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: P856073

Luminaire Tested: **FFX-CLB-20-727-U-FR-T5**

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:	P856073
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/16/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-727-U-FR-T5
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3004 lumens
Efficiency:	N/A
Efficacy:	154.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type V - Short
BUG Rating:	B2 - U3 - G1

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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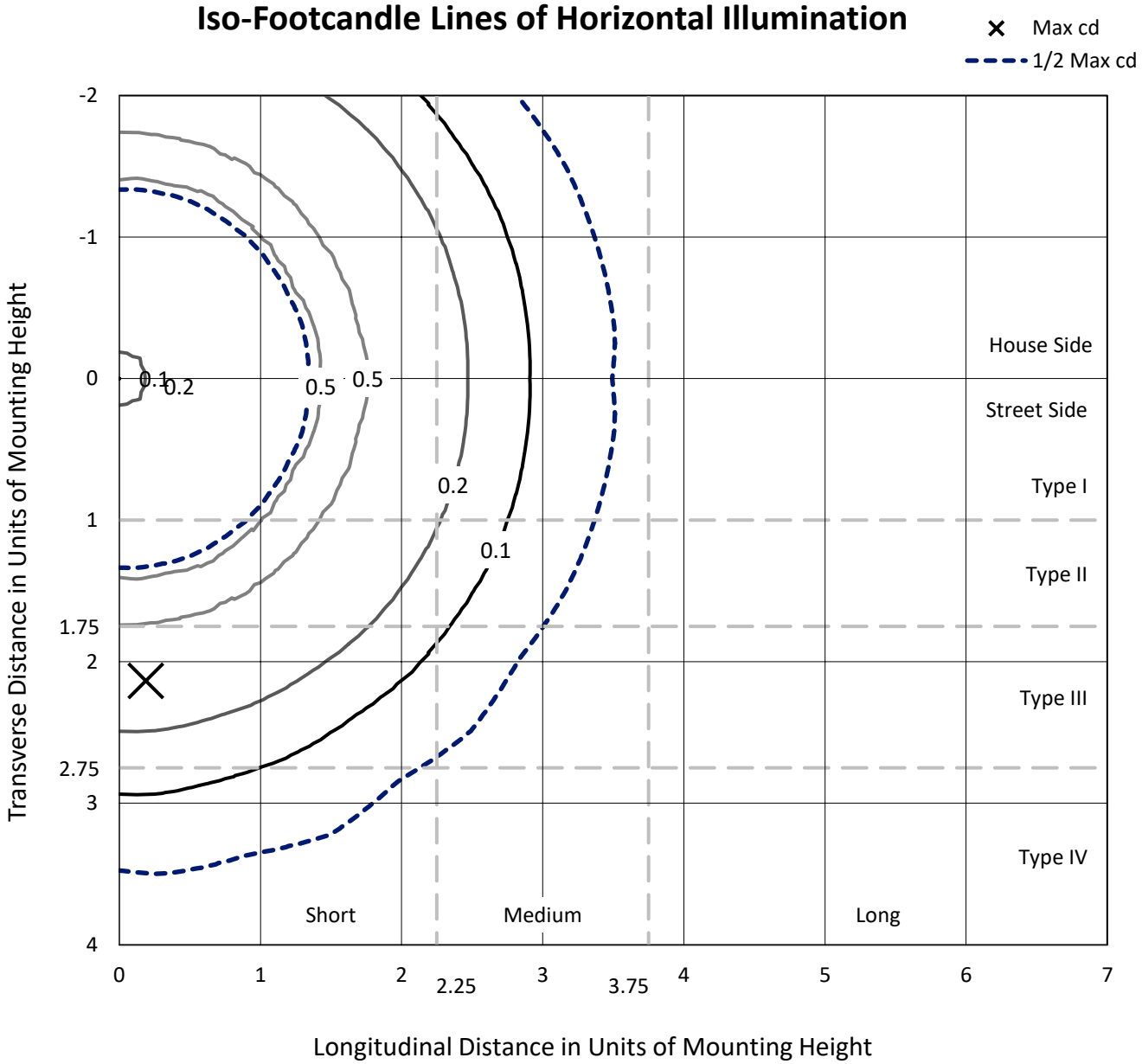
Scaled Data Report

REPORT NUMBER: P856073
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T5

Iso-Footcandle Lines of Horizontal Illumination



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

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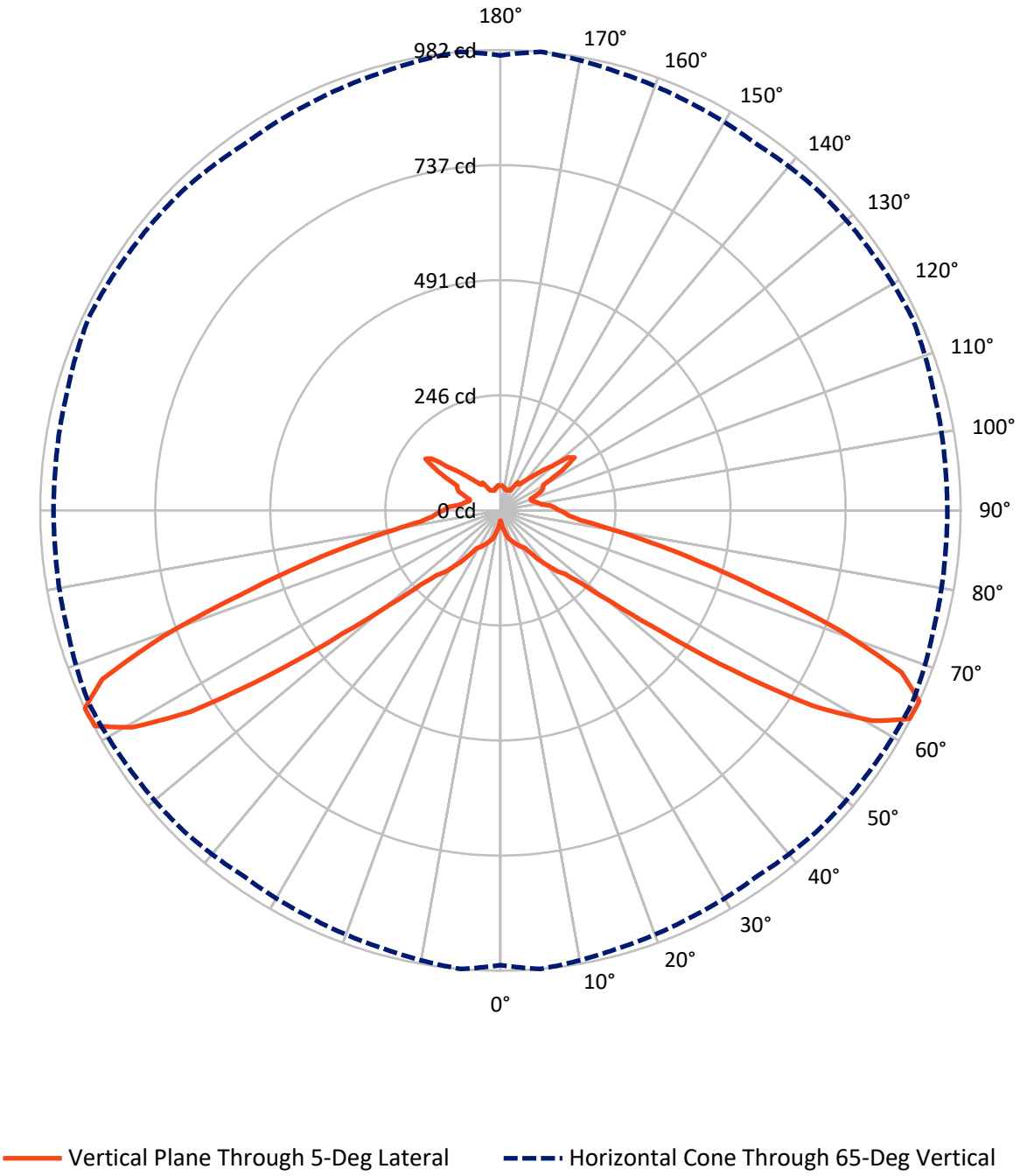
Luminous Intensity Polar Plot



