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: P1224021

Luminaire Tested: **FFX-CLB-20-722-U-VM8-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1224021
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2408.8 lumens
Efficiency:	N/A
Efficacy:	121.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B0 - 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

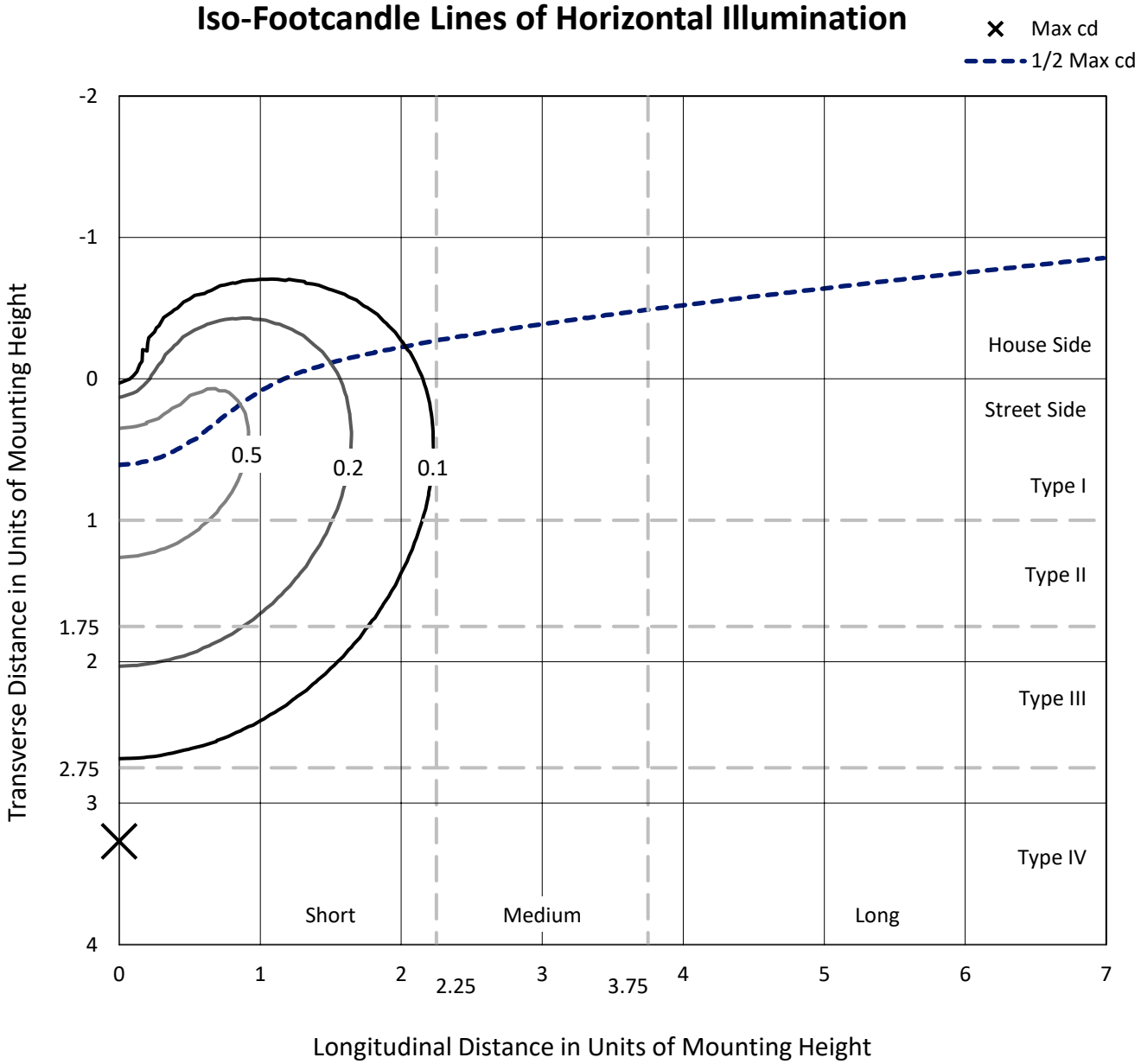


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Iso-Footcandle Lines of Horizontal Illumination



