

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: P856081

Luminaire Tested: **FFX-CLB-30-730-U-FR-T5**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856081
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-30-730-U-FR-T5
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

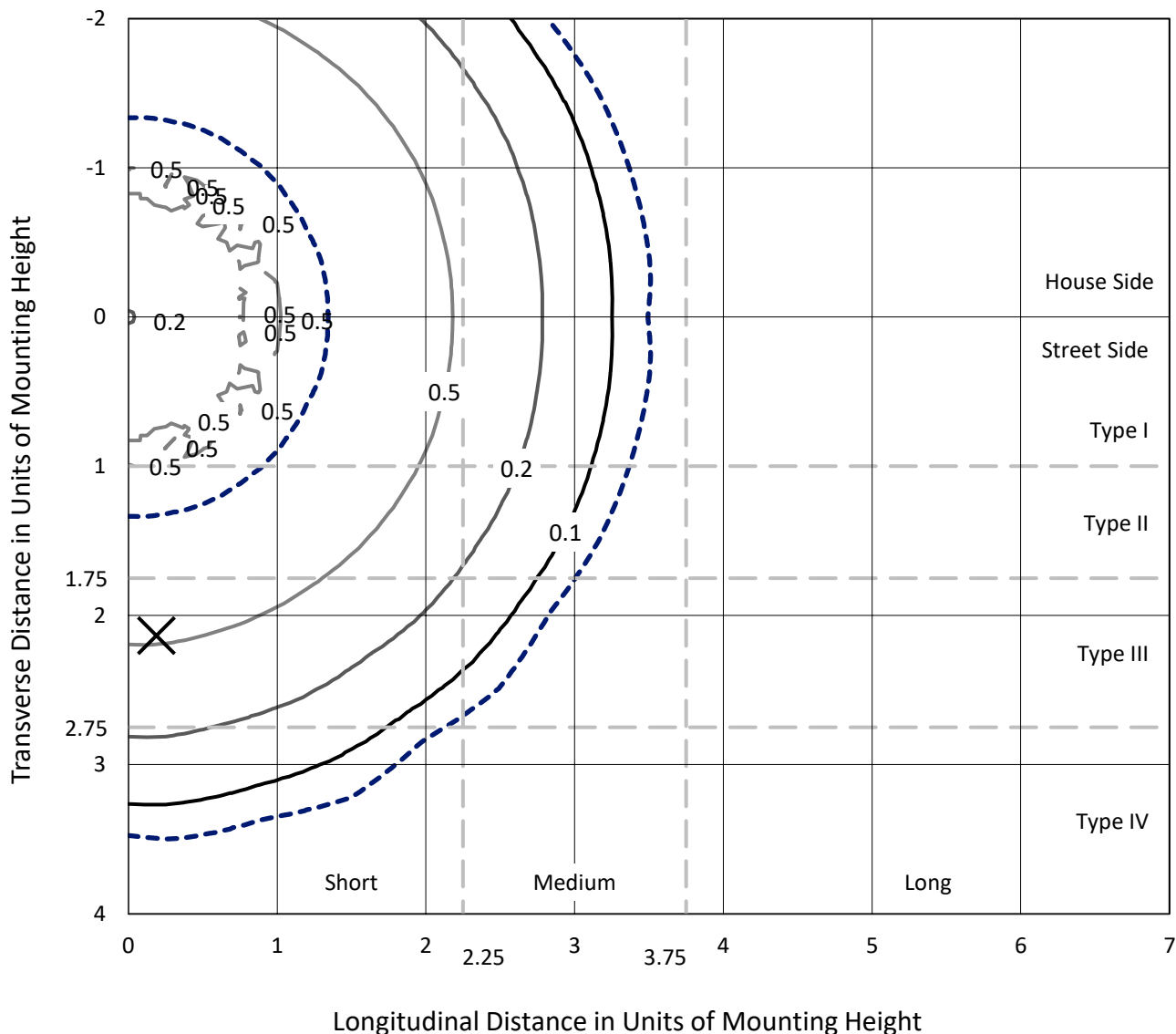
Lumens per Lamp: N/A
Luminaire Lumens: 4937.8 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 10.6%%
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

