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: P1046565

Luminaire Tested: **FFX-CLB-50-730-U-FR-T3-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046565
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-730-U-FR-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7052.7 lumens
Efficiency:	N/A
Efficacy:	139.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U5 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

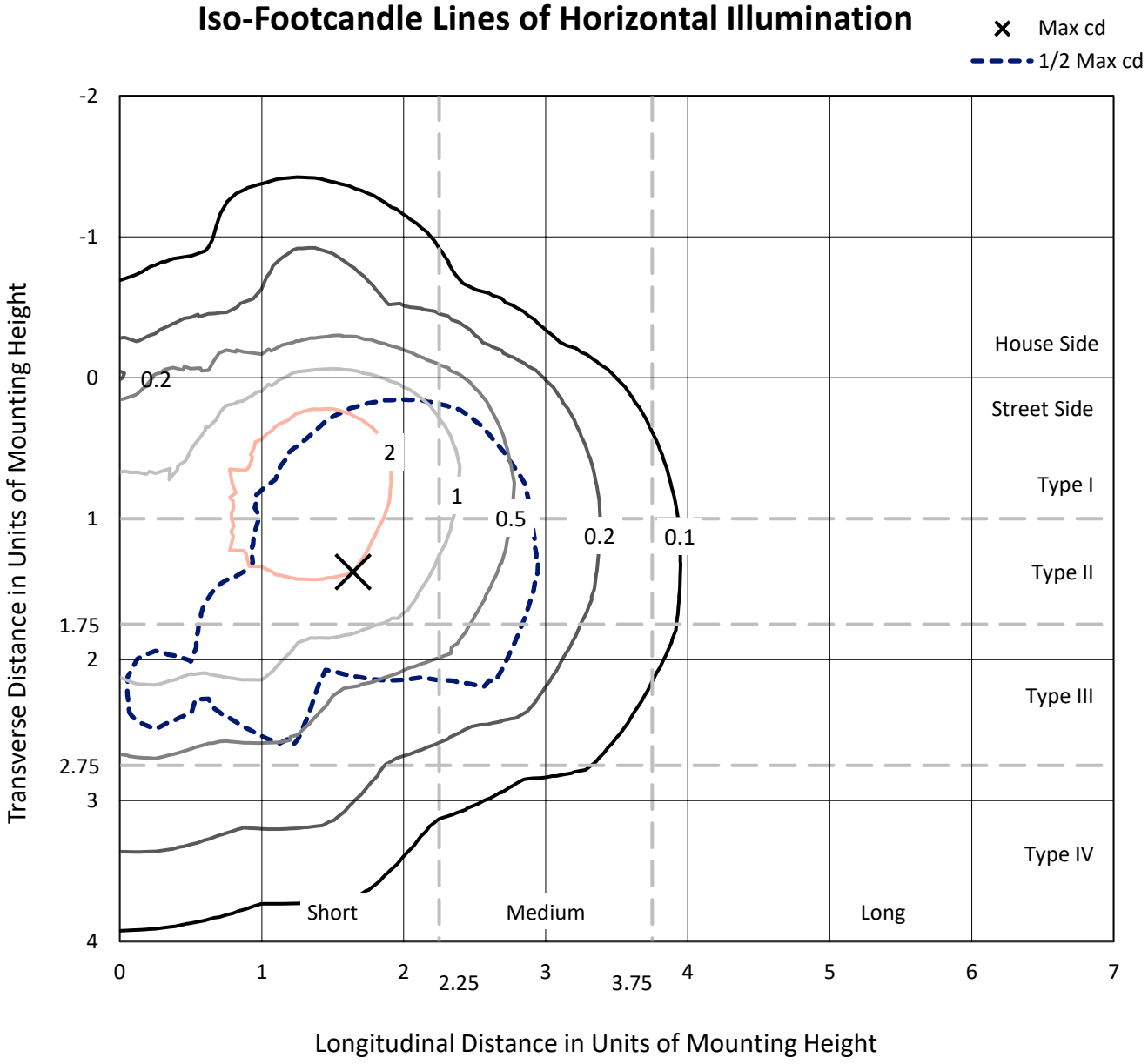


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Iso-Footcandle Lines of Horizontal Illumination



