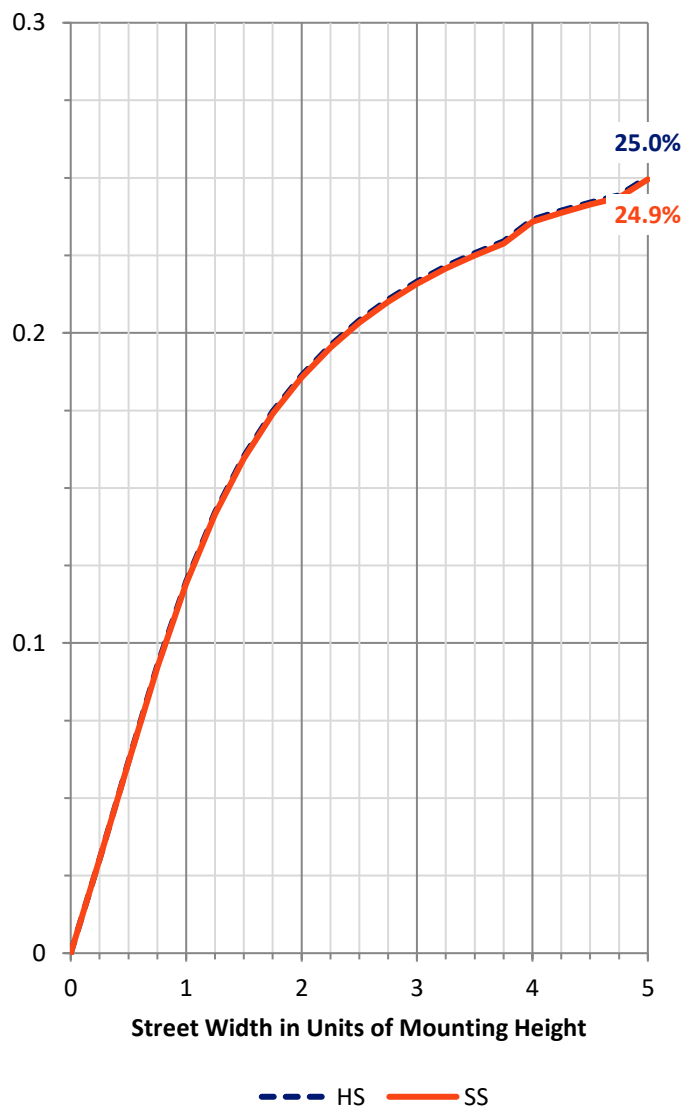
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2499.9	1913.9	4413.8
	% Fixture	28.3	21.7	50.0
Street Side	Lumens	2499.9	1913.9	4413.8
	% Fixture	28.3	21.7	50.0
Total	Lumens	4999.8	3827.8	8827.6
	% Fixture	56.6	43.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	0.1
10°-20°	63.2	0.7
20°-30°	188.6	2.1
30°-40°	394.3	4.5
40°-50°	618.8	7.0
50°-60°	803.2	9.1
60°-70°	929.8	10.5
70°-80°	995.4	11.3
80°-90°	996.2	11.3
90°-100°	939.5	10.6
100°-110°	840.6	9.5
110°-120°	706.8	8.0
120°-130°	542.2	6.1
130°-140°	370.9	4.2
140°-150°	226.3	2.6
150°-160°	123.7	1.4
160°-170°	60.0	0.7
170°-180°	17.9	0.2
0°-90°	4999.8	56.6
0°-180°	8827.6	100.0



