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: P1223985

Luminaire Tested: **FFX-CLB-20-727-U-VM8-T4**

Issue Date: 01/27/2026

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:	P1223985
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-727-U-VM8-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2945.3 lumens
Efficiency:	N/A
Efficacy:	148.8 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

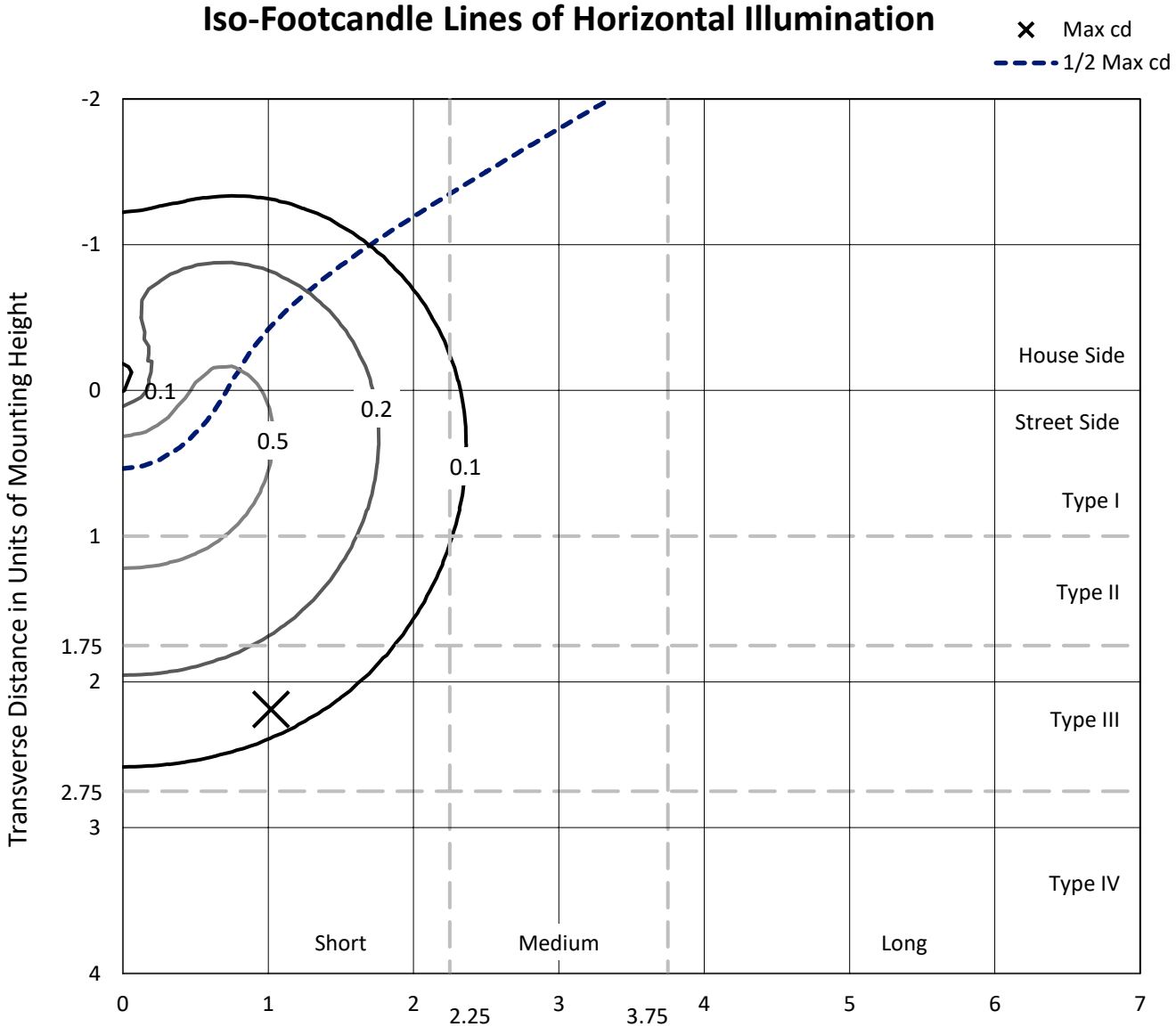


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Iso-Footcandle Lines of Horizontal Illumination



