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: P1224020

Luminaire Tested: **FFX-CLB-30-722-U-VM8-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1224020
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-722-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:	3629.4 lumens
Efficiency:	N/A
Efficacy:	118.6 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

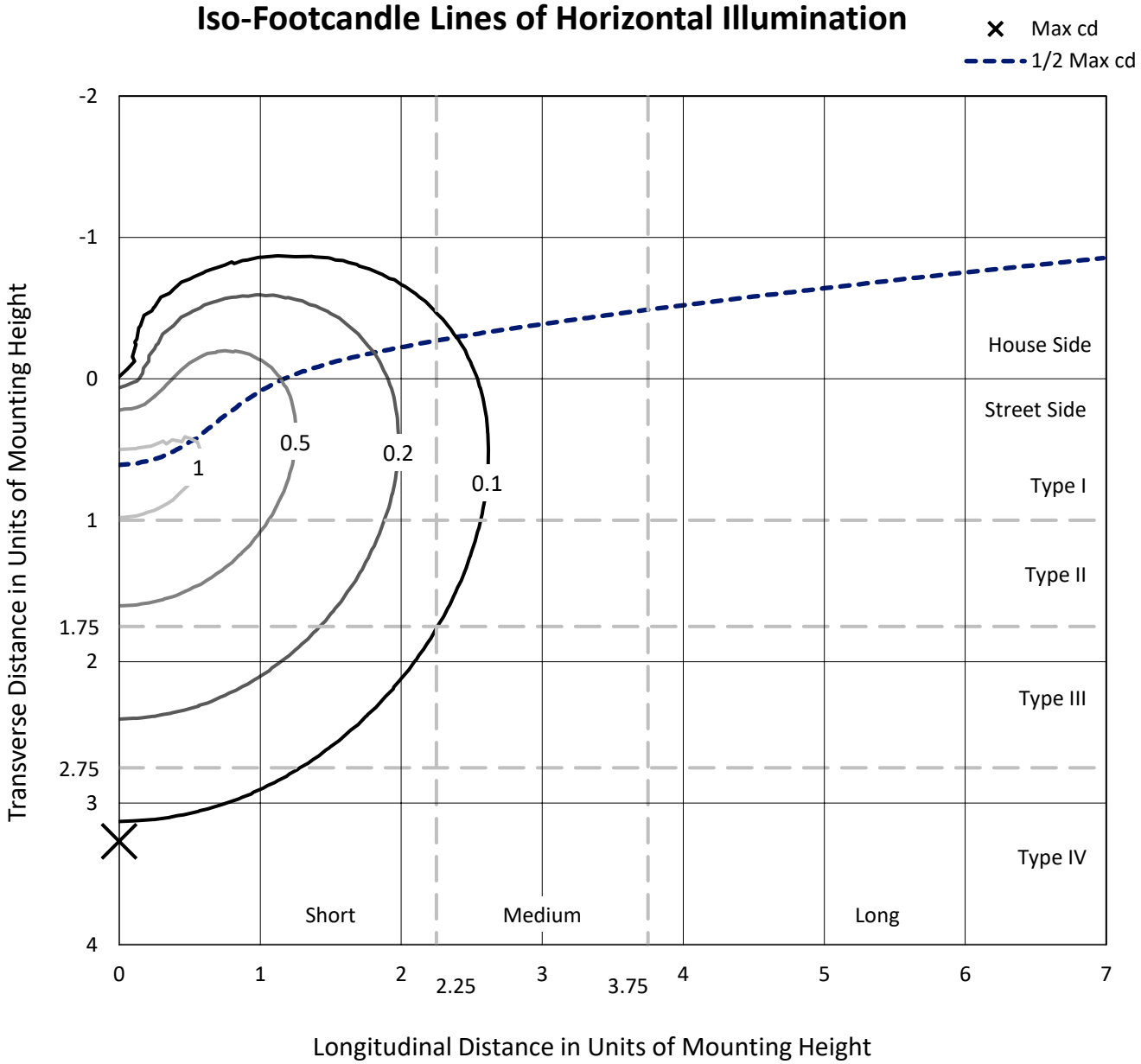


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Iso-Footcandle Lines of Horizontal Illumination