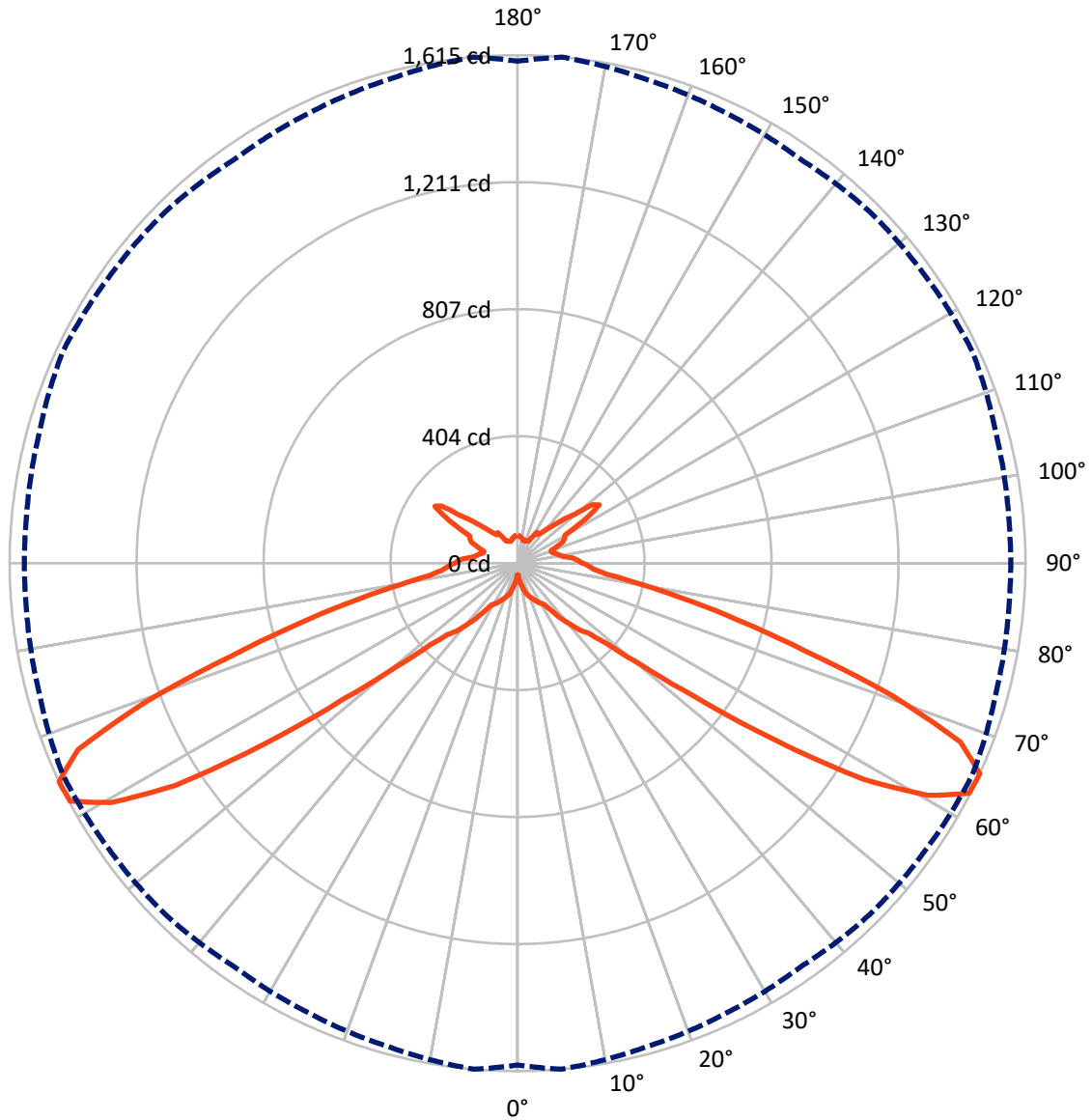
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.9 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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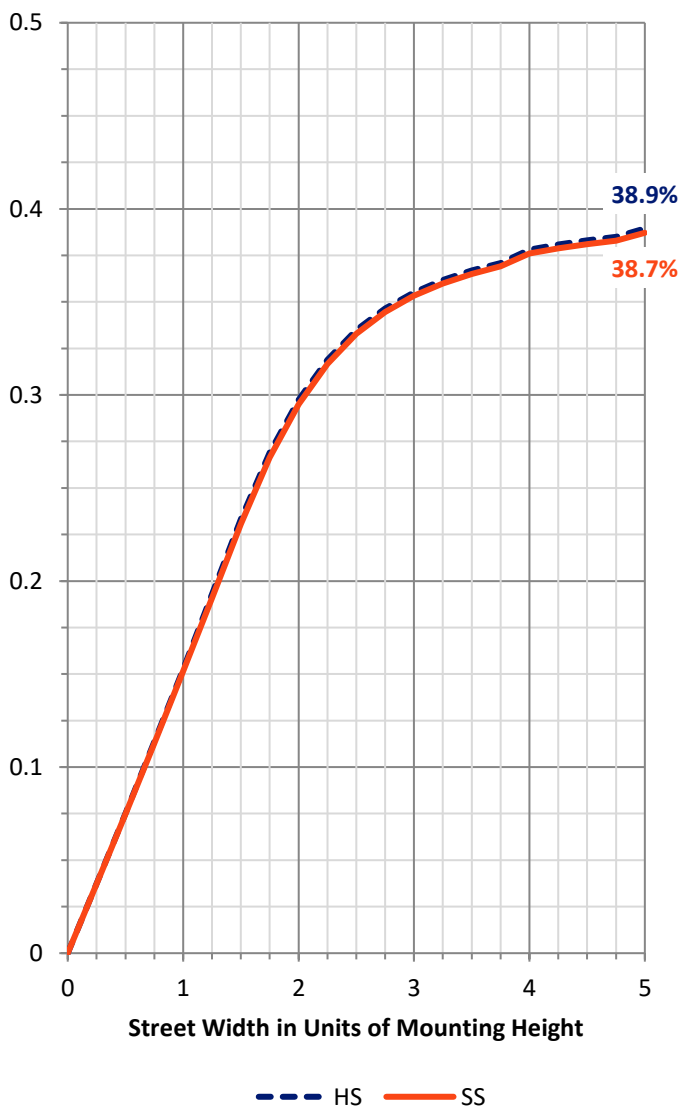
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1989.7	479.2	2468.9
	% Fixture	40.3	9.7	50.0
Street Side	Lumens	1989.7	479.2	2468.9
	% Fixture	40.3	9.7	50.0
Total	Lumens	3979.4	958.4	4937.8
	% Fixture	80.6	19.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.1
10°-20°	28.2	0.6
20°-30°	61.3	1.2
30°-40°	121.6	2.5
40°-50°	263.7	5.3
50°-60°	908.1	18.4
60°-70°	1491.5	30.2
70°-80°	800.5	16.2
80°-90°	298.9	6.1
90°-100°	188.8	3.8
100°-110°	126.4	2.6
110°-120°	139.0	2.8
120°-130°	230.0	4.7
130°-140°	135.4	2.7
140°-150°	71.6	1.5
150°-160°	37.6	0.8
160°-170°	21.4	0.4
170°-180°	8.0	0.2
0°-90°	3979.4	80.6
0°-180°	4937.8	100.0