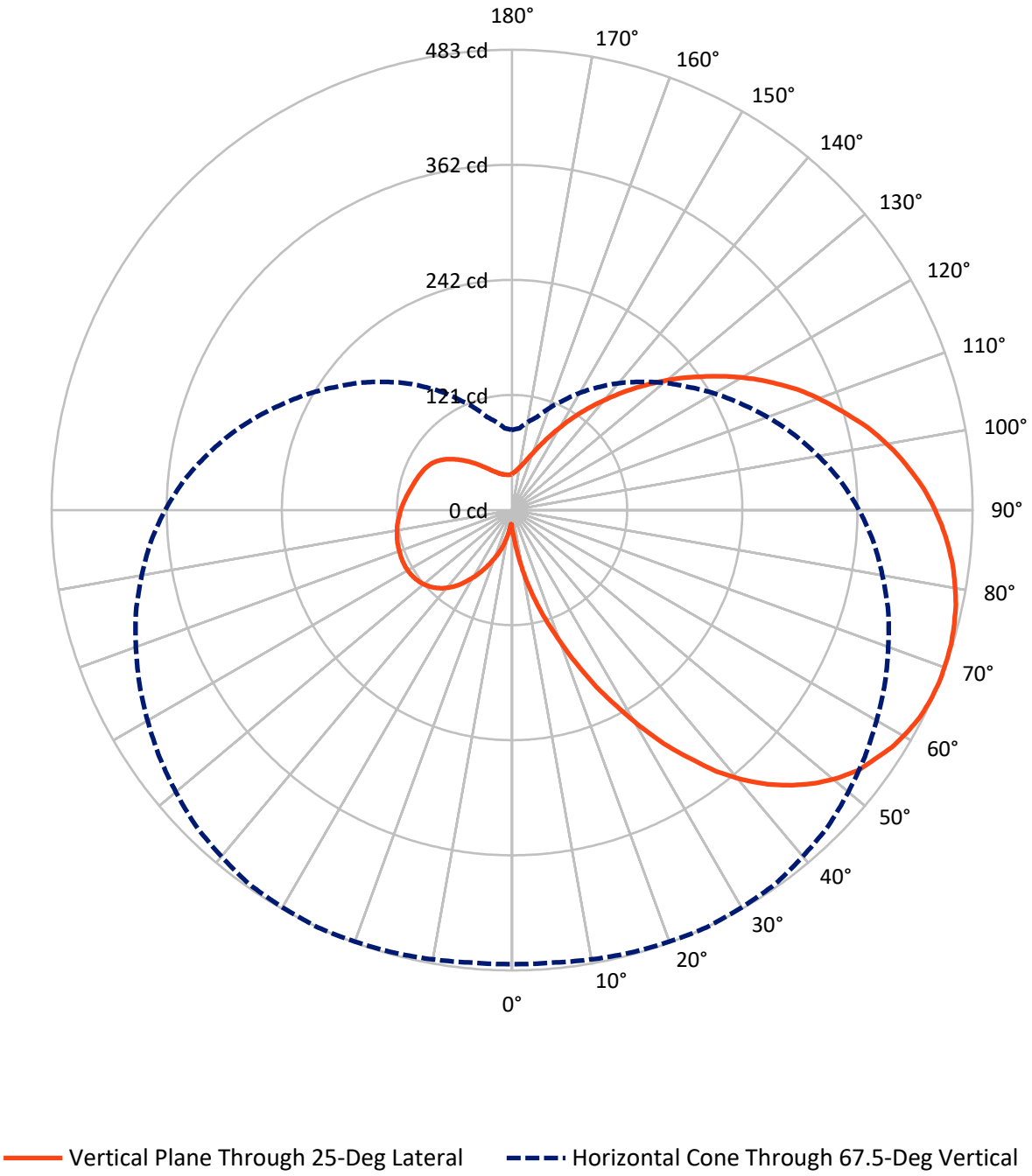
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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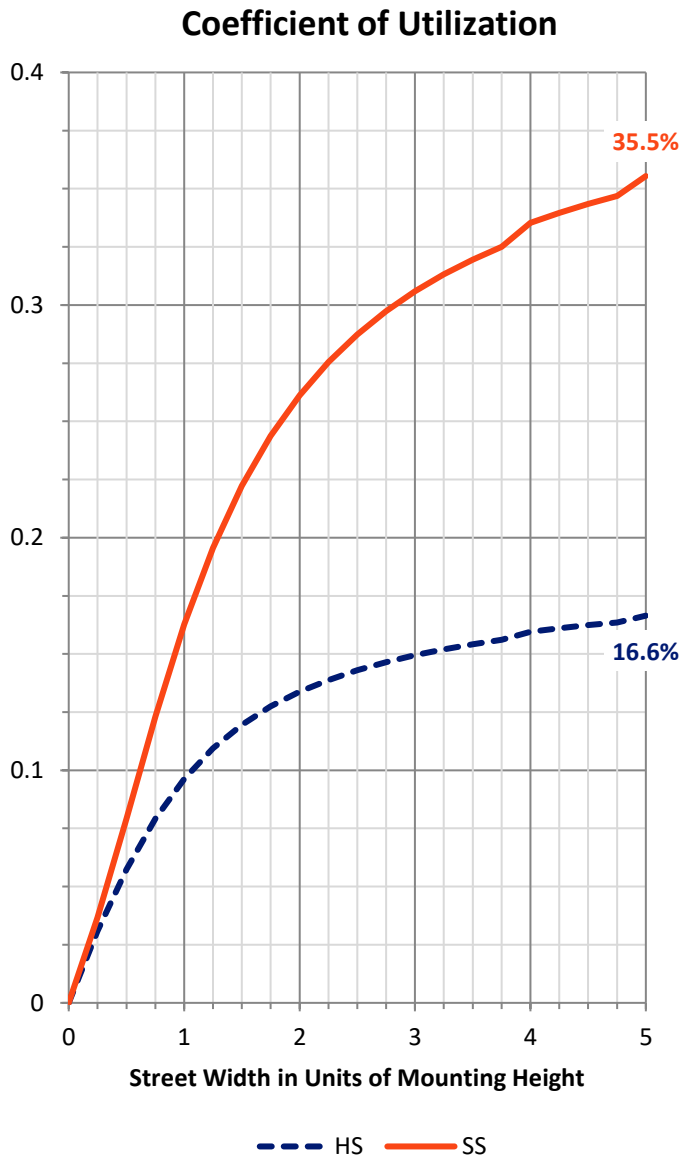
REPORT NUMBER: P1223985
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	539.4	412.3	951.7
	% Fixture	18.3	14.0	32.3
Street Side	Lumens	1191.8	801.7	1993.6
	% Fixture	40.5	27.2	67.7
Total	Lumens	1731.2	1214.0	2945.3
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.1
10°-20°	22.4	0.8
20°-30°	67.1	2.3
30°-40°	138.1	4.7
40°-50°	215.6	7.3
50°-60°	279.2	9.5
60°-70°	322.0	10.9
70°-80°	342.6	11.6
80°-90°	341.1	11.6
90°-100°	318.2	10.8
100°-110°	278.1	9.4
110°-120°	227.8	7.7
120°-130°	169.4	5.8
130°-140°	110.2	3.7
140°-150°	62.4	2.1
150°-160°	30.8	1.0
160°-170°	13.4	0.5
170°-180°	3.8	0.1
0°-90°	1731.2	58.8
0°-180°	2945.3	100.0



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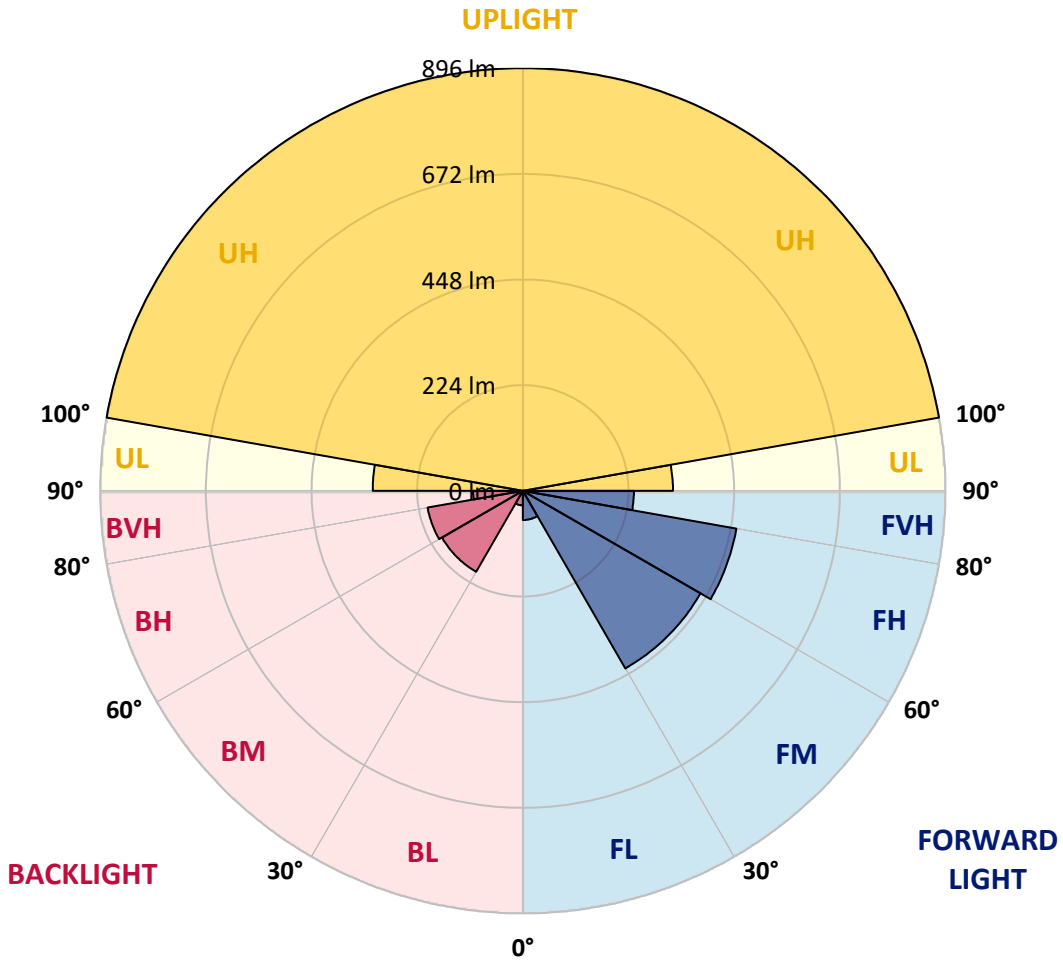
Scaled Data Report

