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: P1045892

Luminaire Tested: **FFX-CLB-30-730-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045892
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-730-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3316.4 lumens
Efficiency:	N/A
Efficacy:	108.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G3

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

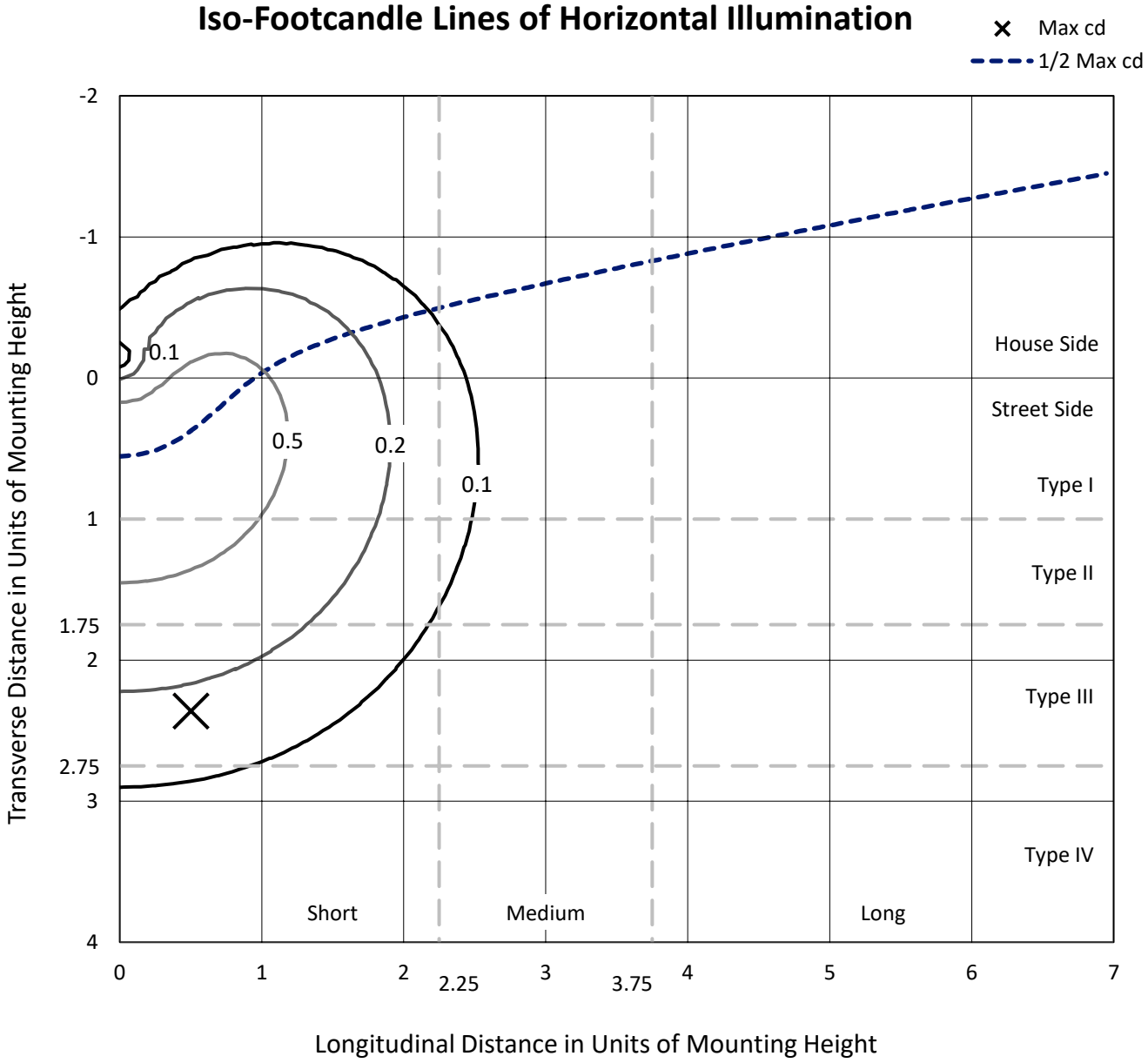


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Iso-Footcandle Lines of Horizontal Illumination



