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: P1224038

Luminaire Tested: **FFX-CLB-30-730-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:	P1224038
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4310 lumens
Efficiency:	N/A
Efficacy:	140.8 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

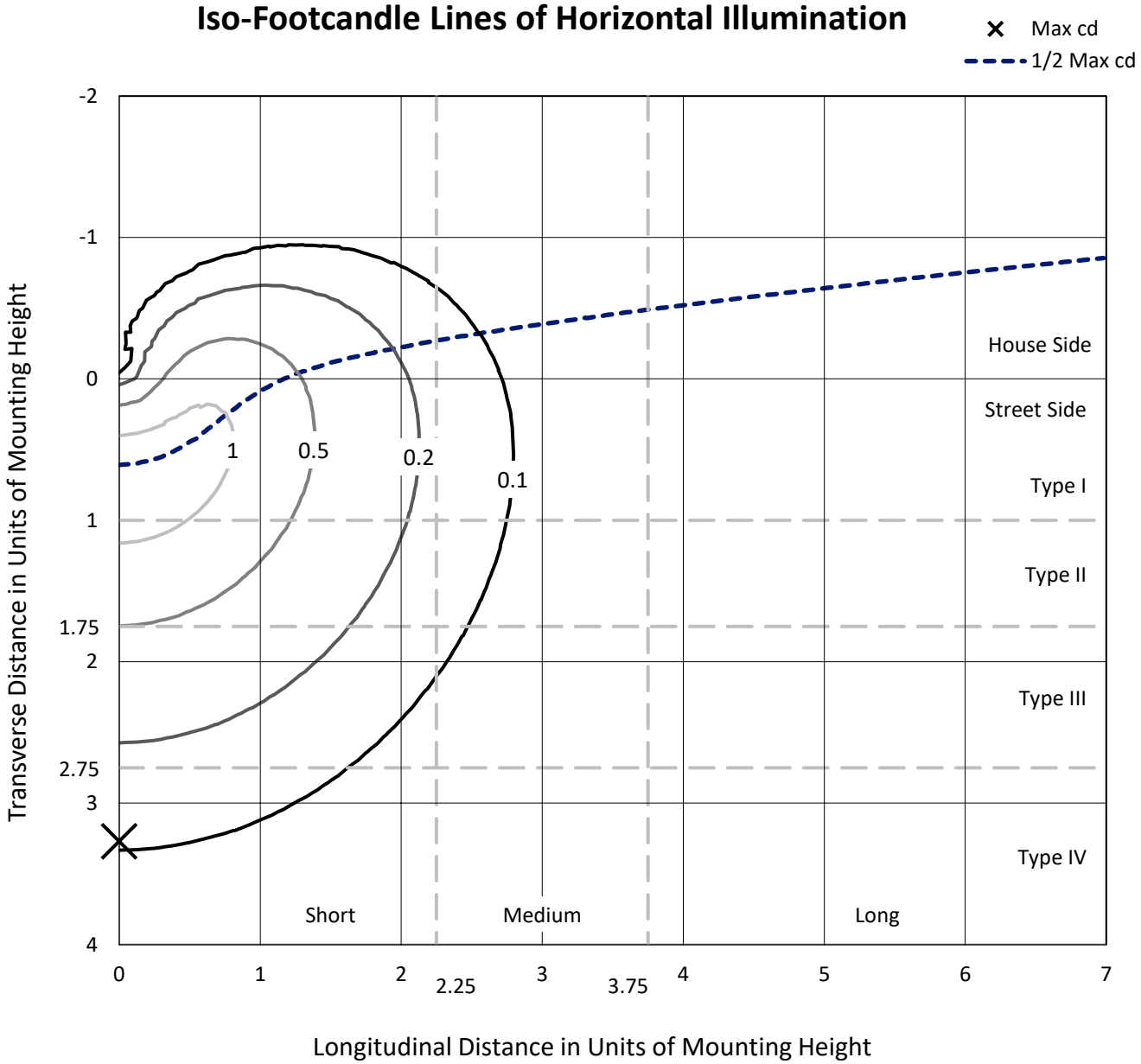


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Iso-Footcandle Lines of Horizontal Illumination



