

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: P856156

Luminaire Tested: **FFX-CLB-90-727-U-FR-T5-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856156
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-90-727-U-FR-T5-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

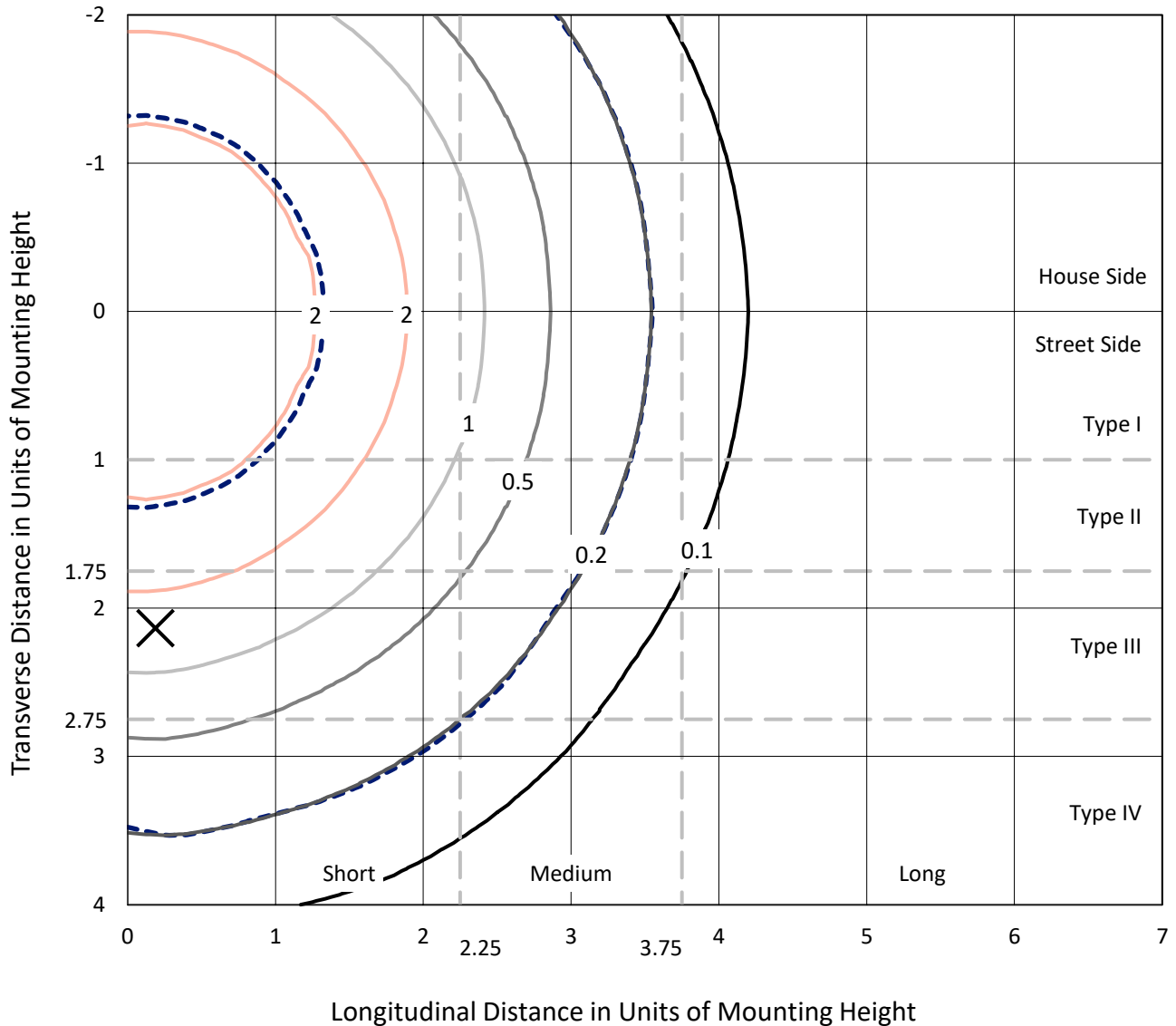
Lumens per Lamp: N/A
Luminaire Lumens: 13044.9 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B4 - U5 - G3

Input Watts (W): 90.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.6%%
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

