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: P1046206

Luminaire Tested: **FFX-CLB-40-730-U-FR-T4-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046206
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-730-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5754.4 lumens
Efficiency:	N/A
Efficacy:	146.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

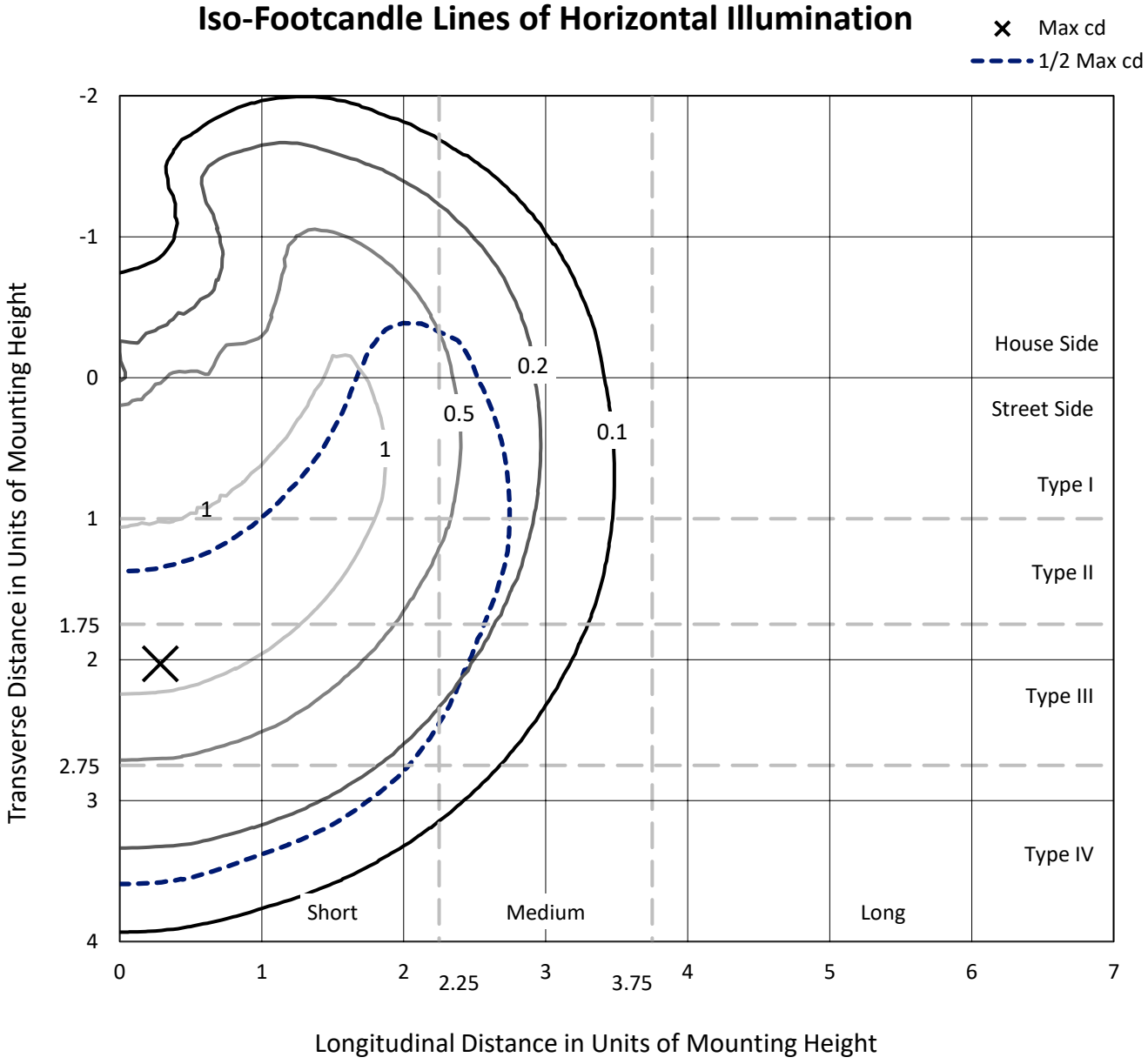


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Iso-Footcandle Lines of Horizontal Illumination



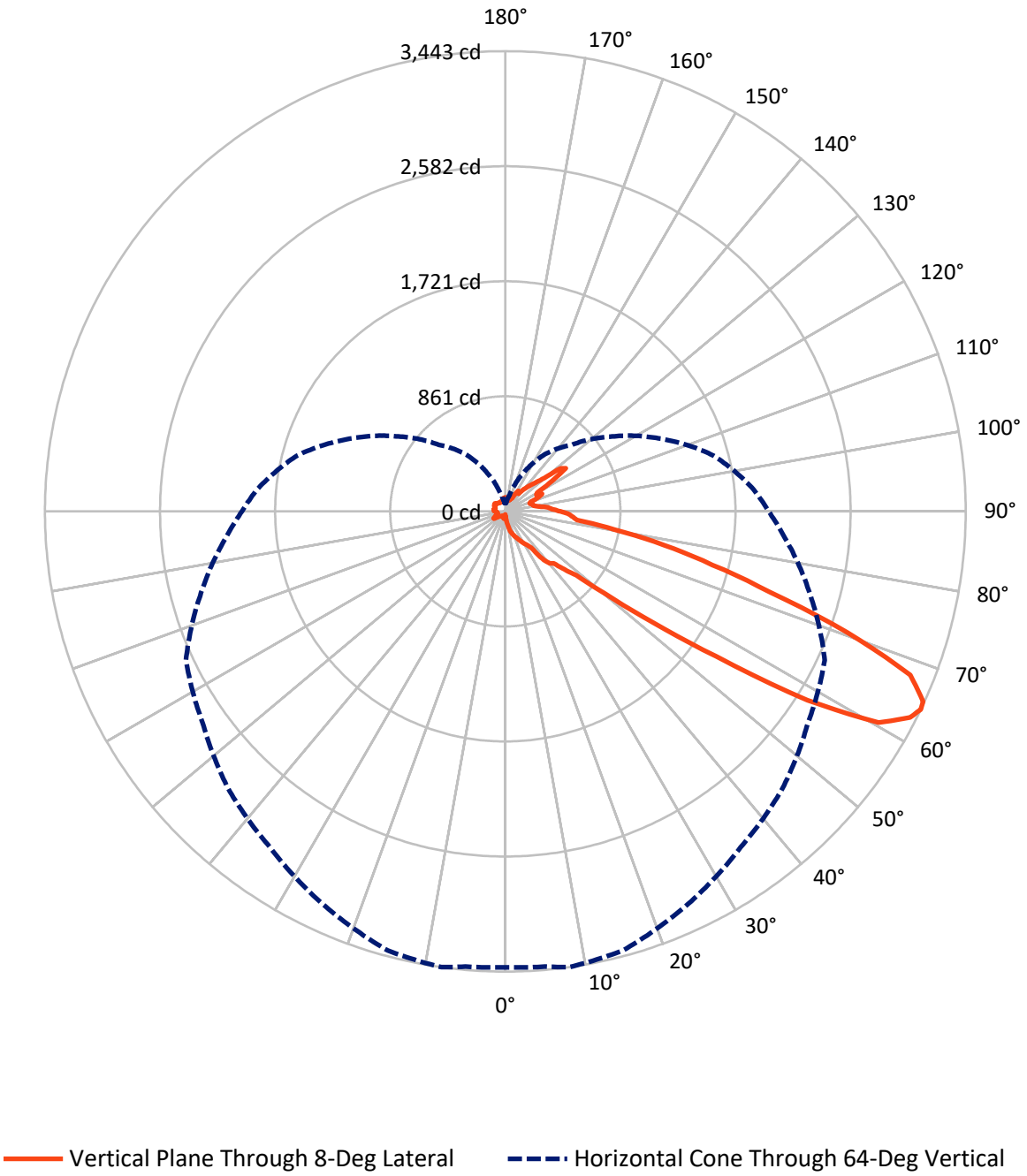
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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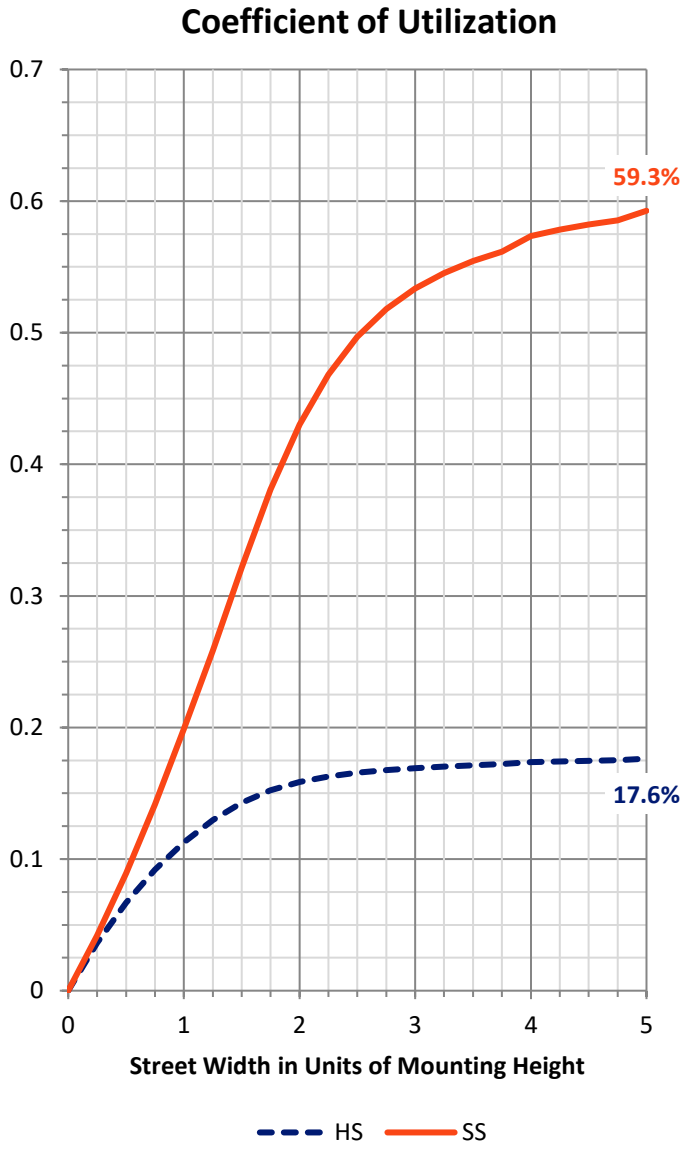
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1052.4	393.1	1445.5
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	3556.2	752.7	4308.9
	% Fixture	61.8	13.1	74.9
Total	Lumens	4608.5	1145.9	5754.4
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	31.7	0.6
20°-30°	68.8	1.2
30°-40°	137.5	2.4
40°-50°	297.6	5.2
50°-60°	1031.5	17.9
60°-70°	1735.1	30.2
70°-80°	943.5	16.4
80°-90°	357.1	6.2
90°-100°	225.4	3.9
100°-110°	152.0	2.6
110°-120°	164.5	2.9
120°-130°	270.7	4.7
130°-140°	166.7	2.9
140°-150°	87.2	1.5
150°-160°	45.4	0.8
160°-170°	24.7	0.4
170°-180°	9.3	0.2
0°-90°	4608.5	80.1
0°-180°	5754.4	100.0



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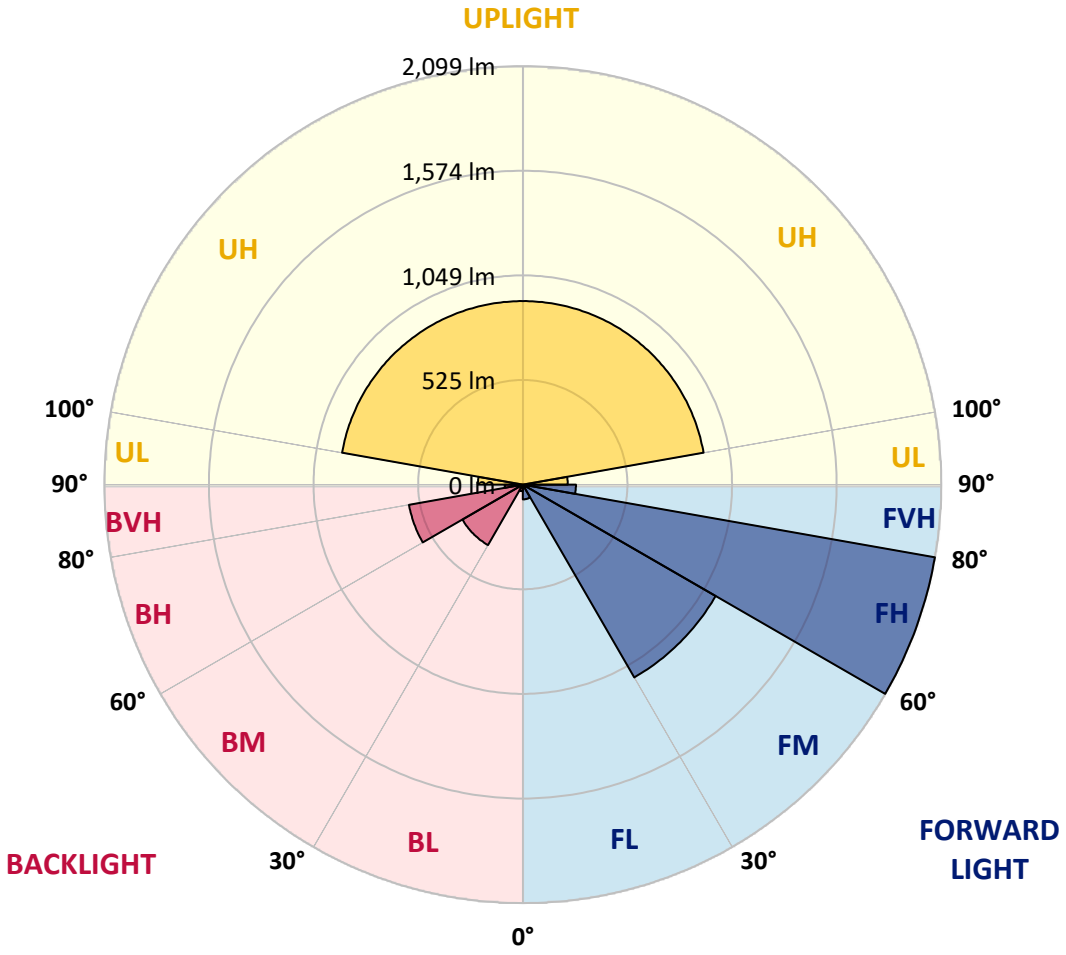
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	74.0	1.3			
FM	(30°-60°)	1116.7	19.4			
FH	(60°-80°)	2099.0	36.5			G2/5000
