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: P1224039

Luminaire Tested: **FFX-CLB-20-730-U-VM8-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1224039
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-730-U-VM8-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2860.5 lumens
Efficiency:	N/A
Efficacy:	144.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

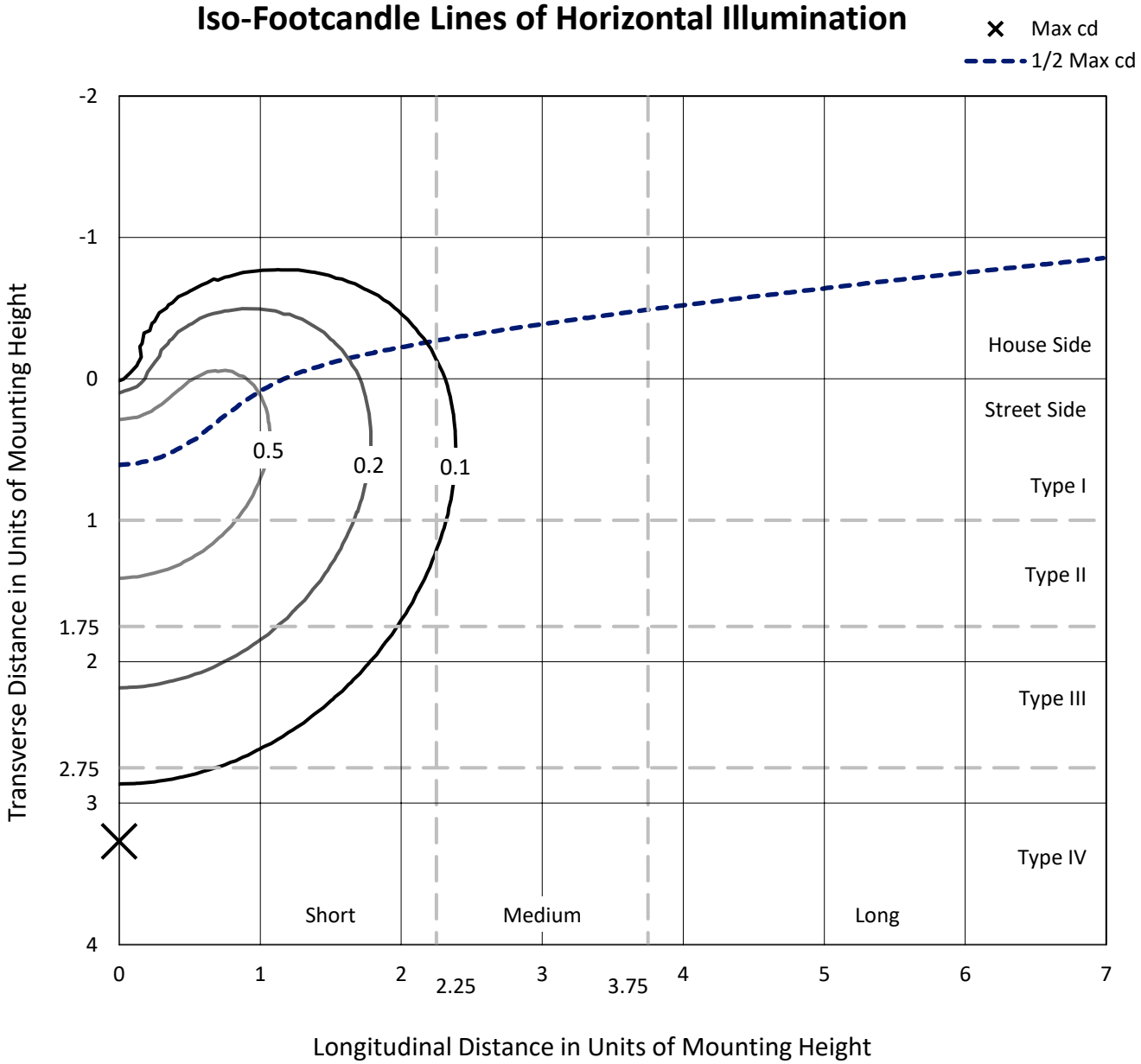


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Iso-Footcandle Lines of Horizontal Illumination