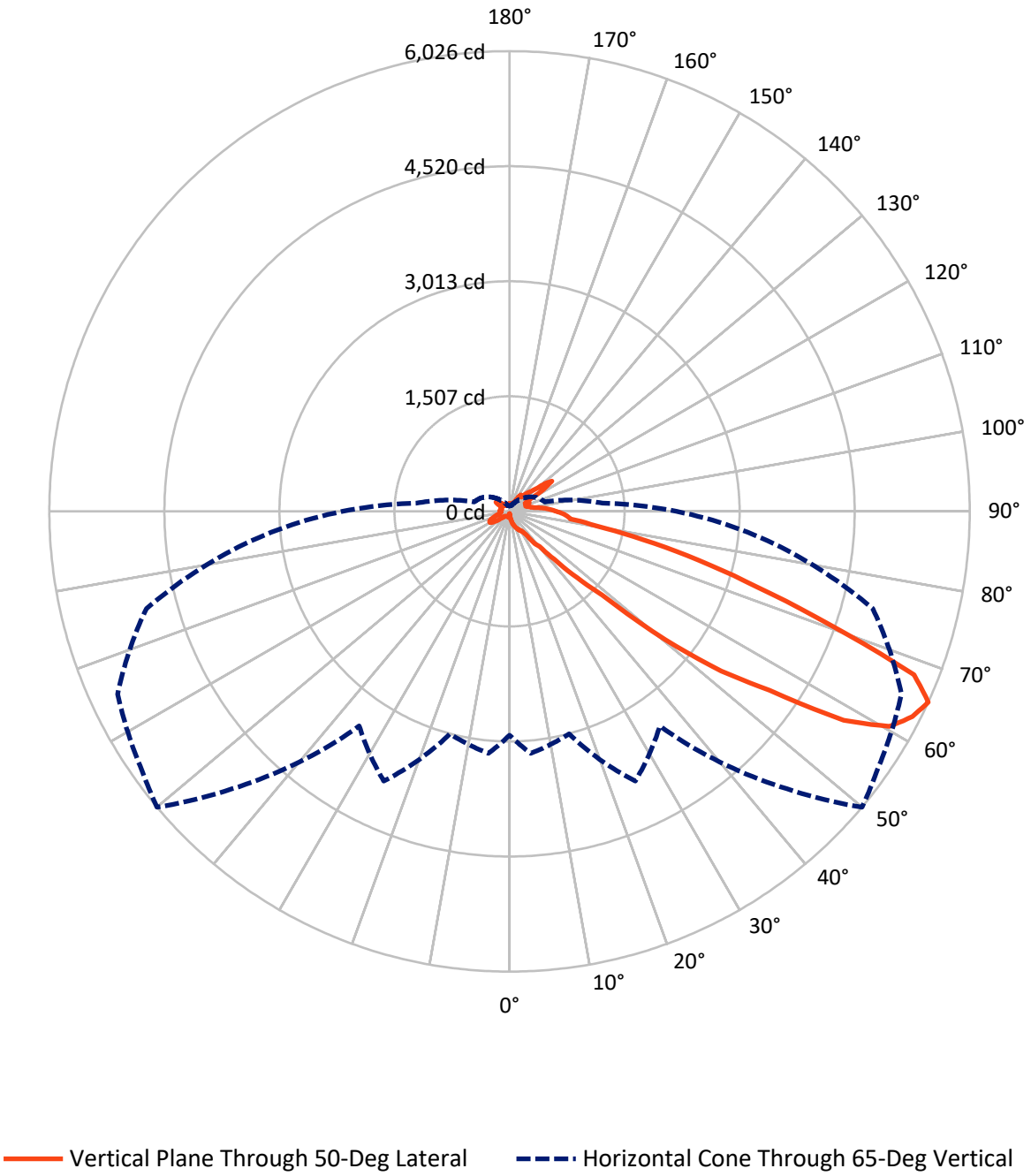
Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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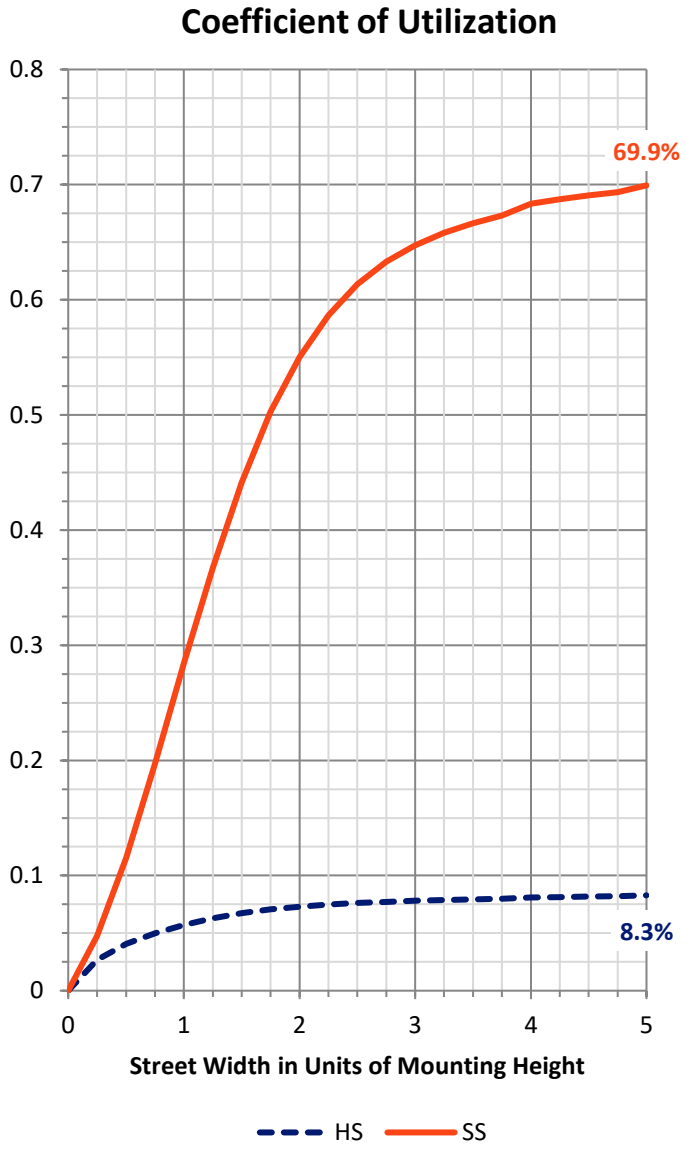
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	618.6	407.2	1025.9
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	5101.7	925.1	6026.9
	% Fixture	72.3	13.1	85.5
Total	Lumens	5720.4	1332.4	7052.7
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.1
10°-20°	36.8	0.5
20°-30°	78.6	1.1
30°-40°	156.9	2.2
40°-50°	411.1	5.8
50°-60°	1362.1	19.3
60°-70°	2148.1	30.5
70°-80°	1121.7	15.9
80°-90°	398.3	5.6
90°-100°	257.1	3.6
100°-110°	173.4	2.5
110°-120°	197.9	2.8
120°-130°	327.9	4.6
130°-140°	187.3	2.7
140°-150°	102.6	1.5
150°-160°	50.2	0.7
160°-170°	26.6	0.4
170°-180°	9.6	0.1
0°-90°	5720.4	81.1
0°-180°	7052.7	100.0



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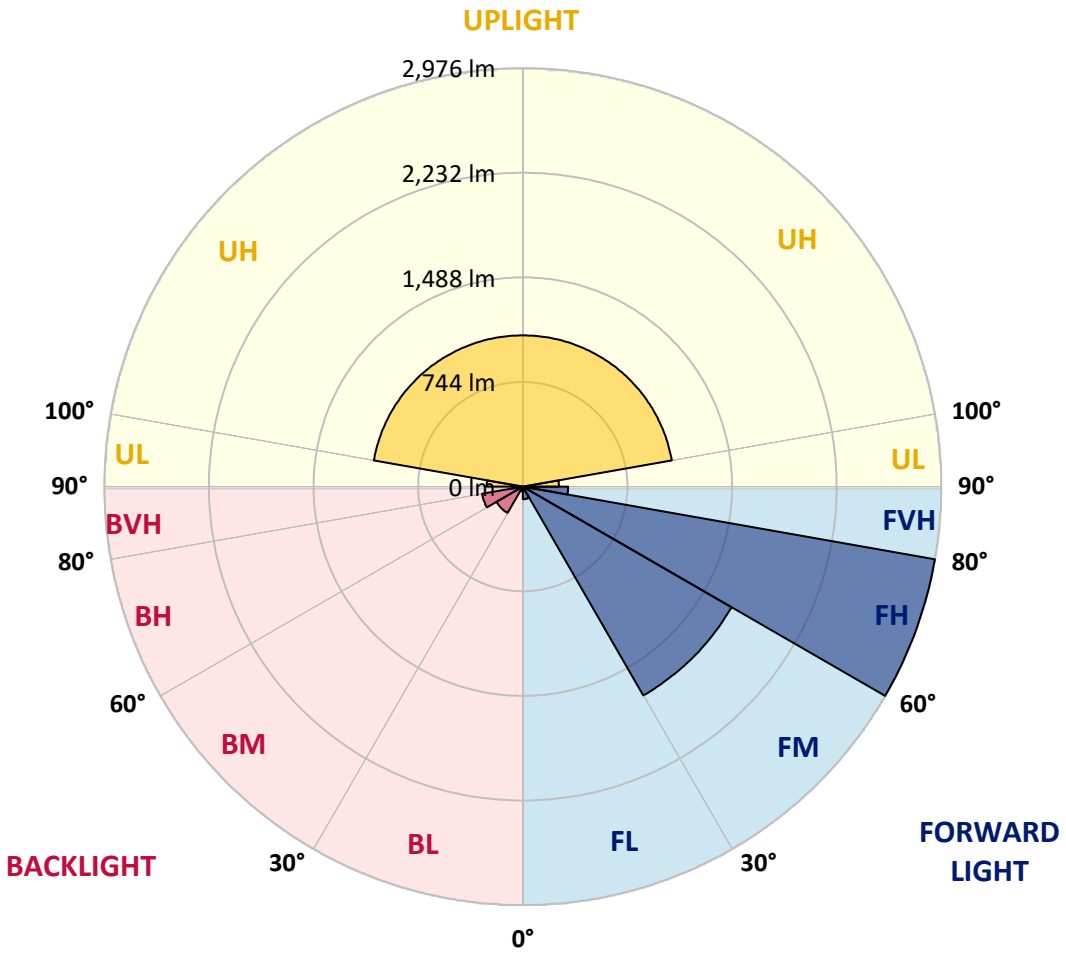
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	89.7	1.3			
FM	(30°-60°)	1713.9	24.3			
FH	(60°-80°)	2975.6	42.2			G2/5000
FVH	(80°-90°)	322.5	4.6			G3/500
BL	(0°-30°)	32.4	0.5	B0/110		
BM	(30°-60°)	216.2	3.1	B0/220		
BH	(60°-80°)	294.2	4.2	B1/500		G1/500
BVH	(80°-90°)	75.8	1.1			G1/100
UL	(90°-100°)	257.1	3.6		U3/500	
UH	(100°-180°)	1075.3	15.2		U5	