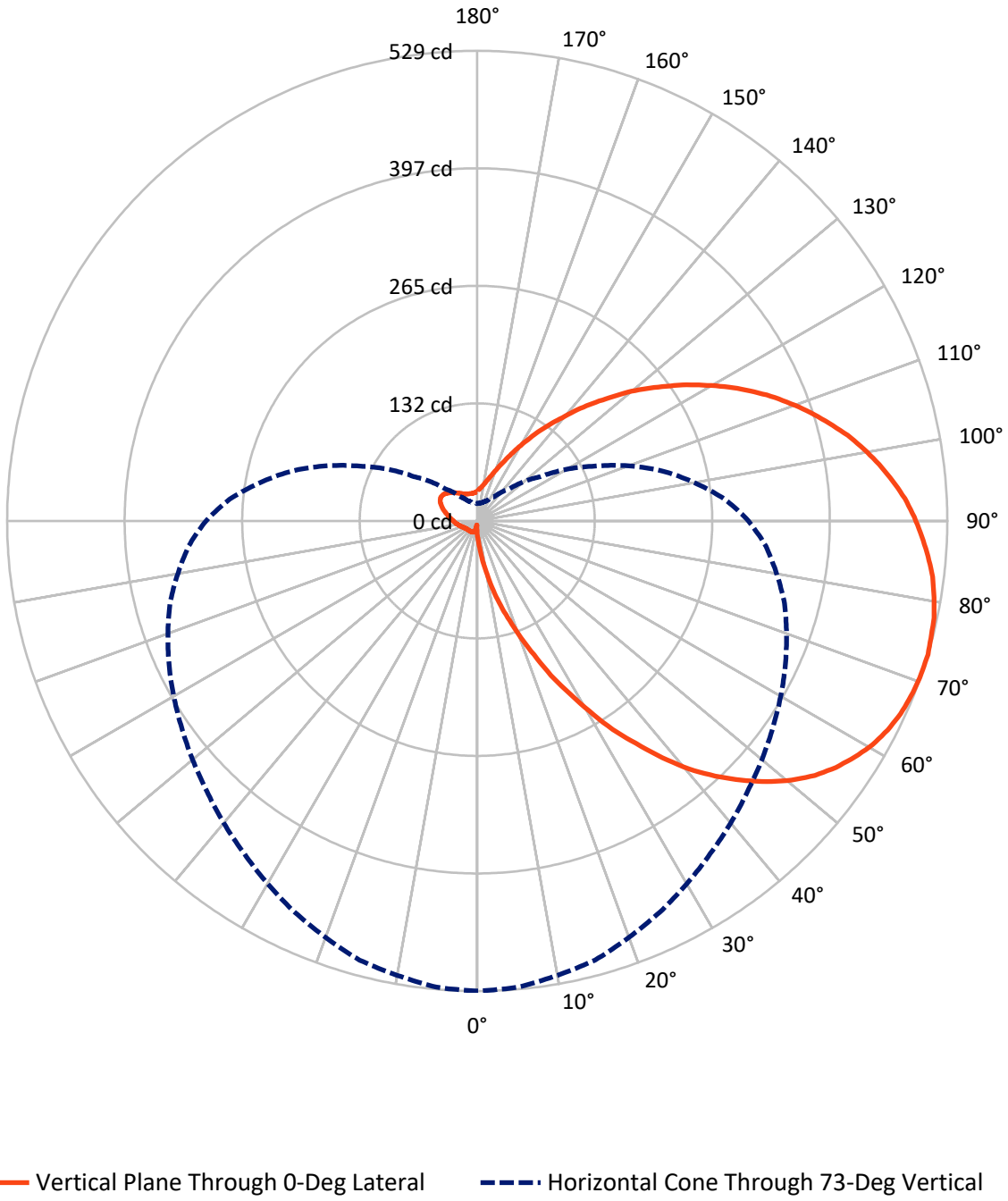
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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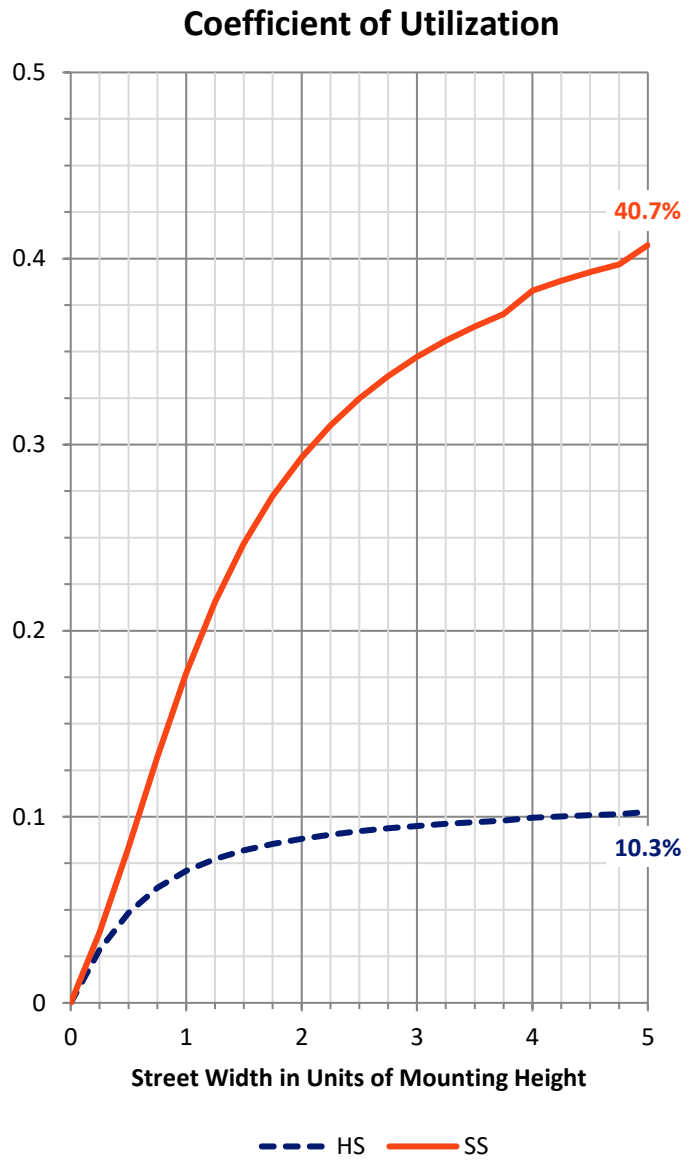
REPORT NUMBER: P1224021
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	266.8	262.2	529.0
	% Fixture	11.1	10.9	22.0
Street Side	Lumens	1124.9	754.9	1879.8
	% Fixture	46.7	31.3	78.0
Total	Lumens	1391.7	1017.1	2408.8
	% Fixture	57.8	42.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.1
10°-20°	17.1	0.7
20°-30°	51.6	2.1
30°-40°	107.4	4.5
40°-50°	170.3	7.1
50°-60°	223.6	9.3
60°-70°	260.6	10.8
70°-80°	279.3	11.6
80°-90°	279.5	11.6
90°-100°	262.1	10.9
100°-110°	230.6	9.6
110°-120°	190.4	7.9
120°-130°	143.3	5.9
130°-140°	94.6	3.9
140°-150°	54.2	2.3
150°-160°	26.9	1.1
160°-170°	11.7	0.5
170°-180°	3.3	0.1
0°-90°	1391.7	57.8
0°-180°	2408.8	100.0



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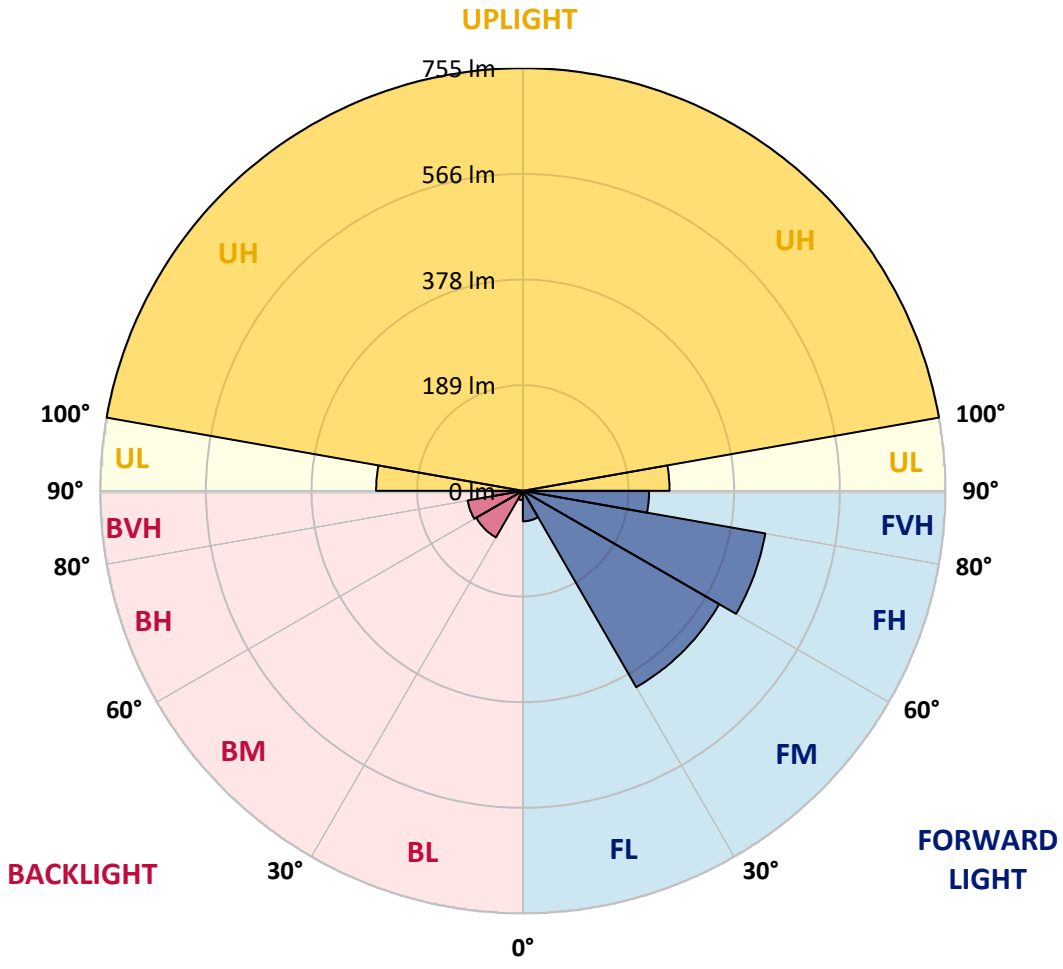
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	54.5	2.3			
FM	(30°-60°)	405.2	16.8			
FH	(60°-80°)	439.8	18.3			G0/660
FVH	(80°-90°)	225.5	9.4			G3/500
BL	(0°-30°)	16.6	0.7	B0/110		
BM	(30°-60°)	96.1	4.0	B0/220		
BH	(60°-80°)	100.1	4.2	B0/110		G0/110
BVH	(80°-90°)	54.0	2.2			G1/100
UL	(90°-100°)	262.1	10.9		U3/500	
UH	(100°-180°)	755.0	31.3		U4/1000	