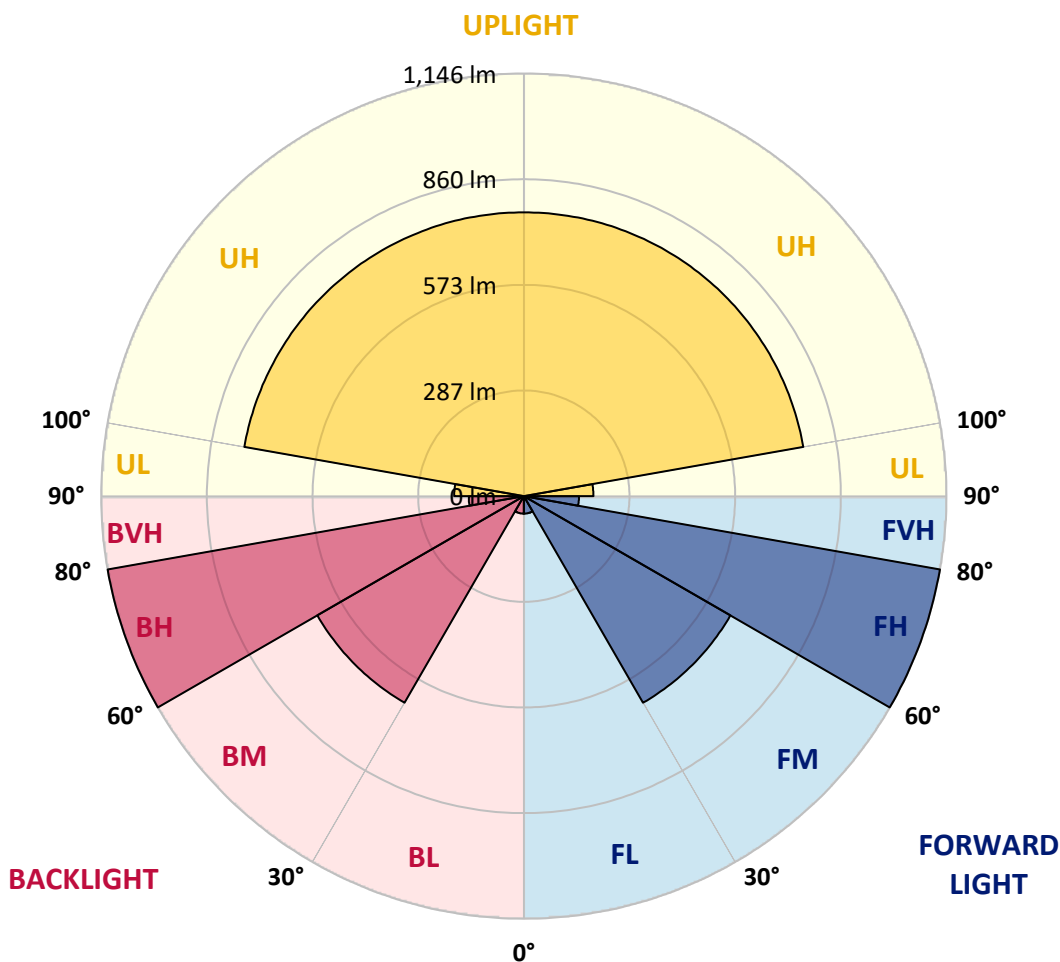


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	47.5	1.0			
FM (30°-60°)	646.7	13.1			
FH (60°-80°)	1146.0	23.2			G1/1800
FVH (80°-90°)	149.5	3.0			G2/225
BL (0°-30°)	47.5	1.0	B0/110		
BM (30°-60°)	646.7	13.1	B1/1000		
BH (60°-80°)	1146.0	23.2	B3/2500		G1/1800
BVH (80°-90°)	149.5	3.0			G2/225
UL (90°-100°)	188.8	3.8		U3/500	
UH (100°-180°)	769.5	15.6		U4/1000	

BUG Rating: B3-U4-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
2.5°	38.8	38.8	38.2	37.7	38.2	38.8	38.8	39.3	38.2	38.2	38.8
5°	51.8	51.8	51.8	51.3	50.3	50.3	49.8	51.3	51.8	52.3	52.3
7.5°	64.4	63.9	64.9	65.4	62.9	61.9	61.9	62.4	63.4	64.4	65.4
10°	73.0	72.5	73.0	75.0	74.5	73.0	73.0	73.0	74.5	77.0	77.5
12.5°	86.1	86.1	87.1	88.6	89.1	87.6	86.6	86.6	88.6	89.1	88.6
15°	100.2	100.2	99.7	99.1	99.7	99.1	99.1	99.7	101.2	100.7	100.7
17.5°	107.7	107.2	106.7	107.2	107.2	106.7	107.2	108.2	107.7	109.2	109.7
20°	115.8	115.8	114.7	114.7	114.7	115.3	115.8	115.3	115.8	116.3	116.8
22.5°	123.3	123.3	122.8	122.3	122.8	123.3	123.8	122.8	122.8	123.8	123.8
25°	131.9	131.9	131.9	130.4	130.9	131.4	130.9	130.4	130.9	131.4	131.9
27.5°	141.4	141.4	140.4	138.9	139.4	139.4	139.9	138.9	139.9	139.9	139.9
30°	149.5	148.5	148.0	147.0	147.0	148.0	149.0	147.5	148.0	148.0	148.5
32.5°	157.0	157.0	156.5	154.5	154.0	157.0	158.0	157.5	155.5	156.0	156.5
35°	185.2	185.2	181.7	178.2	181.2	180.7	184.7	184.7	184.7	185.7	187.7
37.5°	220.4	222.0	227.5	235.5	235.5	224.0	217.9	217.4	225.5	232.5	232.0
40°	251.6	253.2	251.6	252.7	251.6	252.1	252.7	251.6	247.1	245.6	242.6
42.5°	290.4	290.9	281.3	270.3	271.3	276.8	283.4	283.9	274.3	269.8	268.8
45°	317.6	318.6	315.1	313.5	313.5	315.6	315.1	315.1	311.5	311.0	310.0
47.5°	384.0	382.0	375.0	372.4	375.5	373.9	383.5	381.0	377.0	377.0	380.5
50°	509.3	507.3	507.8	505.3	513.4	501.8	513.4	510.3	504.3	507.3	509.8
52.5°	714.2	701.6	703.1	698.1	712.2	701.6	720.7	718.2	698.6	707.1	707.6
55°	1009.1	993.0	992.0	958.3	984.4	988.0	1012.1	1018.2	979.9	980.4	982.9
57.5°	1301.5	1296.5	1312.6	1291.4	1310.1	1301.5	1301.0	1312.1	1289.9	1292.9	1301.0
60°	1495.3	1499.3	1517.4	1523.0	1529.5	1517.4	1492.8	1497.8	1496.3	1521.9	1524.0
62.5°	1598.9	1611.0	1597.9	1593.9	1588.4	1592.9	1589.9	1592.9	1583.9	1595.9	1596.4
65°	1595.4	1614.6	1590.9	1576.3	1567.2	1581.3	1585.4	1594.4	1575.3	1567.7	1567.7
67.5°	1494.3	1517.4	1480.2	1478.7	1456.5	1480.2	1473.6	1480.7	1465.6	1455.0	1444.9
70°	1243.1	1264.3	1219.5	1225.0	1186.8	1225.5	1215.4	1228.5	1216.4	1195.8	1183.7
72.5°	936.6	955.2	922.0	930.6	905.4	934.6	919.0	941.2	933.6	924.5	914.5
75°	708.6	723.2	725.2	753.9	723.7	737.8	709.6	722.7	735.3	745.9	734.8
77.5°	521.4	531.5	561.7	593.4	563.7	573.7	545.6	558.1	569.7	587.8	579.8
80°	368.4	380.0	407.7	431.3	409.7	418.7	400.6	407.7	416.7	429.8	421.3
82.5°	286.9	282.8	281.8	275.8	269.3	291.9	296.4	300.5	291.9	288.4	284.4
85°	240.6	241.6	247.6	255.2	255.2	255.7	251.1	253.2	256.7	263.2	263.7
87.5°	220.9	224.0	241.1	247.1	244.6	245.6	241.6	242.6	245.1	248.6	247.6
90°	194.8	202.3	218.4	224.5	220.4	222.5	220.4	222.0	219.9	220.9	218.9
92.5°	190.2	189.7	194.8	194.3	191.8	197.8	197.8	198.8	196.3	194.8	193.8
95°	176.2	175.1	174.6	176.2	170.6	175.1	174.1	176.2	175.1	175.1	173.1
97.5°	147.5	147.5	146.5	148.0	144.4	146.5	143.9	145.5	144.9	145.5	143.9
100°	135.9	135.9	134.9	134.9	133.4	133.9	132.9	132.9	132.4	131.9	131.9
102.5°	127.8	128.8	127.3	127.8	125.8	125.8	124.8	125.3	124.8	124.8	124.3
105°	120.3	120.8	119.8	119.8	118.3	117.8	116.8	117.3	117.8	116.8	116.8
107.5°	112.7	113.2	112.7	112.7	111.2	110.2	108.7	108.7	109.2	109.7	109.7
110°	115.8	114.2	112.7	111.7	113.7	110.7	109.7	109.2	109.7	111.2	111.7