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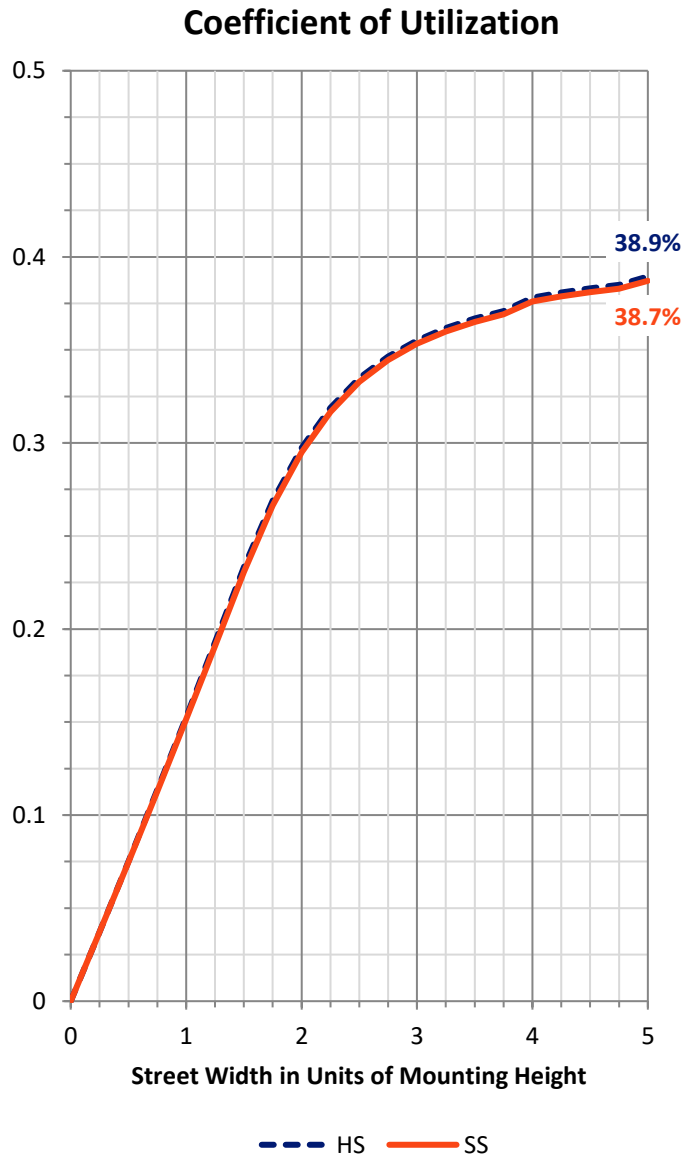
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.5	291.5	1502.0
	% Fixture	40.3	9.7	50.0
Street Side	Lumens	1210.5	291.5	1502.0
	% Fixture	40.3	9.7	50.0
Total	Lumens	2420.9	583.0	3004.0
	% Fixture	80.6	19.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	17.2	0.6
20°-30°	37.3	1.2
30°-40°	74.0	2.5
40°-50°	160.4	5.3
50°-60°	552.5	18.4
60°-70°	907.4	30.2
70°-80°	487.0	16.2
80°-90°	181.9	6.1
90°-100°	114.9	3.8
100°-110°	76.9	2.6
110°-120°	84.6	2.8
120°-130°	139.9	4.7
130°-140°	82.4	2.7
140°-150°	43.6	1.5
150°-160°	22.9	0.8
160°-170°	13.0	0.4
170°-180°	4.9	0.2
0°-90°	2420.9	80.6
0°-180°	3004.0	100.0