BUG Rating: B0-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
2.5°	21.7	21.9	21.7	22.1	21.2	21.2	20.6	19.9	19.1	18.1	17.5
5°	32.3	32.1	32.1	32.3	31.8	30.3	28.6	26.3	24.4	22.2	21.1
7.5°	46.4	45.8	45.1	44.9	43.3	41.2	38.9	36.2	33.4	30.5	28.3
10°	61.2	61.7	61.1	59.3	57.3	54.8	51.9	48.2	44.6	40.5	38.0
12.5°	80.3	79.0	77.4	75.6	73.6	71.3	66.5	62.4	57.3	52.2	48.9
15°	98.9	97.8	97.8	95.5	92.4	88.9	84.5	79.4	72.3	64.2	61.2
17.5°	118.0	118.2	116.6	113.9	111.1	106.7	101.9	94.7	87.4	79.0	73.9
20°	140.4	139.8	138.6	136.6	131.7	127.8	121.8	113.8	103.9	93.7	87.4
22.5°	163.6	164.0	164.0	160.8	156.2	150.8	144.1	134.8	123.1	110.0	102.4
25°	192.6	192.5	189.3	185.7	182.1	176.5	167.9	156.7	143.9	128.1	119.2
27.5°	219.0	218.8	218.1	214.9	209.4	202.2	192.1	179.9	165.3	146.4	135.8
30°	248.3	248.9	247.1	244.3	237.2	229.8	218.1	203.8	186.5	166.1	154.3
32.5°	280.0	278.7	277.2	273.6	265.9	255.5	242.3	227.5	208.6	185.2	172.2
35°	307.5	310.0	307.7	302.1	292.6	281.5	267.0	250.4	229.8	204.8	190.0
37.5°	338.5	338.0	334.5	329.1	319.9	305.9	290.6	271.3	248.3	222.3	205.8
40°	367.3	365.3	363.4	355.3	343.6	329.6	310.7	291.1	267.4	238.1	221.4
42.5°	392.8	392.7	387.4	379.3	364.7	349.2	329.6	307.7	283.0	252.7	233.9
45°	416.4	415.9	410.8	398.7	384.9	366.3	345.9	323.2	297.2	265.2	247.3
47.5°	438.6	437.3	430.2	418.0	400.6	381.0	359.9	336.0	309.2	276.4	257.7
50°	458.8	457.7	449.5	434.0	415.4	394.5	371.4	346.7	320.5	287.6	267.4
52.5°	476.1	474.2	464.6	448.0	426.7	404.7	380.6	355.9	329.4	295.5	275.9
55°	490.0	487.8	477.6	459.0	436.8	412.9	388.5	364.0	336.4	302.6	282.5
57.5°	501.5	499.8	488.6	468.2	444.5	420.0	395.3	370.3	342.8	309.2	288.3
60°	511.5	509.5	496.9	475.8	450.8	425.4	400.2	375.2	348.2	314.3	293.5
62.5°	518.6	517.1	503.8	481.2	455.2	429.5	403.5	379.3	352.3	318.9	297.5
65°	523.7	521.9	508.4	484.5	458.0	431.5	406.0	381.1	355.0	321.7	300.5
67.5°	526.7	525.4	511.2	486.8	459.2	432.5	407.1	382.9	357.1	324.0	302.8
70°	528.6	526.7	512.3	487.3	458.8	432.3	407.1	383.1	358.2	325.7	304.1
72.5°	529.1	527.0	512.2	486.5	457.9	430.7	406.3	383.3	358.6	326.5	305.4
73°	529.3	527.0	512.0	486.2	457.4	430.5	406.2	382.9	358.2	326.3	305.4
75°	527.5	526.0	510.7	484.2	455.7	428.9	405.0	382.1	358.2	326.5	305.2
77.5°	525.7	523.4	507.4	481.4	451.9	425.9	402.5	380.5	357.1	326.1	305.1
80°	521.4	519.1	503.1	476.1	447.2	421.6	399.1	377.8	355.0	324.3	303.8
82.5°	516.5	513.8	497.2	470.0	441.4	416.2	394.6	374.4	352.2	322.2	301.8
85°	509.2	507.2	490.3	462.6	434.8	410.6	389.5	370.3	348.5	318.9	298.8
87.5°	500.8	499.2	481.6	454.2	426.4	403.4	383.6	364.8	344.4	315.3	295.5
90°	492.1	490.1	472.5	444.7	418.2	395.5	376.7	359.1	339.3	310.8	291.2
92.5°	482.1	479.8	462.0	435.0	409.1	387.4	369.9	352.7	333.6	305.7	286.8
95°	469.9	467.7	450.1	423.1	397.8	378.0	361.0	345.1	326.8	299.6	281.4
97.5°	456.9	454.9	437.1	411.3	386.7	367.3	351.5	337.0	319.6	293.7	275.3
100°	442.9	440.2	422.6	397.8	373.6	355.9	341.8	328.8	311.7	286.3	268.7
102.5°	428.1	425.6	408.8	384.4	361.7	344.6	331.7	319.1	303.4	279.6	262.3
105°	411.3	409.9	393.0	369.4	348.2	332.4	320.4	309.4	294.5	271.3	255.5
107.5°	394.6	392.0	376.2	353.6	333.7	319.4	309.0	298.8	285.3	263.1	248.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*377.0*	374.4	360.2	338.7	320.2	306.6	297.0	287.9	275.8	255.0	240.9
112.5°	*359.2*	356.3	342.3	322.5	304.6	293.4	284.7	277.1	266.1	247.0	233.0
115°	*340.0*	338.8	325.2	306.2	290.4	279.9	272.3	265.4	255.0	238.2	225.4
117.5°	*321.0*	318.9	307.0	289.6	274.9	265.1	259.3	253.2	243.8	228.0	216.8
120°	*300.6*	300.1	288.8	272.5	258.8	251.1	245.5	240.4	232.1	217.8	207.3
122.5°	*281.4*	280.4	269.5	254.9	243.5	236.3	231.8	227.4	220.3	206.9	197.1
125°	*260.9*	259.8	251.2	239.2	228.4	221.4	217.2	213.7	207.3	195.3	186.0
127.5°	*242.0*	240.9	233.1	221.6	213.0	206.8	202.8	199.7	193.3	182.9	174.8
130°	*223.2*	221.3	214.5	205.3	196.7	192.5	188.5	186.2	179.6	169.9	162.8
