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: P1223949

Luminaire Tested: **FFX-CLB-20-730-U-VM9-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:	P1223949
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-VM9-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 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:	2860.4 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

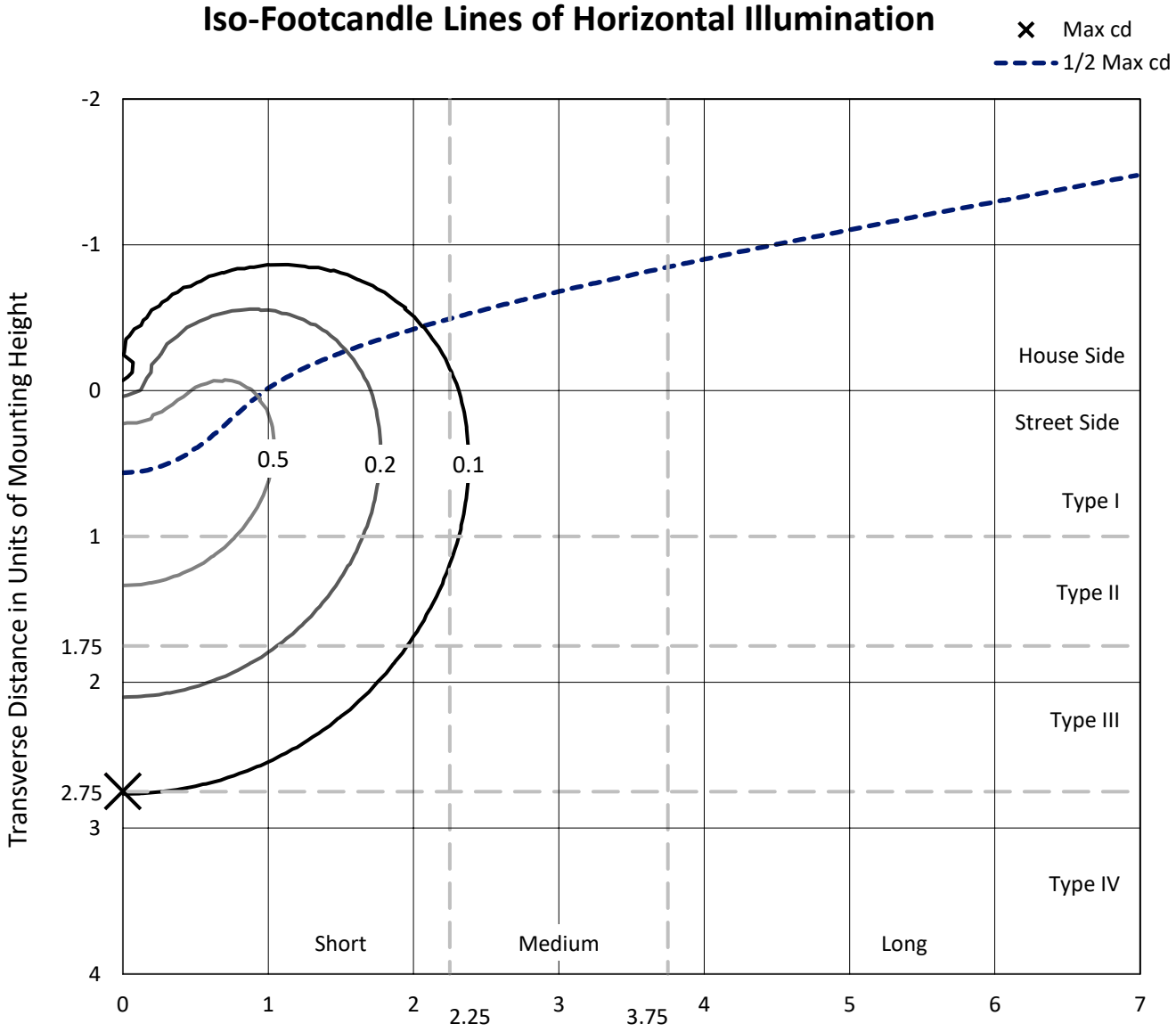


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Iso-Footcandle Lines of Horizontal Illumination