BUG Rating: B1-U5-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	39.4	39.4	39.4	39.4	39.4	39.4	*39.4*	39.4	39.4	39.4	39.4
2.5°	47.9	47.4	48.3	49.8	49.3	47.9	*46.9*	46.4	44.9	44.4	42.9
5°	70.8	70.3	69.3	70.3	70.8	68.8	*67.8*	65.3	62.8	58.3	55.8
7.5°	99.2	99.7	100.7	98.2	97.2	92.7	*91.7*	89.2	85.2	79.8	78.3
10°	134.6	135.1	137.6	133.6	127.1	121.6	*120.6*	121.6	126.1	112.1	103.7
12.5°	169.5	168.0	175.5	173.5	165.0	157.0	*153.0*	153.5	151.5	141.1	127.1
15°	201.9	201.9	207.4	209.3	200.4	181.9	*175.9*	174.5	173.5	162.5	143.1
17.5°	222.3	223.3	223.8	223.8	220.8	205.4	*198.4*	195.4	186.4	176.4	158.5
20°	239.3	239.7	235.3	235.8	240.2	226.8	*219.8*	213.8	204.4	193.9	171.5
22.5°	262.7	261.7	254.7	251.7	261.7	250.2	*242.7*	236.3	224.8	212.8	192.4
25°	288.6	287.6	280.6	273.1	280.1	269.7	*261.7*	255.7	245.2	237.3	195.4
27.5°	313.5	312.5	300.6	299.6	293.6	288.6	*280.1*	278.6	270.7	247.2	193.9
30°	332.0	331.0	318.0	318.5	303.1	307.0	*294.6*	293.6	284.1	253.2	197.4
32.5°	338.9	339.9	334.5	332.0	311.0	327.0	*315.5*	311.5	309.0	269.2	214.8
35°	364.4	372.3	380.8	383.8	364.9	394.8	*371.3*	368.3	374.3	327.5	268.2
37.5°	560.2	556.3	524.9	480.5	470.5	536.3	*532.8*	535.3	531.3	466.0	354.9
40°	560.7	563.2	543.3	516.4	485.0	552.3	*603.6*	558.3	624.5	507.9	389.3
42.5°	589.2	581.2	628.5	639.0	604.1	704.3	*855.8*	684.9	827.9	619.1	529.8
45°	697.3	697.3	705.8	710.8	698.3	950.0	*1243.1*	955.5	1106.5	774.6	636.0
47.5°	809.0	799.5	847.8	929.1	977.4	1222.7	*1640.9*	1262.5	1500.8	1041.2	882.7
50°	1128.0	1141.4	1234.1	1328.8	1401.1	1820.3	*2641.7*	2163.2	2451.3	1601.0	1347.8
52.5°	1375.7	1454.4	1525.7	1791.4	1823.8	2487.2	*3472.6*	2902.4	3140.7	2249.4	1668.8
55°	1631.4	1787.4	1829.8	2298.8	2335.7	3196.0	*4134.0*	3676.5	3743.8	2965.7	1981.3
57.5°	2099.9	2317.7	2332.2	2832.6	2831.1	4117.6	*5161.3*	4787.5	4736.7	3776.7	2460.3
60°	2503.2	2751.4	2662.7	3356.0	3200.5	4797.0	*5718.1*	5341.3	5230.1	4427.1	2797.2
62.5°	2747.9	2990.1	2881.0	3700.9	3436.2	5121.9	*5919.4*	5699.6	5510.2	4820.9	3071.9
65°	*2930.3*	*3180.0*	*3016.5*	*3896.8*	*3431.7*	*5137.9*	*6026.1*	*5884.1*	*5662.3*	*4923.6*	*3132.2*
67.5°	2906.4	3150.1	2954.2	3819.0	3192.0	4678.8	*5712.6*	5535.7	5261.5	4527.3	2929.3
70°	2520.1	2667.1	2451.8	3252.8	2552.0	3619.2	*4450.1*	4347.9	4084.2	3465.6	2265.9
72.5°	2121.4	2157.7	1955.9	2546.0	1989.8	2636.7	*3381.4*	3272.2	3099.3	2571.9	1712.6
75°	1638.4	1638.4	1522.7	1909.0	1478.4	1871.1	*2559.5*	2531.6	2424.9	1930.0	1300.4
77.5°	1106.5	1048.7	1031.3	1289.5	1021.3	1234.6	*1781.9*	1847.7	1819.8	1381.7	948.0
80°	645.0	658.9	634.5	796.0	671.9	807.5	*1143.4*	1230.1	1227.7	917.6	622.1
82.5°	502.9	512.9	487.5	573.2	512.9	635.5	*801.5*	796.0	814.9	664.9	468.0
85°	495.4	502.9	476.5	529.8	492.5	603.6	*753.1*	751.6	747.7	615.6	439.6
87.5°	450.6	460.6	437.6	480.5	446.6	551.3	*684.4*	692.3	680.9	577.2	422.7
90°	376.8	387.3	377.3	427.2	392.3	475.5	*595.1*	601.1	591.1	514.4	381.3
92.5°	338.9	345.9	334.0	377.3	340.4	417.7	*525.9*	529.3	513.9	452.6	330.0
95°	312.5	319.5	304.5	336.4	300.6	368.3	*447.6*	459.1	436.1	381.8	281.1
97.5°	259.7	255.2	249.2	276.6	248.7	290.1	*342.4*	350.9	336.4	296.1	223.8
100°	224.8	226.3	223.8	243.7	218.3	249.2	*290.1*	293.6	287.6	258.2	202.4
102.5°	217.8	218.3	222.8	236.3	206.9	229.3	*264.2*	266.2	264.7	236.8	186.9
105°	215.8	215.3	217.8	232.3	201.9	209.8	*243.2*	244.2	239.3	220.3	175.0
107.5°	203.9	205.4	204.9	217.8	198.4	199.4	*220.8*	220.3	219.3	201.9	165.5
110°	233.8	231.3	220.8	221.3	202.4	207.4	*228.8*	226.3	221.3	210.8	180.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	332.5	325.5	313.5	274.1	254.2	268.2	*282.6*	285.1	279.6	270.2	228.3
115°	368.8	367.8	354.4	328.5	262.7	267.7	*277.1*	281.1	287.6	269.2	233.8
117.5°	302.6	319.0	298.1	301.6	264.2	232.3	*230.8*	222.8	226.3	224.3	216.3
120°	381.8	384.8	342.4	334.5	308.5	319.0	*319.5*	320.5	310.0	259.7	228.8
122.5°	536.8	536.8	548.8	570.7	557.3	538.3	*527.3*	516.4	501.9	454.1	388.3
125°	680.9	679.9	673.4	684.4	670.9	678.4	*681.9*	684.9	669.4	611.1	521.4
127.5°	548.8	562.7	586.2	645.5	608.1	597.6	*587.7*	594.6	583.2	572.2	516.4
130°	425.2	426.7	465.0	502.9	499.9	466.5	*455.1*	435.1	439.6	438.1	404.7
132.5°	363.4	365.4	387.8	409.2	427.2	402.7	*380.3*	369.8	373.3	370.8	349.4
135°	317.5	317.5	309.5	307.0	322.0	344.4	*341.9*	328.5	322.0	314.5	282.6
