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: P856361

Luminaire Tested: **FFX-CLB-20-740-U-VM8**

Issue Date: 07/16/2024

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P856361
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/16/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-740-U-VM8
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3285.6 lumens
Efficiency:	N/A
Efficacy:	168.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification:	Type V - Short
BUG Rating:	B1 - U5 - 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

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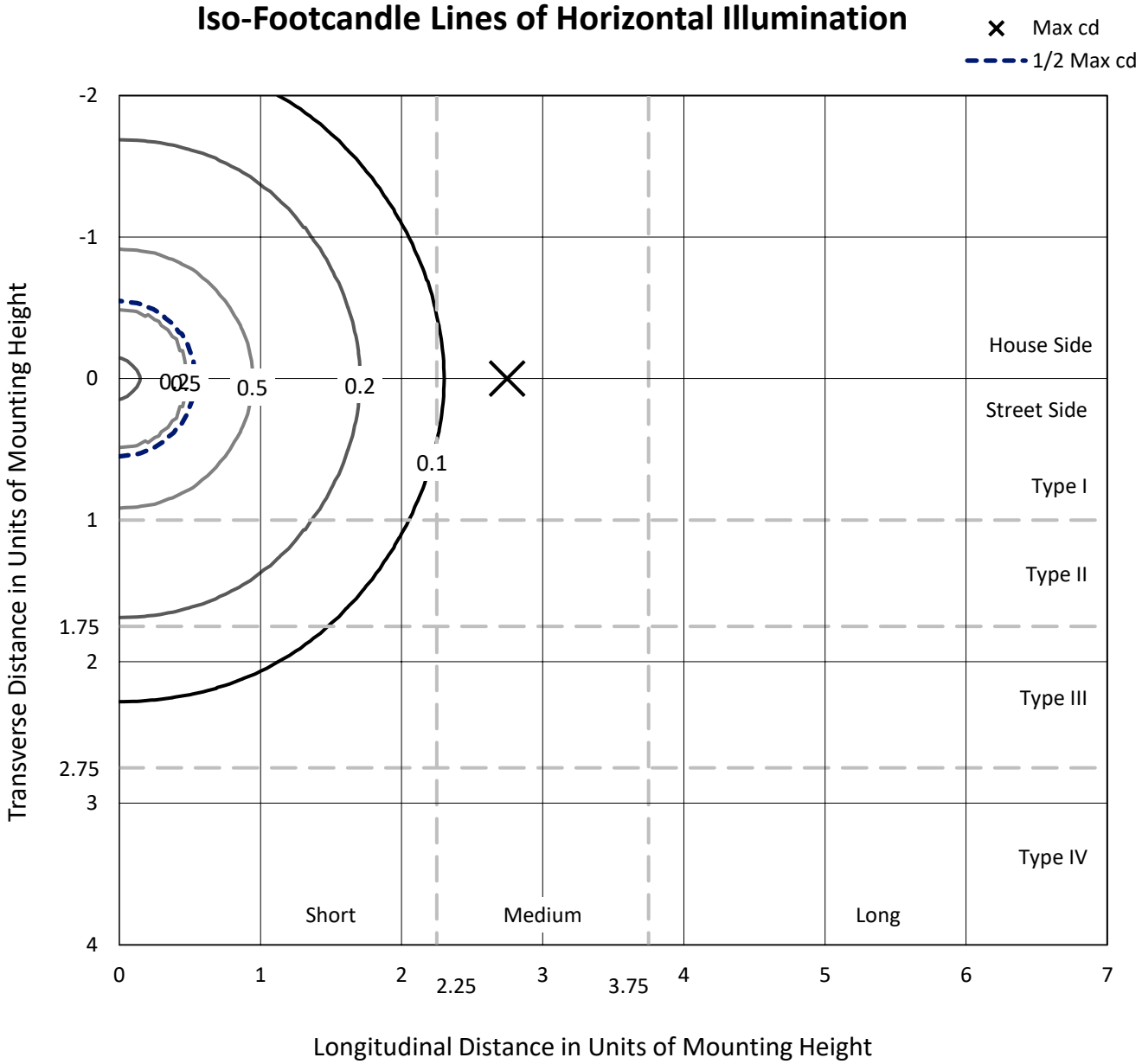
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
Type V - Short - N/A

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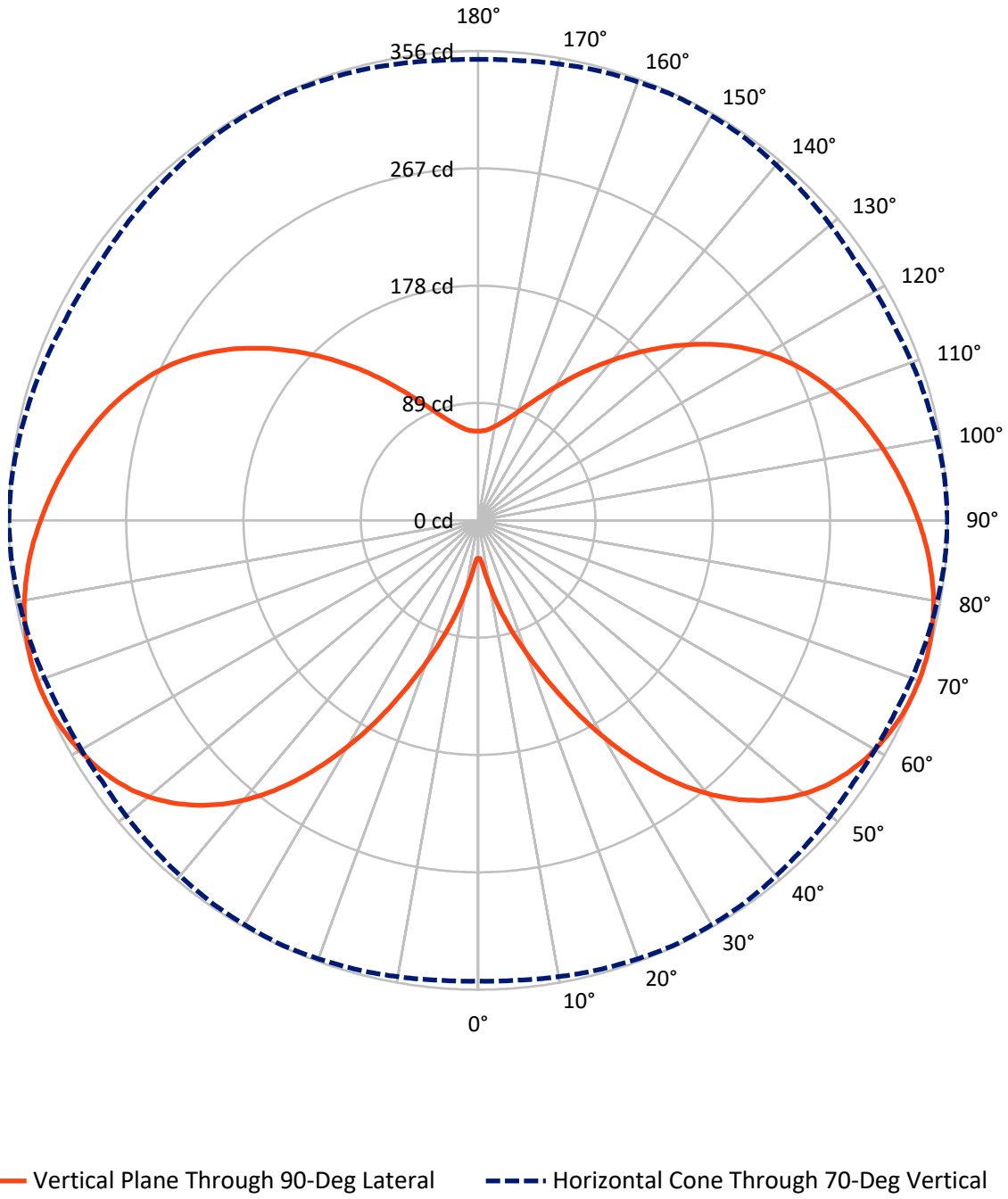
Luminous Intensity Polar Plot