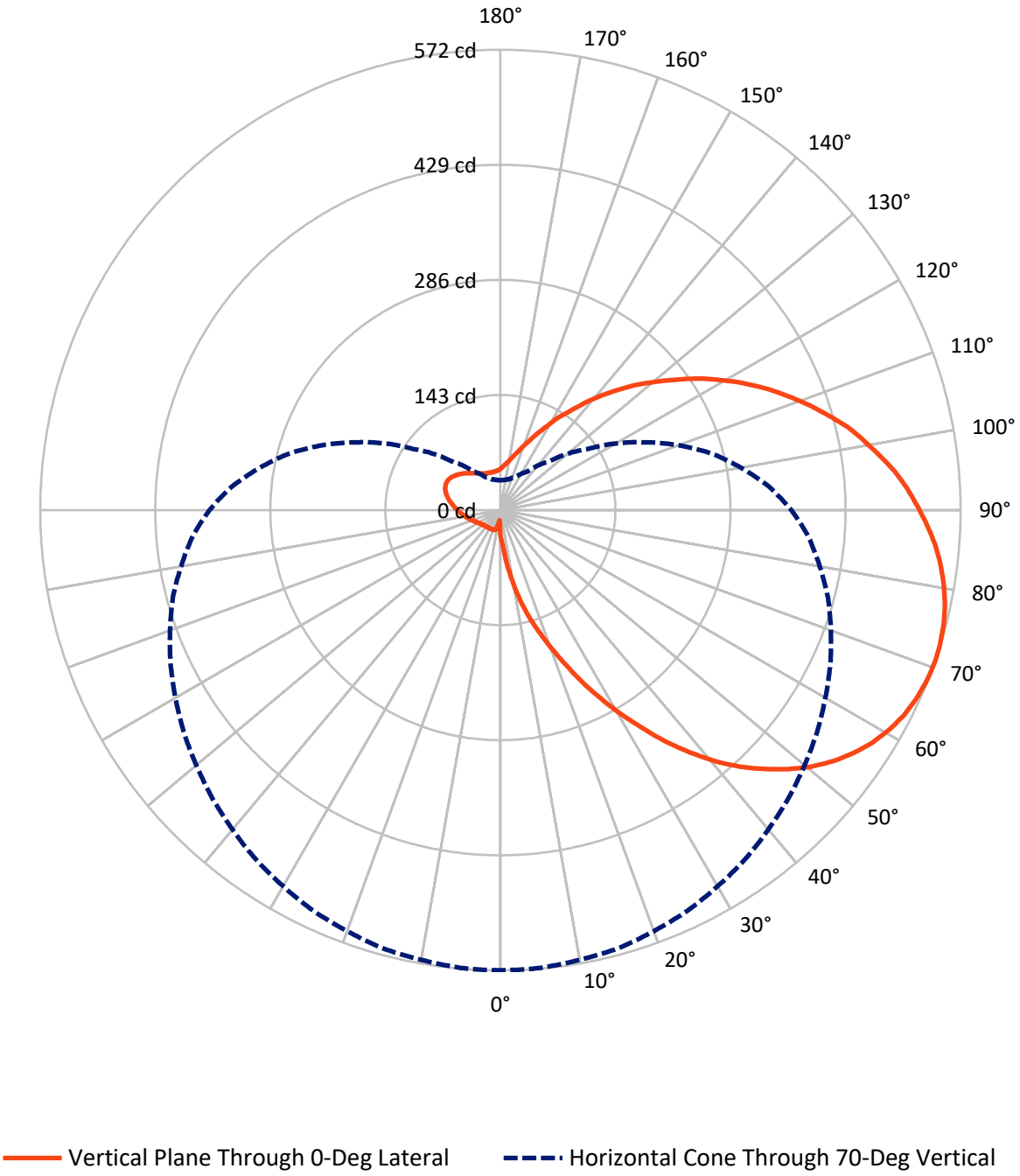
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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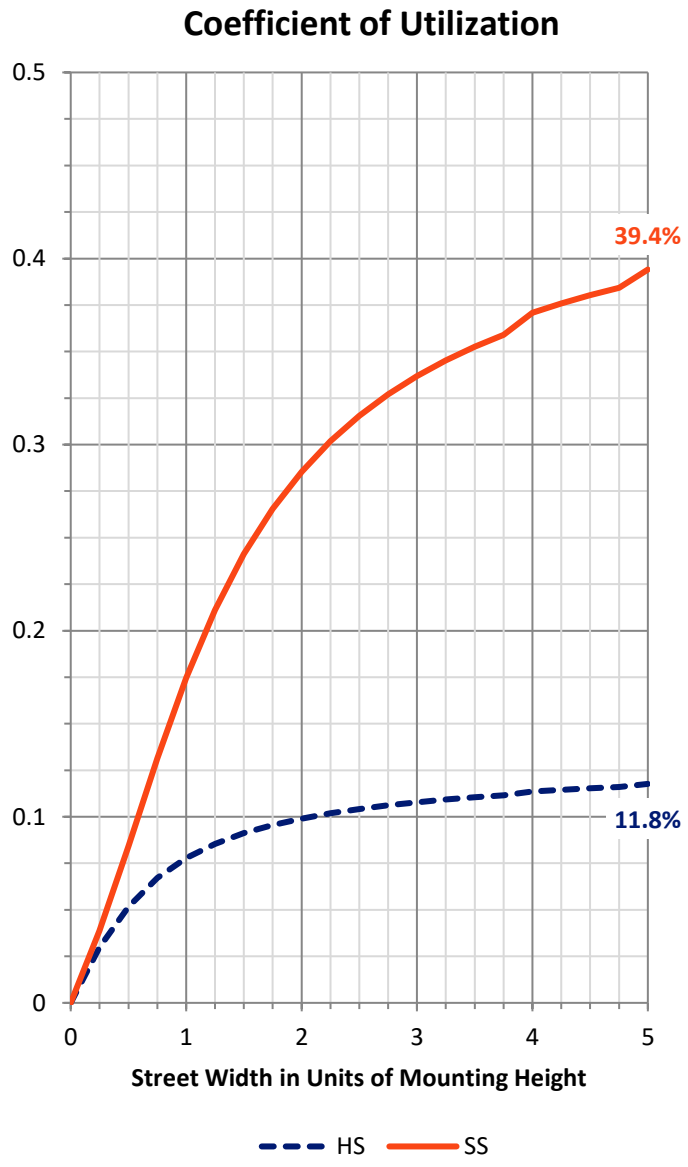
REPORT NUMBER: P1223949
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	366.8	353.9	720.7
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	1288.4	851.4	2139.7
	% Fixture	45.0	29.8	74.8
Total	Lumens	1655.1	1205.3	2860.4
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.2
10°-20°	25.0	0.9
20°-30°	65.8	2.3
30°-40°	127.8	4.5
40°-50°	199.1	7.0
50°-60°	262.7	9.2
60°-70°	308.5	10.8
70°-80°	331.9	11.6
80°-90°	330.0	11.5
90°-100°	306.8	10.7
100°-110°	269.4	9.4
110°-120°	221.6	7.7
120°-130°	166.8	5.8
130°-140°	113.0	4.0
140°-150°	68.4	2.4
150°-160°	36.8	1.3
160°-170°	17.3	0.6
170°-180°	5.0	0.2
0°-90°	1655.1	57.9
0°-180°	2860.4	100.0