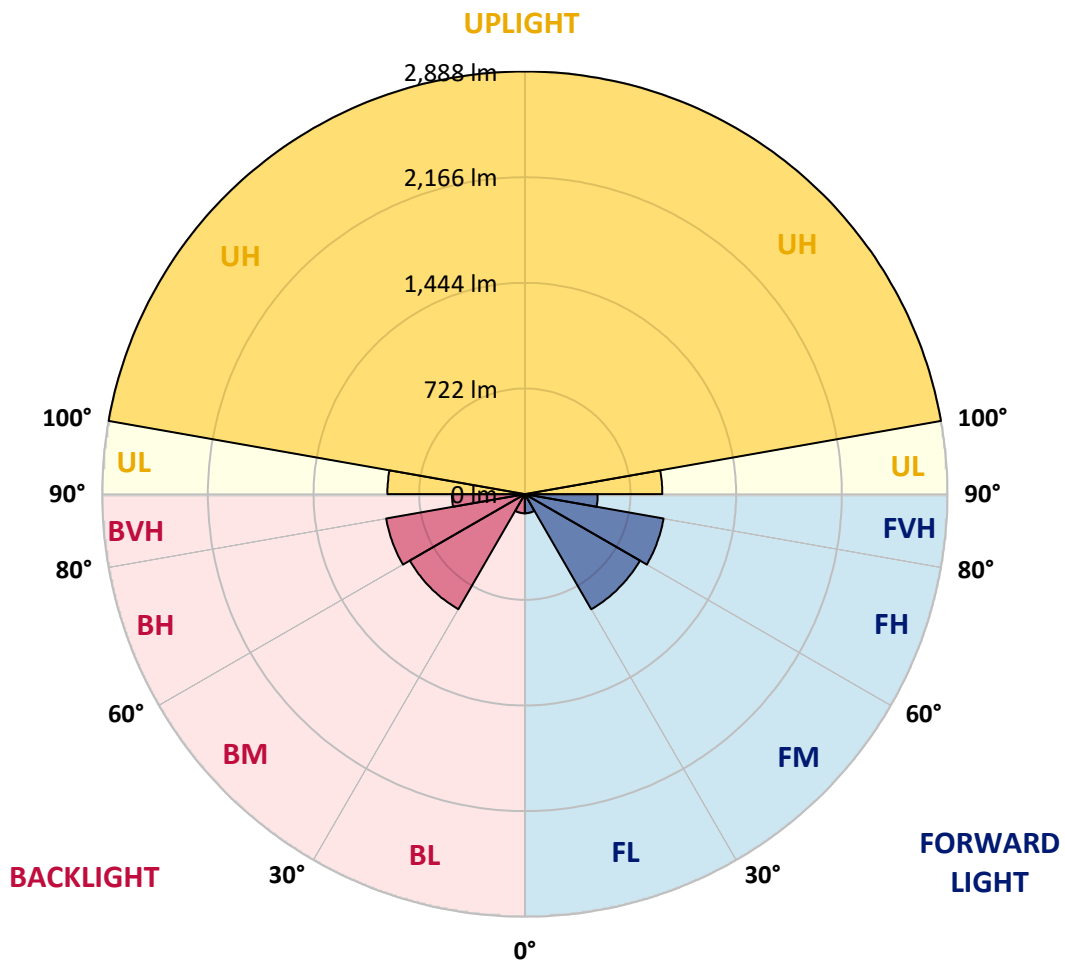
REPORT NUMBER: P856339
 CATALOG NUMBER: FFX-CLB-60-727-U-VM8

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.1	1.5			
FM (30°-60°)	908.2	10.3			
FH (60°-80°)	962.6	10.9			G1/1800
FVH (80°-90°)	498.1	5.6			G3/500
BL (0°-30°)	131.1	1.5	B1/500		
BM (30°-60°)	908.2	10.3	B1/1000		
BH (60°-80°)	962.6	10.9	B2/1000		G1/1800
BVH (80°-90°)	498.1	5.6			G3/500
UL (90°-100°)	939.5	10.6		U4/1000	
UH (100°-180°)	2888.4	32.7		U5	