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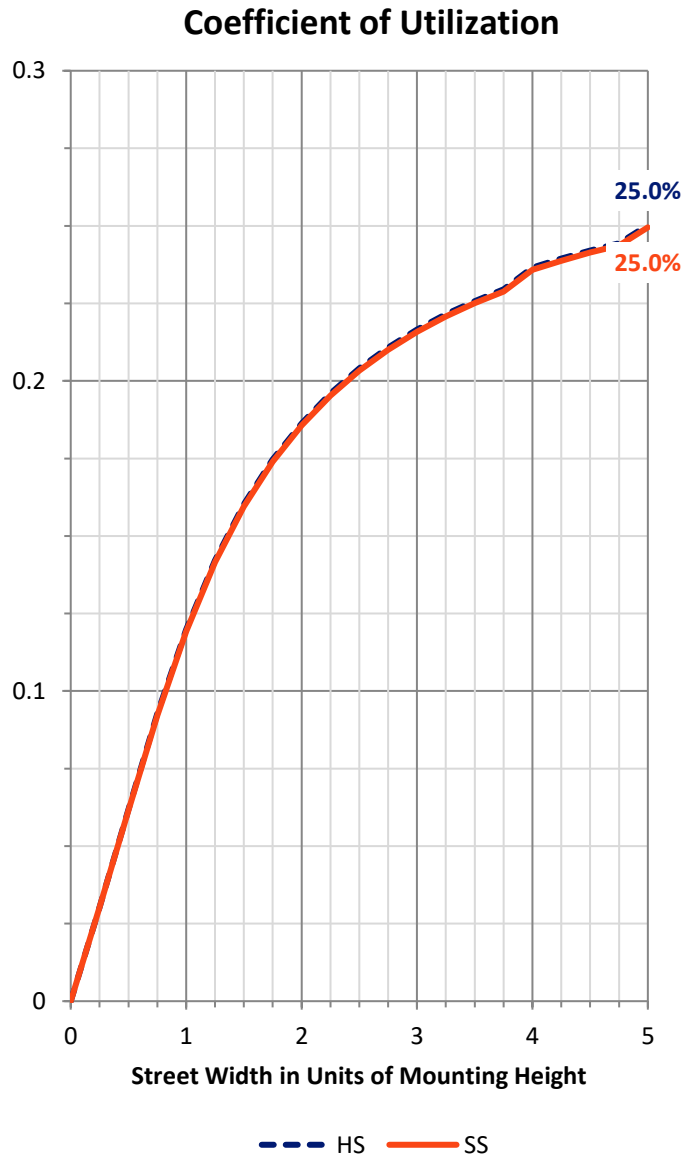
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.4	712.3	1642.8
	% Fixture	28.3	21.7	50.0
Street Side	Lumens	930.4	712.3	1642.8
	% Fixture	28.3	21.7	50.0
Total	Lumens	1860.9	1424.7	3285.6
	% Fixture	56.6	43.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.1
10°-20°	23.5	0.7
20°-30°	70.2	2.1
30°-40°	146.8	4.5
40°-50°	230.3	7.0
50°-60°	299.0	9.1
60°-70°	346.1	10.5
70°-80°	370.5	11.3
80°-90°	370.8	11.3
90°-100°	349.7	10.6
100°-110°	312.9	9.5
110°-120°	263.1	8.0
120°-130°	201.8	6.1
130°-140°	138.1	4.2
140°-150°	84.2	2.6
150°-160°	46.0	1.4
160°-170°	22.3	0.7
170°-180°	6.6	0.2
0°-90°	1860.9	56.6
0°-180°	3285.6	100.0