137.5°	274.6	273.6	259.2	251.2	263.2	292.1	*294.1*	294.1	287.6	269.7	246.7
140°	226.3	224.8	217.3	218.8	221.8	241.2	*242.7*	247.2	246.2	231.8	203.9
142.5°	171.5	172.0	182.9	195.4	202.4	244.2	*237.8*	232.8	248.7	247.7	177.9
145°	228.8	223.8	223.8	218.3	234.8	276.1	*263.2*	267.2	288.1	268.7	192.4
147.5°	209.8	212.3	212.8	211.8	232.8	235.3	*225.8*	226.3	233.8	233.8	196.9
150°	162.5	158.5	159.5	161.5	183.4	181.9	*173.5*	173.0	178.9	177.4	161.0
152.5°	128.6	128.1	127.6	129.6	147.5	140.1	*136.6*	135.1	134.1	132.6	128.6
155°	121.1	120.6	119.6	122.1	132.6	129.1	*127.1*	127.1	124.6	122.1	119.6
157.5°	107.7	107.2	107.7	112.6	118.6	114.6	*114.1*	113.6	112.6	109.7	108.7
160°	100.7	100.2	101.2	105.2	107.7	104.2	*103.2*	103.7	103.2	101.7	103.7
162.5°	95.2	95.2	95.2	97.7	98.7	96.2	*95.7*	96.2	96.7	96.7	99.2
165°	92.2	92.2	92.7	94.2	94.2	93.2	*92.2*	92.2	94.7	95.7	97.7
167.5°	94.2	94.2	94.7	95.2	95.2	94.2	*94.2*	94.7	96.2	97.2	97.2
170°	97.2	97.2	97.2	97.7	97.2	95.7	*95.7*	95.7	96.2	96.2	96.7
172.5°	100.7	100.7	100.7	100.2	99.2	98.7	*97.7*	97.7	98.2	97.7	98.2
175°	105.7	105.2	105.2	104.7	104.2	103.7	*103.2*	102.7	102.7	101.2	101.2
177.5°	108.2	107.7	108.2	108.2	107.7	106.7	*105.7*	105.7	105.2	104.2	103.7
180°	104.2	104.2	104.2	104.2	104.2	104.2	*104.2*	104.2	104.2	104.2	104.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	41.9	40.4	36.4	32.9	30.4	29.4	29.4	27.9	25.9	24.4	23.9
5°	55.3	54.3	52.8	50.8	46.4	40.4	35.4	33.4	32.4	31.9	31.4
7.5°	78.3	79.3	81.2	80.7	72.3	56.3	46.9	46.4	51.8	57.8	59.8
10°	101.2	100.2	106.7	112.1	91.2	63.8	48.3	46.9	54.3	64.8	66.3
12.5°	121.1	116.1	112.6	106.7	87.2	63.8	51.8	48.8	52.3	60.3	60.3
15°	136.1	129.6	115.1	101.2	83.7	65.8	53.8	51.8	51.8	49.3	49.8
17.5°	147.5	135.6	114.6	96.7	77.8	62.8	53.3	47.9	44.9	40.9	39.9
20°	161.0	152.5	124.6	99.7	76.8	60.8	51.8	45.4	41.9	40.4	39.9
22.5°	175.5	158.0	131.1	100.7	76.8	61.8	51.3	44.4	41.4	40.4	40.4
25°	176.9	162.0	134.6	104.7	79.3	63.8	52.3	44.9	41.9	40.9	40.4
27.5°	175.0	164.5	140.6	109.2	81.7	65.8	54.3	45.9	41.9	40.4	39.9
30°	182.4	174.0	147.5	112.1	84.2	68.3	56.3	47.9	42.9	39.9	39.4
32.5°	201.4	189.4	157.0	114.1	85.2	68.8	58.3	49.8	43.9	40.4	39.9
35°	251.2	240.2	193.4	121.1	85.2	69.8	59.8	51.3	44.9	40.9	40.4
37.5°	323.5	303.1	237.8	144.5	86.2	71.8	61.3	53.3	46.4	41.9	40.9
40°	342.9	289.6	201.9	129.6	88.2	73.8	63.8	55.3	48.3	43.4	42.9
42.5°	445.1	370.3	249.2	137.1	94.2	75.3	65.3	57.3	49.8	44.9	43.9
45°	476.5	370.8	253.2	158.5	110.7	81.7	67.8	58.8	50.8	45.9	45.4
47.5°	624.5	460.1	258.2	170.0	124.1	94.2	73.8	60.8	51.8	46.9	46.4
50°	915.6	649.0	320.5	212.3	153.5	115.1	86.7	64.8	52.8	48.3	47.4
52.5°	1142.4	778.6	347.4	259.7	203.9	152.0	109.2	75.3	55.8	49.3	48.3
55°	1392.6	956.5	394.8	313.0	247.2	190.4	138.6	90.7	61.8	50.8	49.8
57.5°	1737.1	1141.9	463.5	369.3	300.1	222.3	158.0	106.2	69.8	54.3	52.3
60°	1946.4	1220.7	474.5	399.7	331.5	247.7	166.5	112.6	78.3	59.3	56.3
62.5°	2146.8	1275.0	477.5	411.7	338.9	252.7	167.5	109.7	81.2	66.3	62.3
65°	*2187.6*	*1221.2*	*478.5*	*414.2*	*330.0*	*239.7*	*162.0*	*106.7*	*77.8*	*72.3*	*72.8*
67.5°	2049.6	1084.6	443.6	396.3	306.0	213.8	145.5	102.2	76.8	71.3	72.8
70°	1611.4	849.8	405.2	367.3	259.7	181.9	129.6	96.2	76.8	68.8	67.3
72.5°	1251.1	726.2	415.2	348.9	222.3	162.5	117.1	89.7	74.3	68.3	67.3
75°	971.0	606.1	409.2	307.0	181.4	139.6	105.2	82.2	70.8	67.3	66.8
77.5°	709.8	478.0	338.4	235.3	150.5	118.6	92.7	77.3	68.8	65.8	65.3
80°	456.6	334.5	235.8	187.9	132.1	108.2	86.7	73.8	67.8	65.8	65.3
82.5°	384.8	303.5	212.3	177.9	127.6	110.2	90.7	77.3	71.3	69.3	68.8
85°	370.3	312.5	218.3	185.4	122.1	105.2	88.7	77.3	71.8	69.3	68.8
87.5°	351.9	282.6	215.3	170.5	117.6	101.2	87.2	79.3	73.8	72.3	71.8
90°	318.5	249.2	197.4	158.5	124.1	107.7	96.2	87.7	82.2	78.8	77.8
92.5°	268.7	200.4	169.5	156.5	136.1	122.1	110.7	103.2	97.2	93.7	92.2
95°	226.3	175.0	147.5	138.6	120.1	109.7	98.7	93.2	88.7	85.7	85.7
97.5°	184.4	150.0	137.1	130.1	115.1	103.7	94.7	89.2	87.7	86.7	86.2
100°	173.5	147.0	138.1	132.1	120.1	109.7	102.7	97.7	97.2	96.7	96.7
102.5°	161.0	139.1	129.1	123.1	111.2	102.2	97.2	93.2	91.7	90.2	88.7
105°	152.0	131.6	124.1	116.1	106.7	97.7	92.7	86.7	85.7	85.2	85.2
107.5°	147.5	130.6	126.6	114.1	105.2	101.2	95.2	87.7	86.2	84.2	84.2
110°	163.0	145.0	133.6	118.1	108.7	105.2	103.7	97.2	92.2	86.2	85.7