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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°)	61.9	2.1			
FM	(30°-60°)	434.9	14.8			
FH	(60°-80°)	459.7	15.6			G0/660
FVH	(80°-90°)	235.4	8.0			G3/500
BL	(0°-30°)	30.8	1.0	B0/110		
BM	(30°-60°)	198.0	6.7	B0/220		
BH	(60°-80°)	204.9	7.0	B1/500		G1/500
BVH	(80°-90°)	105.6	3.6			G2/225
UL	(90°-100°)	318.2	10.8		U3/500	
UH	(100°-180°)	895.8	30.4		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°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
2.5°	25.4	25.4	25.6	25.6	25.2	25.4	25.1	24.5	24.1	23.2	22.8
5°	37.0	36.5	36.6	36.3	35.5	35.1	33.7	32.5	30.7	28.6	27.7
7.5°	51.4	51.6	50.9	49.9	49.7	47.7	47.3	43.8	42.3	38.7	37.8
10°	69.2	68.8	68.1	67.9	66.2	64.1	61.0	59.1	54.2	51.6	49.5
12.5°	88.6	88.8	87.5	86.2	84.7	81.9	77.6	74.6	70.7	65.3	62.6
15°	109.6	108.8	108.8	107.3	105.1	101.9	98.5	94.2	88.6	82.8	79.1
17.5°	129.0	130.5	129.9	128.1	126.0	122.1	118.5	112.6	106.4	100.0	95.4
20°	153.3	153.7	152.8	151.1	149.2	144.7	140.4	134.4	126.8	116.9	112.9
22.5°	177.8	178.6	178.6	177.6	175.0	171.1	164.2	157.6	148.1	138.2	131.6
25°	206.0	205.5	206.0	205.5	201.2	197.6	190.5	182.7	172.4	160.2	152.4
27.5°	234.5	235.2	233.7	232.4	230.7	225.1	217.4	207.5	194.6	181.9	173.5
30°	262.1	263.8	263.8	262.3	259.7	254.1	245.5	234.8	220.6	204.5	194.6
32.5°	291.1	291.7	292.4	292.2	289.2	283.8	274.3	259.9	244.0	226.2	216.5
35°	321.8	320.1	320.5	319.3	318.0	311.3	300.3	286.4	269.2	249.4	237.6
37.5°	347.2	346.4	347.0	347.9	344.4	337.5	324.8	308.7	289.8	269.0	257.3
40°	371.3	370.8	371.7	371.9	368.3	360.3	346.8	331.3	310.9	287.0	276.0
42.5°	391.5	391.5	392.4	393.6	389.8	381.2	367.6	349.1	328.1	304.0	290.5
45°	410.2	409.6	411.5	412.1	408.3	399.7	384.4	365.7	343.3	318.8	304.8
47.5°	425.2	425.3	427.2	428.3	425.0	415.3	399.7	379.9	356.5	330.9	316.5
50°	437.5	439.2	440.9	442.2	438.6	428.9	412.8	391.3	367.9	342.1	327.2
52.5°	449.8	449.8	452.5	454.1	450.2	440.1	423.3	402.4	378.4	351.1	336.5
55°	457.7	457.9	461.1	461.6	459.2	448.7	431.5	410.6	386.6	359.2	343.6
57.5°	464.6	464.8	468.3	469.7	466.3	456.2	438.6	416.9	393.6	365.5	349.8
60°	470.6	470.4	473.4	475.3	471.9	461.2	444.0	422.9	399.0	371.3	355.0
62.5°	474.3	474.3	477.9	479.8	476.2	465.7	448.2	427.2	403.3	375.2	359.2
65°	476.0	476.4	479.8	482.0	478.6	468.0	450.4	429.8	406.3	378.4	362.2
67.5°	476.6	476.8	480.9	483.1	479.9	469.1	451.7	431.5	408.5	380.5	364.0
70°	477.0	477.1	480.3	482.6	479.8	468.9	452.1	432.3	409.8	381.6	365.1
72.5°	474.9	475.5	479.0	481.6	478.3	467.6	451.1	432.3	409.6	382.3	365.5
75°	472.3	473.6	476.8	479.0	476.0	465.7	449.7	431.5	409.5	382.0	365.5
77.5°	469.7	469.8	474.0	476.0	472.8	462.4	447.0	429.6	408.3	380.8	364.2
80°	464.4	465.5	469.1	471.0	468.2	458.3	443.3	427.0	406.3	379.0	362.2
82.5°	460.7	460.3	463.9	465.5	462.7	452.5	439.0	422.9	403.3	375.8	359.3
85°	453.6	454.3	457.1	458.6	455.4	446.1	433.2	418.8	399.2	372.2	355.6
87.5°	446.8	447.2	449.1	450.8	447.6	438.6	426.7	413.0	394.1	367.8	351.5
90°	438.4	438.6	440.7	442.0	439.2	430.8	419.7	406.5	388.7	362.7	346.4
92.5°	430.6	430.2	431.7	432.3	429.8	421.6	411.7	399.4	382.2	356.5	340.8
95°	420.3	420.1	421.4	421.0	418.4	411.3	402.4	391.5	374.5	350.0	334.5
97.5°	408.9	409.1	409.8	409.5	406.7	400.1	393.2	382.3	366.6	342.3	327.4
100°	396.2	396.7	397.9	396.7	394.3	389.5	382.2	373.2	357.7	334.7	319.9
102.5°	385.5	384.0	383.7	383.5	381.0	376.7	371.1	363.3	348.9	326.3	312.0
105°	371.5	370.6	370.4	368.3	367.4	363.8	359.2	352.1	339.2	317.8	304.0
107.5°	356.7	356.9	356.2	353.7	352.4	350.0	347.4	341.0	328.7	308.5	295.8
110°	343.5	342.5	340.5	339.3	338.4	336.4	334.7	329.8	318.4	299.5	286.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	327.0	327.6	325.1	*324.4*	322.9	322.7	321.6	317.7	307.6	290.0	278.0
115°	312.2	311.9	309.4	*307.9*	307.4	307.7	308.5	305.7	296.3	279.7	268.7
117.5°	296.0	294.8	293.2	*291.7*	290.9	292.4	294.1	292.8	284.9	269.2	258.8
120°	278.6	278.8	276.3	*274.8*	275.0	277.5	279.7	279.0	271.5	257.5	248.1
122.5°	262.3	261.4	259.3	*257.8*	259.1	261.8	264.4	264.2	257.6	244.0	235.6
125°	244.6	244.4	242.3	*240.8*	241.9	244.9	248.1	248.5	242.3	230.9	222.5
127.5°	227.7	227.2	226.8	*225.1*	225.9	230.0	232.2	232.0	226.6	216.1	208.8
130°	211.6	211.5	209.2	*208.5*	209.4	212.8	215.0	214.6	210.3	201.2	194.6
132.5°	195.4	194.6	193.7	*192.6*	193.3	196.1	199.1	198.7	193.7	184.9	179.7
135°	179.3	178.7	178.0	*177.2*	177.8	180.6	183.2	182.5	178.2	170.3	165.1
137.5°	164.5	164.0	163.0	*162.1*	162.8	165.1	166.8	166.2	162.7	155.2	150.1
140°	149.2	149.6	148.5	*147.7*	148.1	150.3	151.6	150.9	147.0	140.8	136.7
142.5°	135.2	135.2	134.6	*134.4*	135.0	136.1	137.2	135.7	133.1	126.8	123.4
145°	121.7	121.9	121.7	*121.3*	121.5	122.8	123.0	122.5	119.5	114.8	111.1
147.5°	109.0	109.6	109.2	*109.2*	109.4	109.9	110.7	109.4	106.8	102.6	100.0
150°	97.2	97.6	97.6	*97.2*	97.2	98.0	98.0	97.0	95.0	91.6	89.2
152.5°	86.9	87.1	87.1	*86.8*	86.9	87.1	86.8	85.6	83.9	81.3	79.5
155°	77.6	78.0	77.4	*77.6*	77.0	77.2	77.0	76.3	74.4	72.2	71.0
157.5°	69.2	69.7	69.4	*69.4*	69.0	68.8	68.6	67.9	66.6	64.7	63.4
160°	62.4	62.8	62.3	*62.3*	61.9	61.9	61.1	60.8	59.5	57.8	57.0
162.5°	56.7	56.7	56.5	*56.7*	56.5	55.9	55.5	54.8	53.7	52.4	51.8
165°	52.0	51.8	51.8	*51.6*	51.4	51.0	50.5	50.1	49.0	47.9	47.5
167.5°	48.4	48.2	48.1	*47.9*	47.5	47.3	46.7	46.4	45.4	44.5	44.1
170°	45.4	45.4	45.1	*44.9*	44.7	44.3	43.8	43.2	42.4	41.9	41.5
172.5°	42.8	42.8	42.6	*42.4*	42.3	41.9	41.3	40.9	40.4	39.8	39.4
175°	40.9	40.9	40.8	*40.4*	40.2	39.8	39.4	39.1	38.5	38.1	38.0
177.5°	39.4	39.4	39.4	*39.1*	38.9	38.5	38.1	37.8	37.6	37.2	37.2
180°	37.6	37.6	37.6	*37.6*	37.6	37.6	37.6	37.6	37.6	37.6	37.6

