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: P856342

Luminaire Tested: **FFX-CLB-30-727-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:	P856342
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/16/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-727-U-VM8
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4589.7 lumens
Efficiency:	N/A
Efficacy:	150.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification:	Type V - Short
BUG Rating:	B2 - U5 - G3

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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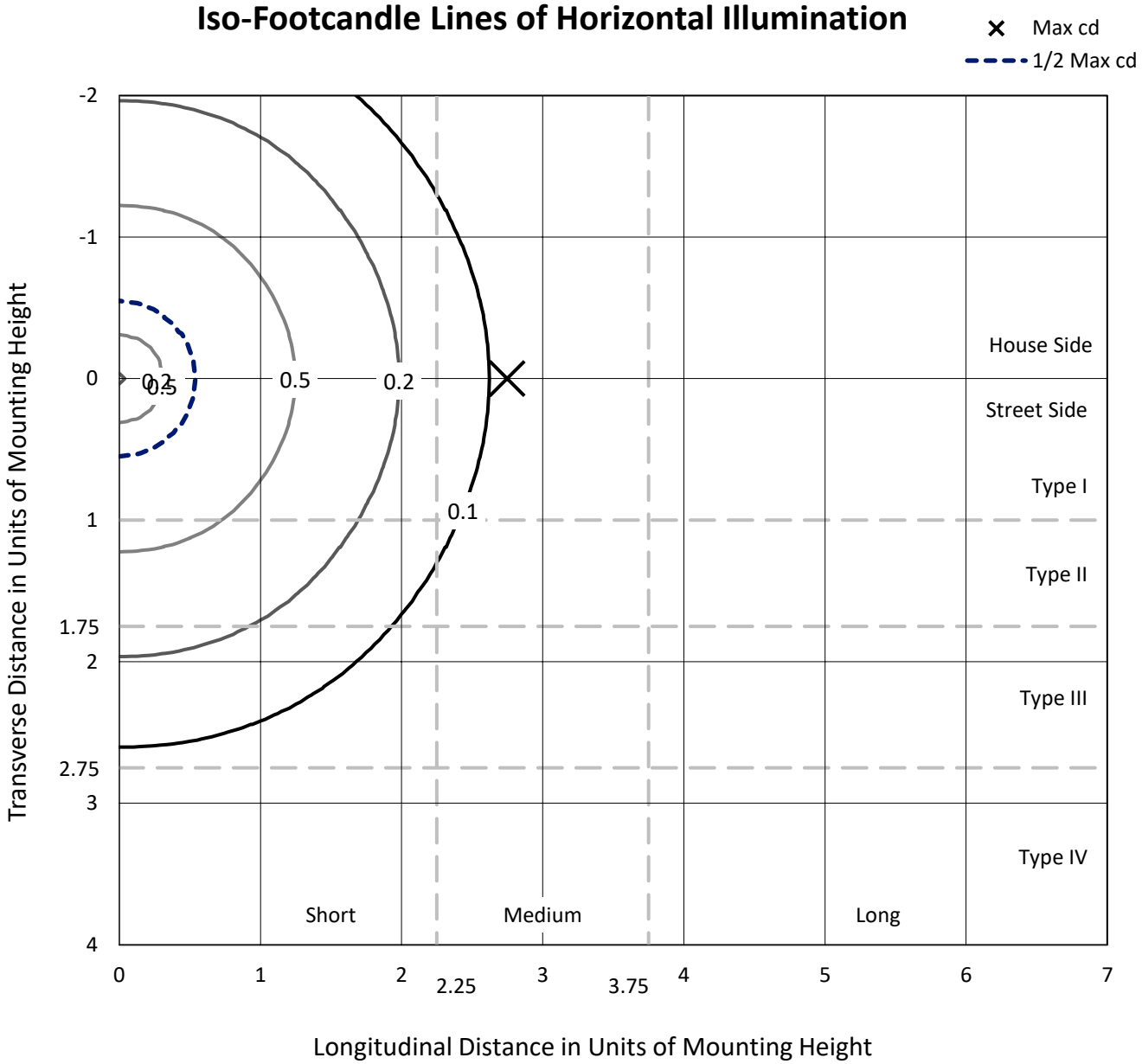
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type V - Short - N/A

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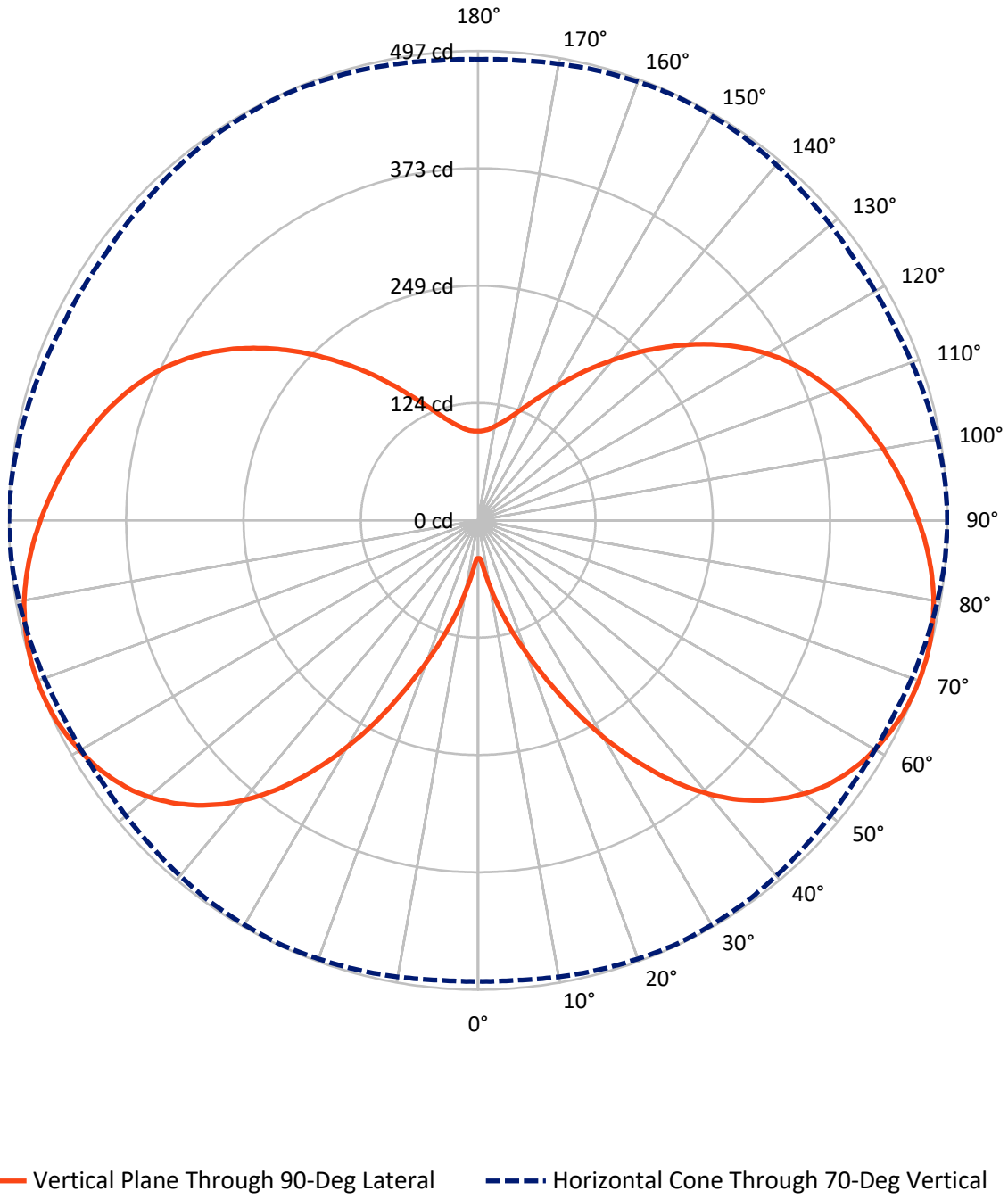
Luminous Intensity Polar Plot



