

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: P981589

Luminaire Tested: **FFX-CLB-40-AMB-U-FR-T5-P-UPLR**

Issue Date: 04/15/2025

Test Information

Test Method: LM-79-08
Report Number: P981589
Test Lab: INNOVATION CENTER(G3)
Issue Date: 04/15/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-40-AMB-U-FR-T5-P-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION
POLYCARBONATE LENS AND UPLIGHT REFLECTOR
Light Source: (6) 1500K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 845.5 lumens
Efficiency: N/A
Efficacy: 20.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 16.5%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



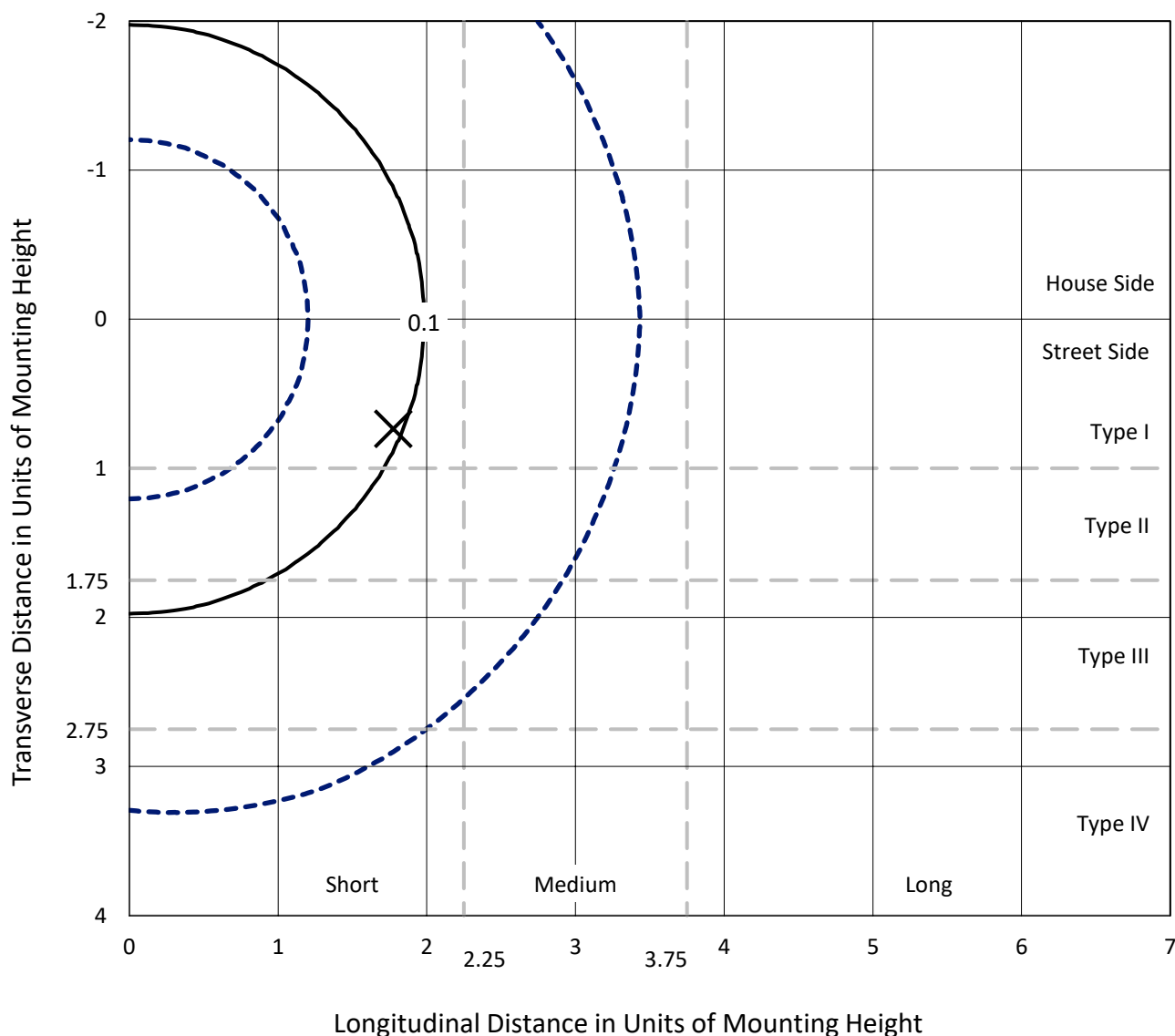
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CATALOG NUMBER: FFX-CLB-40-AMB-U-FR-T5-P-UPLR