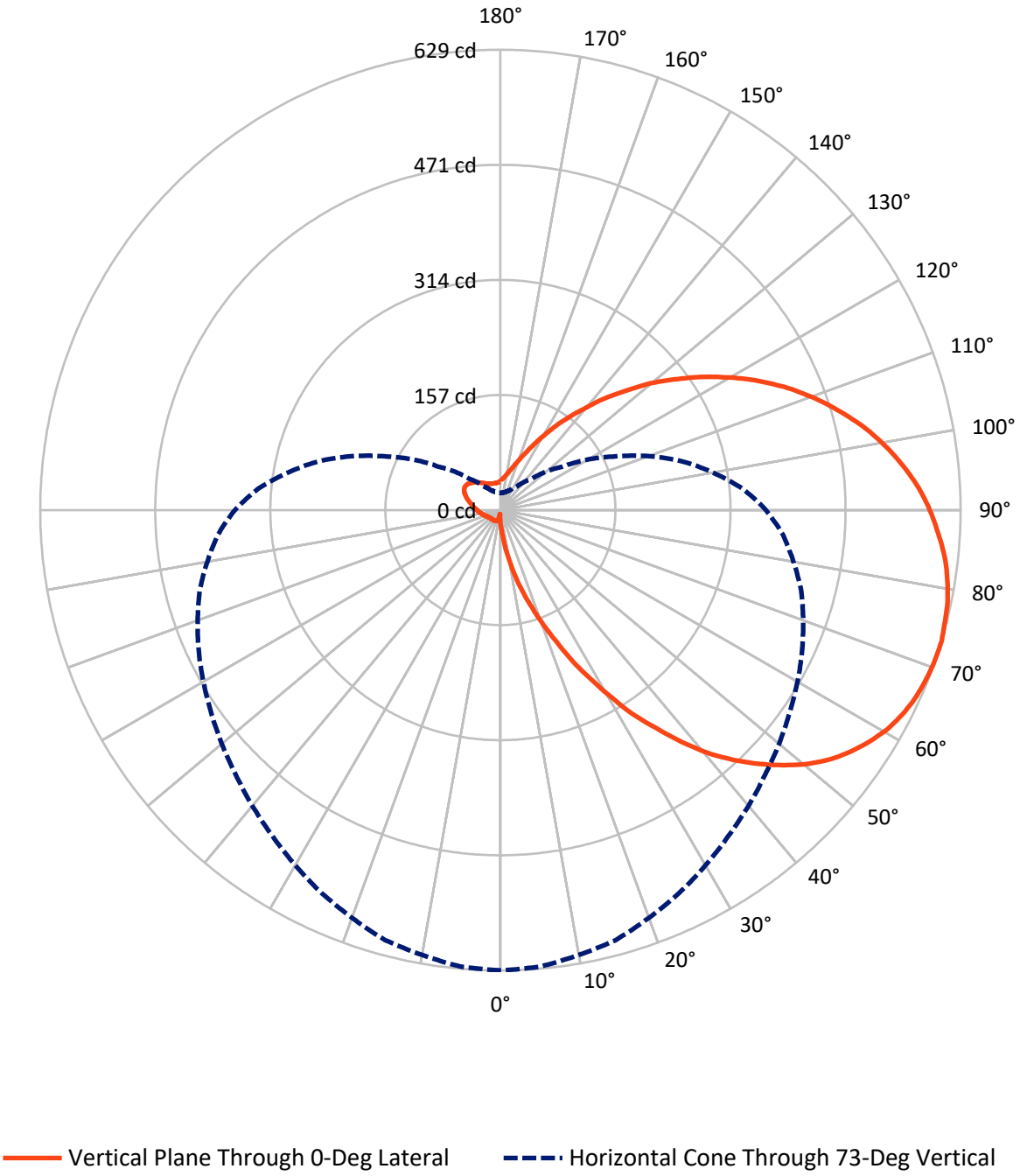
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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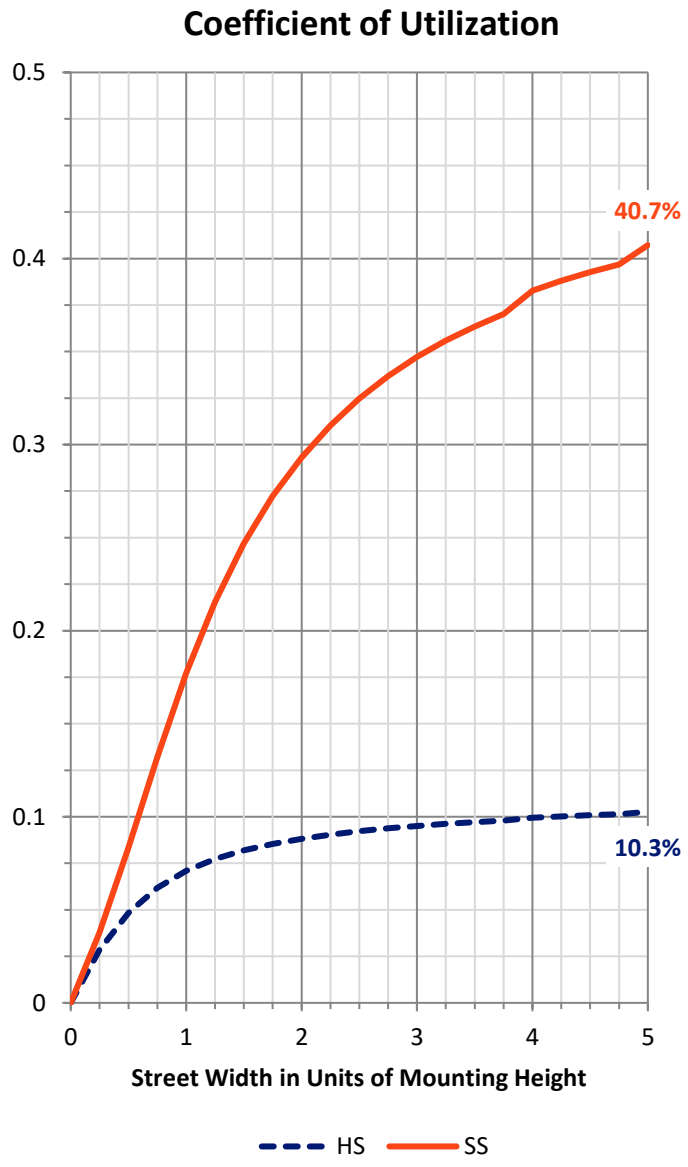
REPORT NUMBER: P1224039
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	316.8	311.3	628.2
	% Fixture	11.1	10.9	22.0
Street Side	Lumens	1335.9	896.5	2232.3
	% Fixture	46.7	31.3	78.0
Total	Lumens	1652.7	1207.8	2860.5
	% Fixture	57.8	42.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	20.3	0.7
20°-30°	61.2	2.1
30°-40°	127.5	4.5
40°-50°	202.2	7.1
50°-60°	265.6	9.3
60°-70°	309.4	10.8
70°-80°	331.6	11.6
80°-90°	331.9	11.6
90°-100°	311.2	10.9
100°-110°	273.8	9.6
110°-120°	226.1	7.9
120°-130°	170.2	5.9
130°-140°	112.3	3.9
140°-150°	64.4	2.3
150°-160°	31.9	1.1
160°-170°	13.9	0.5
170°-180°	3.9	0.1
0°-90°	1652.7	57.8
0°-180°	2860.5	100.0