REPORT NUMBER: P856081
 CATALOG NUMBER: FFX-CLB-30-730-U-FR-T5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	138.4	137.4	137.4	132.9	137.9	134.9	132.9	129.3	130.9	131.9	131.9
115°	160.5	161.1	155.0	153.0	150.0	149.5	151.0	147.0	146.5	147.0	146.0
117.5°	180.2	169.6	147.0	140.9	139.4	138.4	137.4	136.4	135.4	141.4	134.9
120°	192.8	174.6	158.0	154.5	163.1	151.0	142.9	141.4	144.4	155.0	153.5
122.5°	273.3	257.7	245.6	224.5	245.6	233.5	236.5	231.0	228.0	222.0	223.0
125°	319.6	319.1	313.5	309.5	314.6	310.0	305.0	303.0	300.0	301.5	299.0
127.5°	296.9	301.5	294.4	302.5	284.4	289.4	288.4	291.9	288.9	289.9	285.9
130°	235.0	238.6	232.0	228.0	219.9	229.0	229.5	235.0	229.0	220.9	219.9
132.5°	205.3	207.9	197.8	192.8	187.2	195.3	198.8	201.8	197.8	189.2	187.2
135°	174.6	175.6	168.6	169.6	166.1	166.1	165.6	167.1	169.1	167.6	166.6
137.5°	150.0	152.5	150.0	153.0	150.0	147.5	143.4	144.9	149.5	153.0	152.5
140°	129.8	132.4	132.9	135.9	129.8	130.9	128.3	129.3	131.9	135.4	136.9
142.5°	115.3	117.3	112.7	110.2	108.2	114.2	118.8	119.3	116.3	112.2	113.7
145°	112.2	110.2	112.2	110.2	112.2	111.2	111.7	111.2	111.2	111.2	111.2
147.5°	113.7	115.8	115.8	115.8	112.7	113.2	113.7	114.2	114.2	116.3	115.8
150°	94.6	97.1	96.6	99.1	94.6	95.6	96.1	97.1	97.6	98.1	98.6
152.5°	80.0	80.5	82.0	83.0	82.5	82.0	81.5	81.5	82.5	83.5	84.0
155°	78.0	78.0	79.5	81.0	79.5	79.5	79.0	79.0	79.5	81.0	81.0
157.5°	75.0	75.5	75.5	76.5	75.5	76.0	75.5	75.5	76.0	76.5	77.0
160°	73.5	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.5	74.5
162.5°	73.5	73.5	73.5	73.0	73.0	73.5	73.5	73.5	73.5	73.0	73.5
165°	75.0	74.5	74.0	73.5	74.0	75.0	75.5	75.5	75.0	74.0	74.5
167.5°	78.0	78.0	77.5	77.0	77.5	78.0	78.5	78.5	78.0	77.5	77.5
170°	81.0	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
172.5°	83.0	83.0	83.5	83.0	83.5	83.5	83.0	83.0	83.0	83.0	83.5
175°	86.1	86.1	86.1	86.1	86.6	86.6	86.6	86.6	86.6	86.6	86.6
177.5°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
180°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-4

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5.

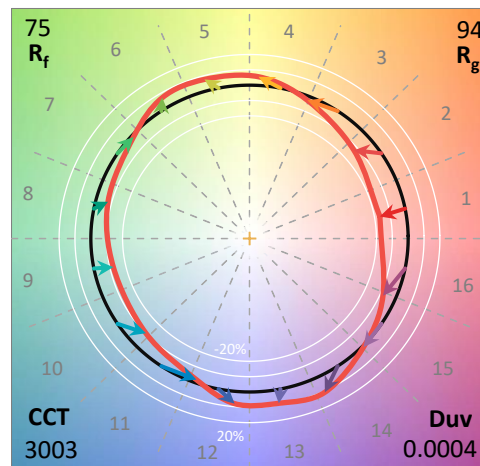
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-4
 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-100-730-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3003
 CIE u': 0.2503
 CIE v': 0.5219
 Duv: 0.0004
 CIE x: 0.4373
 CIE y: 0.4053
 CIE z: 0.1573
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 52.93545
 Rf: 75.2
 Rg: 93.8

CRI (Ra):	71.9		
R1:	68.2	R9:	-33.7
R2:	82.2	R10:	59.0
R3:	93.9	R11:	62.4
R4:	67.6	R12:	48.5
R5:	67.2	R13:	70.8
R6:	75.3	R14:	96.6
R7:	77.6	R15:	60.0
R8:	43.1		