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



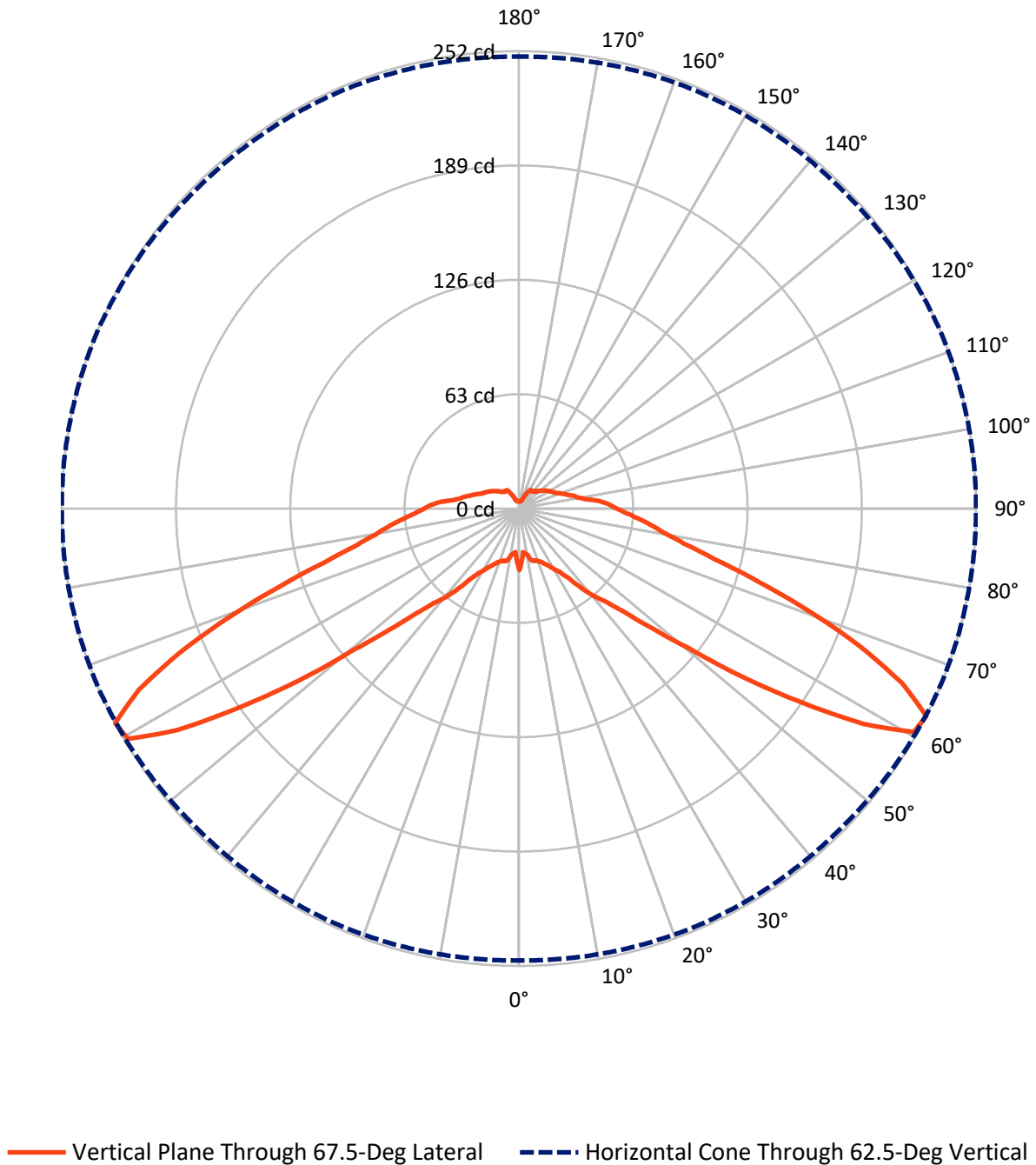
Based on 15 foot mounting height. Maximum calculated value = 0.2 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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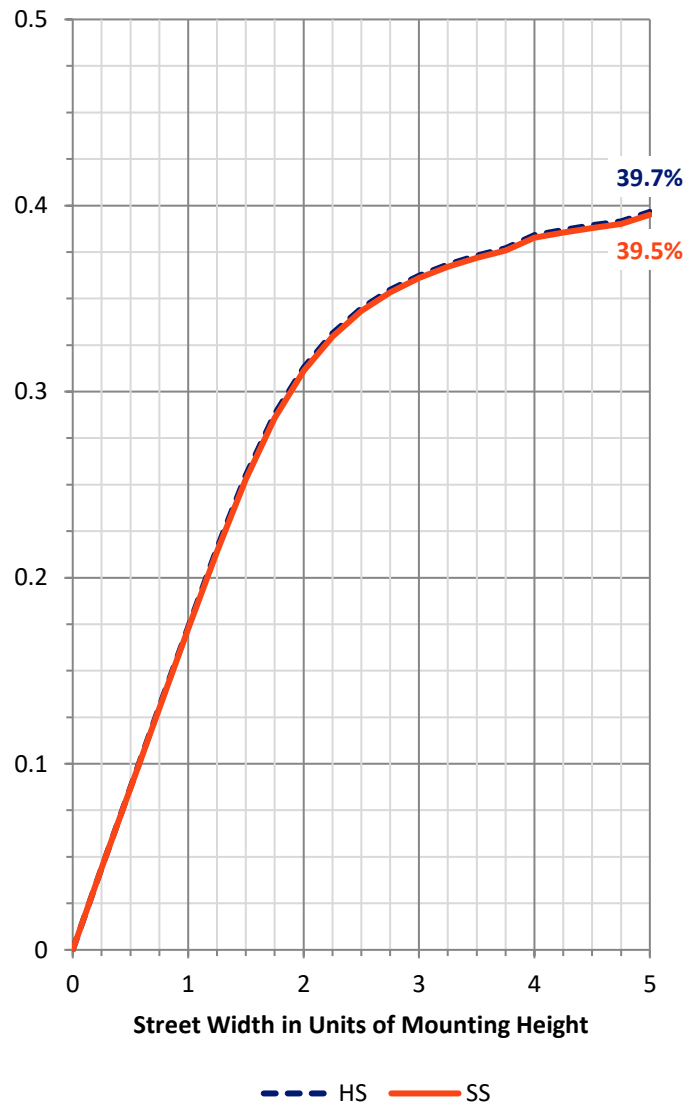
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	353.8	68.9	422.8
	% Fixture	41.8	8.2	50.0
Street Side	Lumens	353.8	68.9	422.8
	% Fixture	41.8	8.2	50.0
Total	Lumens	707.7	137.8	845.5
	% Fixture	83.7	16.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.3
10°-20°	8.4	1.0
20°-30°	16.0	1.9
30°-40°	30.8	3.6
40°-50°	66.5	7.9
50°-60°	169.0	20.0
60°-70°	221.0	26.1
70°-80°	122.5	14.5
80°-90°	71.0	8.4
90°-100°	47.3	5.6
100°-110°	30.3	3.6
110°-120°	21.3	2.5
120°-130°	15.6	1.8
130°-140°	10.5	1.2
140°-150°	7.5	0.9
150°-160°	3.7	0.4
160°-170°	1.3	0.2
170°-180°	0.4	0.0
0°-90°	707.7	83.7
0°-180°	845.5	100.0