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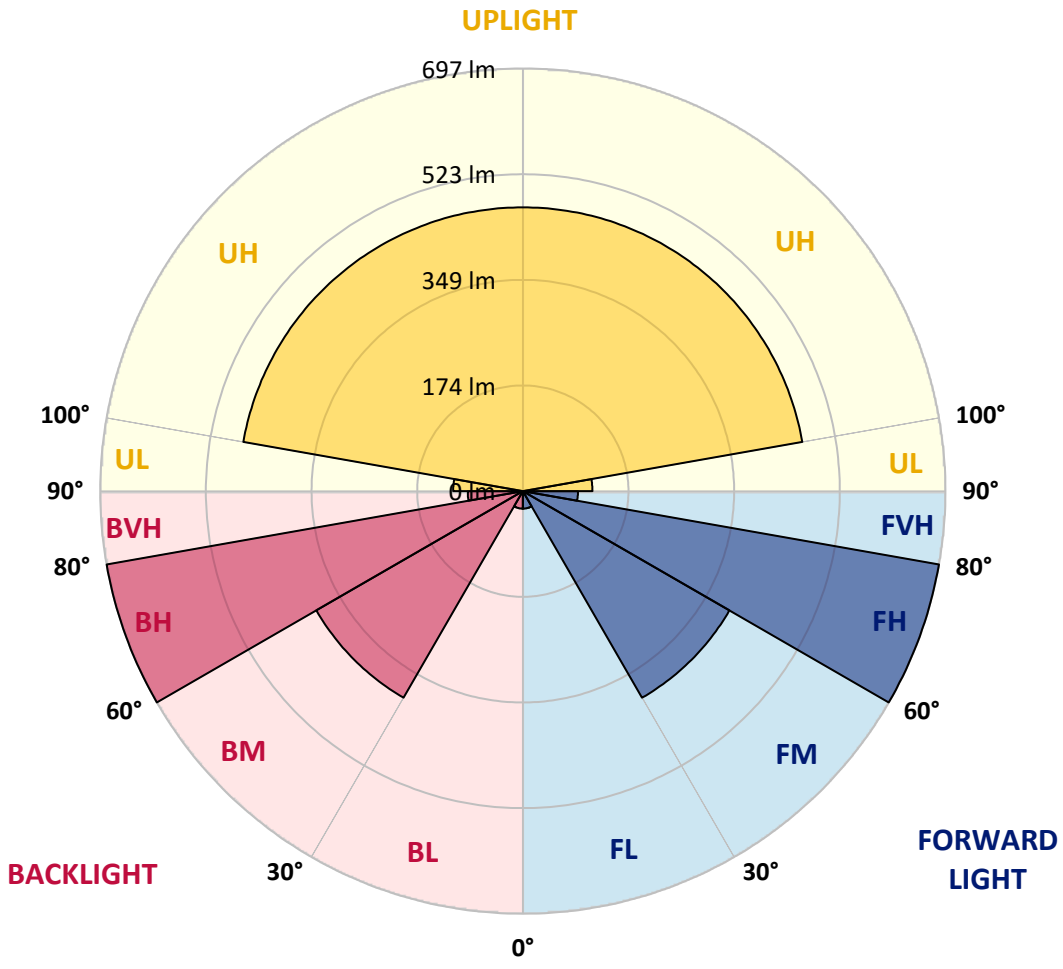
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	28.9	1.0			
FM	(30°-60°)	393.4	13.1			
FH	(60°-80°)	697.2	23.2			G1/1800
FVH	(80°-90°)	90.9	3.0			G1/100
BL	(0°-30°)	28.9	1.0	B0/110		
BM	(30°-60°)	393.4	13.1	B1/1000		
BH	(60°-80°)	697.2	23.2	B2/1000		G1/1800
BVH	(80°-90°)	90.9	3.0			G1/100
UL	(90°-100°)	114.9	3.8		U3/500	
UH	(100°-180°)	468.2	15.6		U3/500	

BUG Rating: B2-U3-G1
Type V Short



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REPORT NUMBER: P856073
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
2.5°	23.6	23.6	23.3	23.0	23.3	23.6	23.6	23.9	23.3	23.3	23.6
5°	31.5	31.5	31.5	31.2	30.6	30.6	30.3	31.2	31.5	31.8	31.8
7.5°	39.2	38.9	39.5	39.8	38.3	37.7	37.7	38.0	38.6	39.2	39.8
10°	44.4	44.1	44.4	45.6	45.3	44.4	44.4	44.4	45.3	46.8	47.2
12.5°	52.4	52.4	53.0	53.9	54.2	53.3	52.7	52.7	53.9	54.2	53.9
15°	60.9	60.9	60.6	60.3	60.6	60.3	60.3	60.6	61.5	61.2	61.2
17.5°	65.5	65.2	64.9	65.2	65.2	64.9	65.2	65.8	65.5	66.4	66.7
20°	70.4	70.4	69.8	69.8	69.8	70.1	70.4	70.1	70.4	70.7	71.0
22.5°	75.0	75.0	74.7	74.4	74.7	75.0	75.3	74.7	74.7	75.3	75.3
25°	80.2	80.2	80.2	79.3	79.6	79.9	79.6	79.3	79.6	79.9	80.2
27.5°	86.0	86.0	85.4	84.5	84.8	84.8	85.1	84.5	85.1	85.1	85.1
30°	90.9	90.3	90.0	89.4	89.4	90.0	90.6	89.7	90.0	90.0	90.3
32.5°	95.5	95.5	95.2	94.0	93.7	95.5	96.1	95.8	94.6	94.9	95.2
35°	112.7	112.7	110.5	108.4	110.2	109.9	112.4	112.4	112.4	113.0	114.2
37.5°	134.1	135.0	138.4	143.3	143.3	136.3	132.6	132.3	137.2	141.5	141.2
40°	153.1	154.0	153.1	153.7	153.1	153.4	153.7	153.1	150.3	149.4	147.6
42.5°	176.7	177.0	171.2	164.4	165.0	168.4	172.4	172.7	166.9	164.1	163.5
45°	193.2	193.8	191.7	190.8	190.8	192.0	191.7	191.7	189.5	189.2	188.6
47.5°	233.6	232.4	228.1	226.6	228.4	227.5	233.3	231.8	229.3	229.3	231.5
50°	309.9	308.6	308.9	307.4	312.3	305.3	312.3	310.5	306.8	308.6	310.2
52.5°	434.5	426.8	427.7	424.7	433.3	426.8	438.5	436.9	425.0	430.2	430.5
55°	613.9	604.1	603.5	583.0	598.9	601.0	615.7	619.4	596.1	596.4	598.0
57.5°	791.8	788.7	798.5	785.7	797.0	791.8	791.5	798.2	784.8	786.6	791.5
60°	909.7	912.1	923.1	926.5	930.5	923.1	908.1	911.2	910.3	925.9	927.1
62.5°	972.8	980.1	972.1	969.7	966.3	969.1	967.2	969.1	963.6	970.9	971.2
65°	970.6	982.2	967.9	959.0	953.5	962.0	964.5	970.0	958.4	953.8	953.8
67.5°	909.1	923.1	900.5	899.6	886.1	900.5	896.5	900.8	891.6	885.2	879.1
70°	756.3	769.1	741.9	745.3	722.0	745.6	739.4	747.4	740.0	727.5	720.1
72.5°	569.8	581.1	560.9	566.1	550.8	568.6	559.1	572.6	568.0	562.5	556.3
75°	431.1	440.0	441.2	458.7	440.3	448.9	431.7	439.7	447.3	453.8	447.0
77.5°	317.2	323.3	341.7	361.0	342.9	349.1	331.9	339.6	346.6	357.6	352.7
80°	224.1	231.2	248.0	262.4	249.2	254.7	243.7	248.0	253.5	261.5	256.3
82.5°	174.5	172.1	171.5	167.8	163.8	177.6	180.3	182.8	177.6	175.4	173.0
85°	146.4	147.0	150.6	155.2	155.2	155.5	152.8	154.0	156.2	160.1	160.4
87.5°	134.4	136.3	146.7	150.3	148.8	149.4	147.0	147.6	149.1	151.3	150.6
90°	118.5	123.1	132.9	136.6	134.1	135.3	134.1	135.0	133.8	134.4	133.2
92.5°	115.7	115.4	118.5	118.2	116.7	120.3	120.3	120.9	119.4	118.5	117.9
95°	107.2	106.6	106.2	107.2	103.8	106.6	105.9	107.2	106.6	106.6	105.3
97.5°	89.7	89.7	89.1	90.0	87.9	89.1	87.6	88.5	88.2	88.5	87.6
100°	82.7	82.7	82.1	82.1	81.1	81.4	80.8	80.8	80.5	80.2	80.2
102.5°	77.8	78.4	77.5	77.8	76.5	76.5	75.9	76.2	75.9	75.9	75.6
105°	73.2	73.5	72.9	72.9	72.0	71.6	71.0	71.3	71.6	71.0	71.0
107.5°	68.6	68.9	68.6	68.6	67.7	67.1	66.1	66.1	66.4	66.7	66.7
110°	70.4	69.5	68.6	68.0	69.2	67.4	66.7	66.4	66.7	67.7	68.0