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REPORT NUMBER: P1223985
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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
2.5°	22.2	21.1	20.2	18.7	17.4	16.3	15.5	15.0	14.6	14.2
5°	26.5	24.5	22.4	20.2	18.1	16.3	14.8	13.6	13.1	13.1
7.5°	36.3	33.1	29.5	26.4	23.9	21.5	19.3	17.9	17.2	16.8
10°	47.5	42.8	39.3	35.3	31.0	28.0	25.4	23.7	22.8	23.0
12.5°	61.0	55.2	50.7	44.9	40.2	35.5	32.7	30.3	29.2	29.0
15°	75.9	69.2	62.6	55.7	49.5	44.1	40.0	36.8	35.0	34.8
17.5°	91.6	83.2	74.4	66.6	58.5	51.8	46.2	42.4	40.4	40.4
20°	107.5	98.0	87.7	77.4	67.7	59.5	52.9	48.1	45.4	45.1
22.5°	125.8	113.7	101.3	88.8	77.8	67.5	59.1	53.3	50.5	49.9
25°	145.8	131.4	116.7	101.9	88.2	75.9	66.2	59.6	55.7	55.2
27.5°	166.6	149.2	131.8	114.6	98.7	85.1	73.3	64.9	61.0	60.4
30°	187.0	167.9	147.7	127.5	109.6	93.9	80.4	70.7	65.8	65.1
32.5°	207.0	185.3	163.0	140.6	121.0	102.6	86.9	76.5	70.5	69.7
35°	226.0	203.6	177.6	153.5	131.1	111.4	93.9	81.7	75.0	74.2
37.5°	244.7	219.3	192.0	165.5	141.2	118.9	100.2	86.6	79.1	78.3
40°	262.5	234.3	204.5	176.5	149.9	126.4	105.6	90.9	82.5	81.5
42.5°	276.1	247.2	216.1	185.8	157.6	132.0	110.5	94.2	85.1	83.8
45°	289.8	258.8	226.0	194.1	164.3	137.4	114.4	97.2	87.5	86.0
47.5°	301.0	268.7	234.1	200.8	170.0	142.1	117.8	99.3	89.0	87.5
50°	311.7	277.5	241.6	207.0	175.0	146.2	120.6	101.0	89.9	88.4
52.5°	319.9	284.7	247.5	211.8	179.1	149.2	122.8	102.1	90.5	88.8
55°	326.8	290.7	252.4	215.6	182.3	151.8	124.5	102.6	90.5	88.8
57.5°	332.6	295.4	256.3	218.9	184.7	153.5	125.6	102.8	89.9	88.2
60°	337.7	299.7	259.5	221.6	187.0	155.2	126.4	102.8	89.4	87.5
62.5°	341.8	302.7	261.9	223.6	188.6	156.5	126.8	102.5	88.2	86.4
65°	344.2	304.8	263.4	224.7	189.6	156.9	126.8	101.9	87.1	85.3
67.5°	*346.3*	*306.1*	*264.4*	*225.3*	*190.1*	*157.2*	*126.6*	*101.0*	*86.0*	*84.1*
70°	347.2	306.6	264.7	225.7	190.5	157.1	126.0	100.2	84.9	82.6
72.5°	347.4	306.8	264.6	225.7	190.5	157.1	125.5	99.1	83.6	81.5
75°	347.0	306.3	264.0	225.5	190.3	156.5	124.9	98.2	82.5	80.2
77.5°	345.9	305.1	263.1	224.7	189.4	155.9	123.8	97.0	81.1	79.1
80°	344.0	303.3	261.6	223.4	188.3	154.8	122.8	95.9	80.0	78.0
82.5°	341.2	300.8	259.7	221.7	187.2	153.5	121.7	94.8	78.9	76.8
85°	337.8	297.8	256.9	219.7	185.5	152.0	120.2	93.5	77.8	75.7
87.5°	333.2	294.1	253.9	217.3	183.2	150.1	118.5	92.4	76.8	74.8
90°	328.7	290.0	250.7	214.6	181.2	148.5	117.0	91.1	76.1	74.0
92.5°	323.5	285.1	246.8	211.6	178.4	146.2	115.5	89.9	75.3	73.5
95°	317.5	279.9	242.7	208.1	175.7	144.0	113.7	88.8	74.6	72.9
97.5°	310.7	274.3	238.2	204.4	172.6	141.5	112.0	87.9	74.2	72.4
100°	303.8	267.9	233.3	200.6	169.4	138.9	110.3	86.9	74.0	72.4
102.5°	296.0	262.1	228.5	196.9	166.2	136.5	108.6	86.4	74.0	72.4
105°	288.5	255.4	223.2	192.8	163.0	134.1	107.1	86.0	74.2	72.7
107.5°	280.4	249.0	218.0	188.5	159.5	131.6	105.8	85.6	74.6	73.1
110°	273.0	242.9	213.1	184.3	156.3	129.4	104.5	85.4	75.0	73.7