REPORT NUMBER: P981589

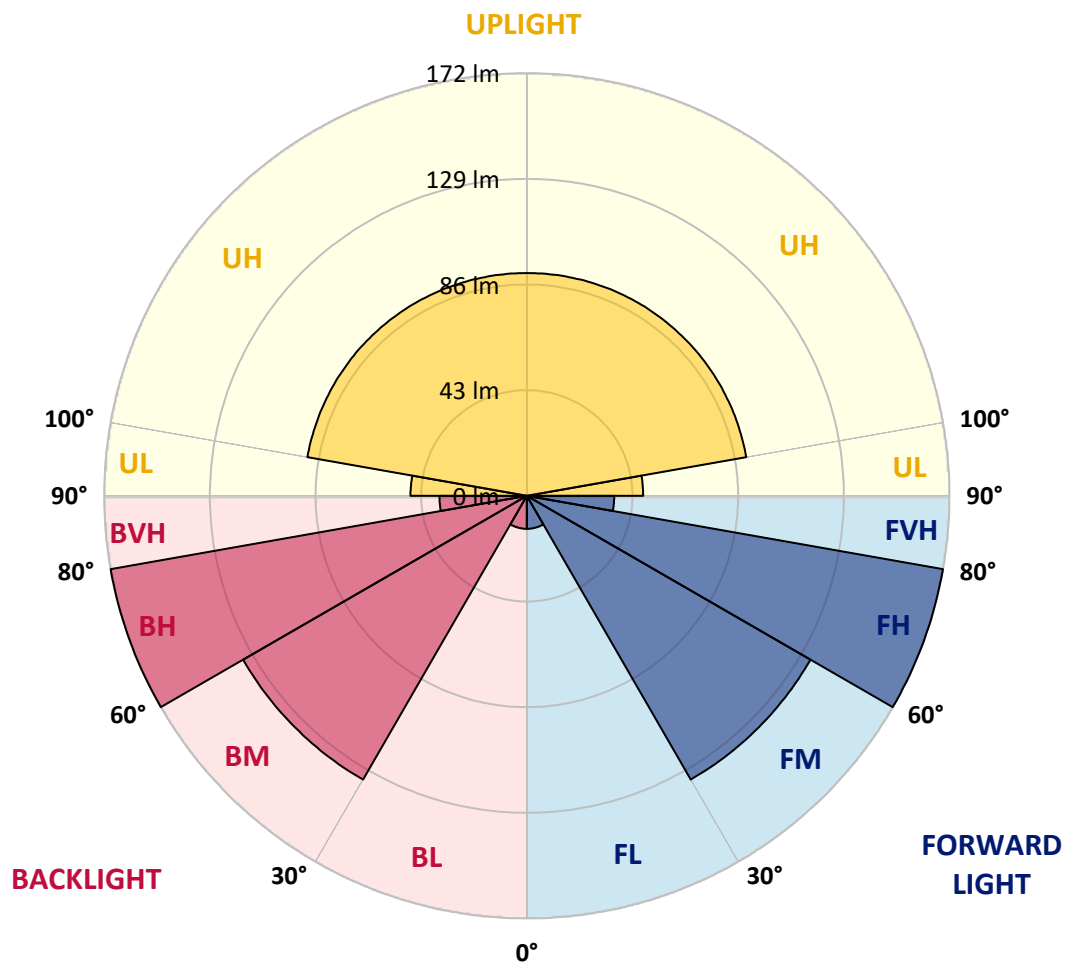
CATALOG NUMBER: FFX-CLB-40-AMB-U-FR-T5-P-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	13.4	1.6			
FM	(30°-60°)	133.2	15.7			
FH	(60°-80°)	171.8	20.3			G0/660
FVH	(80°-90°)	35.5	4.2			G1/100
BL	(0°-30°)	13.4	1.6	B0/110		
BM	(30°-60°)	133.2	15.7	B0/220		
BH	(60°-80°)	171.8	20.3	B1/500		G0/660
BVH	(80°-90°)	35.5	4.2			G1/100
UL	(90°-100°)	47.3	5.6		U2/50	
UH	(100°-180°)	90.5	10.7		U3/500	

BUG Rating: B1-U3-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	34.0	34.0	34.0	34.0	34.0
2.5°	27.0	31.0	30.0	29.0	32.0
5°	25.0	25.0	25.0	24.0	25.0
7.5°	25.0	24.0	24.0	25.0	23.0
10°	26.0	27.0	27.0	26.0	26.0
12.5°	30.0	29.0	29.0	29.0	28.0
15°	30.0	30.0	30.0	30.0	29.0
17.5°	30.0	30.0	30.0	30.0	30.0
20°	31.0	31.0	31.0	31.0	31.0
22.5°	32.0	32.0	32.0	32.0	32.0
25°	34.0	34.0	34.0	34.0	34.0
27.5°	36.0	36.0	36.0	36.0	36.0
30°	39.0	39.0	39.0	39.0	39.0
32.5°	42.0	42.0	42.0	42.0	42.0
35°	47.0	47.0	47.0	47.0	47.0
37.5°	55.0	55.0	54.0	55.0	54.0
40°	63.0	62.0	62.0	63.0	62.0
42.5°	70.0	71.0	70.0	70.0	71.0
45°	81.0	82.0	81.0	81.0	82.0
47.5°	98.0	97.0	97.0	98.0	97.0
50°	120.0	121.0	119.0	120.0	122.0
52.5°	151.9	151.9	150.9	153.9	152.9
55°	186.9	187.9	186.9	187.9	189.9
57.5°	220.9	223.9	222.9	223.9	227.9
60°	247.9	247.9	248.9	249.9	249.9
62.5°	248.9	249.9	249.9	251.9	251.9
65°	229.9	229.9	229.9	231.9	231.9
67.5°	197.9	201.9	201.9	202.9	205.9
70°	164.9	170.9	168.9	169.9	172.9
72.5°	132.0	139.0	138.0	138.0	140.0
75°	107.0	110.0	110.0	111.0	112.0
77.5°	90.0	91.0	92.0	93.0	93.0
80°	78.0	80.0	80.0	81.0	82.0
82.5°	69.0	72.0	72.0	73.0	73.0
85°	63.0	64.0	64.0	65.0	65.0
87.5°	56.0	58.0	58.0	58.0	58.0
90°	52.0	53.0	53.0	53.0	53.0
92.5°	48.0	49.0	49.0	49.0	49.0
95°	43.0	44.0	44.0	44.0	44.0
97.5°	37.0	38.0	37.0	37.0	37.0
100°	34.0	34.0	34.0	33.0	33.0
102.5°	32.0	31.0	31.0	31.0	30.0
105°	30.0	29.0	28.0	28.0	28.0
107.5°	27.0	26.0	26.0	26.0	26.0
110°	25.0	24.0	24.0	24.0	24.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.0	23.0	22.0	22.0	22.0
115°	22.0	21.0	21.0	21.0	21.0
117.5°	22.0	20.0	20.0	20.0	20.0
120°	21.0	20.0	19.0	19.0	19.0
122.5°	20.0	19.0	18.0	18.0	18.0
125°	18.0	18.0	17.0	17.0	17.0
127.5°	17.0	16.0	16.0	16.0	16.0
130°	15.0	15.0	15.0	15.0	15.0
132.5°	14.0	14.0	14.0	14.0	14.0
135°	14.0	14.0	13.0	13.0	13.0
137.5°	13.0	13.0	13.0	13.0	13.0
140°	13.0	12.0	12.0	12.0	12.0
142.5°	12.0	12.0	12.0	12.0	12.0
145°	12.0	12.0	12.0	12.0	12.0
147.5°	12.0	12.0	12.0	12.0	12.0
150°	11.0	11.0	11.0	11.0	11.0
152.5°	9.0	9.0	9.0	9.0	9.0
155°	8.0	8.0	8.0	8.0	7.0
157.5°	7.0	7.0	6.0	6.0	6.0
160°	6.0	6.0	6.0	5.0	6.0
162.5°	5.0	5.0	5.0	5.0	5.0
165°	4.0	4.0	4.0	4.0	4.0
167.5°	4.0	4.0	4.0	4.0	4.0
170°	4.0	4.0	4.0	4.0	4.0
172.5°	4.0	4.0	4.0	4.0	4.0
175°	4.0	4.0	4.0	4.0	4.0
177.5°	4.0	4.0	4.0	4.0	4.0
180°	4.0	4.0	4.0	4.0	4.0