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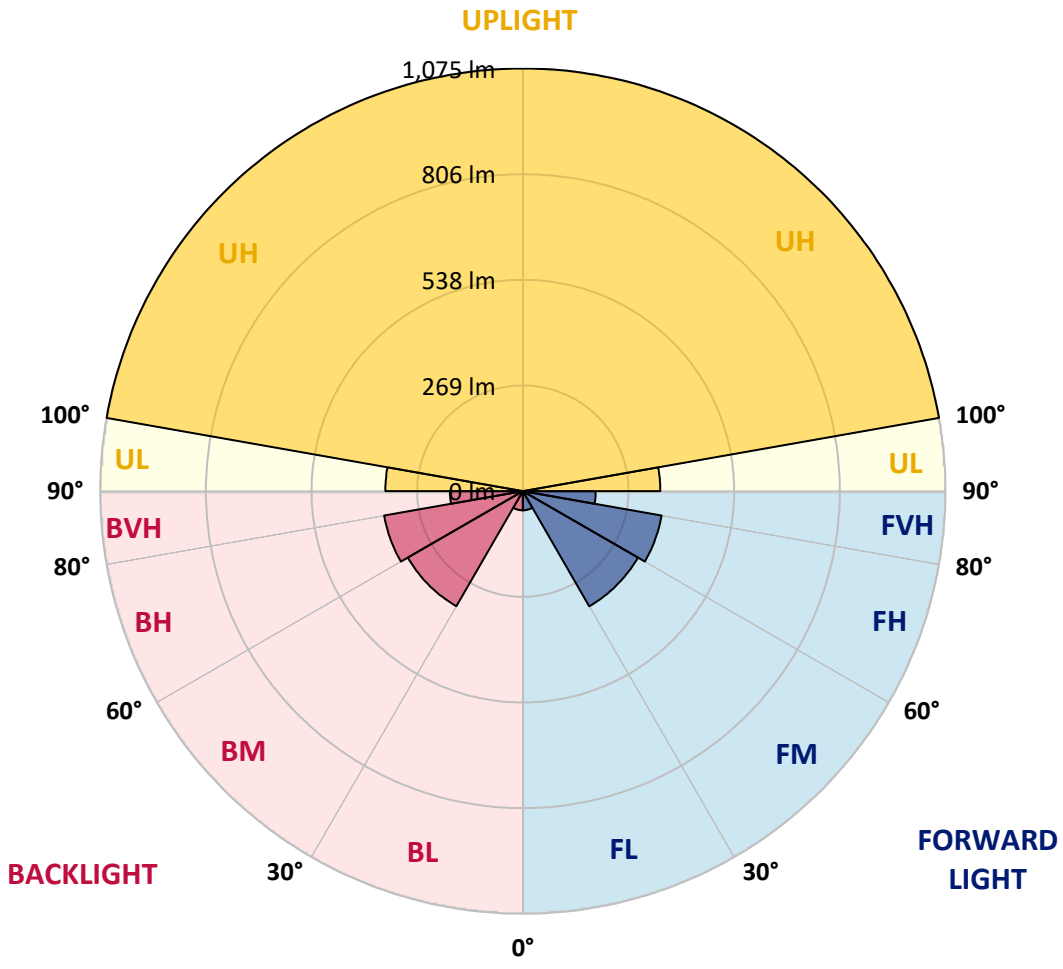
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	48.8	1.5			
FM	(30°-60°)	338.0	10.3			
FH	(60°-80°)	358.3	10.9			G0/660
FVH	(80°-90°)	185.4	5.6			G2/225
BL	(0°-30°)	48.8	1.5	B0/110		
BM	(30°-60°)	338.0	10.3	B1/1000		
BH	(60°-80°)	358.3	10.9	B1/500		G0/660
BVH	(80°-90°)	185.4	5.6			G2/225
UL	(90°-100°)	349.7	10.6		U3/500	
UH	(100°-180°)	1075.0	32.7		U5	

BUG Rating: B1-U5-G2
Type V Short



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REPORT NUMBER: P856361
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	*28.8*
2.5°	30.1	30.1	29.9	29.9	29.7	29.5	29.5	29.5	29.3	29.3	*29.1*
5°	34.3	34.1	34.1	33.9	34.1	33.9	33.9	33.9	33.9	33.5	*33.5*
7.5°	42.5	42.3	42.3	42.1	42.5	42.1	42.1	42.3	42.3	42.1	*42.1*
10°	53.3	53.1	53.1	52.6	53.1	52.9	52.9	52.4	52.6	52.4	*52.6*
12.5°	66.1	65.5	65.5	65.3	65.7	65.5	65.3	64.9	65.3	65.1	*65.1*
15°	79.4	79.6	79.4	79.2	79.6	79.6	79.4	79.0	79.4	79.0	*79.2*
17.5°	94.1	94.1	94.1	93.5	94.1	94.3	94.1	93.7	93.9	94.1	*94.1*
20°	110.1	110.1	110.3	109.9	111.0	110.3	110.1	109.9	110.1	110.3	*110.5*
22.5°	127.8	127.8	128.0	127.8	128.4	128.4	128.2	128.2	128.4	128.9	*128.9*
25°	147.4	147.6	147.6	147.0	148.5	148.9	148.5	148.5	148.9	149.5	*149.5*
27.5°	167.6	168.5	168.0	168.0	169.9	170.1	169.9	170.1	170.8	171.4	*171.6*
30°	188.5	189.1	189.9	189.3	191.4	191.6	191.8	192.0	192.9	193.9	*193.9*
32.5°	209.3	209.9	210.4	210.4	213.1	212.9	212.7	213.5	214.8	215.2	*215.8*
35°	230.2	230.2	230.6	230.8	233.5	233.3	233.7	234.4	235.6	236.5	*236.9*
37.5°	248.9	248.5	249.5	249.9	252.1	252.3	252.5	253.5	255.0	256.1	*256.5*
40°	265.9	265.5	266.8	267.4	269.3	269.3	269.7	271.0	272.7	273.7	*273.9*
42.5°	281.1	280.9	282.2	283.0	284.9	284.7	284.5	286.2	288.1	289.3	*289.7*
45°	294.2	294.0	295.6	296.7	298.2	297.7	297.7	299.2	301.3	302.8	*303.0*
47.5°	305.3	305.3	307.2	308.5	309.7	309.1	308.7	310.2	312.3	314.4	*314.6*
50°	315.2	315.0	317.1	318.6	319.6	318.8	318.2	319.6	322.0	324.1	*324.5*
52.5°	323.0	323.4	325.5	327.4	328.3	327.0	326.0	327.4	330.0	332.3	*332.7*
55°	329.8	330.0	332.3	334.6	335.0	333.3	332.1	333.3	336.1	338.6	*339.0*
57.5°	335.0	335.4	338.2	340.3	340.5	338.6	337.1	338.2	341.1	343.6	*344.3*
60°	339.6	340.1	342.6	344.9	345.1	342.8	340.9	341.8	344.9	347.9	*348.3*
62.5°	343.2	343.9	346.6	348.7	348.7	346.0	343.6	344.5	347.9	351.0	*351.4*
65°	346.2	346.8	349.5	351.6	351.4	348.3	345.8	346.6	350.2	353.3	*354.0*
67.5°	348.3	348.7	351.6	353.8	352.9	349.5	347.0	347.6	351.4	354.6	*355.2*
70°	*349.5*	*350.0*	*352.9*	*354.8*	*353.5*	*350.0*	*347.2*	*348.1*	*351.9*	*355.2*	*355.9*
72.5°	350.2	350.8	353.5	355.2	353.8	349.8	346.8	347.9	351.6	355.2	*355.7*
75°	350.0	350.4	353.1	354.6	352.7	348.9	345.8	346.8	350.8	354.0	*354.6*
77.5°	348.9	349.3	351.9	353.1	350.8	347.0	344.1	345.1	348.9	352.1	*352.7*
80°	347.2	347.6	350.0	350.8	348.5	344.7	342.0	343.0	346.6	349.5	*350.2*
82.5°	344.5	345.1	347.2	347.6	345.1	341.8	339.0	340.1	343.4	346.2	*346.6*
85°	341.1	341.5	343.4	343.6	341.1	338.2	335.9	336.9	339.9	342.0	*342.6*
87.5°	337.3	337.3	339.2	339.2	336.5	333.8	332.1	332.9	335.6	337.3	*338.0*
90°	332.7	332.9	334.2	334.0	331.4	329.1	327.6	328.7	331.0	332.5	*332.9*
92.5°	327.6	327.9	328.9	328.5	326.0	324.1	322.8	324.1	326.2	327.2	*327.6*
95°	322.2	322.4	323.2	322.4	320.1	318.6	317.5	319.0	320.7	321.7	*322.2*
97.5°	316.5	316.7	317.3	316.5	314.0	312.7	312.3	313.5	315.2	316.1	*316.5*
100°	310.6	310.6	311.0	309.7	307.6	306.6	306.4	307.9	309.5	310.4	*310.8*
102.5°	304.1	304.3	304.3	303.0	300.9	300.3	300.3	302.0	303.6	304.3	*304.7*
105°	297.3	297.3	297.3	296.3	294.0	293.5	293.7	295.4	297.3	298.2	*298.6*
107.5°	290.0	290.2	289.7	288.7	286.8	286.4	286.8	289.1	290.8	291.6	*292.1*
110°	282.2	282.4	282.2	280.9	279.2	279.0	279.6	282.0	283.6	284.5	*285.1*