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Scaled Data Report

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	84.2	*83.6*	83.6	80.8	83.9	82.1	80.8	78.7	79.6	80.2	80.2
115°	97.7	*98.0*	94.3	93.1	91.2	90.9	91.9	89.4	89.1	89.4	88.8
117.5°	109.6	*103.2*	89.4	85.7	84.8	84.2	83.6	83.0	82.4	86.0	82.1
120°	117.3	*106.2*	96.1	94.0	99.2	91.9	87.0	86.0	87.9	94.3	93.4
122.5°	166.3	*156.8*	149.4	136.6	149.4	142.1	143.9	140.5	138.7	135.0	135.6
125°	194.4	*194.1*	190.8	188.3	191.4	188.6	185.5	184.3	182.5	183.4	181.9
127.5°	180.6	*183.4*	179.1	184.0	173.0	176.1	175.4	177.6	175.8	176.4	173.9
130°	143.0	*145.1*	141.2	138.7	133.8	139.3	139.6	143.0	139.3	134.4	133.8
132.5°	124.9	*126.5*	120.3	117.3	113.9	118.8	120.9	122.8	120.3	115.1	113.9
135°	106.2	*106.9*	102.6	103.2	101.0	101.0	100.7	101.7	102.9	102.0	101.3
137.5°	91.2	*92.8*	91.2	93.1	91.2	89.7	87.3	88.2	90.9	93.1	92.8
140°	79.0	*80.5*	80.8	82.7	79.0	79.6	78.1	78.7	80.2	82.4	83.3
142.5°	70.1	*71.3*	68.6	67.1	65.8	69.5	72.3	72.6	70.7	68.3	69.2
145°	68.3	*67.1*	68.3	67.1	68.3	67.7	68.0	67.7	67.7	67.7	67.7
147.5°	69.2	*70.4*	70.4	70.4	68.6	68.9	69.2	69.5	69.5	70.7	70.4
150°	57.6	*59.1*	58.8	60.3	57.6	58.2	58.5	59.1	59.4	59.7	60.0
152.5°	48.7	*49.0*	49.9	50.5	50.2	49.9	49.6	49.6	50.2	50.8	51.1
155°	47.5	*47.5*	48.4	49.3	48.4	48.4	48.1	48.1	48.4	49.3	49.3
157.5°	45.6	*45.9*	45.9	46.5	45.9	46.2	45.9	45.9	46.2	46.5	46.8
160°	44.7	*45.0*	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.3	45.3
162.5°	44.7	*44.7*	44.7	44.4	44.4	44.7	44.7	44.7	44.7	44.4	44.7
165°	45.6	*45.3*	45.0	44.7	45.0	45.6	45.9	45.9	45.6	45.0	45.3
167.5°	47.5	*47.5*	47.2	46.8	47.2	47.5	47.8	47.8	47.5	47.2	47.2
170°	49.3	*49.0*	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
172.5°	50.5	*50.5*	50.8	50.5	50.8	50.8	50.5	50.5	50.5	50.5	50.8
175°	52.4	*52.4*	52.4	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7
177.5°	53.6	*53.6*	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
180°	53.9	*53.9*	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9

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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: SP1-2406-133-3

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

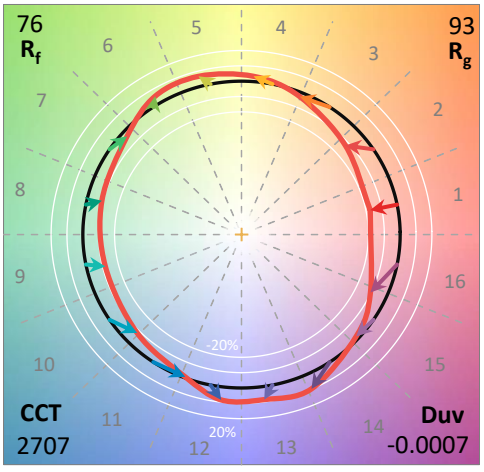
Test Information

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	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