Test Conditions

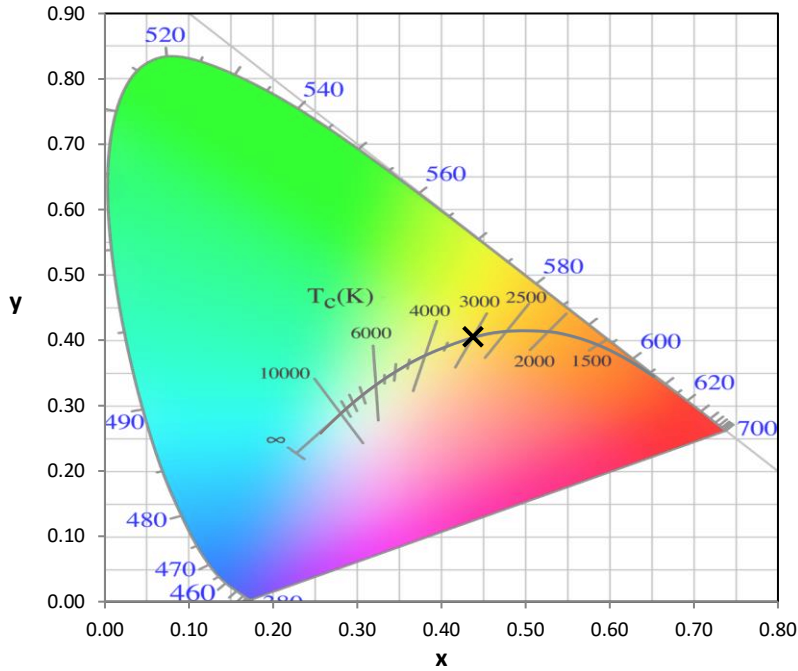
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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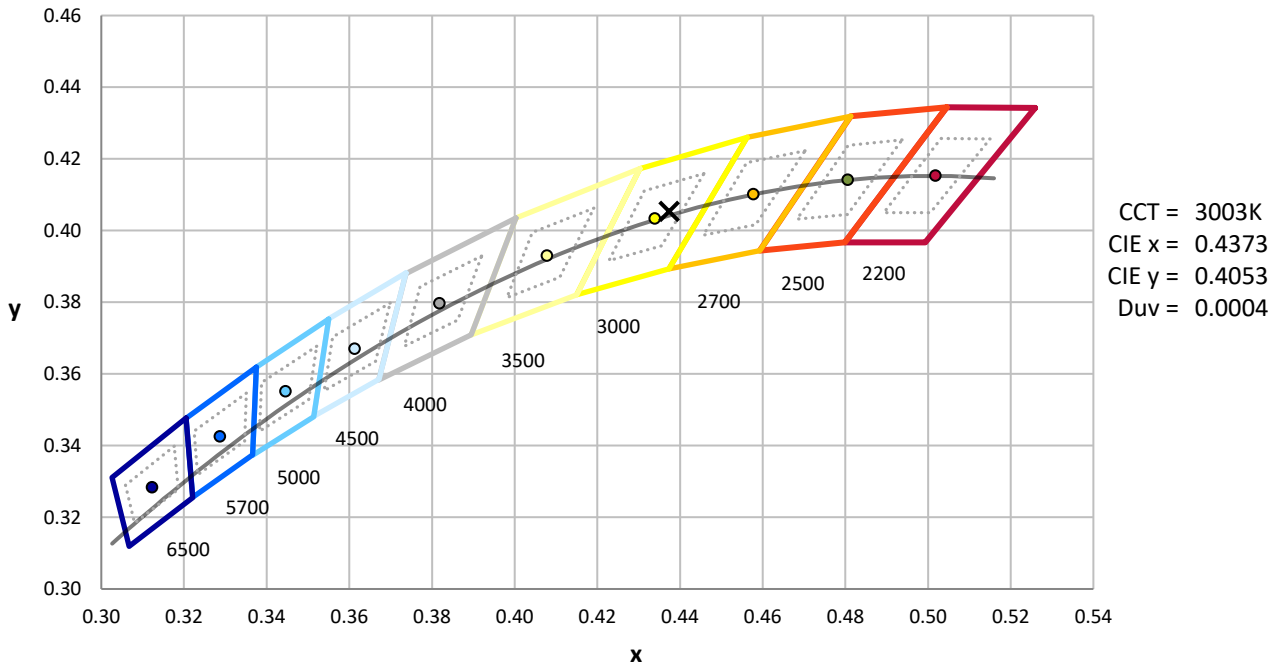
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



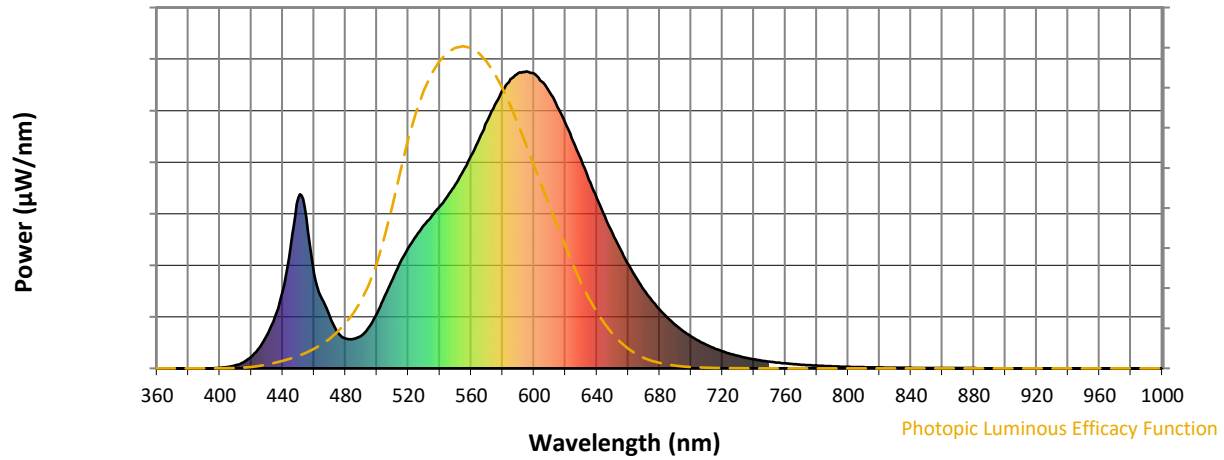
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