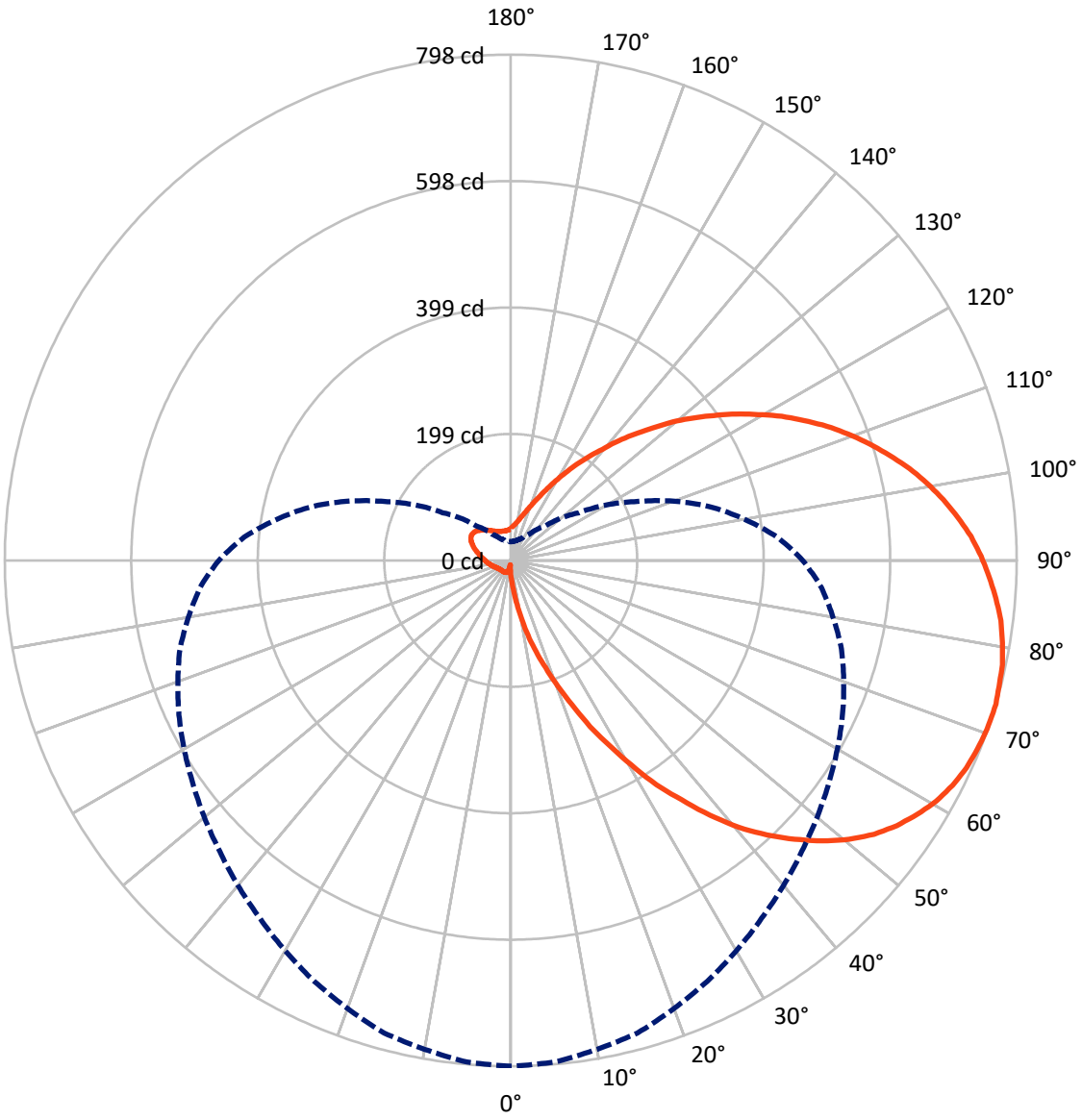
Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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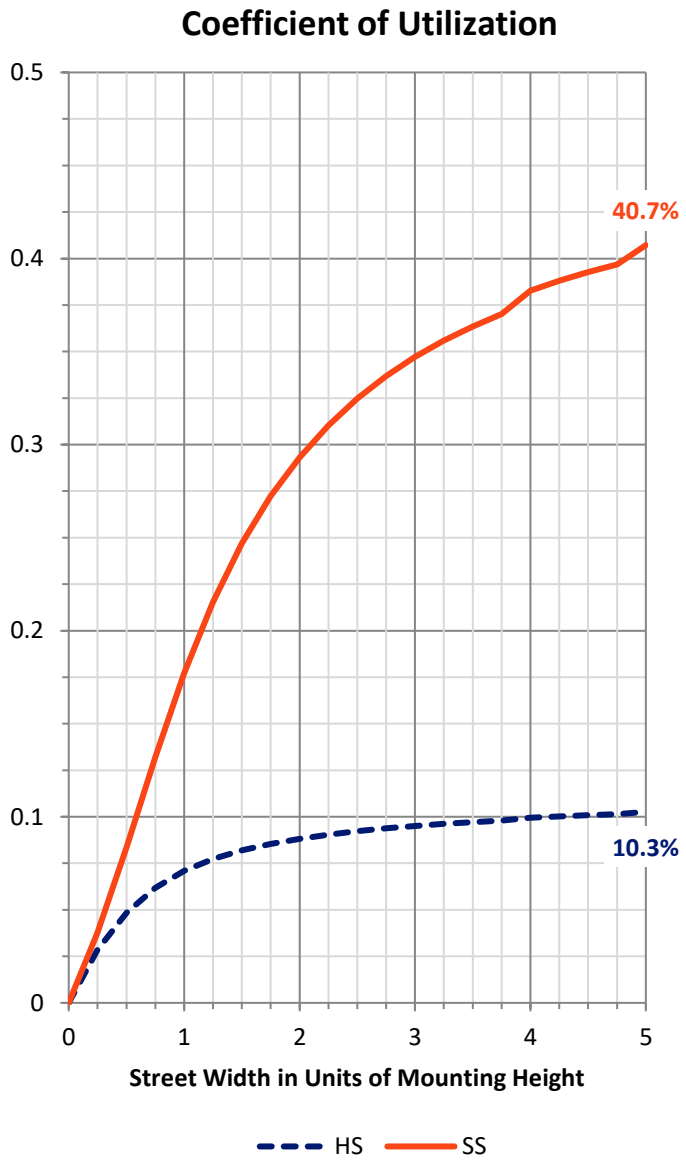
REPORT NUMBER: P1224020
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	402.0	395.0	797.0
	% Fixture	11.1	10.9	22.0
Street Side	Lumens	1695.0	1137.4	2832.4
	% Fixture	46.7	31.3	78.0
Total	Lumens	2097.0	1532.5	3629.4
	% Fixture	57.8	42.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	25.7	0.7
20°-30°	77.7	2.1
30°-40°	161.8	4.5
40°-50°	256.5	7.1
50°-60°	337.0	9.3
60°-70°	392.6	10.8
70°-80°	420.8	11.6
80°-90°	421.1	11.6
90°-100°	394.9	10.9
100°-110°	347.4	9.6
110°-120°	286.9	7.9
120°-130°	215.9	5.9
130°-140°	142.5	3.9
140°-150°	81.7	2.3
150°-160°	40.5	1.1
160°-170°	17.7	0.5
170°-180°	5.0	0.1
0°-90°	2097.0	57.8
0°-180°	3629.4	100.0