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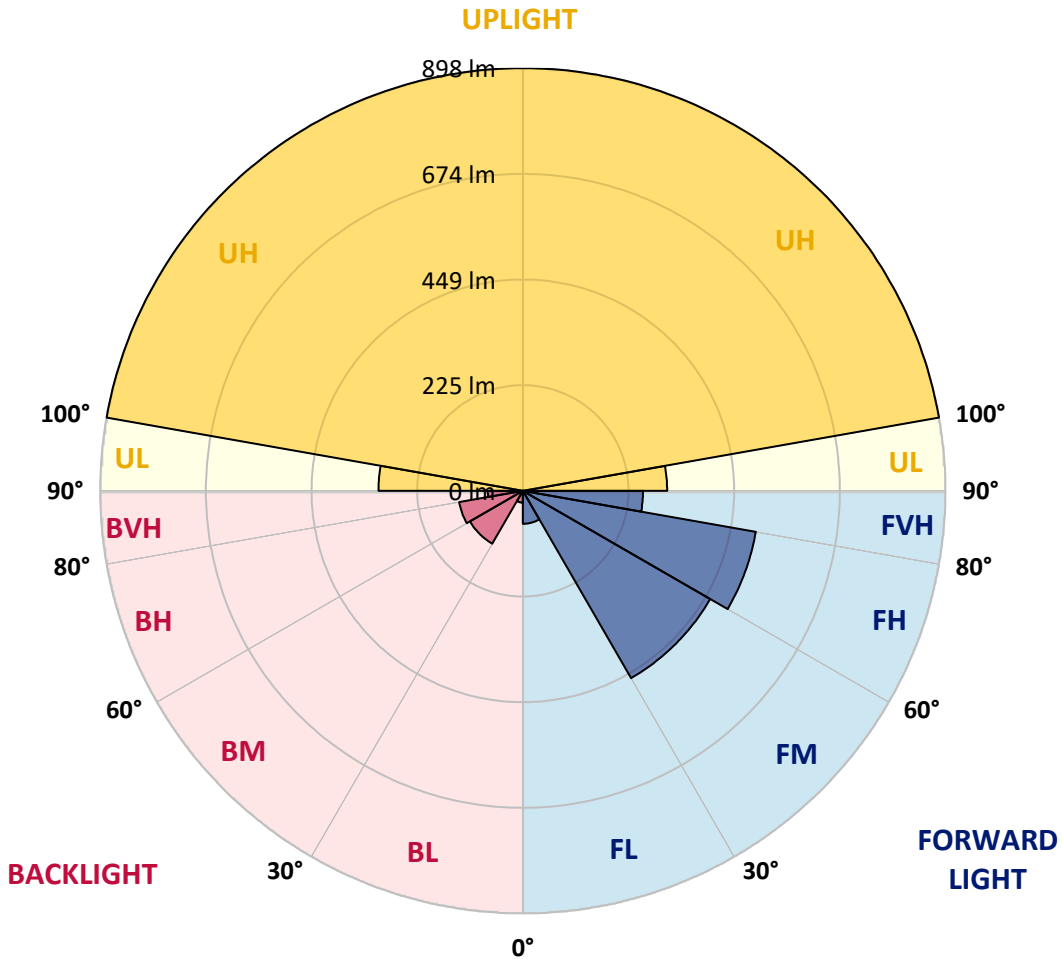
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	70.1	2.4			
FM	(30°-60°)	459.9	16.1			
FH	(60°-80°)	502.9	17.6			G0/660
FVH	(80°-90°)	255.5	8.9			G3/500
BL	(0°-30°)	25.0	0.9	B0/110		
BM	(30°-60°)	129.8	4.5	B0/220		
BH	(60°-80°)	137.4	4.8	B1/500		G1/500
BVH	(80°-90°)	74.5	2.6			G1/100
UL	(90°-100°)	306.8	10.7		U3/500	
UH	(100°-180°)	898.4	31.4		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°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	39.9	40.1	39.9	39.9	40.3	39.9	39.4	38.0	36.3	34.2	33.1
5°	55.8	55.8	56.8	56.8	55.8	53.5	50.8	47.0	43.6	40.1	37.5
7.5°	76.1	76.6	75.7	73.6	72.4	67.7	65.0	60.2	56.0	51.2	48.9
10°	97.3	97.5	96.5	94.6	90.6	86.0	82.0	76.3	70.9	64.6	61.2
12.5°	120.0	119.6	117.7	113.5	111.2	105.9	100.7	94.8	87.5	79.7	75.7
15°	141.6	140.7	139.9	135.5	132.3	127.1	121.0	113.1	104.5	95.9	90.0
17.5°	162.3	160.5	159.2	157.1	152.3	147.7	139.9	130.5	121.2	109.9	103.8
20°	184.6	185.0	182.9	180.0	174.7	168.0	160.5	150.4	138.8	125.4	118.1
22.5°	209.5	209.5	208.3	204.5	199.0	190.4	181.6	171.1	156.9	142.8	133.8
25°	237.2	235.7	234.1	229.2	224.6	215.4	204.9	193.6	178.7	161.7	151.6
27.5°	264.7	264.1	262.4	257.1	251.3	241.6	231.1	216.5	200.3	180.4	169.9
30°	293.8	293.2	291.5	286.5	277.9	268.5	255.9	240.2	222.5	200.1	188.6
32.5°	322.0	322.0	319.9	314.6	305.6	294.3	280.8	263.2	243.7	220.6	206.8
35°	353.2	353.0	349.2	342.9	332.0	322.2	307.1	288.6	266.6	240.2	225.5
37.5°	381.9	380.9	377.1	370.4	360.3	347.5	330.6	310.2	287.6	259.4	242.9
40°	410.3	409.0	405.6	398.1	385.9	371.5	354.0	332.2	306.6	277.5	260.3
42.5°	435.8	435.4	430.6	421.6	409.4	393.1	374.4	351.3	325.7	294.3	276.0
45°	459.1	459.1	454.3	444.4	430.6	414.0	393.5	369.8	342.5	309.6	290.3
47.5°	481.1	481.1	476.5	465.2	449.9	431.6	410.7	386.1	357.2	323.4	302.9
50°	501.1	500.2	495.0	482.4	466.9	447.8	425.8	400.0	370.8	335.8	315.0
52.5°	518.3	517.2	511.1	499.4	482.0	461.6	438.6	412.4	381.9	346.5	325.3
55°	532.7	532.1	526.2	512.8	494.6	474.2	449.7	422.4	392.4	355.5	334.1
57.5°	545.3	544.3	537.4	523.7	505.5	483.2	458.5	431.4	400.4	363.7	341.5
60°	554.8	553.7	546.6	533.0	514.5	491.0	466.3	438.8	407.3	370.2	347.5
62.5°	562.5	561.3	554.3	539.9	520.6	497.5	472.1	444.2	412.8	375.4	352.8
65°	567.3	566.3	559.6	545.1	525.2	501.9	476.5	448.4	417.2	379.4	356.8
67.5°	570.5	569.7	562.7	548.7	528.8	505.1	479.3	451.2	420.1	382.4	359.7
70°	572.0	571.1	564.0	549.7	530.0	506.3	480.5	452.4	421.6	384.5	361.6
71°	572.0	571.1	564.2	549.9	530.2	506.5	480.7	452.6	421.8	384.7	361.8
72.5°	571.3	570.7	563.8	549.3	529.6	506.1	480.1	452.4	421.8	384.9	362.2
75°	569.0	567.8	561.1	547.0	527.5	504.0	478.2	450.5	420.5	384.2	361.8
77.5°	564.8	563.8	556.9	543.2	523.7	500.0	474.4	447.4	418.0	382.1	360.1
80°	558.7	557.7	551.0	536.9	517.6	494.8	469.2	442.6	413.6	378.8	357.2
82.5°	551.0	550.1	543.6	529.6	510.5	487.9	462.3	436.3	408.8	374.2	353.0
85°	541.8	540.7	533.6	519.7	501.5	478.8	453.9	428.7	401.9	368.5	348.0
87.5°	530.6	530.0	522.9	509.7	491.4	469.0	445.1	420.5	394.1	362.2	342.3
90°	518.5	518.3	510.7	497.5	479.5	458.3	434.6	410.7	385.1	354.7	335.4
92.5°	506.3	506.3	498.8	485.1	467.3	446.3	423.9	400.8	376.5	347.1	328.7
95°	492.9	491.4	484.3	472.1	454.3	434.2	412.6	389.9	366.4	338.5	321.1
97.5°	477.2	476.7	469.8	456.8	440.5	421.2	400.2	379.2	356.6	329.7	313.1
100°	461.8	461.0	454.5	442.6	425.8	407.3	387.6	367.5	346.1	320.7	304.8
102.5°	446.7	444.7	437.9	425.8	411.1	393.1	374.6	356.1	335.2	311.0	296.2
105°	428.5	428.3	421.4	409.8	394.9	379.0	361.6	343.6	324.5	301.2	287.3
107.5°	410.7	410.7	404.2	392.8	378.8	363.5	348.0	331.0	313.4	290.9	278.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*392.4*	392.2	386.3	376.3	362.9	348.2	333.9	318.4	300.8	281.1	268.7
112.5°	*374.4*	374.0	368.3	358.0	345.7	333.7	319.4	305.2	289.0	270.8	259.0
115°	*356.1*	355.7	349.6	340.6	329.3	316.9	305.0	291.3	277.3	259.0	248.8
117.5°	*337.3*	336.8	331.8	323.0	312.3	302.4	290.5	278.7	264.5	247.9	237.6
120°	*318.0*	318.2	313.1	305.2	295.3	286.1	275.6	264.9	251.7	236.0	226.1
122.5°	*299.7*	298.3	294.9	287.8	279.0	270.4	261.5	250.6	238.3	223.4	214.8
