

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: P856262

Luminaire Tested: **FFX-CLB-20-730-U-PG**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856262  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-20-730-U-PG  
Description: FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

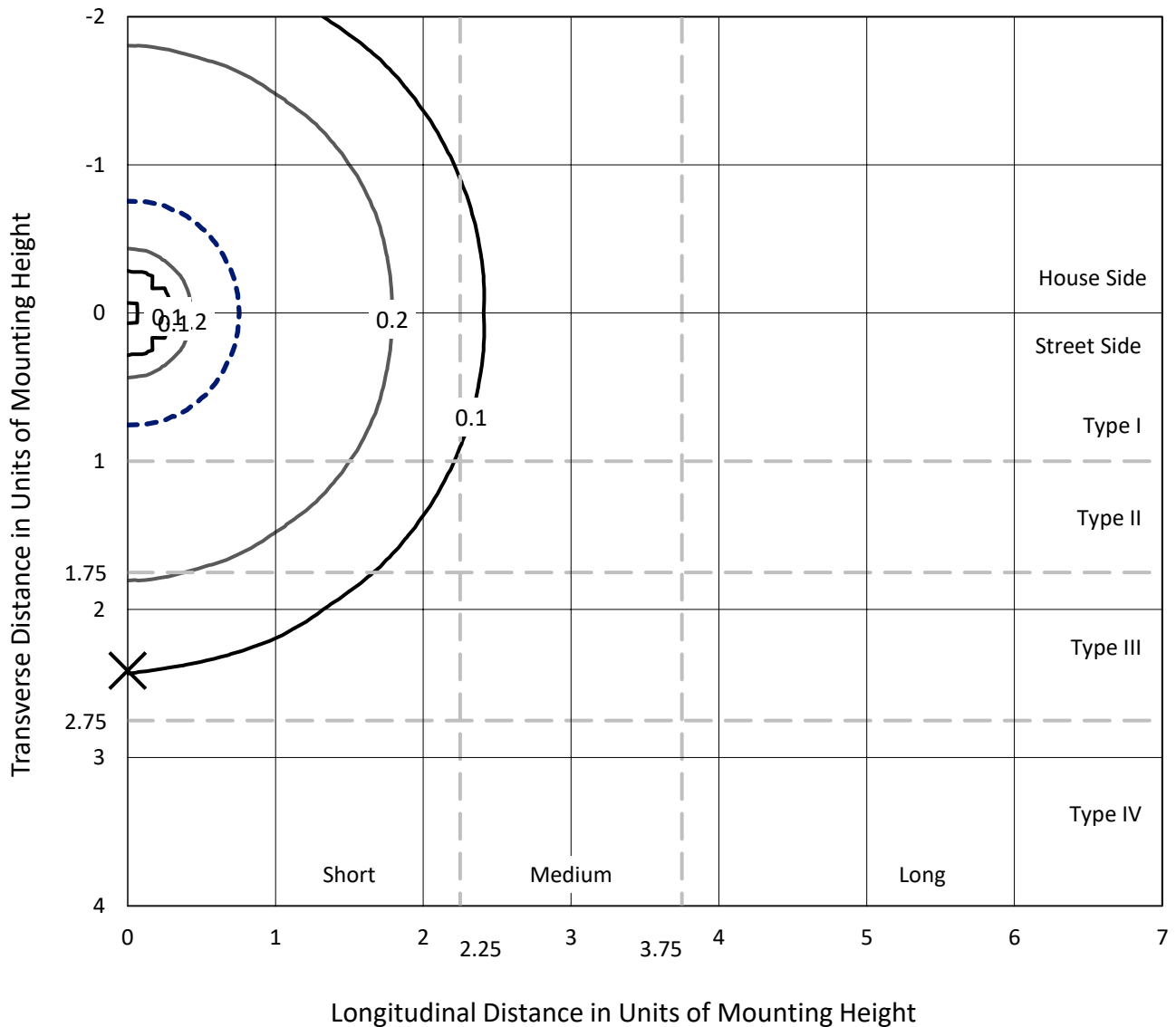
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3231.6 lumens  
Efficiency: N/A  
Efficacy: 165.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1.5')  
IES Classification: Type V - Short  
BUG Rating: B1 - U4 - G2  
  
Input Watts (W): 19.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 9.8%%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