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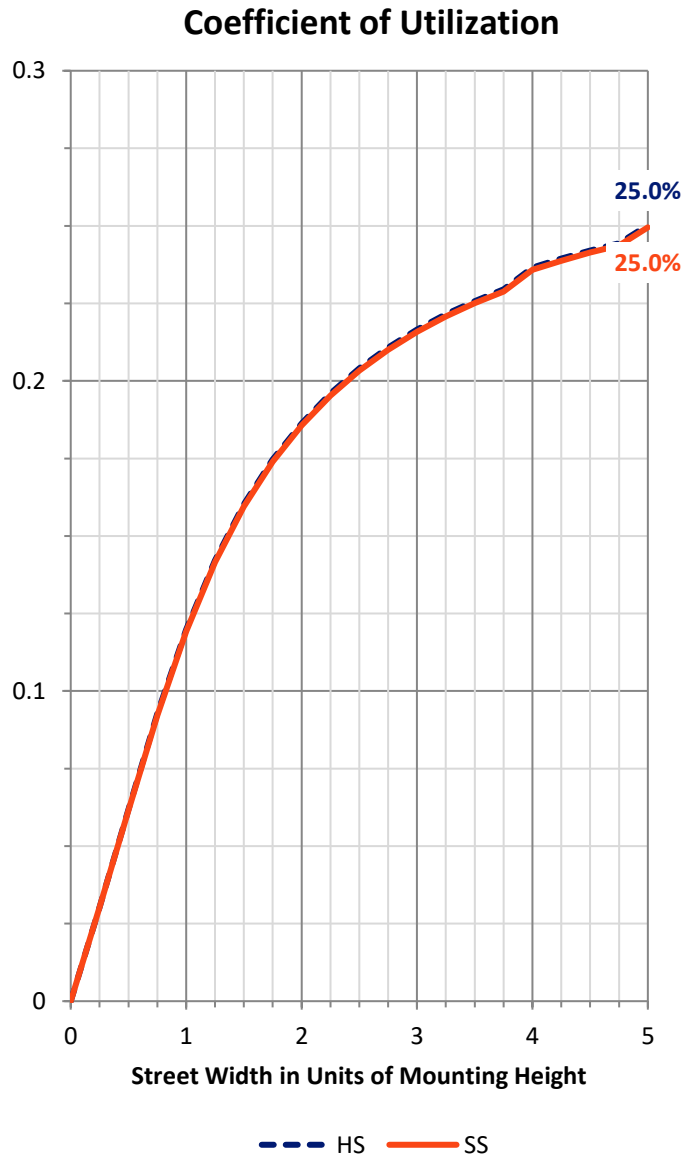
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.8	995.1	2294.9
	% Fixture	28.3	21.7	50.0
Street Side	Lumens	1299.8	995.1	2294.9
	% Fixture	28.3	21.7	50.0
Total	Lumens	2599.5	1990.2	4589.7
	% Fixture	56.6	43.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.1
10°-20°	32.9	0.7
20°-30°	98.0	2.1
30°-40°	205.0	4.5
40°-50°	321.7	7.0
50°-60°	417.6	9.1
60°-70°	483.4	10.5
70°-80°	517.5	11.3
80°-90°	517.9	11.3
90°-100°	488.4	10.6
100°-110°	437.0	9.5
110°-120°	367.5	8.0
120°-130°	281.9	6.1
130°-140°	192.9	4.2
140°-150°	117.7	2.6
150°-160°	64.3	1.4
160°-170°	31.2	0.7
170°-180°	9.3	0.2
0°-90°	2599.5	56.6
0°-180°	4589.7	100.0