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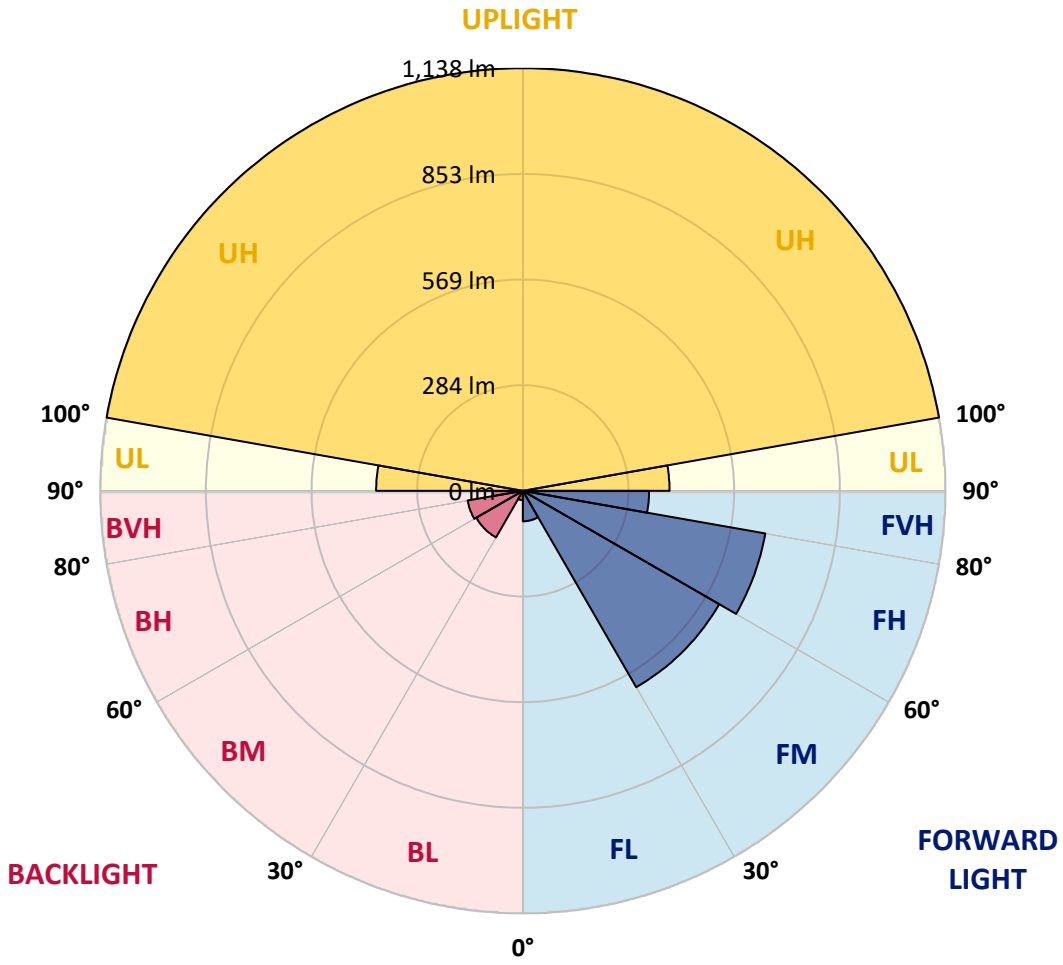
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	82.1	2.3			
FM	(30°-60°)	610.5	16.8			
FH	(60°-80°)	662.6	18.3			G1/1800
FVH	(80°-90°)	339.8	9.4			G3/500
BL	(0°-30°)	25.1	0.7	B0/110		
BM	(30°-60°)	144.8	4.0	B0/220		
BH	(60°-80°)	150.8	4.2	B1/500		G1/500
BVH	(80°-90°)	81.3	2.2			G1/100
UL	(90°-100°)	394.9	10.9		U3/500	
UH	(100°-180°)	1137.6	31.3		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
2.5°	32.7	33.0	32.7	33.2	32.0	32.0	31.0	30.0	28.8	27.3	26.3
5°	48.6	48.4	48.4	48.6	47.9	45.6	43.2	39.7	36.7	33.5	31.8
7.5°	70.0	69.0	68.0	67.7	65.2	62.0	58.5	54.6	50.4	45.9	42.7
10°	92.3	93.0	92.0	89.3	86.3	82.6	78.1	72.7	67.2	61.0	57.3
12.5°	121.1	119.1	116.6	113.9	110.9	107.4	100.2	94.0	86.3	78.6	73.7
15°	149.1	147.3	147.3	143.9	139.2	134.0	127.3	119.6	108.9	96.7	92.3
17.5°	177.9	178.1	175.6	171.7	167.4	160.7	153.5	142.6	131.7	119.1	111.4
20°	211.6	210.6	208.9	205.9	198.4	192.5	183.6	171.4	156.5	141.1	131.7
22.5°	246.6	247.1	247.1	242.4	235.4	227.2	217.1	203.2	185.5	165.7	154.3
25°	290.2	290.0	285.3	279.8	274.4	265.9	253.0	236.2	216.8	193.0	179.6
27.5°	329.9	329.7	328.7	323.7	315.5	304.6	289.5	271.1	249.1	220.5	204.6
30°	374.1	375.1	372.3	368.1	357.5	346.3	328.7	307.1	281.1	250.3	232.4
32.5°	421.9	420.0	417.7	412.3	400.6	385.0	365.1	342.8	314.3	279.1	259.5
35°	463.4	467.1	463.6	455.2	440.8	424.2	402.4	377.3	346.3	308.6	286.3
37.5°	510.0	509.3	504.1	495.9	482.0	460.9	437.8	408.8	374.1	334.9	310.1
40°	553.4	550.4	547.5	535.3	517.7	496.6	468.1	438.6	402.8	358.7	333.6
42.5°	591.9	591.6	583.7	571.5	549.5	526.1	496.6	463.6	426.4	380.8	352.5
45°	627.3	626.6	618.9	600.8	580.0	551.9	521.2	486.9	447.7	399.6	372.6
47.5°	660.8	658.8	648.2	629.8	603.5	574.0	542.3	506.3	465.9	416.5	388.2
50°	691.3	689.6	677.2	653.9	625.9	594.4	559.6	522.4	483.0	433.4	402.8
52.5°	717.4	714.4	700.0	675.0	643.0	609.7	573.5	536.3	496.4	445.3	415.7
55°	738.2	735.0	719.6	691.6	658.1	622.1	585.4	548.5	506.8	455.9	425.7
57.5°	755.6	753.1	736.2	705.5	669.8	632.8	595.6	557.9	516.5	465.9	434.4
60°	770.7	767.7	748.6	716.9	679.2	641.0	603.0	565.3	524.6	473.5	442.3
62.5°	781.4	779.2	759.1	725.1	685.9	647.2	608.0	571.5	530.8	480.5	448.2
65°	789.1	786.3	766.0	730.0	690.1	650.2	611.7	574.3	534.8	484.7	452.7
67.5°	793.5	791.6	770.2	733.5	691.8	651.7	613.5	577.0	538.0	488.2	456.2
70°	796.5	793.5	772.0	734.3	691.3	651.4	613.5	577.2	539.8	490.7	458.2
72.5°	797.3	794.0	771.7	733.0	689.9	648.9	612.2	577.5	540.3	491.9	460.2
73°	797.5	794.0	771.5	732.5	689.1	648.7	612.0	577.0	539.8	491.7	460.2
75°	794.8	792.5	769.5	729.5	686.6	646.2	610.2	575.7	539.8	491.9	459.9
77.5°	792.1	788.6	764.5	725.3	680.9	641.7	606.5	573.3	538.0	491.4	459.7
80°	785.6	782.1	758.1	717.4	673.7	635.3	601.3	569.3	534.8	488.7	457.7
82.5°	778.2	774.2	749.1	708.2	665.0	627.1	594.6	564.1	530.6	485.5	454.7
85°	767.2	764.3	738.7	697.0	655.1	618.7	586.9	557.9	525.1	480.5	450.2
87.5°	754.6	752.1	725.6	684.4	642.5	607.7	578.0	549.7	518.9	475.0	445.3
90°	741.4	738.5	711.9	670.0	630.1	595.8	567.6	541.0	511.3	468.3	438.8
92.5°	726.3	722.8	696.1	655.4	616.4	583.7	557.4	531.3	502.6	460.6	432.1
95°	708.0	704.7	678.2	637.5	599.3	569.5	544.0	519.9	492.4	451.5	423.9
97.5°	688.4	685.4	658.6	619.7	582.7	553.4	529.6	507.8	481.5	442.5	414.8
100°	667.3	663.3	636.8	599.3	562.8	536.3	515.0	495.4	469.6	431.4	404.8
102.5°	645.0	641.2	615.9	579.2	545.0	519.2	499.8	480.7	457.2	421.2	395.2
105°	619.7	617.7	592.1	556.6	524.6	500.8	482.7	466.1	443.8	408.8	385.0
107.5°	594.6	590.6	566.8	532.8	502.8	481.2	465.6	450.2	429.9	396.4	373.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*568.1*	564.1	542.8	510.3	482.5	461.9	447.5	433.9	415.5	384.2	362.9
112.5°	*541.3*	536.8	515.7	485.9	458.9	442.0	428.9	417.5	400.9	372.1	351.0
115°	*512.2*	510.5	489.9	461.4	437.6	421.7	410.3	399.9	384.2	358.9	339.6
117.5°	*483.7*	480.5	462.6	436.3	414.3	399.4	390.7	381.5	367.4	343.6	326.7
120°	*453.0*	452.2	435.1	410.5	389.9	378.3	369.9	362.2	349.8	328.2	312.3
122.5°	*423.9*	422.4	406.1	384.0	366.9	356.0	349.3	342.6	331.9	311.8	296.9
125°	*393.2*	391.4	378.5	360.4	344.1	333.6	327.2	322.0	312.3	294.2	280.3