Test Conditions

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

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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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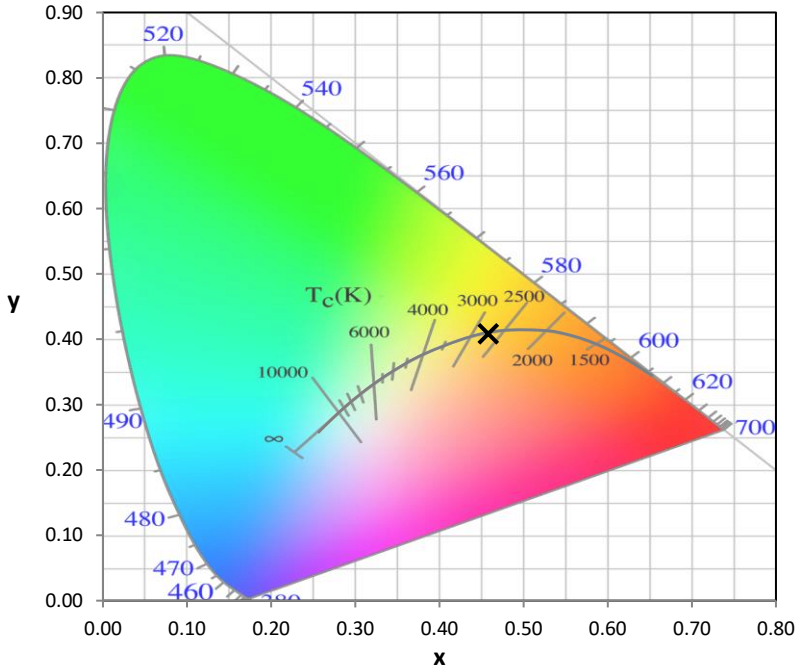
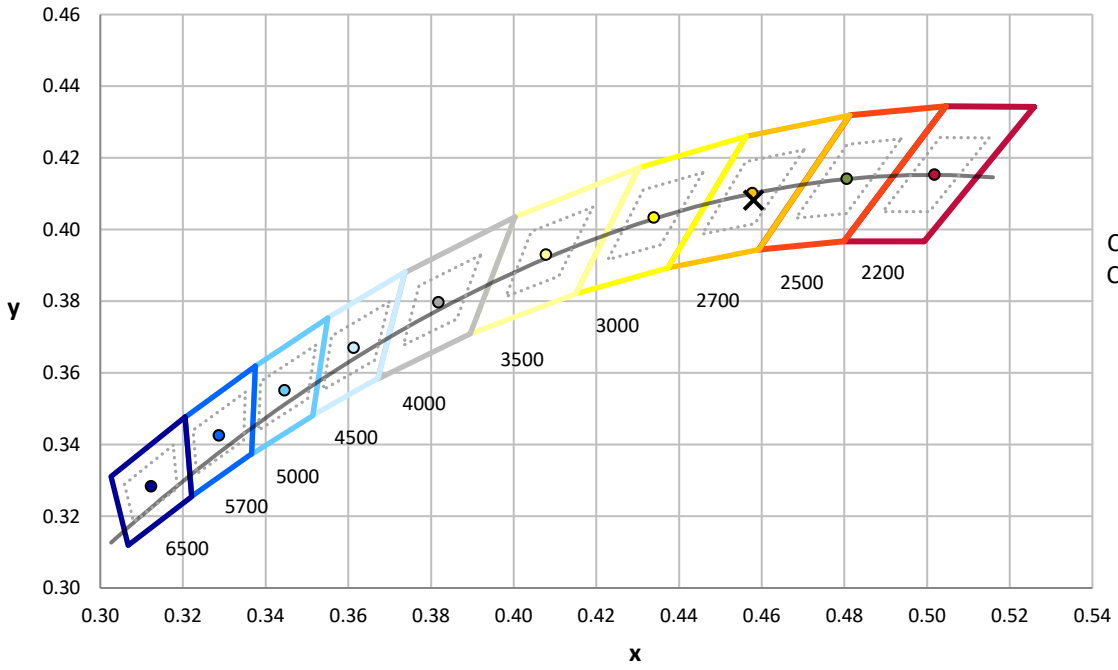
CIE 1931 Chromaticity Diagram



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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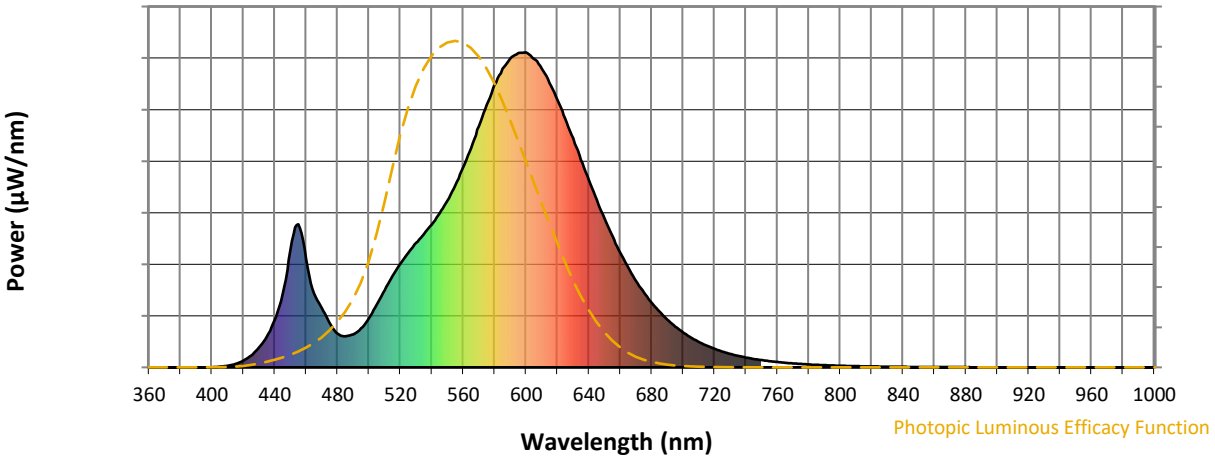
Photopic Flux vs. Wavelength