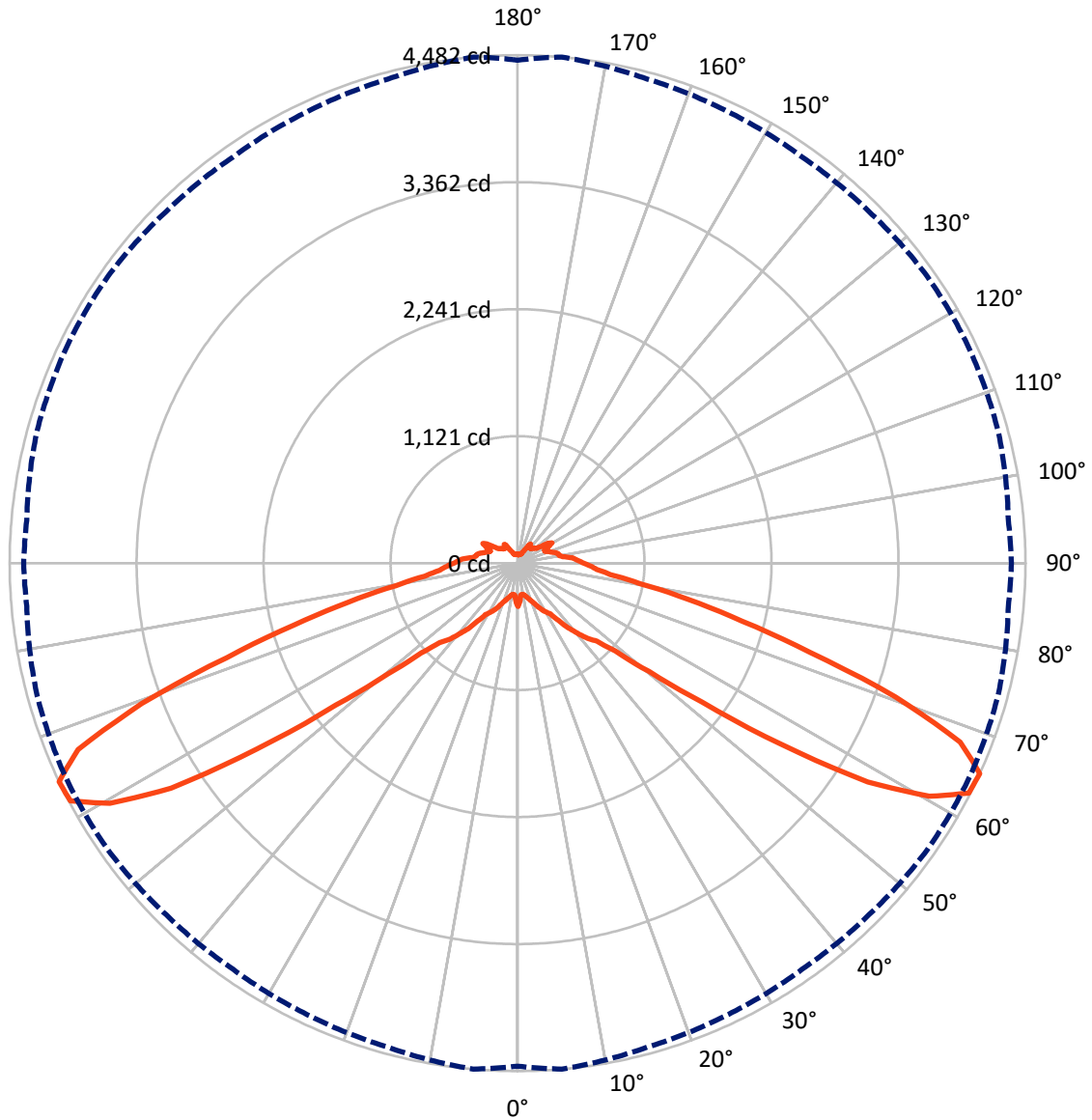
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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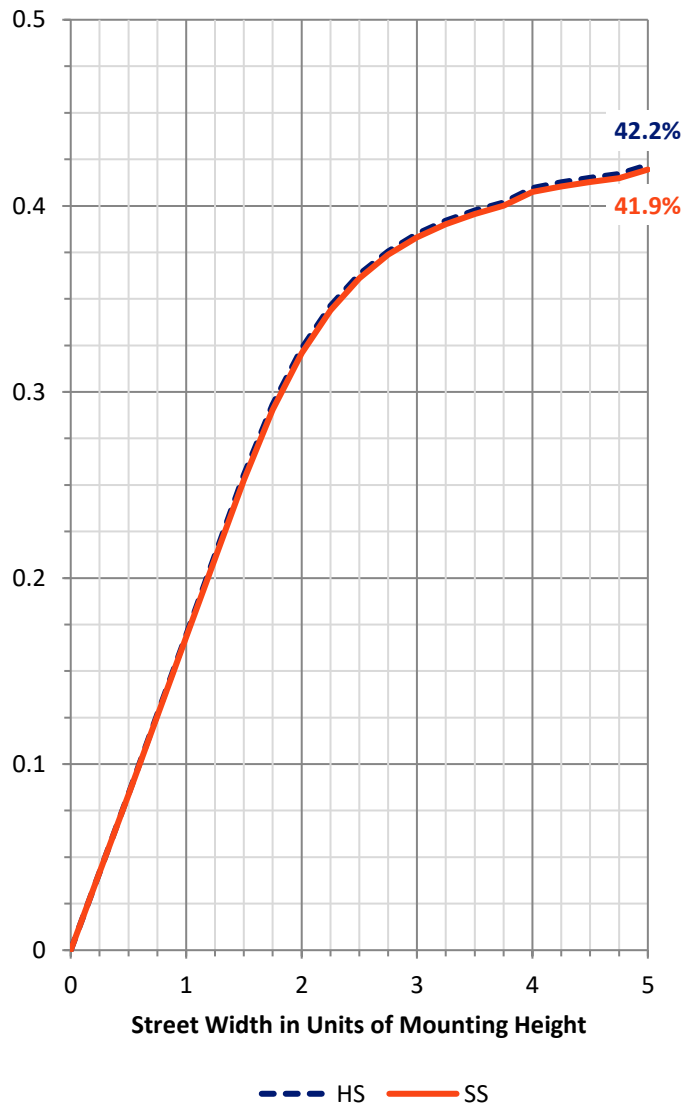
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5698.2	824.2	6522.4
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	5698.2	824.2	6522.4
	% Fixture	43.7	6.3	50.0
Total	Lumens	11396.4	1648.5	13044.9
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.7	0.2
10°-20°	91.6	0.7
20°-30°	198.6	1.5
30°-40°	402.2	3.1
40°-50°	810.8	6.2
50°-60°	2577.9	19.8
60°-70°	4157.3	31.9
70°-80°	2267.1	17.4
80°-90°	863.3	6.6
90°-100°	518.0	4.0
100°-110°	330.4	2.5
110°-120°	251.3	1.9
120°-130°	212.6	1.6
130°-140°	138.5	1.1
140°-150°	116.1	0.9
150°-160°	52.0	0.4
160°-170°	22.1	0.2
170°-180°	7.4	0.1
0°-90°	11396.4	87.4
0°-180°	13044.9	100.0