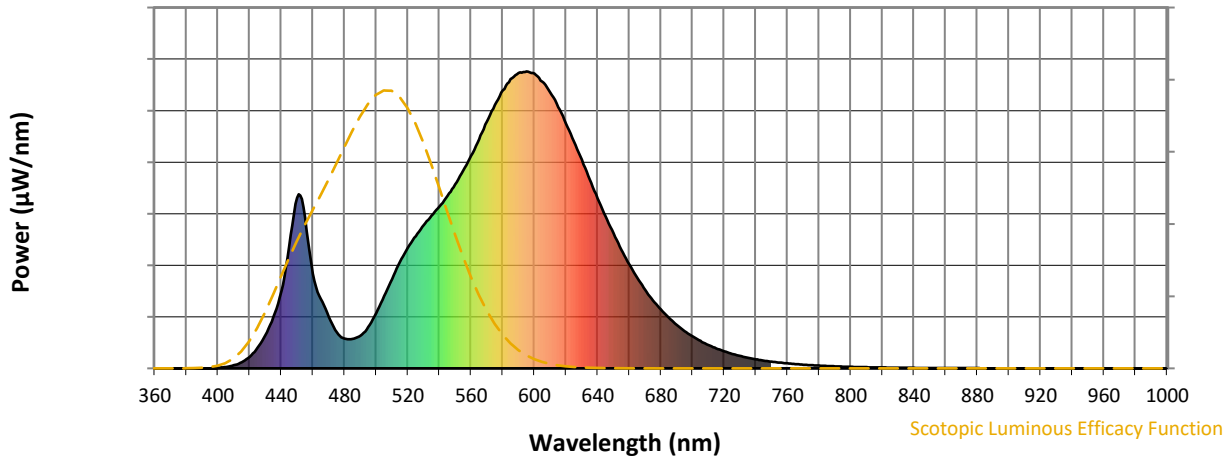


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



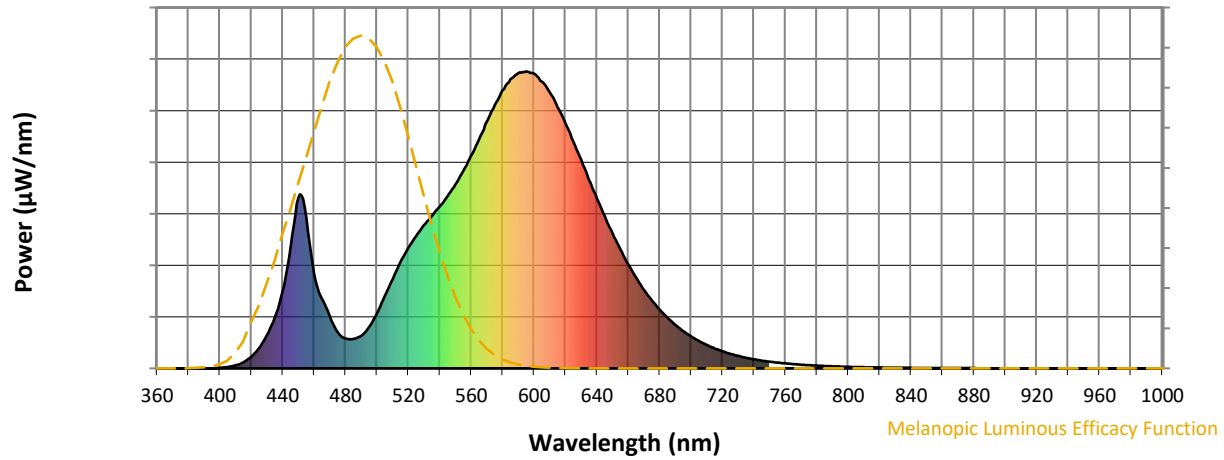
Scotopic Lumens: NR

S/P: 1.21

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

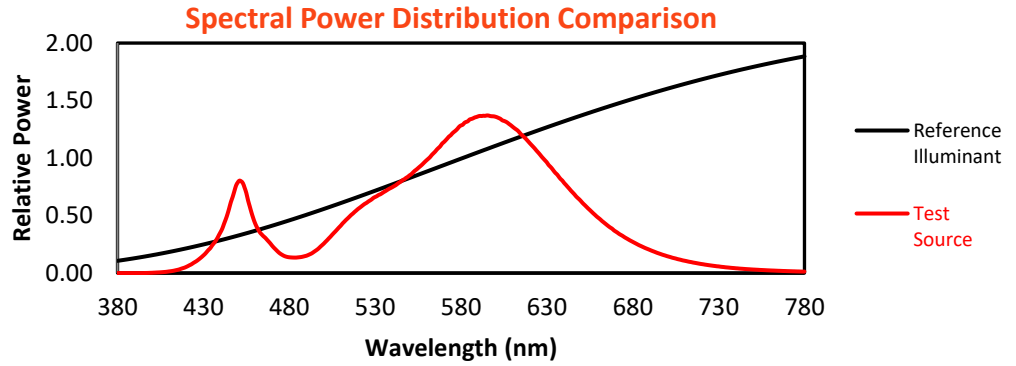
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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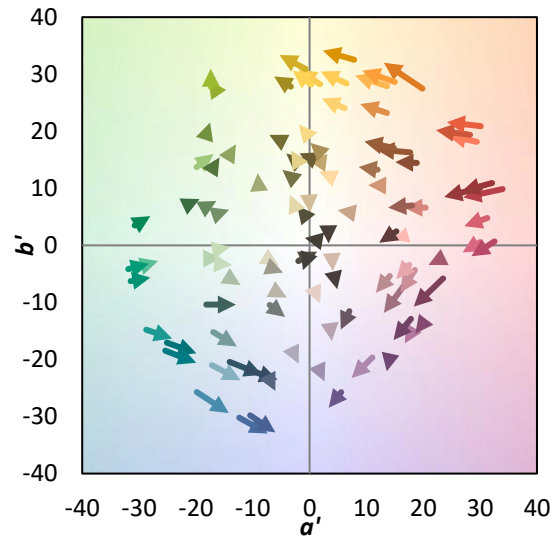
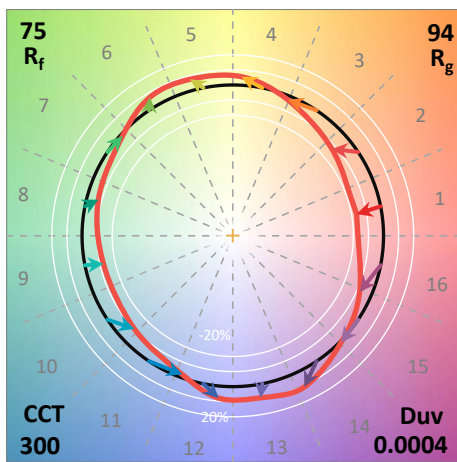
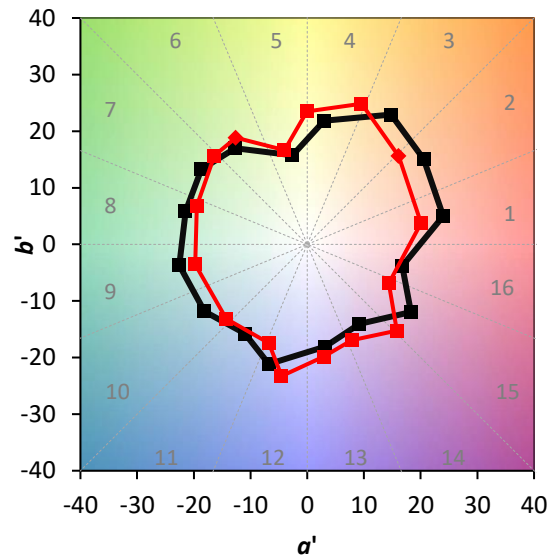
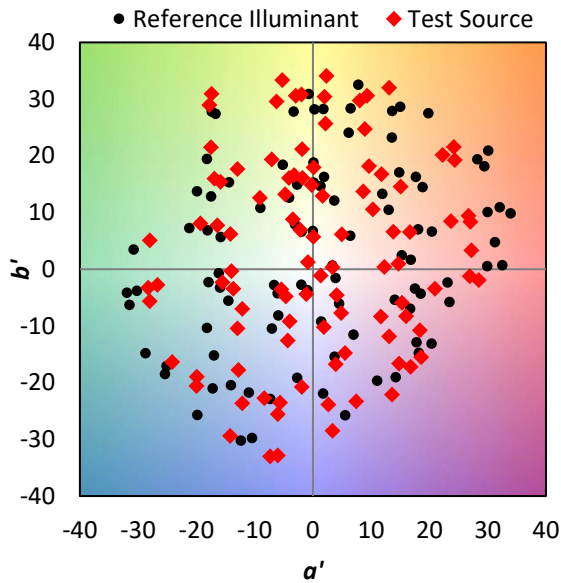
TM-30-18