BUG Rating: B2-U5-G3

Type V Short





REPORT NUMBER: P856339
 CATALOG NUMBER: FFX-CLB-60-727-U-VM8

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
2.5°	80.9	80.9	80.3	80.3	79.8	79.2	79.2	79.2	78.6	78.6	78.1
5°	92.2	91.7	91.7	91.1	91.7	91.1	91.1	91.1	91.1	90.0	90.0
7.5°	114.3	113.7	113.7	113.1	114.3	113.1	113.1	113.7	113.7	113.1	113.1
10°	143.1	142.6	142.6	141.4	142.6	142.0	142.0	140.9	141.4	140.9	141.4
12.5°	177.6	175.9	175.9	175.4	176.5	175.9	175.4	174.3	175.4	174.8	174.8
15°	213.3	213.9	213.3	212.7	213.9	213.9	213.3	212.2	213.3	212.2	212.7
17.5°	252.9	252.9	252.9	251.2	252.9	253.5	252.9	251.8	252.3	252.9	252.9
20°	295.9	295.9	296.5	295.3	298.1	296.5	295.9	295.3	295.9	296.5	297.0
22.5°	343.4	343.4	344.0	343.4	345.1	345.1	344.5	344.5	345.1	346.2	346.2
25°	396.0	396.6	396.6	394.9	398.9	400.0	398.9	398.9	400.0	401.7	401.7
27.5°	450.3	452.6	451.5	451.5	456.6	457.1	456.6	457.1	458.8	460.5	461.1
30°	506.3	508.0	510.3	508.6	514.3	514.8	515.4	516.0	518.2	521.1	521.1
32.5°	562.4	564.1	565.2	565.2	572.5	572.0	571.4	573.7	577.1	578.2	579.9
35°	618.4	618.4	619.5	620.1	627.4	626.9	628.0	629.7	633.1	635.3	636.5
37.5°	668.7	667.6	670.4	671.5	677.2	677.8	678.3	681.2	685.1	688.0	689.1
40°	714.5	713.4	716.8	718.5	723.6	723.6	724.7	728.1	732.6	735.5	736.0
42.5°	755.3	754.7	758.1	760.4	765.5	764.9	764.3	768.9	773.9	777.3	778.5
45°	790.4	789.8	794.3	797.1	801.1	800.0	800.0	803.9	809.6	813.5	814.1
47.5°	820.3	820.3	825.4	828.8	832.2	830.5	829.4	833.3	839.0	844.7	845.2
50°	846.9	846.4	852.0	856.0	858.8	856.5	854.8	858.8	865.0	870.7	871.8
52.5°	867.9	869.0	874.6	879.7	882.0	878.6	875.8	879.7	886.5	892.8	893.9
55°	886.0	886.5	892.8	899.0	900.1	895.6	892.2	895.6	902.9	909.7	910.9
57.5°	900.1	901.2	908.6	914.3	914.8	909.7	905.8	908.6	916.5	923.3	925.0
60°	912.6	913.7	920.5	926.7	927.3	921.0	915.9	918.2	926.7	934.6	935.7
62.5°	922.2	923.9	931.2	936.9	936.9	929.5	923.3	925.6	934.6	943.1	944.2
65°	930.1	931.8	939.1	944.8	944.2	935.7	929.0	931.2	940.8	949.3	951.0
67.5°	935.7	936.9	944.8	950.5	948.2	939.1	932.4	934.1	944.2	952.7	954.4
70°	939.1	940.3	948.2	953.3	949.9	940.3	932.9	935.2	945.4	954.4	956.1
72.5°	940.8	942.5	949.9	954.4	950.5	939.7	931.8	934.6	944.8	954.4	955.6
75°	940.3	941.4	948.8	952.7	947.6	937.4	929.0	931.8	942.5	951.0	952.7
77.5°	937.4	938.6	945.4	948.8	942.5	932.4	924.4	927.3	937.4	945.9	947.6
80°	932.9	934.1	940.3	942.5	936.3	926.1	918.8	921.6	931.2	939.1	940.8
82.5°	925.6	927.3	932.9	934.1	927.3	918.2	910.9	913.7	922.7	930.1	931.2
85°	916.5	917.6	922.7	923.3	916.5	908.6	902.4	905.2	913.1	918.8	920.5
87.5°	906.3	906.3	911.4	911.4	904.1	896.7	892.2	894.4	901.8	906.3	908.0
90°	893.9	894.4	897.8	897.3	890.5	884.3	880.3	883.1	889.4	893.3	894.4
92.5°	880.3	880.9	883.7	882.6	875.8	870.7	867.3	870.7	876.3	879.2	880.3
95°	865.6	866.2	868.4	866.2	859.9	856.0	853.2	857.1	861.6	864.5	865.6
97.5°	850.3	850.9	852.6	850.3	843.5	840.1	839.0	842.4	846.9	849.2	850.3
100°	834.5	834.5	835.6	832.2	826.6	823.7	823.2	827.1	831.7	833.9	835.0
102.5°	816.9	817.5	817.5	814.1	808.5	806.8	806.8	811.3	815.8	817.5	818.6
105°	798.8	798.8	798.8	796.0	789.8	788.7	789.2	793.7	798.8	801.1	802.2
107.5°	779.0	779.6	778.5	775.6	770.6	769.4	770.6	776.8	781.3	783.6	784.7
110°	758.1	758.7	758.1	754.7	750.2	749.6	751.3	757.5	762.1	764.3	766.0