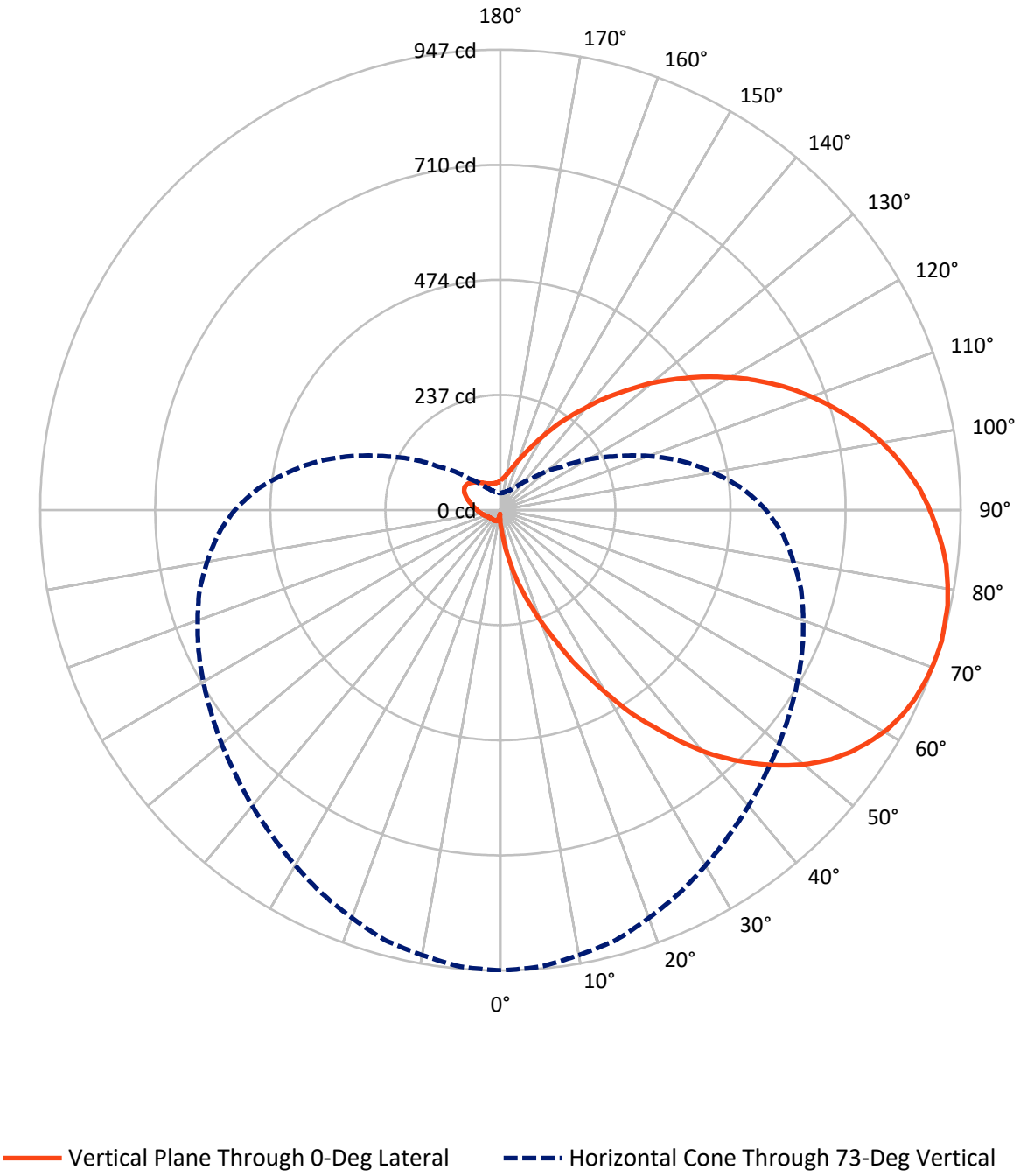
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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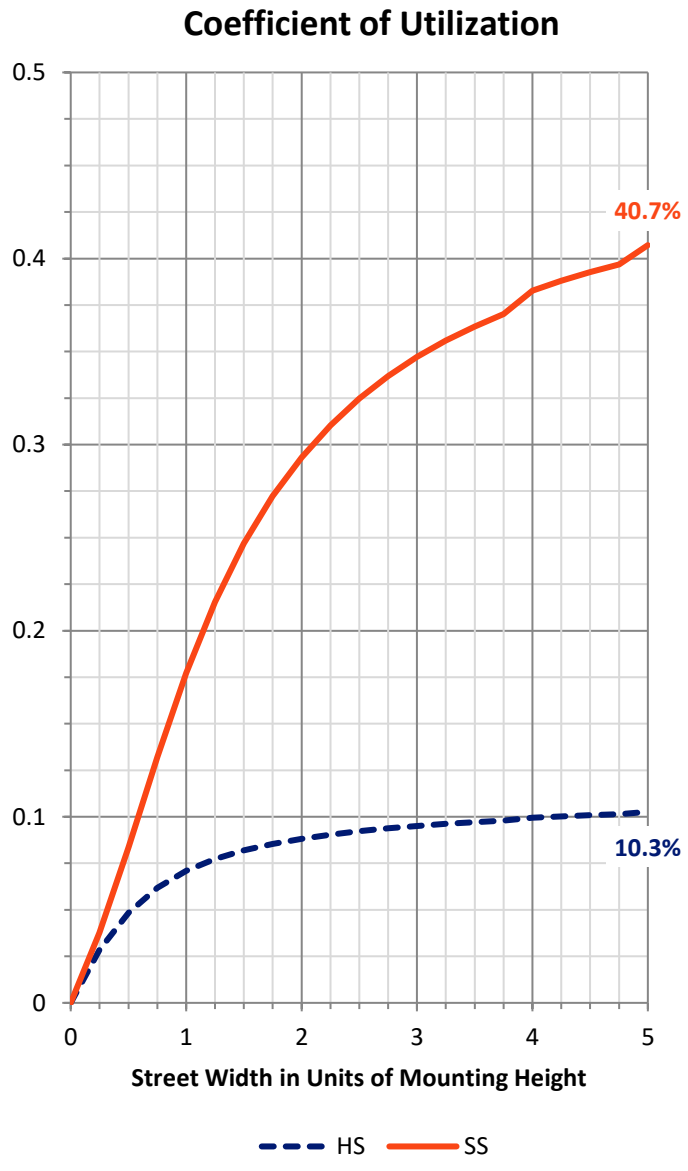
REPORT NUMBER: P1224038
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	477.4	469.1	946.5
	% Fixture	11.1	10.9	22.0
Street Side	Lumens	2012.8	1350.7	3363.5
	% Fixture	46.7	31.3	78.0
Total	Lumens	2490.1	1819.8	4310.0
	% Fixture	57.8	42.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	30.6	0.7
20°-30°	92.3	2.1
30°-40°	192.2	4.5
40°-50°	304.6	7.1
50°-60°	400.1	9.3
60°-70°	466.2	10.8
70°-80°	499.7	11.6
80°-90°	500.1	11.6
90°-100°	468.9	10.9
100°-110°	412.5	9.6
110°-120°	340.7	7.9
120°-130°	256.4	5.9
130°-140°	169.2	3.9
140°-150°	97.0	2.3
150°-160°	48.1	1.1
160°-170°	21.0	0.5
170°-180°	5.9	0.1
0°-90°	2490.1	57.8
0°-180°	4310.0	100.0