125°	*280.2*	279.8	276.4	269.3	261.8	255.0	246.9	237.0	225.7	210.6	202.8
127.5°	*261.3*	262.0	258.2	252.9	245.6	239.9	231.6	223.0	212.0	198.4	191.1
130°	*243.7*	243.3	241.2	235.7	229.7	223.8	217.5	209.7	199.5	185.8	179.1
132.5°	*227.4*	225.5	223.6	219.0	213.9	209.1	203.7	195.9	185.4	173.5	167.6
135°	*209.5*	209.5	206.6	202.6	199.0	194.4	189.0	181.8	172.8	162.3	155.6
137.5°	*193.2*	192.3	190.4	187.3	183.9	180.6	176.0	168.8	160.9	150.8	144.9
140°	*177.7*	177.0	175.3	172.6	169.9	166.7	162.5	156.5	149.1	139.5	134.4
142.5°	*161.5*	161.9	160.5	158.6	155.4	153.3	149.5	144.1	137.6	129.2	124.4
145°	*147.0*	147.2	146.6	144.7	142.4	140.3	136.3	132.3	126.1	118.5	114.9
147.5°	*135.1*	134.2	133.0	131.9	129.8	128.2	125.0	121.2	115.4	108.9	105.5
150°	*121.6*	122.3	121.0	119.8	118.5	116.2	113.9	110.7	105.3	100.0	96.5
152.5°	*110.3*	110.7	109.7	109.1	107.8	105.9	103.6	100.7	96.5	91.9	88.5
155°	*100.3*	100.3	100.3	99.4	97.9	96.7	94.4	91.7	88.1	83.9	81.6
157.5°	*91.0*	91.2	91.2	90.2	89.1	88.1	86.2	83.9	80.8	77.2	75.5
160°	*83.7*	83.3	83.1	82.2	81.4	80.5	78.9	77.0	74.2	71.3	69.8
162.5°	*76.3*	76.3	75.9	75.3	74.7	73.4	72.4	70.5	68.6	66.5	64.8
165°	*70.7*	70.5	70.5	69.6	69.0	68.0	66.9	65.6	64.0	62.1	60.8
167.5°	*65.9*	65.4	65.2	64.8	64.0	63.3	62.3	61.2	60.0	58.7	57.7
170°	*61.2*	61.5	61.0	60.6	60.2	59.6	58.7	57.9	56.8	55.6	55.2
172.5°	*58.1*	57.9	57.7	57.3	56.8	56.2	55.8	55.0	54.3	53.5	53.1
175°	*55.2*	55.2	55.0	54.5	54.1	53.7	53.3	52.9	52.4	51.8	51.6
177.5°	*52.9*	52.9	52.9	52.4	52.2	52.0	51.6	51.4	51.2	50.8	50.8
180°	*50.5*	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	32.1	29.4	27.1	25.0	23.3	21.8	21.0	19.5	18.5	17.8
5°	36.1	32.1	28.7	25.4	22.9	20.1	17.4	14.7	13.0	12.8
7.5°	45.7	41.3	36.3	31.9	26.8	22.7	19.1	16.4	15.3	15.1
10°	57.9	51.4	44.7	38.2	31.7	26.4	22.7	20.1	18.9	18.7
12.5°	71.3	62.5	53.9	45.5	37.8	31.9	27.3	24.3	22.9	22.9
15°	85.2	74.2	63.3	53.1	44.0	36.7	31.0	27.3	25.6	25.4
17.5°	97.3	84.9	71.9	59.8	48.9	39.6	32.9	28.3	26.2	26.0
20°	111.2	95.4	80.5	65.4	52.6	41.9	34.0	28.7	26.0	25.8
22.5°	125.8	108.0	89.6	71.9	56.6	44.3	35.0	29.2	26.2	25.8
25°	142.4	121.0	98.8	78.4	60.6	46.4	36.1	29.6	26.4	26.0
27.5°	158.1	134.4	108.6	84.5	64.2	48.2	36.9	30.0	26.6	26.2
30°	174.9	147.7	118.3	91.0	68.0	50.1	37.8	30.2	26.6	26.2
32.5°	191.9	160.5	128.4	96.9	71.1	51.4	38.2	30.4	26.8	26.4
35°	210.0	174.3	137.8	103.0	74.0	52.6	38.6	30.6	26.8	26.4
37.5°	226.5	187.5	147.0	108.2	76.6	53.7	39.0	30.6	27.1	26.6
40°	241.4	199.5	155.2	112.8	78.7	54.3	39.2	30.8	27.3	26.8
42.5°	256.1	211.2	162.5	116.6	80.3	54.7	39.4	31.0	27.5	27.1
45°	269.1	221.1	169.3	120.2	81.6	55.2	39.6	31.3	27.7	27.3
47.5°	280.6	230.3	175.6	123.1	82.4	55.4	39.9	31.5	28.1	27.7
50°	291.7	239.1	180.4	125.4	83.3	55.6	39.9	31.9	28.7	28.3
52.5°	301.2	246.2	184.8	127.3	83.7	55.8	40.3	32.3	29.2	28.9
55°	309.4	252.5	188.8	128.8	84.1	55.8	40.7	32.9	30.0	29.6
57.5°	316.1	257.6	191.5	129.6	84.1	56.0	40.9	33.8	30.8	30.4
60°	322.0	262.0	194.0	130.7	84.3	56.2	41.5	34.6	31.9	31.7
62.5°	326.8	265.3	195.9	131.3	84.5	56.8	42.4	35.7	32.9	32.7
65°	330.6	268.3	197.4	131.7	84.7	57.3	43.2	36.7	34.4	34.2
67.5°	333.1	270.4	198.4	131.9	84.9	57.9	44.3	38.2	35.9	35.4
70°	*335.0*	*271.6*	*199.0*	*132.1*	*85.4*	*58.5*	*45.5*	*39.4*	*37.3*	*37.1*
71°	335.4	271.8	199.3	132.1	85.6	58.9	45.9	40.1	38.0	37.8
72.5°	335.6	272.0	199.3	132.1	85.8	59.6	46.8	41.1	39.0	38.8
75°	335.4	271.8	199.0	132.1	86.2	60.6	48.2	42.6	40.7	40.5
77.5°	333.9	271.0	198.4	132.1	86.8	61.9	49.9	44.7	42.6	42.4
80°	331.4	269.3	197.4	131.9	87.5	63.3	51.6	46.6	44.5	44.3
82.5°	328.0	266.8	195.9	131.9	88.3	64.6	53.3	48.2	46.6	46.4
85°	323.6	263.9	194.4	131.7	89.3	66.3	55.4	50.5	48.9	48.5
87.5°	318.4	260.3	192.8	131.7	90.4	68.2	57.5	52.6	51.0	50.5
90°	312.5	256.3	191.1	131.7	91.7	70.1	59.8	55.0	53.1	52.9
92.5°	306.6	252.5	189.4	131.9	93.3	72.2	62.1	57.5	55.6	55.6
95°	299.9	247.9	187.5	132.3	95.0	74.5	64.8	60.0	58.1	57.9
97.5°	293.2	243.7	186.0	133.0	96.9	77.2	67.3	62.7	60.8	60.4
100°	285.7	239.3	184.6	133.8	99.2	79.7	70.1	65.4	63.6	63.3
102.5°	278.3	234.5	182.9	134.9	101.5	82.6	73.0	68.2	66.3	66.1
105°	270.4	229.5	181.0	135.7	103.8	85.4	75.7	70.7	68.6	68.6
107.5°	262.6	224.2	179.1	136.8	106.1	88.1	78.2	73.2	70.9	70.7