REPORT NUMBER: P856339
 CATALOG NUMBER: FFX-CLB-60-727-U-VM8

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	736.0	736.6	736.0	733.2	728.7	728.7	730.9	737.2	742.3	744.0	745.7
115°	712.8	713.4	712.3	710.0	705.5	706.6	708.9	715.1	720.2	721.9	724.2
117.5°	688.0	688.5	688.0	685.1	681.2	682.3	685.7	691.9	696.4	698.1	700.4
120°	660.8	660.8	660.8	658.0	654.0	656.3	659.7	666.5	670.4	671.5	673.8
122.5°	633.1	631.9	631.9	630.2	625.7	628.5	631.9	638.7	642.7	643.3	645.0
125°	602.5	603.1	601.4	600.3	596.3	599.7	602.5	609.3	612.7	613.3	615.0
127.5°	569.7	571.4	569.7	568.0	565.2	568.6	572.0	578.2	581.0	581.6	582.7
130°	539.2	539.2	537.5	536.3	533.5	536.9	540.3	545.9	548.8	548.8	549.9
132.5°	508.6	506.9	506.3	505.2	501.8	505.8	508.0	513.7	516.0	515.4	516.5
135°	475.2	475.2	473.5	473.0	470.1	474.1	476.4	481.5	483.2	482.6	483.7
137.5°	444.1	444.1	443.0	441.9	440.2	443.5	445.8	449.8	451.5	449.8	451.5
140°	413.6	413.6	413.0	411.9	410.2	413.6	415.3	418.7	420.4	418.7	419.8
142.5°	385.3	384.1	383.6	383.0	380.7	384.1	385.3	388.7	389.2	388.1	389.8
145°	355.3	355.9	355.3	354.7	353.0	355.9	357.0	359.8	360.4	359.3	360.9
147.5°	330.4	328.7	329.3	328.7	327.0	329.8	330.4	332.1	333.2	332.1	333.2
150°	305.5	304.4	304.4	303.8	302.7	304.9	305.5	307.2	307.8	306.6	307.8
152.5°	283.4	282.9	282.9	282.3	281.2	282.9	283.4	284.6	285.1	284.0	284.6
155°	263.6	263.1	263.1	262.5	261.4	263.1	263.1	264.2	264.8	264.2	264.8
157.5°	246.1	245.5	245.5	245.5	244.4	245.5	245.5	246.7	246.7	246.1	246.7
160°	232.0	230.8	231.4	230.8	229.7	230.8	230.8	231.4	231.4	231.4	231.4
162.5°	218.9	218.9	218.9	218.4	217.8	218.4	218.4	218.9	218.9	218.9	218.4
165°	208.8	208.8	208.8	208.2	207.6	208.2	208.2	208.2	208.2	208.2	208.2
167.5°	200.3	199.7	200.3	199.7	199.1	199.7	199.7	199.7	199.7	199.7	199.7
170°	192.9	192.9	192.9	192.9	192.4	192.9	192.9	192.9	192.9	192.9	192.9
172.5°	188.4	187.8	187.8	187.8	187.3	187.8	187.3	187.8	187.3	187.8	187.3
175°	184.4	184.4	184.4	184.4	183.9	183.9	183.9	183.9	183.9	183.9	183.9
177.5°	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2
180°	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6

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: SP1-2406-133-3

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-3
 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-100-727-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2707
 CIE u': 0.2624
 CIE v': 0.5261
 Duv: -0.0007
 CIE x: 0.4580
 CIE y: 0.4082
 CIE z: 0.1338
 Peak Wavelength (nm): 599
 Dominant Wavelength (nm): 584
 Purity: 59.99901
 Rf: 75.5
 Rg: 92.5

CRI (Ra):	71.3		
R1:	67.8	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



Test Conditions
 Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

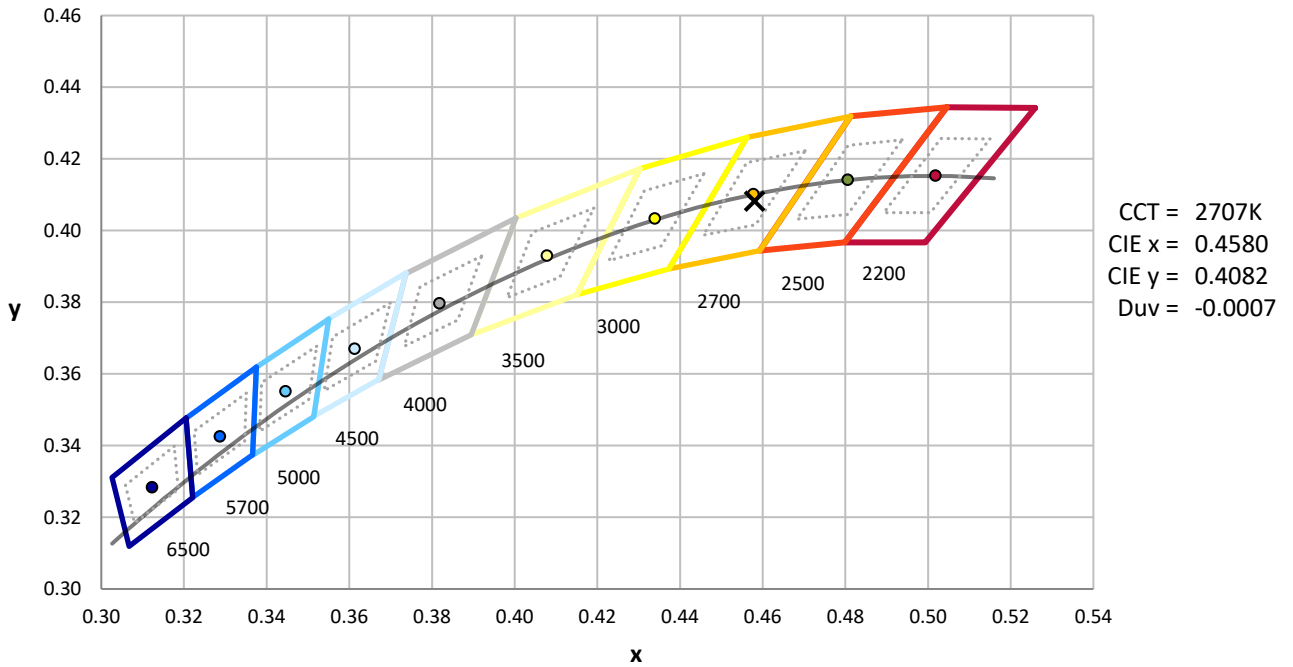
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-3