FVH	(80°-90°)	266.4	4.6			G3/500
BL	(0°-30°)	32.3	0.6	B0/110		
BM	(30°-60°)	349.8	6.1	B1/1000		
BH	(60°-80°)	579.6	10.1	B2/1000		G2/1000
BVH	(80°-90°)	90.7	1.6			G1/100
UL	(90°-100°)	225.4	3.9		U3/500	
UH	(100°-180°)	920.5	16.0		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	37.0	37.0	*37.0*	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
2.5°	40.2	40.2	*40.2*	41.4	42.2	42.6	41.4	40.6	40.2	39.8	38.6
5°	57.7	58.1	*58.1*	59.3	58.5	59.3	57.7	56.5	54.5	52.1	50.1
7.5°	81.5	81.5	*81.2*	81.5	81.2	79.6	79.6	80.8	77.6	72.8	68.4
10°	110.6	111.4	*111.0*	109.4	107.0	105.0	105.0	106.6	101.8	93.5	87.1
12.5°	140.0	141.6	*140.0*	140.4	136.4	134.9	131.7	130.9	124.5	116.6	105.4
15°	161.9	163.1	*163.5*	164.7	164.3	159.1	153.6	147.6	142.4	135.3	123.7
17.5°	179.4	179.8	*180.6*	180.2	177.8	172.6	166.3	159.9	151.6	144.0	133.3
20°	196.5	198.1	*197.7*	197.3	196.1	192.1	184.6	175.4	168.3	157.1	146.0
22.5°	214.0	212.8	*213.6*	213.2	213.2	209.2	201.3	190.5	181.0	169.9	159.9
25°	234.3	233.9	*234.3*	233.1	231.5	229.5	219.6	207.3	196.5	185.0	171.1
27.5°	255.8	256.2	*256.6*	254.6	252.6	249.4	235.1	222.8	211.2	196.9	177.4
30°	279.7	278.5	*278.9*	276.1	274.9	264.9	251.0	236.3	223.6	204.5	185.4
32.5°	301.5	299.5	*299.1*	296.8	294.8	280.5	266.1	251.8	236.7	217.2	200.5
35°	332.2	336.1	*334.6*	334.6	339.7	317.8	301.1	287.2	270.9	250.6	233.1
37.5°	457.1	456.3	*451.5*	445.1	427.2	411.7	404.2	382.3	356.0	333.8	305.9
40°	517.5	515.2	*510.0*	497.3	484.5	466.2	454.7	441.2	427.6	388.3	343.7
42.5°	531.9	529.9	*531.1*	546.2	562.9	549.4	504.4	455.5	431.6	405.0	382.7