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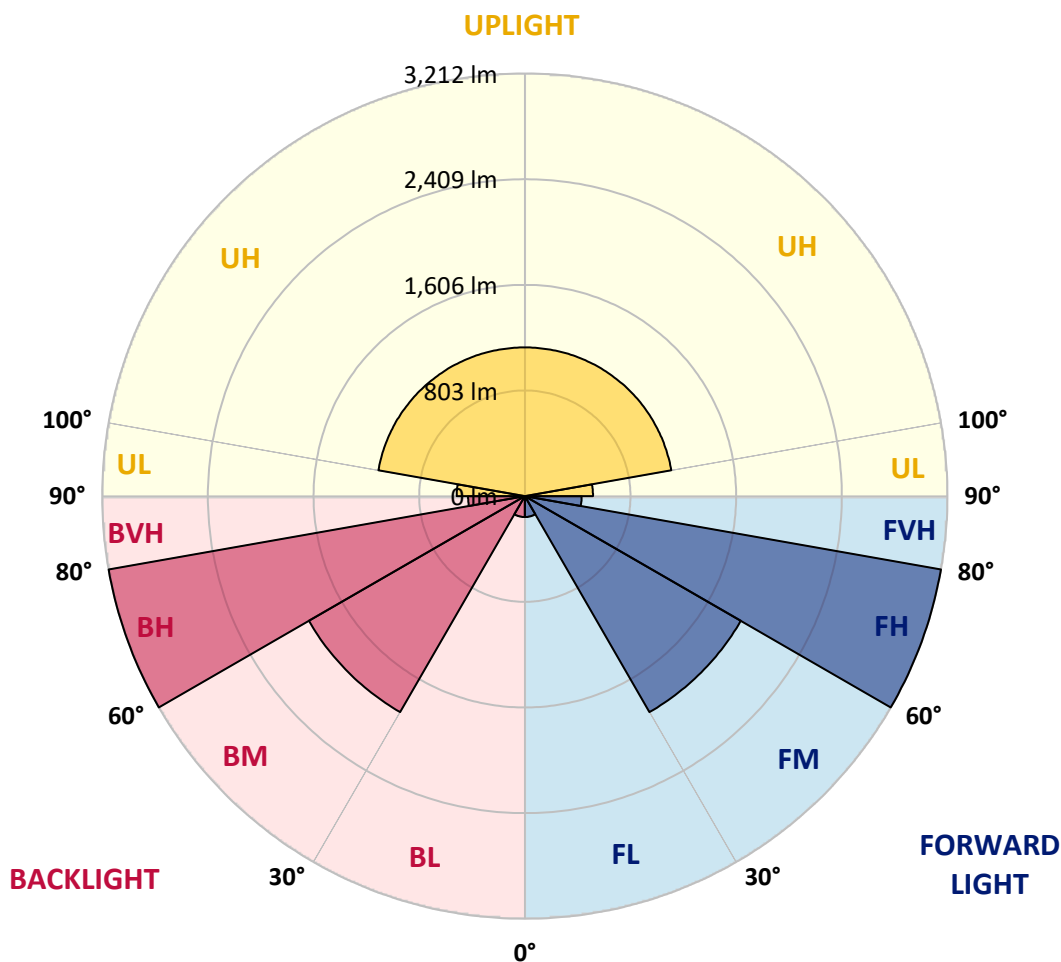
CATALOG NUMBER: FFX-CLB-90-727-U-FR-T5-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.9	1.2			
FM (30°-60°)	1895.5	14.5			
FH (60°-80°)	3212.2	24.6			G2/5000
FVH (80°-90°)	431.6	3.3			G3/500
BL (0°-30°)	158.9	1.2	B1/500		
BM (30°-60°)	1895.5	14.5	B2/2500		
BH (60°-80°)	3212.2	24.6	B4/5000		G2/5000
BVH (80°-90°)	431.6	3.3			G3/500
UL (90°-100°)	518.0	4.0		U4/1000	
UH (100°-180°)	1130.5	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°	382.8	382.8	382.8	382.8	382.8	382.8	382.8	382.8	382.8	382.8	382.8
2.5°	341.9	347.4	332.4	320.1	314.7	316.1	328.3	340.6	328.3	332.4	332.4
5°	283.4	284.7	284.7	282.0	286.1	277.9	268.4	268.4	277.9	288.8	288.8
7.5°	273.8	277.9	288.8	288.8	292.9	279.3	265.7	267.0	280.6	297.0	301.1
10°	282.0	282.0	279.3	282.0	291.5	290.2	275.2	268.4	277.9	294.3	299.7
12.5°	294.3	294.3	302.4	314.7	316.1	303.8	288.8	287.5	298.4	309.2	309.2
15°	312.0	313.3	317.4	316.1	320.1	316.1	312.0	314.7	321.5	321.5	321.5
17.5°	335.1	335.1	335.1	335.1	335.1	336.5	337.9	337.9	337.9	340.6	340.6
20°	361.0	361.0	359.7	358.3	358.3	359.7	361.0	361.0	361.0	363.7	363.7
22.5°	393.7	392.4	389.6	389.6	389.6	391.0	388.3	386.9	385.5	386.9	386.9
25°	431.9	431.9	429.1	425.0	425.0	423.7	419.6	418.2	416.9	419.6	418.2
27.5°	470.0	470.0	465.9	460.5	460.5	460.5	457.7	455.0	452.3	453.7	453.7
30°	505.4	502.7	501.3	497.3	495.9	497.3	494.5	494.5	489.1	487.7	490.4
32.5°	538.1	535.4	538.1	534.0	529.9	534.0	532.7	532.7	524.5	521.8	524.5
35°	628.0	621.2	626.7	617.1	611.7	613.0	615.8	621.2	613.0	609.0	610.3
37.5°	724.8	723.4	741.1	756.1	753.4	730.2	715.2	717.9	728.8	743.8	743.8
40°	814.7	811.9	816.0	810.6	810.6	807.9	806.5	813.3	791.5	786.1	782.0
42.5°	908.7	907.3	884.2	851.5	844.6	871.9	884.2	893.7	862.4	851.5	843.3
45°	1001.3	982.2	978.2	967.3	956.4	974.1	972.7	979.5	964.5	963.2	956.4
47.5°	1196.1	1160.7	1148.4	1149.8	1126.6	1145.7	1153.9	1175.7	1144.4	1145.7	1144.4
50°	1547.6	1502.6	1523.1	1509.5	1484.9	1508.1	1506.7	1546.2	1494.5	1513.5	1505.4
52.5°	2096.6	2035.3	2047.6	2039.4	2014.9	2062.6	2073.5	2132.0	2032.6	2057.1	2050.3
55°	2890.9	2824.1	2851.4	2753.3	2727.4	2821.4	2856.8	2924.9	2792.8	2806.4	2799.6
57.5°	3648.3	3644.2	3690.5	3621.1	3597.9	3664.7	3632.0	3691.9	3621.1	3671.5	3655.1
60°	4164.6	4175.5	4221.9	4242.3	4201.4	4236.8	4157.8	4202.8	4181.0	4254.6	4247.7
62.5°	4433.0	4468.4	4441.2	4442.6	4397.6	4424.8	4409.9	4435.7	4430.3	4437.1	4430.3
65°	4438.5	4482.1	4422.1	4394.9	4375.8	4386.7	4412.6	4412.6	4396.2	4347.2	4358.1
67.5°	4148.3	4213.7	4146.9	4108.8	4119.7	4115.6	4133.3	4110.1	4100.6	4028.4	4029.8
70°	3434.4	3539.3	3441.2	3405.8	3434.4	3452.1	3450.8	3431.7	3416.7	3326.8	3352.7
72.5°	2607.5	2700.1	2612.9	2599.3	2626.6	2653.8	2630.7	2653.8	2629.3	2588.4	2600.7
75°	1968.6	2047.6	2047.6	2099.3	2107.5	2092.5	2028.5	2054.4	2070.7	2072.1	2084.4
77.5°	1448.2	1531.3	1574.9	1659.3	1655.2	1629.3	1551.7	1581.7	1613.0	1634.8	1649.8