127.5°	*364.6*	362.9	351.3	333.9	321.0	311.6	305.6	300.9	291.2	275.6	263.4
130°	*336.4*	333.4	323.2	309.3	296.4	290.0	284.0	280.6	270.6	256.0	245.3
132.5°	*306.1*	304.6	297.4	284.5	274.1	267.4	262.2	257.7	250.0	236.6	227.0
135°	*279.3*	277.8	271.1	260.2	253.0	246.8	242.1	237.4	229.5	216.6	208.4
137.5°	*253.8*	252.5	246.6	239.1	230.0	226.2	223.0	217.3	210.4	198.7	191.3
140°	*227.0*	227.5	222.8	216.1	210.4	205.9	202.7	198.0	191.0	181.1	173.6
142.5°	*204.9*	205.6	199.9	195.2	190.0	186.5	183.3	179.3	172.6	163.7	158.0
145°	*184.1*	182.3	180.1	175.6	170.7	168.4	165.2	161.7	156.5	147.6	142.9
147.5°	*163.0*	162.5	160.2	157.3	153.3	149.8	147.3	145.4	140.2	132.7	128.5
150°	*143.9*	143.4	142.1	139.9	136.4	134.2	132.2	129.5	124.5	118.8	115.1
152.5°	*127.0*	127.0	126.3	123.3	121.8	119.3	116.8	115.3	110.4	105.7	102.4
155°	*112.4*	112.4	111.4	109.9	107.2	105.7	104.2	102.0	98.5	94.8	91.8
157.5°	*99.7*	100.0	98.7	97.5	95.5	94.3	92.8	90.5	88.3	84.8	82.6
160°	*88.6*	88.8	88.3	87.3	85.3	84.1	82.9	81.1	79.1	76.4	74.4
162.5°	*79.6*	79.4	78.9	77.9	76.7	75.9	74.4	73.2	71.4	69.5	67.7
165°	*72.7*	71.9	71.7	70.9	69.7	69.0	67.7	66.7	65.5	63.5	62.8
167.5°	*66.5*	66.5	66.0	65.5	64.5	63.5	62.5	61.8	60.8	59.5	58.5
170°	*61.5*	61.5	61.0	60.5	59.5	59.0	58.3	57.5	56.8	55.8	55.3
172.5°	*57.5*	57.5	57.3	56.6	56.1	55.3	55.1	54.3	53.6	53.1	52.6
175°	*54.6*	54.6	54.1	53.6	53.1	52.6	52.1	51.8	51.6	51.1	50.9
177.5°	*52.3*	52.1	51.8	51.3	50.9	50.6	50.4	50.1	50.1	49.9	49.6
180°	*49.4*	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
2.5°	25.3	23.1	20.6	18.4	17.1	15.4	14.4	13.9	14.4	13.6
5°	30.0	26.0	22.1	19.1	15.9	13.4	11.2	8.9	7.4	7.2
7.5°	39.9	35.5	30.0	25.1	20.6	16.6	13.1	10.4	8.4	8.2
10°	52.8	46.1	39.2	32.2	25.8	20.6	16.4	13.4	12.4	12.2
12.5°	69.0	59.3	49.6	40.4	32.5	25.6	20.8	17.6	16.1	15.9
15°	85.8	73.7	61.3	49.4	38.7	30.3	24.3	20.8	19.1	18.9
17.5°	103.9	88.1	71.2	57.3	44.7	34.5	27.0	22.3	20.3	19.8
20°	122.3	102.4	83.1	65.0	49.6	37.2	28.5	23.1	20.6	20.1
22.5°	142.9	119.1	95.0	72.4	54.1	39.9	29.8	23.6	20.8	20.3
25°	166.2	135.9	107.4	81.1	59.0	42.4	31.0	24.3	21.1	20.6
27.5°	190.0	154.8	120.1	88.8	63.3	44.2	32.0	24.6	21.3	20.8
30°	214.1	173.6	133.0	96.2	67.0	46.1	32.5	24.8	21.3	21.1
32.5°	239.1	191.3	145.4	103.2	70.2	47.4	33.0	25.1	21.6	21.1
35°	261.7	209.9	157.0	109.9	73.2	48.4	33.2	25.1	21.6	21.1
37.5°	283.3	225.7	167.7	115.3	75.4	49.1	33.5	25.1	21.6	21.1
40°	305.9	242.6	177.4	120.3	77.1	49.6	33.5	25.1	21.6	21.3
42.5°	324.2	256.7	185.5	123.8	78.4	49.6	33.5	25.1	21.8	21.3
45°	340.8	268.4	193.5	127.0	79.1	49.6	33.2	25.3	21.8	21.6
47.5°	355.2	280.1	199.4	129.2	79.4	49.6	33.2	25.3	22.1	21.8
50°	368.6	289.5	204.6	131.0	79.6	49.4	33.2	25.6	22.3	21.8
52.5°	380.0	297.2	208.9	132.0	79.1	48.9	33.2	25.8	22.8	22.3
55°	389.7	304.4	211.8	132.5	78.6	48.6	33.2	26.0	23.1	22.8
57.5°	397.6	310.1	214.6	132.7	78.1	48.4	33.5	26.5	23.8	23.6
60°	404.8	314.8	216.6	132.7	77.6	48.1	33.7	27.0	24.3	24.1
62.5°	410.5	318.5	218.0	132.5	77.4	48.1	34.2	27.8	25.1	24.8
65°	414.5	321.2	218.8	132.0	76.9	48.4	34.7	28.5	26.0	25.8
67.5°	418.2	323.7	219.3	131.7	76.7	48.6	35.5	29.5	27.0	26.8
70°	420.5	325.2	219.5	131.5	76.4	49.1	36.2	30.5	28.3	28.0
72.5°	421.5	326.2	219.8	131.0	76.7	49.6	37.2	31.5	29.5	29.3
73°	*421.7*	*326.2*	*219.5*	*131.0*	*76.7*	*49.9*	*37.5*	*32.0*	*29.8*	*29.5*
75°	422.2	326.2	219.3	130.7	76.9	50.4	38.2	33.0	30.8	30.8
77.5°	421.5	325.7	218.8	130.5	77.1	51.3	39.4	34.2	32.2	32.0
80°	420.0	324.5	218.0	130.5	77.6	52.3	40.9	35.7	33.7	33.5
82.5°	416.7	322.2	217.1	130.2	78.4	53.6	42.4	37.2	35.5	35.2
85°	413.5	319.5	215.6	130.2	79.4	55.1	43.9	38.9	37.2	37.0
87.5°	408.6	316.3	214.1	130.0	80.4	56.3	45.4	40.7	38.7	38.7
90°	402.8	312.8	212.6	130.2	81.4	58.0	47.4	42.7	40.7	40.4
92.5°	397.1	308.8	210.9	130.7	83.1	59.8	49.4	44.7	42.7	42.2
95°	389.5	303.4	208.9	131.0	84.6	61.8	51.3	46.6	44.7	44.7
97.5°	381.5	298.4	206.6	131.7	86.6	64.2	54.1	49.1	47.1	47.1
100°	373.1	293.2	205.1	132.5	88.6	67.0	56.6	51.6	49.6	49.6
102.5°	364.2	287.5	203.7	134.0	91.5	69.7	59.5	54.6	52.3	52.3
105°	355.0	282.0	202.2	135.7	94.5	73.2	62.8	57.8	55.6	55.6
107.5°	346.0	276.8	200.9	137.9	97.7	76.7	66.0	61.0	58.8	58.3