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Scaled Data Report

REPORT NUMBER: P856361
CATALOG NUMBER: FFX-CLB-20-740-U-VM8

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	273.9	274.2	273.9	272.9	271.2	271.2	272.1	274.4	276.3	276.9	*277.5*
115°	265.3	265.5	265.1	264.3	262.6	263.0	263.8	266.2	268.1	268.7	*269.5*
117.5°	256.1	256.3	256.1	255.0	253.5	253.9	255.2	257.5	259.2	259.8	*260.7*
120°	245.9	245.9	245.9	244.9	243.4	244.3	245.5	248.0	249.5	249.9	*250.8*
122.5°	235.6	235.2	235.2	234.6	232.9	233.9	235.2	237.7	239.2	239.4	*240.0*
125°	224.3	224.5	223.8	223.4	221.9	223.2	224.3	226.8	228.0	228.3	*228.9*
127.5°	212.0	212.7	212.0	211.4	210.4	211.6	212.9	215.2	216.3	216.5	*216.9*
130°	200.7	200.7	200.0	199.6	198.6	199.8	201.1	203.2	204.3	204.3	*204.7*
132.5°	189.3	188.7	188.5	188.0	186.8	188.2	189.1	191.2	192.0	191.8	*192.2*
135°	176.9	176.9	176.2	176.0	175.0	176.5	177.3	179.2	179.8	179.6	*180.0*
137.5°	165.3	165.3	164.9	164.5	163.8	165.1	165.9	167.4	168.0	167.4	*168.0*
140°	153.9	153.9	153.7	153.3	152.7	153.9	154.6	155.8	156.5	155.8	*156.2*
142.5°	143.4	143.0	142.8	142.6	141.7	143.0	143.4	144.7	144.9	144.5	*145.1*
145°	132.2	132.4	132.2	132.0	131.4	132.4	132.9	133.9	134.1	133.7	*134.3*
147.5°	123.0	122.3	122.6	122.3	121.7	122.8	123.0	123.6	124.0	123.6	*124.0*
150°	113.7	113.3	113.3	113.1	112.7	113.5	113.7	114.3	114.5	114.1	*114.5*
152.5°	105.5	105.3	105.3	105.1	104.7	105.3	105.5	105.9	106.1	105.7	*105.9*
155°	98.1	97.9	97.9	97.7	97.3	97.9	97.9	98.3	98.5	98.3	*98.5*
157.5°	91.6	91.4	91.4	91.4	91.0	91.4	91.4	91.8	91.8	91.6	*91.8*
160°	86.3	85.9	86.1	85.9	85.5	85.9	85.9	86.1	86.1	86.1	*86.1*
162.5°	81.5	81.5	81.5	81.3	81.1	81.3	81.3	81.5	81.5	81.5	*81.3*
165°	77.7	77.7	77.7	77.5	77.3	77.5	77.5	77.5	77.5	77.5	*77.5*
167.5°	74.5	74.3	74.5	74.3	74.1	74.3	74.3	74.3	74.3	74.3	*74.3*
170°	71.8	71.8	71.8	71.8	71.6	71.8	71.8	71.8	71.8	71.8	*71.8*
172.5°	70.1	69.9	69.9	69.9	69.7	69.9	69.7	69.9	69.7	69.9	*69.7*
175°	68.6	68.6	68.6	68.6	68.4	68.4	68.4	68.4	68.4	68.4	*68.4*
177.5°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	*67.8*
180°	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	*67.6*

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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: SP1-2406-133-1

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.03

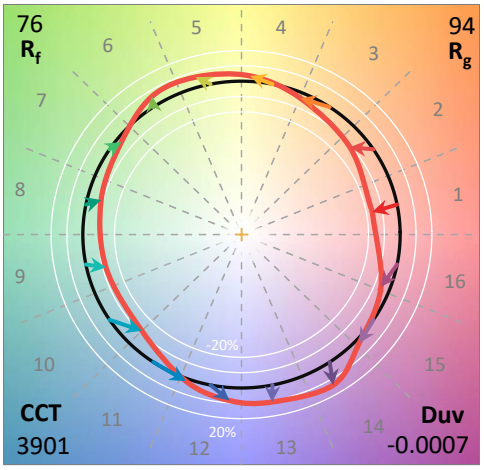
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2406-133-1
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-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3901	CRI (Ra):	74.5		
CIE u':	0.2273	R1:	71.8	R9:	-23.4
CIE v':	0.5026	R2:	81.9	R10:	56.6
Duv:	-0.0007	R3:	89.3	R11:	68.4
CIE x:	0.3844	R4:	72.6	R12:	46.6
CIE y:	0.3776	R5:	71.3	R13:	73.7
CIE z:	0.2380	R6:	74.0	R14:	93.9
Peak Wavelength (nm):	451	R7:	81.5	R15:	65.1
Dominant Wavelength (nm):	579	R8:	53.3		
Purity:	28.6799				
Rf:	76.2				
Rg:	94.4				



Test Conditions

Stabilization Time:	0.818109M
Operation Time:	1H
Sphere Temperature (°C):	24.6

Cooper Lighting Solutions Photometric Lab
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REPORT NUMBER: SP1-2406-133-1