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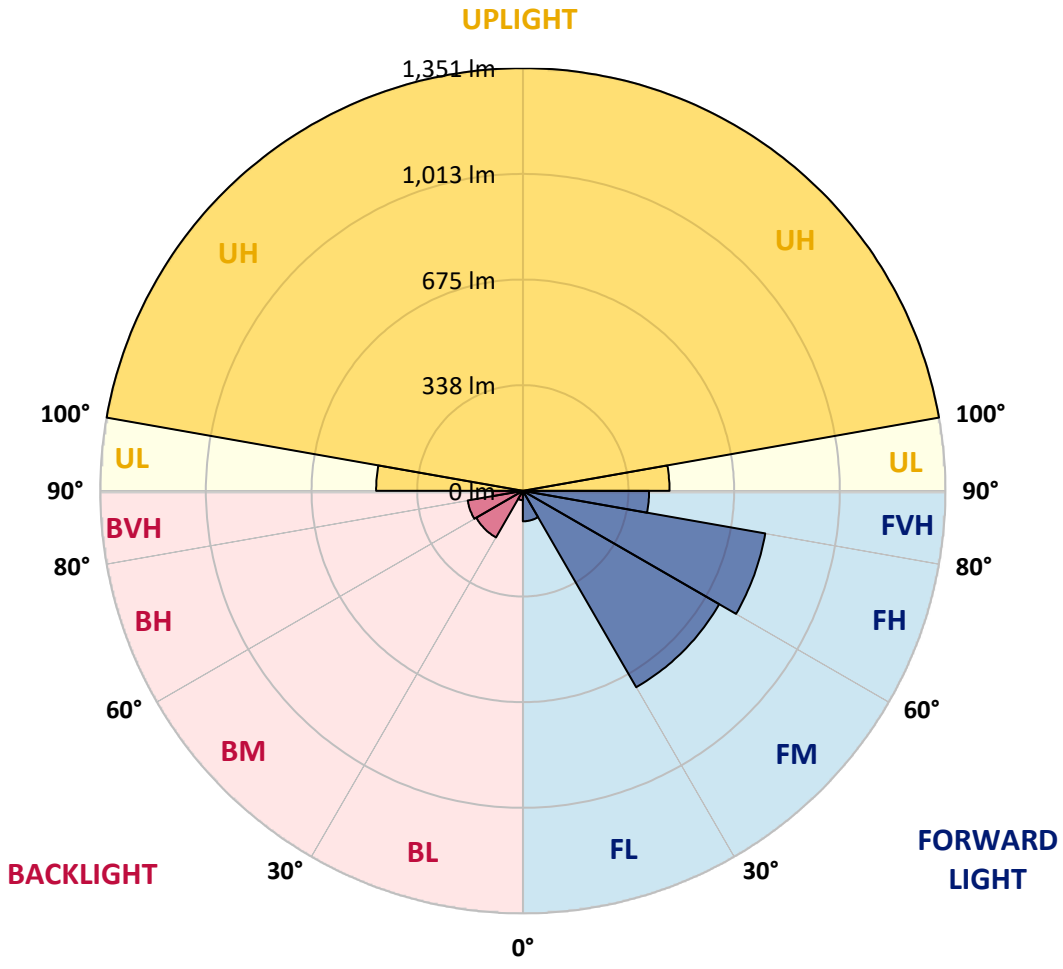
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	97.4	2.3			
FM	(30°-60°)	724.9	16.8			
FH	(60°-80°)	786.9	18.3			G1/1800
FVH	(80°-90°)	403.5	9.4			G3/500
BL	(0°-30°)	29.8	0.7	B0/110		
BM	(30°-60°)	172.0	4.0	B0/220		
BH	(60°-80°)	179.0	4.2	B1/500		G1/500
BVH	(80°-90°)	96.5	2.2			G1/100
UL	(90°-100°)	468.9	10.9		U3/500	
UH	(100°-180°)	1350.9	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°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
2.5°	38.9	39.2	38.9	39.5	38.0	38.0	36.8	35.6	34.2	32.4	31.2
5°	57.7	57.4	57.4	57.7	56.9	54.2	51.3	47.1	43.6	39.8	37.7
7.5°	83.1	81.9	80.7	80.4	77.5	73.6	69.5	64.8	59.8	54.5	50.7
10°	109.6	110.5	109.3	106.0	102.5	98.1	92.8	86.3	79.8	72.5	68.0
12.5°	143.8	141.4	138.4	135.2	131.7	127.5	119.0	111.6	102.5	93.4	87.5
15°	177.0	175.0	175.0	170.9	165.3	159.1	151.1	142.0	129.3	114.9	109.6
17.5°	211.2	211.5	208.6	203.8	198.8	190.9	182.3	169.4	156.4	141.4	132.3
20°	251.3	250.1	248.0	244.5	235.7	228.6	218.0	203.5	185.9	167.6	156.4
22.5°	292.8	293.4	293.4	287.8	279.5	269.8	257.7	241.3	220.3	196.8	183.2
25°	344.6	344.4	338.8	332.3	325.8	315.8	300.5	280.4	257.5	229.2	213.3
27.5°	391.8	391.5	390.3	384.4	374.7	361.7	343.8	322.0	295.7	261.9	243.0
30°	444.2	445.4	442.2	437.1	424.5	411.2	390.3	364.7	333.7	297.2	276.0
32.5°	501.1	498.7	496.1	489.6	475.7	457.2	433.6	407.1	373.2	331.4	308.1
35°	550.3	554.7	550.6	540.5	523.5	503.7	477.8	448.0	411.2	366.4	339.9
37.5°	605.6	604.8	598.6	588.8	572.4	547.3	519.9	485.5	444.2	397.7	368.2
40°	657.2	653.7	650.1	635.7	614.8	589.7	555.9	520.8	478.4	425.9	396.2
42.5°	702.8	702.6	693.1	678.7	652.5	624.8	589.7	550.6	506.4	452.2	418.6
45°	745.0	744.1	735.0	713.4	688.7	655.4	618.9	578.2	531.7	474.6	442.4
47.5°	784.7	782.4	769.7	747.9	716.7	681.6	643.9	601.2	553.2	494.6	461.0
50°	821.0	818.9	804.2	776.5	743.2	705.8	664.6	620.4	573.5	514.6	478.4
52.5°	851.9	848.4	831.3	801.5	763.5	724.1	681.0	636.9	589.4	528.8	493.7
55°	876.6	872.8	854.5	821.3	781.5	738.8	695.2	651.3	601.8	541.4	505.5
57.5°	897.3	894.3	874.3	837.8	795.3	751.4	707.3	662.5	613.3	553.2	515.8
60°	915.2	911.7	889.0	851.3	806.5	761.2	716.1	671.3	623.0	562.3	525.2
62.5°	927.9	925.2	901.4	861.0	814.5	768.5	722.0	678.7	630.4	570.6	532.3
65°	937.0	933.8	909.6	866.9	819.5	772.1	726.4	681.9	635.1	575.6	537.6
67.5°	942.3	940.0	914.6	871.0	821.6	773.8	728.5	685.2	638.9	579.7	541.7
70°	945.9	942.3	916.7	871.9	821.0	773.5	728.5	685.5	641.0	582.7	544.1
72.5°	946.7	942.9	916.4	870.5	819.2	770.6	727.0	685.8	641.6	584.1	546.4
73°	947.0	942.9	916.1	869.9	818.3	770.3	726.7	685.2	641.0	583.8	546.4
75°	943.8	941.2	913.8	866.3	815.4	767.4	724.6	683.7	641.0	584.1	546.1
77.5°	940.6	936.4	907.9	861.3	808.6	762.1	720.2	680.8	638.9	583.5	545.8
80°	932.9	928.8	900.2	851.9	800.1	754.4	714.0	676.0	635.1	580.3	543.5
82.5°	924.1	919.4	889.6	841.0	789.7	744.7	706.1	669.9	630.1	576.5	539.9
85°	911.1	907.6	877.2	827.7	778.0	734.7	697.0	662.5	623.6	570.6	534.6
87.5°	896.1	893.1	861.6	812.7	762.9	721.7	686.3	652.8	616.2	564.1	528.8
90°	880.5	876.9	845.4	795.6	748.2	707.6	674.0	642.5	607.1	556.1	521.1
92.5°	862.5	858.4	826.6	778.3	732.0	693.1	661.9	631.0	596.8	547.0	513.1
95°	840.7	836.9	805.4	757.0	711.7	676.3	646.0	617.4	584.7	536.1	503.4
97.5°	817.4	813.9	782.1	735.8	691.9	657.2	628.9	603.0	571.8	525.5	492.5
100°	792.4	787.7	756.2	711.7	668.4	636.9	611.5	588.3	557.6	512.3	480.7
102.5°	765.9	761.5	731.4	687.8	647.2	616.5	593.6	570.9	542.9	500.2	469.3
105°	735.8	733.5	703.1	661.0	623.0	594.7	573.2	553.5	527.0	485.5	457.2
107.5°	706.1	701.4	673.1	632.7	597.1	571.5	552.9	534.6	510.5	470.7	443.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*674.6*	669.9	644.5	605.9	572.9	548.5	531.4	515.2	493.4	456.3	431.0
112.5°	*642.8*	637.5	612.4	577.1	545.0	524.9	509.3	495.8	476.0	441.9	416.8
115°	*608.3*	606.2	581.8	547.9	519.6	500.8	487.2	474.8	456.3	426.2	403.3
117.5°	*574.4*	570.6	549.4	518.1	491.9	474.3	463.9	453.0	436.3	408.0	387.9
120°	*537.9*	537.0	516.7	487.5	463.1	449.2	439.2	430.1	415.3	389.7	370.9
122.5°	*503.4*	501.7	482.2	456.0	435.7	422.7	414.8	406.8	394.1	370.3	352.6
125°	*466.9*	464.8	449.5	428.0	408.6	396.2	388.5	382.4	370.9	349.4	332.9