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

Scaled Data Report

REPORT NUMBER: P1046565
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	201.9	177.4	164.0	141.1	121.6	113.1	106.7	99.7	96.7	92.7	91.2
115°	217.3	192.4	175.5	152.5	130.1	115.1	105.7	104.7	101.7	99.2	101.7
117.5°	222.8	175.0	144.5	139.1	122.1	110.2	105.7	104.2	105.2	105.2	100.7
120°	240.2	188.9	177.4	170.5	138.6	119.1	109.2	114.1	113.1	107.2	107.2
122.5°	358.4	320.0	282.1	235.3	195.4	172.5	138.6	116.1	111.7	107.7	105.2
125°	472.0	437.6	378.3	316.0	247.2	182.9	137.6	121.6	113.1	108.2	109.2
127.5°	481.0	444.6	376.8	300.6	220.8	171.0	138.6	124.6	115.1	109.7	108.7
130°	375.8	349.9	299.1	243.2	187.4	153.0	128.1	114.1	105.7	100.7	99.7
132.5°	332.5	310.5	257.7	208.8	171.0	142.1	120.6	105.2	99.2	95.7	95.2
135°	265.7	247.2	211.8	185.4	159.0	135.1	113.6	99.2	93.7	93.2	92.2
137.5°	232.8	217.8	190.4	168.5	146.5	123.6	105.7	93.7	91.2	91.7	90.2
140°	189.9	183.4	168.0	149.0	125.6	101.7	89.2	85.2	89.2	91.2	91.2
142.5°	163.0	154.5	137.1	115.1	100.2	89.2	87.7	86.2	88.2	89.2	89.2
145°	150.0	140.1	125.6	117.6	110.7	101.2	93.2	86.2	84.2	84.7	84.7
147.5°	169.5	158.0	148.5	133.6	116.6	100.7	88.7	80.7	80.7	82.7	83.2
150°	140.6	130.6	124.1	115.6	102.7	89.7	81.2	77.3	78.8	82.7	83.2
152.5°	117.6	105.7	101.7	96.7	89.7	82.7	78.8	76.8	79.3	82.2	82.2
155°	114.6	104.2	99.2	94.2	87.7	81.7	78.3	77.3	79.8	81.7	82.2
157.5°	107.7	101.7	95.2	91.2	86.2	81.7	79.3	78.3	80.2	81.7	82.2
160°	103.7	100.2	92.7	89.2	84.7	81.7	81.2	81.2	82.2	82.7	82.7
162.5°	99.2	97.2	92.7	89.7	86.7	85.2	86.2	86.7	86.7	86.2	86.2
165°	97.7	96.7	92.7	90.2	88.7	89.2	91.2	91.7	90.2	89.2	89.2
167.5°	97.2	97.2	94.2	92.2	91.7	92.7	94.7	94.7	93.2	91.2	90.7
170°	97.2	97.7	96.7	96.7	95.7	96.2	96.7	96.7	95.7	94.7	94.2
172.5°	98.7	98.7	98.7	98.7	98.2	98.7	99.2	99.2	99.2	98.7	98.7
175°	101.2	101.2	101.2	100.7	100.2	100.2	100.7	101.2	101.7	101.7	101.7
177.5°	103.7	103.2	102.7	103.2	102.7	102.7	103.7	104.2	104.7	104.7	104.7
180°	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

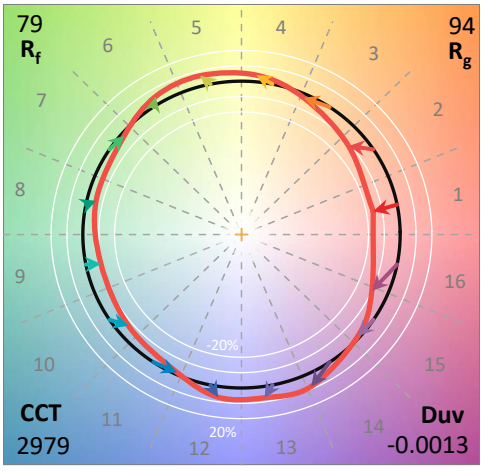
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

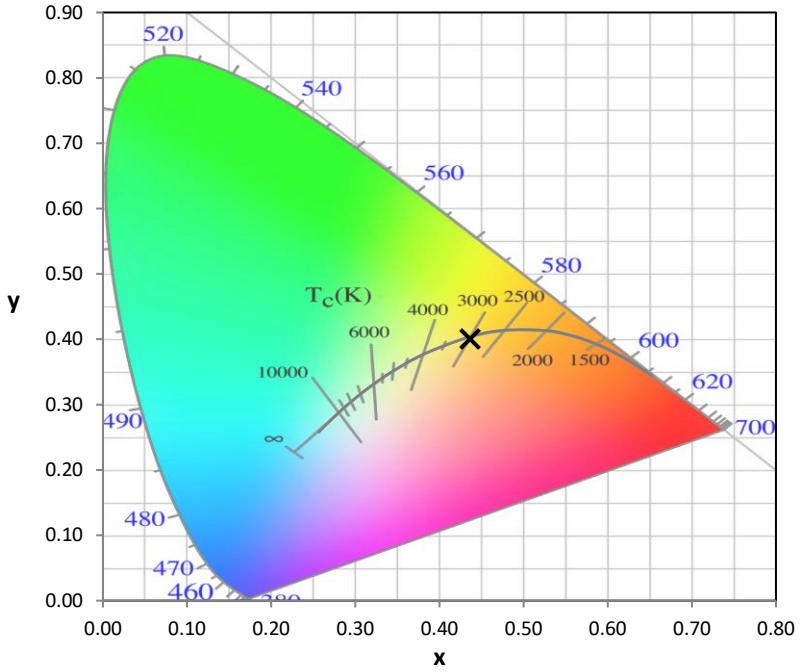
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

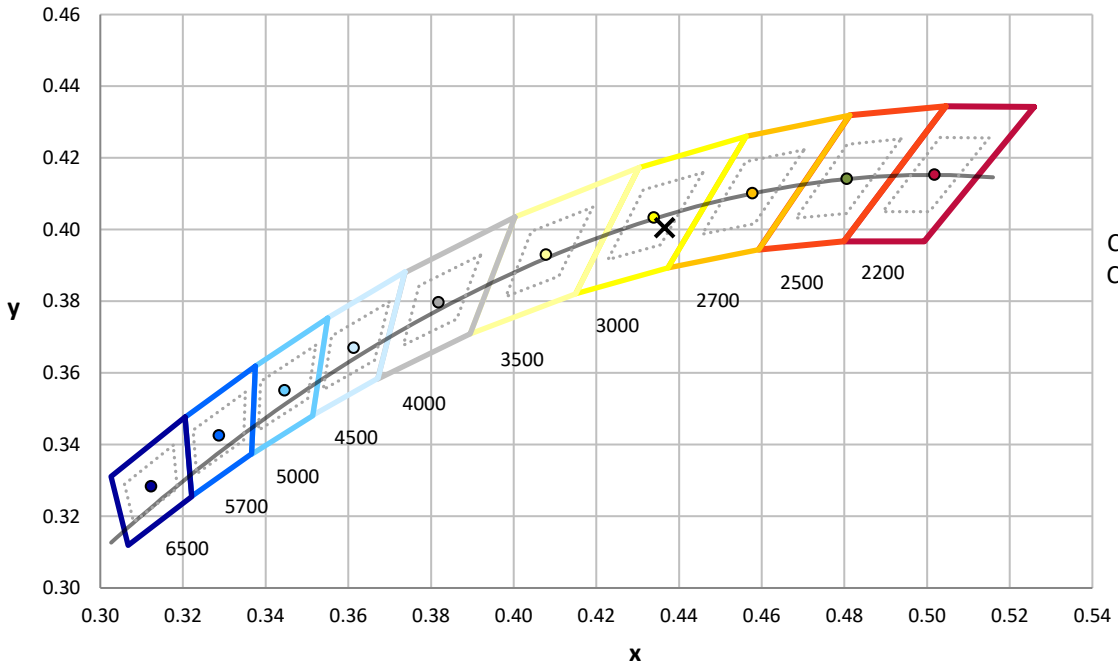
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