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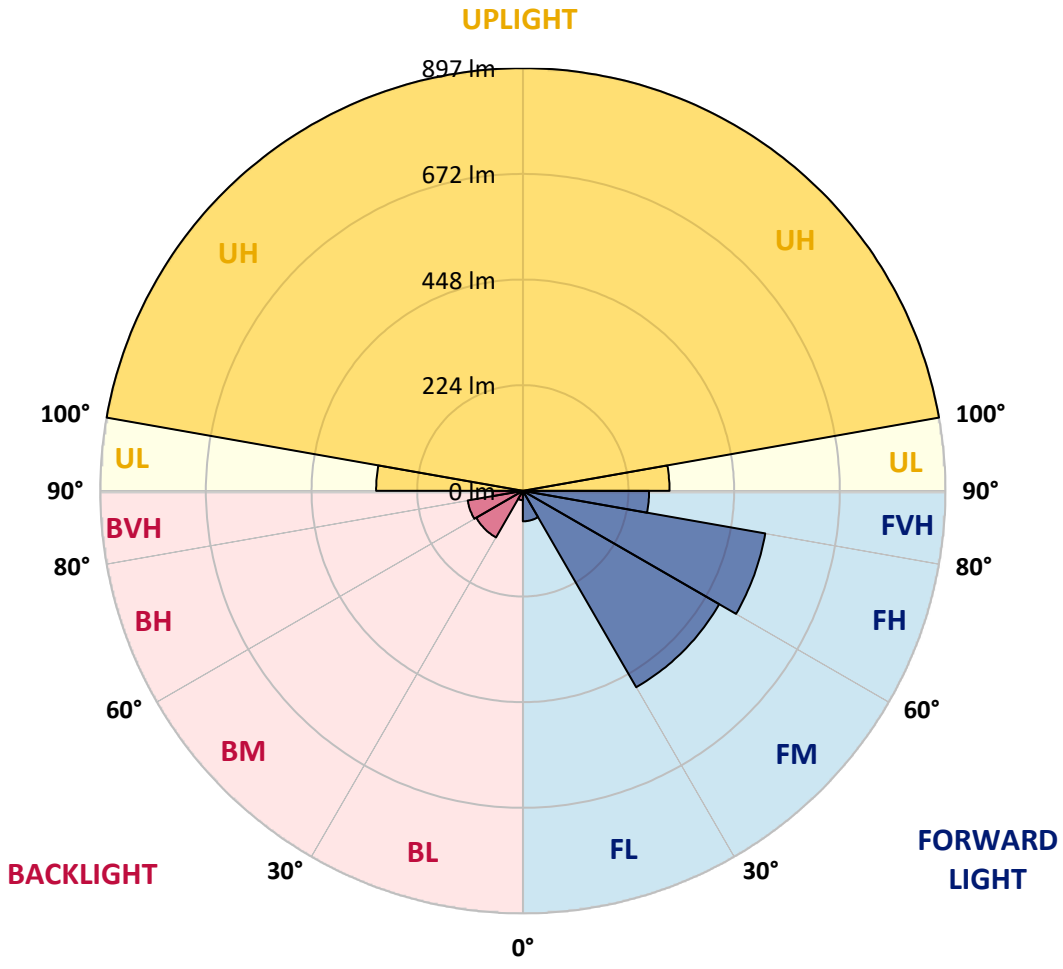
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	64.7	2.3			
FM	(30°-60°)	481.1	16.8			
FH	(60°-80°)	522.2	18.3			G0/660
FVH	(80°-90°)	267.8	9.4			G3/500
BL	(0°-30°)	19.8	0.7	B0/110		
BM	(30°-60°)	114.2	4.0	B0/220		
BH	(60°-80°)	118.8	4.2	B1/500		G1/500
BVH	(80°-90°)	64.1	2.2			G1/100
UL	(90°-100°)	311.2	10.9		U3/500	
UH	(100°-180°)	896.6	31.3		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	25.8	26.0	25.8	26.2	25.2	25.2	24.4	23.7	22.7	21.5	20.7
5°	38.3	38.1	38.1	38.3	37.7	36.0	34.0	31.3	28.9	26.4	25.0
7.5°	55.1	54.4	53.6	53.4	51.4	48.9	46.1	43.0	39.7	36.2	33.6
10°	72.7	73.3	72.5	70.4	68.0	65.1	61.6	57.3	53.0	48.1	45.2
12.5°	95.4	93.8	91.9	89.7	87.4	84.7	79.0	74.1	68.0	62.0	58.1
15°	117.5	116.1	116.1	113.4	109.7	105.6	100.3	94.2	85.8	76.2	72.7
17.5°	140.2	140.4	138.4	135.3	132.0	126.7	121.0	112.4	103.8	93.8	87.8
20°	166.8	166.0	164.6	162.3	156.4	151.7	144.7	135.1	123.4	111.2	103.8
22.5°	194.3	194.7	194.7	191.0	185.5	179.1	171.1	160.1	146.2	130.6	121.6
25°	228.7	228.5	224.8	220.5	216.2	209.6	199.4	186.1	170.9	152.1	141.5
27.5°	260.0	259.8	259.0	255.1	248.7	240.1	228.2	213.7	196.3	173.8	161.3
30°	294.8	295.6	293.5	290.1	281.7	272.9	259.0	242.0	221.5	197.3	183.2
32.5°	332.6	331.0	329.2	324.9	315.7	303.4	287.8	270.2	247.7	219.9	204.5
35°	365.2	368.1	365.4	358.8	347.4	334.3	317.1	297.4	272.9	243.2	225.6
37.5°	402.0	401.4	397.3	390.8	379.9	363.2	345.1	322.2	294.8	263.9	244.4
40°	436.2	433.8	431.5	421.9	408.0	391.4	368.9	345.7	317.5	282.7	263.0
42.5°	466.5	466.3	460.0	450.4	433.0	414.7	391.4	365.4	336.1	300.1	277.8
45°	494.4	493.8	487.8	473.5	457.1	435.0	410.8	383.8	352.9	315.0	293.6
47.5°	520.8	519.3	510.9	496.4	475.7	452.4	427.4	399.0	367.2	328.3	306.0
50°	544.9	543.5	533.7	515.4	493.3	468.4	441.1	411.7	380.6	341.5	317.5
52.5°	565.4	563.1	551.7	532.0	506.8	480.6	452.0	422.7	391.2	350.9	327.7
55°	581.8	579.3	567.2	545.1	518.7	490.3	461.4	432.3	399.4	359.3	335.5
57.5°	595.5	593.6	580.3	556.0	527.9	498.7	469.4	439.7	407.0	367.2	342.3
60°	607.4	605.1	590.0	565.0	535.3	505.2	475.3	445.6	413.5	373.2	348.6
62.5°	615.8	614.1	598.2	571.5	540.6	510.1	479.2	450.4	418.4	378.7	353.3
65°	621.9	619.8	603.7	575.4	543.9	512.4	482.1	452.6	421.5	382.0	356.8
67.5°	625.4	623.9	607.0	578.1	545.3	513.6	483.5	454.7	424.1	384.8	359.5
70°	627.8	625.4	608.4	578.7	544.9	513.4	483.5	454.9	425.4	386.7	361.1
72.5°	628.4	625.8	608.2	577.7	543.7	511.4	482.5	455.1	425.8	387.7	362.7
73°	628.6	625.8	608.0	577.3	543.1	511.2	482.3	454.7	425.4	387.5	362.7
75°	626.4	624.6	606.5	575.0	541.2	509.3	480.9	453.8	425.4	387.7	362.5
77.5°	624.2	621.5	602.5	571.7	536.7	505.8	478.0	451.8	424.1	387.3	362.3
80°	619.2	616.4	597.5	565.4	531.0	500.7	473.9	448.7	421.5	385.1	360.7
82.5°	613.3	610.2	590.4	558.2	524.2	494.2	468.6	444.6	418.2	382.6	358.4
85°	604.7	602.4	582.2	549.4	516.3	487.6	462.6	439.7	413.9	378.7	354.8
87.5°	594.7	592.8	571.9	539.4	506.4	479.0	455.5	433.2	409.0	374.4	350.9
90°	584.4	582.0	561.1	528.1	496.6	469.6	447.3	426.4	402.9	369.1	345.8
92.5°	572.4	569.7	548.6	516.5	485.8	460.0	439.3	418.8	396.1	363.1	340.6
95°	558.0	555.4	534.5	502.4	472.3	448.9	428.7	409.8	388.1	355.8	334.1
97.5°	542.5	540.2	519.1	488.4	459.2	436.2	417.4	400.2	379.5	348.8	326.9
100°	525.9	522.8	501.9	472.3	443.6	422.7	405.9	390.4	370.1	340.0	319.1
102.5°	508.3	505.4	485.4	456.5	429.5	409.2	393.9	378.9	360.3	332.0	311.4
105°	488.4	486.8	466.7	438.7	413.5	394.7	380.5	367.4	349.8	322.2	303.4
107.5°	468.6	465.5	446.7	419.9	396.3	379.3	367.0	354.8	338.8	312.4	294.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*447.7*	444.6	427.8	402.2	380.3	364.0	352.7	341.9	327.5	302.8	286.0
112.5°	*426.6*	423.1	406.5	383.0	361.7	348.4	338.0	329.0	315.9	293.3	276.6
115°	*403.7*	402.4	386.1	363.6	344.9	332.4	323.4	315.2	302.8	282.9	267.6
117.5°	*381.2*	378.7	364.6	343.9	326.5	314.8	307.9	300.7	289.5	270.8	257.5
120°	*357.0*	356.4	342.9	323.6	307.3	298.1	291.5	285.4	275.7	258.7	246.1
122.5°	*334.1*	332.9	320.0	302.6	289.2	280.6	275.3	270.0	261.6	245.8	234.0
125°	*309.9*	308.5	298.3	284.1	271.2	263.0	257.9	253.8	246.1	231.9	220.9