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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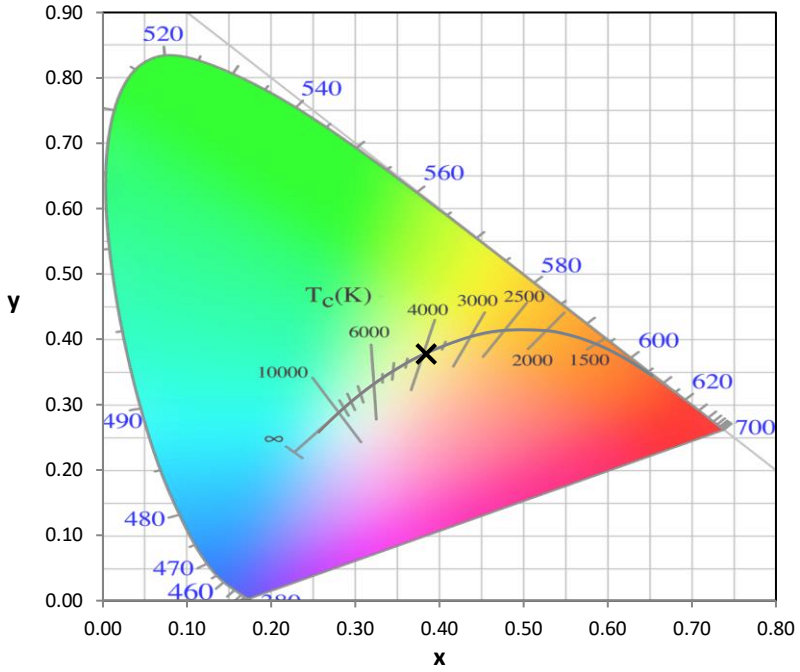
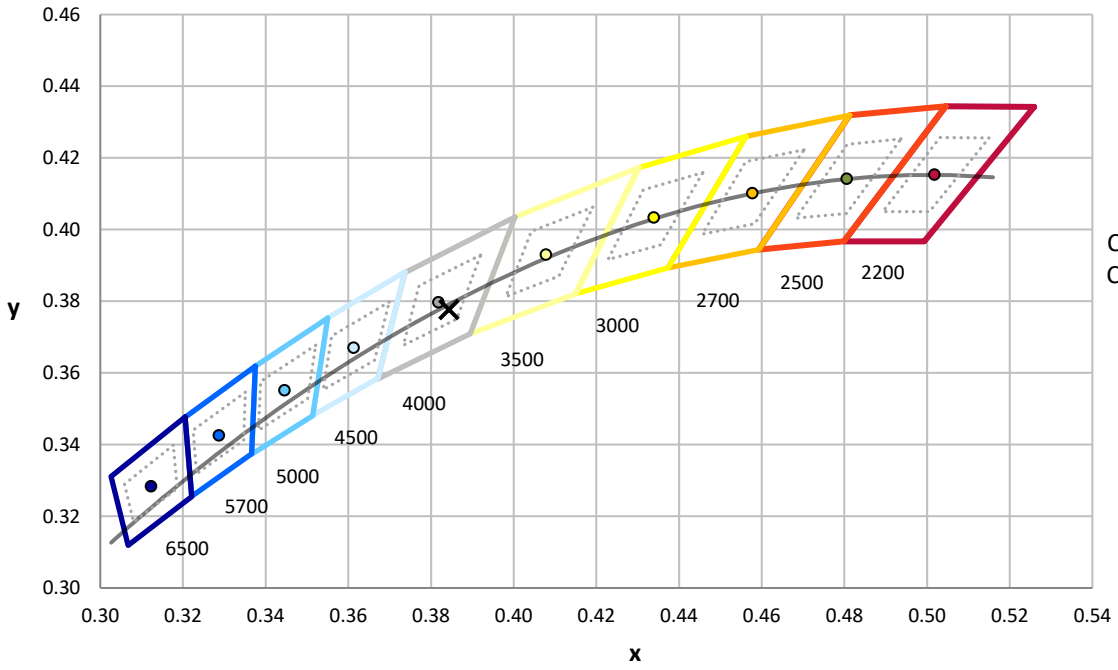
CIE 1931 Chromaticity Diagram



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



CCT = 3901K
CIE x = 0.3844
CIE y = 0.3776
Duv = -0.0007

Point lies inside the ANSI 4000K 4-step quadrangle

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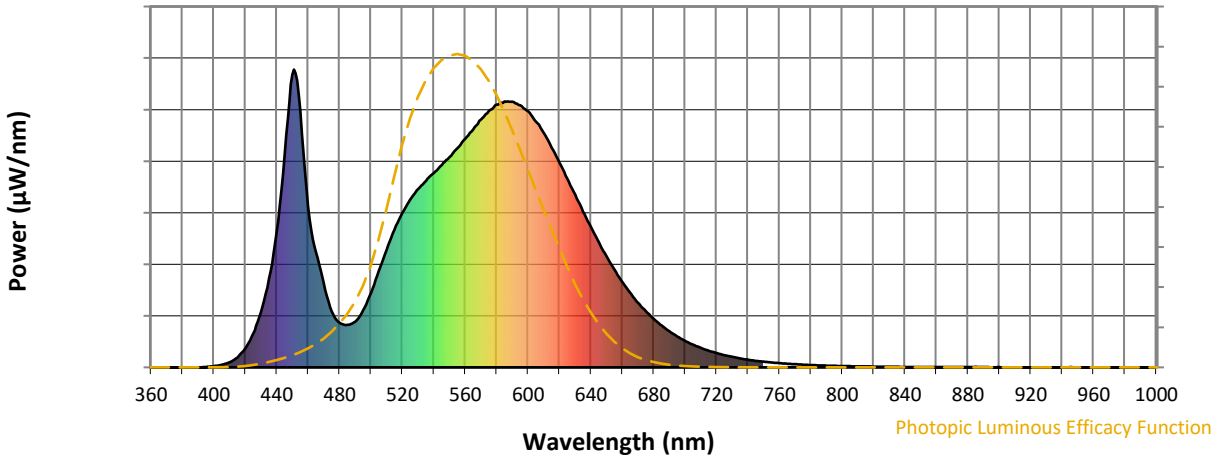
Photopic Flux vs. Wavelength