45°	610.2	617.0	*619.0*	618.6	606.7	592.3	572.8	543.4	502.0	464.2	417.7
47.5°	709.7	708.9	*713.7*	707.3	717.2	692.2	667.1	636.5	593.5	542.2	486.5
50°	969.8	961.5	*962.7*	965.1	950.0	931.7	909.0	891.9	807.9	735.1	650.4
52.5°	1383.2	1384.4	*1375.6*	1375.2	1330.3	1294.9	1255.1	1256.7	1133.3	1035.5	913.0
55°	1944.1	1944.9	*1913.4*	1939.3	1888.8	1884.0	1796.1	1682.7	1516.8	1383.6	1260.2
57.5°	2642.6	2666.5	*2663.7*	2617.5	2540.4	2498.6	2356.6	2237.6	2002.9	1793.7	1626.2
60°	3237.7	3226.6	*3208.3*	3173.3	2942.2	2845.1	2740.5	2639.0	2444.5	2154.9	1904.3
62.5°	3407.6	3399.2	*3396.1*	3378.5	3196.0	3036.0	2904.4	2738.5	2608.4	2324.4	2069.0
64°	*3410.4*	*3417.9*	*3442.6*	*3400.8*	*3238.5*	*3067.9*	*2931.4*	*2762.0*	*2635.5*	*2355.4*	*2088.9*
65°	3404.0	3402.4	*3433.4*	3380.5	3236.5	3066.3	2914.7	2752.4	2627.1	2347.0	2083.7
67.5°	3233.3	3226.6	*3266.4*	3198.3	3072.6	2919.1	2770.3	2596.1	2485.9	2217.0	1962.0
70°	2653.4	2653.0	*2715.0*	2658.1	2620.7	2458.0	2306.1	2146.2	2028.4	1807.6	1594.4
72.5°	2033.2	2029.6	*2071.0*	2028.4	2009.3	1932.5	1790.5	1649.3	1537.1	1371.6	1199.0
75°	1620.3	1621.8	*1600.0*	1558.2	1542.7	1508.5	1445.2	1360.9	1267.0	1116.6	957.5
77.5°	1213.3	1205.3	*1214.9*	1156.4	1152.0	1141.7	1141.3	1087.2	1007.6	911.8	785.7
80°	808.7	813.5	*830.6*	815.1	819.5	815.9	838.2	780.9	720.4	663.9	596.7
82.5°	523.1	535.8	*540.6*	562.1	580.8	589.1	558.5	500.8	463.0	442.4	412.5
85°	502.0	507.2	*504.4*	491.7	485.3	475.0	474.6	456.3	436.8	397.0	348.5
87.5°	463.0	469.0	*466.6*	455.5	441.2	440.0	437.2	424.5	415.3	383.9	340.9
90°	395.0	395.4	*397.4*	395.4	392.6	390.6	374.7	367.2	361.6	334.6	305.5