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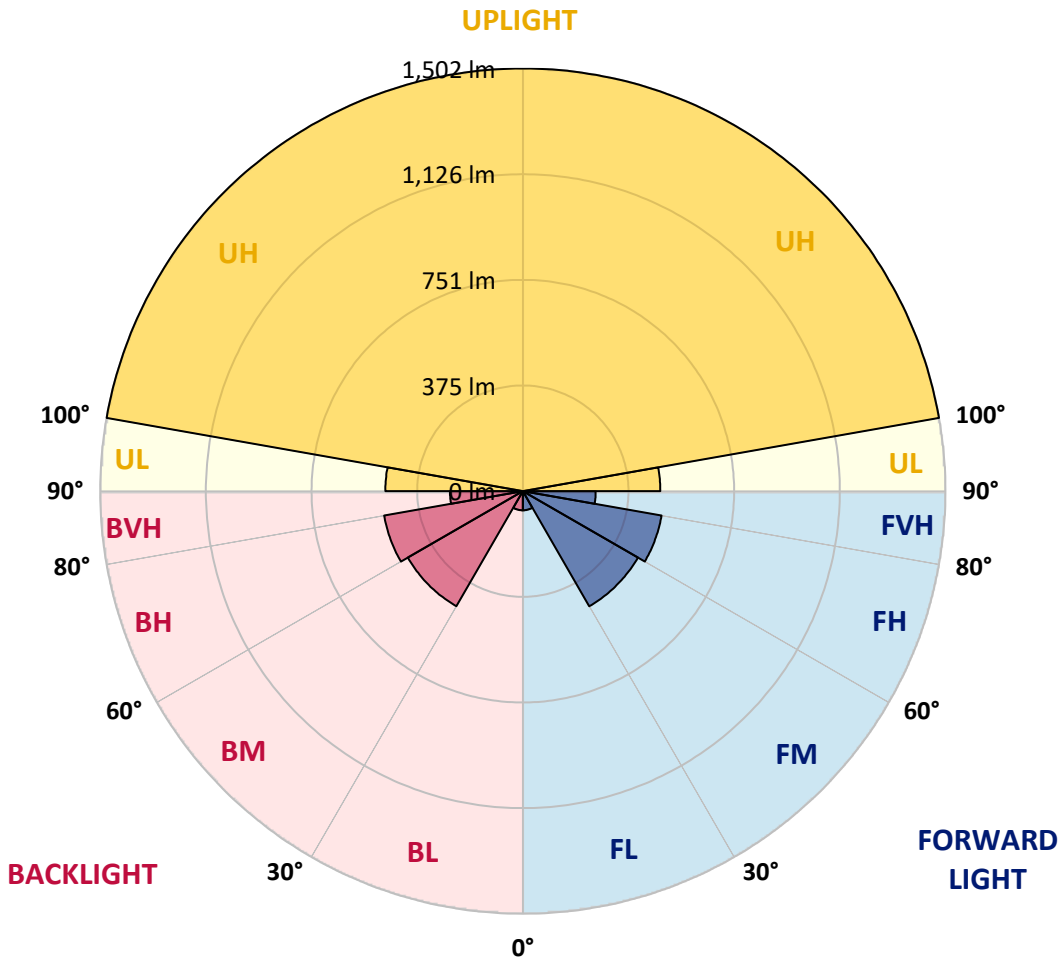
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	68.1	1.5			
FM	(30°-60°)	472.2	10.3			
FH	(60°-80°)	500.5	10.9			G0/660
FVH	(80°-90°)	259.0	5.6			G3/500
BL	(0°-30°)	68.1	1.5	B0/110		
BM	(30°-60°)	472.2	10.3	B1/1000		
BH	(60°-80°)	500.5	10.9	B2/1000		G0/660
BVH	(80°-90°)	259.0	5.6			G3/500
UL	(90°-100°)	488.4	10.6		U3/500	
UH	(100°-180°)	1501.7	32.7		U5	

BUG Rating: B2-U5-G3
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	*40.3*
2.5°	42.1	42.1	41.8	41.8	41.5	41.2	41.2	41.2	40.9	40.9	*40.6*
5°	47.9	47.7	47.7	47.4	47.7	47.4	47.4	47.4	47.4	46.8	*46.8*
7.5°	59.4	59.1	59.1	58.8	59.4	58.8	58.8	59.1	59.1	58.8	*58.8*
10°	74.4	74.1	74.1	73.5	74.1	73.8	73.8	73.2	73.5	73.2	*73.5*
12.5°	92.4	91.5	91.5	91.2	91.8	91.5	91.2	90.6	91.2	90.9	*90.9*
15°	110.9	111.2	110.9	110.6	111.2	111.2	110.9	110.3	110.9	110.3	*110.6*
17.5°	131.5	131.5	131.5	130.6	131.5	131.8	131.5	130.9	131.2	131.5	*131.5*
20°	153.8	153.8	154.1	153.5	155.0	154.1	153.8	153.5	153.8	154.1	*154.4*
22.5°	178.5	178.5	178.8	178.5	179.4	179.4	179.1	179.1	179.4	180.0	*180.0*
25°	205.9	206.2	206.2	205.3	207.4	208.0	207.4	207.4	208.0	208.8	*208.8*
27.5°	234.1	235.3	234.7	234.7	237.4	237.7	237.4	237.7	238.6	239.4	*239.7*
30°	263.3	264.1	265.3	264.4	267.4	267.7	268.0	268.3	269.4	270.9	*270.9*
32.5°	292.4	293.3	293.9	293.9	297.7	297.4	297.1	298.3	300.0	300.6	*301.5*
35°	321.5	321.5	322.1	322.4	326.2	325.9	326.5	327.4	329.2	330.3	*330.9*
37.5°	347.7	347.1	348.6	349.2	352.1	352.4	352.7	354.2	356.2	357.7	*358.3*
40°	371.5	370.9	372.7	373.6	376.2	376.2	376.8	378.6	380.9	382.4	*382.7*
42.5°	392.7	392.4	394.2	395.3	398.0	397.7	397.4	399.7	402.4	404.2	*404.7*
45°	410.9	410.6	413.0	414.5	416.5	415.9	415.9	418.0	420.9	423.0	*423.3*
47.5°	426.5	426.5	429.2	430.9	432.7	431.8	431.2	433.3	436.2	439.2	*439.5*
50°	440.3	440.0	443.0	445.0	446.5	445.3	444.5	446.5	449.8	452.7	*453.3*
52.5°	451.2	451.8	454.8	457.4	458.6	456.8	455.3	457.4	460.9	464.2	*464.8*
55°	460.6	460.9	464.2	467.4	468.0	465.6	463.9	465.6	469.5	473.0	*473.6*
57.5°	468.0	468.6	472.4	475.3	475.6	473.0	470.9	472.4	476.5	480.0	*480.9*
60°	474.5	475.0	478.6	481.8	482.1	478.9	476.2	477.4	481.8	485.9	*486.5*
62.5°	479.5	480.3	484.2	487.1	487.1	483.3	480.0	481.2	485.9	490.3	*490.9*
65°	483.6	484.5	488.3	491.2	490.9	486.5	483.0	484.2	489.2	493.6	*494.5*
67.5°	486.5	487.1	491.2	494.2	493.0	488.3	484.8	485.6	490.9	495.3	*496.2*
70°	*488.3*	*488.9*	*493.0*	*495.6*	*493.9*	*488.9*	*485.1*	*486.2*	*491.5*	*496.2*	*497.1*
72.5°	489.2	490.1	493.9	496.2	494.2	488.6	484.5	485.9	491.2	496.2	*496.8*
75°	488.9	489.5	493.3	495.3	492.7	487.4	483.0	484.5	490.1	494.5	*495.3*
77.5°	487.4	488.0	491.5	493.3	490.1	484.8	480.6	482.1	487.4	491.8	*492.7*
80°	485.1	485.6	488.9	490.1	486.8	481.5	477.7	479.2	484.2	488.3	*489.2*
82.5°	481.2	482.1	485.1	485.6	482.1	477.4	473.6	475.0	479.8	483.6	*484.2*
85°	476.5	477.1	479.8	480.0	476.5	472.4	469.2	470.6	474.8	477.7	*478.6*
87.5°	471.2	471.2	473.9	473.9	470.0	466.2	463.9	465.0	468.9	471.2	*472.1*
90°	464.8	465.0	466.8	466.5	463.0	459.8	457.7	459.2	462.4	464.5	*465.0*
92.5°	457.7	458.0	459.5	458.9	455.3	452.7	450.9	452.7	455.6	457.1	*457.7*
95°	450.0	450.3	451.5	450.3	447.1	445.0	443.6	445.6	448.0	449.5	*450.0*
97.5°	442.1	442.4	443.3	442.1	438.6	436.8	436.2	438.0	440.3	441.5	*442.1*
100°	433.9	433.9	434.5	432.7	429.8	428.3	428.0	430.0	432.4	433.6	*434.2*
102.5°	424.7	425.0	425.0	423.3	420.3	419.5	419.5	421.8	424.2	425.0	*425.6*
105°	415.3	415.3	415.3	413.9	410.6	410.0	410.3	412.7	415.3	416.5	*417.1*
107.5°	405.0	405.3	404.7	403.3	400.6	400.0	400.6	403.9	406.2	407.4	*408.0*
110°	394.2	394.5	394.2	392.4	390.0	389.7	390.6	393.9	396.2	397.4	*398.3*