REPORT NUMBER: P856262  
 CATALOG NUMBER: FFX-CLB-20-730-U-PG

### Iso-Footcandle Lines of Horizontal Illumination

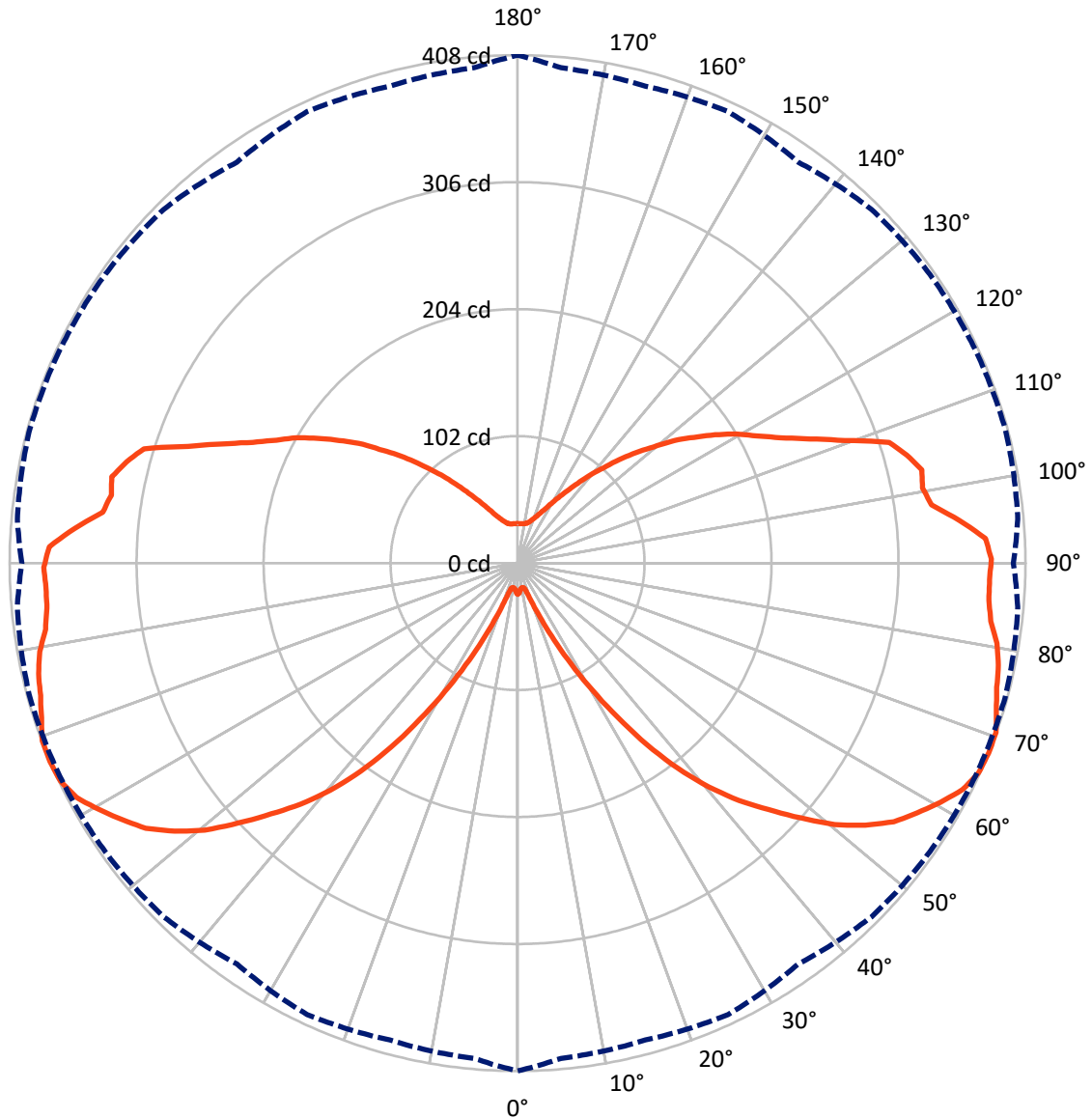
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P856262  
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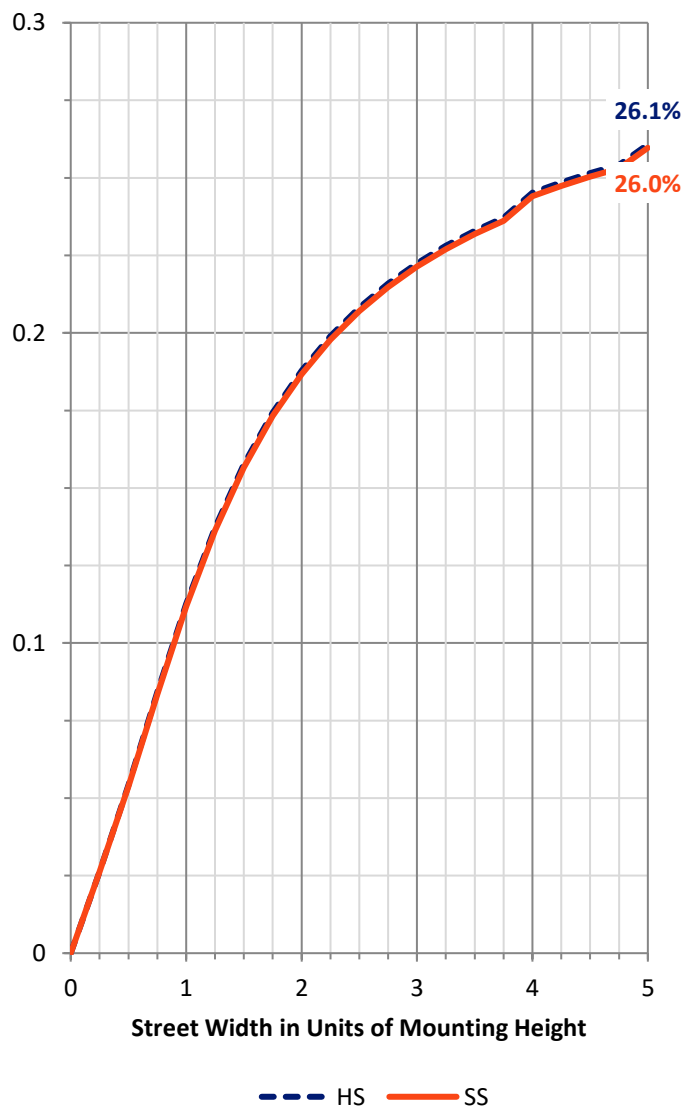
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	964.1	651.7	1615.8
	% Fixture	29.8	20.2	50.0
<b>Street Side</b>	Lumens	964.1	651.7	1615.8
	% Fixture	29.8	20.2	50.0
<b>Total</b>	Lumens	1928.2	1303.5	3231.6
	% Fixture	59.7	40.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.1	0.1
10°-20°	6.9	0.2
20°-30°	34.5	1.1
30°-40°	113.4	3.5
40°-50°	219.3	6.8
50°-60°	324.6	10.0
60°-70°	394.6	12.2
70°-80°	416.6	12.9
80°-90°	416.2	12.9
90°-100°	389.4	12.0
100°-110°	346.4	10.7
110°-120°	236.9	7.3
120°-130°	159.1	4.9
130°-140°	92.4	2.9
140°-150°	45.5	1.4
150°-160°	21.0	0.7
160°-170°	9.7	0.3
170°-180°	3.0	0.1
0°-90°	1928.2	59.7
0°-180°	3231.6	100.0