132.5°	*203.2*	202.2	197.4	188.8	181.9	177.5	174.0	171.1	166.0	157.1	150.6
135°	*185.4*	184.4	179.9	172.7	167.9	163.8	160.7	157.6	152.3	143.7	138.3
137.5°	*168.4*	167.6	163.6	158.7	152.6	150.1	148.0	144.2	139.6	131.9	126.9
140°	*150.6*	151.0	147.8	143.4	139.6	136.6	134.5	131.4	126.8	120.2	115.2
142.5°	*136.0*	136.5	132.7	129.6	126.1	123.8	121.7	119.0	114.6	108.7	104.9
145°	*122.2*	121.0	119.5	116.6	113.3	111.8	109.6	107.3	103.9	98.0	94.8
147.5°	*108.2*	107.8	106.4	104.4	101.7	99.4	97.8	96.5	93.0	88.1	85.3
150°	*95.5*	95.2	94.3	92.9	90.6	89.1	87.8	85.9	82.6	78.9	76.4
152.5°	*84.3*	84.3	83.8	81.8	80.8	79.2	77.5	76.6	73.3	70.1	68.0
155°	*74.6*	74.6	73.9	72.9	71.1	70.1	69.1	67.7	65.4	62.9	60.9
157.5°	*66.2*	66.3	65.5	64.7	63.4	62.6	61.6	60.1	58.6	56.3	54.8
160°	*58.8*	58.9	58.6	58.0	56.6	55.8	55.0	53.8	52.5	50.7	49.4
162.5°	*52.8*	52.7	52.4	51.7	50.9	50.4	49.4	48.6	47.4	46.1	44.9
165°	*48.2*	47.7	47.6	47.1	46.3	45.8	44.9	44.3	43.5	42.1	41.7
167.5°	*44.1*	44.1	43.8	43.5	42.8	42.1	41.5	41.0	40.3	39.5	38.9
170°	*40.8*	40.8	40.5	40.2	39.5	39.2	38.7	38.2	37.7	37.0	36.7
172.5°	*38.2*	38.2	38.0	37.5	37.2	36.7	36.5	36.1	35.6	35.2	34.9
175°	*36.2*	36.2	35.9	35.6	35.2	34.9	34.6	34.4	34.2	33.9	33.8
177.5°	*34.7*	34.6	34.4	34.1	33.8	33.6	33.4	33.3	33.3	33.1	32.9
180°	*32.8*	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
2.5°	16.8	15.3	13.7	12.2	11.4	10.2	9.5	9.2	9.5	9.1
5°	19.9	17.3	14.7	12.7	10.5	8.9	7.4	5.9	4.9	4.8
7.5°	26.5	23.5	19.9	16.6	13.7	11.0	8.7	6.9	5.6	5.4
10°	35.1	30.6	26.0	21.4	17.1	13.7	10.9	8.9	8.2	8.1
12.5°	45.8	39.3	32.9	26.8	21.6	17.0	13.8	11.7	10.7	10.5
15°	57.0	48.9	40.7	32.8	25.7	20.1	16.1	13.8	12.7	12.5
17.5°	69.0	58.4	47.3	38.0	29.6	22.9	17.9	14.8	13.5	13.2
20°	81.2	68.0	55.2	43.1	32.9	24.7	18.9	15.3	13.7	13.3
22.5°	94.8	79.0	63.1	48.1	35.9	26.5	19.8	15.6	13.8	13.5
25°	110.3	90.2	71.3	53.8	39.2	28.2	20.6	16.1	14.0	13.7
27.5°	126.1	102.7	79.7	58.9	42.0	29.3	21.2	16.3	14.2	13.8
30°	142.1	115.2	88.2	63.9	44.5	30.6	21.6	16.5	14.2	14.0
32.5°	158.7	126.9	96.5	68.5	46.6	31.4	21.9	16.6	14.3	14.0
35°	173.7	139.3	104.2	72.9	48.6	32.1	22.1	16.6	14.3	14.0
37.5°	188.0	149.8	111.3	76.6	50.0	32.6	22.2	16.6	14.3	14.0
40°	203.0	161.0	117.7	79.8	51.2	32.9	22.2	16.6	14.3	14.2
42.5°	215.2	170.4	123.1	82.2	52.0	32.9	22.2	16.6	14.5	14.2
45°	226.2	178.1	128.4	84.3	52.5	32.9	22.1	16.8	14.5	14.3
47.5°	235.8	185.9	132.4	85.8	52.7	32.9	22.1	16.8	14.7	14.5
50°	244.6	192.1	135.8	86.9	52.8	32.8	22.1	17.0	14.8	14.5
52.5°	252.2	197.2	138.6	87.6	52.5	32.4	22.1	17.1	15.1	14.8
55°	258.6	202.0	140.6	87.9	52.2	32.3	22.1	17.3	15.3	15.1
57.5°	263.9	205.8	142.4	88.1	51.9	32.1	22.2	17.6	15.8	15.6
60°	268.7	208.9	143.7	88.1	51.5	31.9	22.4	17.9	16.1	16.0
62.5°	272.5	211.4	144.7	87.9	51.4	31.9	22.7	18.4	16.6	16.5
65°	275.1	213.2	145.2	87.6	51.0	32.1	23.0	18.9	17.3	17.1
67.5°	277.6	214.9	145.5	87.4	50.9	32.3	23.5	19.6	17.9	17.8
70°	279.1	215.8	145.7	87.3	50.7	32.6	24.0	20.3	18.8	18.6
72.5°	279.7	216.5	145.9	86.9	50.9	32.9	24.7	20.9	19.6	19.4
73°	*279.9*	*216.5*	*145.7*	*86.9*	*50.9*	*33.1*	*24.9*	*21.2*	*19.8*	*19.6*
75°	280.2	216.5	145.5	86.8	51.0	33.4	25.4	21.9	20.4	20.4
77.5°	279.7	216.2	145.2	86.6	51.2	34.1	26.2	22.7	21.4	21.2
80°	278.7	215.3	144.7	86.6	51.5	34.7	27.2	23.7	22.4	22.2
82.5°	276.6	213.9	144.1	86.4	52.0	35.6	28.2	24.7	23.5	23.4
85°	274.4	212.1	143.1	86.4	52.7	36.5	29.1	25.8	24.7	24.5
87.5°	271.2	209.9	142.1	86.3	53.3	37.4	30.1	27.0	25.7	25.7
90°	267.4	207.6	141.1	86.4	54.0	38.5	31.4	28.3	27.0	26.8
92.5°	263.6	205.0	139.9	86.8	55.2	39.7	32.8	29.6	28.3	28.0
95°	258.5	201.4	138.6	86.9	56.1	41.0	34.1	31.0	29.6	29.6
97.5°	253.2	198.1	137.1	87.4	57.5	42.6	35.9	32.6	31.3	31.3
100°	247.6	194.6	136.2	87.9	58.8	44.5	37.5	34.2	32.9	32.9
102.5°	241.7	190.8	135.2	88.9	60.8	46.3	39.5	36.2	34.7	34.7
105°	235.6	187.2	134.2	90.1	62.7	48.6	41.7	38.4	36.9	36.9
107.5°	229.7	183.7	133.4	91.5	64.9	50.9	43.8	40.5	39.0	38.7