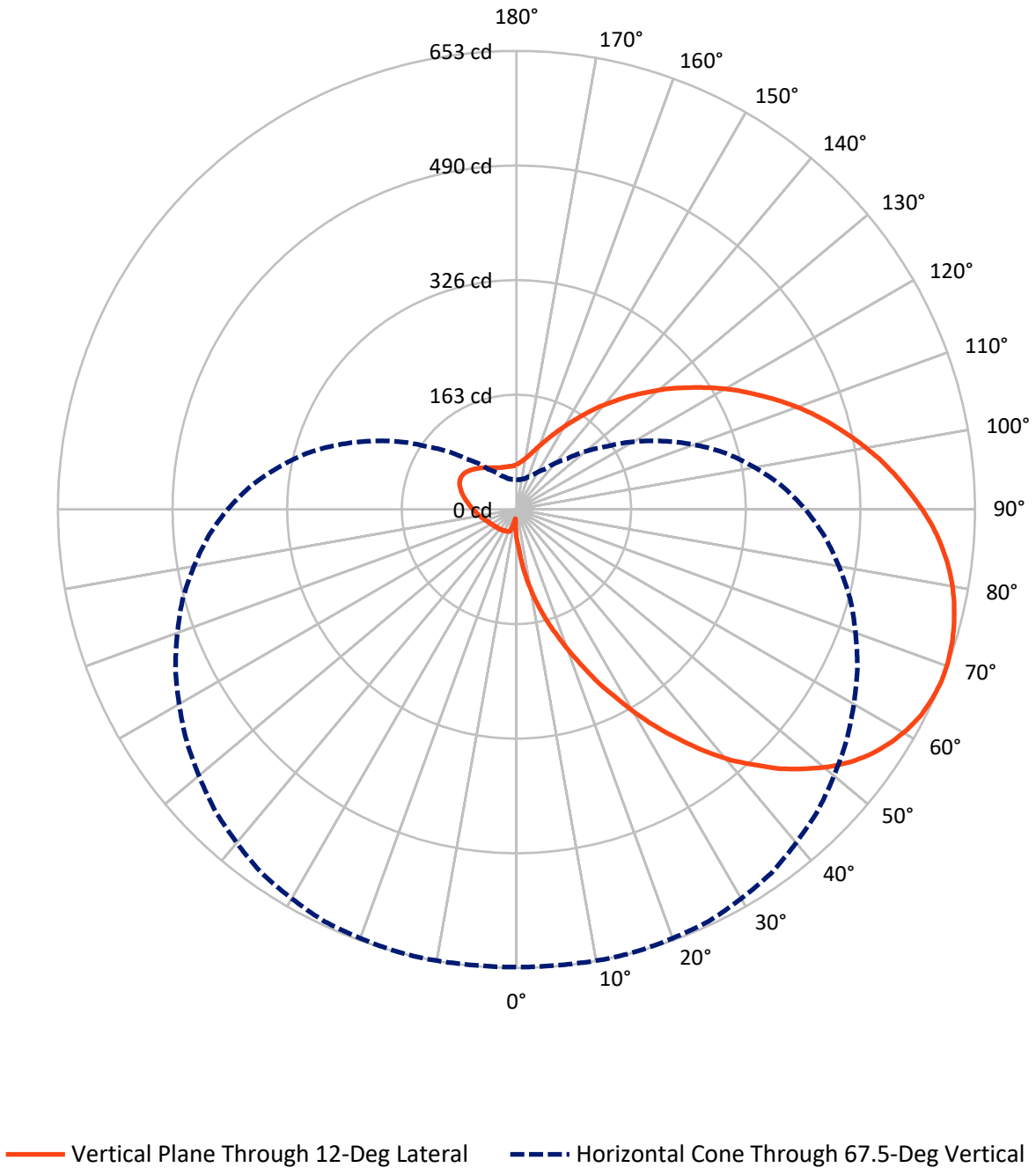
Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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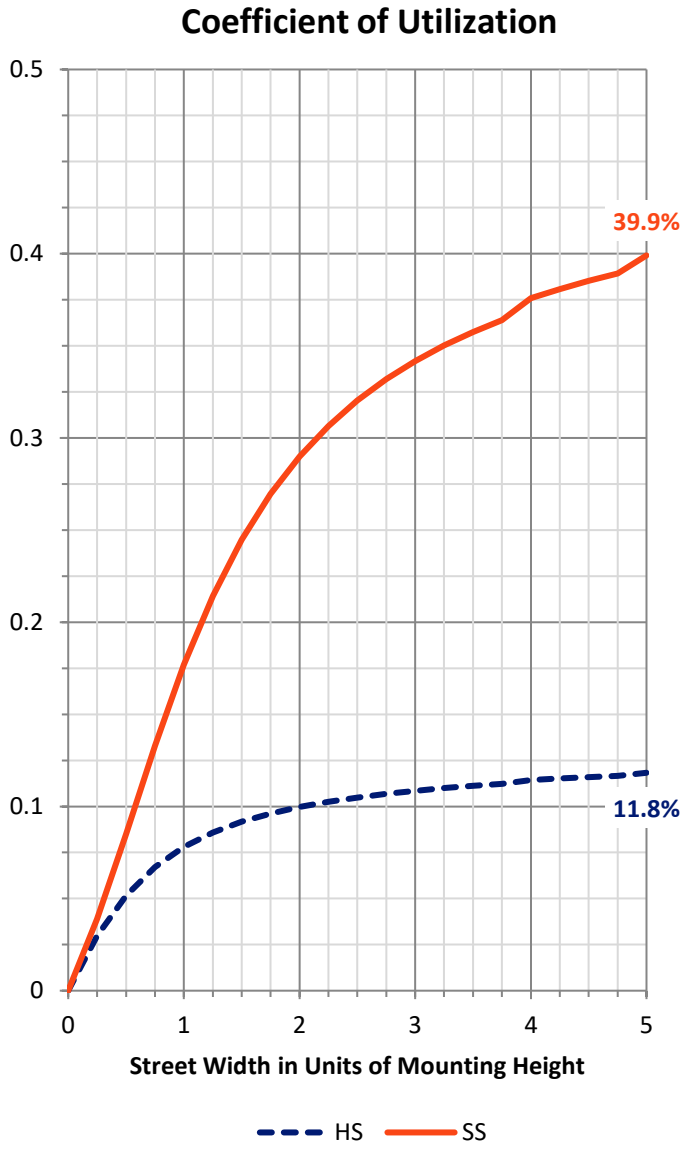
REPORT NUMBER: P1045892
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.8	413.1	839.9
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	1509.0	967.6	2476.6
	% Fixture	45.5	29.2	74.7
Total	Lumens	1935.8	1380.7	3316.4
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.2
10°-20°	29.5	0.9
20°-30°	76.9	2.3
30°-40°	149.4	4.5
40°-50°	234.6	7.1
50°-60°	311.3	9.4
60°-70°	362.8	10.9
70°-80°	385.5	11.6
80°-90°	380.6	11.5
90°-100°	350.9	10.6
100°-110°	306.2	9.2
110°-120°	251.8	7.6
120°-130°	190.6	5.7
130°-140°	130.2	3.9
140°-150°	79.8	2.4
150°-160°	43.8	1.3
160°-170°	21.1	0.6
170°-180°	6.2	0.2
0°-90°	1935.8	58.4
0°-180°	3316.4	100.0