127.5°	*433.0*	431.0	417.1	396.5	381.2	370.0	362.9	357.3	345.8	327.3	312.8
130°	*399.4*	395.9	383.8	367.3	352.0	344.4	337.3	333.2	321.4	304.0	291.3
132.5°	*363.5*	361.7	353.2	337.9	325.5	317.5	311.4	306.1	296.9	281.0	269.5
135°	*331.7*	329.9	322.0	309.0	300.5	293.1	287.5	281.9	272.5	257.2	247.4
137.5°	*301.3*	299.9	292.8	284.0	273.1	268.6	264.8	258.0	249.8	236.0	227.1
140°	*269.5*	270.1	264.5	256.6	249.8	244.5	240.7	235.1	226.8	215.0	206.2
142.5°	*243.3*	244.2	237.4	231.8	225.6	221.5	217.7	213.0	205.0	194.4	187.6
145°	*218.6*	216.5	213.9	208.6	202.7	200.0	196.2	192.1	185.9	175.3	169.7
147.5°	*193.5*	192.9	190.3	186.8	182.0	177.9	175.0	172.6	166.4	157.6	152.6
150°	*170.9*	170.3	168.8	166.1	162.0	159.4	157.0	153.8	147.9	141.1	136.7
152.5°	*150.8*	150.8	149.9	146.4	144.6	141.7	138.7	137.0	131.1	125.5	121.7
155°	*133.4*	133.4	132.3	130.5	127.3	125.5	123.7	121.1	116.9	112.5	109.0
157.5°	*118.4*	118.7	117.2	115.8	113.4	111.9	110.2	107.5	104.9	100.7	98.1
160°	*105.2*	105.5	104.9	103.7	101.3	99.9	98.4	96.3	94.0	90.7	88.4
162.5°	*94.6*	94.3	93.7	92.5	91.0	90.1	88.4	86.9	84.8	82.5	80.4
165°	*86.3*	85.4	85.1	84.2	82.8	81.9	80.4	79.2	77.8	75.4	74.5
167.5°	*78.9*	78.9	78.4	77.8	76.6	75.4	74.2	73.3	72.2	70.7	69.5
170°	*73.1*	73.1	72.5	71.9	70.7	70.1	69.2	68.3	67.5	66.3	65.7
172.5°	*68.3*	68.3	68.0	67.2	66.6	65.7	65.4	64.5	63.6	63.0	62.4
175°	*64.8*	64.8	64.2	63.6	63.0	62.4	61.9	61.6	61.3	60.7	60.4
177.5°	*62.2*	61.9	61.6	61.0	60.4	60.1	59.8	59.5	59.5	59.2	58.9
180°	*58.6*	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
2.5°	30.0	27.4	24.4	21.8	20.3	18.3	17.1	16.5	17.1	16.2
5°	35.6	30.9	26.2	22.7	18.9	15.9	13.3	10.6	8.8	8.5
7.5°	47.4	42.1	35.6	29.8	24.4	19.7	15.6	12.4	10.0	9.7
10°	62.7	54.8	46.5	38.3	30.6	24.4	19.4	15.9	14.7	14.4
12.5°	81.9	70.4	58.9	48.0	38.6	30.3	24.7	20.9	19.1	18.9
15°	101.9	87.5	72.8	58.6	46.0	35.9	28.9	24.7	22.7	22.4
17.5°	123.4	104.6	84.5	68.0	53.0	40.9	32.1	26.5	24.2	23.6
20°	145.2	121.7	98.7	77.2	58.9	44.2	33.9	27.4	24.4	23.9
22.5°	169.7	141.4	112.8	86.0	64.2	47.4	35.3	28.0	24.7	24.2
25°	197.4	161.4	127.5	96.3	70.1	50.4	36.8	28.9	25.0	24.4
27.5°	225.6	183.8	142.6	105.5	75.1	52.4	38.0	29.2	25.3	24.7
30°	254.2	206.2	157.9	114.3	79.5	54.8	38.6	29.5	25.3	25.0
32.5°	284.0	227.1	172.6	122.5	83.4	56.3	39.2	29.8	25.6	25.0
35°	310.8	249.2	186.5	130.5	86.9	57.4	39.5	29.8	25.6	25.0
37.5°	336.4	268.1	199.1	137.0	89.5	58.3	39.8	29.8	25.6	25.0
40°	363.2	288.1	210.6	142.9	91.6	58.9	39.8	29.8	25.6	25.3
42.5°	385.0	304.9	220.3	147.0	93.1	58.9	39.8	29.8	25.9	25.3
45°	404.7	318.7	229.8	150.8	94.0	58.9	39.5	30.0	25.9	25.6
47.5°	421.8	332.6	236.8	153.5	94.3	58.9	39.5	30.0	26.2	25.9
50°	437.7	343.8	243.0	155.5	94.6	58.6	39.5	30.3	26.5	25.9
52.5°	451.3	352.9	248.0	156.7	94.0	58.0	39.5	30.6	27.1	26.5
55°	462.8	361.4	251.6	157.3	93.4	57.7	39.5	30.9	27.4	27.1
57.5°	472.2	368.2	254.8	157.6	92.8	57.4	39.8	31.5	28.3	28.0
60°	480.7	373.8	257.2	157.6	92.2	57.1	40.1	32.1	28.9	28.6
62.5°	487.5	378.2	258.9	157.3	91.9	57.1	40.7	33.0	29.8	29.5
65°	492.2	381.5	259.8	156.7	91.3	57.4	41.2	33.9	30.9	30.6
67.5°	496.6	384.4	260.4	156.4	91.0	57.7	42.1	35.1	32.1	31.8
70°	499.3	386.2	260.7	156.1	90.7	58.3	43.0	36.2	33.6	33.3
72.5°	500.5	387.4	261.0	155.5	91.0	58.9	44.2	37.4	35.1	34.8
73°	*500.8*	*387.4*	*260.7*	*155.5*	*91.0*	*59.2*	*44.5*	*38.0*	*35.3*	*35.1*
75°	501.4	387.4	260.4	155.2	91.3	59.8	45.4	39.2	36.5	36.5
77.5°	500.5	386.8	259.8	154.9	91.6	61.0	46.8	40.7	38.3	38.0
80°	498.7	385.3	258.9	154.9	92.2	62.2	48.6	42.4	40.1	39.8
82.5°	494.9	382.6	257.7	154.6	93.1	63.6	50.4	44.2	42.1	41.8
85°	491.0	379.4	256.0	154.6	94.3	65.4	52.1	46.2	44.2	43.9
87.5°	485.2	375.6	254.2	154.4	95.4	66.9	53.9	48.3	46.0	46.0
90°	478.4	371.5	252.4	154.6	96.6	68.9	56.3	50.7	48.3	48.0
92.5°	471.6	366.7	250.4	155.2	98.7	71.0	58.6	53.0	50.7	50.1
95°	462.5	360.3	248.0	155.5	100.4	73.3	61.0	55.4	53.0	53.0
97.5°	453.0	354.4	245.4	156.4	102.8	76.3	64.2	58.3	56.0	56.0
100°	443.0	348.2	243.6	157.3	105.2	79.5	67.2	61.3	58.9	58.9
102.5°	432.4	341.4	241.8	159.1	108.7	82.8	70.7	64.8	62.2	62.2
105°	421.5	334.9	240.1	161.1	112.2	86.9	74.5	68.6	66.0	66.0
107.5°	410.9	328.7	238.6	163.8	116.1	91.0	78.4	72.5	69.8	69.2