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

Scaled Data Report

REPORT NUMBER: P1223985
CATALOG NUMBER: FFX-CLB-20-727-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	264.7	236.1	207.7	179.9	152.9	126.8	103.2	85.1	75.3	74.2
115°	256.1	229.0	202.3	175.4	149.0	124.3	101.9	84.9	75.7	74.6
117.5°	246.8	221.4	195.8	170.1	144.9	121.3	100.0	84.1	75.7	74.6
120°	236.7	213.3	188.6	164.5	140.2	117.8	98.2	83.2	75.3	74.4
122.5°	225.7	203.8	180.4	157.4	135.0	113.7	95.4	81.5	74.4	73.5
125°	213.5	193.1	172.0	149.8	128.4	109.0	92.0	79.6	72.9	72.2
127.5°	200.8	182.1	161.9	141.7	122.3	104.0	88.4	76.8	70.9	70.1
130°	186.6	169.8	151.4	132.7	115.0	98.2	84.1	73.7	68.2	67.5
132.5°	172.9	157.6	141.2	124.5	107.3	92.5	79.5	70.1	65.4	64.7
135°	158.7	145.3	130.5	114.8	100.2	86.4	74.8	66.6	62.3	61.7
137.5°	144.9	133.5	119.7	105.8	92.9	80.4	70.3	63.2	59.3	58.9
140°	132.0	121.3	109.7	97.6	85.6	74.8	66.0	59.5	56.3	55.7
142.5°	119.5	110.3	99.8	89.6	78.5	69.4	61.7	55.9	53.3	52.9
145°	107.7	100.0	90.9	81.5	72.2	64.1	57.6	52.7	50.5	50.3
147.5°	96.7	90.3	82.3	74.4	66.6	59.8	53.8	50.1	48.1	47.9
150°	86.6	80.8	74.4	67.7	61.1	55.2	50.7	47.3	45.6	45.4
152.5°	77.0	72.5	67.3	61.9	56.3	51.6	47.5	45.1	43.8	43.6
155°	68.8	65.3	61.0	56.3	52.0	48.2	45.1	43.2	42.1	42.1
157.5°	61.9	58.9	55.7	52.0	48.4	45.4	43.2	41.5	40.6	40.6
160°	55.9	53.3	50.9	48.1	45.6	43.2	41.5	40.2	39.4	39.4
162.5°	50.9	49.0	47.1	45.1	43.0	41.5	40.0	39.1	38.7	38.5
165°	46.7	45.6	44.1	42.6	41.3	40.0	39.1	38.5	38.1	38.1
167.5°	43.6	42.8	41.7	40.8	39.8	38.9	38.3	38.0	37.8	37.8
170°	41.1	40.6	39.8	39.3	38.7	38.1	37.8	37.6	37.4	37.4
172.5°	39.3	38.7	38.3	38.1	37.8	37.6	37.4	37.2	37.2	37.2
175°	38.0	37.6	37.6	37.4	37.2	37.2	37.0	37.0	37.0	37.2
177.5°	37.0	37.0	37.0	37.0	37.0	37.2	37.2	37.2	37.4	37.4
180°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6

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: SP1-2501-332-3

Test Date: 03/21/2025

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: v7.04

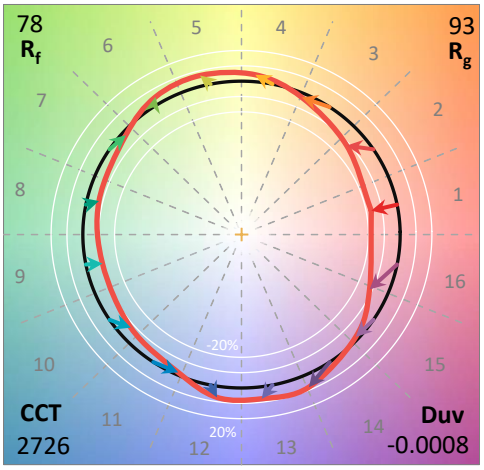
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

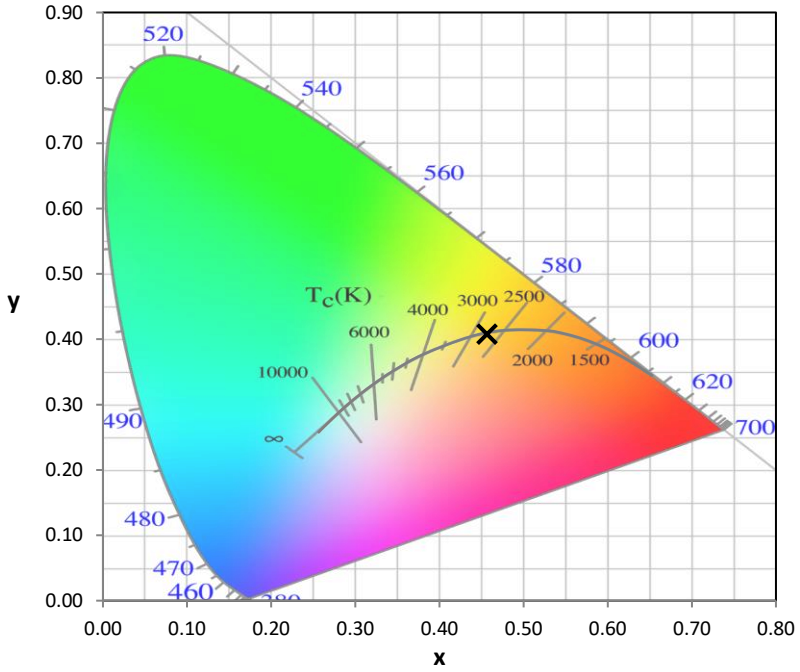
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

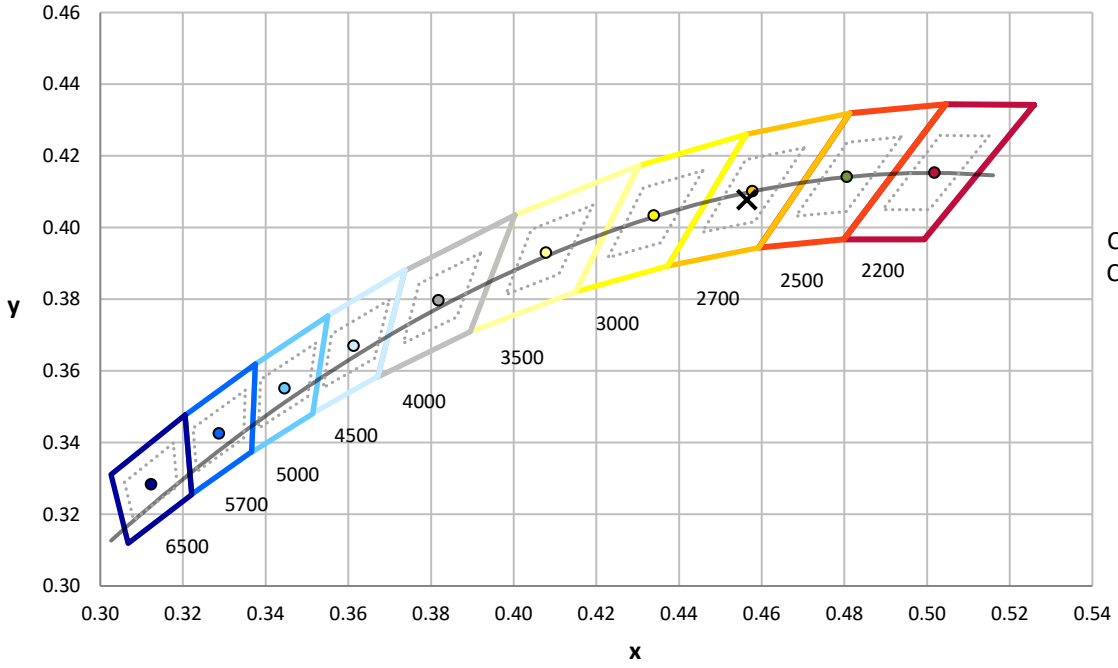
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