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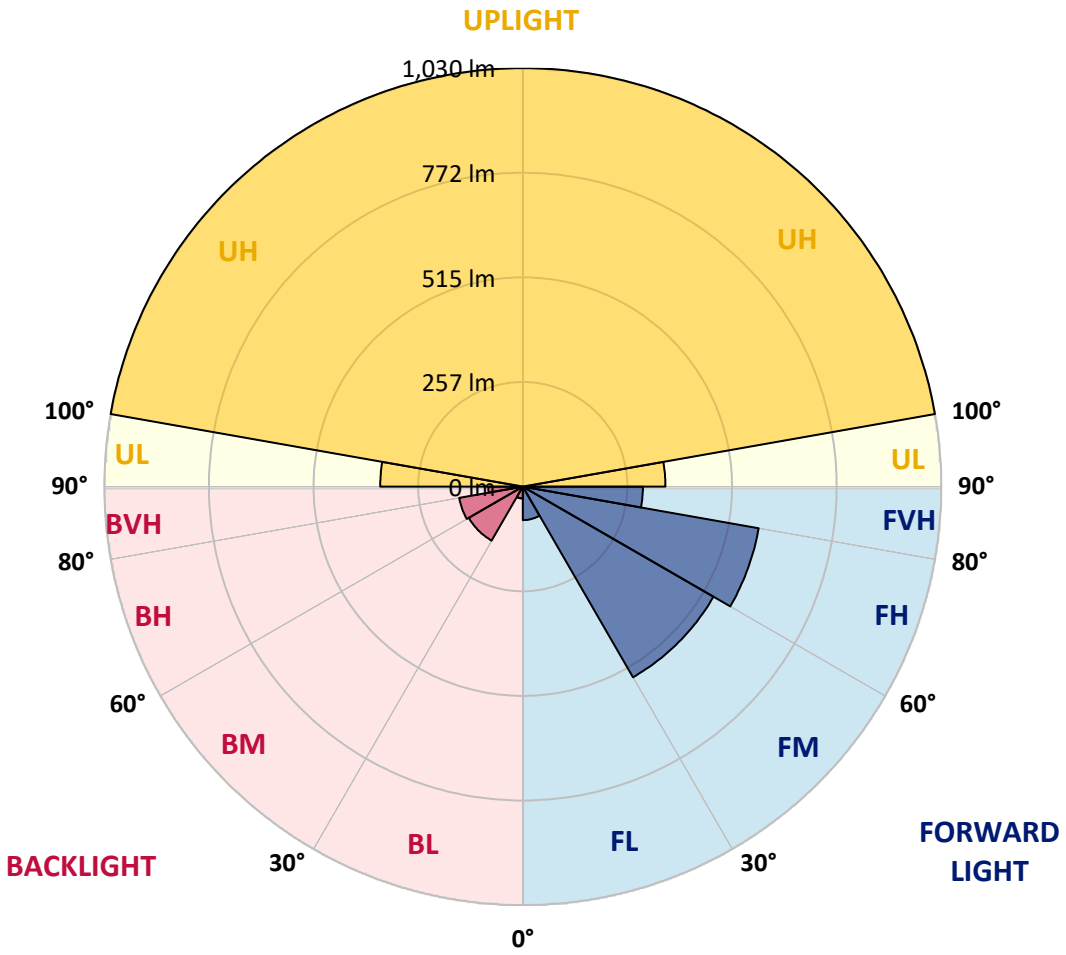
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	82.4	2.5			
FM	(30°-60°)	541.8	16.3			
FH	(60°-80°)	589.3	17.8			G0/660
FVH	(80°-90°)	295.4	8.9			G3/500
BL	(0°-30°)	29.2	0.9	B0/110		
BM	(30°-60°)	153.4	4.6	B0/220		
BH	(60°-80°)	158.9	4.8	B1/500		G1/500
BVH	(80°-90°)	85.2	2.6			G1/100
UL	(90°-100°)	350.9	10.6		U3/500	
UH	(100°-180°)	1029.8	31.1		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
2.5°	52.5	53.6	52.5	54.0	53.3	53.3	51.4	49.6	47.1	44.1	41.6
5°	74.4	74.1	72.6	74.1	72.6	70.8	67.9	63.1	58.4	54.0	48.5
7.5°	97.0	97.4	96.3	96.0	92.7	90.1	85.4	80.6	74.8	68.2	61.7
10°	121.5	120.8	118.9	119.3	115.7	110.5	105.1	99.6	93.0	85.4	77.0
12.5°	144.1	144.1	142.7	143.0	139.0	133.2	128.8	121.5	113.5	104.3	94.1
15°	168.2	166.7	166.0	166.0	162.0	156.9	152.1	144.1	134.6	124.4	112.7
17.5°	190.4	190.1	189.4	189.7	186.1	181.7	174.0	166.0	154.7	142.3	130.2
20°	218.9	217.4	216.3	214.5	212.3	206.5	199.2	188.6	177.3	163.8	147.8
22.5°	244.8	246.6	243.7	242.3	239.3	234.6	224.0	213.8	200.3	184.6	167.1
25°	274.7	276.2	275.1	273.3	269.3	262.7	252.8	241.5	225.5	207.6	186.8
27.5°	306.1	307.2	304.3	305.0	298.1	291.9	282.0	268.2	252.8	231.7	209.8
30°	337.1	339.3	338.2	335.7	329.8	324.3	312.7	298.1	280.6	257.2	232.0
32.5°	373.6	371.0	371.4	368.5	364.8	356.1	345.9	329.4	309.0	284.2	255.4
35°	407.5	406.4	403.5	405.0	398.8	390.7	378.0	360.5	338.2	310.8	279.1
37.5°	437.8	438.9	437.1	436.0	432.0	422.8	407.9	390.0	364.5	335.7	301.0
40°	468.8	469.5	469.2	469.2	463.7	453.5	438.2	418.1	391.8	360.8	323.2
42.5°	498.4	499.1	497.3	497.6	493.3	482.7	466.3	445.1	415.9	383.4	342.6
45°	526.8	526.8	526.8	526.5	520.3	510.4	493.6	469.5	440.4	403.5	360.5
47.5°	553.1	552.4	552.0	552.0	548.0	536.3	518.4	492.2	460.4	421.8	378.0
50°	576.4	576.8	576.4	575.7	569.5	560.0	540.0	512.6	479.0	439.3	392.6
52.5°	596.5	596.9	597.2	595.4	591.4	580.1	557.8	528.7	494.7	453.1	404.6
55°	612.6	613.3	614.0	613.3	609.3	595.8	573.5	544.0	507.5	464.8	415.2
57.5°	627.5	627.2	627.5	626.8	622.4	609.3	586.3	554.6	517.7	474.3	423.2
60°	637.7	638.1	638.1	638.1	633.0	619.5	595.1	562.6	525.0	481.6	430.1
62.5°	644.7	645.0	646.1	645.4	640.7	626.4	601.3	568.4	530.5	486.3	434.9
65°	649.4	649.8	650.5	649.8	645.4	630.8	605.3	572.1	534.1	490.0	438.2
67.5°	651.6	651.6	652.7	652.3	647.2	632.3	606.7	573.5	535.6	491.8	440.4
70°	650.5	650.9	651.6	651.2	646.1	631.2	605.6	572.8	535.2	491.8	440.7
72.5°	648.0	648.0	648.7	648.0	643.2	628.3	603.1	570.6	533.4	491.1	440.4
75°	642.8	643.2	643.6	643.2	638.1	623.5	598.7	566.6	530.5	488.5	438.9
77.5°	636.6	637.0	637.0	637.0	631.5	616.9	592.9	561.5	526.5	485.6	436.3
80°	627.5	627.9	628.6	627.9	622.4	609.3	585.2	555.3	521.4	480.9	433.1
82.5°	617.3	616.9	618.0	617.7	612.2	599.1	575.4	546.9	513.7	475.4	428.3
85°	604.5	604.5	605.3	604.5	599.8	585.9	563.7	536.7	504.9	467.4	422.5
87.5°	590.3	590.3	591.0	589.6	584.1	572.1	550.9	524.6	495.5	459.3	415.9
90°	573.5	574.3	574.3	573.2	567.7	556.0	536.7	511.5	483.0	449.5	408.3
92.5°	557.5	557.5	556.7	556.7	550.9	539.2	521.4	498.4	471.7	439.6	399.9
95°	540.3	540.3	539.2	538.5	532.7	522.8	505.7	484.5	459.0	429.4	391.5
97.5°	522.1	521.7	521.0	520.3	514.4	504.9	489.6	469.2	445.8	417.7	382.4
100°	503.5	503.8	501.3	500.9	495.1	487.1	472.5	453.5	432.0	405.7	372.5
102.5°	483.0	483.8	481.6	481.2	475.4	466.6	455.0	437.8	418.5	394.4	362.6
105°	464.8	463.0	461.9	461.2	456.0	448.0	435.6	422.1	403.9	381.3	351.7
107.5°	444.0	444.4	442.2	440.7	435.6	429.1	418.1	405.7	389.6	368.1	341.1
110°	423.2	422.5	421.4	420.7	414.8	409.0	399.5	389.3	373.6	355.0	329.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	401.7	402.1	*400.2*	399.1	395.1	388.9	382.0	372.1	358.6	341.1	317.4
115°	381.6	380.9	*379.4*	378.7	374.3	369.6	362.6	355.4	343.3	326.5	305.0
117.5°	361.2	359.7	*359.4*	358.3	355.0	350.2	344.8	338.6	326.9	312.3	291.9
120°	340.0	340.0	*339.3*	338.6	334.2	330.2	326.9	320.3	310.5	296.6	279.1
122.5°	320.3	320.0	*318.5*	317.4	315.2	311.6	307.6	302.5	293.7	281.3	264.5
125°	298.8	299.5	*298.4*	298.1	294.4	292.6	289.0	285.7	276.5	265.2	250.3
127.5°	280.9	279.8	*279.8*	278.0	276.2	274.4	271.4	267.1	260.9	249.2	235.3
130°	262.0	261.2	*260.1*	260.1	257.9	255.4	253.6	249.9	243.0	233.5	220.4