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Scaled Data Report

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CATALOG NUMBER: FFX-CLB-30-727-U-VM8

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	382.7	383.0	382.7	381.2	378.9	378.9	380.0	383.3	385.9	386.8	*387.7*
115°	370.6	370.9	370.3	369.2	366.8	367.4	368.6	371.8	374.5	375.3	*376.5*
117.5°	357.7	358.0	357.7	356.2	354.2	354.7	356.5	359.7	362.1	363.0	*364.2*
120°	343.6	343.6	343.6	342.1	340.0	341.2	343.0	346.5	348.6	349.2	*350.3*
122.5°	329.2	328.6	328.6	327.7	325.3	326.8	328.6	332.1	334.2	334.4	*335.3*
125°	313.3	313.6	312.7	312.1	310.0	311.8	313.3	316.8	318.6	318.9	*319.7*
127.5°	296.2	297.1	296.2	295.3	293.9	295.6	297.4	300.6	302.1	302.4	*303.0*
130°	280.3	280.3	279.4	278.9	277.4	279.1	280.9	283.9	285.3	285.3	*285.9*
132.5°	264.4	263.6	263.3	262.7	260.9	263.0	264.1	267.1	268.3	268.0	*268.6*
135°	247.1	247.1	246.2	245.9	244.4	246.5	247.7	250.3	251.2	250.9	*251.5*
137.5°	230.9	230.9	230.3	229.7	228.8	230.6	231.8	233.8	234.7	233.8	*234.7*
140°	215.0	215.0	214.7	214.1	213.3	215.0	215.9	217.7	218.6	217.7	*218.3*
142.5°	200.3	199.7	199.4	199.1	198.0	199.7	200.3	202.1	202.4	201.8	*202.7*
145°	184.7	185.0	184.7	184.4	183.5	185.0	185.6	187.1	187.4	186.8	*187.7*
147.5°	171.8	170.9	171.2	170.9	170.0	171.5	171.8	172.7	173.3	172.7	*173.3*
150°	158.8	158.3	158.3	158.0	157.4	158.5	158.8	159.7	160.0	159.4	*160.0*
152.5°	147.4	147.1	147.1	146.8	146.2	147.1	147.4	148.0	148.3	147.7	*148.0*
155°	137.1	136.8	136.8	136.5	135.9	136.8	136.8	137.4	137.7	137.4	*137.7*
157.5°	128.0	127.7	127.7	127.7	127.1	127.7	127.7	128.2	128.2	128.0	*128.2*
160°	120.6	120.0	120.3	120.0	119.4	120.0	120.0	120.3	120.3	120.3	*120.3*
162.5°	113.8	113.8	113.8	113.5	113.2	113.5	113.5	113.8	113.8	113.8	*113.5*
165°	108.5	108.5	108.5	108.2	108.0	108.2	108.2	108.2	108.2	108.2	*108.2*
167.5°	104.1	103.8	104.1	103.8	103.5	103.8	103.8	103.8	103.8	103.8	*103.8*
170°	100.3	100.3	100.3	100.3	100.0	100.3	100.3	100.3	100.3	100.3	*100.3*
172.5°	98.0	97.7	97.7	97.7	97.4	97.7	97.4	97.7	97.4	97.7	*97.4*
175°	95.9	95.9	95.9	95.9	95.6	95.6	95.6	95.6	95.6	95.6	*95.6*
177.5°	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	*94.7*
180°	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	*94.4*

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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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.03

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

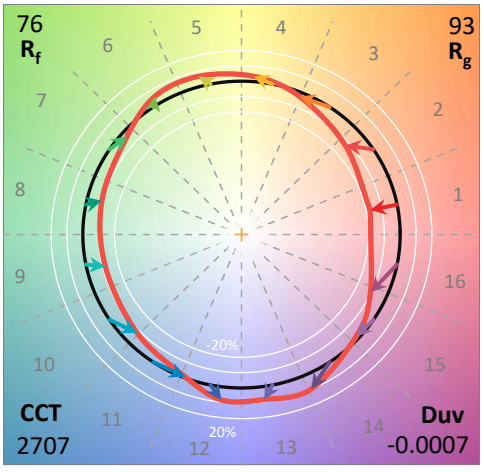
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2406-133-3
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
R2:	84.5
R3:	94.2
R4:	64.8
R5:	66.9
R6:	79.2
R7:	74.4
R8:	38.8
R9:	-34.9
R10:	65.1
R11:	59.2
R12:	54.2
R13:	71.2
R14:	97.5
R15:	59.4



Test Conditions

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

Cooper Lighting Solutions Photometric Lab
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REPORT NUMBER: SP1-2406-133-3