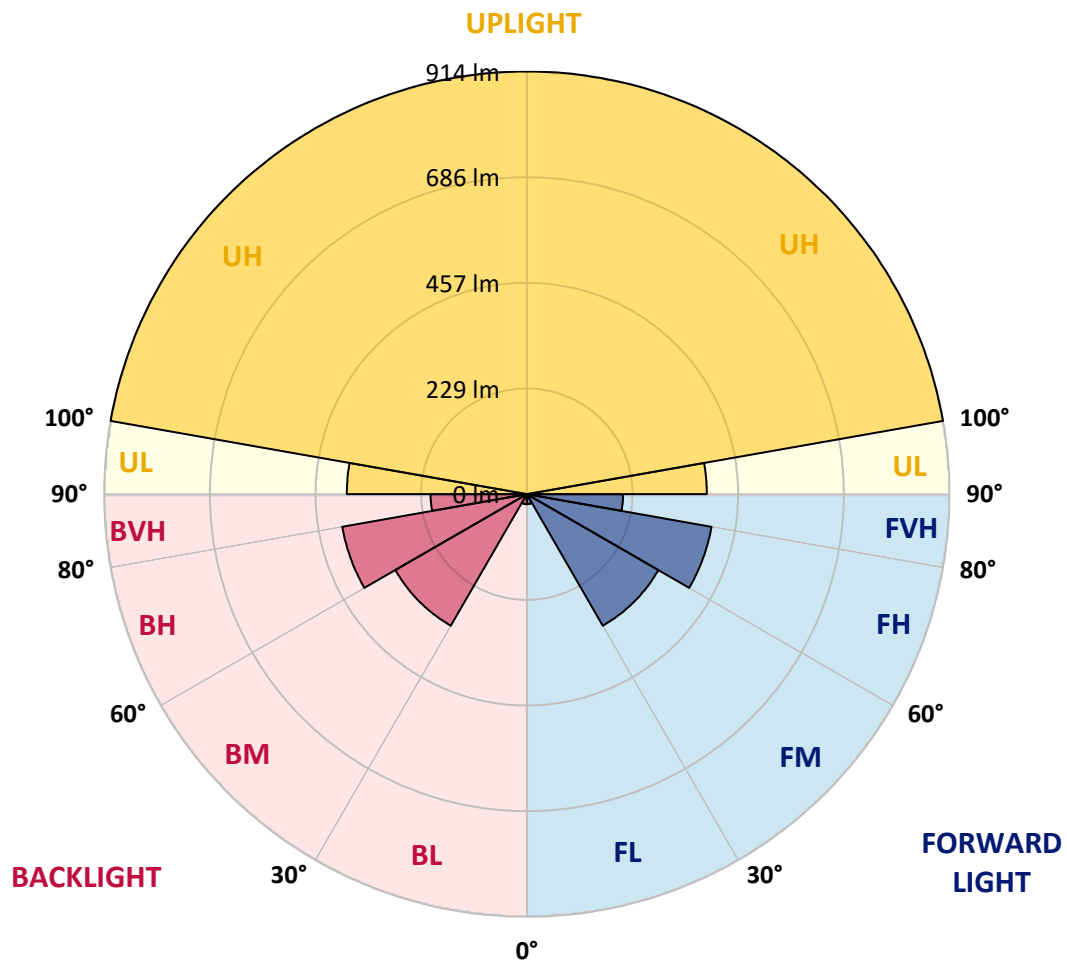
REPORT NUMBER: P856262  
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	21.8	0.7			
FM (30°-60°)	328.6	10.2			
FH (60°-80°)	405.6	12.5			G0/660
FVH (80°-90°)	208.1	6.4			G2/225
BL (0°-30°)	21.8	0.7	B0/110		
BM (30°-60°)	328.6	10.2	B1/1000		
BH (60°-80°)	405.6	12.5	B1/500		G0/660
BVH (80°-90°)	208.1	6.4			G2/225
UL (90°-100°)	389.4	12.0		U3/500	
UH (100°-180°)	914.1	28.3		U4/1000	

**BUG Rating: B1-U4-G2**

Type V Short





REPORT NUMBER: P856262  
 CATALOG NUMBER: FFX-CLB-20-730-U-PG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
2.5°	24.1	23.9	23.6	23.4	23.6	23.9	24.3	24.5	24.5	24.5	24.5
5°	21.8	22.0	22.2	22.4	22.4	22.4	22.4	22.6	22.8	22.8	22.8
7.5°	20.6	20.6	20.8	21.4	21.6	21.4	21.4	21.6	21.0	20.4	20.2
10°	20.0	20.0	20.2	20.4	20.6	21.0	21.2	21.2	21.2	21.2	21.0
12.5°	20.2	20.0	20.2	20.4	20.8	21.0	20.6	20.6	21.0	21.4	21.6
15°	21.2	21.0	21.0	21.4	21.6	21.6	21.2	21.2	21.4	21.8	21.8
17.5°	25.7	25.3	25.1	25.3	25.1	25.3	25.1	25.5	25.5	25.3	25.1
20°	35.1	34.7	34.0	33.8	34.0	34.7	34.9	35.5	34.9	34.7	33.8
22.5°	49.7	49.1	48.7	48.7	49.3	49.7	49.5	50.4	49.9	49.7	48.9
25°	68.5	68.1	68.3	69.3	70.3	69.7	68.1	69.3	69.3	69.1	68.9
27.5°	91.9	90.5	91.1	93.8	94.6	93.0	91.1	92.5	93.2	93.4	93.4
30°	118.6	117.6	117.4	120.3	121.3	119.9	118.6	120.3	120.3	120.9	120.9
32.5°	147.6	147.0	146.0	147.6	149.2	148.8	148.8	150.0	149.6	150.2	150.4
35°	179.4	178.2	176.1	176.3	178.2	178.4	179.8	180.6	180.2	180.0	180.0
37.5°	209.4	207.7	205.9	204.9	207.1	206.9	210.2	210.2	209.4	209.6	209.6
40°	236.5	235.4	234.0	231.2	235.4	234.6	238.5	238.5	236.3	236.9	236.5
42.5°	260.7	260.7	259.1	254.8	259.3	258.5	263.6	263.6	260.5	260.3	259.7
45°	282.5	283.6	282.7	278.9	280.5	281.1	286.0	285.0	282.5	282.5	281.5
47.5°	306.0	307.0	304.1	300.1	301.9	302.9	307.4	307.0	305.6	303.7	303.7
50°	330.4	330.6	324.9	320.0	321.7	327.0	330.2	331.1	328.0	323.7	323.5
52.5°	349.8	351.0	345.5	340.2	341.5	347.6	351.2	351.4	347.6	341.5	343.3
55°	366.9	368.2	362.7	358.0	360.4	363.7	368.0	365.5	365.7	359.2	362.2
57.5°	378.6	382.6	373.5	372.4	374.7	378.6	380.4	379.8	381.0	374.9	375.9
60°	390.2	392.0	384.3	385.7	383.0	390.0	391.4	392.8	389.6	385.3	385.3
62.5°	401.2	396.7	391.2	394.7	387.5	396.3	397.9	399.5	396.1	392.0	392.8
65°	406.9	398.7	394.0	398.3	391.4	399.3	402.0	402.6	402.0	398.1	396.3
67.5°	408.1	399.5	396.7	400.2	393.2	402.0	404.4	405.7	406.3	403.4	398.3
70°	407.7	398.5	396.1	399.3	394.9	403.0	403.2	405.1	405.9	407.1	401.4
72.5°	402.2	394.2	393.6	396.5	392.4	397.7	397.9	400.2	398.9	402.8	400.0
75°	397.7	392.4	393.4	392.8	388.7	391.8	392.6	395.3	390.8	394.5	396.9
77.5°	394.9	392.0	394.5	391.2	386.9	388.9	390.2	393.2	386.5	389.6	396.7
80°	390.4	389.6	392.6	387.7	384.1	385.9	387.9	390.6	383.2	385.3	395.5
82.5°	383.0	383.6	386.5	380.8	378.3	380.4	382.8	386.9	379.4	380.6	391.4
85°	379.8	382.4	383.9	378.1	375.3	376.5	379.2	383.4	375.5	377.3	388.3
87.5°	379.4	382.6	383.6	378.8	376.3	378.1	379.4	385.5	376.9	379.2	390.4
90°	380.6	381.8	382.4	378.1	376.1	379.0	379.2	386.7	378.1	378.8	388.7
92.5°	376.5	376.7	377.9	374.1	373.9	375.9	375.5	381.8	372.4	371.0	379.6
95°	356.7	355.1	357.8	355.7	360.0	363.1	366.5	374.5	369.8	371.0	378.3
97.5°	335.7	336.2	337.0	333.7	333.1	334.3	335.7	339.8	338.4	339.6	346.5
100°	330.9	332.3	332.1	330.4	323.7	322.3	319.2	315.0	309.2	310.1	311.1
102.5°	333.3	337.2	337.8	340.0	340.0	339.0	341.2	339.4	340.4	346.3	343.1
105°	324.5	329.0	331.9	334.3	339.0	342.9	353.3	359.6	364.7	371.8	370.8
107.5°	313.9	316.2	318.2	318.2	317.0	316.4	322.1	323.1	321.7	323.5	323.7
110°	280.9	280.7	282.7	281.9	282.5	279.3	280.9	286.4	285.2	288.9	289.5