127.5°	*287.4*	286.0	276.8	263.2	253.0	245.6	240.9	237.1	229.5	217.2	207.6
130°	*265.1*	262.8	254.7	243.8	233.6	228.5	223.9	221.1	213.3	201.8	193.4
132.5°	*241.3*	240.1	234.4	224.2	216.0	210.8	206.6	203.1	197.1	186.5	178.9
135°	*220.1*	219.0	213.7	205.1	199.4	194.5	190.8	187.1	180.8	170.7	164.2
137.5°	*200.0*	199.0	194.3	188.5	181.2	178.3	175.8	171.3	165.8	156.6	150.7
140°	*178.9*	179.3	175.6	170.3	165.8	162.3	159.7	156.0	150.5	142.7	136.9
142.5°	*161.5*	162.1	157.6	153.9	149.8	147.0	144.5	141.4	136.1	129.0	124.5
145°	*145.1*	143.7	141.9	138.4	134.5	132.7	130.2	127.5	123.4	116.3	112.6
147.5°	*128.4*	128.1	126.3	124.0	120.8	118.1	116.1	114.6	110.5	104.6	101.3
150°	*113.4*	113.0	112.0	110.3	107.5	105.8	104.2	102.1	98.1	93.6	90.7
152.5°	*100.1*	100.1	99.5	97.2	96.0	94.0	92.1	90.9	87.0	83.3	80.7
155°	*88.6*	88.6	87.8	86.6	84.5	83.3	82.1	80.4	77.6	74.7	72.3
157.5°	*78.6*	78.8	77.8	76.8	75.3	74.3	73.1	71.4	69.6	66.9	65.1
160°	*69.8*	70.0	69.6	68.8	67.3	66.3	65.3	63.9	62.4	60.2	58.7
162.5°	*62.8*	62.6	62.2	61.4	60.4	59.8	58.7	57.7	56.3	54.7	53.4
165°	*57.3*	56.7	56.5	55.9	54.9	54.4	53.4	52.6	51.6	50.0	49.5
167.5°	*52.4*	52.4	52.0	51.6	50.8	50.0	49.3	48.7	47.9	46.9	46.1
170°	*48.5*	48.5	48.1	47.7	46.9	46.5	45.9	45.4	44.8	44.0	43.6
172.5°	*45.4*	45.4	45.2	44.6	44.2	43.6	43.4	42.8	42.2	41.8	41.4
175°	*43.0*	43.0	42.6	42.2	41.8	41.4	41.1	40.9	40.7	40.3	40.1
177.5°	*41.3*	41.1	40.9	40.5	40.1	39.9	39.7	39.5	39.5	39.3	39.1
180°	*38.9*	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	19.9	18.2	16.2	14.5	13.5	12.1	11.3	10.9	11.3	10.8
5°	23.7	20.5	17.4	15.1	12.5	10.6	8.8	7.0	5.9	5.7
7.5°	31.5	28.0	23.7	19.7	16.2	13.1	10.4	8.2	6.6	6.5
10°	41.6	36.4	30.9	25.4	20.3	16.2	12.9	10.6	9.8	9.6
12.5°	54.4	46.7	39.1	31.9	25.6	20.1	16.4	13.9	12.7	12.5
15°	67.6	58.1	48.3	38.9	30.5	23.9	19.2	16.4	15.1	14.9
17.5°	81.9	69.4	56.1	45.2	35.2	27.2	21.3	17.6	16.0	15.6
20°	96.4	80.7	65.5	51.2	39.1	29.3	22.5	18.2	16.2	15.8
22.5°	112.6	93.8	74.9	57.1	42.6	31.5	23.5	18.6	16.4	16.0
25°	131.0	107.1	84.7	63.9	46.5	33.4	24.4	19.2	16.6	16.2
27.5°	149.8	122.0	94.6	70.0	49.9	34.8	25.2	19.4	16.8	16.4
30°	168.7	136.9	104.8	75.9	52.8	36.4	25.6	19.6	16.8	16.6
32.5°	188.5	150.7	114.6	81.3	55.3	37.3	26.0	19.7	17.0	16.6
35°	206.3	165.4	123.8	86.6	57.7	38.1	26.2	19.7	17.0	16.6
37.5°	223.3	177.9	132.2	90.9	59.4	38.7	26.4	19.7	17.0	16.6
40°	241.1	191.2	139.8	94.8	60.8	39.1	26.4	19.7	17.0	16.8
42.5°	255.5	202.3	146.2	97.6	61.8	39.1	26.4	19.7	17.2	16.8
45°	268.6	211.5	152.5	100.1	62.4	39.1	26.2	19.9	17.2	17.0
47.5°	280.0	220.7	157.2	101.9	62.6	39.1	26.2	19.9	17.4	17.2
50°	290.5	228.2	161.3	103.2	62.8	38.9	26.2	20.1	17.6	17.2
52.5°	299.5	234.2	164.6	104.0	62.4	38.5	26.2	20.3	18.0	17.6
55°	307.1	239.9	167.0	104.4	62.0	38.3	26.2	20.5	18.2	18.0
57.5°	313.4	244.4	169.1	104.6	61.6	38.1	26.4	20.9	18.8	18.6
60°	319.1	248.1	170.7	104.6	61.2	37.9	26.6	21.3	19.2	19.0
62.5°	323.6	251.0	171.8	104.4	61.0	37.9	27.0	21.9	19.7	19.6
65°	326.7	253.2	172.4	104.0	60.6	38.1	27.4	22.5	20.5	20.3
67.5°	329.6	255.1	172.8	103.8	60.4	38.3	28.0	23.3	21.3	21.1
70°	331.4	256.3	173.0	103.6	60.2	38.7	28.5	24.0	22.3	22.1
72.5°	332.2	257.1	173.2	103.2	60.4	39.1	29.3	24.8	23.3	23.1
73°	*332.4*	*257.1*	*173.0*	*103.2*	*60.4*	*39.3*	*29.5*	*25.2*	*23.5*	*23.3*
75°	332.8	257.1	172.8	103.0	60.6	39.7	30.1	26.0	24.2	24.2
77.5°	332.2	256.7	172.4	102.8	60.8	40.5	31.1	27.0	25.4	25.2
80°	331.0	255.7	171.8	102.8	61.2	41.3	32.3	28.2	26.6	26.4
82.5°	328.4	254.0	171.1	102.6	61.8	42.2	33.4	29.3	28.0	27.8
85°	325.9	251.8	169.9	102.6	62.6	43.4	34.6	30.7	29.3	29.1
87.5°	322.0	249.3	168.7	102.4	63.3	44.4	35.8	32.1	30.5	30.5
90°	317.5	246.5	167.5	102.6	64.1	45.7	37.3	33.6	32.1	31.9
92.5°	313.0	243.4	166.2	103.0	65.5	47.1	38.9	35.2	33.6	33.2
95°	306.9	239.1	164.6	103.2	66.7	48.7	40.5	36.8	35.2	35.2
97.5°	300.7	235.2	162.9	103.8	68.2	50.6	42.6	38.7	37.1	37.1
100°	294.0	231.1	161.7	104.4	69.8	52.8	44.6	40.7	39.1	39.1
102.5°	287.0	226.6	160.5	105.6	72.1	54.9	46.9	43.0	41.3	41.3
105°	279.8	222.3	159.3	106.9	74.5	57.7	49.5	45.6	43.8	43.8
107.5°	272.7	218.2	158.4	108.7	77.0	60.4	52.0	48.1	46.3	45.9