80°	1029.9	1092.6	1156.6	1216.6	1224.7	1202.9	1155.3	1173.0	1192.0	1207.0	1215.2
82.5°	798.3	826.9	814.7	807.9	818.8	850.1	861.0	871.9	844.6	826.9	833.7
85°	696.2	698.9	720.7	735.7	739.7	739.7	728.8	737.0	743.8	761.5	761.5
87.5°	634.8	637.6	692.1	707.0	712.5	705.7	692.1	697.5	703.0	713.9	713.9
90°	564.0	572.2	626.7	638.9	644.4	633.5	629.4	633.5	626.7	630.8	630.8
92.5°	524.5	524.5	550.4	544.9	543.6	544.9	546.3	550.4	543.6	540.8	540.8
95°	479.5	486.4	479.5	485.0	483.6	476.8	474.1	476.8	472.7	472.7	475.5
97.5°	401.9	403.2	391.0	395.1	395.1	389.6	382.8	385.5	381.5	384.2	385.5
100°	376.0	371.9	351.5	348.8	347.4	343.3	339.2	339.2	337.9	336.5	337.9
102.5°	367.8	367.8	340.6	335.1	332.4	325.6	320.1	320.1	320.1	320.1	321.5
105°	336.5	346.0	325.6	321.5	317.4	309.2	301.1	299.7	302.4	299.7	303.8
107.5°	305.2	313.3	302.4	302.4	298.4	290.2	284.7	283.4	284.7	282.0	284.7
110°	287.5	291.5	279.3	279.3	276.6	269.7	268.4	267.0	267.0	262.9	265.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	265.7	265.7	256.1	253.4	253.4	249.3	247.9	246.6	246.6	246.6	247.9
115°	264.3	262.9	247.9	238.4	237.0	235.7	237.0	235.7	235.7	234.3	234.3
117.5°	322.9	309.2	258.8	235.7	235.7	237.0	242.5	238.4	228.9	228.9	227.5
120°	348.8	351.5	298.4	273.8	268.4	261.6	260.2	257.5	247.9	246.6	252.0
122.5°	307.9	321.5	288.8	279.3	273.8	265.7	260.2	258.8	258.8	252.0	261.6
125°	239.8	252.0	235.7	234.3	233.0	234.3	231.6	231.6	234.3	230.2	231.6
127.5°	205.7	211.2	204.3	204.3	203.0	201.6	198.9	200.3	198.9	200.3	201.6
130°	197.5	201.6	194.8	192.1	192.1	193.5	193.5	193.5	189.4	186.6	188.0
132.5°	196.2	194.8	183.9	178.5	178.5	188.0	192.1	192.1	182.6	175.7	175.7
135°	177.1	178.5	177.1	170.3	171.7	174.4	178.5	179.8	170.3	166.2	167.6
137.5°	170.3	174.4	175.7	173.0	173.0	170.3	168.9	170.3	167.6	168.9	168.9
140°	170.3	171.7	175.7	178.5	175.7	173.0	173.0	173.0	174.4	178.5	181.2
142.5°	174.4	175.7	174.4	173.0	177.1	183.9	189.4	189.4	185.3	182.6	183.9
145°	200.3	204.3	204.3	200.3	203.0	200.3	200.3	197.5	197.5	197.5	198.9
147.5°	190.7	189.4	192.1	196.2	192.1	190.7	190.7	192.1	194.8	196.2	197.5
150°	149.9	145.8	148.5	156.7	155.3	155.3	155.3	156.7	158.0	158.0	159.4
152.5°	118.5	118.5	121.2	121.2	122.6	122.6	121.2	121.2	121.2	122.6	122.6
155°	106.3	104.9	107.6	111.7	109.0	109.0	109.0	109.0	109.0	109.0	110.3
157.5°	92.6	91.3	91.3	92.6	92.6	92.6	92.6	94.0	94.0	92.6	94.0
160°	84.5	84.5	83.1	83.1	83.1	84.5	85.8	85.8	84.5	83.1	83.1
162.5°	80.4	80.4	77.7	76.3	76.3	77.7	80.4	80.4	77.7	76.3	76.3
165°	80.4	79.0	74.9	72.2	72.2	74.9	79.0	79.0	74.9	72.2	72.2
167.5°	79.0	79.0	76.3	73.6	73.6	76.3	77.7	79.0	77.7	74.9	73.6
170°	76.3	76.3	77.7	77.7	76.3	76.3	76.3	76.3	77.7	77.7	77.7
172.5°	79.0	77.7	79.0	80.4	80.4	79.0	77.7	77.7	79.0	80.4	80.4
175°	80.4	80.4	79.0	79.0	79.0	77.7	77.7	77.7	79.0	80.4	79.0
177.5°	72.2	72.2	70.8	72.2	72.2	72.2	70.8	72.2	72.2	72.2	73.6
180°	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1