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

Scaled Data Report

REPORT NUMBER: P1224038
CATALOG NUMBER: FFX-CLB-30-730-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	399.7	322.3	237.4	166.4	120.5	95.7	83.1	76.3	73.3	73.3
112.5°	387.7	315.5	236.5	169.1	125.2	100.4	87.2	80.4	77.5	76.9
115°	375.0	308.7	234.8	172.0	129.3	105.2	91.6	84.0	80.7	80.4
117.5°	362.6	300.8	232.7	174.1	133.1	109.0	95.1	87.5	84.0	83.7
120°	348.2	291.9	229.2	174.7	136.1	111.9	98.1	89.8	86.3	85.7
122.5°	332.3	280.4	224.2	174.1	137.6	114.0	99.9	91.6	87.5	87.2
125°	314.3	267.8	217.7	172.0	137.9	114.9	100.4	91.9	88.1	87.5
127.5°	295.5	255.1	209.1	167.9	136.1	114.3	99.9	91.3	87.2	86.9
130°	276.0	240.1	199.1	162.6	133.1	112.2	98.4	89.8	85.7	85.4
132.5°	256.6	224.2	188.2	155.5	129.0	109.0	95.7	87.5	83.7	83.1
135°	235.7	208.6	177.0	148.2	123.4	105.5	92.5	84.5	80.7	80.4
137.5°	216.5	192.4	165.5	139.9	118.1	100.7	89.0	81.6	78.4	77.8
140°	197.7	176.7	153.2	131.1	111.3	96.0	84.8	78.4	75.1	74.8
142.5°	180.3	162.3	142.3	122.5	105.2	91.3	81.3	75.1	72.5	71.9
145°	162.3	147.3	130.8	113.7	98.4	86.3	77.5	71.9	69.5	68.9
147.5°	146.7	133.4	119.3	104.9	92.2	81.3	73.6	68.9	66.9	66.6
150°	132.0	120.8	108.4	96.6	85.4	76.6	70.1	66.0	64.2	63.9
152.5°	118.7	109.0	99.0	89.0	79.5	72.5	66.9	63.3	61.9	61.9
155°	106.3	98.4	90.4	82.2	74.8	68.9	64.5	61.6	60.4	60.1
157.5°	95.7	89.5	83.1	76.3	70.7	65.7	62.2	60.1	58.9	58.9
160°	86.6	81.9	76.6	71.6	67.2	63.0	60.4	58.6	57.7	57.7
162.5°	79.2	75.4	71.3	67.5	63.6	61.0	58.9	57.7	57.1	57.1
165°	73.1	70.4	67.5	64.2	61.6	59.5	58.0	57.1	56.9	56.9
167.5°	68.6	66.3	63.9	61.9	60.1	58.3	57.4	56.9	56.9	56.6
170°	64.8	63.3	61.3	59.8	58.3	57.4	56.9	56.6	56.6	56.3
172.5°	61.9	60.7	59.5	58.3	57.4	56.9	56.6	56.6	56.6	56.6
175°	60.1	59.2	58.3	57.7	57.1	56.6	56.6	56.9	56.9	56.9
177.5°	58.6	58.3	57.7	57.4	57.1	57.1	57.1	57.4	57.7	57.7
180°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6

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: SP1-2501-332-4

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

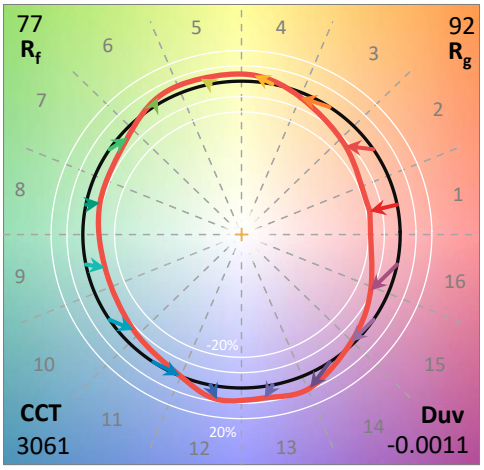
Test Information

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

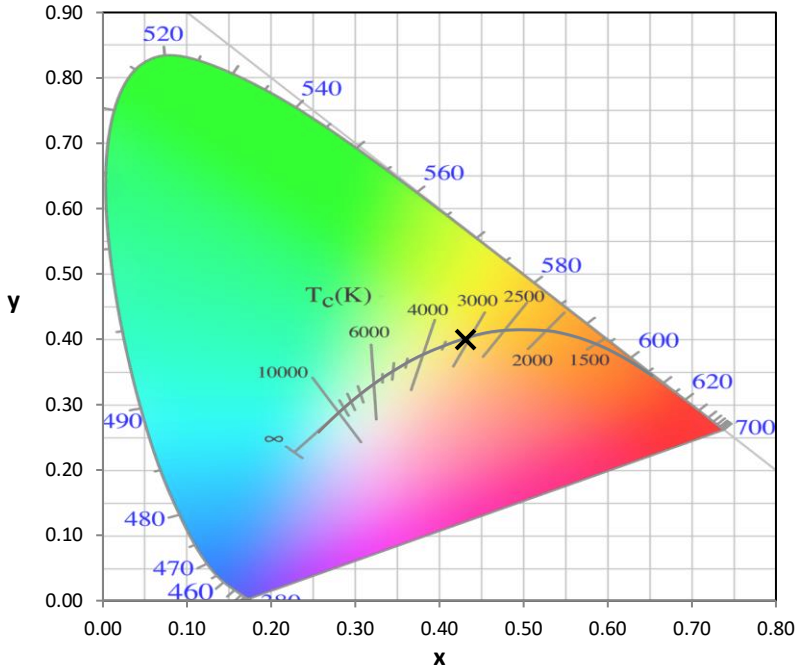
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

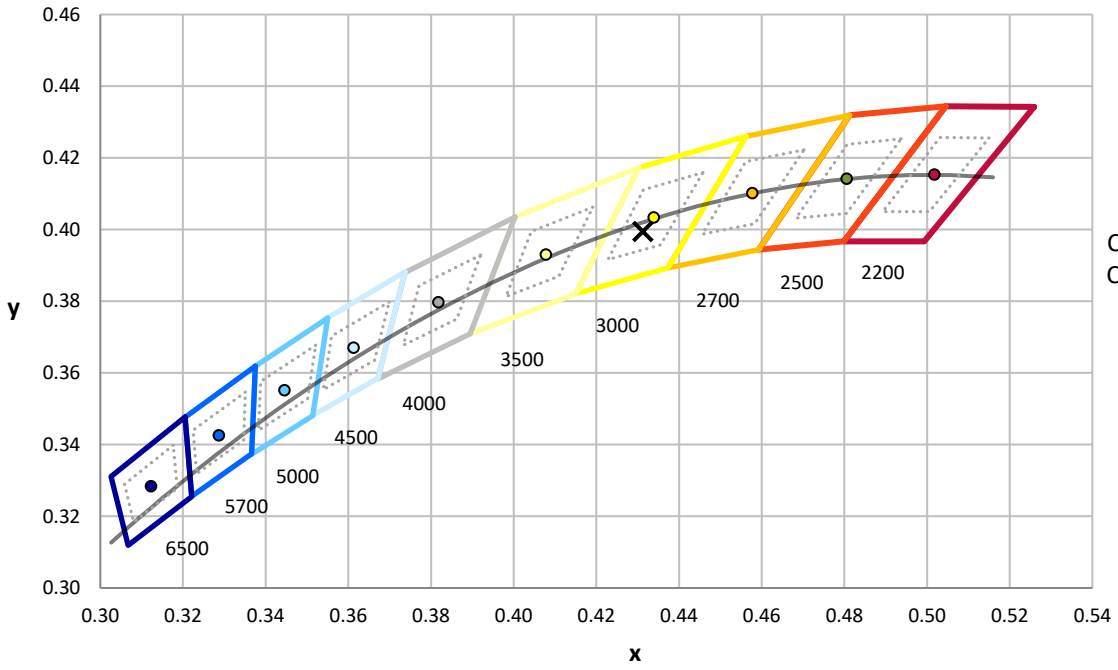
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