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-3

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-3

Scotopic Flux vs. Wavelength



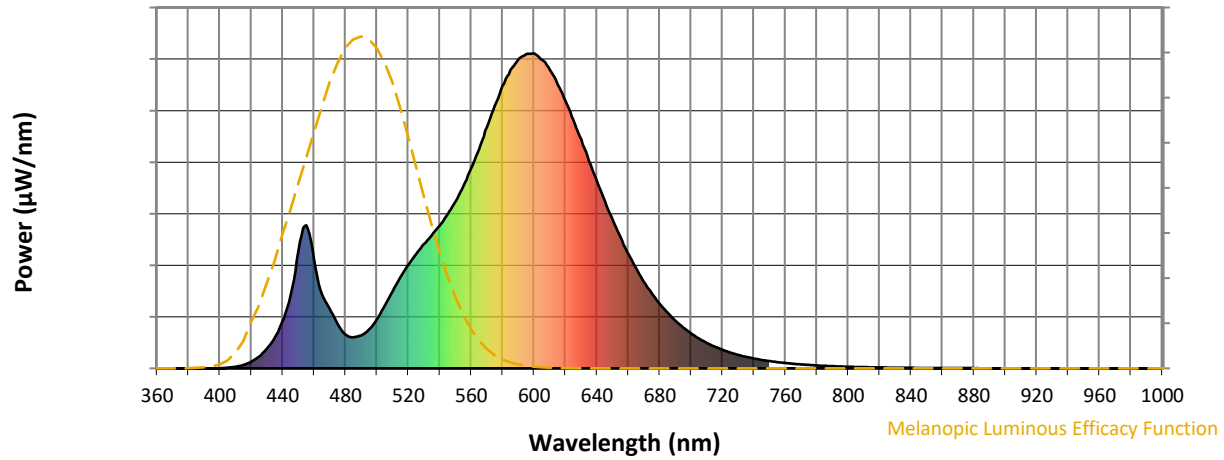
Scotopic Lumens: NR

S/P: 1.12

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