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

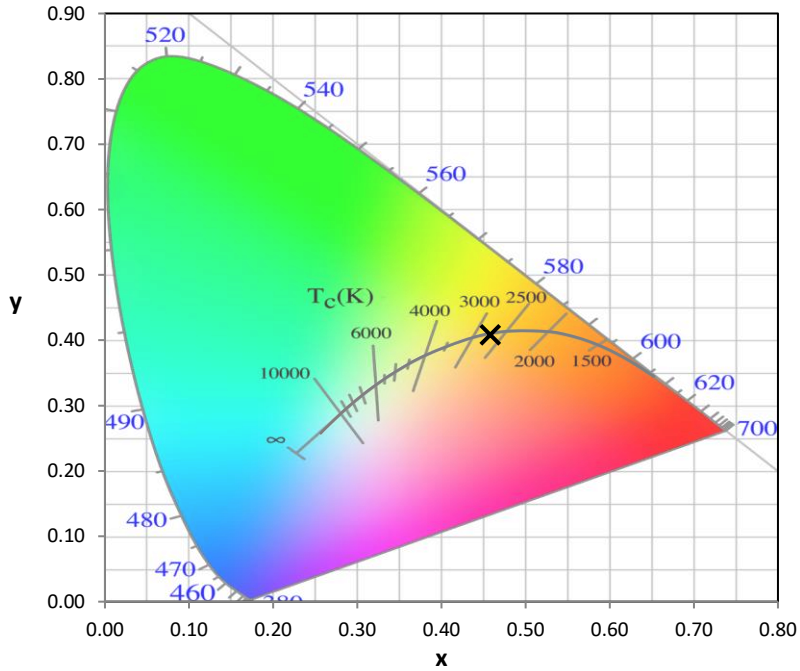
Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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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

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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

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Photopic Flux vs. Wavelength