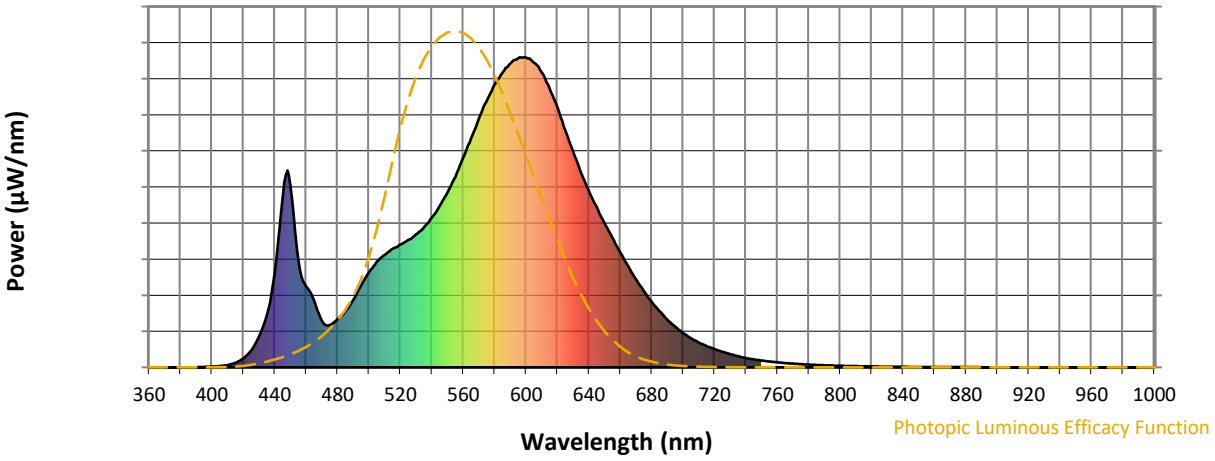


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

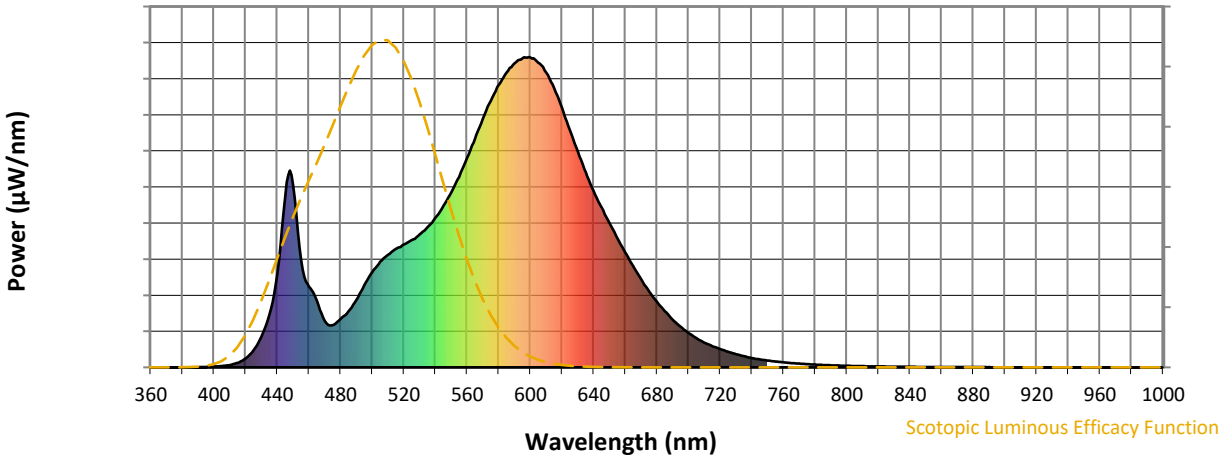


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

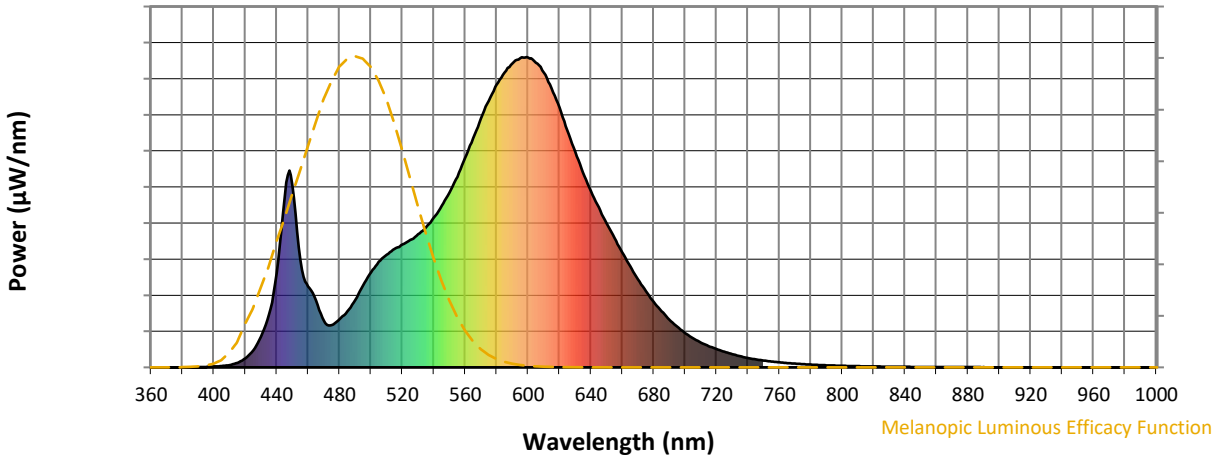


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

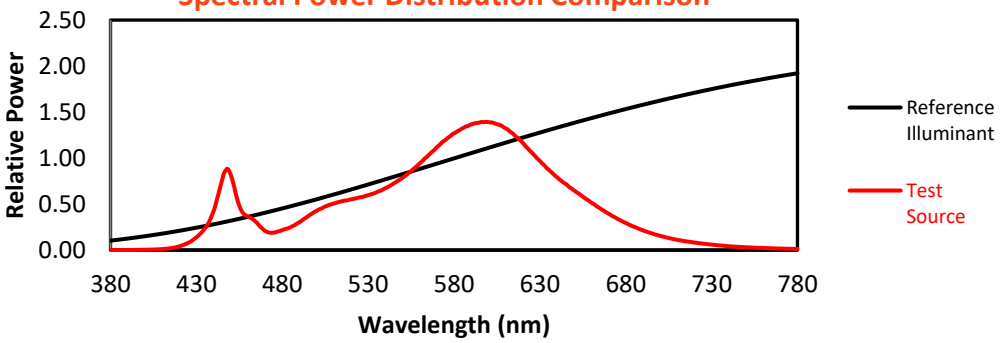
REPORT NUMBER: SP1-2501-332-9

TM-30-18

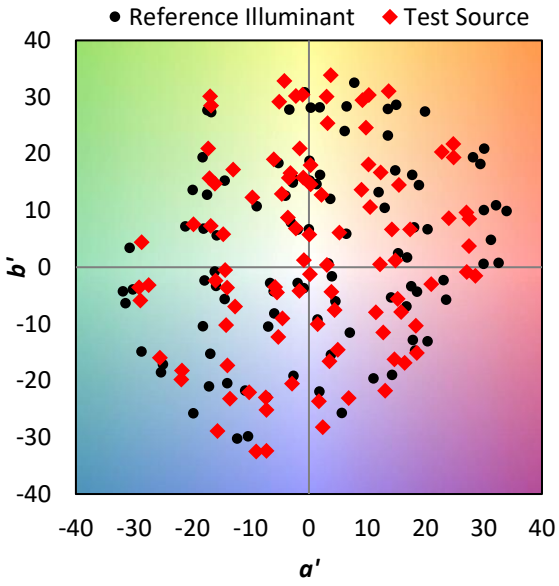
Summary

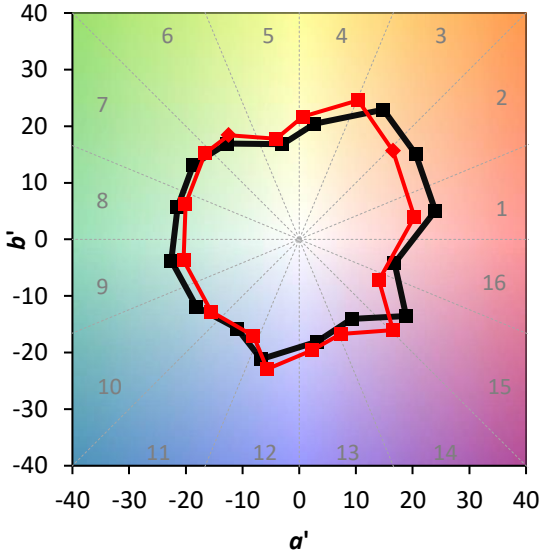
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