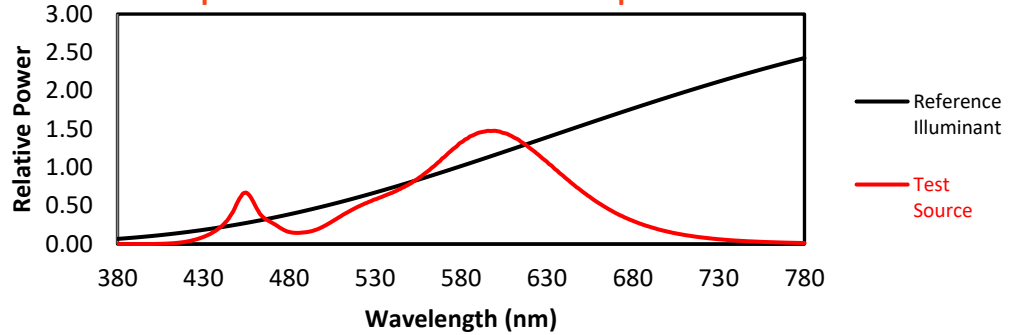
REPORT NUMBER: SP1-2406-133-3

TM-30-18

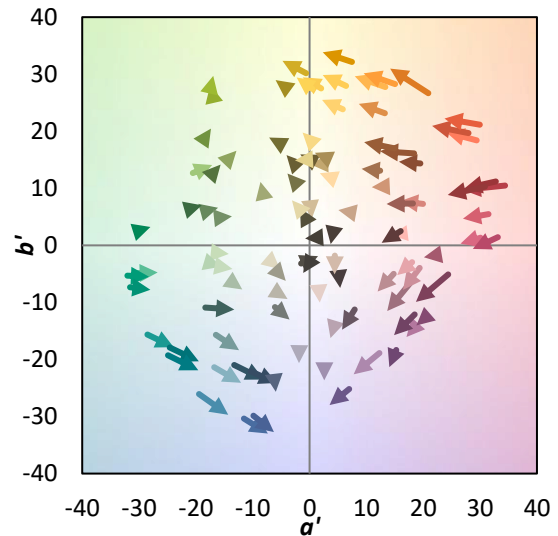
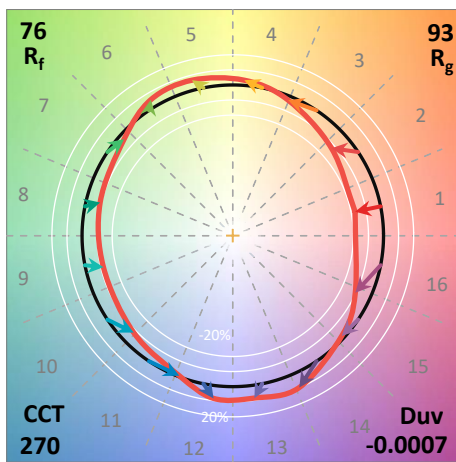
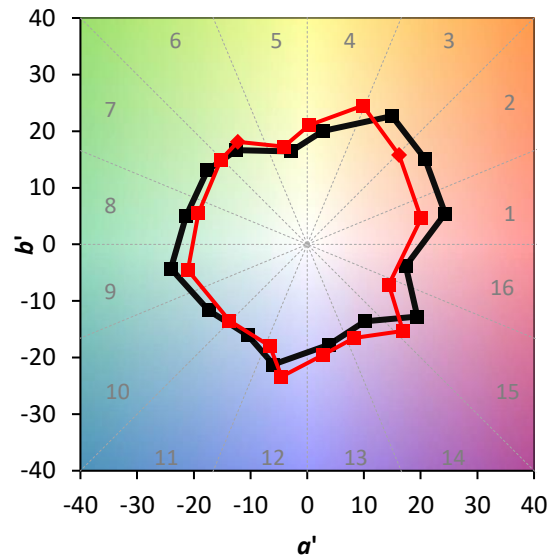
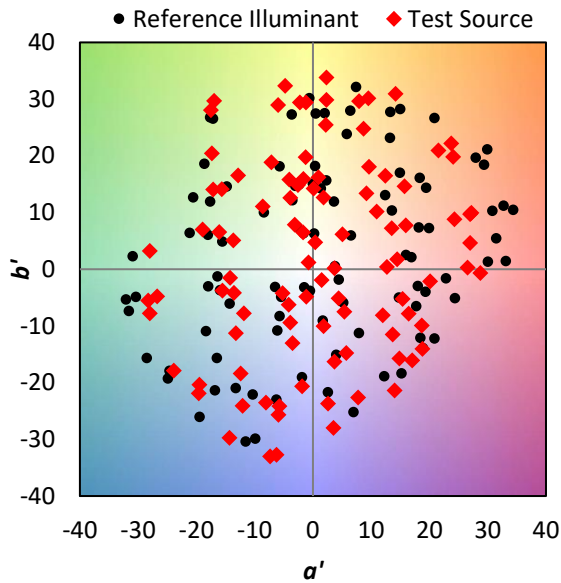
Summary