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

Scaled Data Report

REPORT NUMBER: P1224020
CATALOG NUMBER: FFX-CLB-30-722-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	336.6	271.4	199.9	140.2	101.5	80.6	70.0	64.2	61.8	61.8
112.5°	326.4	265.7	199.2	142.4	105.4	84.6	73.4	67.7	65.2	64.7
115°	315.8	260.0	197.7	144.9	108.9	88.6	77.1	70.7	68.0	67.7
117.5°	305.4	253.3	196.0	146.6	112.1	91.8	80.1	73.7	70.7	70.4
120°	293.2	245.8	193.0	147.1	114.6	94.3	82.6	75.7	72.7	72.2
122.5°	279.8	236.2	188.8	146.6	115.8	96.0	84.1	77.1	73.7	73.4
125°	264.7	225.5	183.3	144.9	116.1	96.7	84.6	77.4	74.2	73.7
127.5°	248.8	214.8	176.1	141.4	114.6	96.2	84.1	76.9	73.4	73.2
130°	232.4	202.2	167.7	136.9	112.1	94.5	82.9	75.7	72.2	71.9
132.5°	216.1	188.8	158.5	131.0	108.7	91.8	80.6	73.7	70.4	70.0
135°	198.4	175.6	149.1	124.8	103.9	88.8	77.9	71.2	68.0	67.7
137.5°	182.3	162.0	139.4	117.8	99.5	84.8	74.9	68.7	66.0	65.5
140°	166.4	148.8	129.0	110.4	93.8	80.9	71.4	66.0	63.3	63.0
142.5°	151.8	136.7	119.8	103.2	88.6	76.9	68.5	63.3	61.0	60.5
145°	136.7	124.0	110.1	95.8	82.9	72.7	65.2	60.5	58.5	58.0
147.5°	123.5	112.4	100.5	88.3	77.6	68.5	62.0	58.0	56.3	56.1
150°	111.1	101.7	91.3	81.4	71.9	64.5	59.0	55.6	54.1	53.8
152.5°	100.0	91.8	83.3	74.9	67.0	61.0	56.3	53.3	52.1	52.1
155°	89.5	82.9	76.2	69.2	63.0	58.0	54.3	51.8	50.9	50.6
157.5°	80.6	75.4	70.0	64.2	59.5	55.3	52.3	50.6	49.6	49.6
160°	72.9	69.0	64.5	60.3	56.6	53.1	50.9	49.4	48.6	48.6
162.5°	66.7	63.5	60.0	56.8	53.6	51.3	49.6	48.6	48.1	48.1
165°	61.5	59.3	56.8	54.1	51.8	50.1	48.9	48.1	47.9	47.9
167.5°	57.8	55.8	53.8	52.1	50.6	49.1	48.4	47.9	47.9	47.6
170°	54.6	53.3	51.6	50.4	49.1	48.4	47.9	47.6	47.6	47.4
172.5°	52.1	51.1	50.1	49.1	48.4	47.9	47.6	47.6	47.6	47.6
175°	50.6	49.9	49.1	48.6	48.1	47.6	47.6	47.9	47.9	47.9
177.5°	49.4	49.1	48.6	48.4	48.1	48.1	48.1	48.4	48.6	48.6
180°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4

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

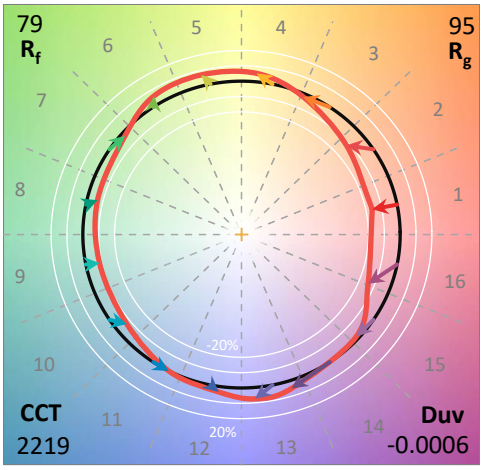
Test Information

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

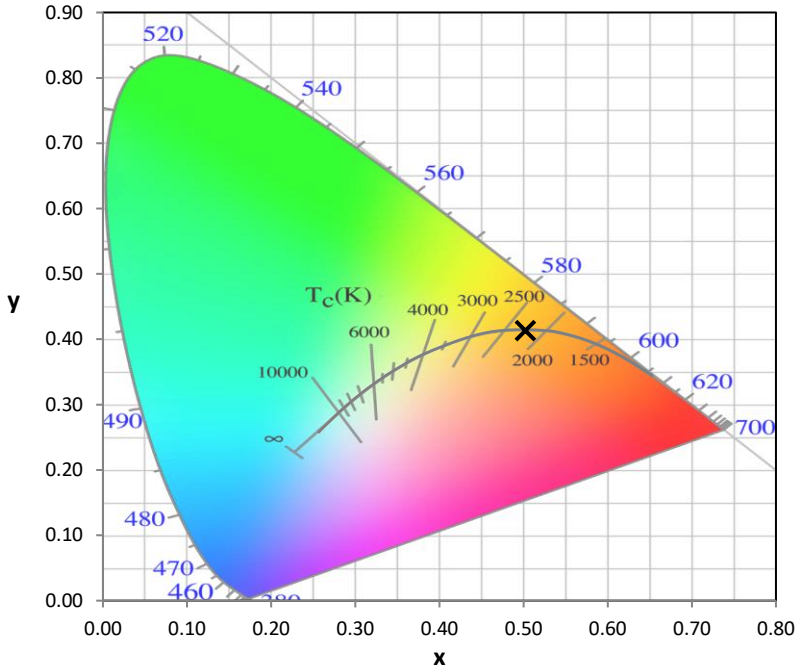
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

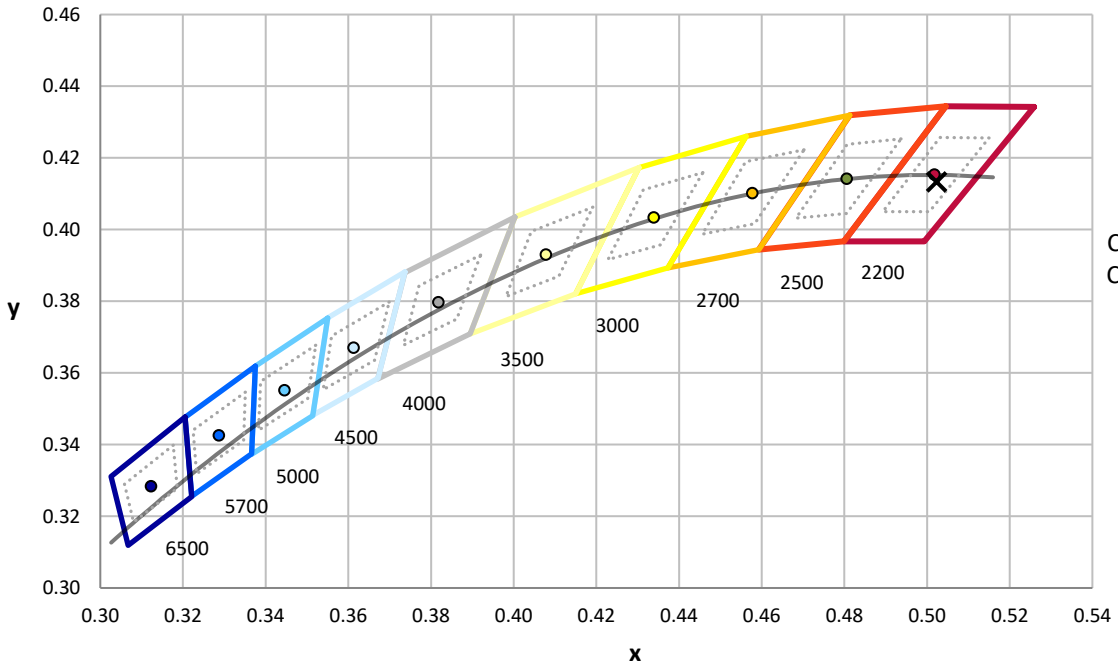
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