Summary

$R_f = 75.2$
 $R_g = 93.8$
 CIE $R_a = 71.9$
 $R_9 = -33.7$



Color Vector Graphics

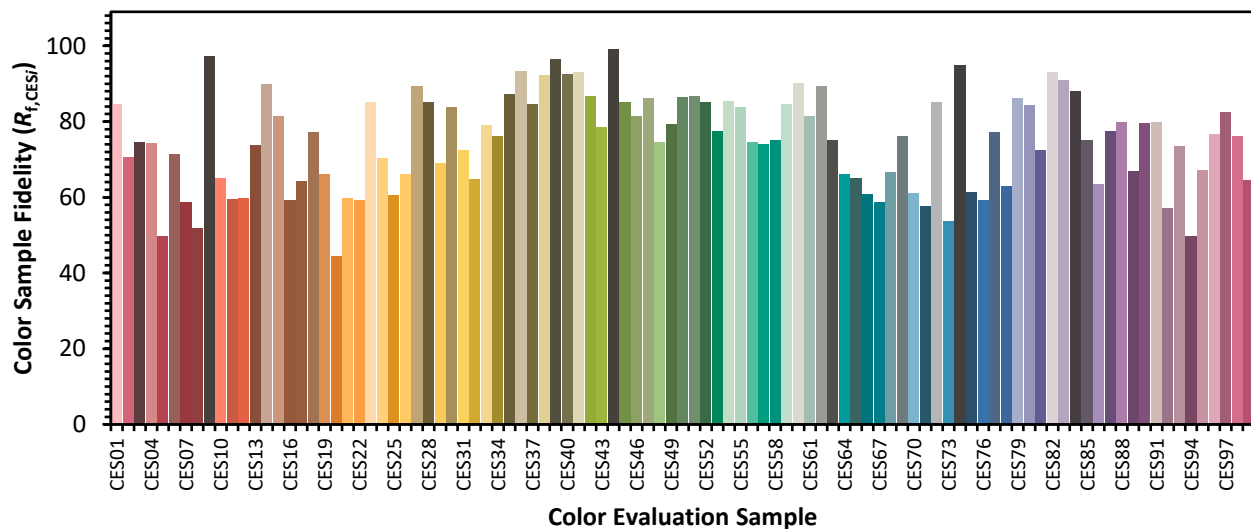


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Individual Sample Fidelity Index ($R_{f,i}$)