$R_f = 75.5$
 $R_g = 92.5$
 CIE $R_a = 71.3$
 $R_9 = -34.9$

Spectral Power Distribution Comparison



Color Vector Graphics



REPORT NUMBER: SP1-2406-133-3

TM-30-18

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

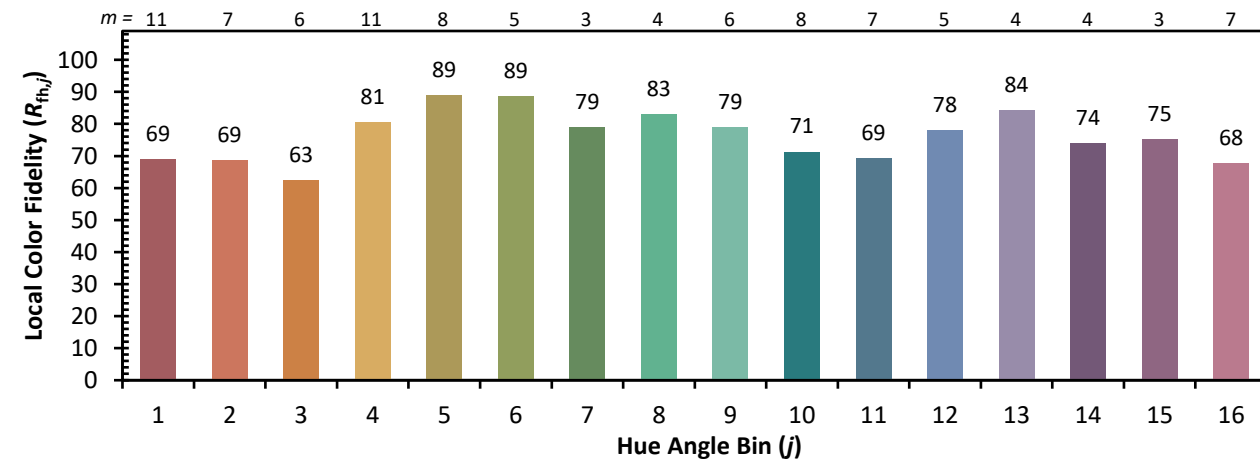
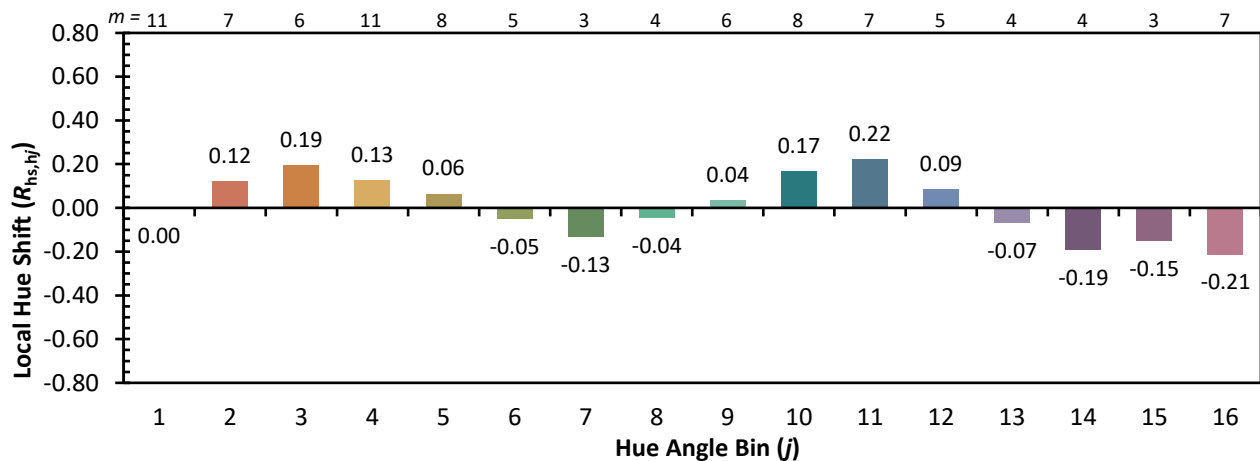
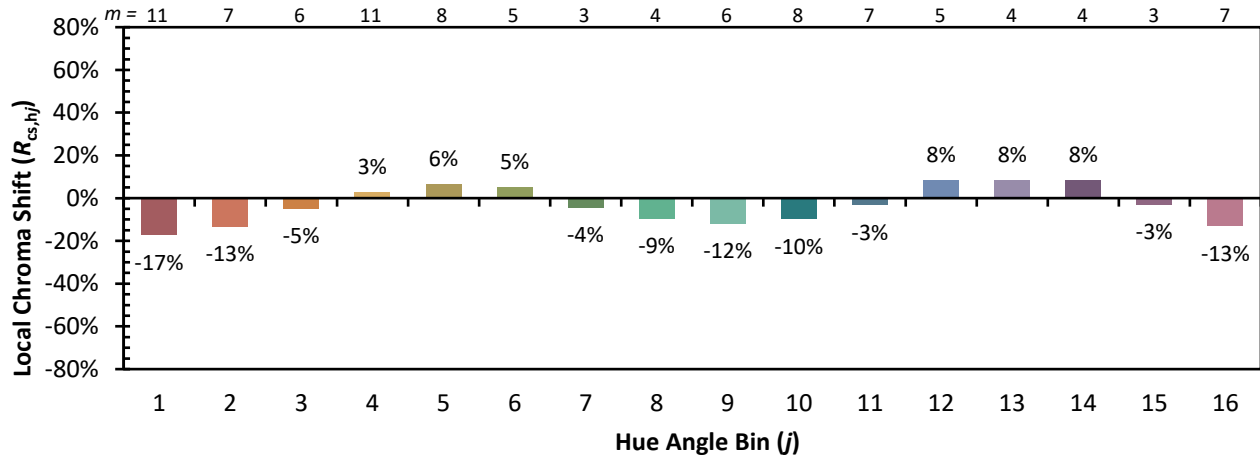
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CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
CES11 = 60	CES36 = 90	CES61 = 80	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 87	CES87 = 77
CES13 = 43	CES38 = 99	CES63 = 78	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 64	CES89 = 65
CES15 = 72	CES40 = 94	CES65 = 66	CES90 = 81
CES16 = 48	CES41 = 96	CES66 = 60	CES91 = 78
CES17 = 51	CES42 = 90	CES67 = 58	CES92 = 54
CES18 = 57	CES43 = 80	CES68 = 66	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 82	CES71 = 60	CES96 = 76
CES22 = 80	CES47 = 90	CES72 = 86	CES97 = 80
CES23 = 92	CES48 = 75	CES73 = 57	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 92	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