132.5°	243.0	242.3	*241.5*	240.4	239.0	238.6	236.8	232.8	226.2	217.8	206.5
135°	225.1	224.7	*224.4*	224.4	222.2	221.1	218.9	215.6	211.2	203.6	192.6
137.5°	208.3	207.2	*206.5*	206.5	205.8	203.9	202.1	199.6	194.8	188.6	178.8
140°	190.8	191.5	*191.5*	191.2	189.7	188.6	186.4	184.2	179.5	174.4	166.0
142.5°	176.2	175.9	*175.1*	174.8	174.0	172.6	171.5	168.9	166.0	160.5	153.2
145°	160.5	160.5	*160.2*	160.5	159.1	158.7	157.2	155.1	151.8	147.0	140.8
147.5°	146.7	146.7	*146.3*	146.7	145.6	144.5	143.4	141.9	139.0	135.4	129.9
150°	133.9	134.3	*133.5*	133.5	133.2	132.1	131.3	129.2	127.0	124.0	119.3
152.5°	122.2	122.6	*122.2*	121.9	121.5	120.8	119.7	118.2	116.0	113.5	109.5
155°	112.4	112.0	*112.0*	112.0	111.6	110.5	110.5	108.4	106.2	104.3	100.3
157.5°	102.9	102.9	*102.9*	102.9	102.2	101.8	101.1	99.2	98.1	95.6	92.7
160°	95.2	94.9	*94.9*	94.9	94.1	93.8	92.7	91.9	90.5	88.3	86.1
162.5°	87.6	87.9	*87.9*	87.9	87.2	86.8	86.1	85.4	84.3	82.1	80.6
165°	81.7	81.7	*81.7*	81.4	81.0	81.0	79.9	79.5	78.4	77.0	75.9
167.5°	77.0	77.0	*76.6*	77.0	76.3	75.5	75.2	74.4	73.7	73.0	71.9
170°	73.0	73.0	*73.0*	73.0	72.6	72.2	71.5	71.1	70.4	69.7	68.6
172.5°	69.7	69.7	*69.7*	69.7	69.3	69.0	68.2	67.9	67.5	66.8	66.0
175°	67.1	67.1	*67.1*	67.1	66.8	66.4	65.7	65.7	65.3	64.9	64.2
177.5°	65.3	65.3	*64.9*	64.9	64.6	64.2	64.2	63.8	63.8	63.5	63.1
180°	63.1	63.1	*63.1*	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
2.5°	40.1	38.7	36.1	33.9	31.4	29.6	27.7	27.4	27.4	28.1	28.1
5°	46.3	43.1	37.9	33.2	27.7	23.7	20.1	16.8	14.6	13.5	13.5
7.5°	58.0	55.5	47.8	41.2	34.7	28.5	22.6	17.5	13.9	11.3	10.9
10°	73.0	69.0	59.8	51.4	42.7	35.0	28.1	21.9	17.5	15.3	15.3
12.5°	89.0	83.5	72.6	62.4	52.2	42.3	34.3	28.1	23.7	21.5	20.8
15°	106.2	100.0	86.8	73.7	61.3	50.7	41.6	33.9	29.6	27.4	27.0
17.5°	122.2	115.3	100.3	84.6	70.4	57.6	46.7	38.7	33.2	30.6	30.3
20°	139.7	130.6	113.1	94.9	78.1	62.8	50.3	40.9	34.3	31.4	31.0
22.5°	157.6	147.0	126.2	105.1	85.0	67.5	52.9	42.0	34.7	31.4	31.0
25°	176.6	164.9	140.5	116.0	92.7	72.2	55.5	43.1	35.4	31.4	31.0
27.5°	196.6	183.5	155.4	127.7	100.3	77.0	58.0	44.5	35.8	31.7	31.0
30°	218.2	203.2	170.7	139.0	107.6	81.4	60.2	45.2	36.1	31.7	31.4
32.5°	239.7	221.5	187.5	149.9	115.3	85.4	62.4	46.3	36.5	32.1	31.7
35°	260.5	242.6	202.9	161.3	122.6	89.4	64.2	47.1	37.2	32.5	31.7
37.5°	281.7	262.3	217.4	171.8	129.2	92.7	65.7	47.8	37.6	32.8	32.1
40°	301.7	279.1	231.7	182.1	134.6	95.6	66.8	48.2	37.9	33.2	32.5
42.5°	320.7	296.6	245.2	190.8	140.1	97.8	67.9	48.9	38.3	33.6	33.2
45°	336.7	311.9	256.8	199.6	144.1	99.6	68.6	49.3	38.7	33.9	33.6
47.5°	352.4	325.8	267.8	206.5	148.1	101.4	69.0	49.6	39.0	34.7	34.3
50°	366.3	338.2	277.6	212.7	151.0	102.2	69.3	50.0	39.8	35.4	35.0
52.5°	378.0	348.8	285.3	217.8	153.2	102.9	69.3	50.0	40.1	36.1	35.8
55°	387.5	357.9	292.2	221.5	154.7	103.2	69.3	50.3	40.9	36.8	36.5
57.5°	395.5	364.8	297.7	224.7	156.2	103.2	69.3	50.7	41.6	37.6	37.2
60°	401.3	370.7	301.7	226.9	156.5	102.9	69.3	51.1	42.3	38.7	38.3
62.5°	406.1	374.7	305.0	228.4	156.5	102.2	69.3	51.4	43.1	39.8	39.4
65°	409.3	377.6	307.2	229.1	156.2	101.8	69.3	52.2	44.1	40.9	40.5
67.5°	*411.2*	*379.8*	*308.7*	*229.8*	*155.8*	*101.8*	*69.7*	*53.3*	*45.2*	*42.3*	*42.0*
70°	411.9	380.2	309.0	229.5	155.4	101.1	70.0	54.0	46.7	43.8	43.4
72.5°	411.9	380.5	309.0	229.5	154.7	101.4	70.4	55.1	48.2	45.2	44.9
75°	410.8	379.4	308.7	228.8	154.3	101.1	71.5	56.6	49.6	47.1	46.7
77.5°	408.6	378.0	307.6	227.7	154.0	101.4	72.2	58.0	51.4	48.9	48.9
80°	406.1	375.8	306.1	226.6	153.6	102.2	73.3	59.8	53.3	51.1	50.7
82.5°	402.1	372.5	303.5	225.1	152.9	102.5	74.8	61.7	55.5	52.9	52.9
85°	396.6	367.8	300.3	223.3	152.1	103.2	76.3	63.1	57.6	55.1	55.1
87.5°	390.7	362.6	296.2	221.1	151.8	104.0	78.1	65.3	59.5	57.3	56.9
90°	383.8	356.4	292.2	218.5	151.4	105.1	79.5	67.5	62.0	59.8	59.5
92.5°	376.5	350.2	287.9	216.7	151.0	106.2	81.7	70.0	64.6	62.4	62.0
95°	369.2	343.7	283.5	214.2	151.0	107.6	83.9	72.6	67.1	64.9	64.6
97.5°	360.8	336.4	278.4	212.0	151.0	109.5	86.5	75.2	69.7	67.5	67.5
100°	352.1	329.1	273.3	209.8	151.4	111.3	89.0	78.1	72.6	70.4	70.4
102.5°	343.3	321.1	268.5	208.0	152.1	113.8	92.3	81.4	75.9	73.7	73.3
105°	333.8	313.0	263.0	205.4	152.9	116.0	95.2	84.3	78.8	76.6	76.6
107.5°	324.3	304.6	257.6	203.6	153.6	118.2	98.5	87.6	82.1	79.5	79.5
110°	313.8	295.5	251.7	201.4	154.3	120.8	101.1	90.5	84.6	82.5	82.1