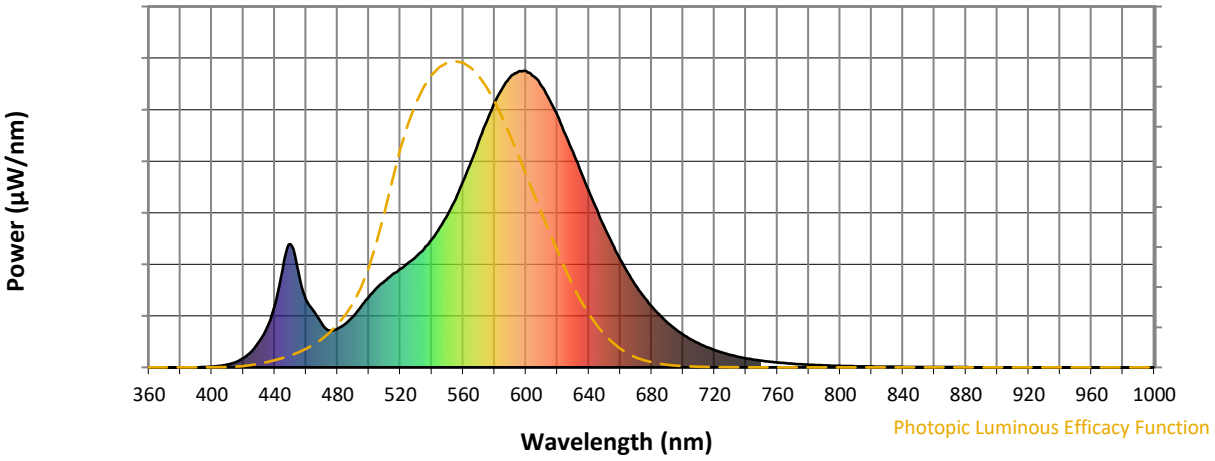


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

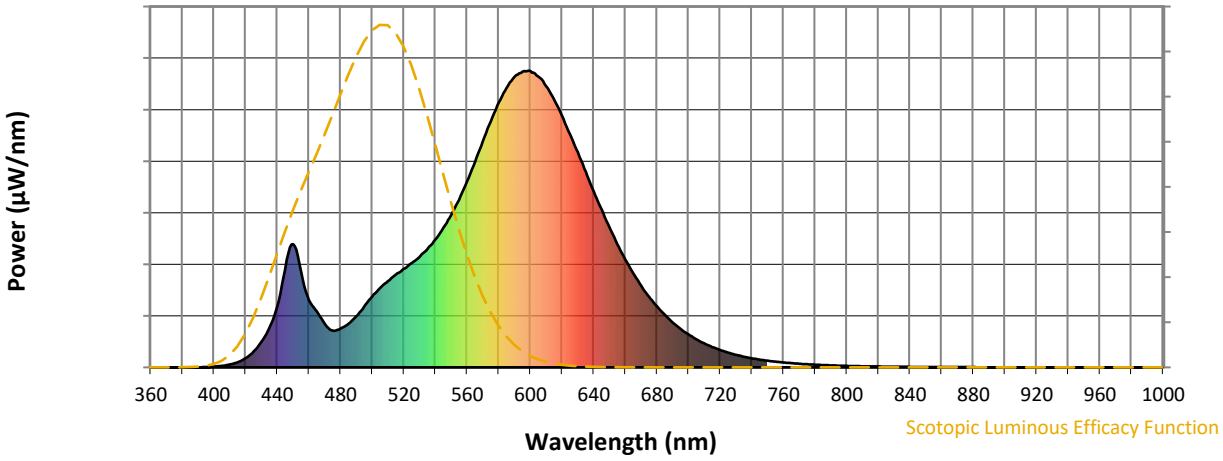


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

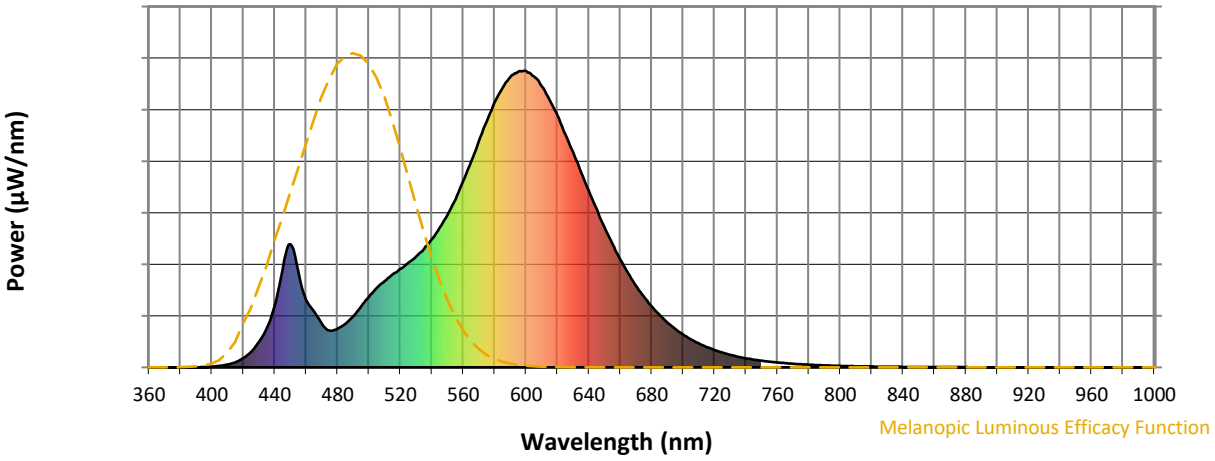


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

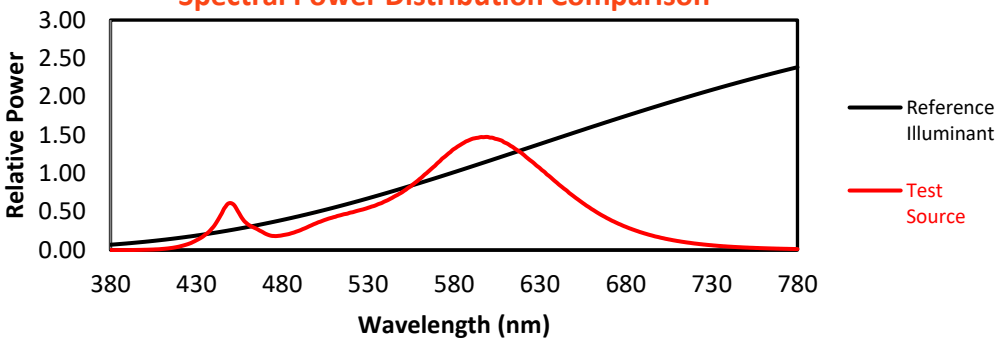
REPORT NUMBER: SP1-2501-332-3

TM-30-18

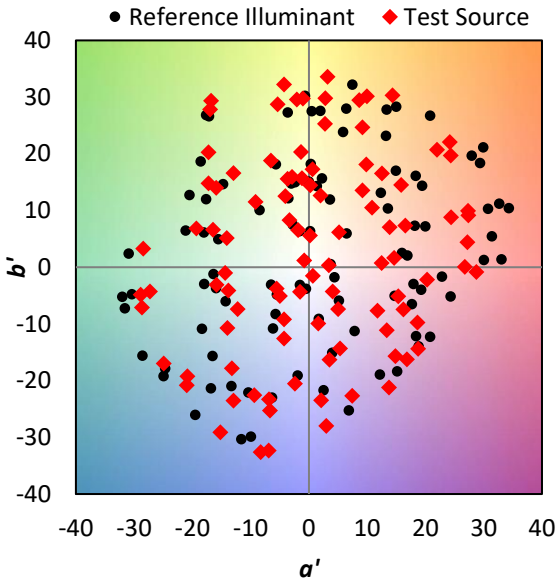
Summary