REPORT NUMBER: P856262  
 CATALOG NUMBER: FFX-CLB-20-730-U-PG

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	255.2	255.2	256.6	254.6	254.8	252.2	253.2	256.9	257.1	260.1	261.7
115°	233.6	233.2	235.2	233.6	231.8	231.2	232.2	234.4	235.0	237.1	240.3
117.5°	217.5	215.5	217.1	217.3	218.1	216.5	218.9	220.4	221.2	222.8	225.5
120°	204.3	202.2	202.8	204.9	207.3	203.9	206.5	207.7	208.3	208.9	210.2
122.5°	189.2	187.7	187.1	191.2	192.6	189.6	191.0	192.8	193.9	194.9	195.9
125°	173.9	172.7	172.1	175.7	177.1	174.7	176.7	179.4	179.0	181.2	179.2
127.5°	160.0	159.6	158.8	160.6	161.7	161.5	163.3	166.5	165.1	167.2	164.9
130°	143.5	145.1	143.9	146.2	146.4	148.0	148.6	151.7	150.2	150.6	149.2
132.5°	130.1	130.7	130.1	130.9	131.5	131.5	133.1	136.4	134.1	133.9	132.7
135°	116.4	116.6	115.8	117.0	117.4	116.4	118.0	120.5	119.3	118.6	118.6
137.5°	102.9	102.7	102.9	103.4	103.8	103.6	104.4	106.2	105.8	105.0	106.0
140°	91.5	90.9	91.1	91.3	91.1	91.1	91.9	93.6	93.6	92.5	93.6
142.5°	80.1	79.9	79.9	79.9	79.9	80.3	81.1	81.5	81.9	81.1	80.9
145°	70.5	70.3	70.1	70.1	70.1	70.3	71.1	70.9	71.8	70.9	70.3
147.5°	62.0	62.2	61.8	61.6	61.4	62.0	62.2	62.6	63.0	62.6	62.0
150°	55.0	54.8	54.8	54.4	54.4	55.0	54.8	55.2	55.7	55.4	55.2
152.5°	48.9	48.9	48.9	48.5	48.7	49.1	49.1	49.1	49.5	49.5	49.3
155°	44.0	44.0	44.0	43.8	43.8	44.2	44.2	44.2	44.4	44.4	44.4
157.5°	40.4	40.4	40.2	40.2	40.2	40.4	40.2	40.2	40.4	40.4	40.4
160°	37.5	37.5	37.3	37.3	37.1	37.3	37.1	37.1	37.3	37.3	37.3
162.5°	35.3	35.3	35.1	35.1	35.1	35.1	35.1	34.9	34.9	35.1	34.9
165°	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.4	33.4	33.4	33.4
167.5°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
170°	32.0	32.0	32.0	32.2	32.2	32.2	32.0	32.0	32.2	32.2	32.0
172.5°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
175°	31.8	31.8	31.8	31.8	31.8	31.8	31.6	31.8	31.8	31.8	31.8
177.5°	31.8	31.6	31.6	31.8	31.8	31.6	31.6	31.6	31.6	31.6	31.6
180°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8



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.