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

Scaled Data Report

REPORT NUMBER: P1045892
CATALOG NUMBER: FFX-CLB-30-730-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	302.8	286.4	245.5	198.5	154.7	123.0	104.0	93.4	87.6	85.0	84.6
115°	291.1	276.2	238.6	195.6	154.7	124.8	106.2	95.6	89.8	87.2	86.8
117.5°	279.5	265.2	230.9	191.5	154.3	125.9	108.0	97.0	91.2	88.7	88.3
120°	267.1	254.3	223.3	187.5	152.9	126.2	108.7	98.1	91.9	89.4	89.0
122.5°	254.3	242.6	214.2	182.1	150.7	125.9	108.7	98.1	91.9	89.0	88.7
125°	240.4	230.2	204.7	175.5	147.4	124.4	108.0	97.4	91.2	88.3	87.6
127.5°	226.9	217.8	194.8	168.9	143.4	122.2	106.5	96.0	89.8	86.8	86.5
130°	213.8	204.7	184.6	161.6	138.6	119.3	104.0	93.8	87.9	84.6	84.3
132.5°	199.9	191.5	174.4	154.0	133.2	115.7	101.4	91.6	85.4	82.8	82.1
135°	186.1	179.5	163.8	145.9	127.7	111.6	98.5	89.0	83.2	80.3	80.3
137.5°	173.7	167.1	153.2	137.9	121.9	106.9	94.9	86.1	80.6	78.1	77.7
140°	160.9	155.8	143.4	129.9	115.7	102.5	91.9	83.5	78.4	75.9	75.5
142.5°	148.9	143.7	133.9	121.5	109.5	97.8	88.3	80.6	75.9	73.7	73.3
145°	136.8	133.2	123.7	113.8	103.2	93.0	84.3	77.7	73.7	71.5	71.5
147.5°	126.2	123.0	114.6	106.2	97.0	88.7	81.0	75.2	71.5	69.7	69.3
150°	116.0	113.1	106.2	99.2	90.8	83.9	77.3	72.6	69.3	67.9	67.5
152.5°	106.5	104.3	98.5	92.7	85.7	79.5	74.4	70.4	67.5	66.0	66.0
155°	98.5	96.7	91.6	86.5	81.0	75.9	71.5	68.2	66.0	64.9	64.6
157.5°	91.6	89.4	85.4	81.4	77.0	72.6	69.3	66.4	64.9	63.8	63.8
160°	85.0	83.2	79.9	77.0	73.3	70.0	67.1	65.3	63.8	63.1	63.1
162.5°	79.5	78.1	75.5	73.0	70.4	67.9	65.7	64.2	63.1	62.4	62.4
165°	74.8	74.1	71.9	70.0	67.9	66.0	64.6	63.5	62.8	62.4	62.4
167.5°	71.1	70.4	69.0	67.5	66.0	64.6	63.5	62.8	62.4	62.0	62.0
170°	68.2	67.5	66.8	65.7	64.6	63.5	62.8	62.4	62.0	62.0	62.0
172.5°	66.0	65.3	64.9	64.2	63.5	62.8	62.4	62.0	62.0	62.0	62.0
175°	64.2	63.8	63.5	63.1	62.8	62.4	62.0	62.0	62.0	62.0	62.0
177.5°	63.1	62.8	62.8	62.4	62.4	62.0	62.0	62.4	62.4	62.4	62.8
180°	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

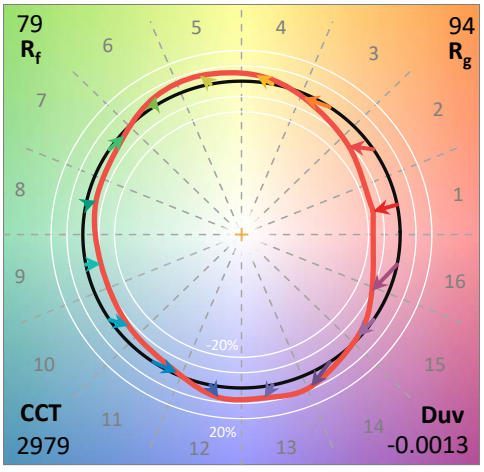
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

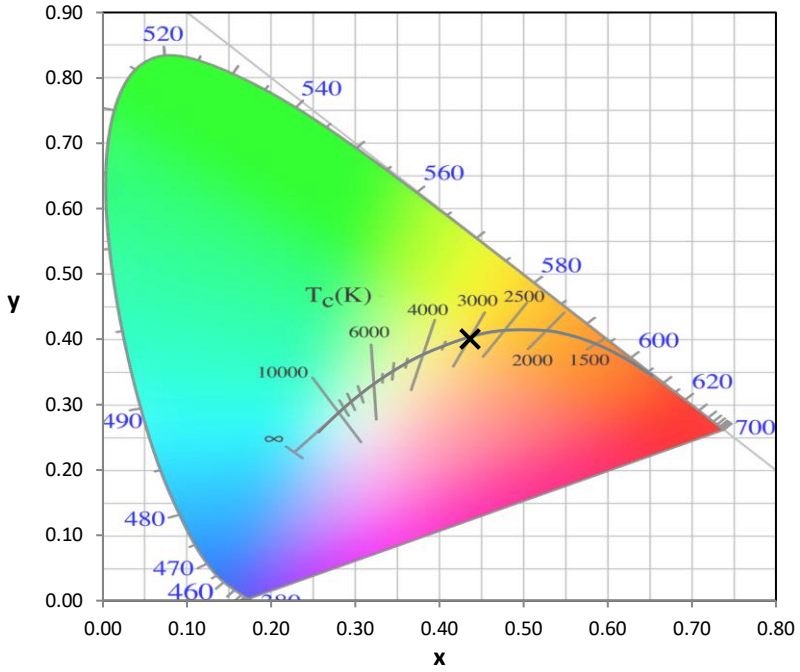
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

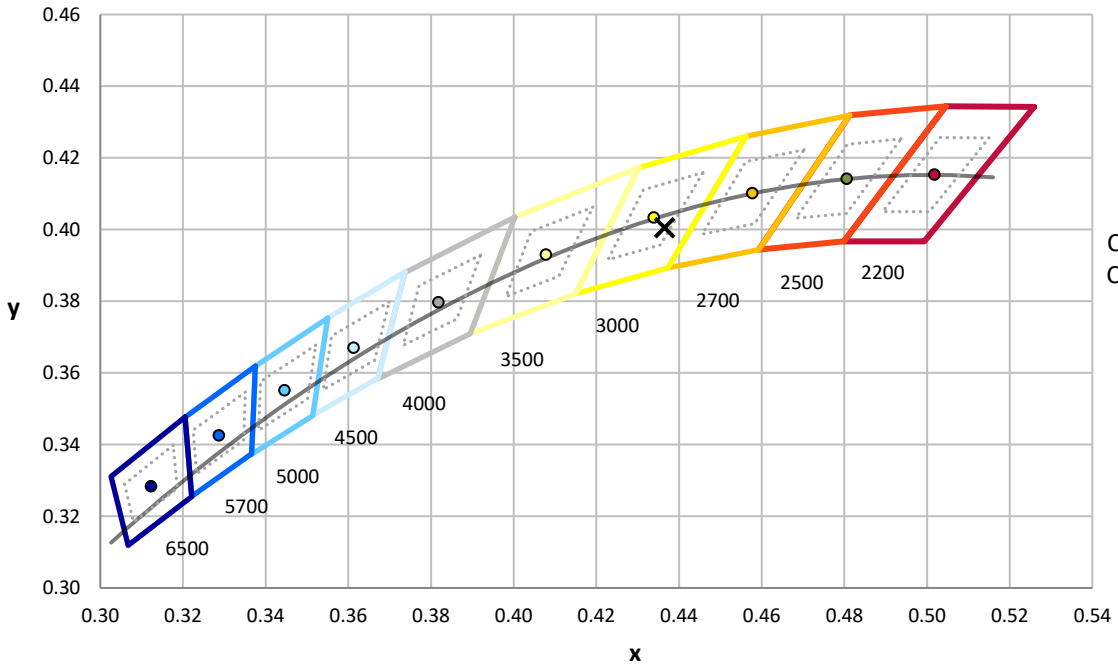
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