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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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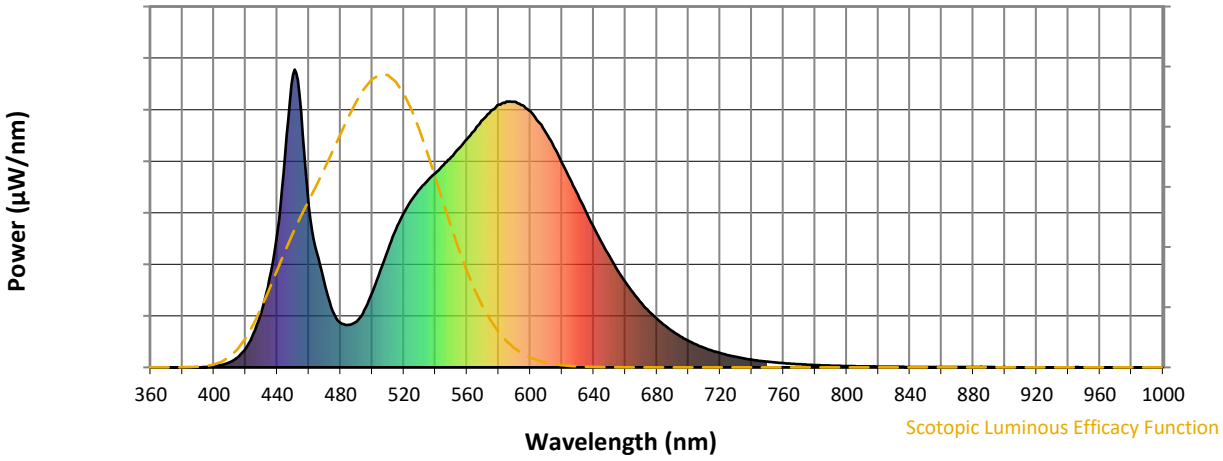
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.53**

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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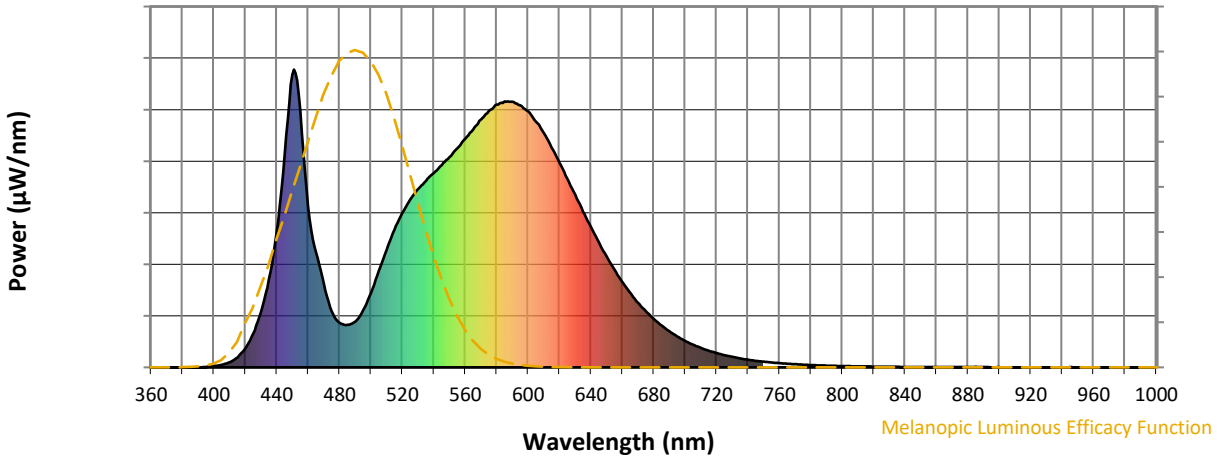
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.04**

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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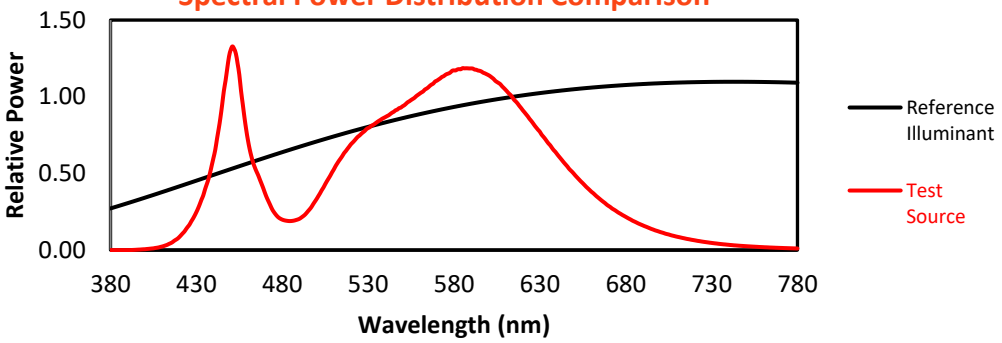
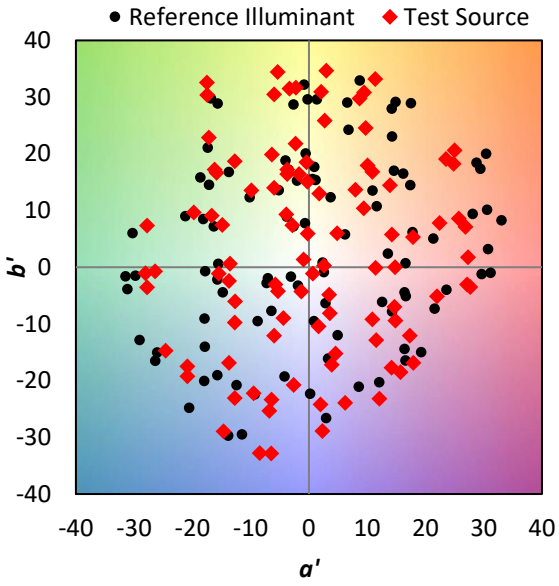
Summary

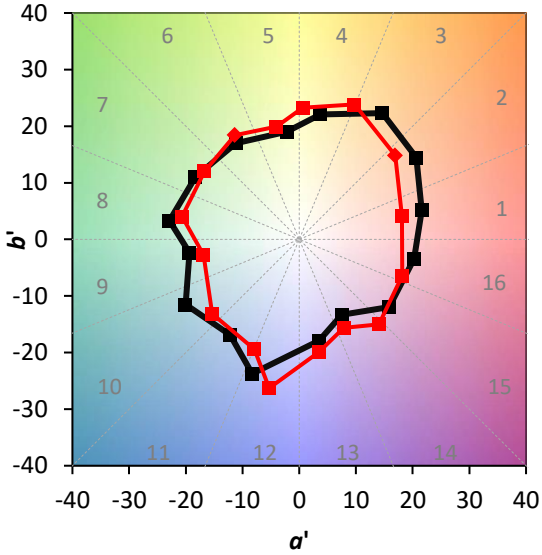
R_f = 76.2
R_g = 94.4
CIE R_a = 74.5
R_9 = -23.4