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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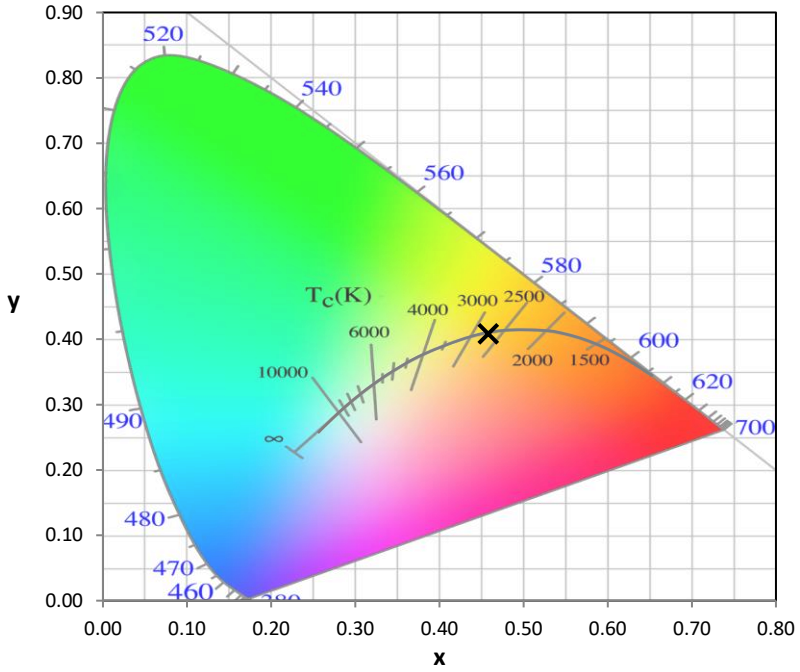
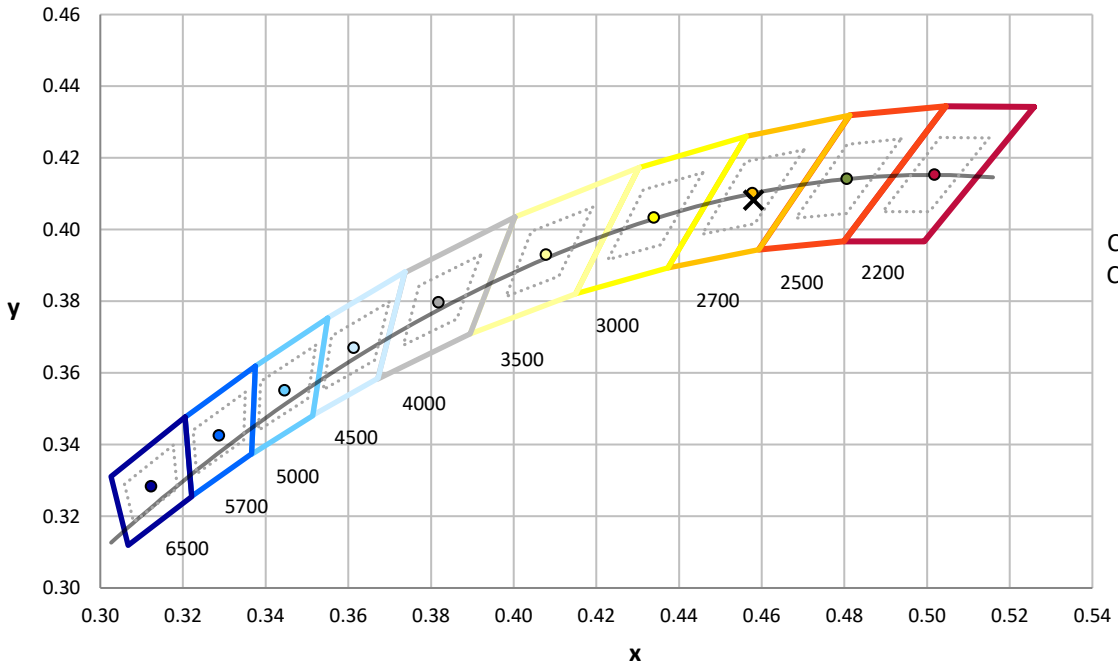
CIE 1931 Chromaticity Diagram



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



CCT = 2707K
CIE x = 0.4580
CIE y = 0.4082
Duv = -0.0007

Point lies inside the ANSI 2700K 4-step quadrangle

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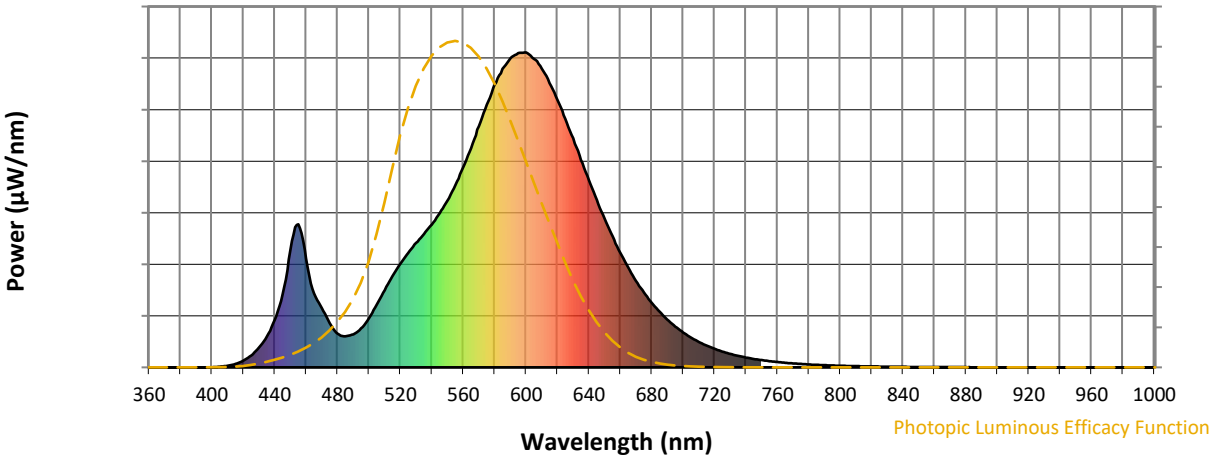
REPORT NUMBER: SP1-2406-133-3