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

Scaled Data Report

REPORT NUMBER: P1223949
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	253.8	218.5	176.8	137.4	108.2	90.4	80.5	75.1	72.8	72.6
112.5°	245.8	212.5	174.3	137.6	110.1	92.5	82.4	76.8	74.5	74.0
115°	235.7	206.2	170.9	137.2	111.2	94.2	83.7	77.8	75.3	74.9
117.5°	226.1	199.0	167.4	136.1	111.8	95.0	84.5	78.4	75.7	75.3
120°	216.2	191.1	162.3	134.2	111.2	95.0	84.5	78.0	75.3	75.1
122.5°	205.1	182.7	157.1	131.5	110.1	94.2	83.7	77.4	74.5	74.2
125°	193.6	173.7	150.8	127.7	108.0	92.9	82.4	76.1	73.2	73.0
127.5°	182.5	164.4	144.3	123.3	105.1	90.8	80.8	74.2	71.3	70.9
130°	171.6	154.8	137.0	118.1	101.5	88.1	78.4	72.4	69.4	69.0
132.5°	160.2	145.6	129.6	113.1	97.7	85.2	75.9	70.1	67.3	66.9
135°	149.5	135.9	121.6	107.0	93.3	81.8	73.2	67.7	65.0	64.8
137.5°	139.3	126.9	114.3	101.1	88.9	78.4	70.5	65.4	62.9	62.5
140°	128.8	118.1	106.8	95.4	84.1	74.9	67.7	62.9	60.6	60.2
142.5°	119.8	109.7	99.6	89.1	79.5	71.1	64.8	60.4	58.5	58.3
145°	110.3	101.5	92.5	83.5	75.1	67.7	62.1	58.3	56.4	56.2
147.5°	101.9	93.5	85.8	78.0	70.7	64.2	59.4	56.2	54.7	54.5
150°	93.3	86.6	79.9	72.8	66.5	61.0	57.0	54.3	52.9	52.6
152.5°	85.8	80.1	74.0	68.6	62.7	58.3	55.0	52.4	51.4	51.2
155°	79.3	74.5	69.4	64.4	59.8	56.2	53.3	51.2	50.3	50.3
157.5°	73.6	69.4	65.2	61.0	57.3	54.1	51.8	50.3	49.5	49.3
160°	68.2	64.8	61.0	57.9	55.0	52.6	50.8	49.5	48.9	48.7
162.5°	63.8	60.8	58.3	55.6	53.3	51.4	49.9	48.9	48.5	48.5
165°	60.0	57.9	55.6	53.7	51.8	50.3	49.3	48.7	48.2	48.2
167.5°	57.0	55.2	53.7	52.0	50.8	49.7	48.9	48.5	48.2	48.0
170°	54.5	53.3	52.0	51.0	49.9	49.3	48.7	48.5	48.2	48.2
172.5°	52.6	51.8	51.0	50.1	49.5	48.9	48.7	48.5	48.5	48.5
175°	51.2	50.8	50.1	49.7	49.3	49.1	48.9	48.9	48.9	48.9
177.5°	50.5	50.1	49.9	49.7	49.5	49.5	49.5	49.7	49.7	49.7
180°	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5

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

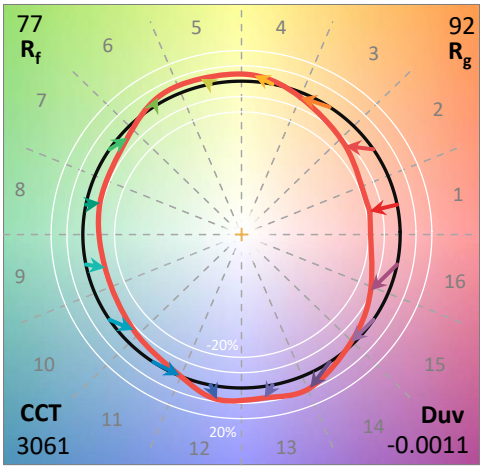
Test Information

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

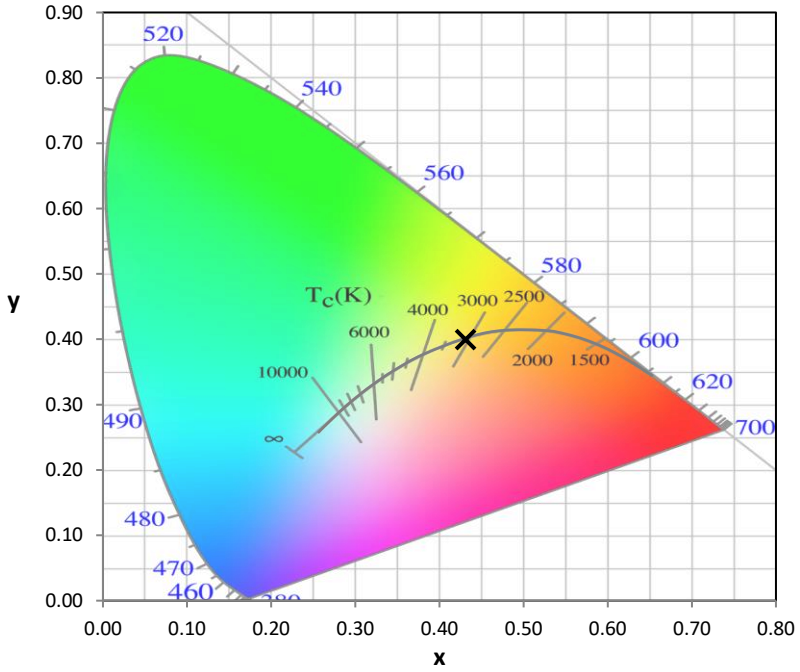
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

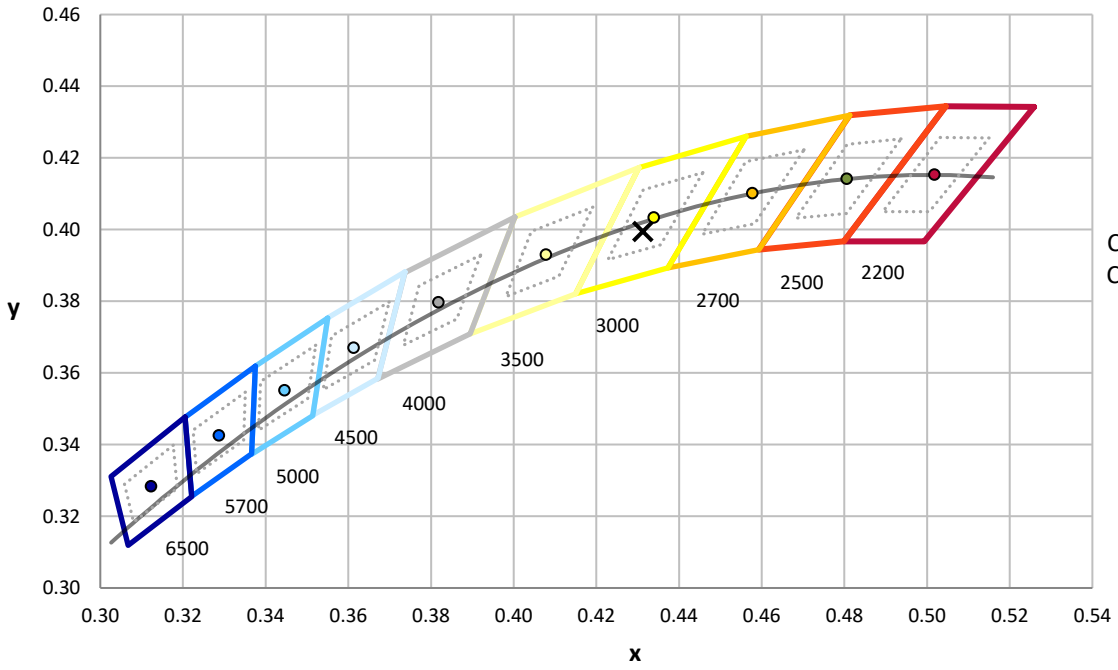
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