92.5°	342.5	347.3	*346.1*	342.5	333.4	338.9	321.8	307.5	304.3	285.6	263.3
95°	314.7	317.8	*318.6*	312.3	303.5	301.5	288.4	277.3	272.1	259.8	232.7
97.5°	261.0	259.0	*257.4*	255.8	249.8	243.5	235.1	221.2	216.8	203.3	188.2
100°	222.8	223.6	*222.8*	221.6	216.4	213.2	207.3	196.1	191.3	182.6	172.2
102.5°	212.4	212.8	*212.8*	213.2	204.5	197.3	190.9	183.0	178.6	171.1	161.1
105°	202.9	202.9	*203.7*	204.1	195.3	185.0	175.8	171.5	169.5	160.7	150.4
107.5°	190.9	190.5	*191.7*	186.6	177.8	173.4	163.9	158.7	157.9	151.2	140.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	208.4	204.1	*203.3*	190.5	178.6	168.7	163.9	159.1	156.3	147.2	140.4
112.5°	272.9	266.9	*265.3*	253.4	211.6	208.1	203.7	202.1	200.5	188.2	176.6
115°	300.7	300.7	*305.5*	300.7	271.7	238.7	233.9	226.7	229.5	214.4	197.7
117.5°	240.7	257.4	*262.2*	247.8	249.0	227.9	195.3	184.2	178.6	174.2	181.8
120°	270.1	281.2	*276.5*	250.2	238.3	226.0	227.5	223.6	203.7	176.2	179.0
122.5°	402.6	412.9	*416.5*	418.5	424.1	415.7	397.0	370.8	350.9	317.8	299.1
125°	563.7	556.1	*555.3*	558.9	563.3	552.5	544.6	539.4	527.1	483.7	422.9
127.5°	517.5	514.0	*519.9*	519.1	529.9	511.6	508.0	510.8	506.0	481.7	446.3
130°	371.2	377.5	*381.9*	396.2	417.3	401.0	385.9	363.2	361.6	373.5	354.8
132.5°	311.5	314.3	*322.2*	340.9	356.8	350.1	327.8	305.9	304.3	314.3	312.7
135°	275.3	277.3	*278.5*	279.3	276.5	282.8	278.1	270.1	264.9	265.3	260.6
137.5°	245.8	246.6	*245.8*	239.5	231.9	230.7	242.7	243.1	238.3	229.9	223.6
140°	213.2	213.2	*210.0*	205.7	204.5	204.9	211.6	212.8	207.3	200.5	190.9