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

Scaled Data Report

REPORT NUMBER: P1224021
CATALOG NUMBER: FFX-CLB-20-722-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	223.4	180.1	132.7	93.0	67.3	53.5	46.4	42.6	41.0	41.0
112.5°	216.7	176.3	132.2	94.5	70.0	56.1	48.7	44.9	43.3	43.0
115°	209.6	172.5	131.2	96.1	72.3	58.8	51.2	46.9	45.1	44.9
117.5°	202.7	168.1	130.1	97.3	74.4	60.9	53.2	48.9	46.9	46.8
120°	194.6	163.2	128.1	97.6	76.1	62.6	54.8	50.2	48.2	47.9
122.5°	185.7	156.7	125.3	97.3	76.9	63.7	55.8	51.2	48.9	48.7
125°	175.7	149.7	121.7	96.1	77.0	64.2	56.1	51.4	49.2	48.9
127.5°	165.1	142.6	116.9	93.8	76.1	63.9	55.8	51.0	48.7	48.6
130°	154.3	134.2	111.3	90.9	74.4	62.7	55.0	50.2	47.9	47.7
132.5°	143.4	125.3	105.2	86.9	72.1	60.9	53.5	48.9	46.8	46.4
135°	131.7	116.6	98.9	82.8	69.0	58.9	51.7	47.3	45.1	44.9
137.5°	121.0	107.5	92.5	78.2	66.0	56.3	49.7	45.6	43.8	43.5
140°	110.5	98.8	85.6	73.3	62.2	53.7	47.4	43.8	42.0	41.8
142.5°	100.8	90.7	79.5	68.5	58.8	51.0	45.4	42.0	40.5	40.2
145°	90.7	82.3	73.1	63.5	55.0	48.2	43.3	40.2	38.9	38.5
147.5°	82.0	74.6	66.7	58.6	51.5	45.4	41.2	38.5	37.4	37.2
150°	73.8	67.5	60.6	54.0	47.7	42.8	39.2	36.9	35.9	35.7
152.5°	66.3	60.9	55.3	49.7	44.5	40.5	37.4	35.4	34.6	34.6
155°	59.4	55.0	50.5	45.9	41.8	38.5	36.1	34.4	33.8	33.6
157.5°	53.5	50.0	46.4	42.6	39.5	36.7	34.7	33.6	32.9	32.9
160°	48.4	45.8	42.8	40.0	37.5	35.2	33.8	32.8	32.3	32.3
162.5°	44.3	42.1	39.8	37.7	35.6	34.1	32.9	32.3	31.9	31.9
165°	40.8	39.3	37.7	35.9	34.4	33.3	32.4	31.9	31.8	31.8
167.5°	38.4	37.0	35.7	34.6	33.6	32.6	32.1	31.8	31.8	31.6
170°	36.2	35.4	34.2	33.4	32.6	32.1	31.8	31.6	31.6	31.4
172.5°	34.6	33.9	33.3	32.6	32.1	31.8	31.6	31.6	31.6	31.6
175°	33.6	33.1	32.6	32.3	31.9	31.6	31.6	31.8	31.8	31.8
177.5°	32.8	32.6	32.3	32.1	31.9	31.9	31.9	32.1	32.3	32.3
180°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

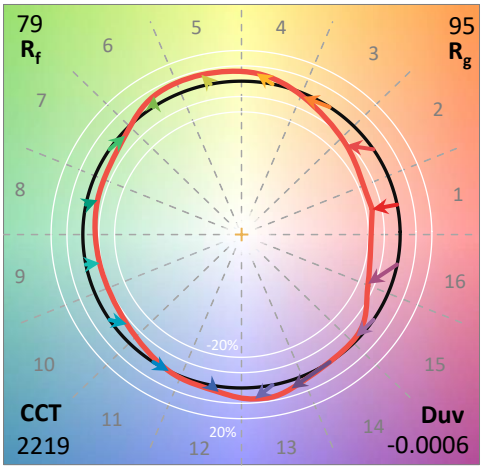
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
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-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

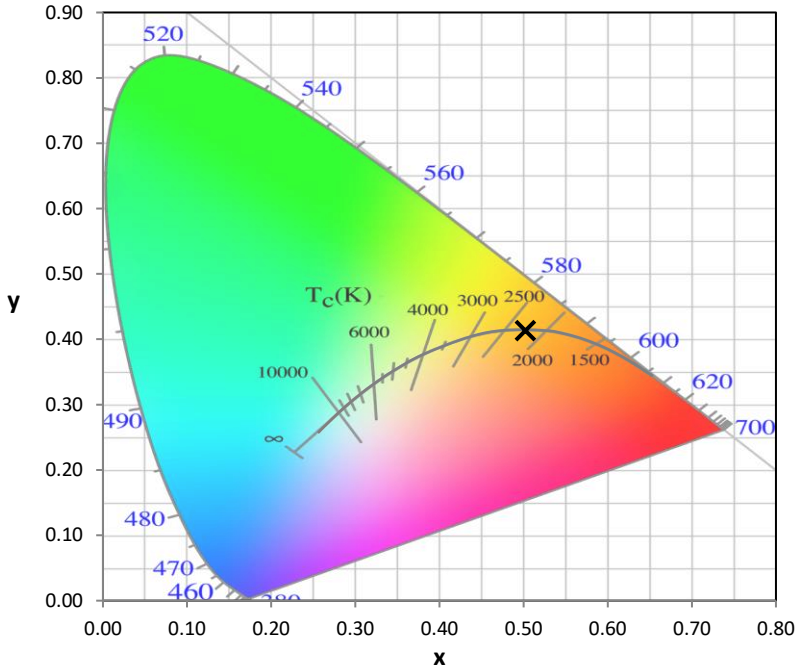
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

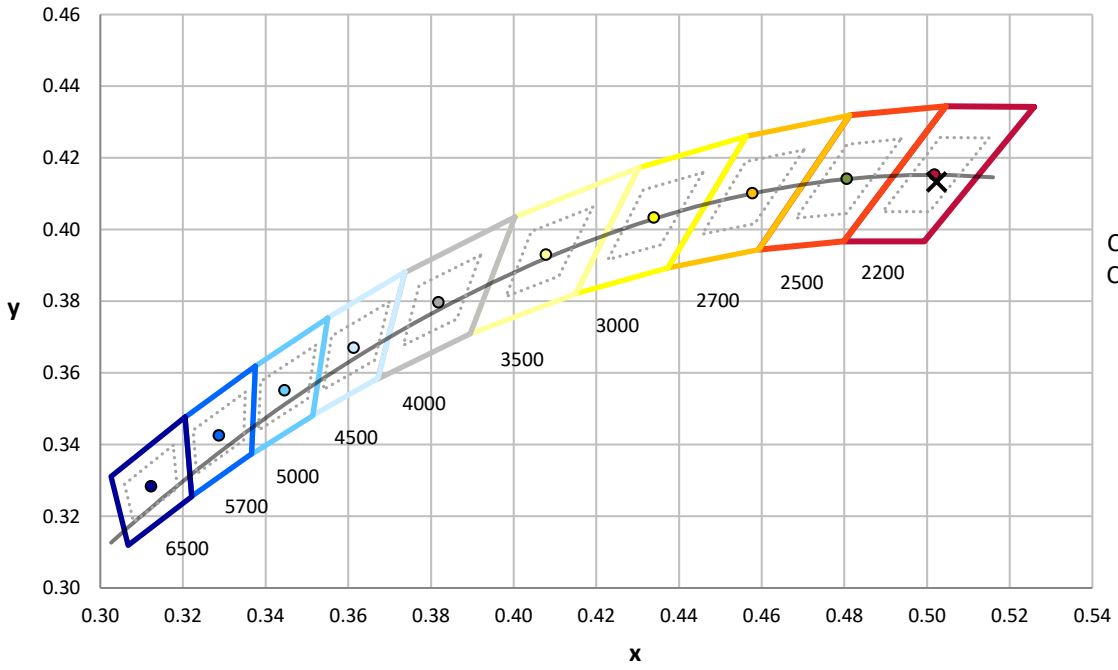
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