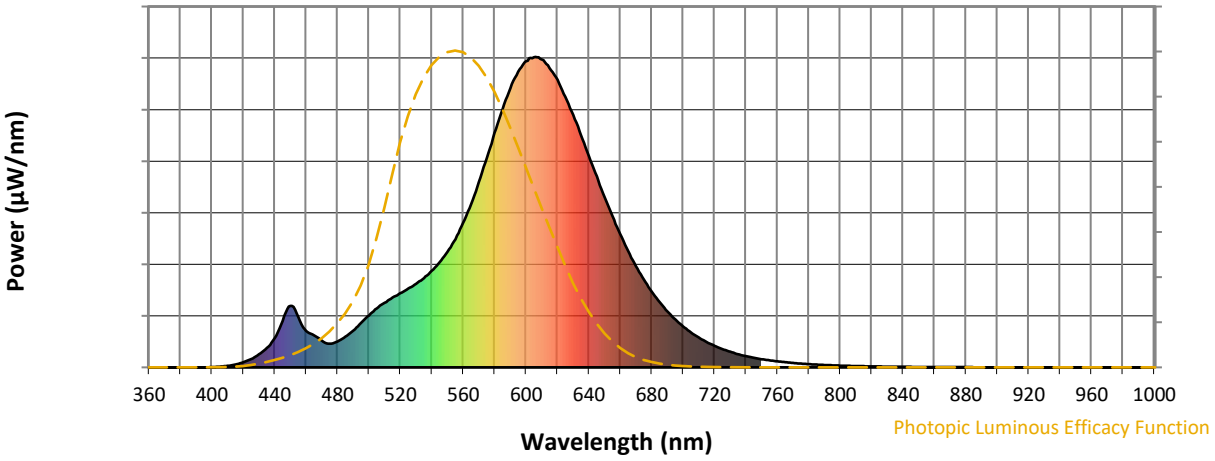


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

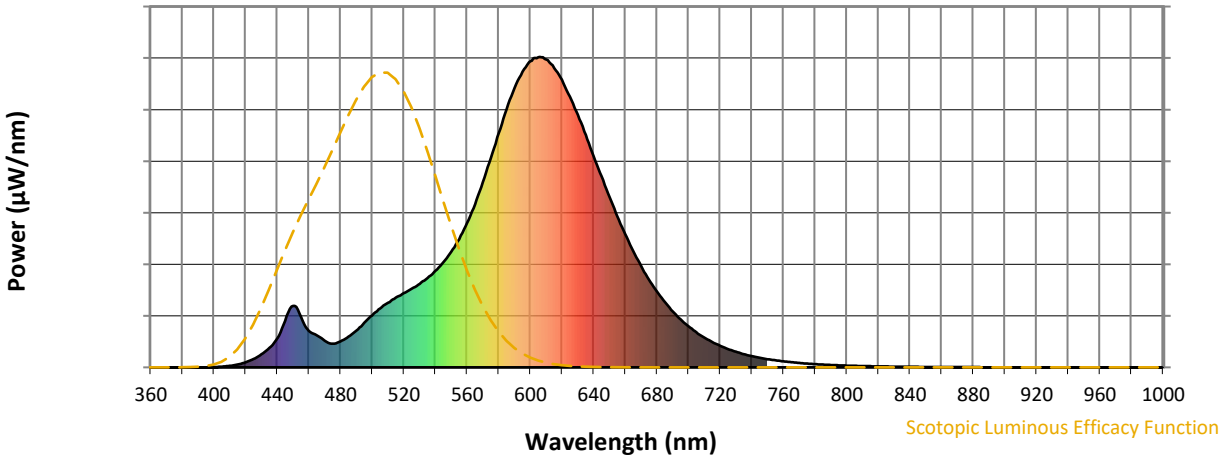


Photopic Lumens: NR

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

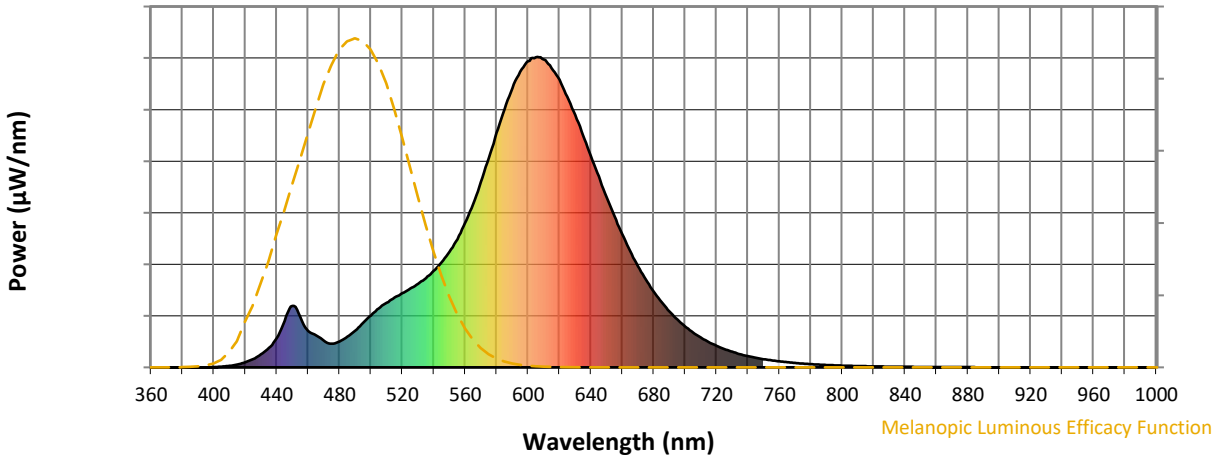


Scotopic Lumens: NR **S/P: 0.94**

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			

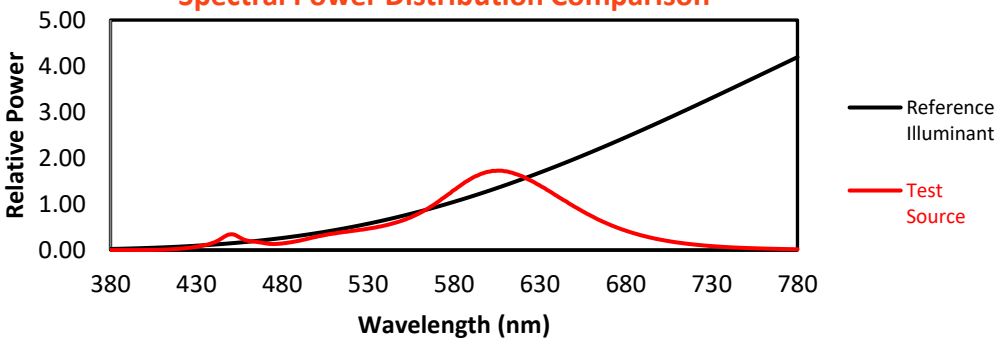
REPORT NUMBER: SP1-2501-332-2

TM-30-18

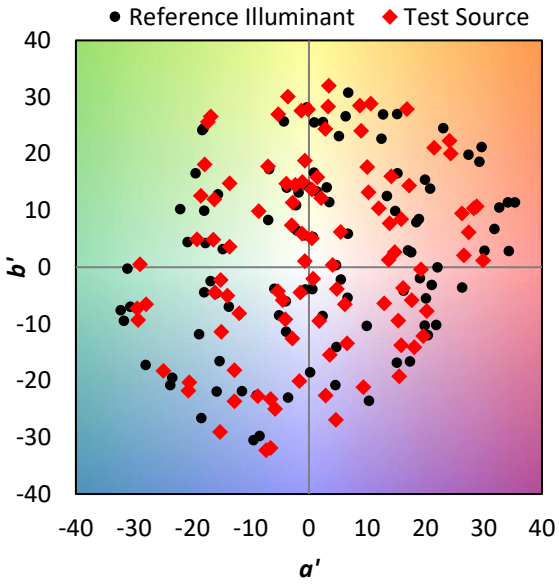
Summary