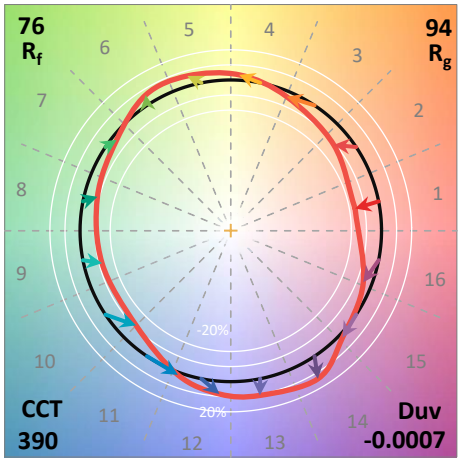
Spectral Power Distribution Comparison

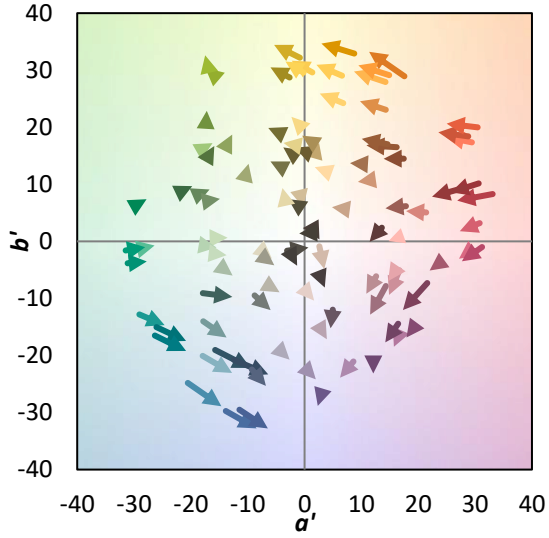


Color Vector Graphics









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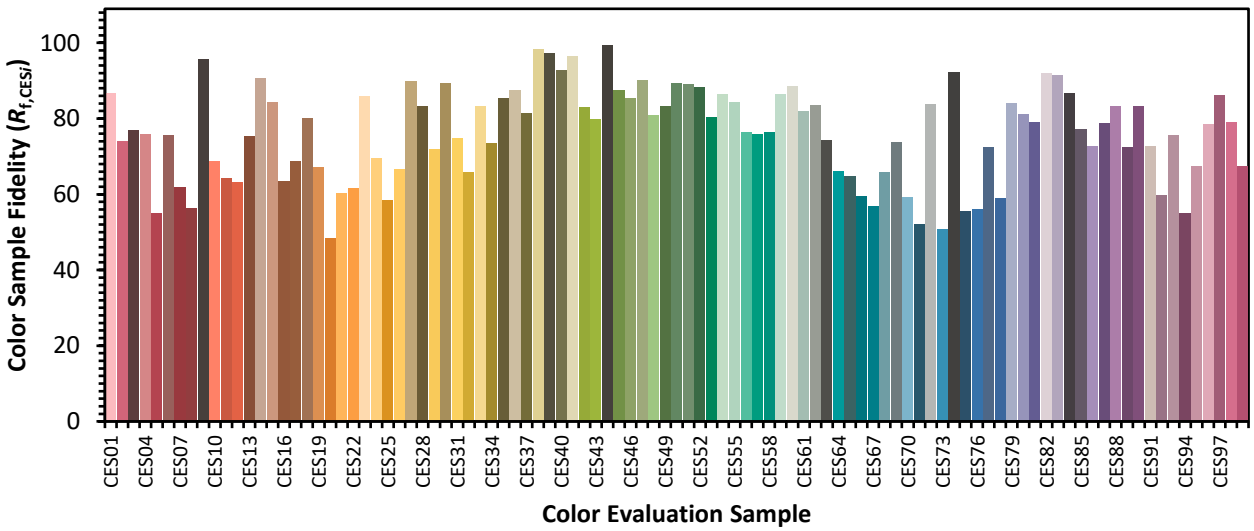
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 92
CES08 = 39	CES33 = 83	CES58 = 76	CES83 = 92
CES09 = 29	CES34 = 74	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 85	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 73
CES12 = 63	CES37 = 81	CES62 = 84	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 74	CES88 = 83
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 59	CES91 = 73
CES17 = 49	CES42 = 83	CES67 = 57	CES92 = 60
CES18 = 56	CES43 = 80	CES68 = 66	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 74	CES94 = 55
CES20 = 65	CES45 = 87	CES70 = 59	CES95 = 67
CES21 = 86	CES46 = 85	CES71 = 52	CES96 = 78
CES22 = 78	CES47 = 90	CES72 = 84	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 51	CES98 = 79
CES24 = 91	CES49 = 83	CES74 = 92	CES99 = 68
CES25 = 72	CES50 = 89	CES75 = 56	