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

Scaled Data Report

REPORT NUMBER: P1224039
CATALOG NUMBER: FFX-CLB-20-730-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	265.3	213.9	157.6	110.5	80.0	63.5	55.1	50.6	48.7	48.7
112.5°	257.3	209.4	157.0	112.2	83.1	66.7	57.9	53.4	51.4	51.0
115°	248.9	204.9	155.8	114.2	85.8	69.8	60.8	55.7	53.6	53.4
117.5°	240.7	199.6	154.4	115.5	88.4	72.3	63.1	58.1	55.7	55.5
120°	231.1	193.7	152.1	115.9	90.3	74.3	65.1	59.6	57.3	56.9
122.5°	220.5	186.1	148.8	115.5	91.3	75.7	66.3	60.8	58.1	57.9
125°	208.6	177.7	144.5	114.2	91.5	76.2	66.7	61.0	58.5	58.1
127.5°	196.1	169.3	138.8	111.4	90.3	75.9	66.3	60.6	57.9	57.7
130°	183.2	159.3	132.2	107.9	88.4	74.5	65.3	59.6	56.9	56.7
132.5°	170.3	148.8	124.9	103.2	85.6	72.3	63.5	58.1	55.5	55.1
135°	156.4	138.4	117.5	98.3	81.9	70.0	61.4	56.1	53.6	53.4
137.5°	143.7	127.7	109.9	92.9	78.4	66.9	59.0	54.2	52.0	51.6
140°	131.2	117.3	101.7	87.0	73.9	63.7	56.3	52.0	49.9	49.7
142.5°	119.6	107.7	94.4	81.3	69.8	60.6	54.0	49.9	48.1	47.7
145°	107.7	97.8	86.8	75.5	65.3	57.3	51.4	47.7	46.1	45.7
147.5°	97.4	88.6	79.2	69.6	61.2	54.0	48.9	45.7	44.4	44.2
150°	87.6	80.2	71.9	64.1	56.7	50.8	46.5	43.8	42.6	42.4
152.5°	78.8	72.3	65.7	59.0	52.8	48.1	44.4	42.0	41.1	41.1
155°	70.6	65.3	60.0	54.5	49.7	45.7	42.8	40.9	40.1	39.9
157.5°	63.5	59.4	55.1	50.6	46.9	43.6	41.3	39.9	39.1	39.1
160°	57.5	54.4	50.8	47.5	44.6	41.8	40.1	38.9	38.3	38.3
162.5°	52.6	50.0	47.3	44.8	42.2	40.5	39.1	38.3	37.9	37.9
165°	48.5	46.7	44.8	42.6	40.9	39.5	38.5	37.9	37.7	37.7
167.5°	45.6	44.0	42.4	41.1	39.9	38.7	38.1	37.7	37.7	37.5
170°	43.0	42.0	40.7	39.7	38.7	38.1	37.7	37.5	37.5	37.3
172.5°	41.1	40.3	39.5	38.7	38.1	37.7	37.5	37.5	37.5	37.5
175°	39.9	39.3	38.7	38.3	37.9	37.5	37.5	37.7	37.7	37.7
177.5°	38.9	38.7	38.3	38.1	37.9	37.9	37.9	38.1	38.3	38.3
180°	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9

Cooper Lighting Solutions Photometric Lab
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: SP1-2501-332-4

Test Date: 03/21/2025

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

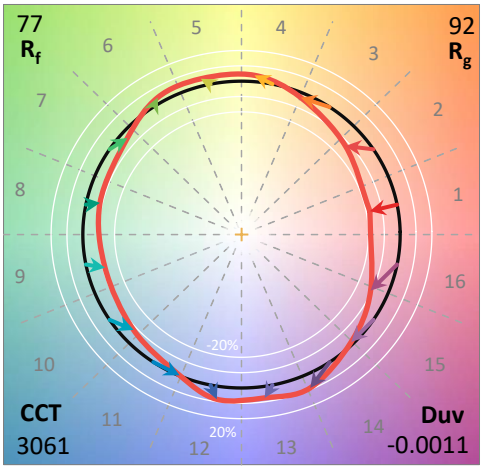
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-4
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-100-730-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3061
CIE u':	0.2489
CIE v':	0.5187
Duv:	-0.0011
CIE x:	0.4312
CIE y:	0.3995
CIE z:	0.1693
Peak Wavelength (nm):	592
Dominant Wavelength (nm):	582
Purity:	49.32381
Rf:	76.8
Rg:	92.2

CRI (Ra):	71.7
R1:	67.8
R2:	85.0
R3:	92.9
R4:	66.0
R5:	68.5
R6:	80.2
R7:	74.5
R8:	39.0
R9:	-40.3
R10:	67.2
R11:	61.6
R12:	59.9
R13:	71.4
R14:	96.3
R15:	58.8



Test Conditions

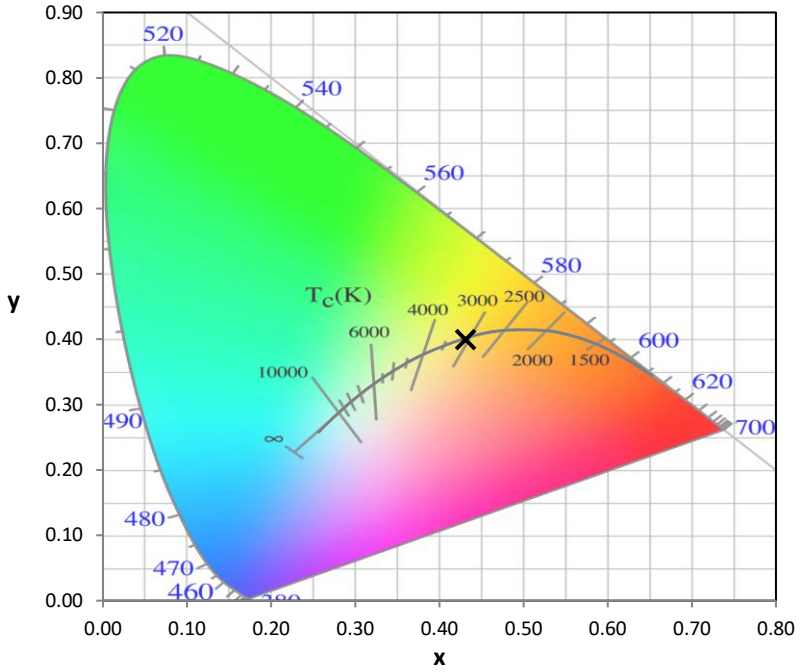
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

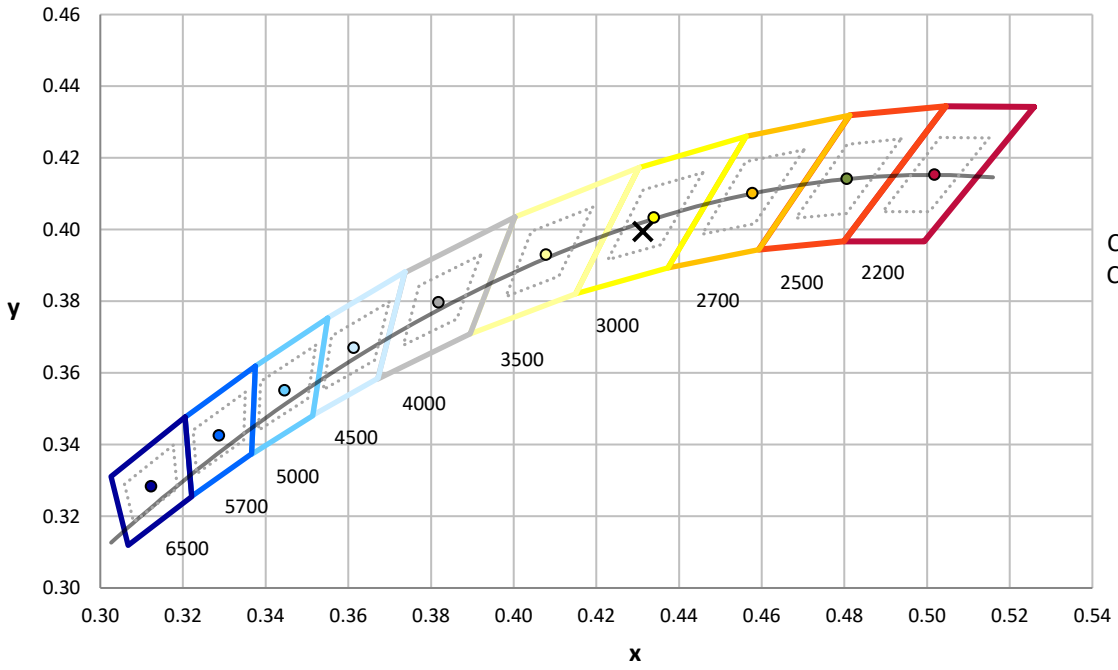
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