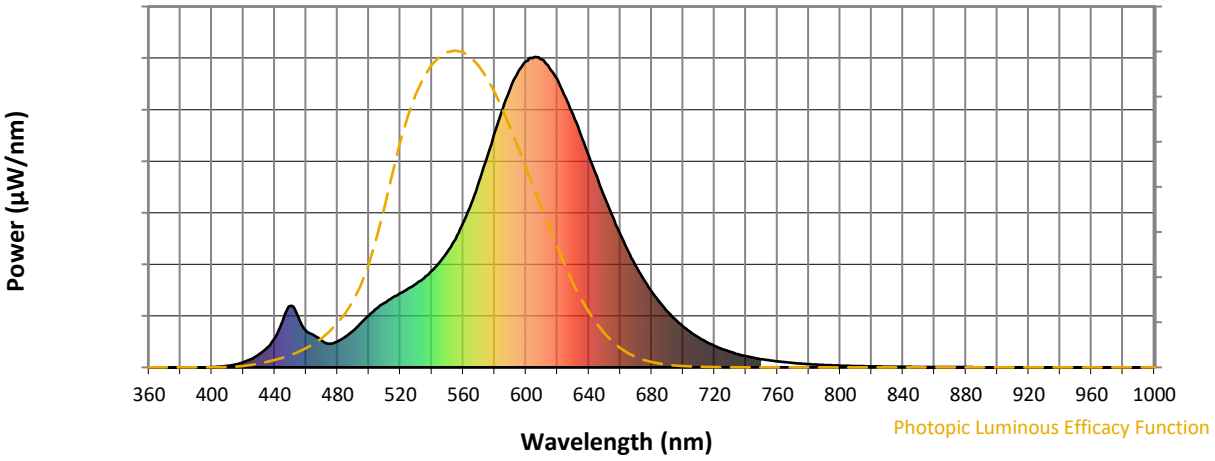


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

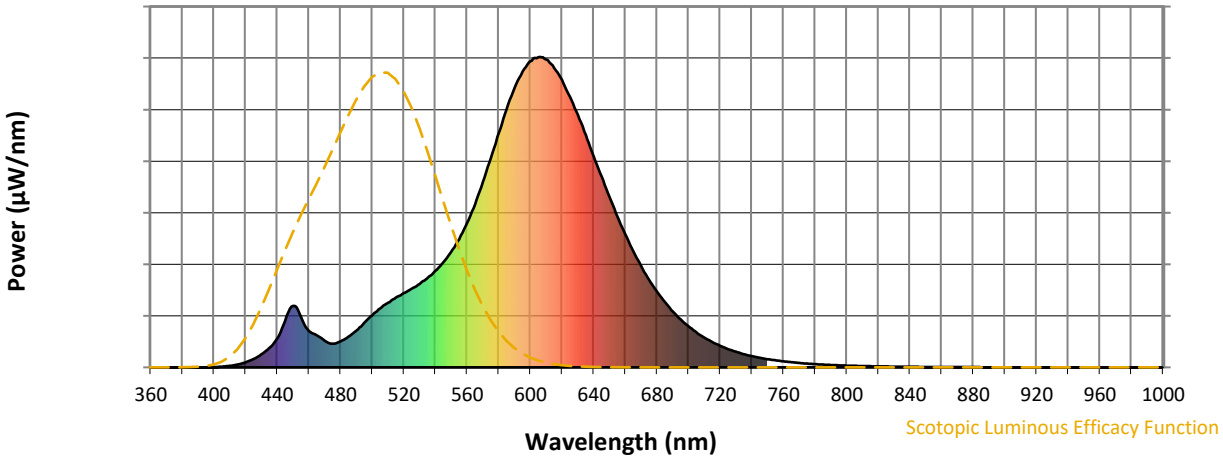


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

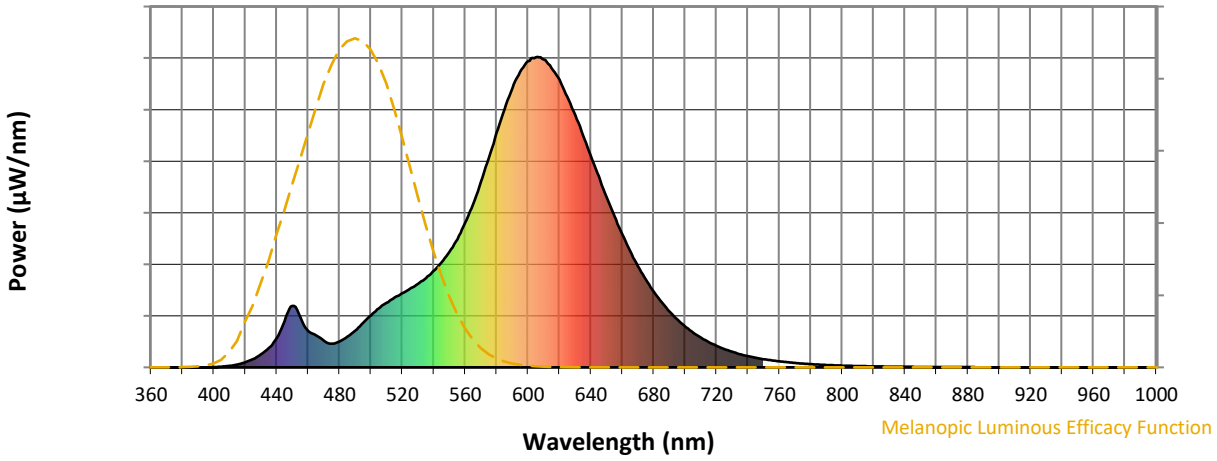


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

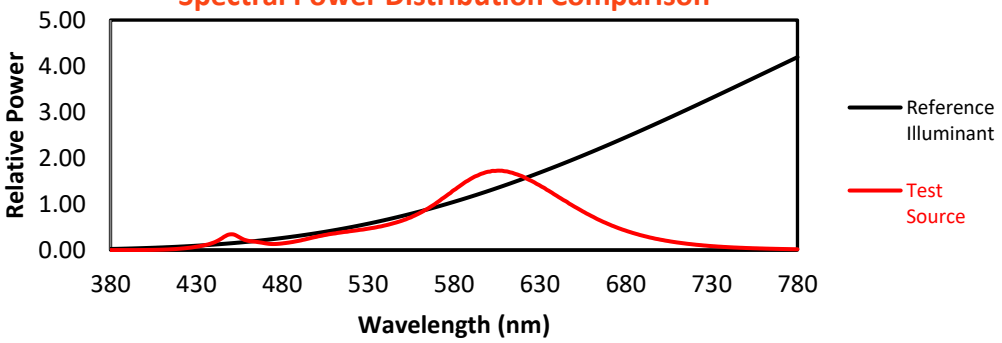
REPORT NUMBER: SP1-2501-332-2

TM-30-18

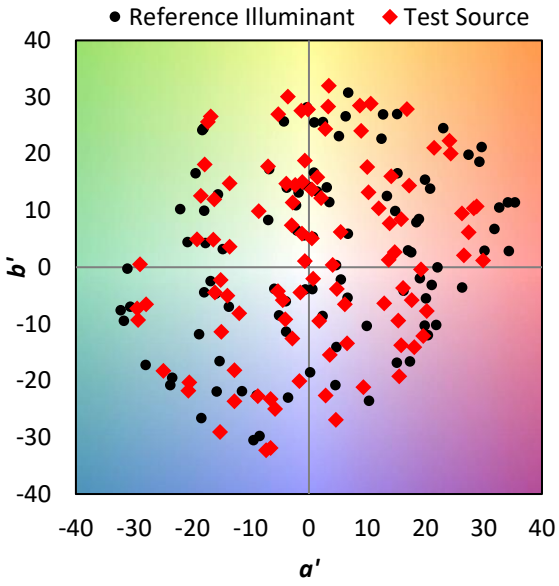
Summary