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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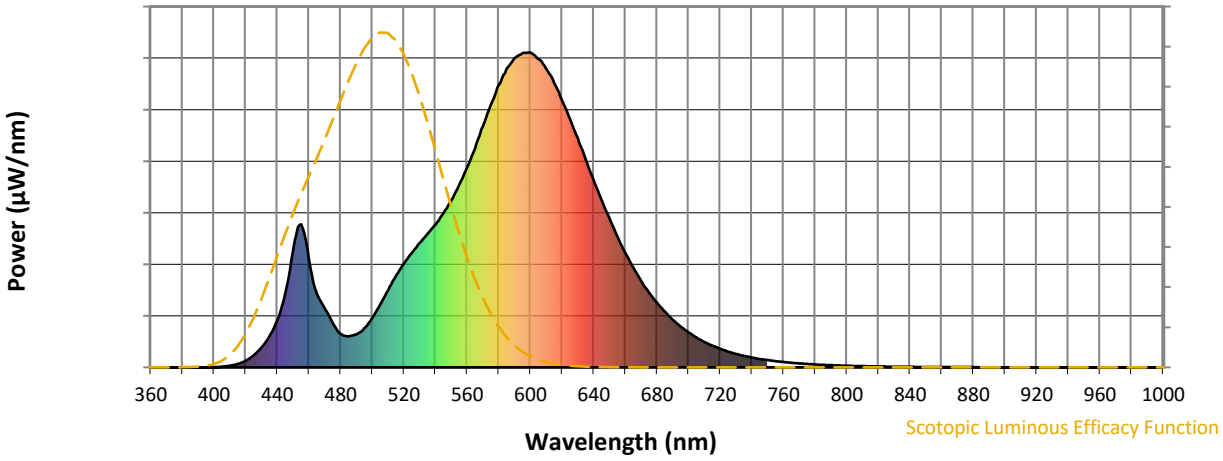
Scotopic Flux vs. Wavelength



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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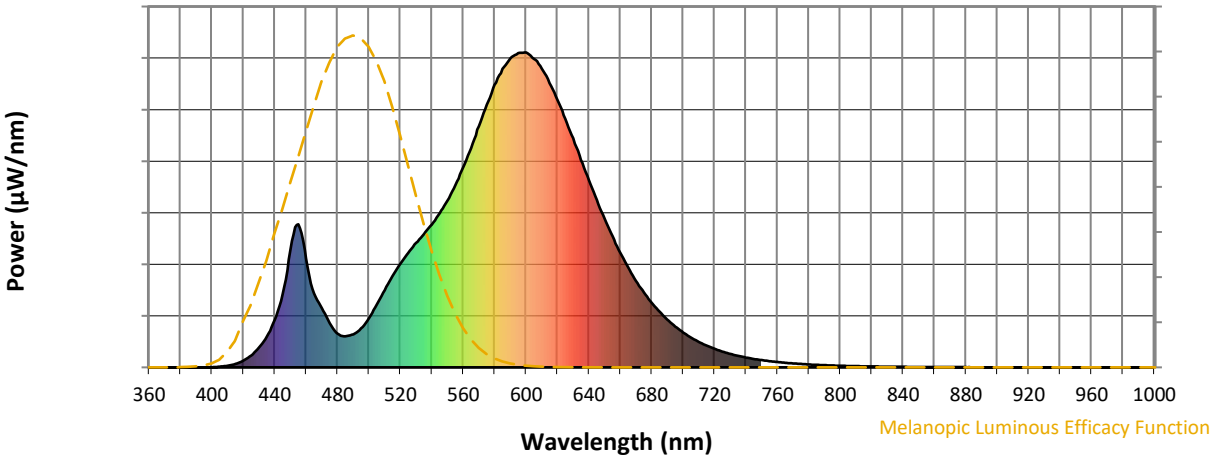
Melanopic Flux vs. Wavelength



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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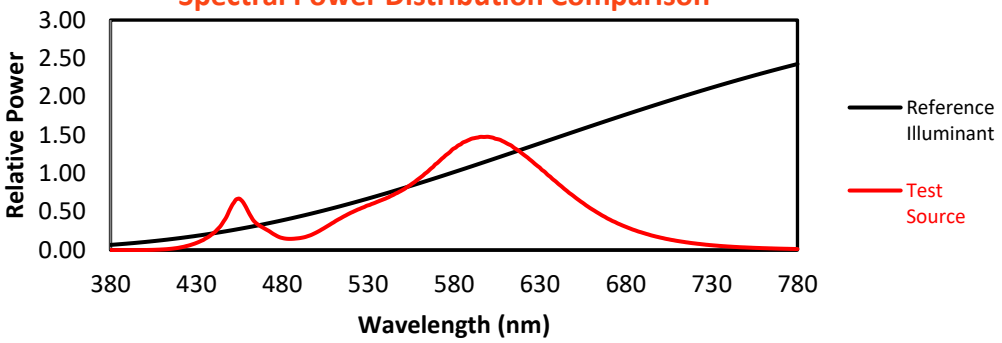
TM-30-18

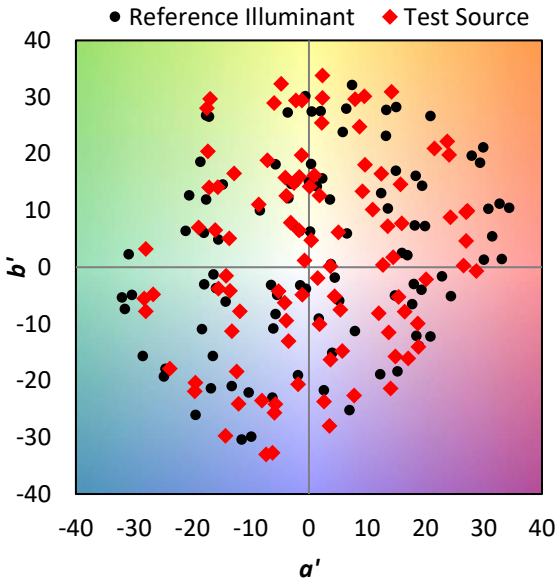
Summary

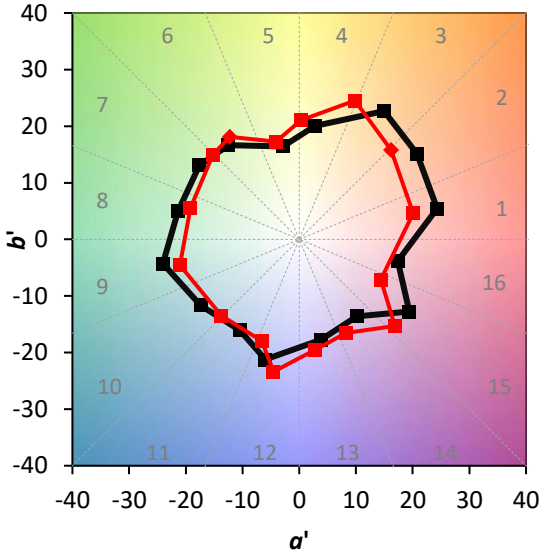
R_f = 75.5
R_g = 92.5
CIE R_a = 71.3
R_9 = -34.9