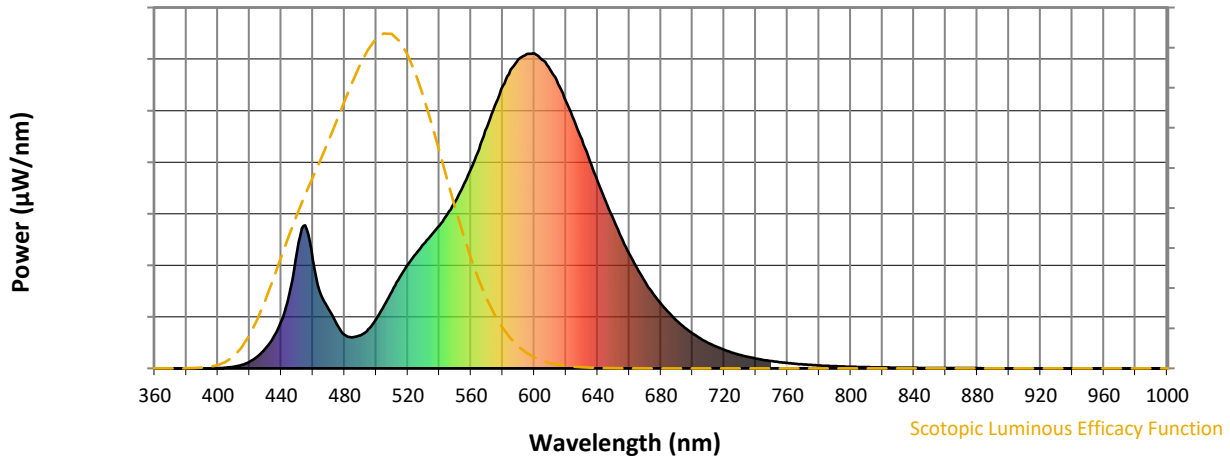


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength



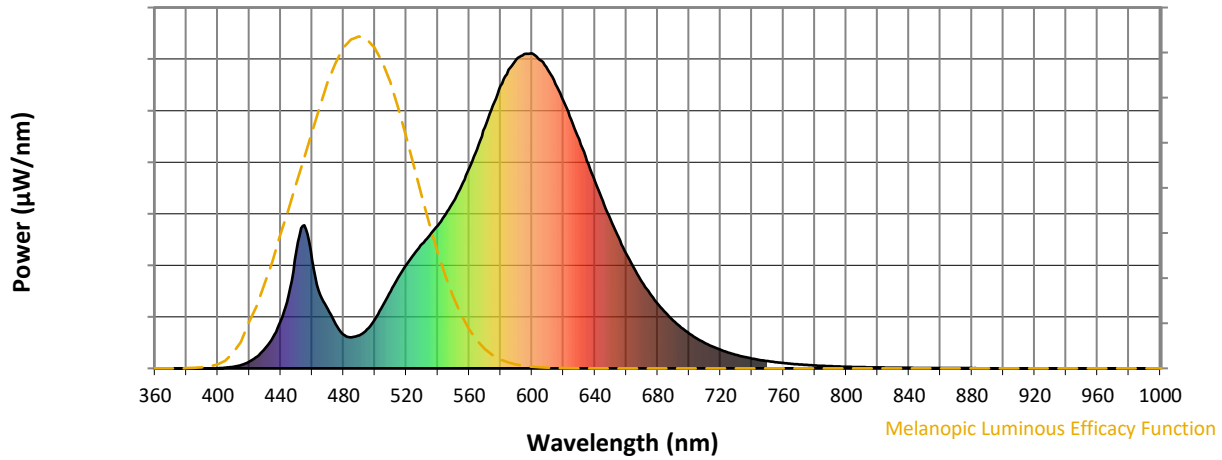
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

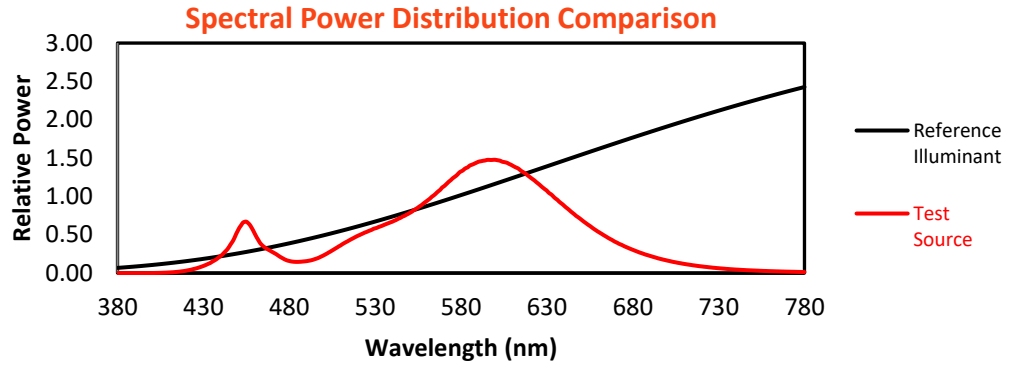
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	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			