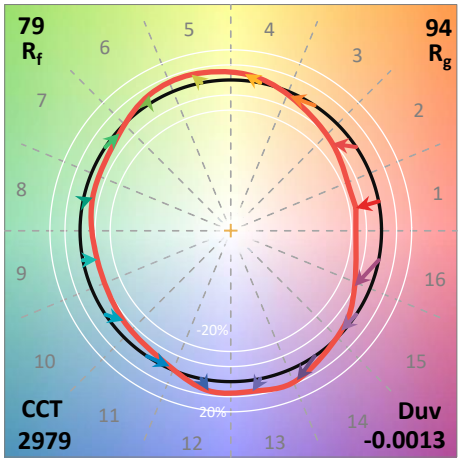
Spectral Power Distribution Comparison

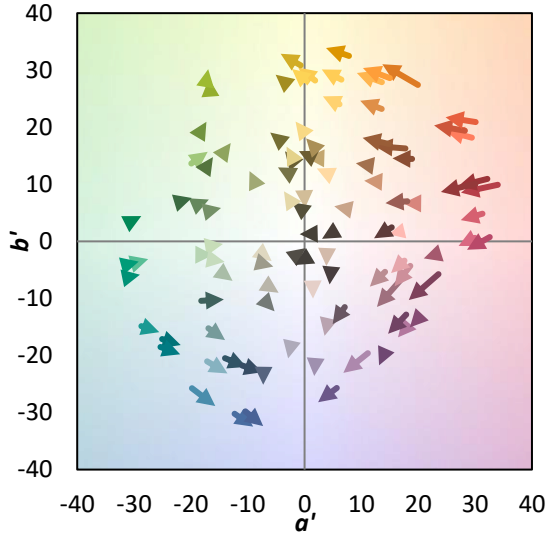


Color Vector Graphics







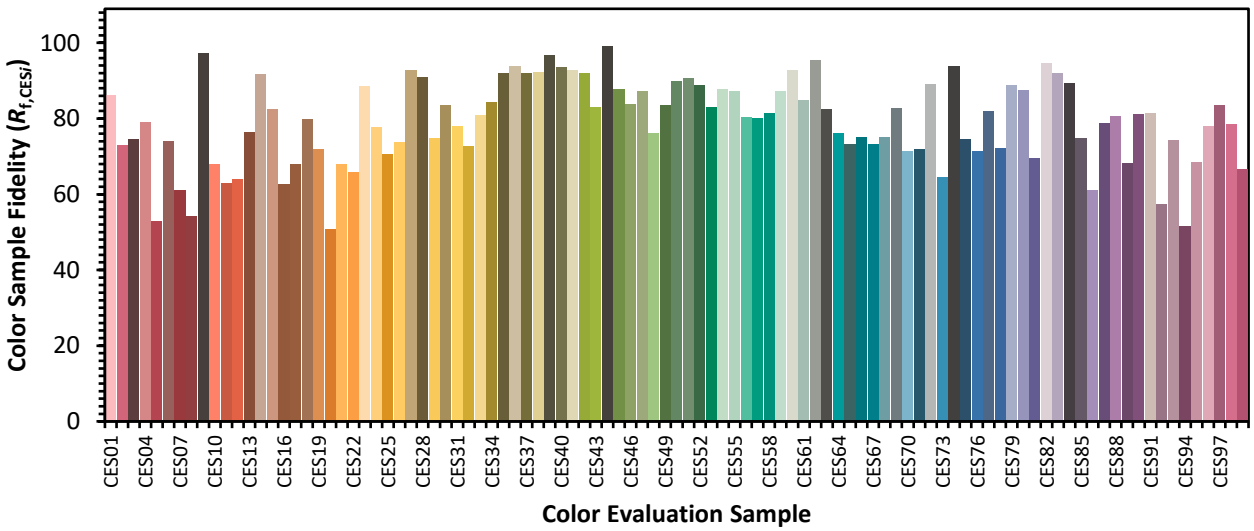


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

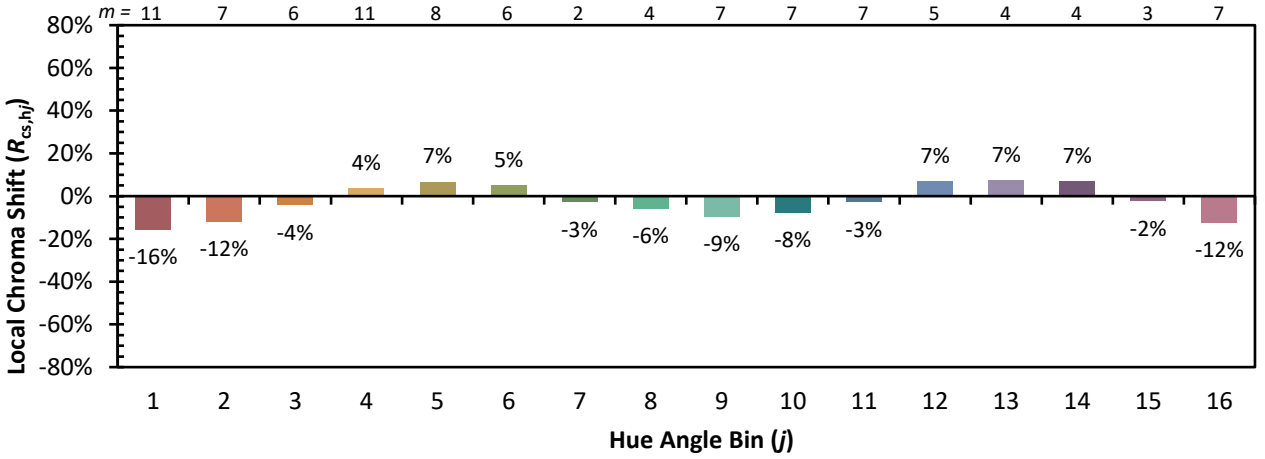
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