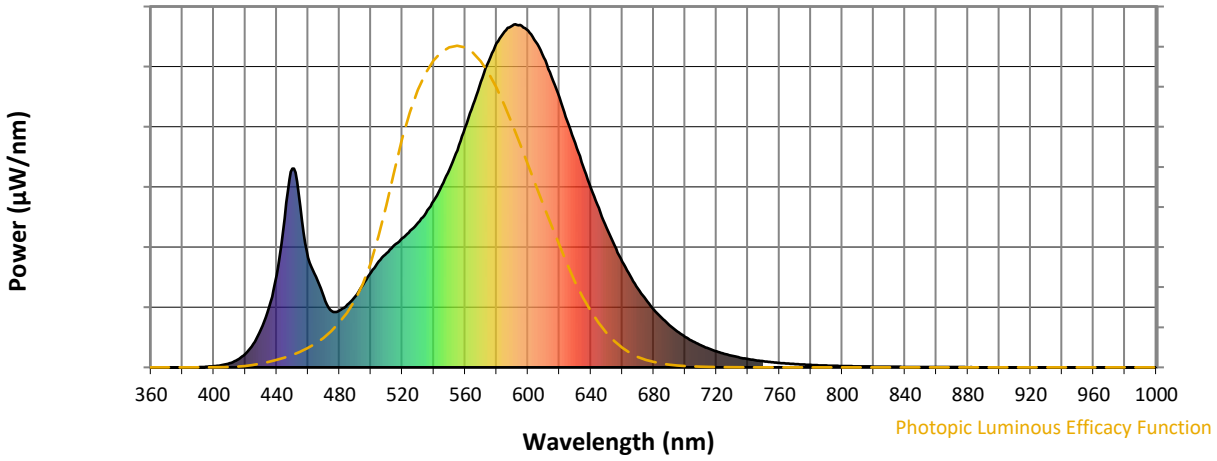


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

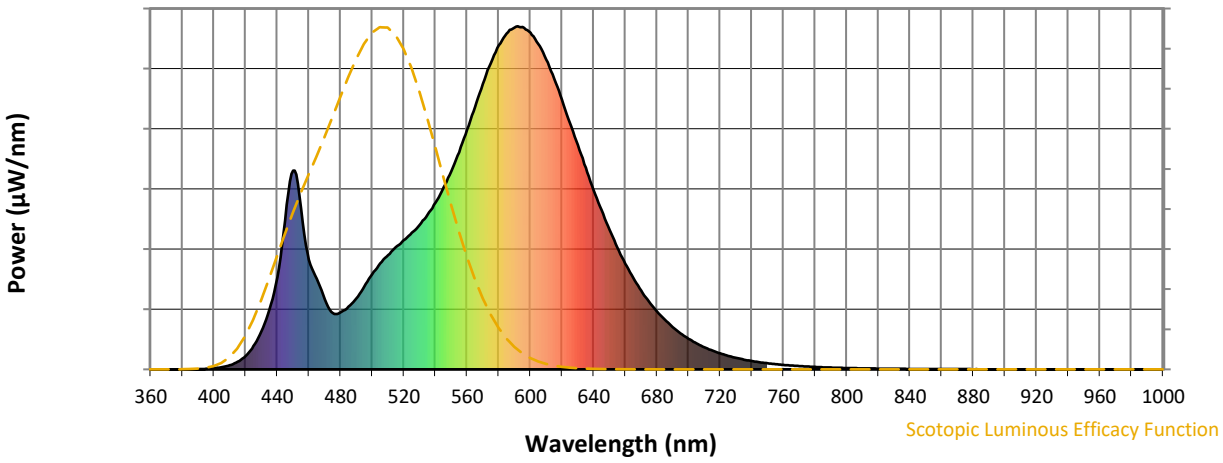


Photopic Lumens: NR

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

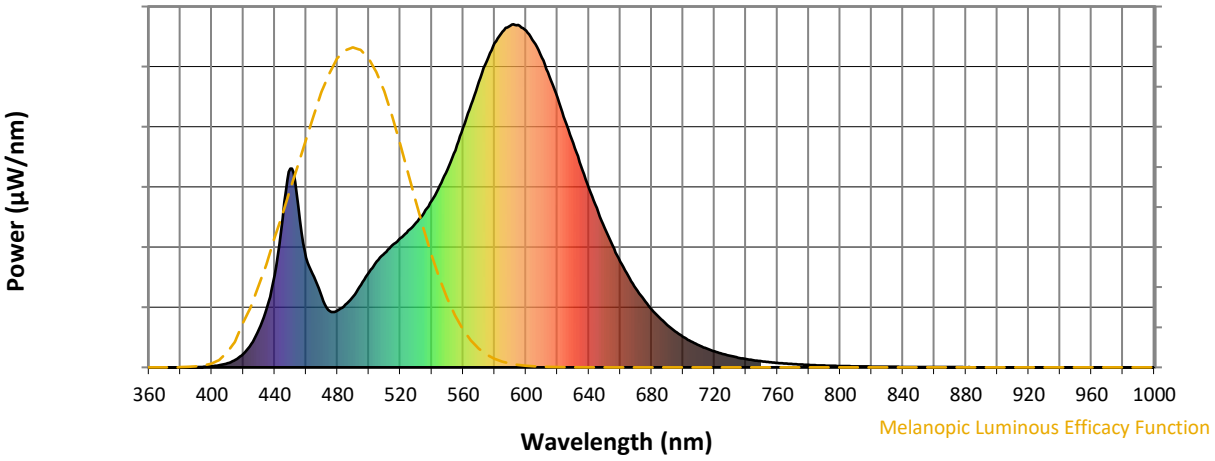


Scotopic Lumens: NR **S/P: 1.29**

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			

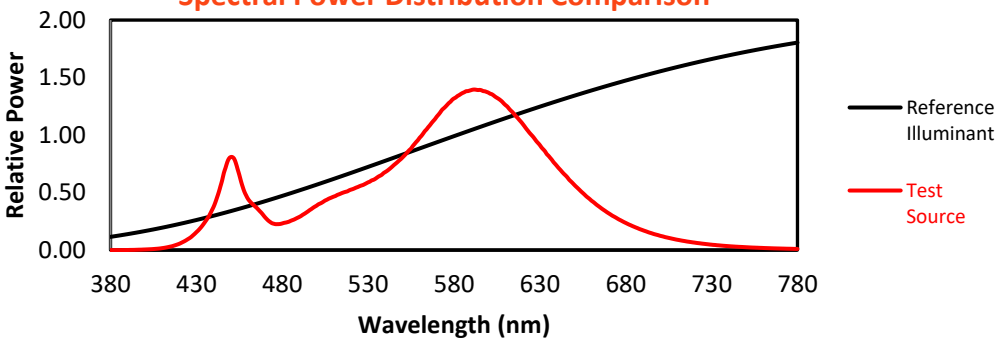
REPORT NUMBER: SP1-2501-332-4

TM-30-18

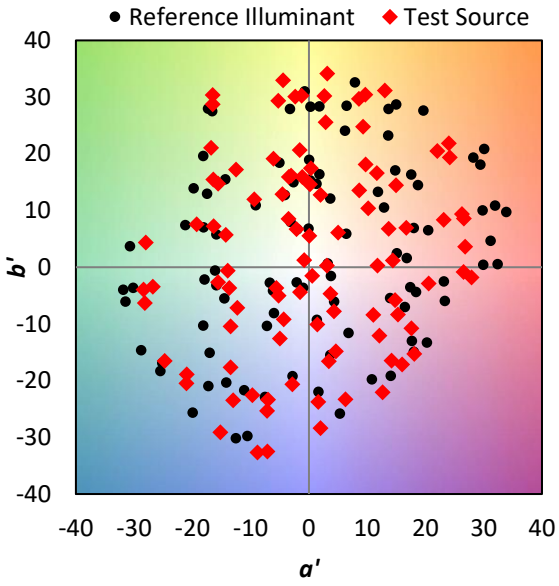