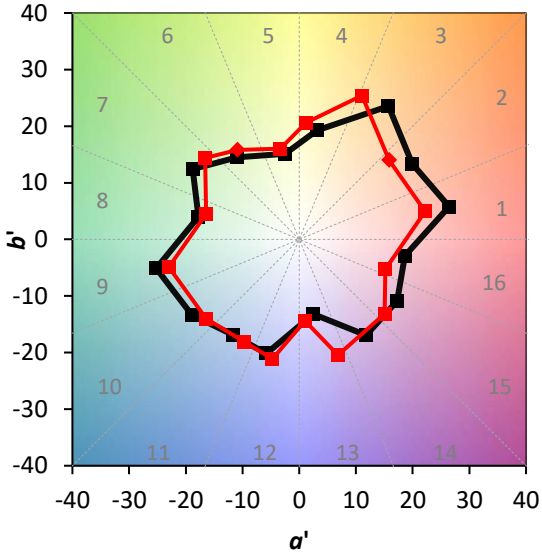
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

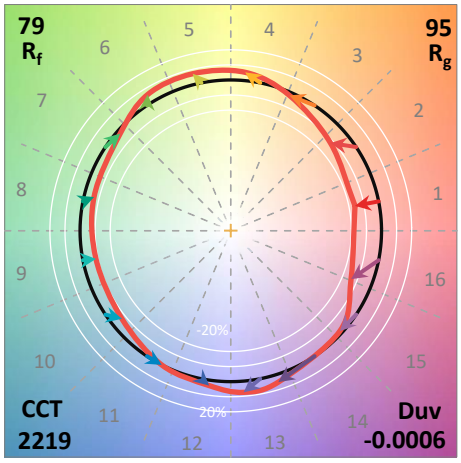
Spectral Power Distribution Comparison

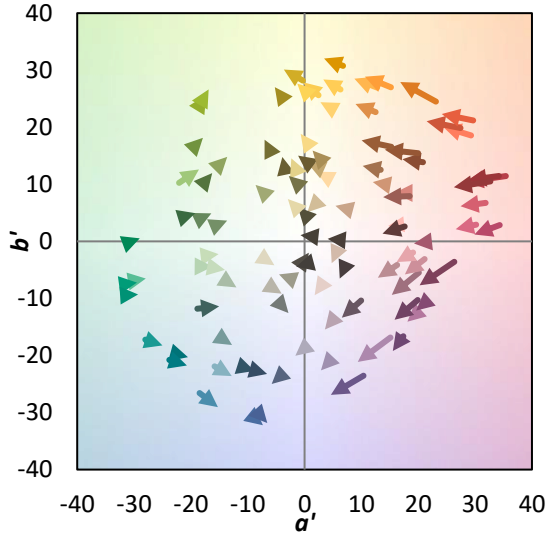


Color Vector Graphics







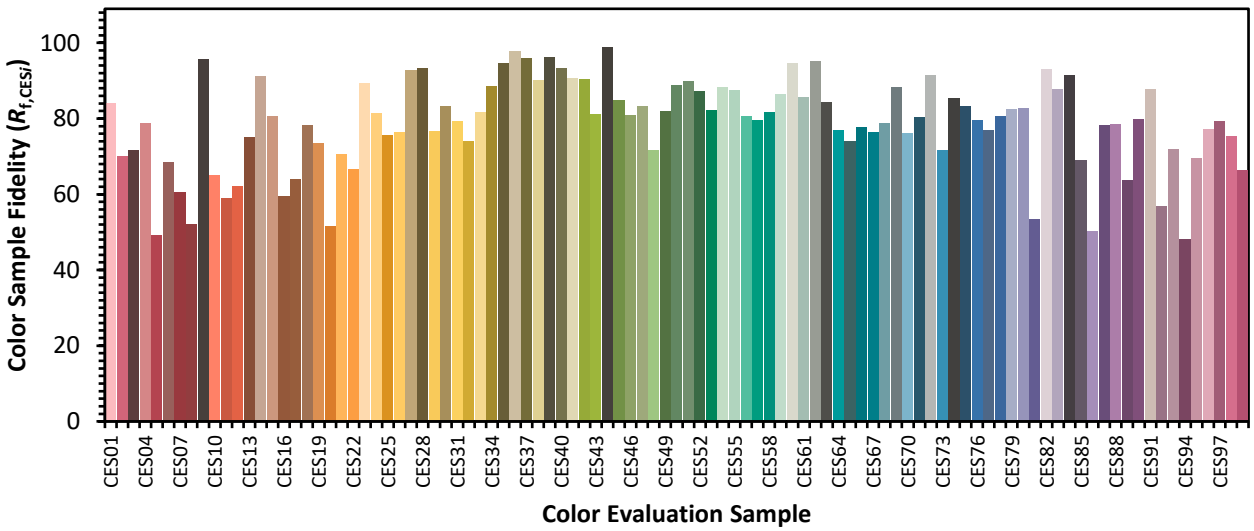


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

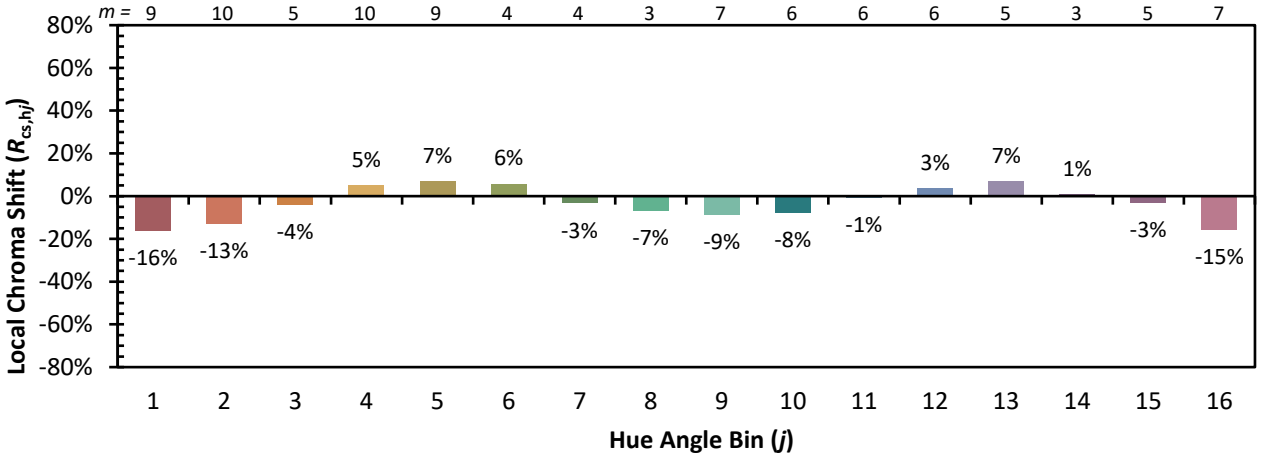
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