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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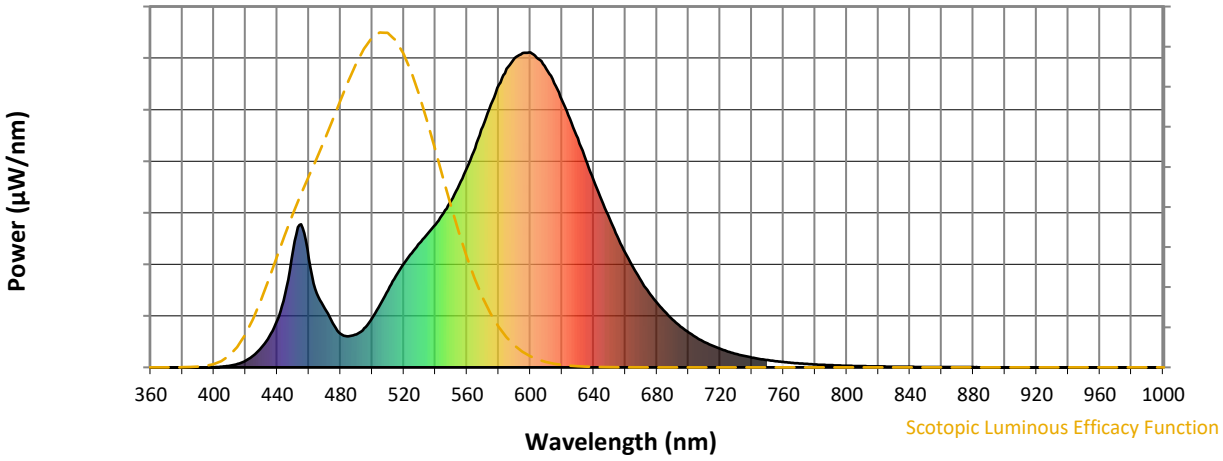
Scotopic Flux vs. Wavelength



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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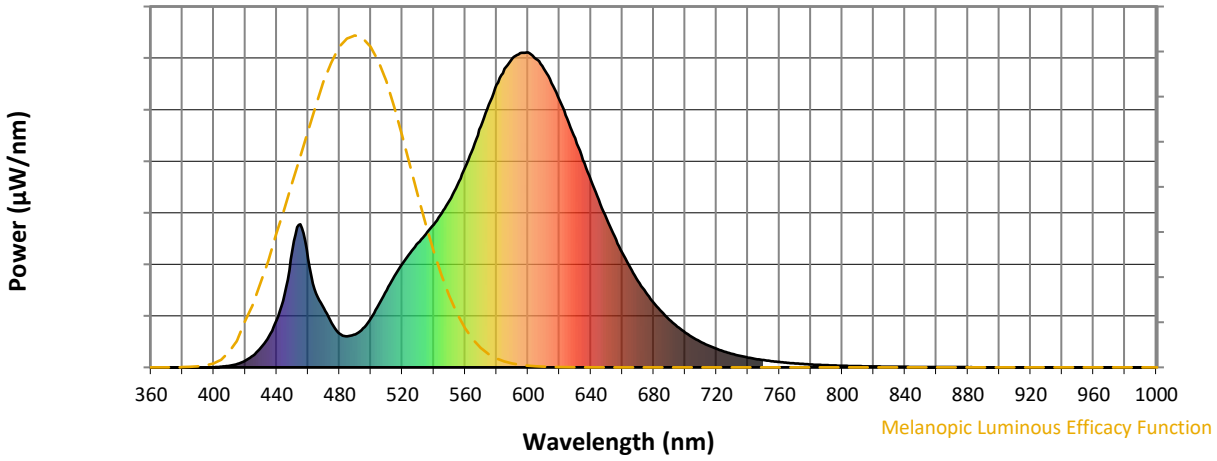
Melanopic Flux vs. Wavelength



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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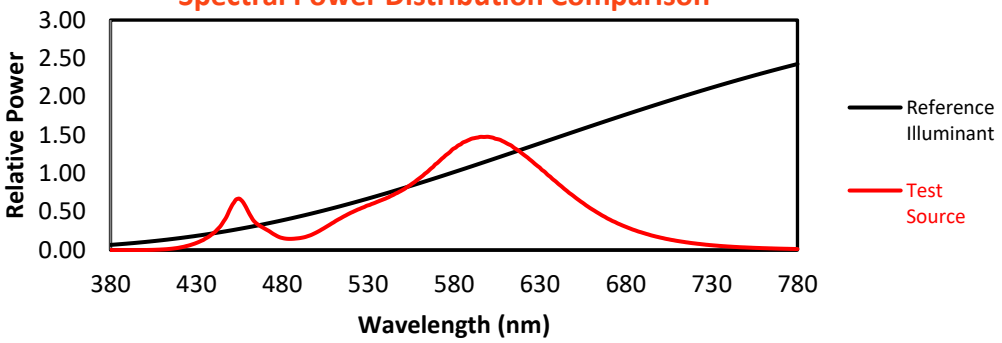
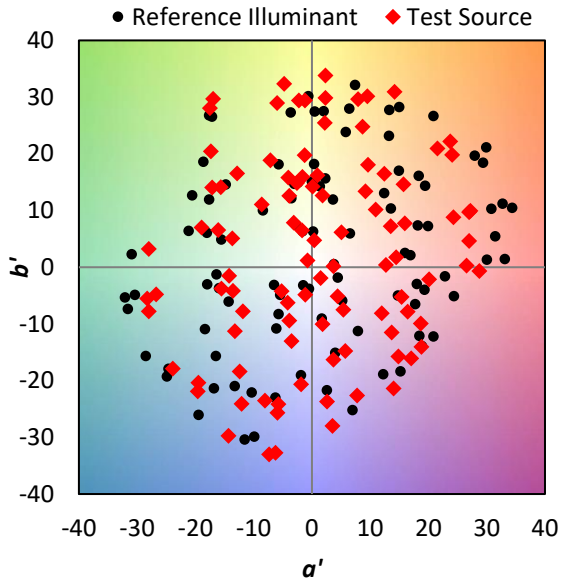
Summary

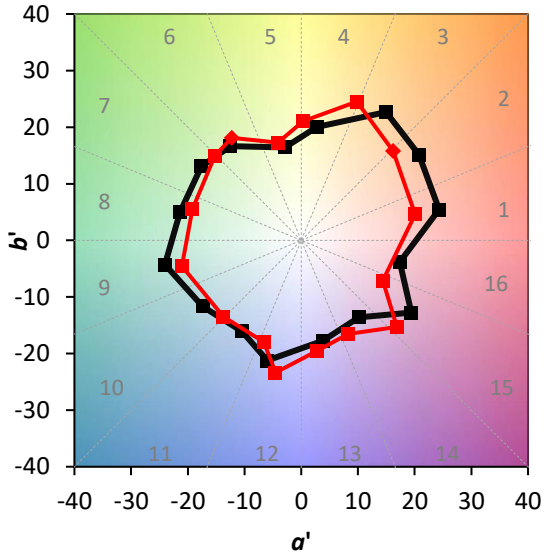
R_f = 75.5
R_g = 92.5
CIE R_a = 71.3
R_9 = -34.9