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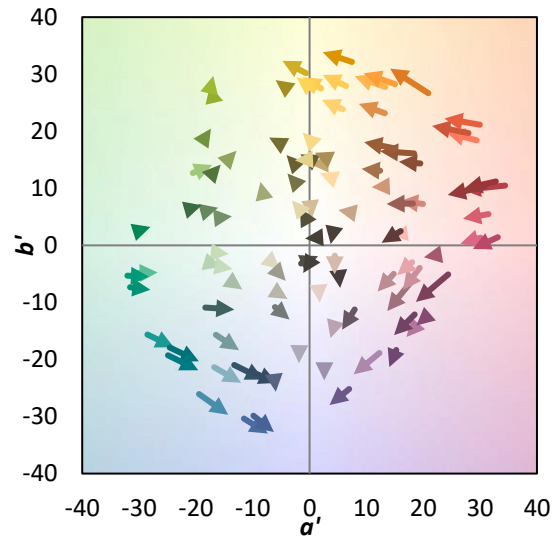
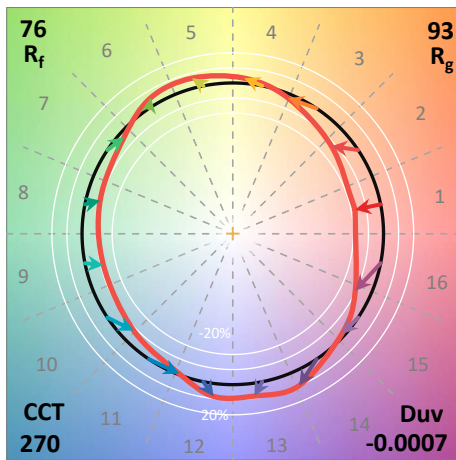
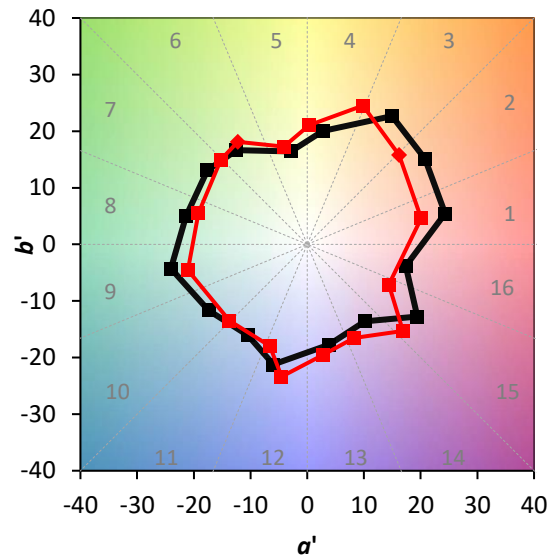
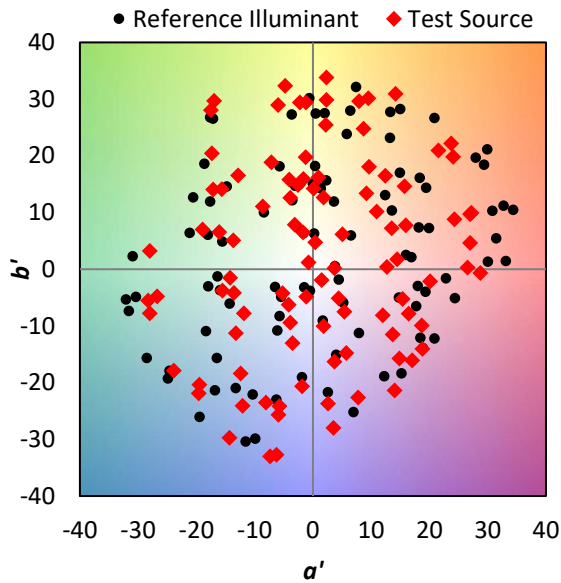
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Summary