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-6

Test Date: 03/28/2025

Luminaire Tested: FFX-CLB-AMB-U-FR-T5

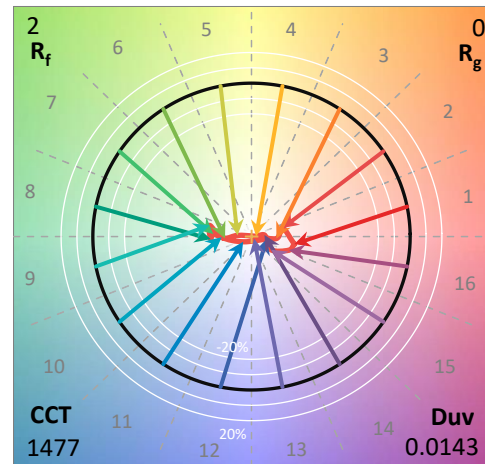
Data in this report applies to families of products including FFX-CLB-AMB-U-FR-T5

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-332-6
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 03/31/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-AMB-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR AMBER T5

Spectral Parameters

CCT (K):	1477	CRI (Ra):	-16.4		
CIE u':	0.3612	R1:	-26.9	R9:	-362.0
CIE v':	0.5457	R2:	55.7	R10:	34.1
Duv:	0.0143	R3:	19.5	R11:	-85.9
CIE x:	0.5980	R4:	-61.2	R12:	-0.3
CIE y:	0.4014	R5:	-34.3	R13:	-8.9
CIE z:	0.0006	R6:	47.8	R14:	48.3
Peak Wavelength (nm):	599	R7:	-4.8	R15:	-60.0
Dominant Wavelength (nm):	594	R8:	-127.3		
Purity:	99.99006				
Rf:	1.7				
Rg:	0.1				