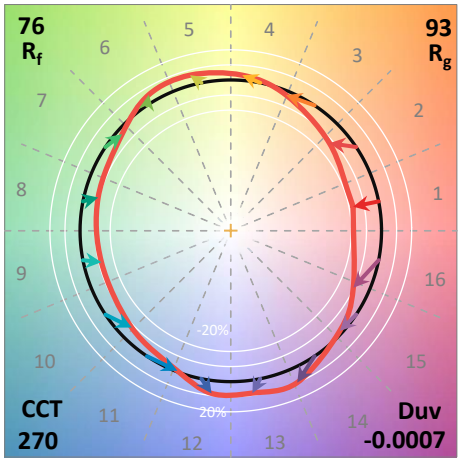
Spectral Power Distribution Comparison

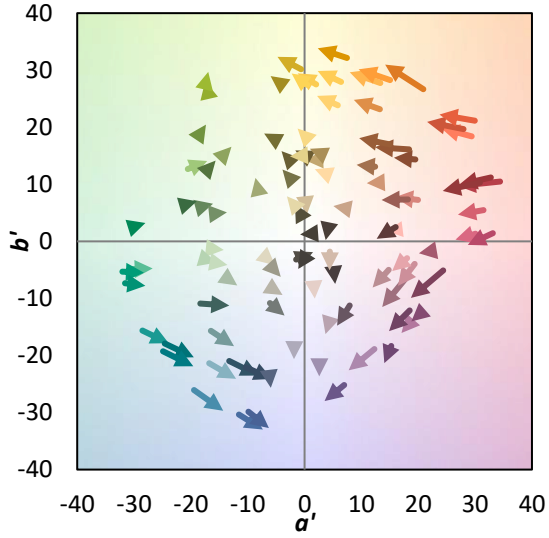


Color Vector Graphics









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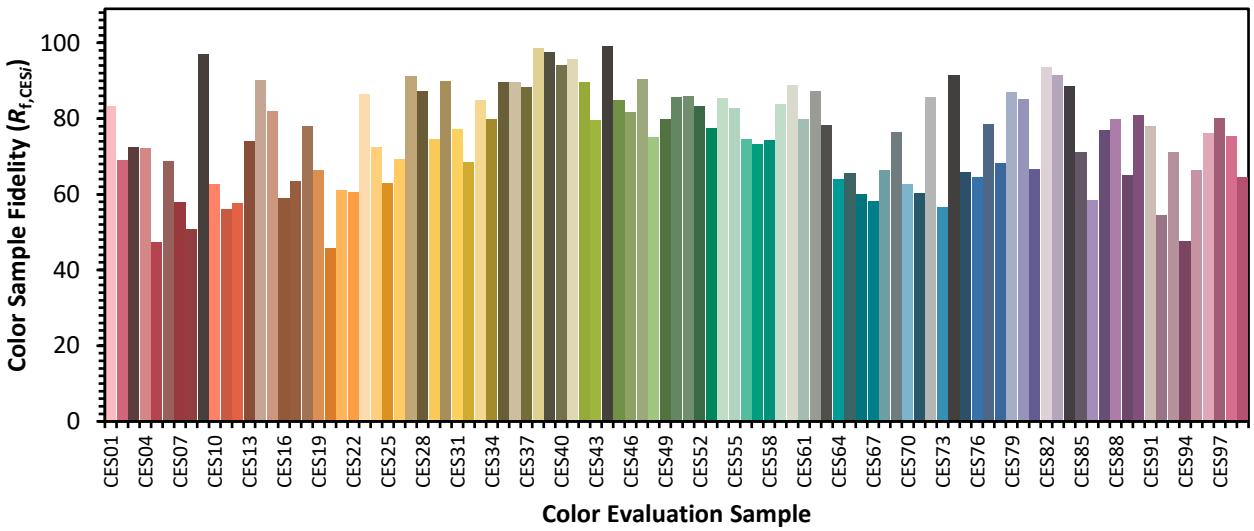
Individual Sample Fidelity Index ($R_{f,i}$)