Summary

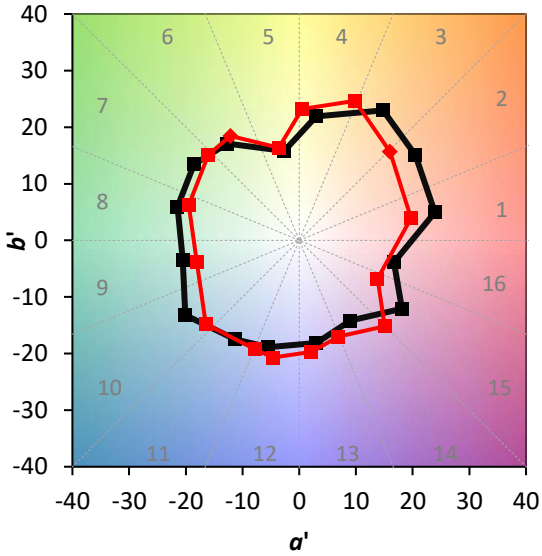
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

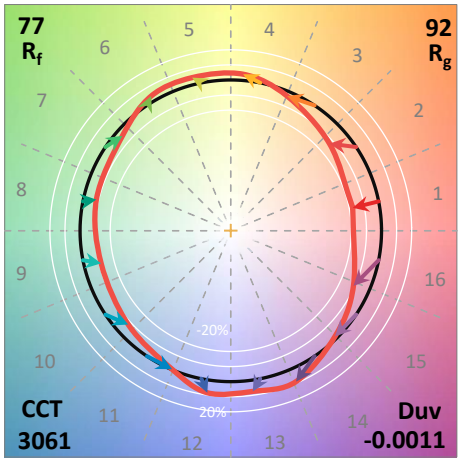
Spectral Power Distribution Comparison

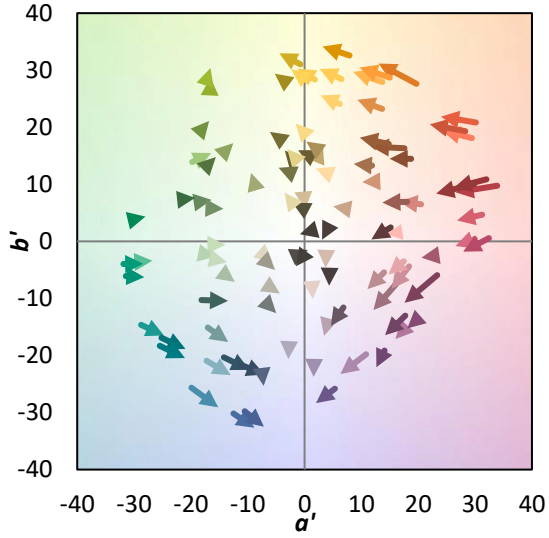


Color Vector Graphics







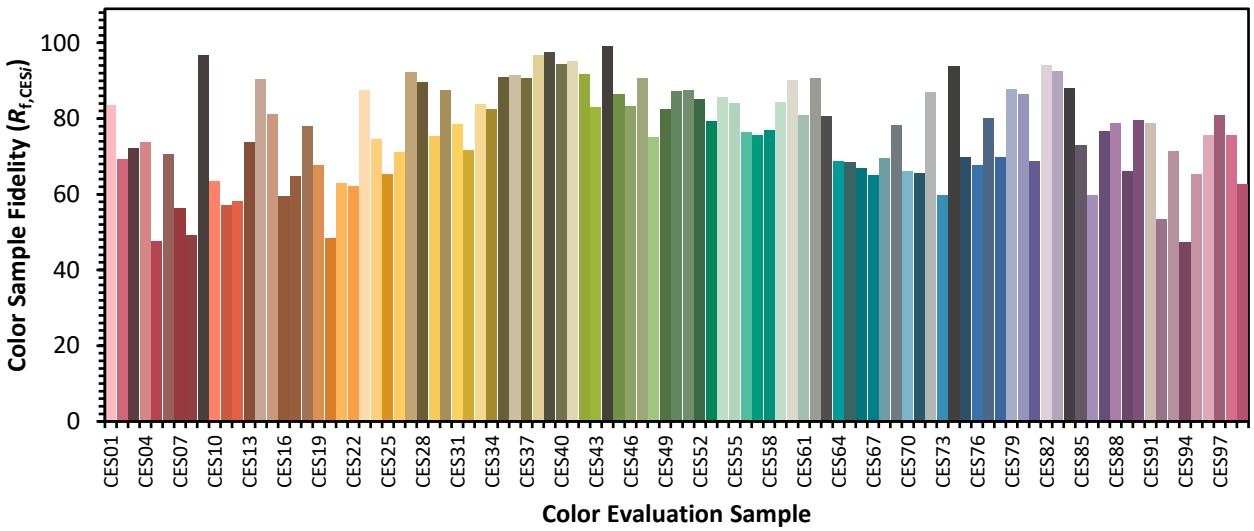


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

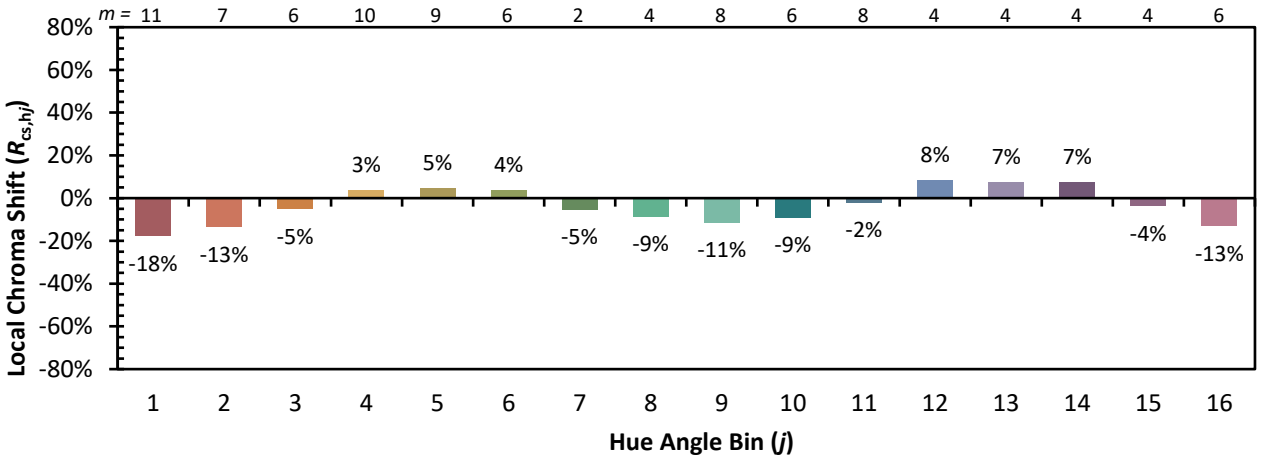
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