142.5°	166.7	164.7	*165.1*	172.2	185.0	182.2	173.4	162.3	160.7	168.7	165.5
145°	180.2	179.8	*178.6*	179.0	175.8	170.7	167.5	163.9	157.5	152.4	147.2
147.5°	181.8	180.2	*181.0*	179.4	177.8	175.4	174.2	175.8	174.2	170.7	163.9
150°	143.6	144.4	*145.2*	143.2	144.8	145.6	144.8	143.6	145.6	141.2	138.4
152.5°	112.2	111.8	*111.4*	112.2	111.8	113.4	113.8	113.4	112.6	112.2	107.8
155°	105.4	106.6	*105.8*	103.4	105.0	106.2	107.8	109.0	107.8	105.8	101.8
157.5°	97.1	97.1	*97.1*	97.1	97.5	97.9	99.8	100.6	100.6	99.5	96.7
160°	90.3	90.7	*90.7*	90.7	91.5	92.3	93.5	94.3	95.1	94.3	92.7
162.5°	86.3	85.9	*85.9*	86.3	86.3	87.5	88.7	90.3	90.7	89.9	89.9
165°	83.9	83.9	*83.9*	84.3	85.1	85.9	87.5	87.9	88.3	89.1	89.1
167.5°	86.7	86.7	*86.7*	87.1	87.9	89.1	89.9	90.7	92.3	92.7	92.7
170°	91.1	91.1	*91.1*	91.5	91.9	92.3	92.7	93.5	93.9	94.7	94.3
172.5°	95.5	95.1	*95.5*	95.5	95.5	95.5	95.5	95.9	96.3	96.3	96.3
175°	100.2	100.2	*100.6*	100.2	99.5	99.5	99.5	99.8	99.8	99.8	99.5
177.5°	105.0	105.0	*104.6*	105.0	104.6	104.2	103.8	103.4	102.6	102.6	101.8
180°	102.2	102.2	*102.2*	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
2.5°	37.8	36.2	34.2	31.8	29.4	27.8	26.3	24.3	23.1	22.7	22.7
5°	47.7	46.5	44.6	41.4	39.4	35.8	32.6	30.6	28.6	26.7	25.1
7.5°	66.8	66.4	67.6	70.0	66.8	58.5	49.7	45.0	45.3	47.7	48.9
10°	83.9	81.5	81.9	87.5	82.3	66.4	54.5	50.1	52.5	57.3	58.1
12.5°	101.8	98.3	95.5	94.3	82.7	64.8	54.1	48.9	50.1	54.1	54.1
15°	118.1	113.8	107.4	99.1	85.5	69.6	56.5	48.9	48.9	48.5	47.7
17.5°	127.3	122.5	111.0	97.9	83.1	68.8	55.3	47.7	43.8	40.6	40.2
20°	141.6	139.2	124.5	105.8	85.5	67.2	53.3	45.7	41.4	39.0	38.2