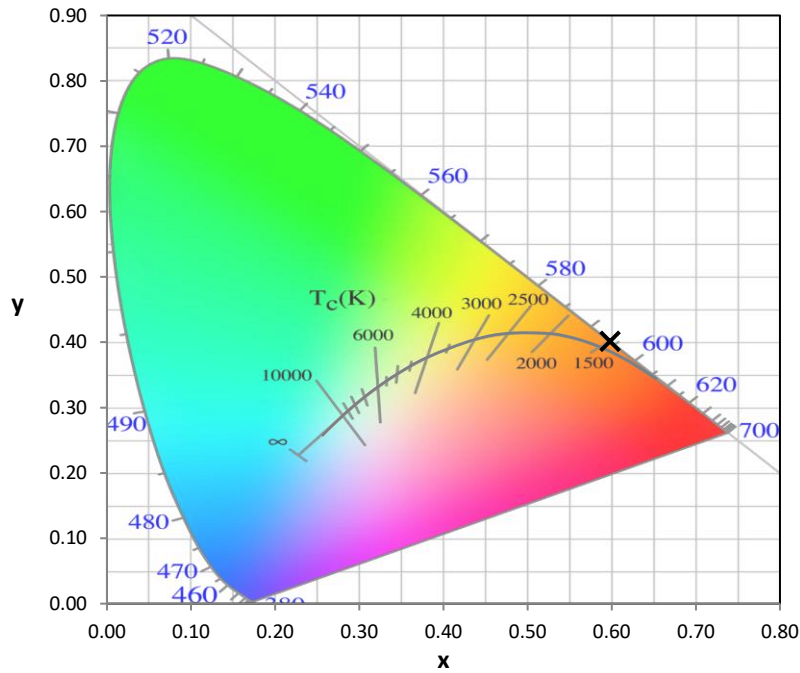


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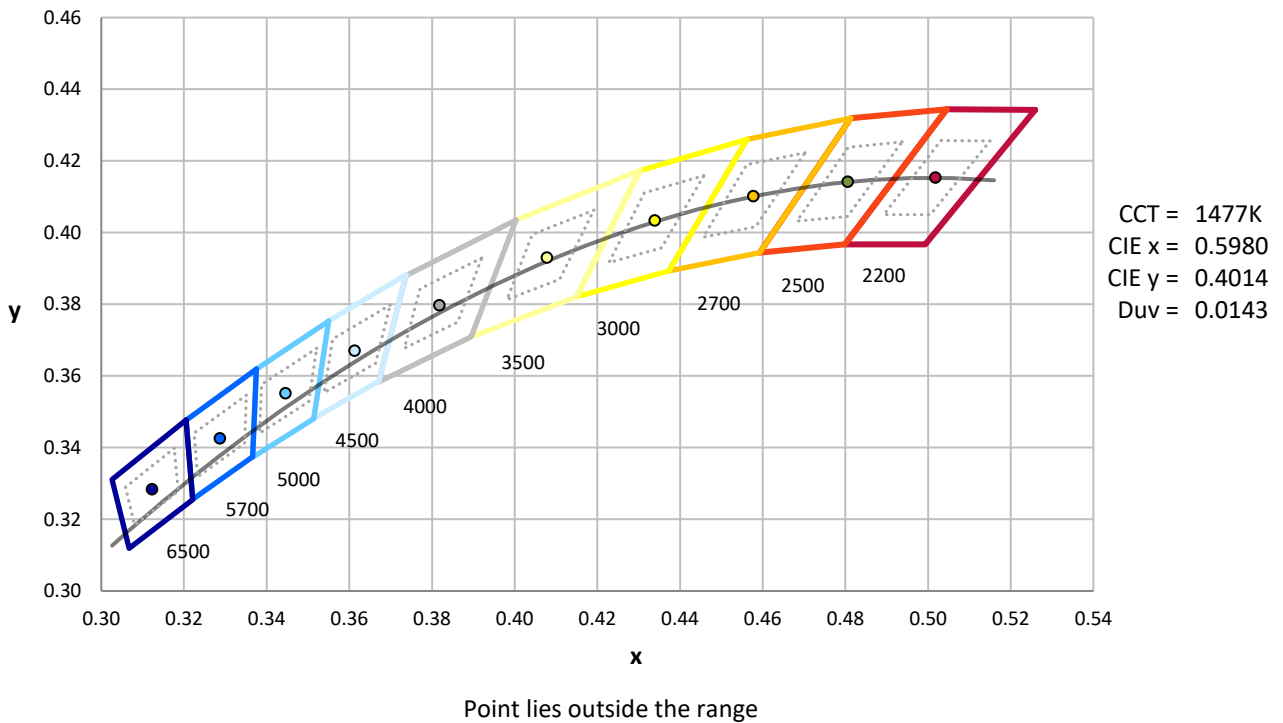
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram

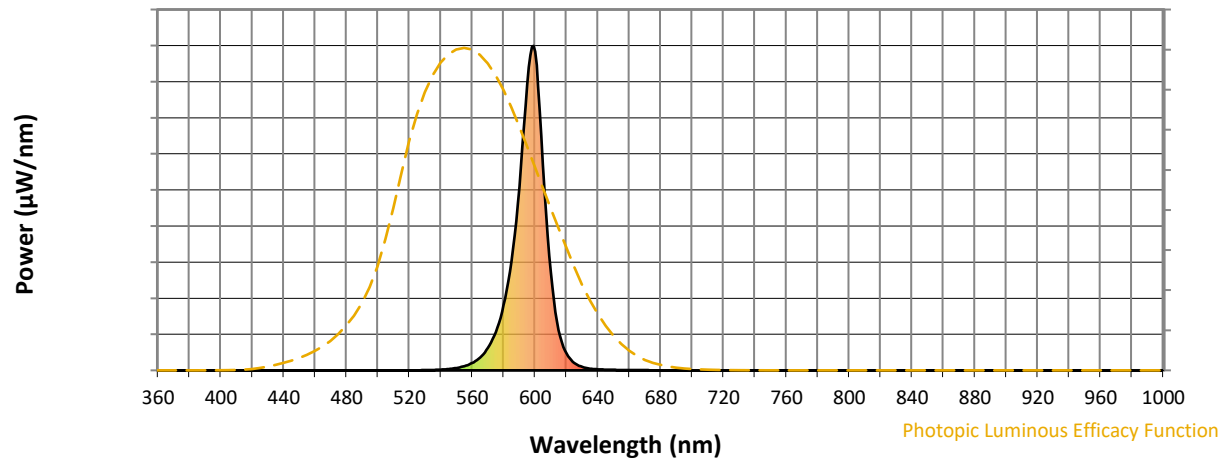


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

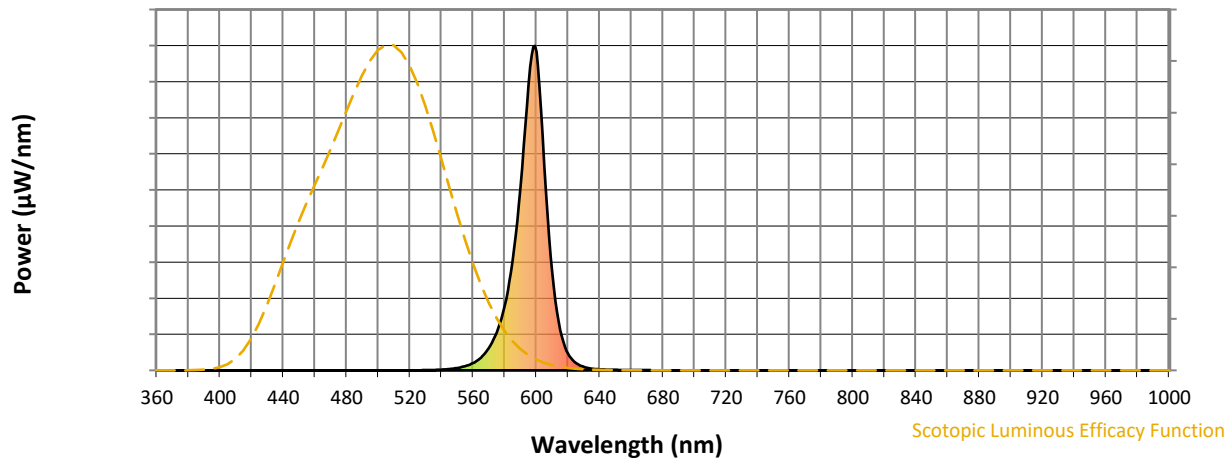


Photopic Lumens: NR

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	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

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Scotopic Flux vs. Wavelength