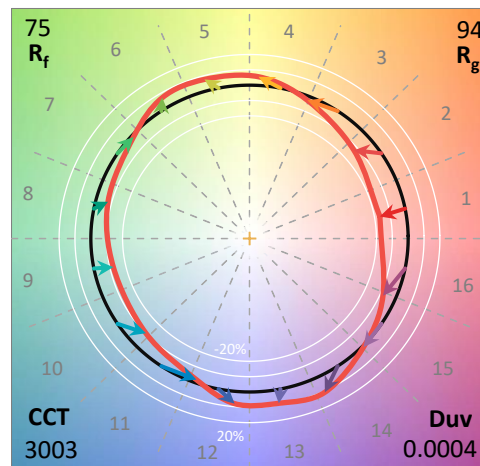
**Test Information**

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**

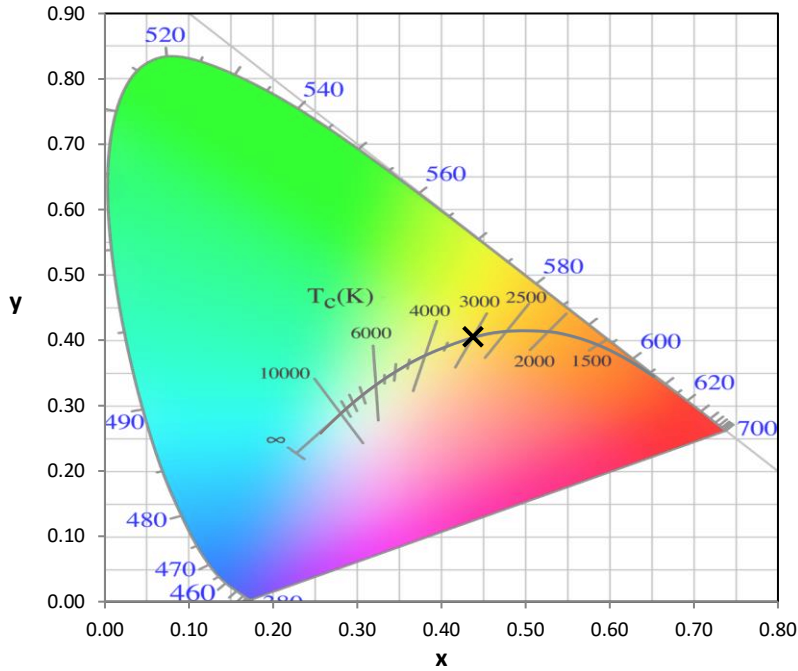
Stabilization Time: 0.794393M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

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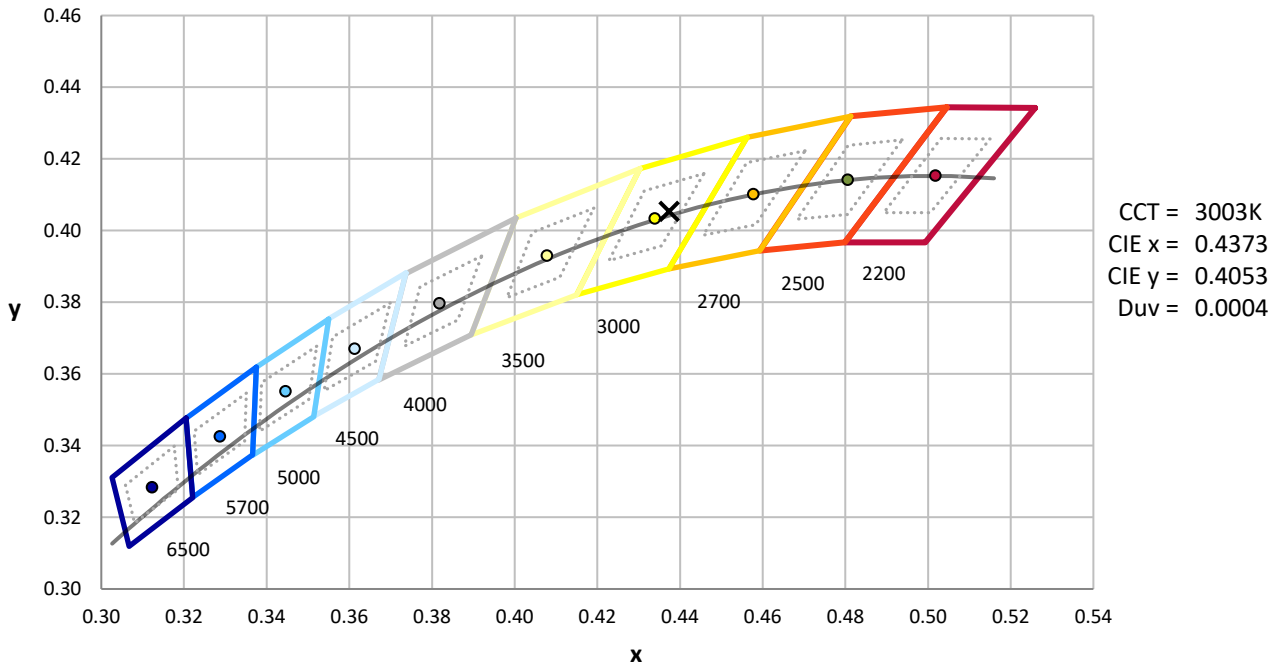
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



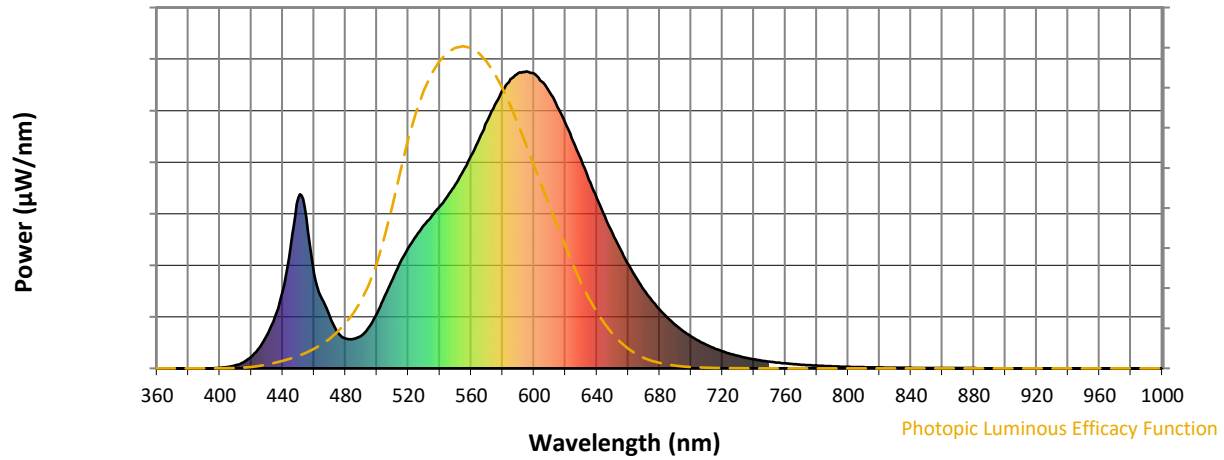
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