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

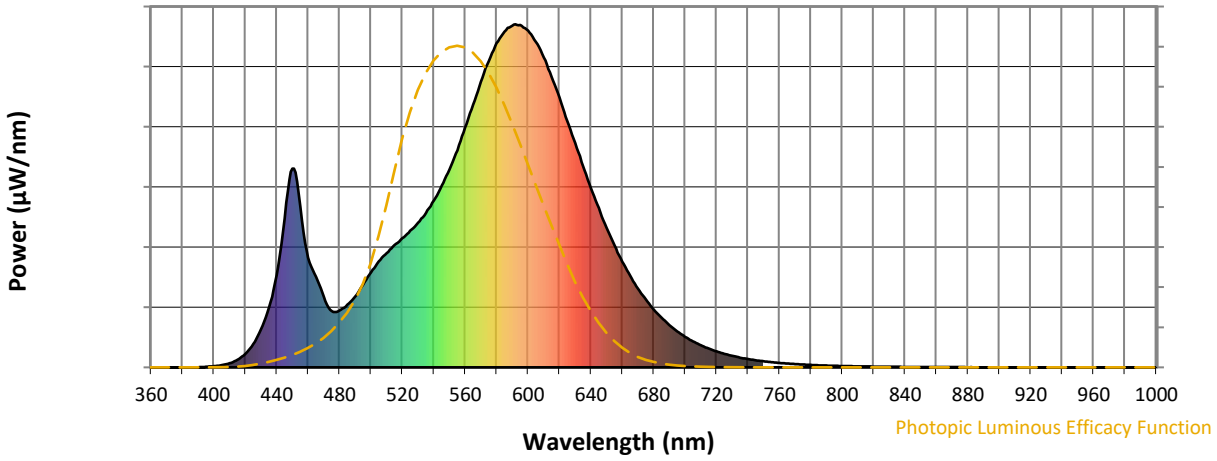


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

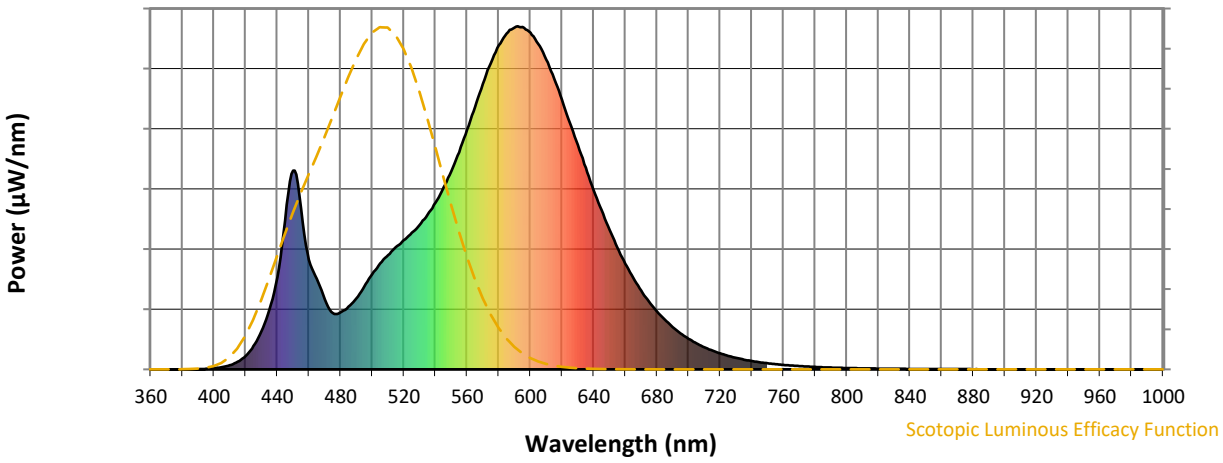


Photopic Lumens: NR

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

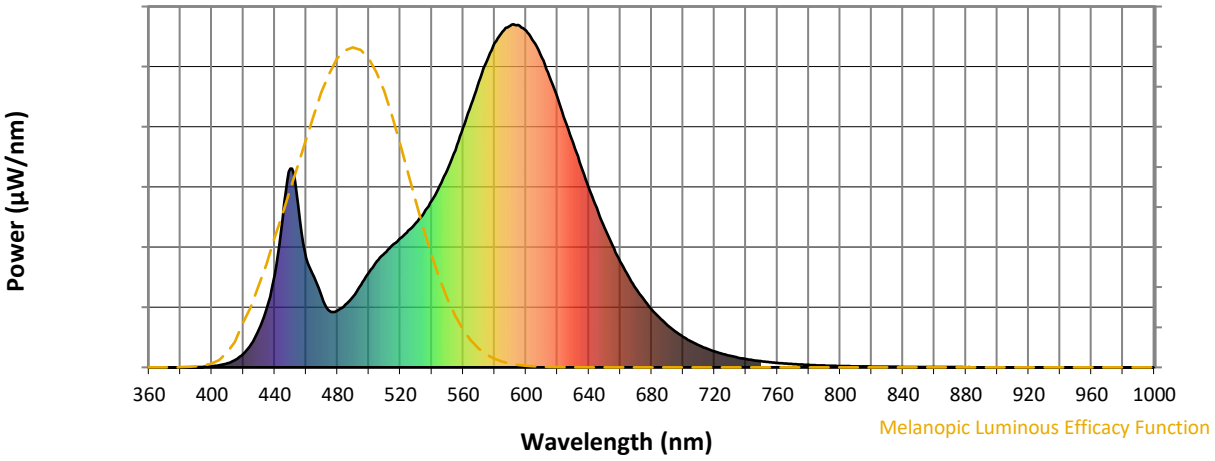


Scotopic Lumens: NR **S/P: 1.29**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