22.5°	155.5	148.8	129.7	110.6	87.5	66.8	52.5	45.3	41.4	39.4	38.6
25°	163.1	154.7	135.7	116.2	90.3	67.2	53.3	46.1	41.8	39.8	39.4
27.5°	169.1	160.3	142.4	121.3	93.9	68.8	55.7	47.3	42.6	40.2	39.8
30°	177.0	168.7	150.4	127.7	97.1	72.4	58.5	49.3	43.8	41.4	41.0
32.5°	192.1	181.8	160.3	133.3	101.0	76.0	62.1	52.5	45.7	42.2	42.2
35°	223.6	212.4	183.8	148.4	105.4	78.8	64.4	54.5	47.3	43.4	43.0
37.5°	289.6	275.7	240.7	185.8	116.2	82.7	67.2	55.7	48.1	44.6	43.8
40°	321.4	295.6	256.2	207.7	134.1	89.1	71.6	58.5	49.3	45.0	44.6
42.5°	360.0	338.5	284.4	213.2	148.8	103.8	79.2	62.5	51.7	45.7	45.3
45°	397.8	376.7	328.6	259.4	179.0	126.9	91.5	69.2	55.3	47.7	46.5
47.5°	463.8	429.2	371.5	303.5	220.4	160.7	112.6	78.8	61.3	50.1	48.5
50°	627.3	604.7	516.3	412.1	286.8	209.2	153.2	101.0	68.0	51.7	49.3
52.5°	846.1	803.2	702.9	575.2	416.1	310.7	224.0	150.0	83.5	53.3	50.1
55°	1192.6	1125.8	1010.4	789.2	597.1	471.0	350.5	246.2	127.3	56.9	50.5
57.5°	1563.0	1502.5	1364.9	1090.8	809.1	599.9	461.5	347.7	178.6	64.8	54.9
60°	1810.8	1705.4	1548.3	1283.3	978.2	705.3	516.3	364.8	185.4	66.4	57.3
62.5°	1952.8	1843.8	1611.5	1307.2	1008.4	728.8	540.2	334.2	148.0	64.4	59.7
64°	*1969.5*	*1864.5*	*1612.3*	*1284.5*	*976.2*	*704.5*	*523.5*	*313.5*	*128.5*	*63.6*	*60.9*
65°	1956.4	1859.3	1592.8	1257.5	932.8	673.1	503.6	292.8	114.2	62.9	61.3
67.5°	1828.7	1743.6	1464.3	1140.5	829.4	581.2	413.3	225.2	89.5	61.3	60.5
70°	1481.0	1442.0	1203.8	920.1	655.6	463.4	325.8	172.2	76.0	59.7	58.9
72.5°	1111.1	1061.7	898.2	702.1	510.8	360.4	247.4	132.5	67.2	58.1	57.3