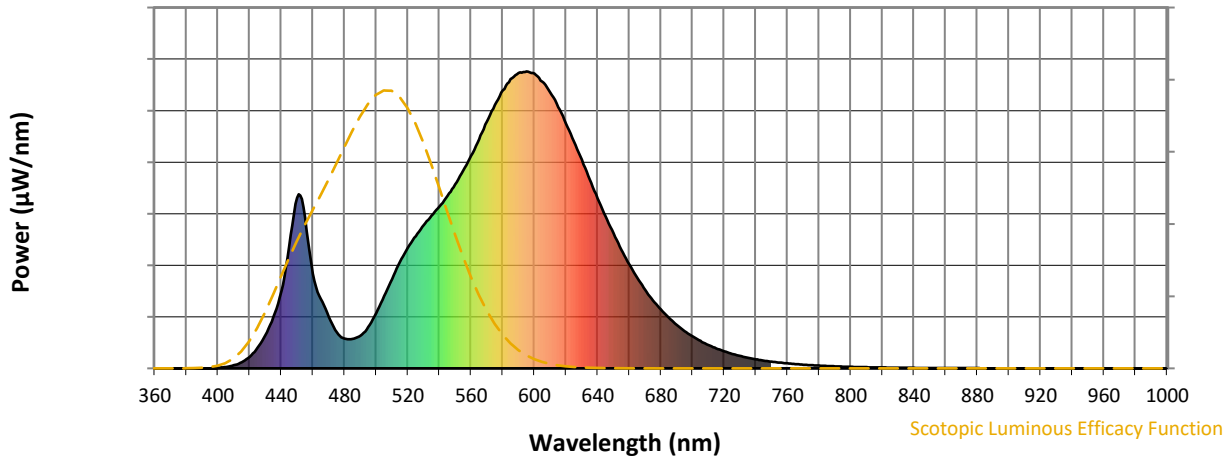


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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



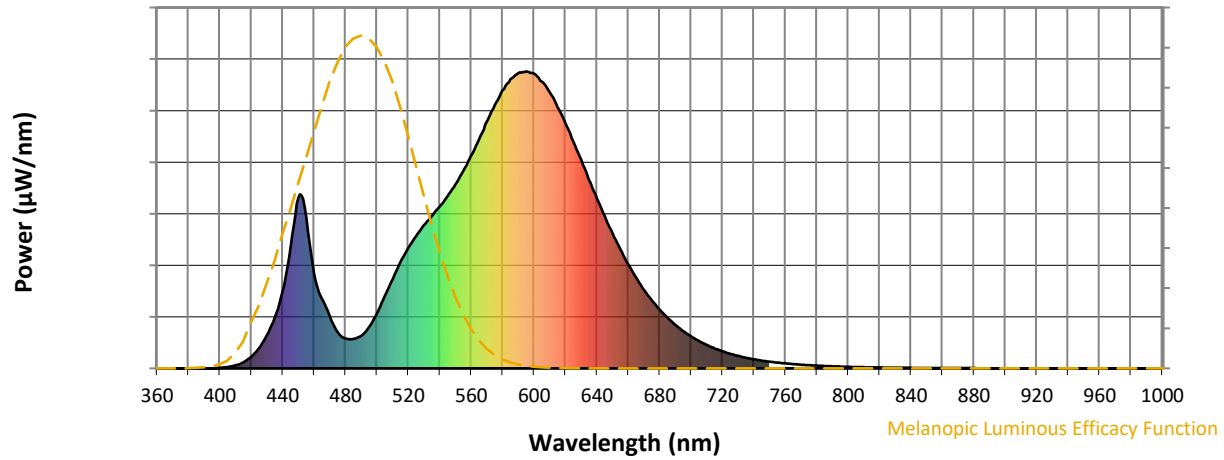
Scotopic Lumens: NR

S/P: 1.21

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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

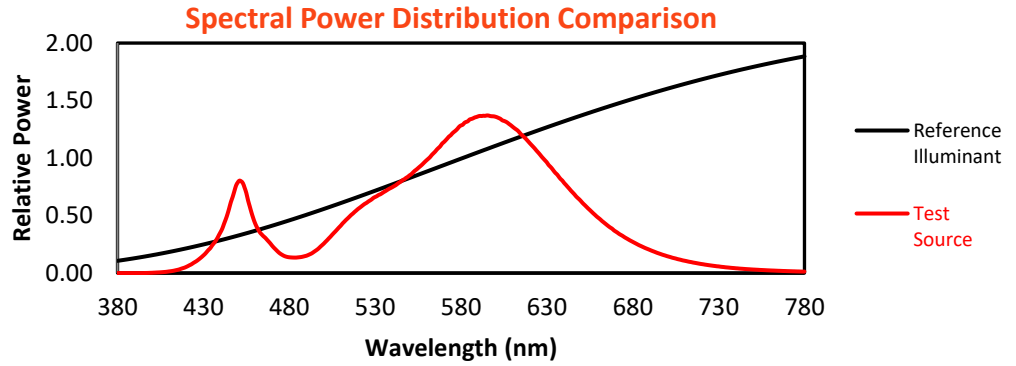
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	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
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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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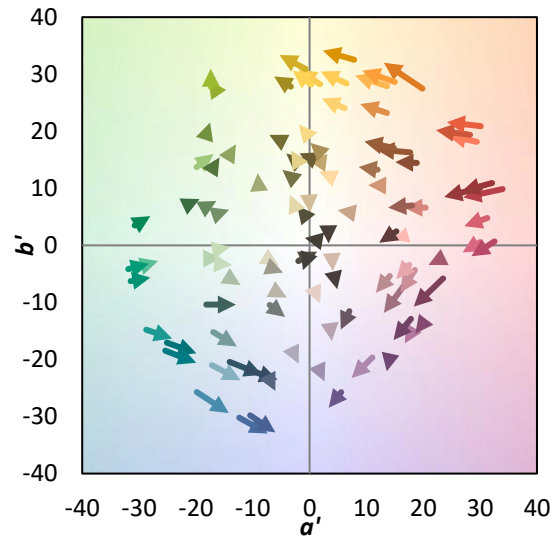
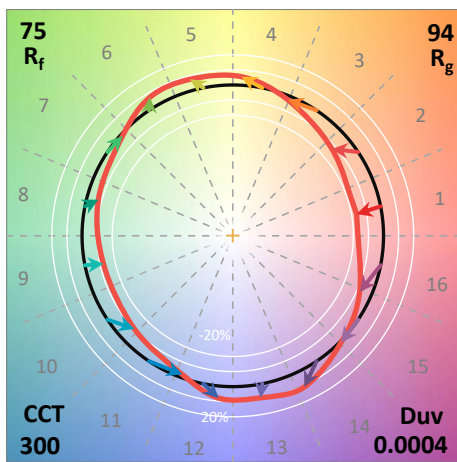
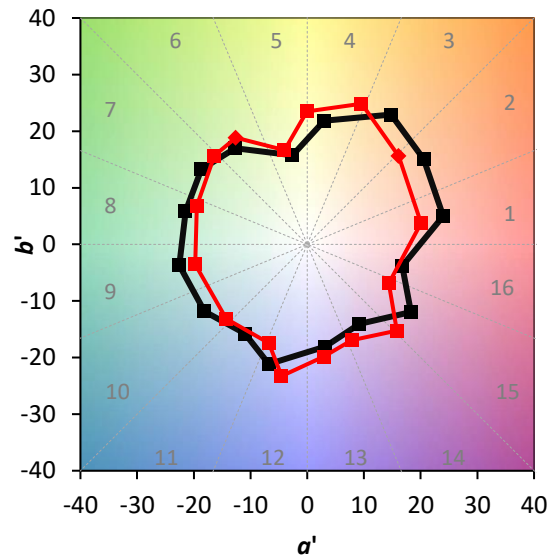
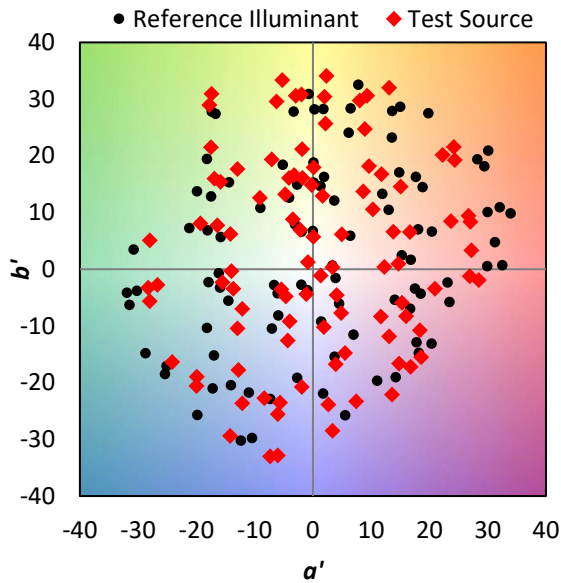
TM-30-18