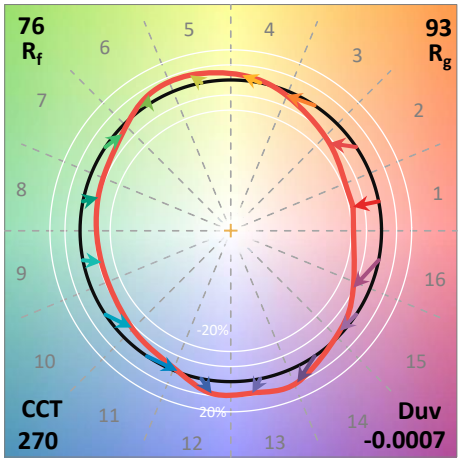
Spectral Power Distribution Comparison

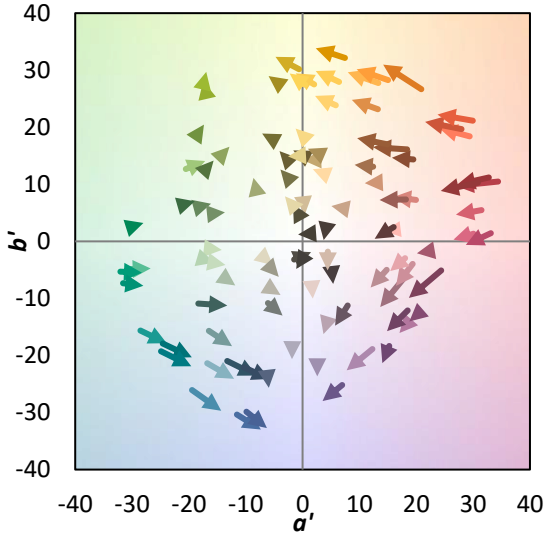


Color Vector Graphics









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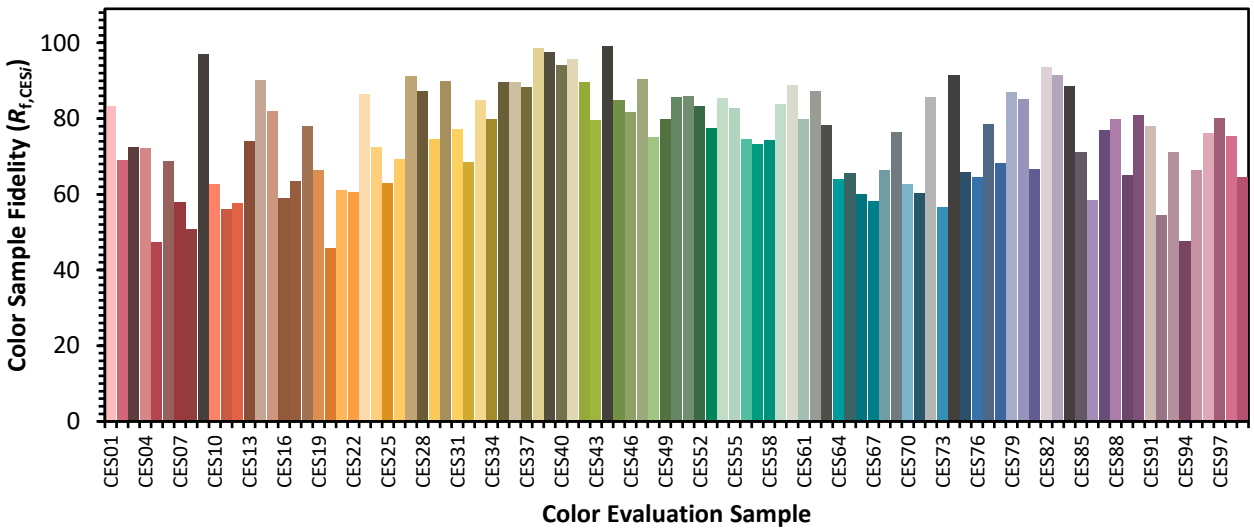
Individual Sample Fidelity Index ($R_{f,i}$)