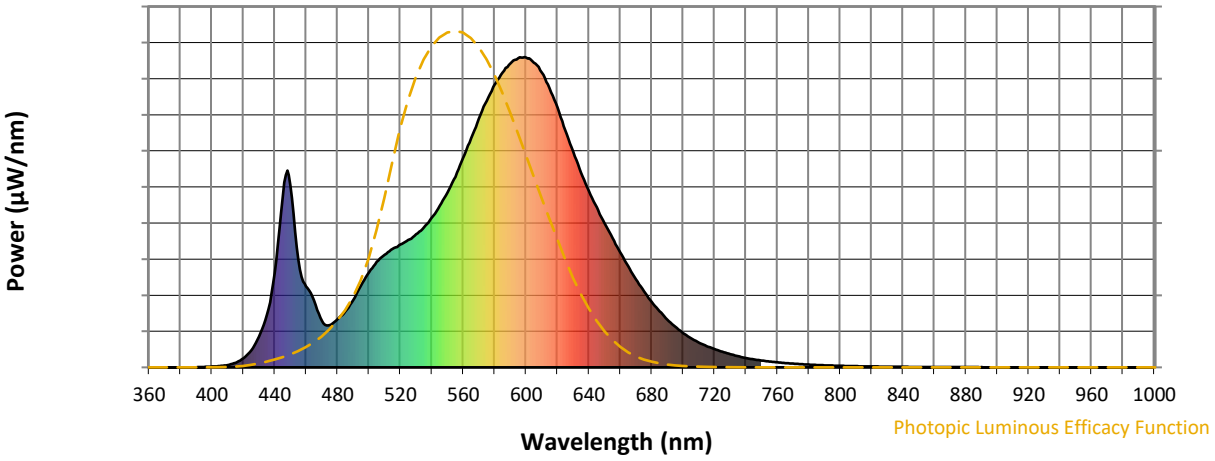


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

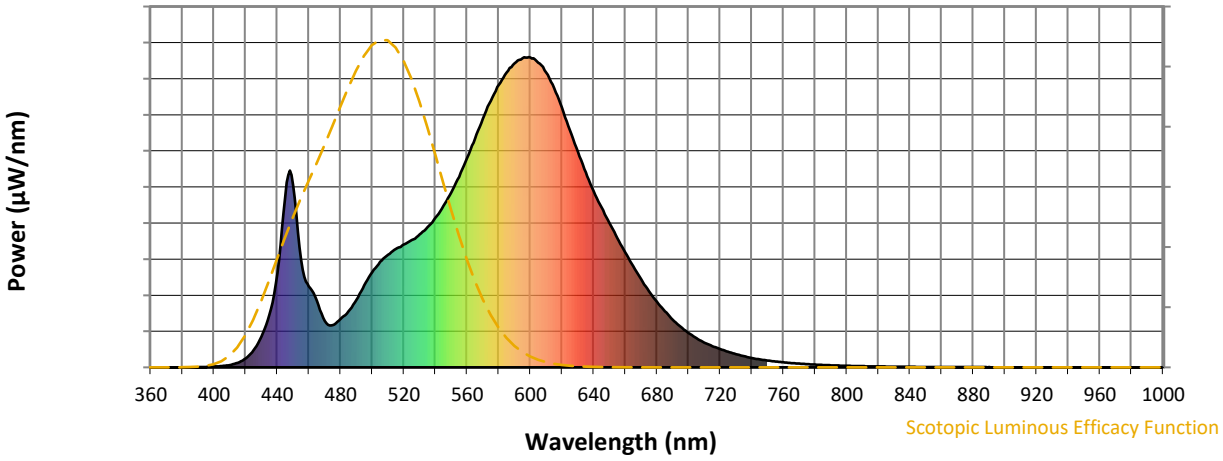


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

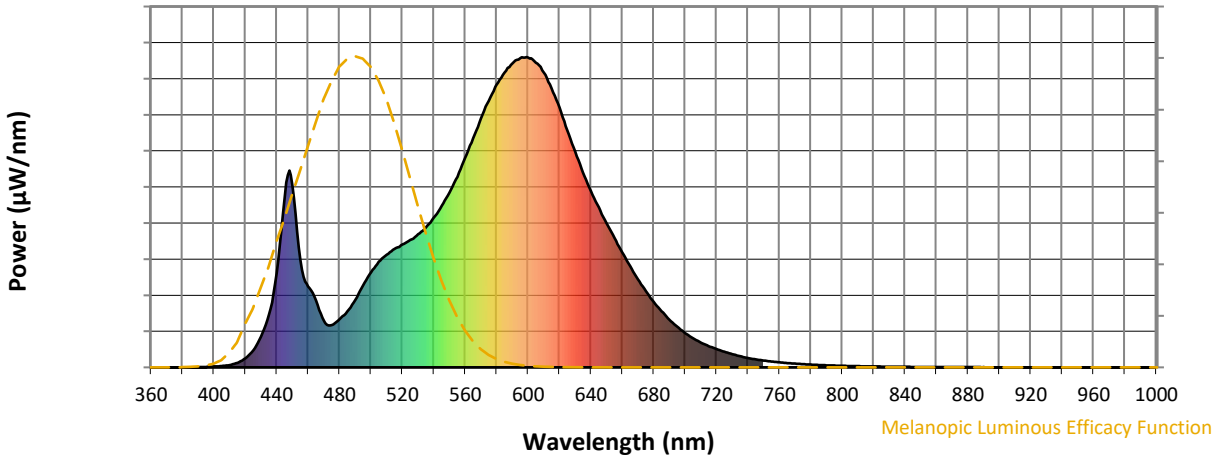


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

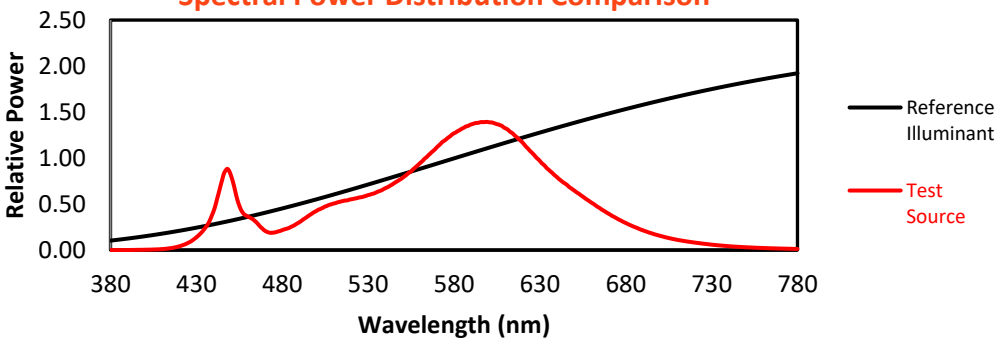
REPORT NUMBER: SP1-2501-332-9

TM-30-18

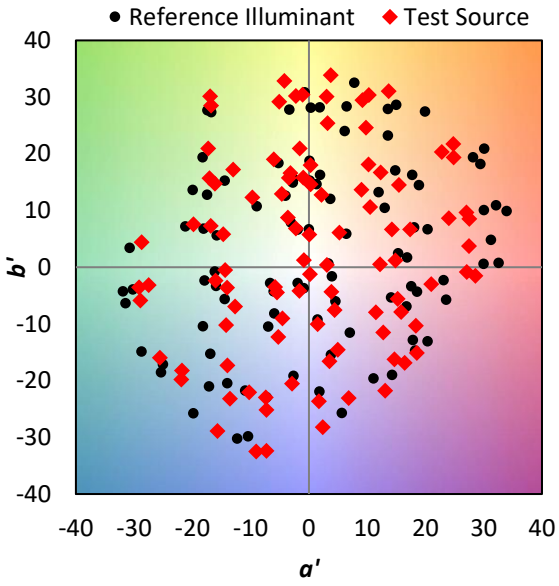
Summary

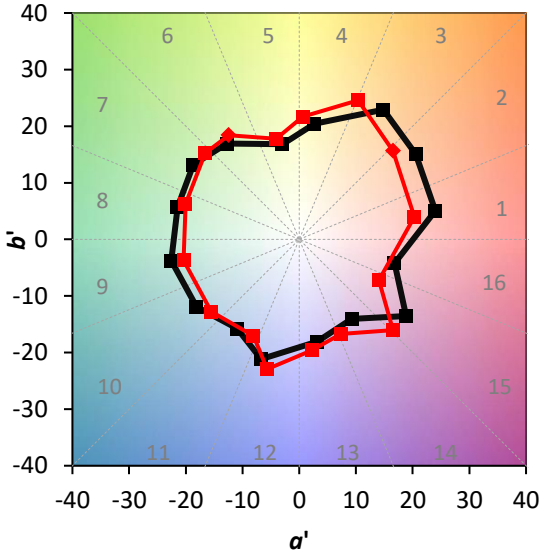