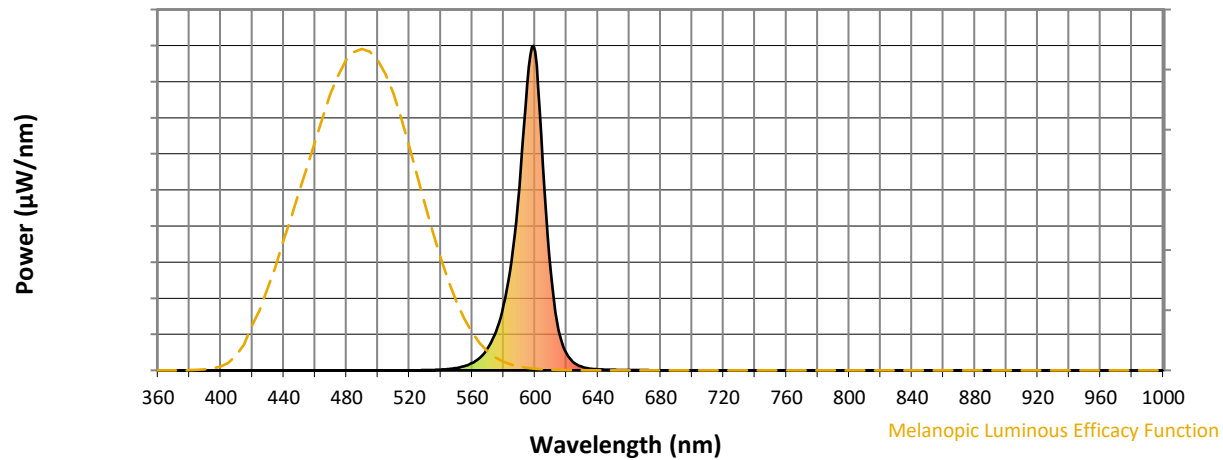


Scotopic Lumens: NR

S/P: 0.21

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	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

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Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 0.11

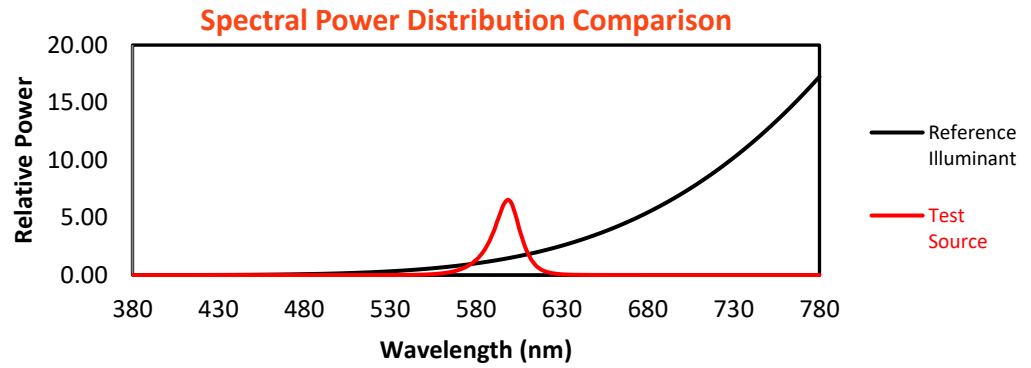
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

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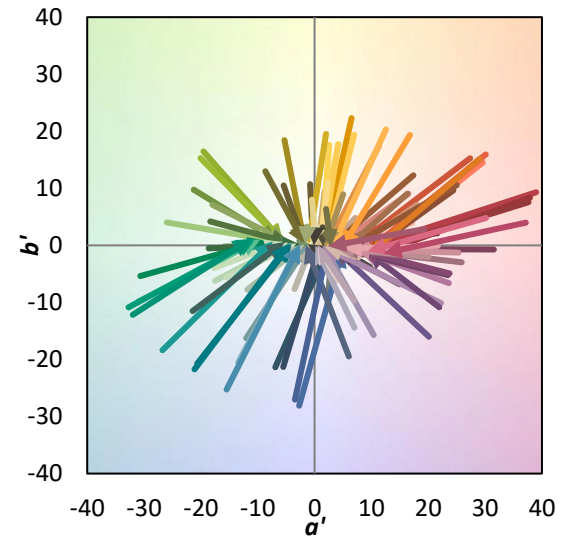
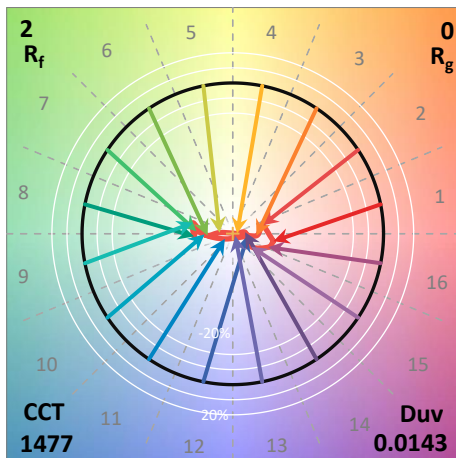
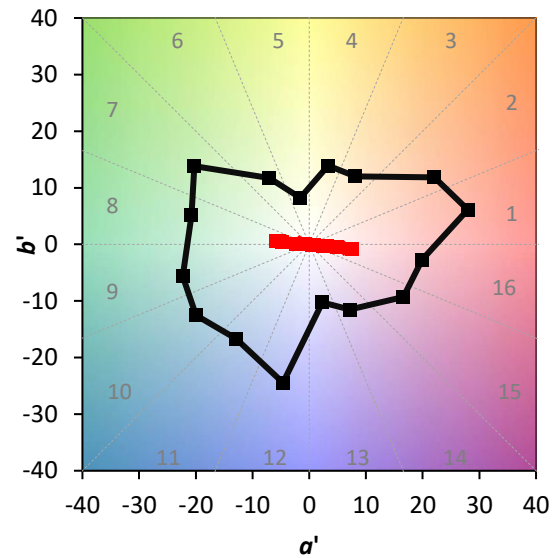
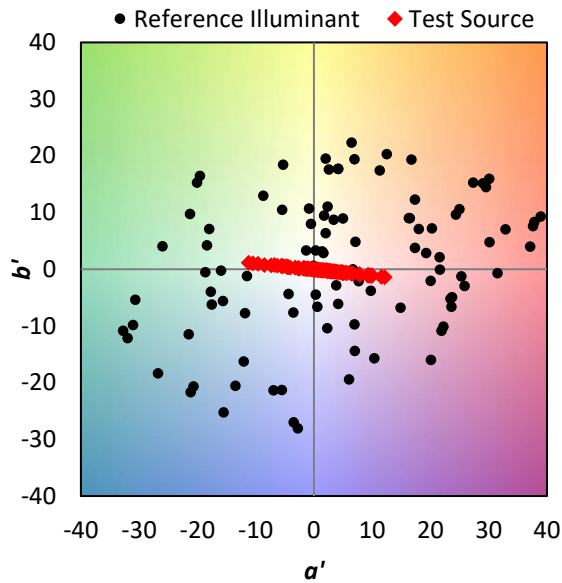
TM-30-18