**Summary**

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



**Color Vector Graphics**



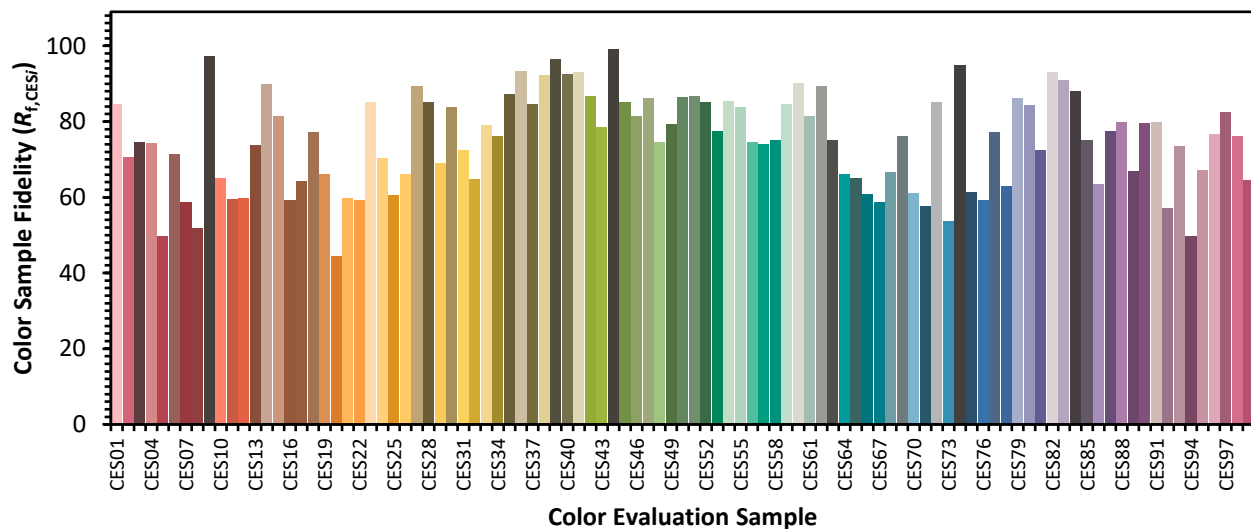


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

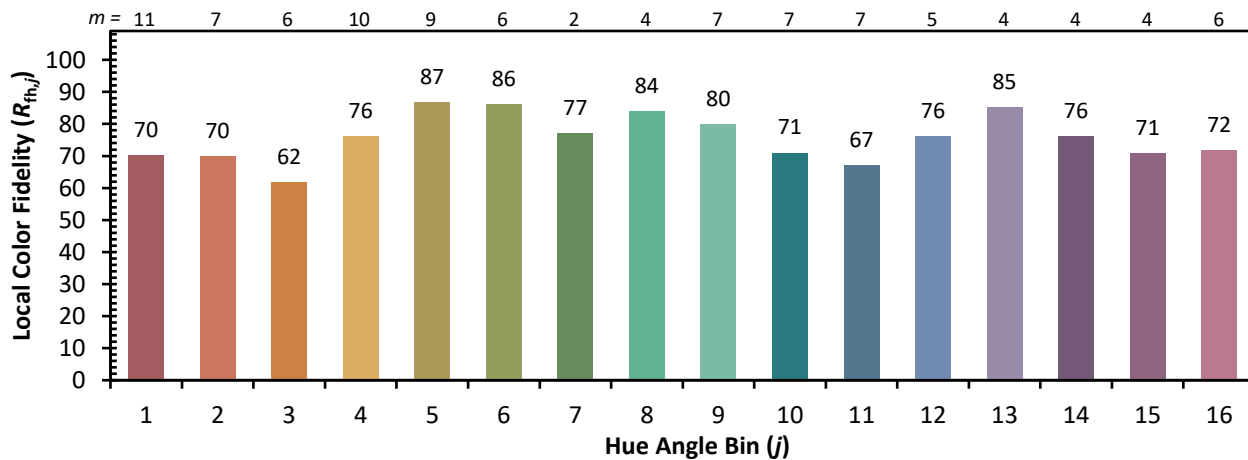
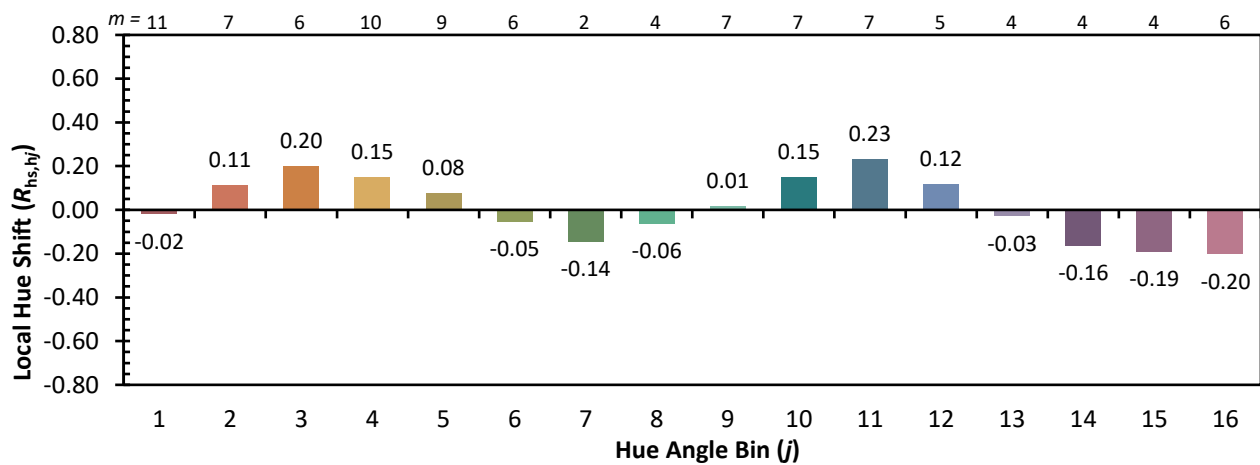
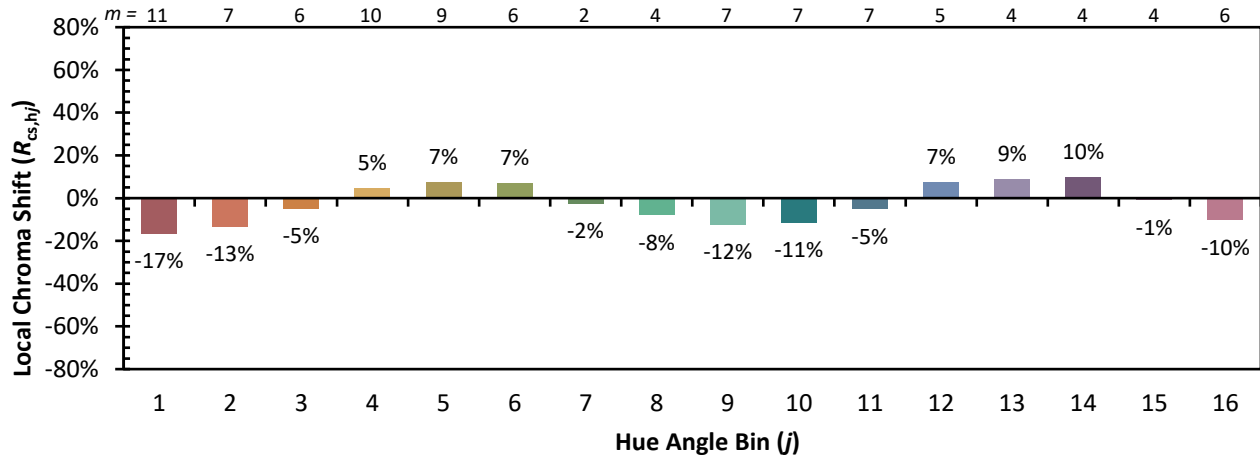