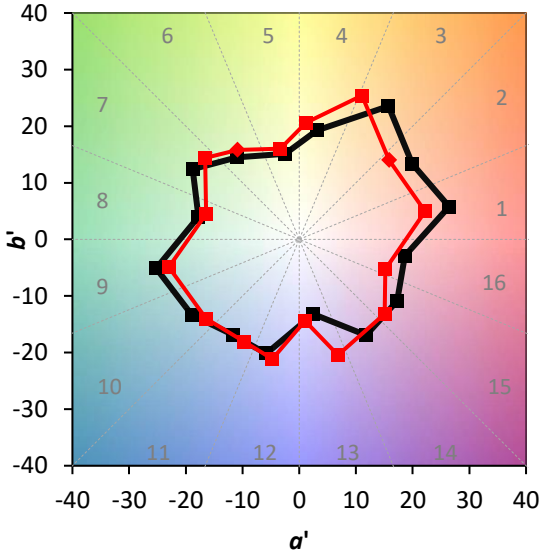
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

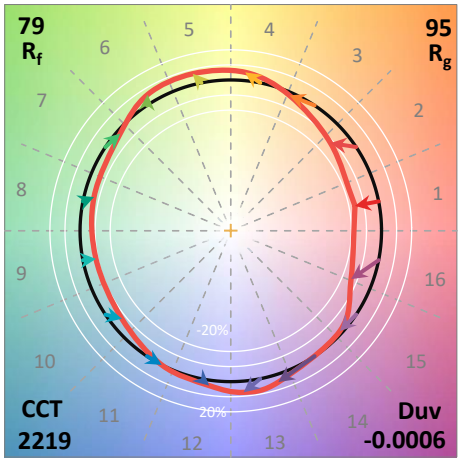
Spectral Power Distribution Comparison

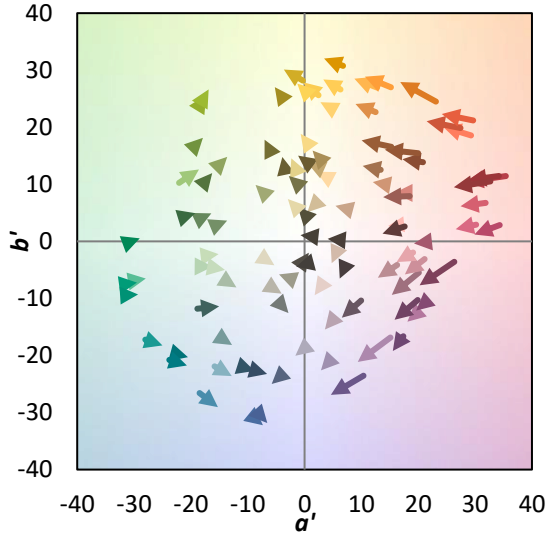


Color Vector Graphics







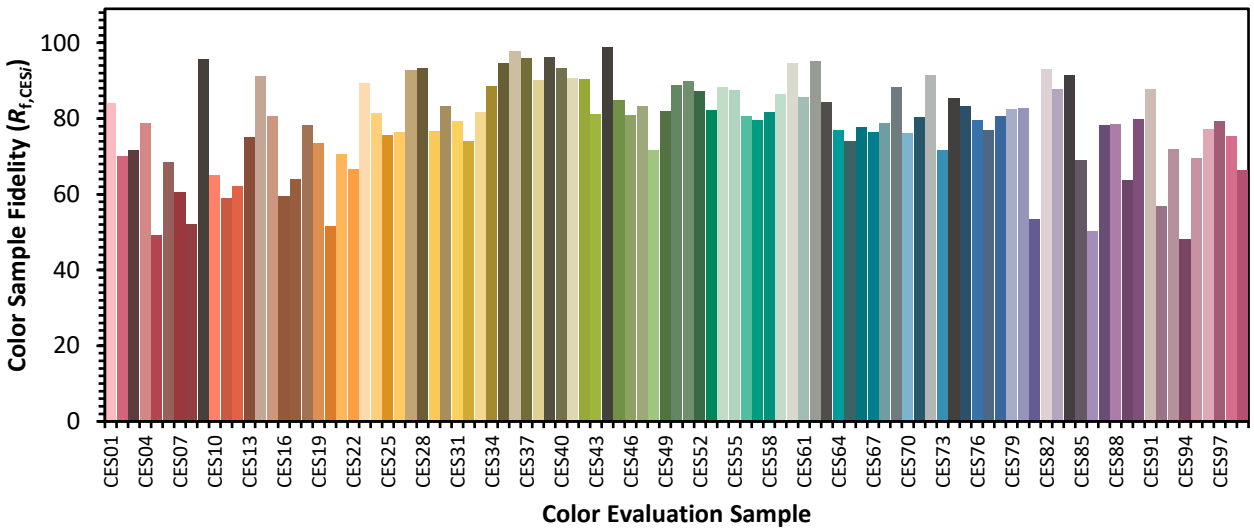


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

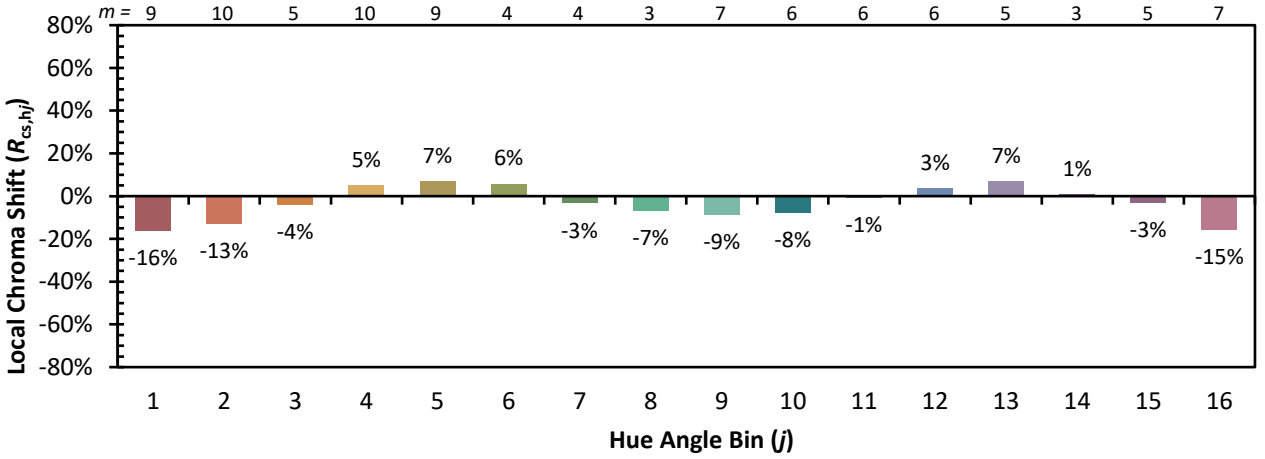
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 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	