Summary

$R_f = 1.7$
 $R_g = 0.1$
 $CIE R_a = -16.4$
 $R_g = -362.0$

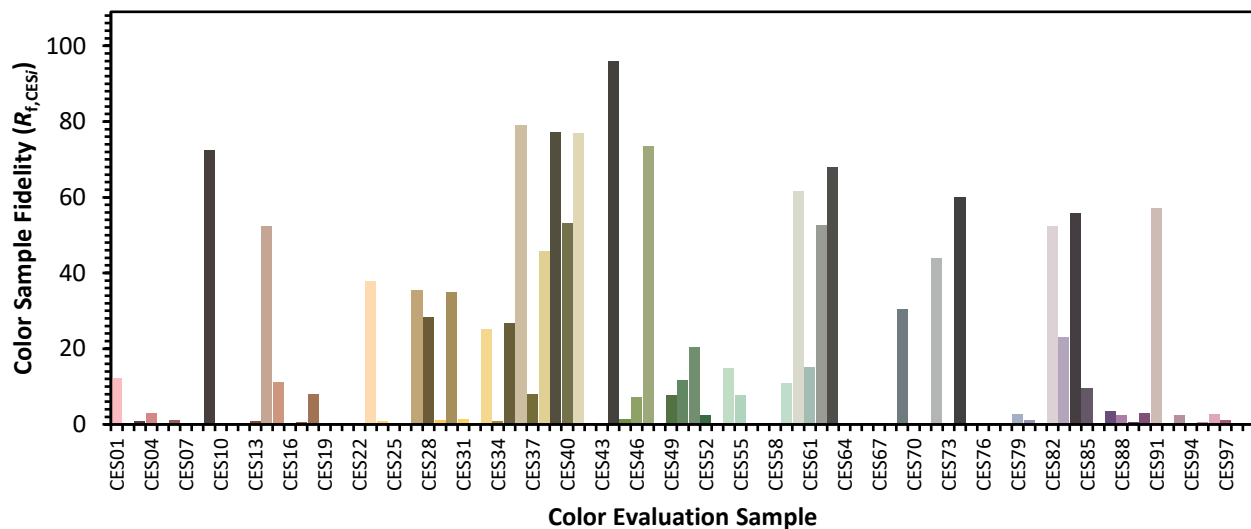


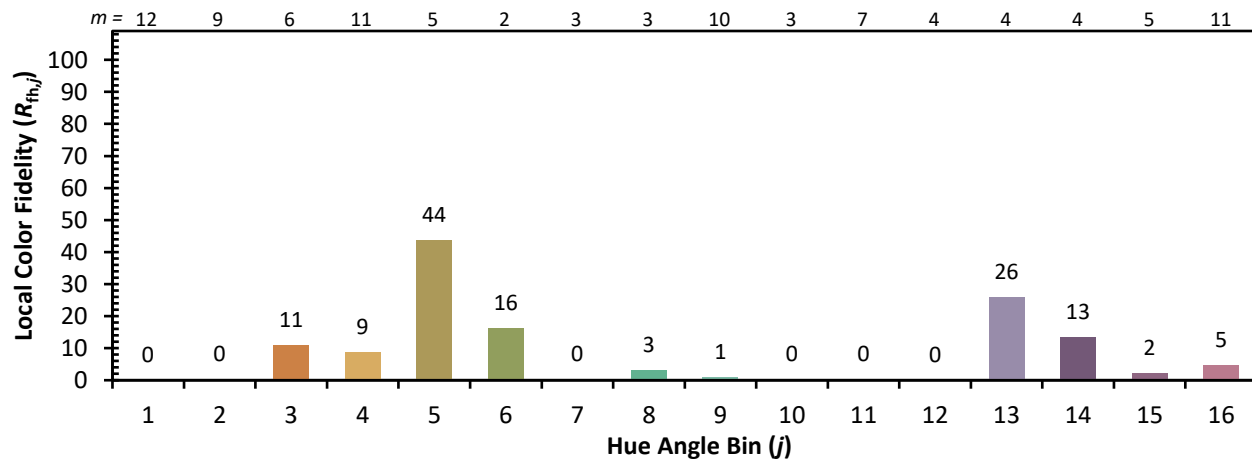
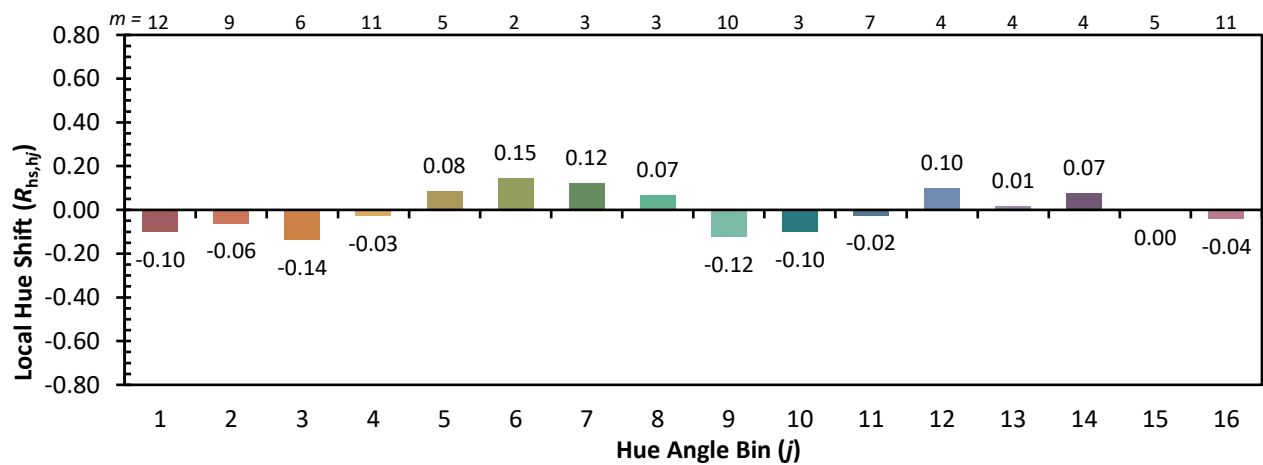
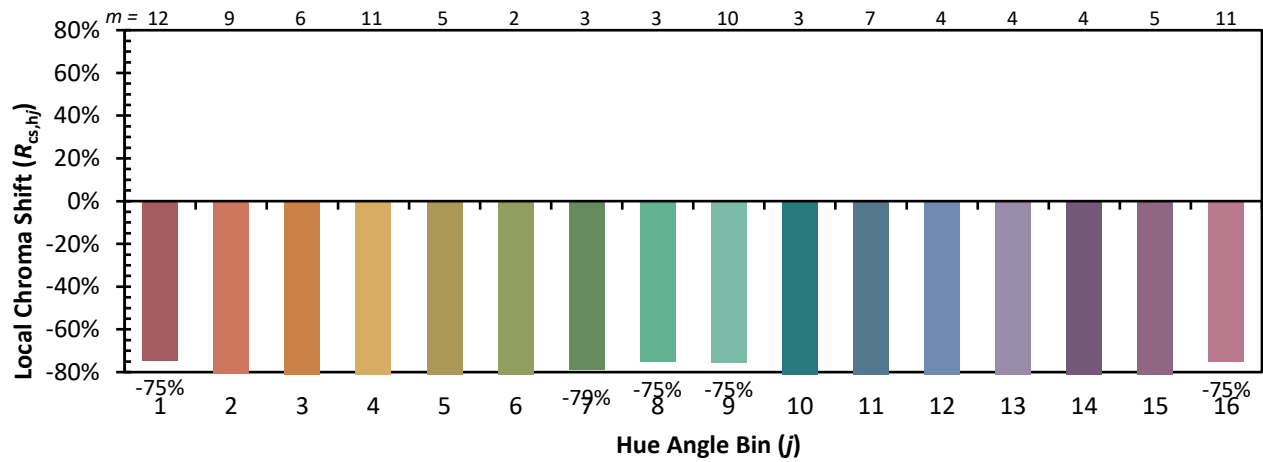
Color Vector Graphics