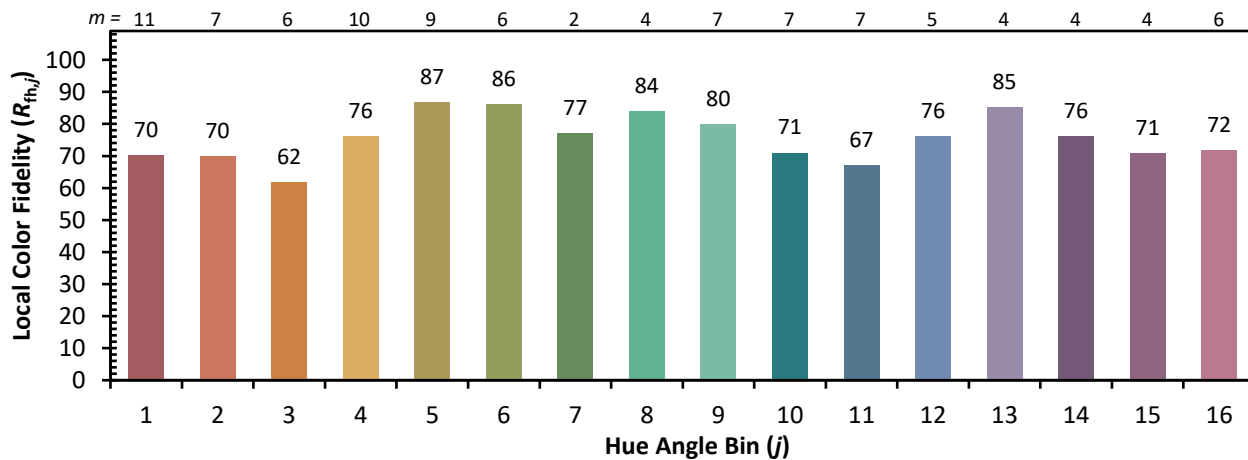
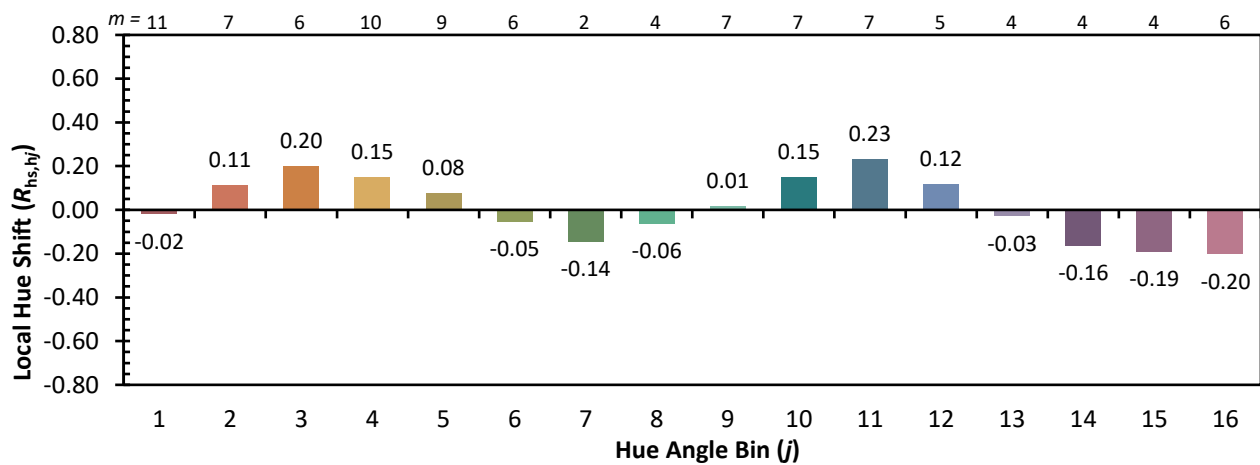
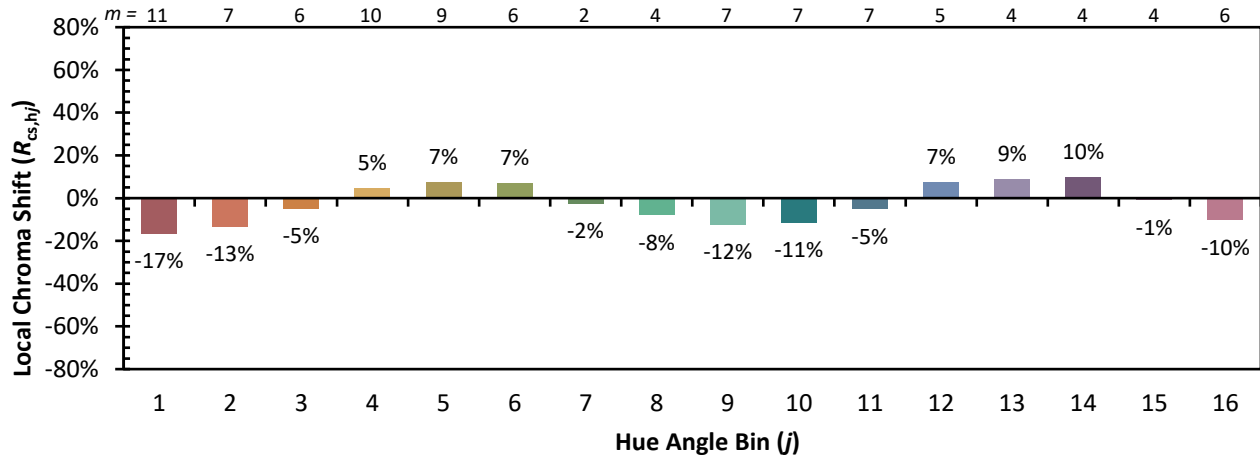
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
CES25 = 73	CES50 = 86	CES75 = 61	



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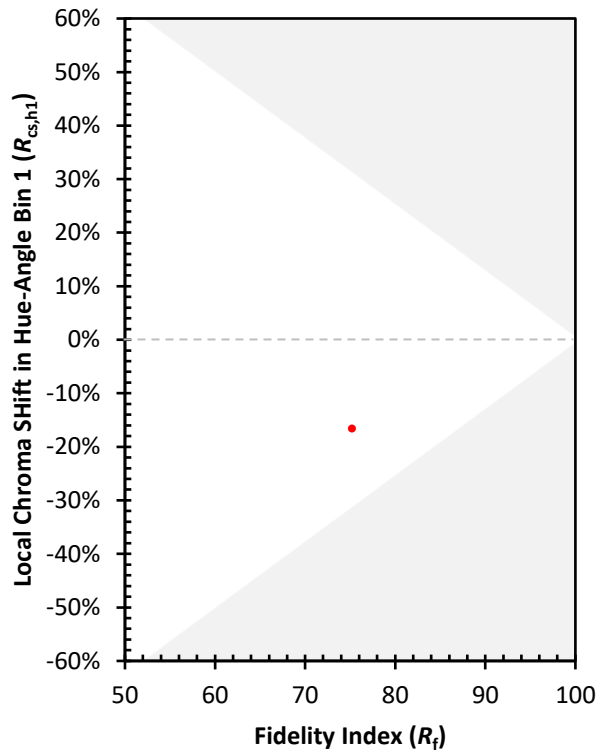
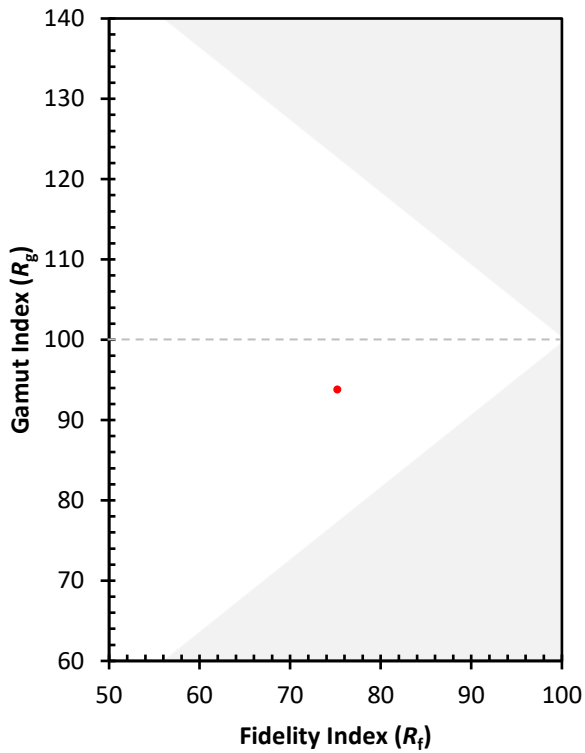
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)