REPORT NUMBER: SP1-2406-133-3

TM-30-18

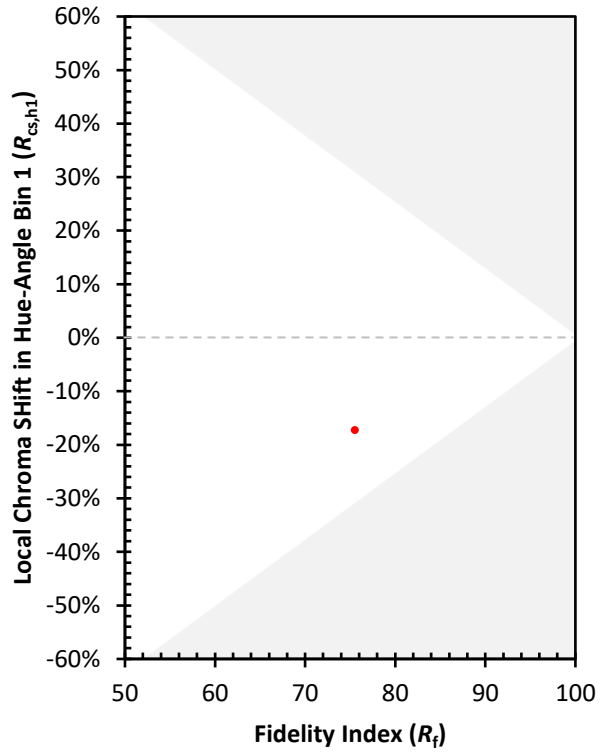
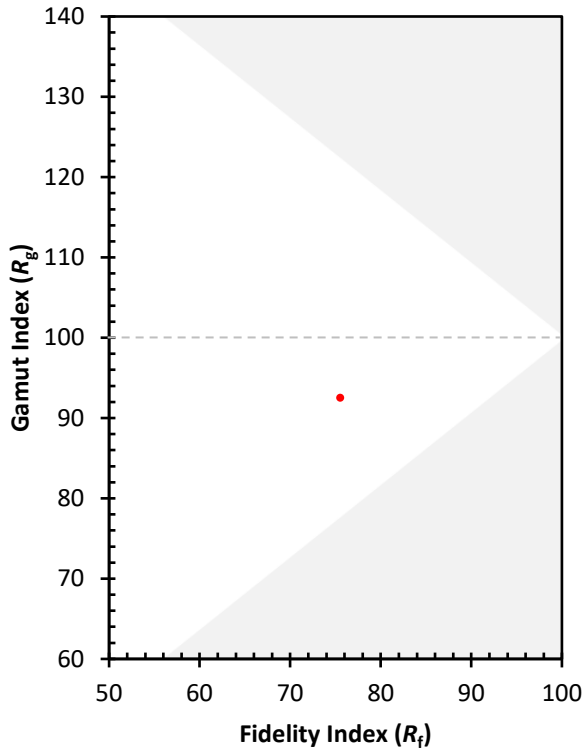
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-3

TM-30-18

Measure Comparisons



(END OF REPORT)