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

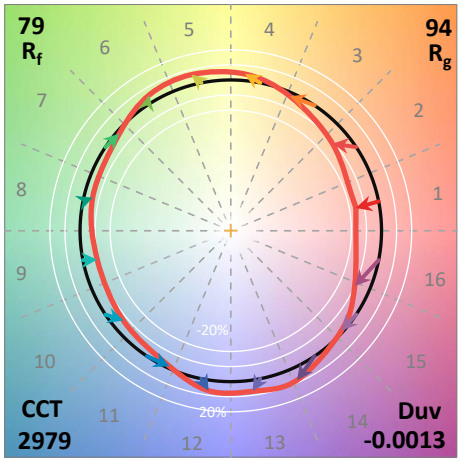
Spectral Power Distribution Comparison

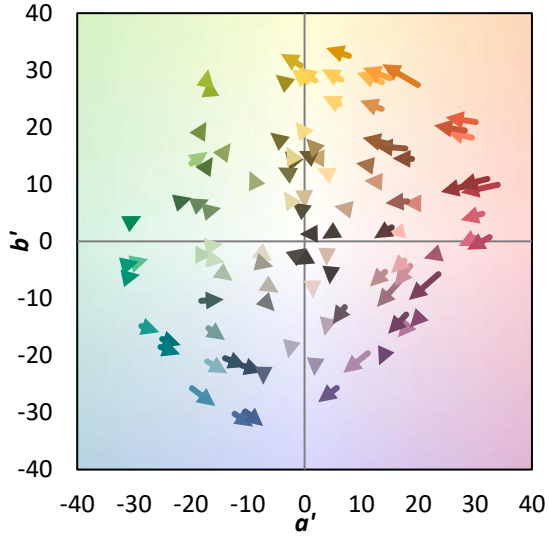


Color Vector Graphics







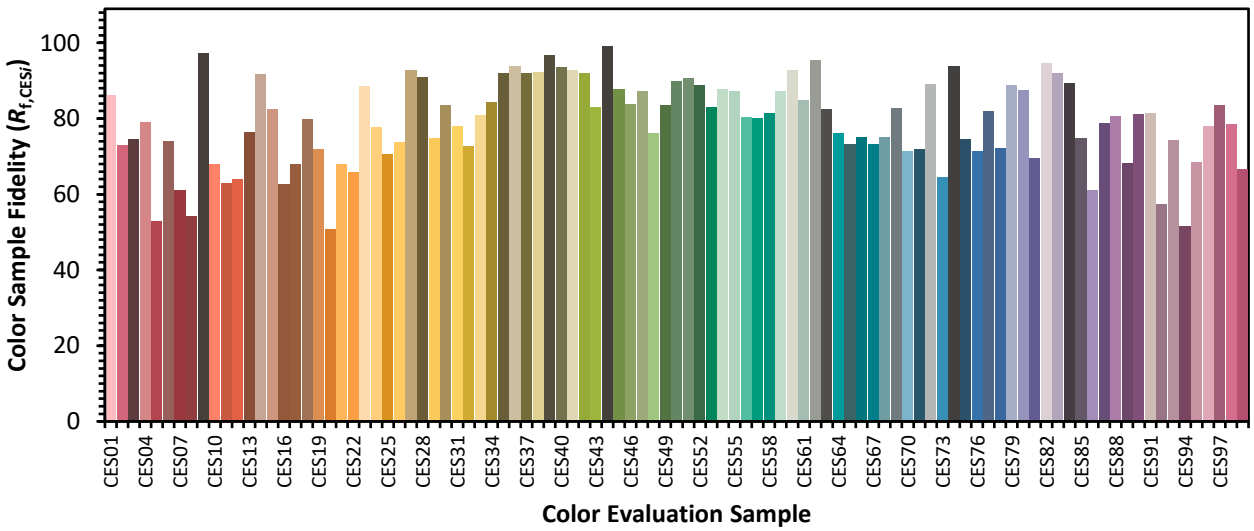


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

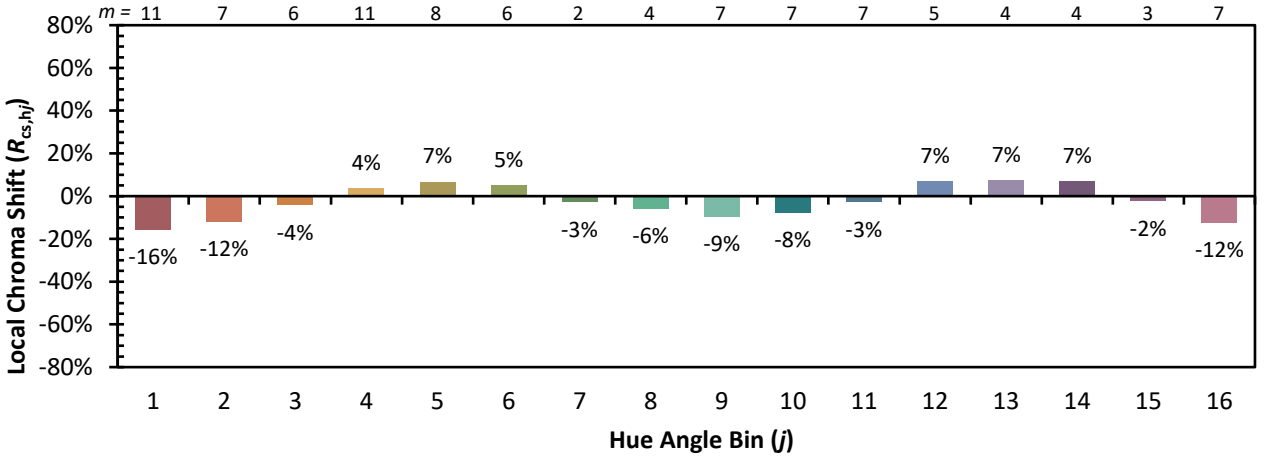
CES01 = 86	CES26 = 74	CES51 = 91	CES76 = 71
CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
CES25 = 72	CES50 = 90	CES75 = 75	