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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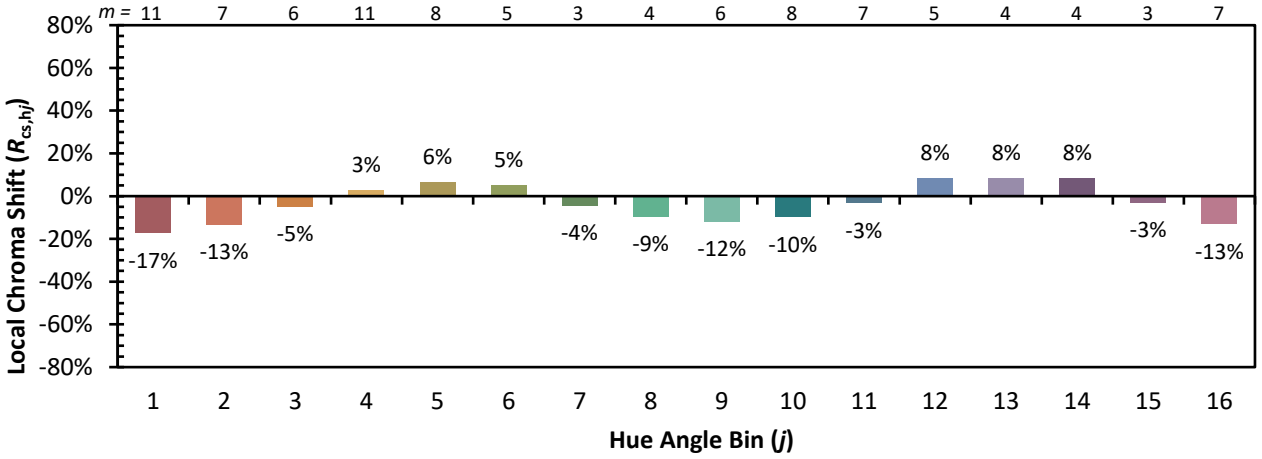
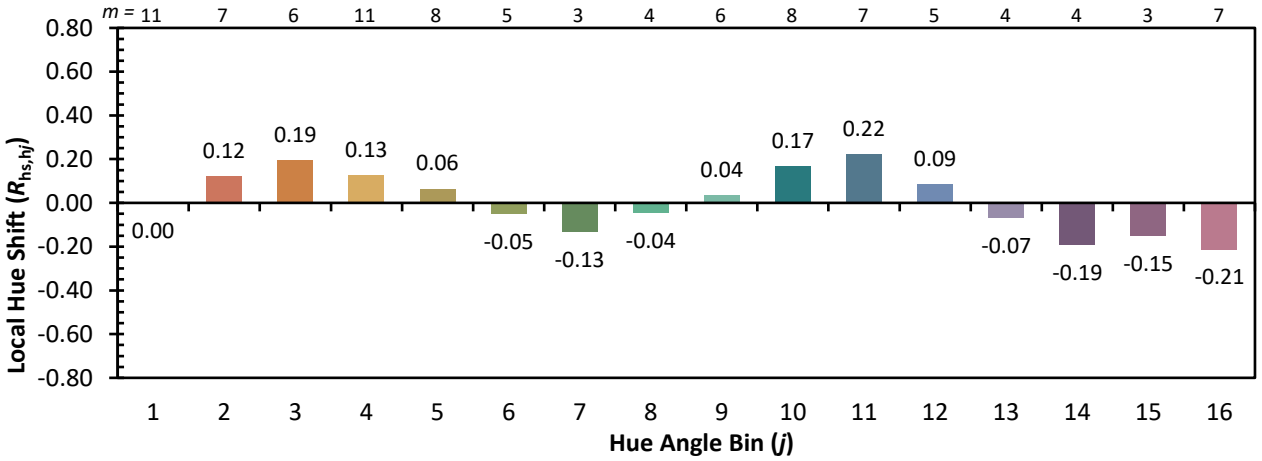
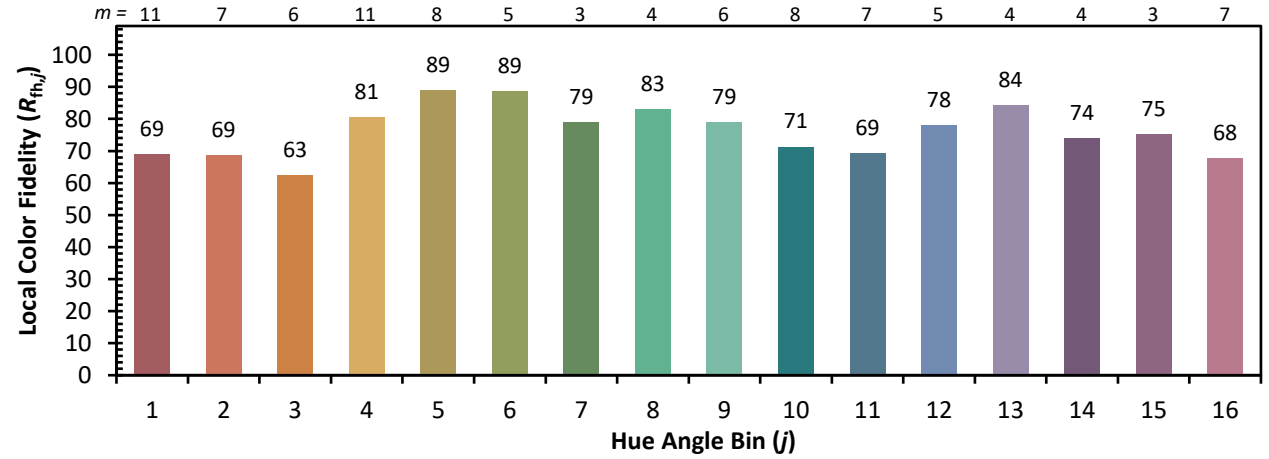
Color Rendition by Hue-Angle Bin







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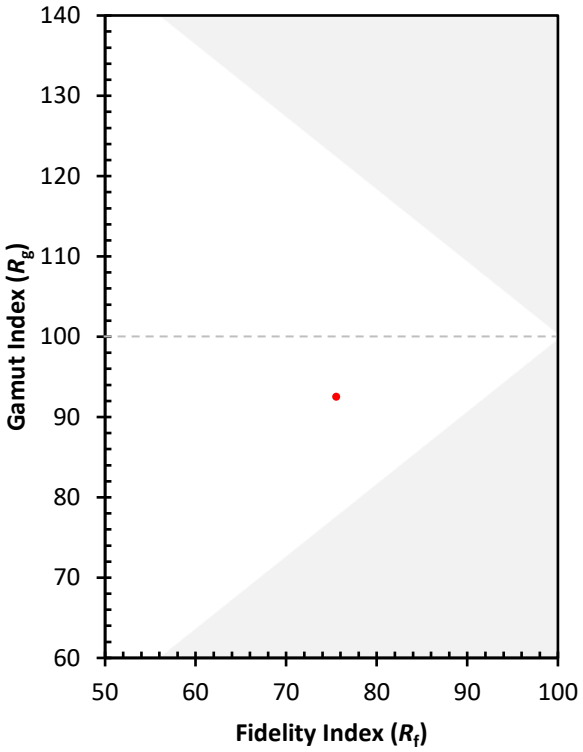
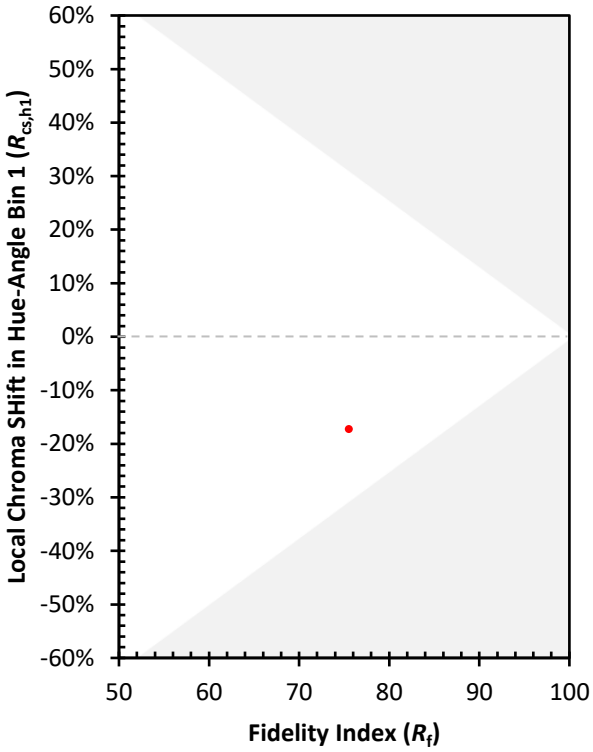
Measure Comparisons





(END OF REPORT)