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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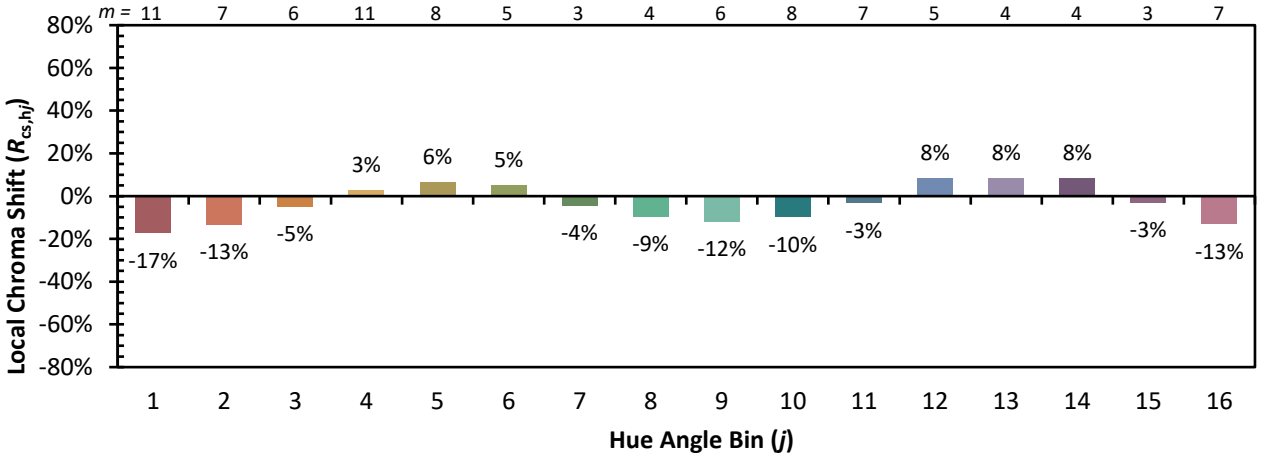
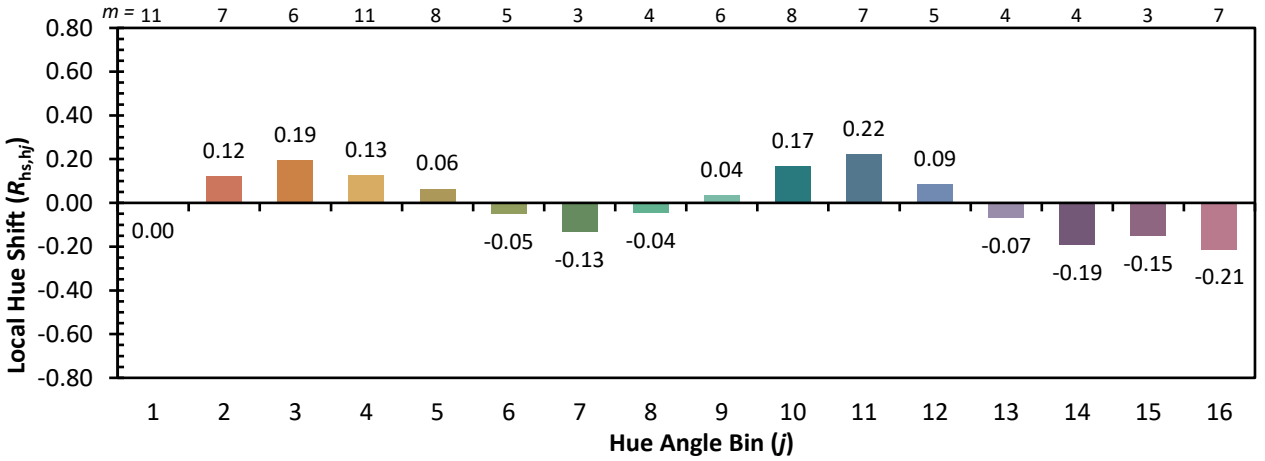
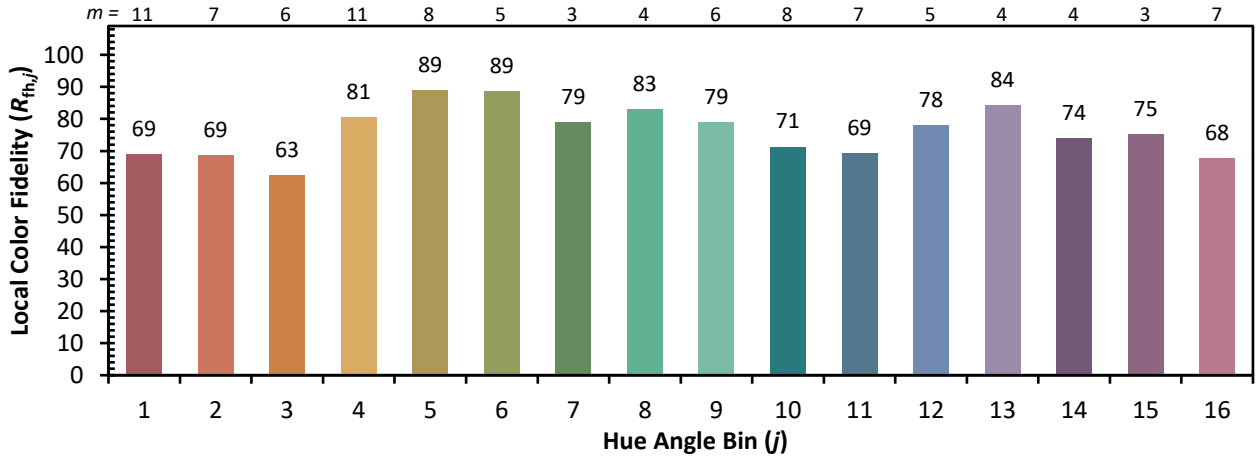
Color Rendition by Hue-Angle Bin







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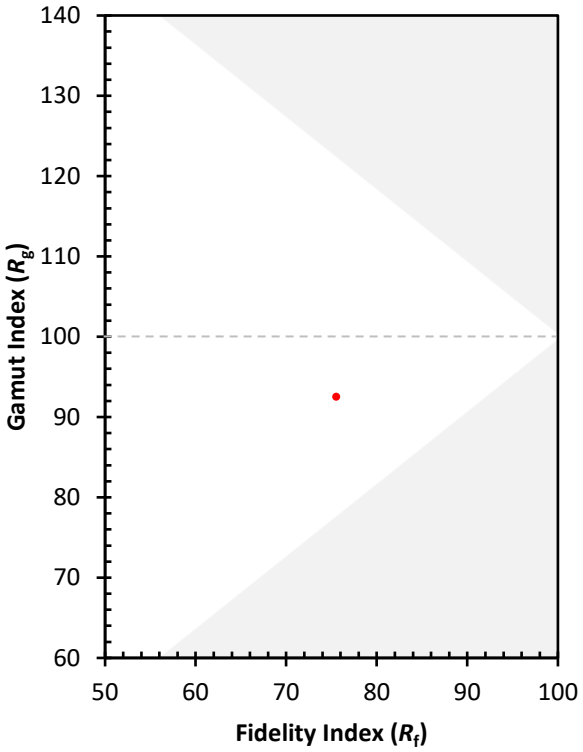
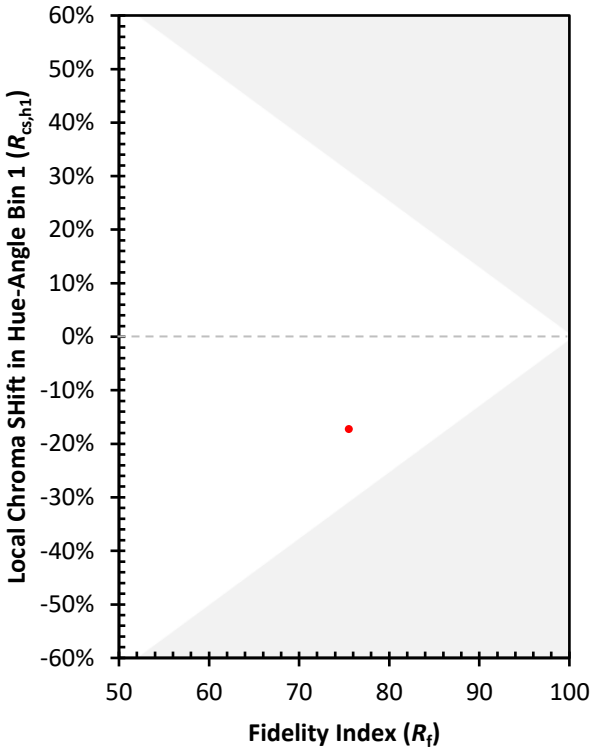
Measure Comparisons





(END OF REPORT)