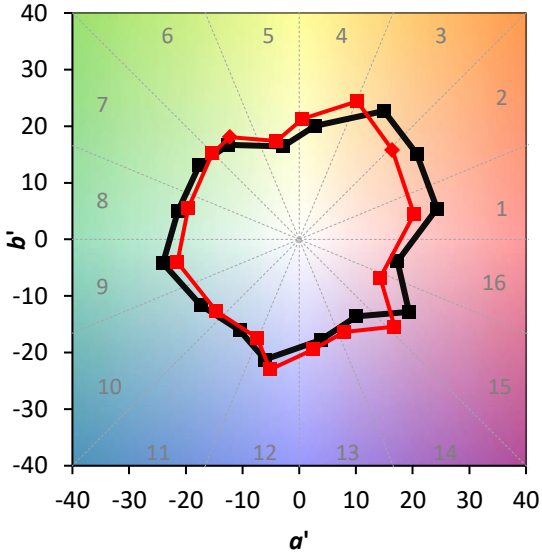
R_f = 77.8
R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

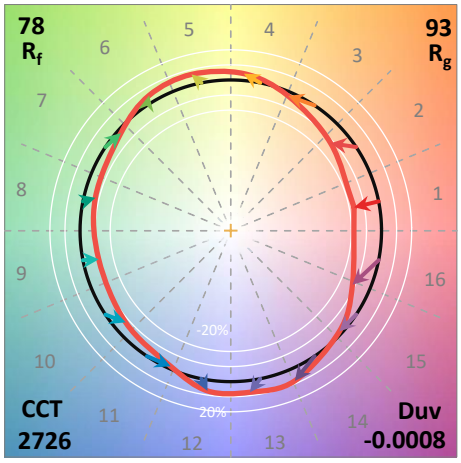
Spectral Power Distribution Comparison

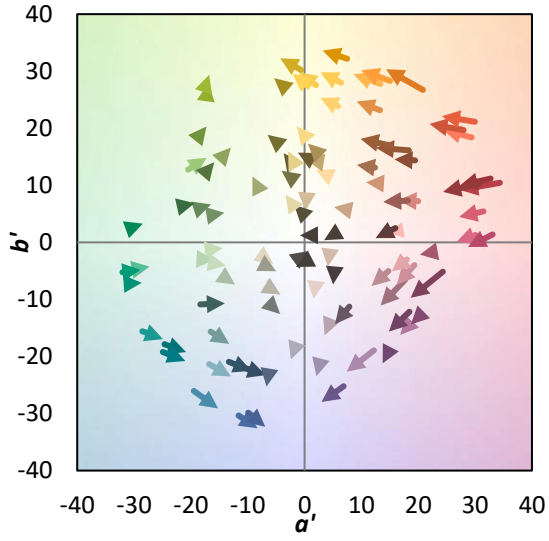


Color Vector Graphics







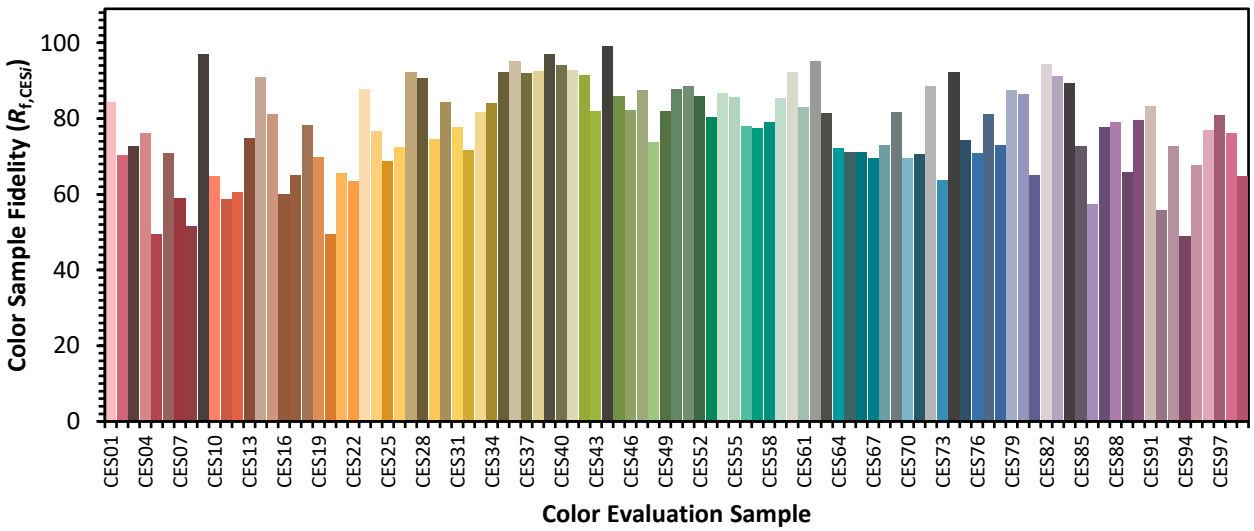


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

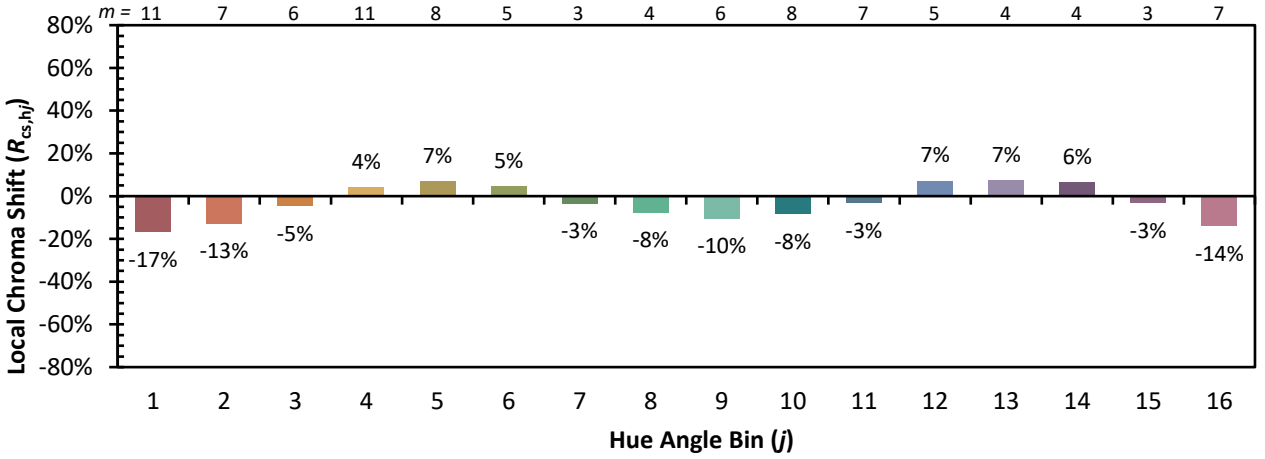
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