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



Color Vector Graphics



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

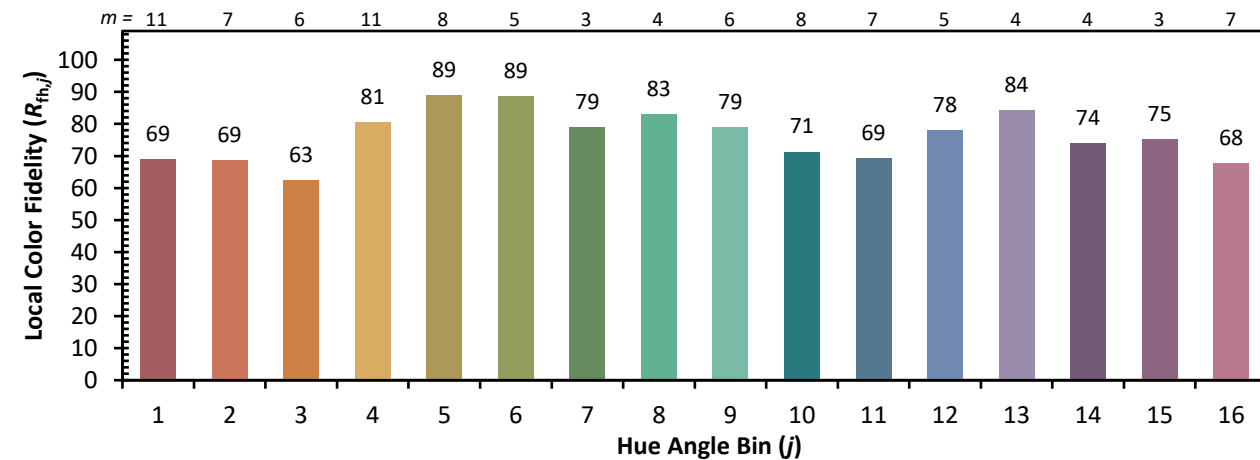
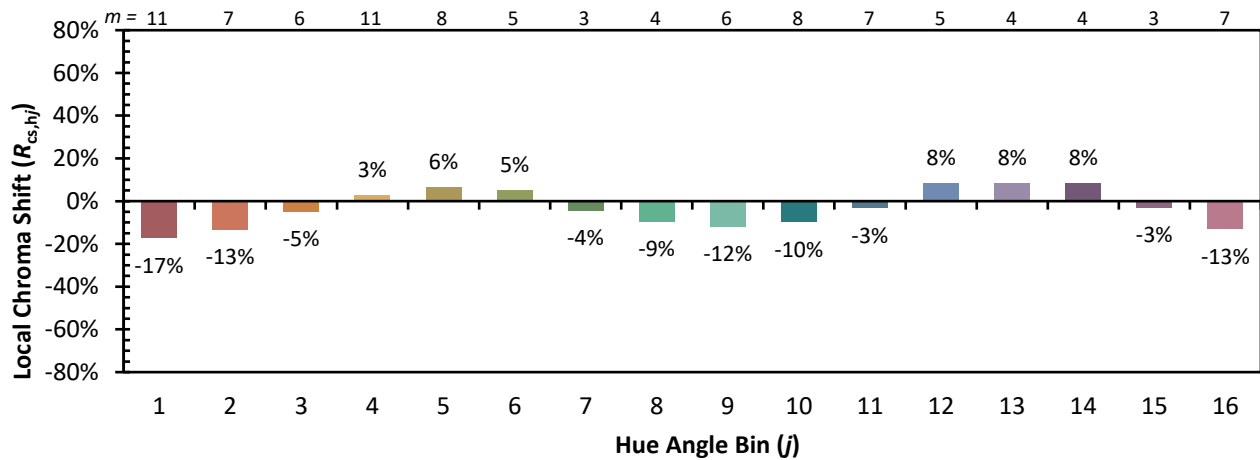
CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 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	



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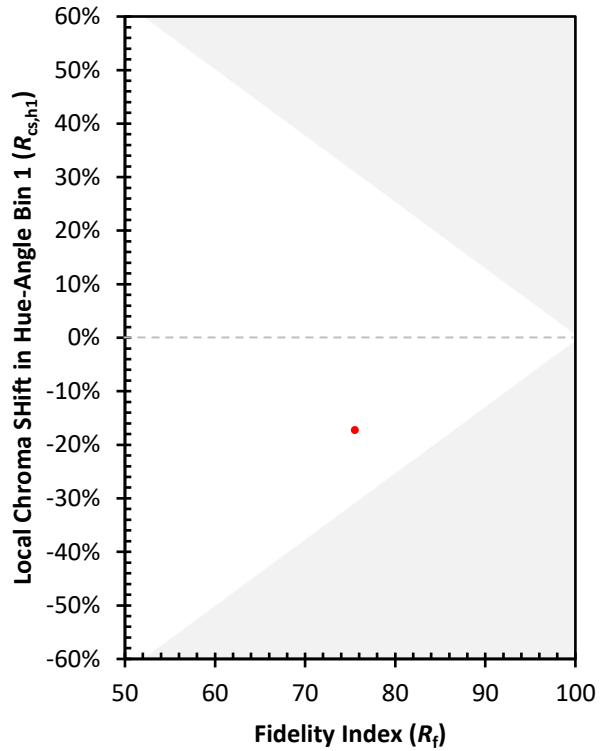
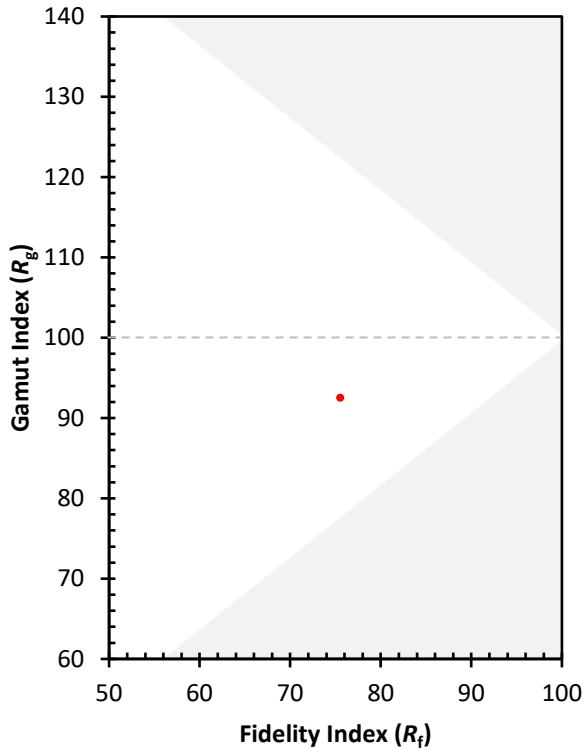
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)