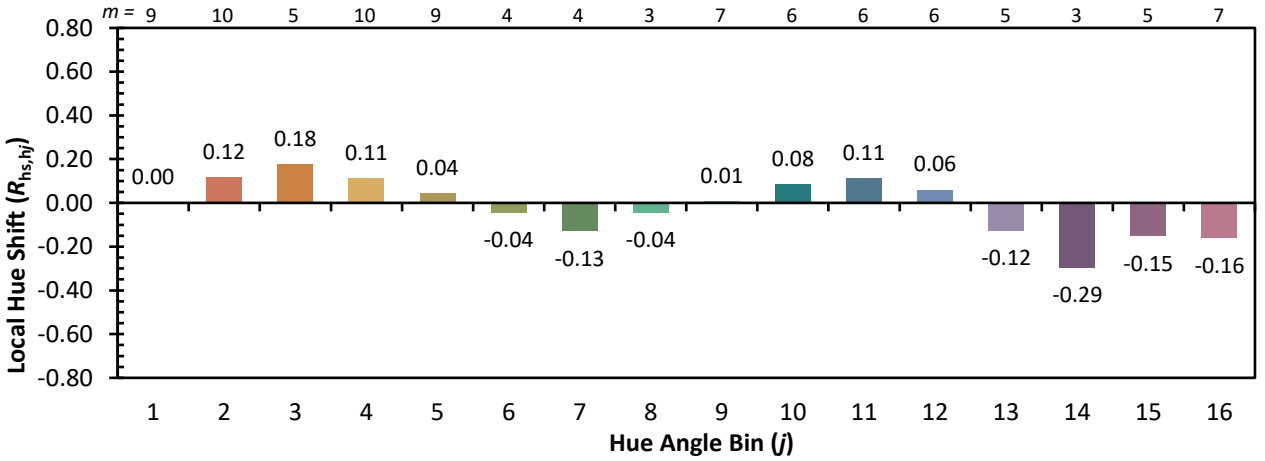


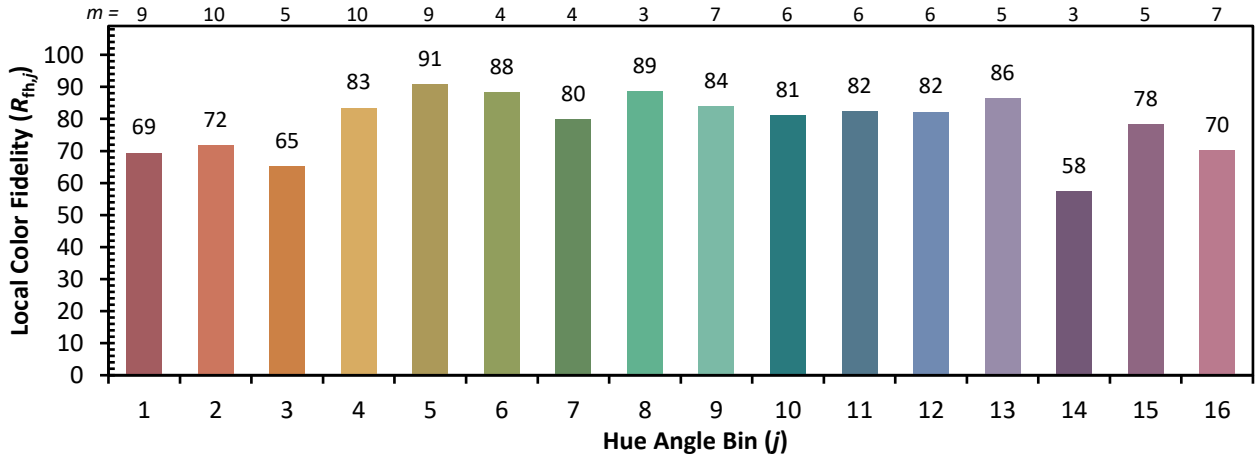
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



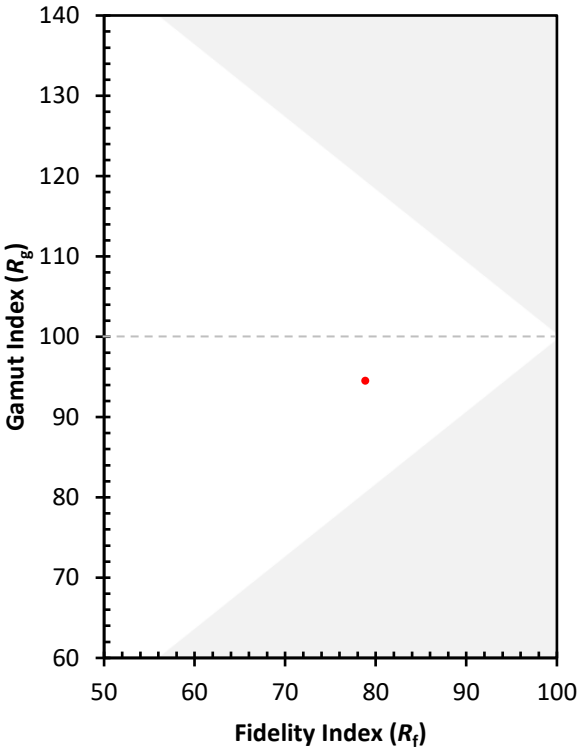


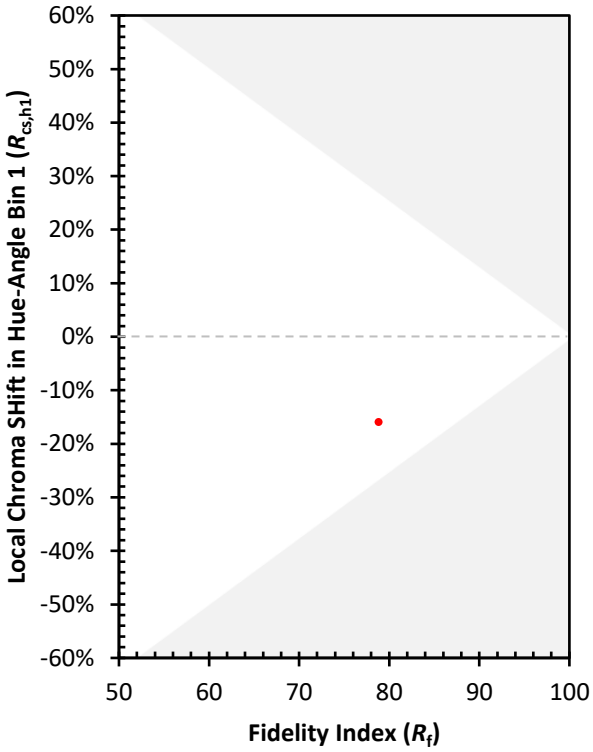


REPORT NUMBER: SP1-2501-332-2

TM-30-18

Measure Comparisons





(END OF REPORT)