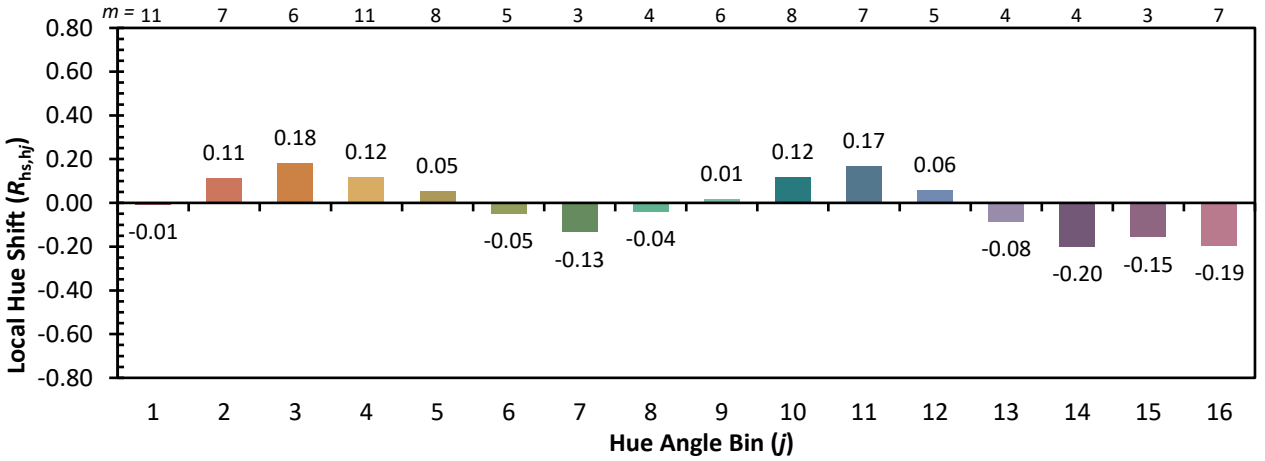


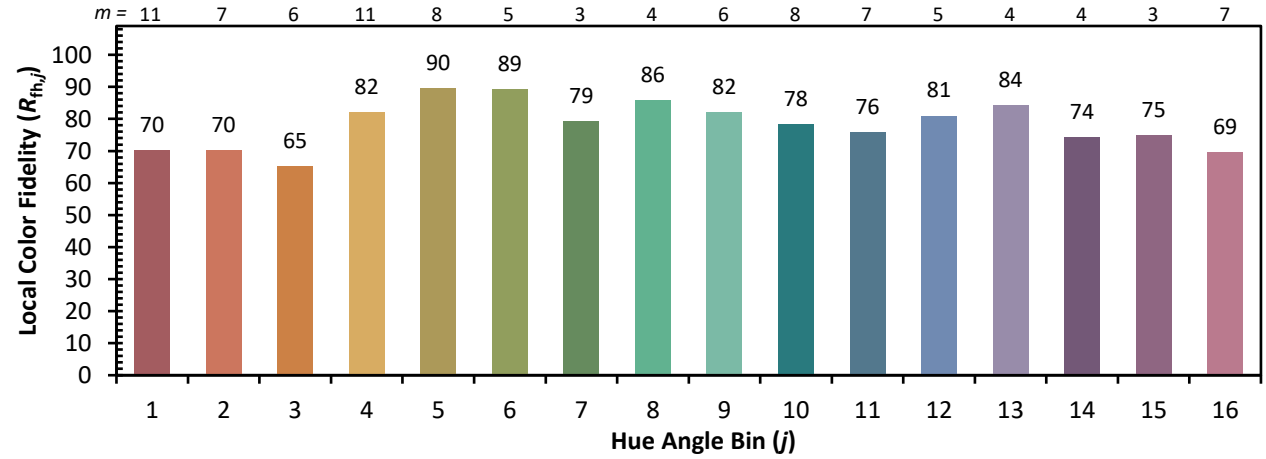
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



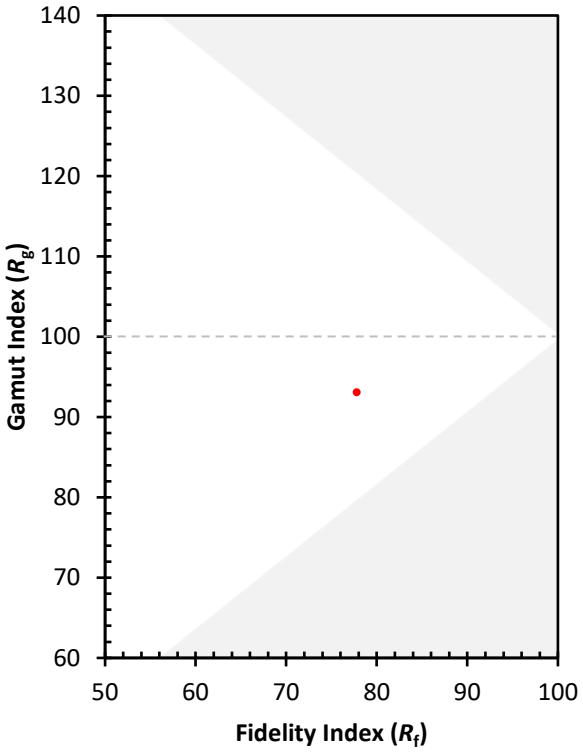


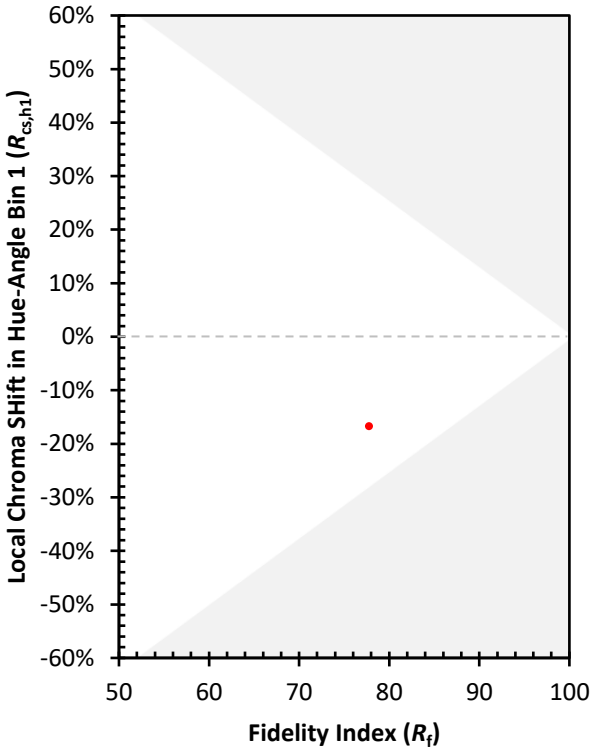


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Measure Comparisons





(END OF REPORT)