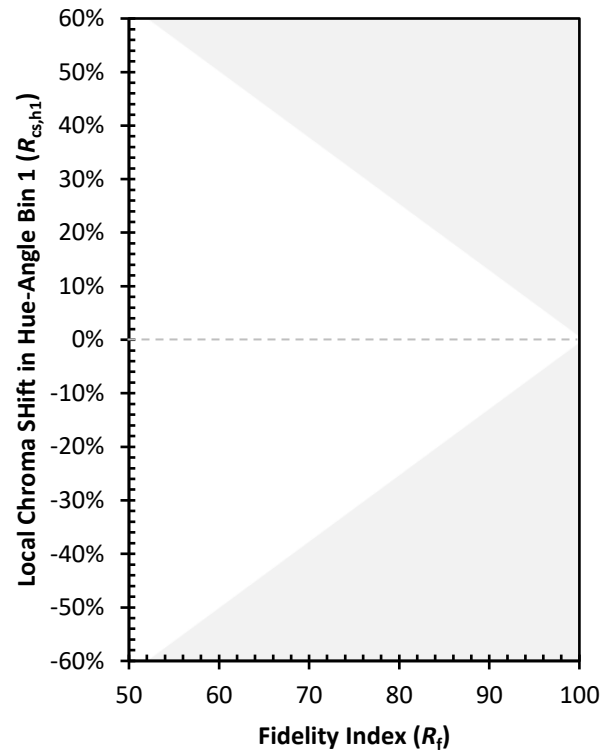
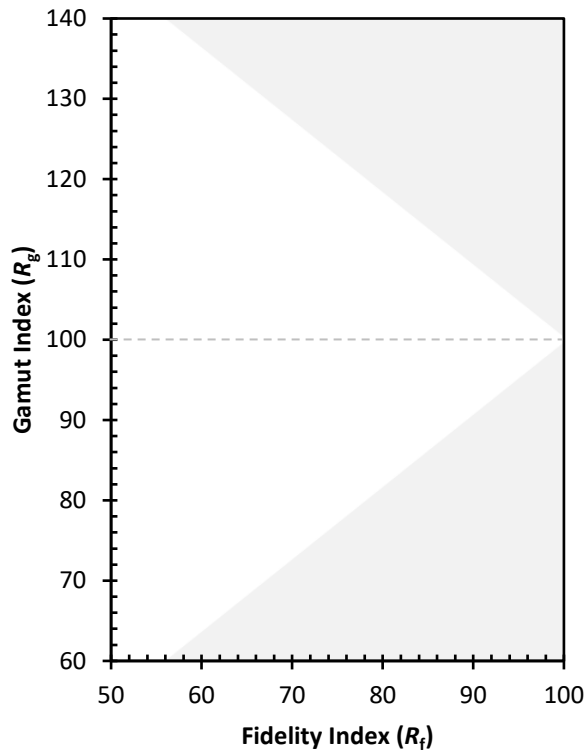
Individual Sample Fidelity Index (R_{fi})

CES01 = 90	CES26 = 0	CES51 = 20	CES76 = 0
CES02 = 70	CES27 = 35	CES52 = 3	CES77 = 0
CES03 = 31	CES28 = 28	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 15	CES79 = 3
CES05 = 52	CES30 = 35	CES55 = 8	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 42	CES32 = 0	CES57 = 0	CES82 = 52
CES08 = 39	CES33 = 25	CES58 = 0	CES83 = 23
CES09 = 30	CES34 = 1	CES59 = 11	CES84 = 56
CES10 = 88	CES35 = 27	CES60 = 62	CES85 = 10
CES11 = 70	CES36 = 79	CES61 = 15	CES86 = 0
CES12 = 76	CES37 = 8	CES62 = 53	CES87 = 4
CES13 = 48	CES38 = 46	CES63 = 68	CES88 = 2
CES14 = 77	CES39 = 77	CES64 = 0	CES89 = 0
CES15 = 75	CES40 = 53	CES65 = 0	CES90 = 3
CES16 = 50	CES41 = 77	CES66 = 0	CES91 = 57
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 60	CES43 = 0	CES68 = 0	CES93 = 3
CES19 = 80	CES44 = 96	CES69 = 30	CES94 = 0
CES20 = 72	CES45 = 2	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 7	CES71 = 0	CES96 = 3
CES22 = 87	CES47 = 73	CES72 = 44	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 8	CES74 = 60	CES99 = 0
CES25 = 79	CES50 = 12	CES75 = 0	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)