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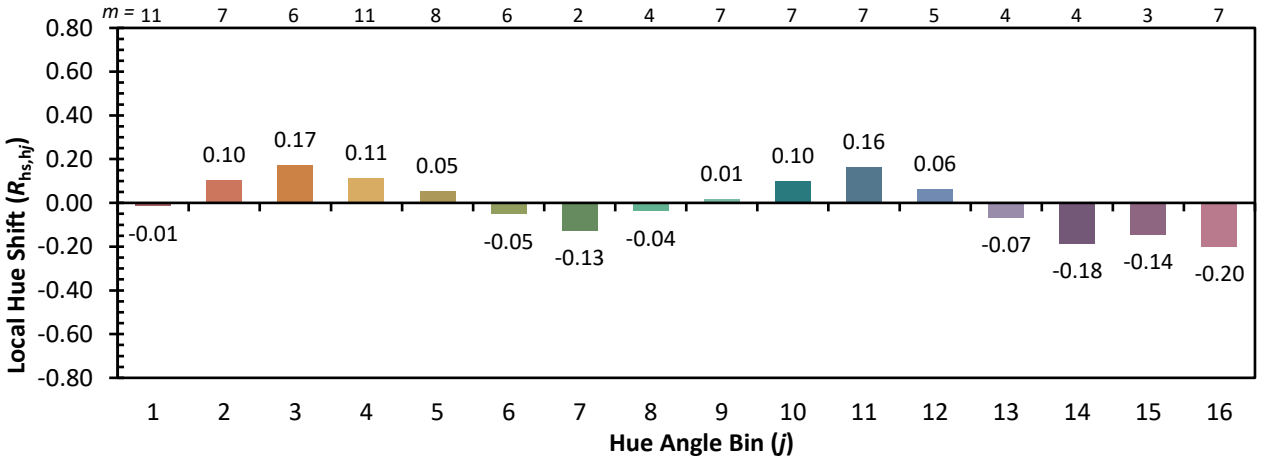


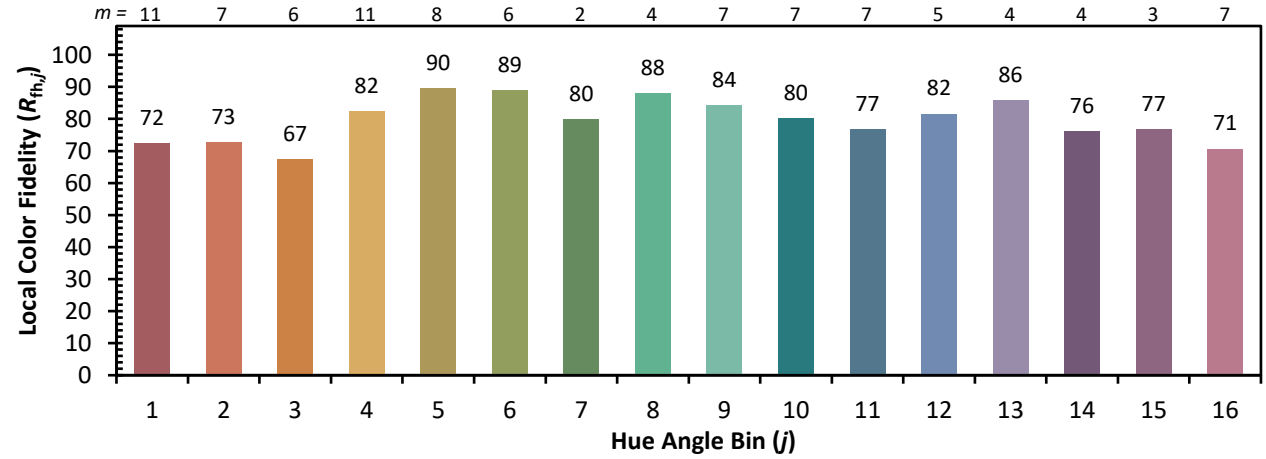
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Color Rendition by Hue-Angle Bin



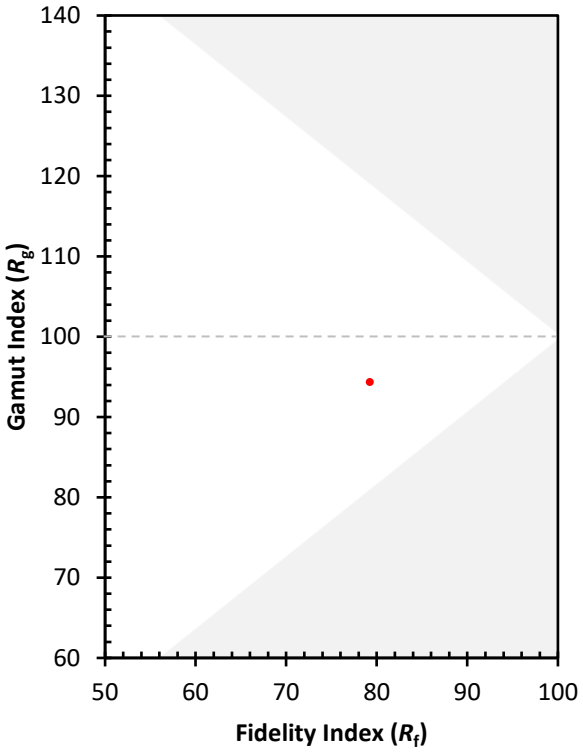


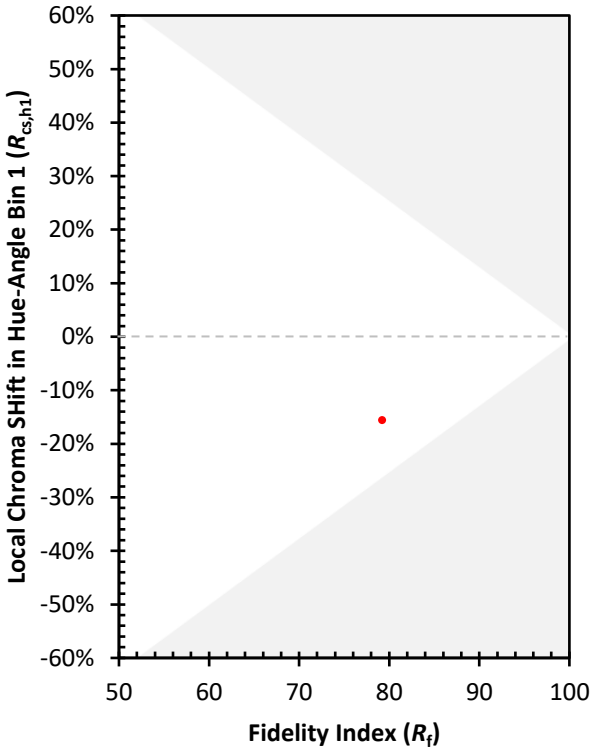


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Measure Comparisons





(END OF REPORT)