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CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 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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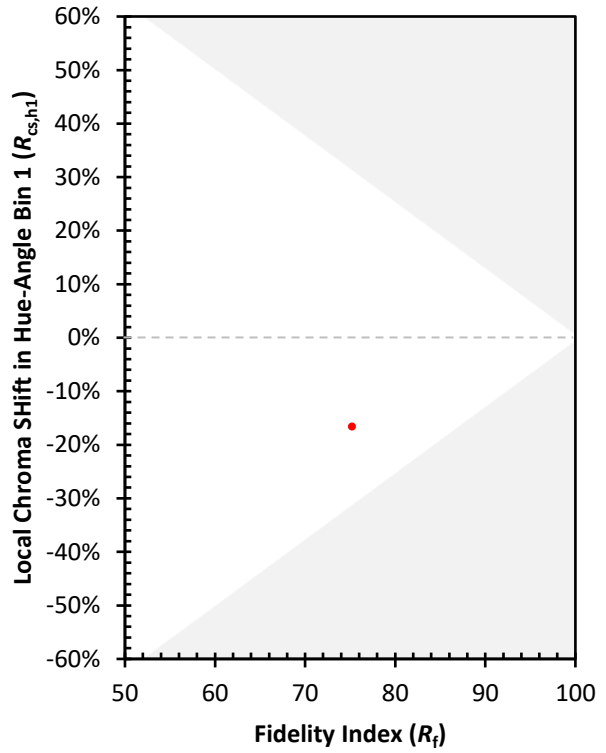
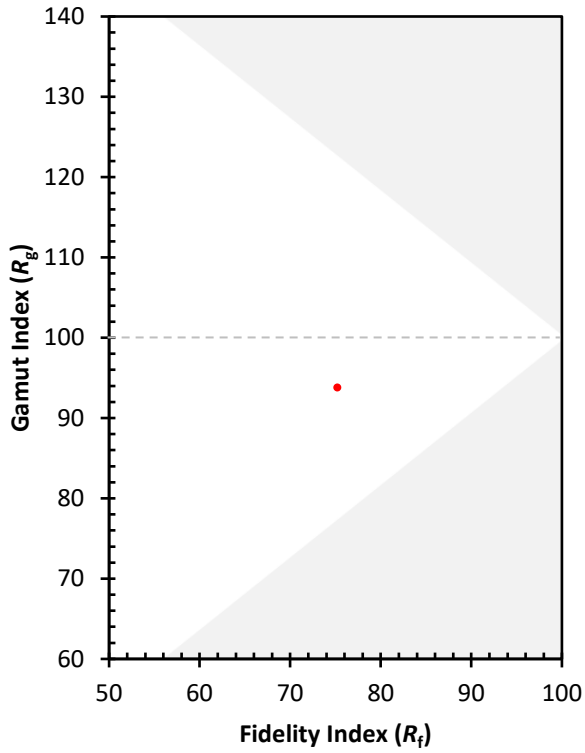
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)