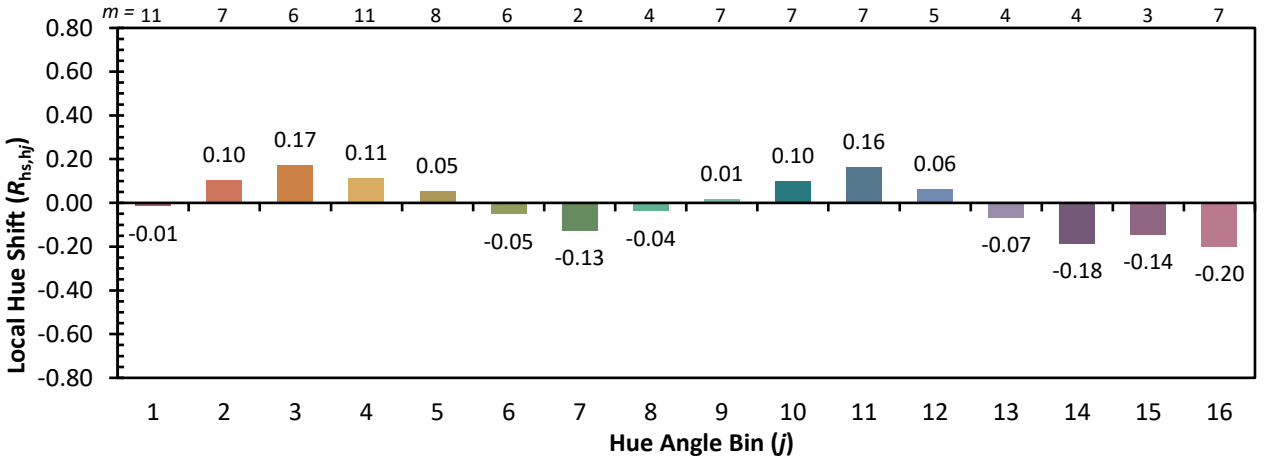


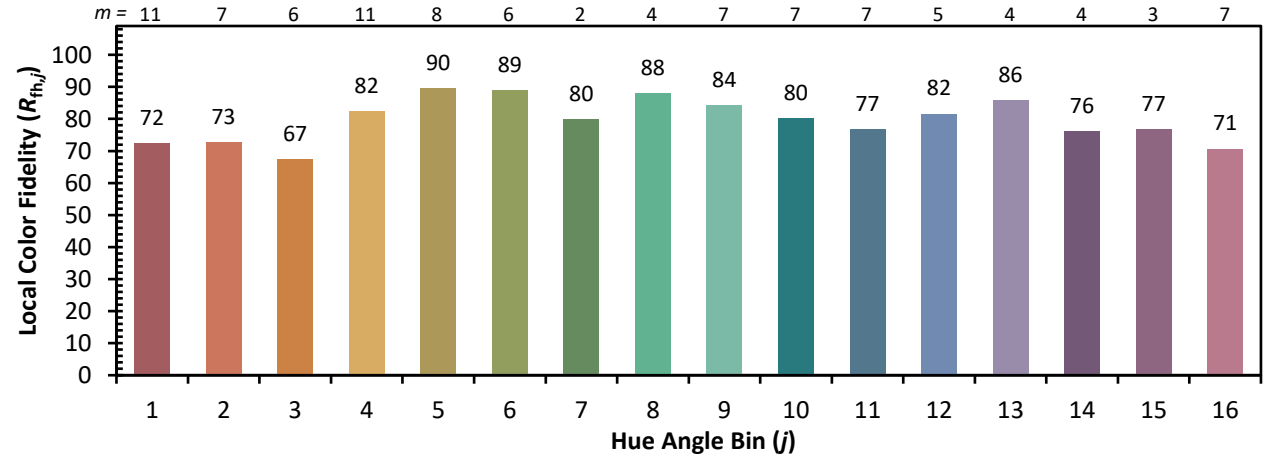
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Color Rendition by Hue-Angle Bin



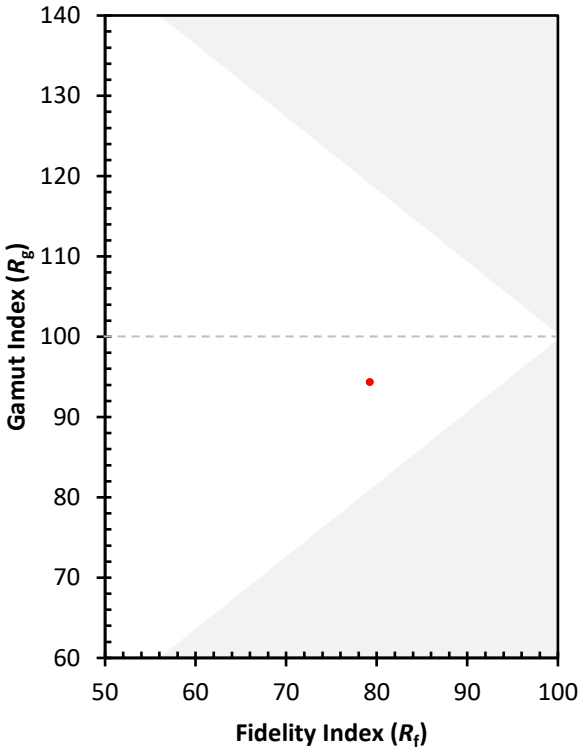


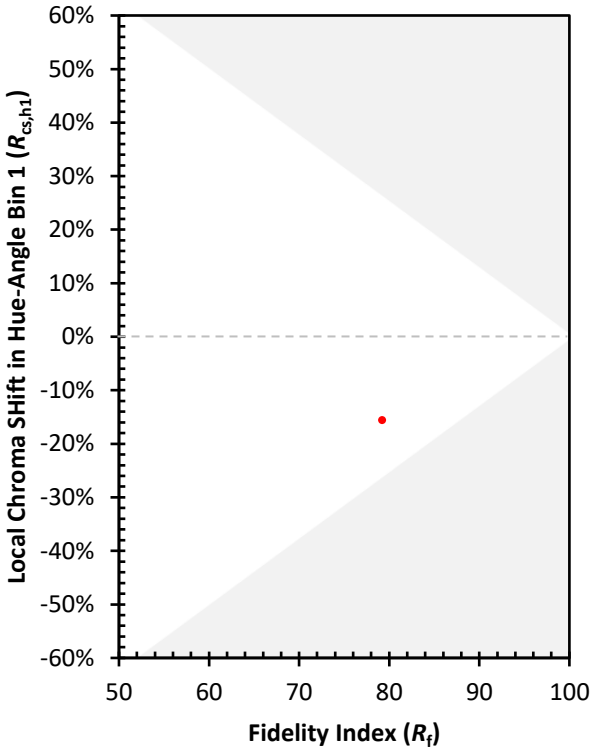


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Measure Comparisons





(END OF REPORT)