75°	890.7	842.5	712.1	552.9	379.9	269.3	183.0	99.1	63.3	57.7	56.9
77.5°	736.3	697.7	585.6	420.9	270.1	192.9	134.5	80.8	62.1	58.1	57.3
80°	566.5	560.1	457.5	306.3	191.3	144.0	108.6	75.6	62.5	59.7	58.9
82.5°	397.4	381.5	323.0	227.9	165.5	131.7	104.2	76.8	65.6	63.3	62.9
85°	327.4	315.1	276.5	219.2	157.5	127.3	103.0	78.8	68.8	66.8	66.0
87.5°	323.8	310.3	273.7	209.6	149.6	121.3	98.3	76.8	68.4	67.2	68.0
90°	294.0	284.0	250.2	193.3	148.4	123.3	102.6	84.7	76.0	72.0	71.2
92.5°	257.4	251.4	227.5	187.8	154.0	130.5	111.8	93.9	85.9	83.5	82.3
95°	224.8	222.4	202.9	170.7	142.0	122.9	105.8	90.3	83.5	80.4	80.0
97.5°	184.2	181.4	166.3	145.2	124.1	108.2	95.5	83.5	78.8	78.4	78.0
100°	168.3	166.3	155.5	142.0	125.3	113.4	102.2	92.3	88.3	88.3	88.7
102.5°	155.5	154.3	144.8	130.9	117.7	106.6	97.5	88.3	83.5	83.5	80.8
105°	145.2	143.2	134.5	123.3	109.8	99.5	90.7	83.9	78.8	77.2	77.2
107.5°	136.0	133.7	126.5	115.8	105.8	95.9	87.9	81.5	78.0	76.8	76.8

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

Scaled Data Report

REPORT NUMBER: P1046206
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	136.4	134.5	126.1	114.6	105.4	97.9	91.5	85.5	82.3	80.0	80.0
112.5°	167.9	159.5	144.8	127.7	117.4	107.4	97.5	89.1	85.1	84.3	83.5
115°	190.2	181.8	163.5	141.2	122.5	108.6	98.7	92.3	88.7	91.1	92.3
117.5°	190.9	175.8	140.8	130.1	116.6	105.0	98.3	94.3	91.9	94.3	94.3
120°	194.5	163.9	145.2	140.8	124.9	108.6	101.0	100.2	97.9	93.1	93.1
122.5°	289.2	261.4	231.5	193.7	160.7	145.2	131.7	108.2	97.1	91.9	91.5
125°	398.6	369.6	323.0	272.5	224.8	175.0	130.1	111.0	99.5	93.1	91.9