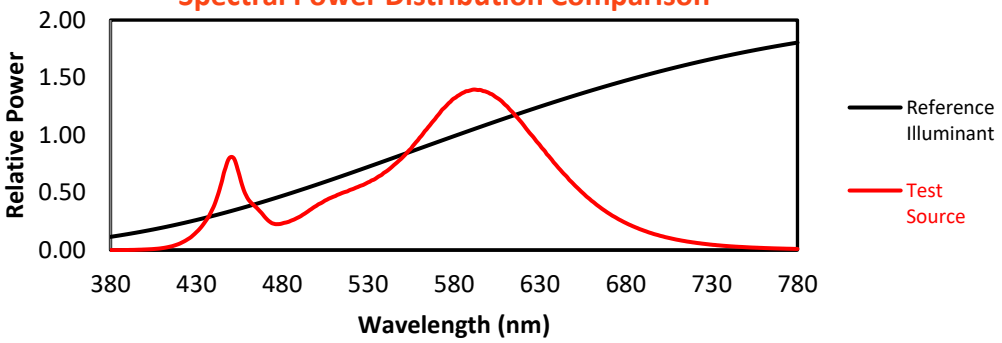
REPORT NUMBER: SP1-2501-332-4

TM-30-18

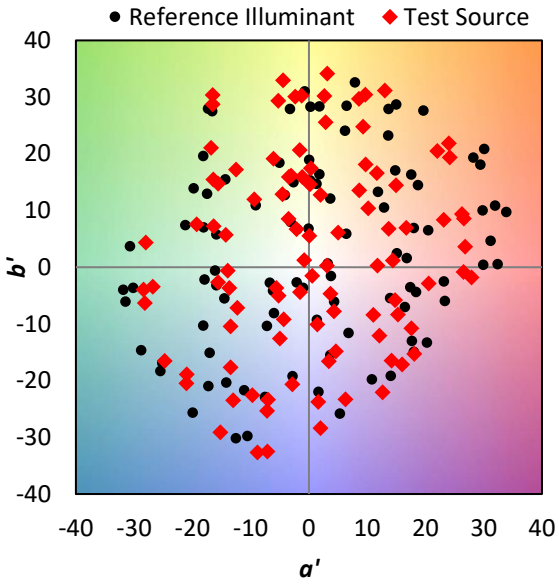
Summary

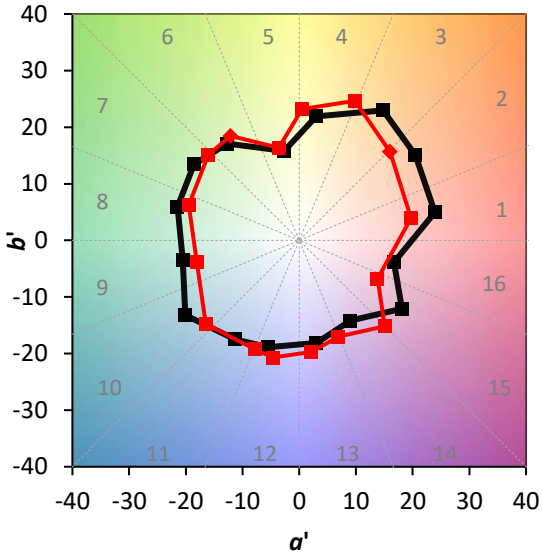
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

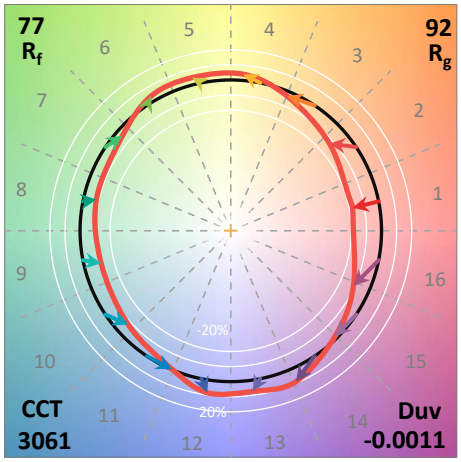
Spectral Power Distribution Comparison

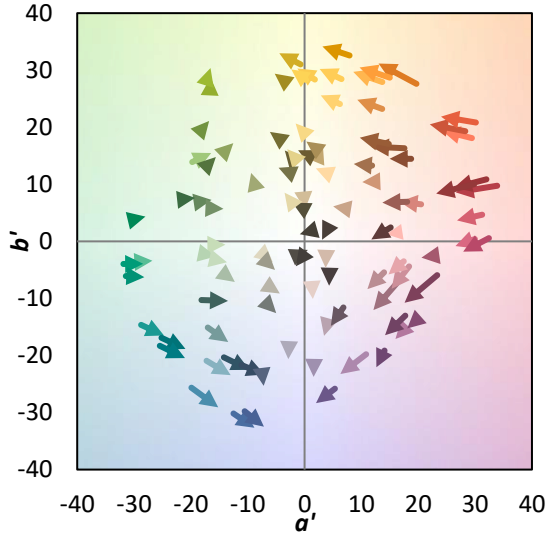


Color Vector Graphics







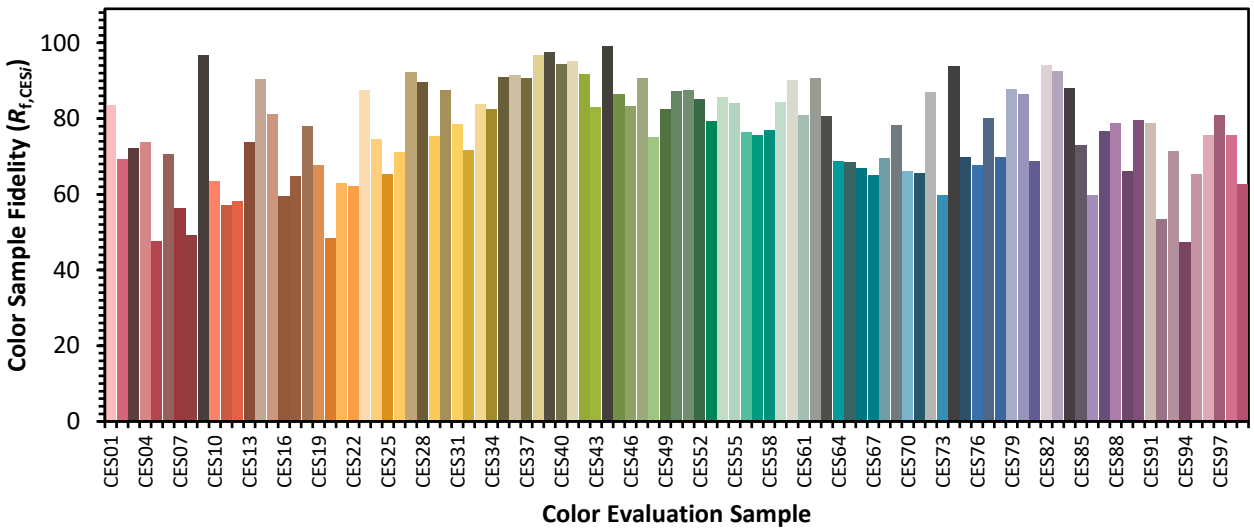


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

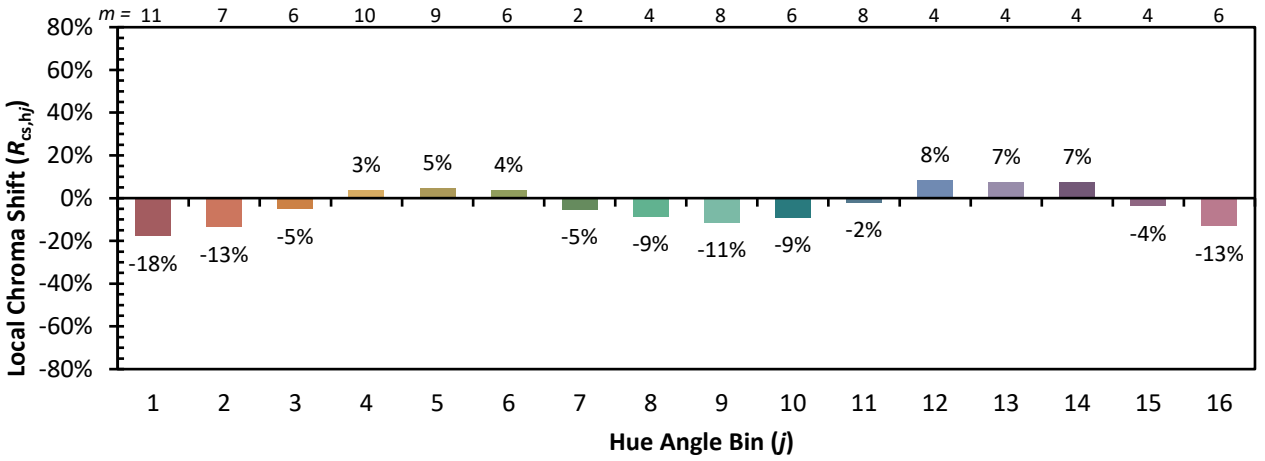
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 83	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 73
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 91	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 97	CES63 = 81	CES88 = 79
CES14 = 74	CES39 = 98	CES64 = 69	CES89 = 66
CES15 = 71	CES40 = 94	CES65 = 69	CES90 = 80
CES16 = 47	CES41 = 95	CES66 = 67	CES91 = 79
CES17 = 50	CES42 = 92	CES67 = 65	CES92 = 53
CES18 = 56	CES43 = 83	CES68 = 70	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 66	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 60	CES98 = 76
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 63
CES25 = 73	CES50 = 87	CES75 = 70	