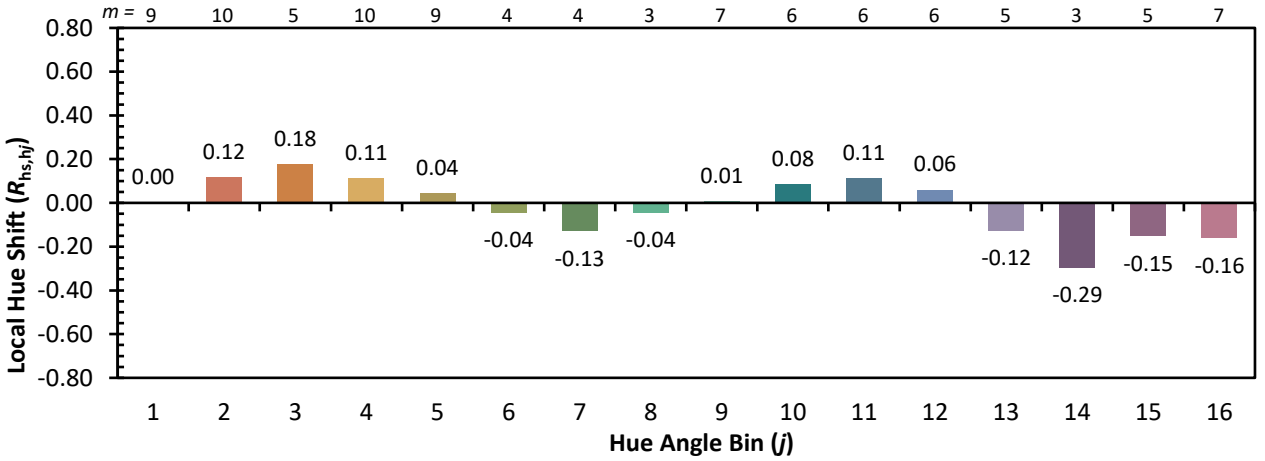


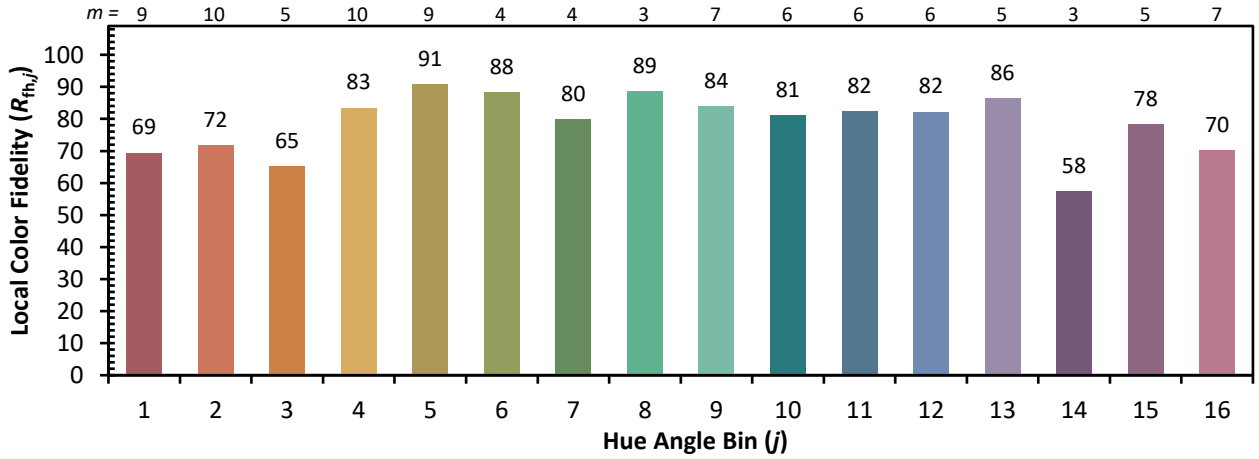
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



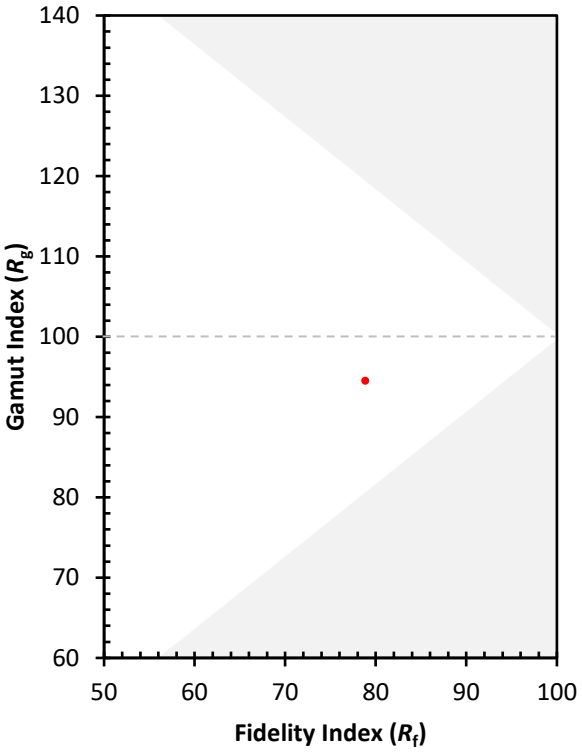


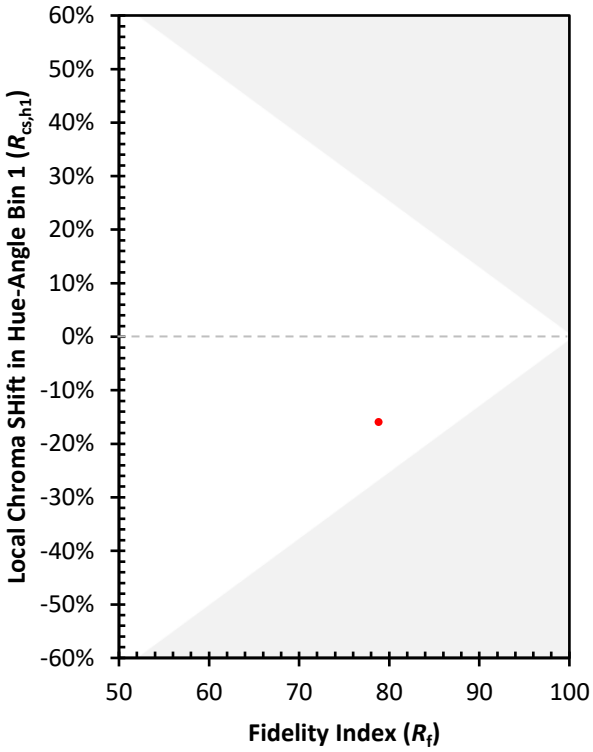


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TM-30-18

Measure Comparisons





(END OF REPORT)