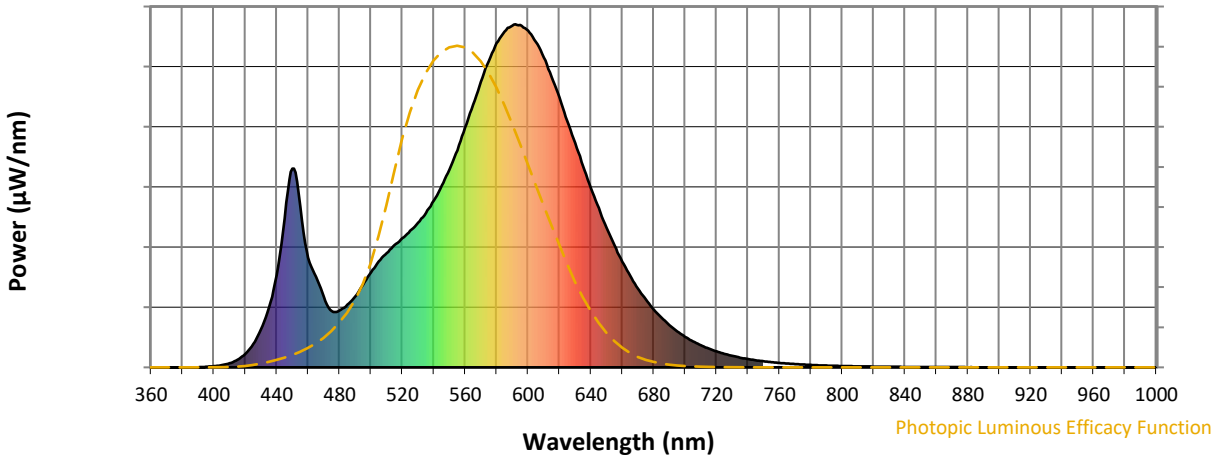


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

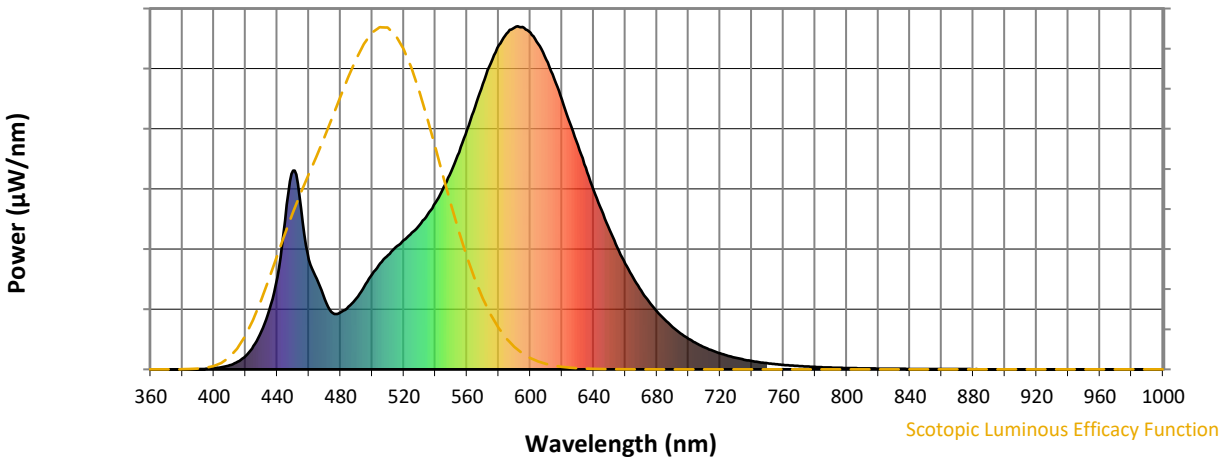


Photopic Lumens: NR

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

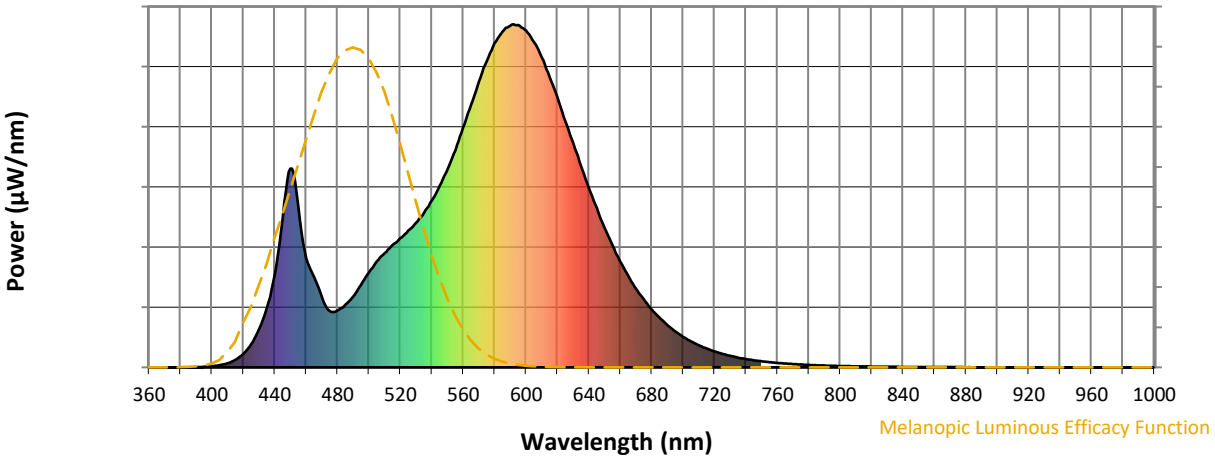


Scotopic Lumens: NR **S/P: 1.29**

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			

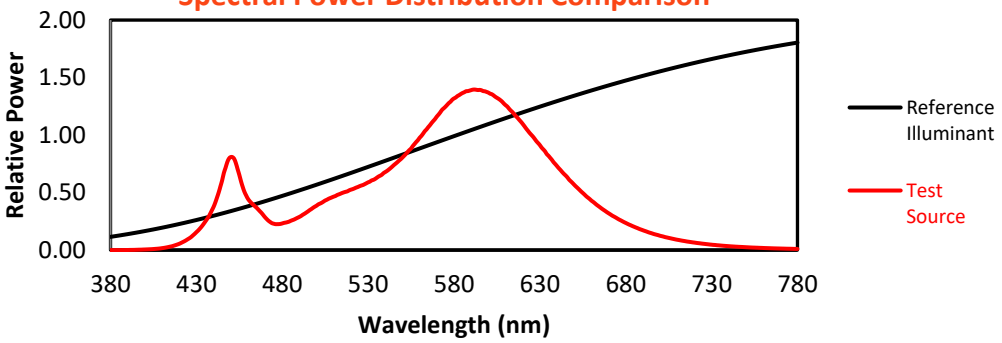
REPORT NUMBER: SP1-2501-332-4

TM-30-18

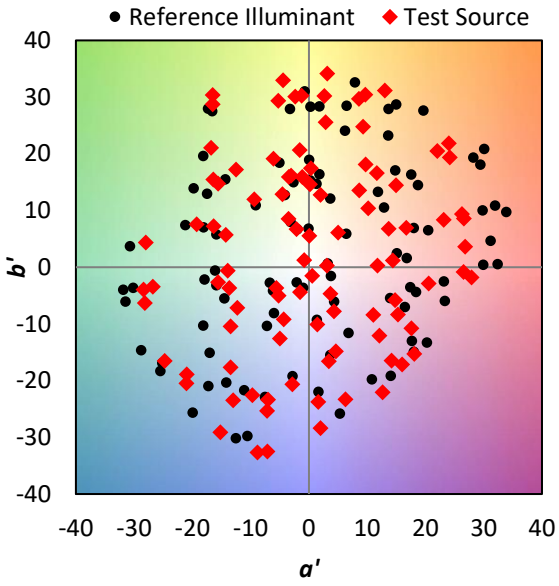
Summary