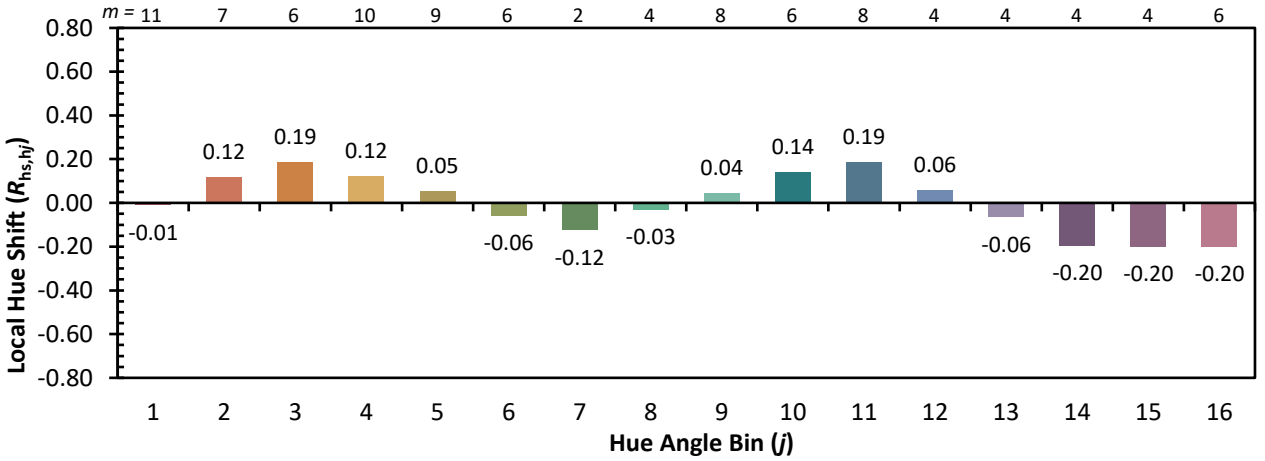


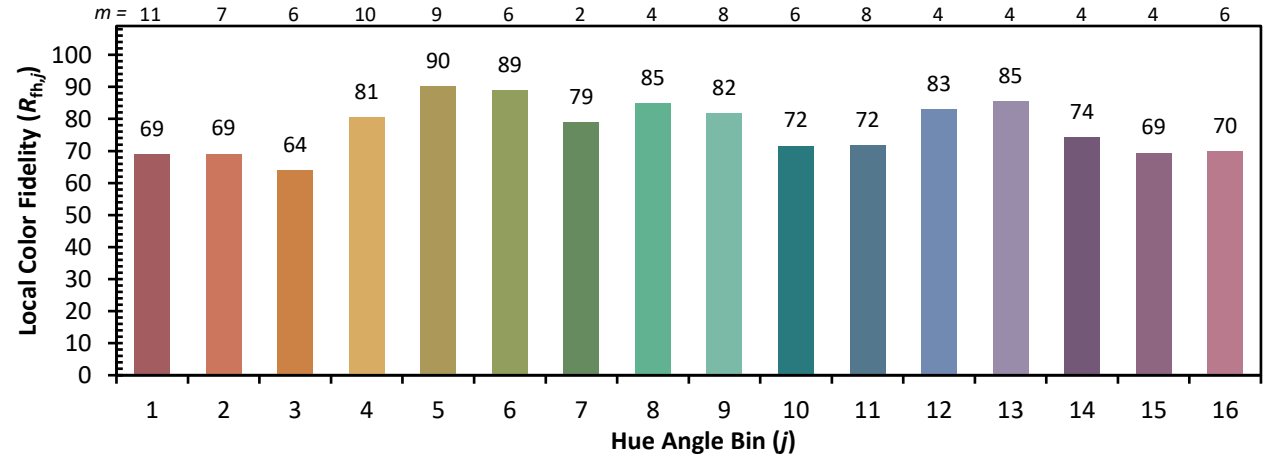
REPORT NUMBER: SP1-2501-332-4

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Color Rendition by Hue-Angle Bin



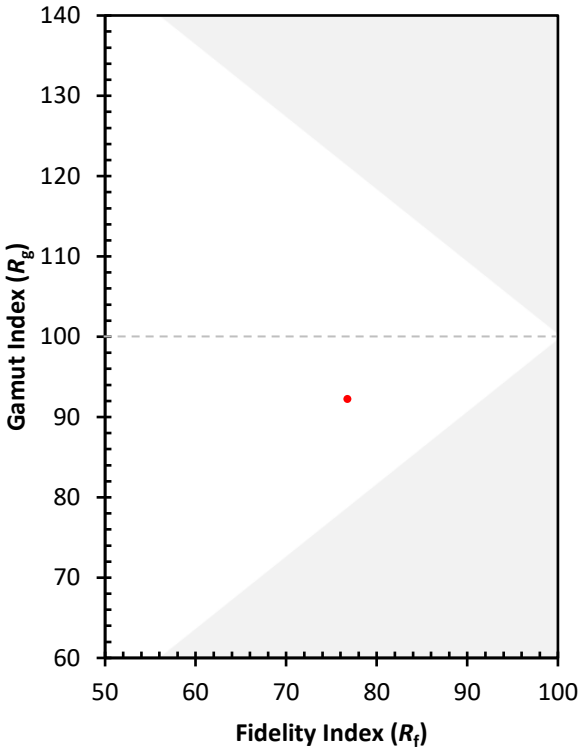


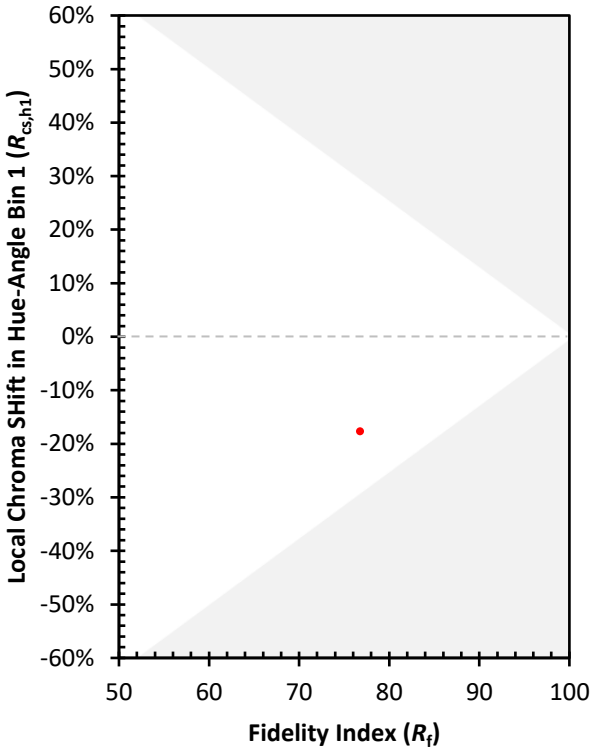


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Measure Comparisons





(END OF REPORT)