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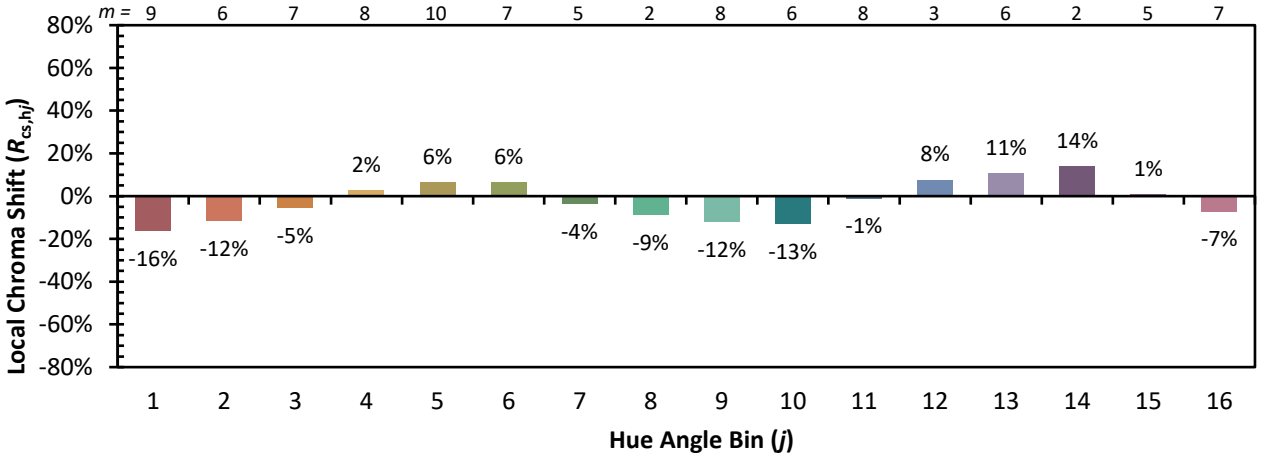
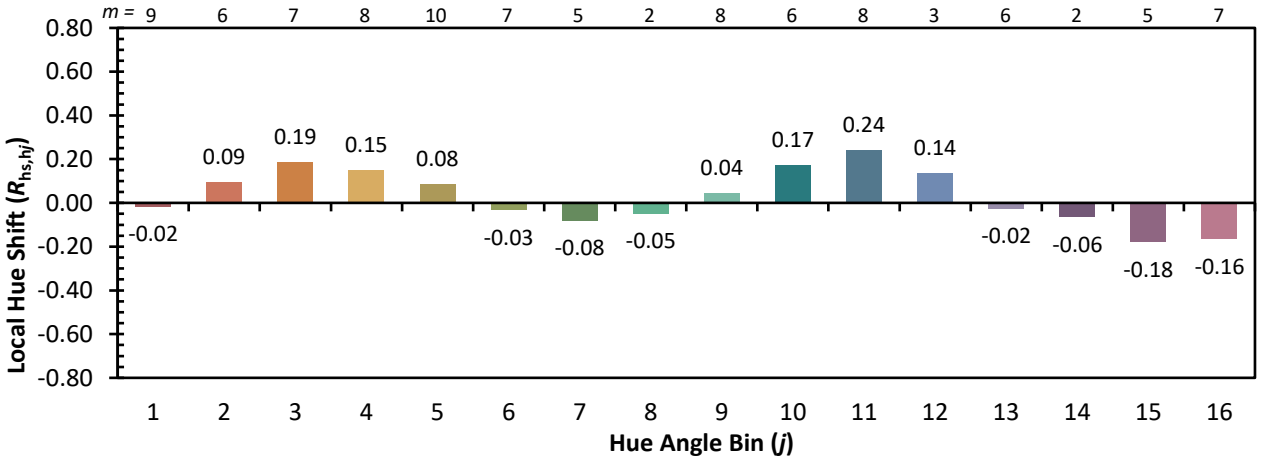
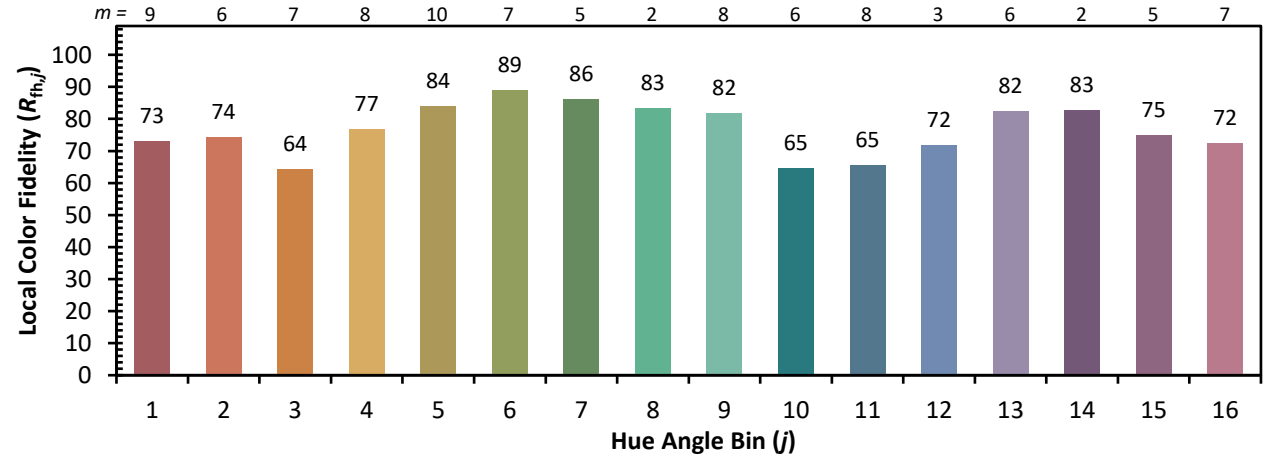
Color Rendition by Hue-Angle Bin







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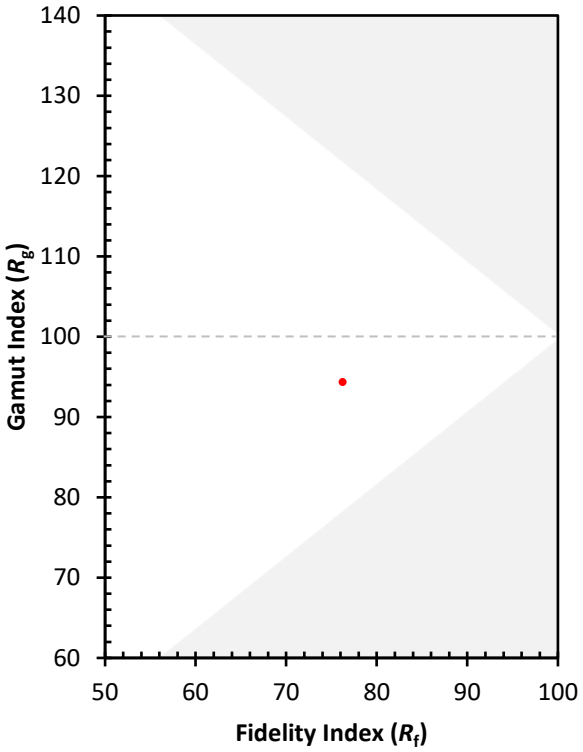
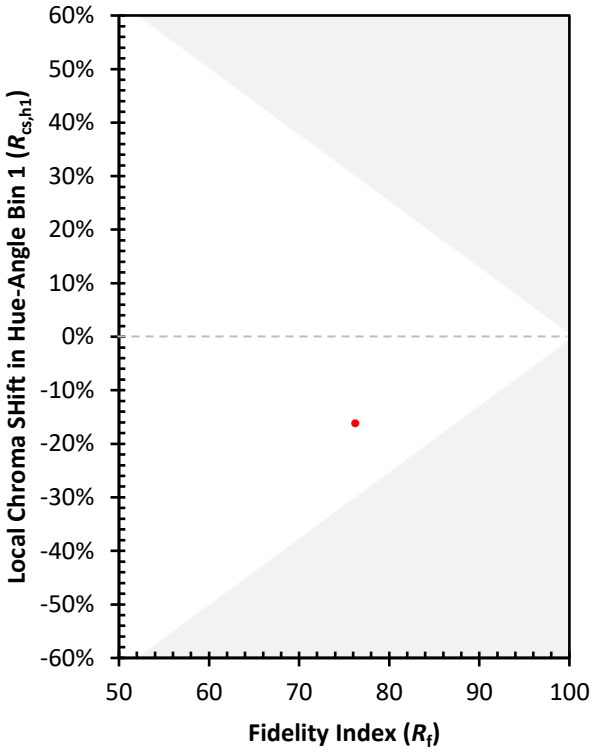
Measure Comparisons





(END OF REPORT)