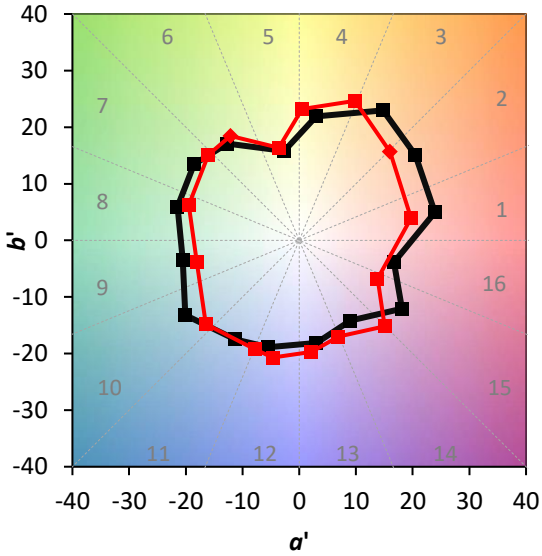
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

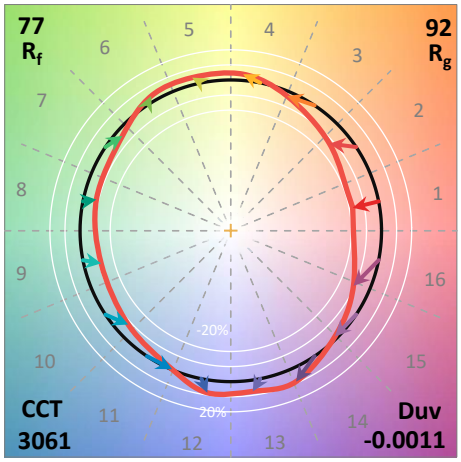
Spectral Power Distribution Comparison

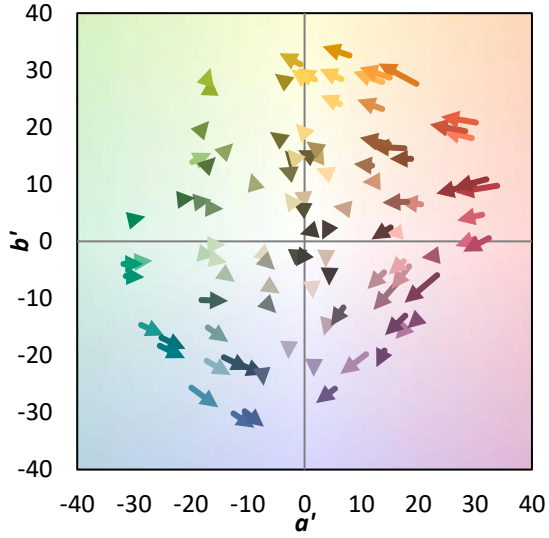


Color Vector Graphics







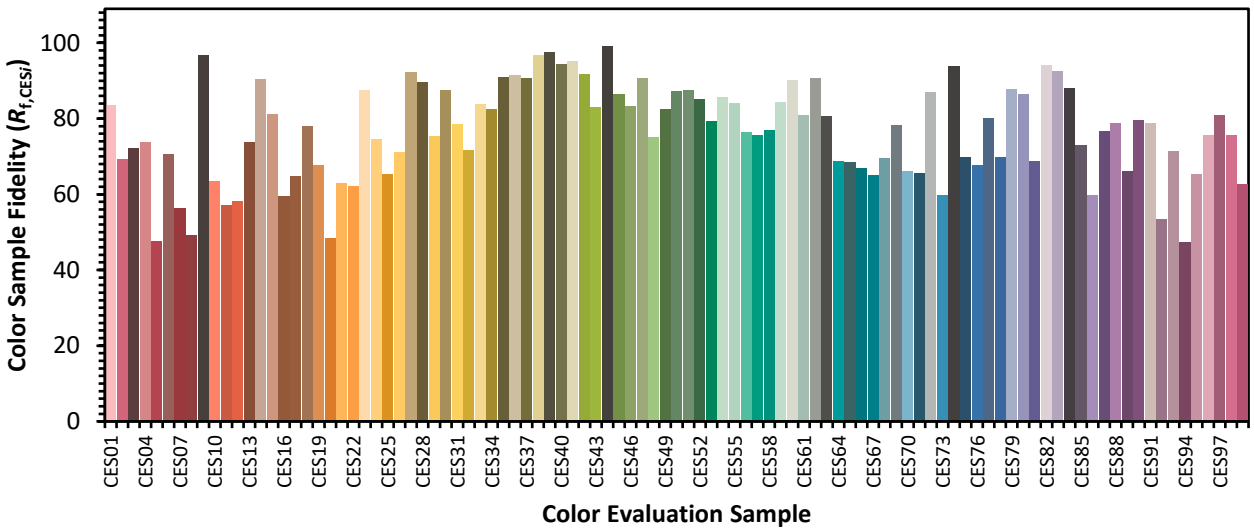


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

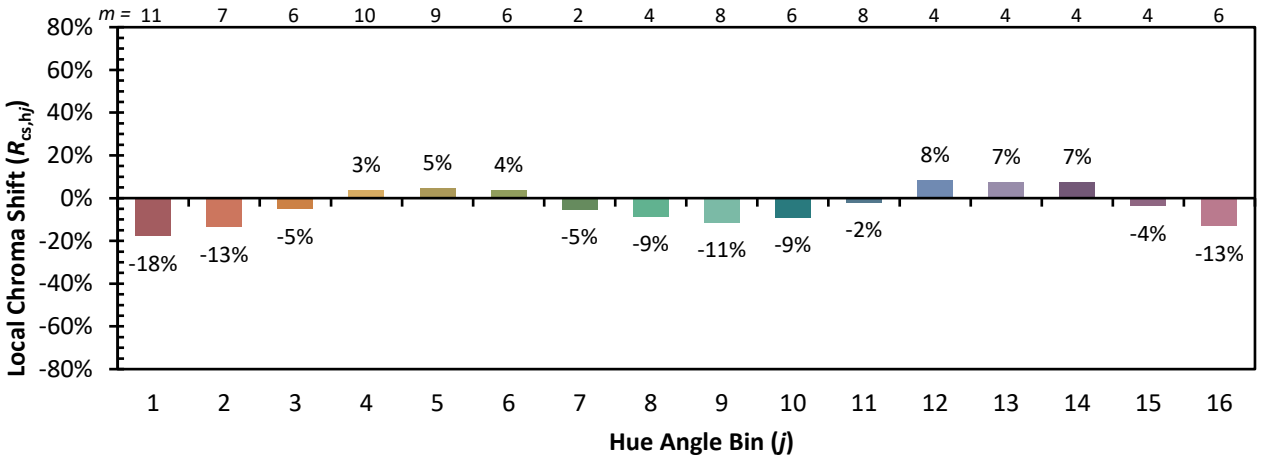
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 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	