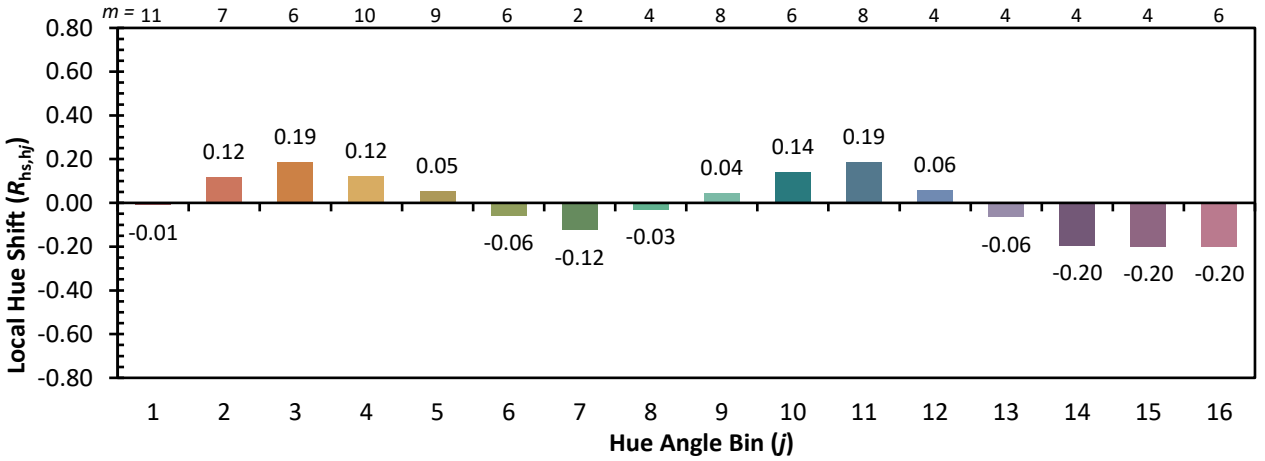


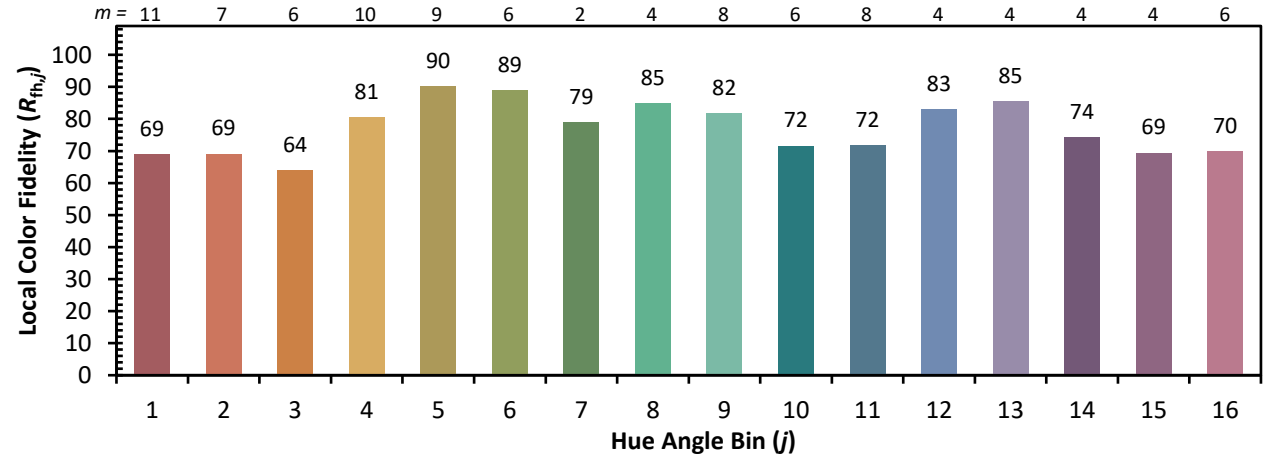
REPORT NUMBER: SP1-2501-332-4

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Color Rendition by Hue-Angle Bin



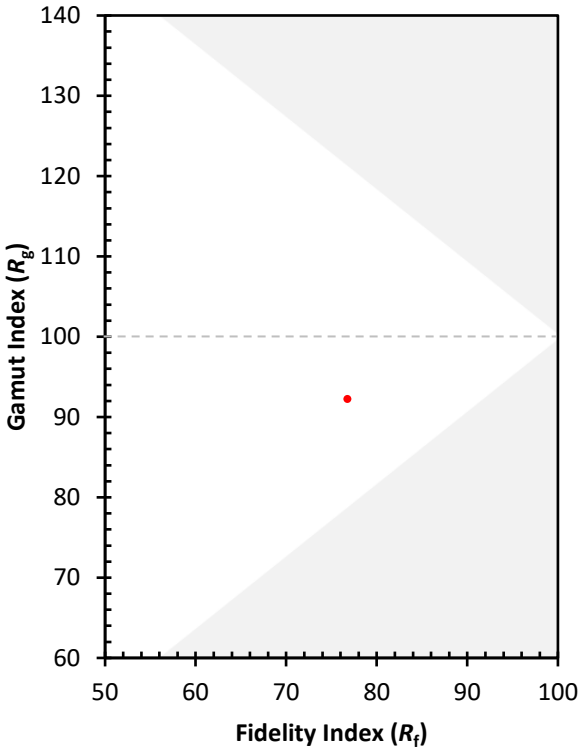


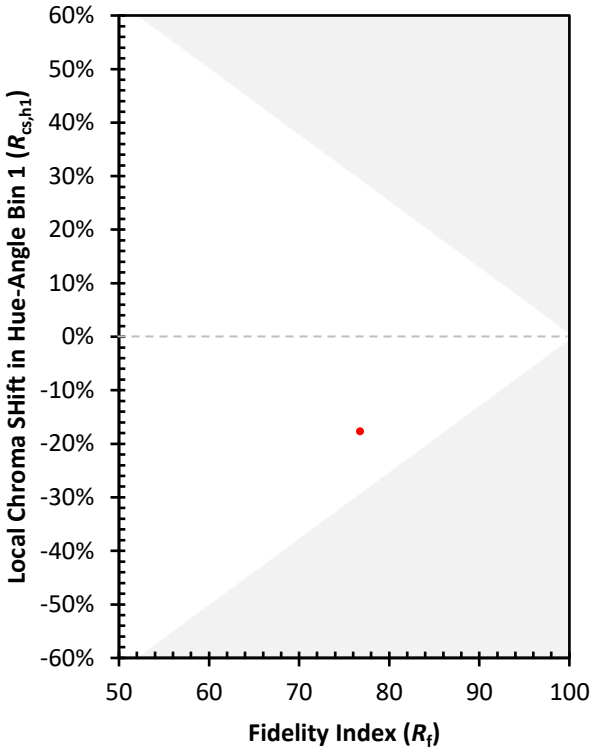


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Measure Comparisons





(END OF REPORT)