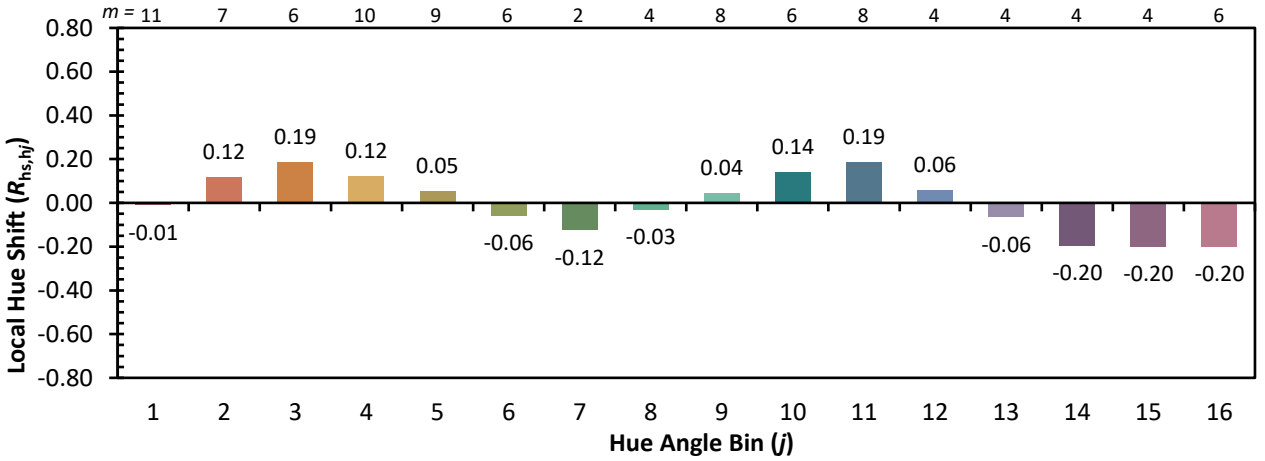


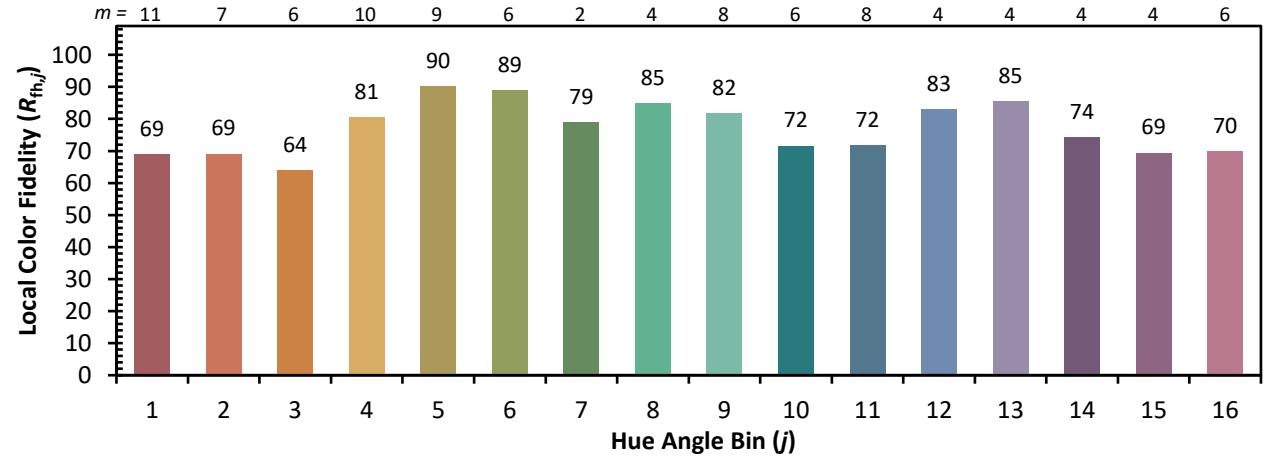
REPORT NUMBER: SP1-2501-332-4

TM-30-18

Color Rendition by Hue-Angle Bin



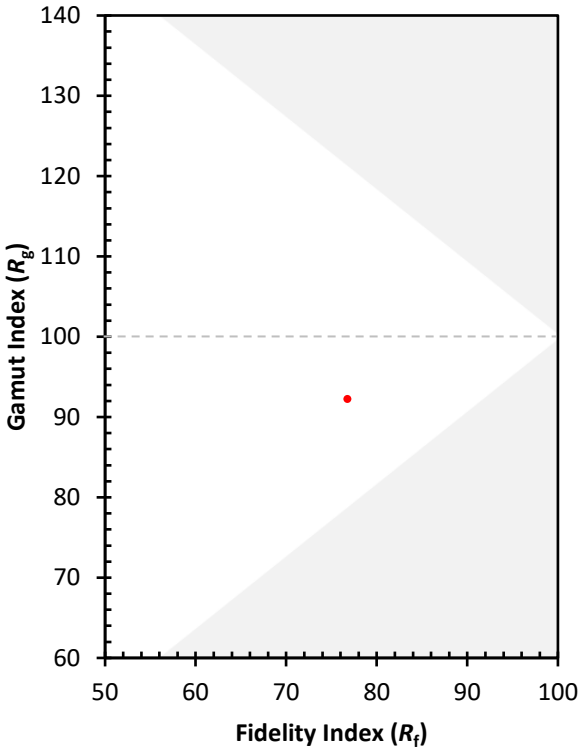


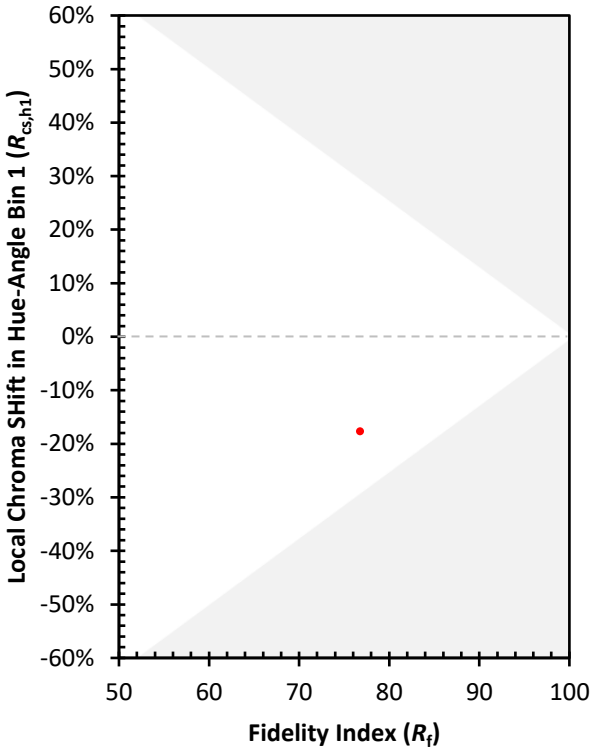


REPORT NUMBER: SP1-2501-332-4

TM-30-18

Measure Comparisons





(END OF REPORT)