127.5°	423.7	401.0	339.7	279.3	211.6	163.1	130.5	114.2	102.6	95.9	94.7
130°	341.7	323.8	282.4	233.1	186.2	150.8	127.3	111.0	99.8	93.1	91.5
132.5°	303.9	287.2	246.6	201.7	165.1	137.6	116.6	100.6	89.5	84.7	84.7
135°	254.2	242.7	206.5	179.8	153.6	130.5	109.8	95.1	85.9	83.1	83.1
137.5°	218.0	208.8	183.0	161.9	141.6	121.7	103.8	91.9	85.5	82.7	82.3
140°	186.6	180.6	165.5	144.8	125.3	105.8	91.9	85.1	82.3	81.2	80.8
142.5°	162.3	157.9	144.4	122.9	103.8	91.9	86.7	84.7	81.9	79.2	78.8
145°	142.0	138.4	122.9	110.6	101.4	96.7	92.7	86.7	80.0	76.4	76.0
147.5°	159.5	154.0	140.4	126.1	111.4	100.2	91.5	83.5	77.2	74.8	74.8
150°	137.2	133.3	124.9	113.8	101.4	91.1	83.5	78.4	76.0	75.6	75.6
152.5°	106.6	104.6	102.2	96.7	88.7	81.9	77.2	74.8	75.6	77.2	77.6
155°	100.2	99.5	97.1	91.9	86.7	80.4	76.4	75.2	76.4	78.0	78.4
157.5°	95.5	95.1	93.1	88.3	83.5	79.6	76.8	76.0	77.2	78.4	78.4
160°	91.5	91.1	88.3	84.7	81.2	78.4	76.4	76.4	77.6	78.4	78.4
162.5°	89.1	88.7	86.7	83.9	81.5	80.0	79.6	79.6	80.0	80.4	80.4
165°	89.1	88.7	86.7	84.3	82.7	82.7	83.5	83.9	82.7	81.9	82.3
167.5°	92.7	91.9	89.5	87.5	87.1	87.5	88.7	88.7	87.9	86.7	86.3
170°	93.9	93.5	92.7	91.9	91.9	91.9	92.3	92.7	92.7	93.1	93.1
172.5°	96.3	96.3	95.9	95.9	96.3	95.9	95.9	96.7	97.5	97.9	98.3
175°	99.5	99.1	99.5	99.5	99.8	99.5	99.1	99.8	101.0	101.8	101.8
177.5°	101.8	101.8	101.4	101.0	101.0	101.0	101.0	101.4	101.4	101.4	101.0
180°	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2

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

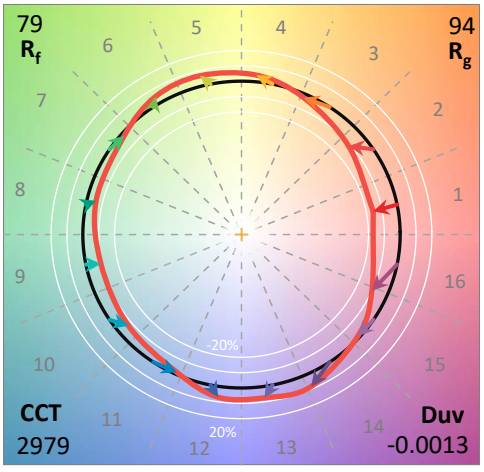
Test Information

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

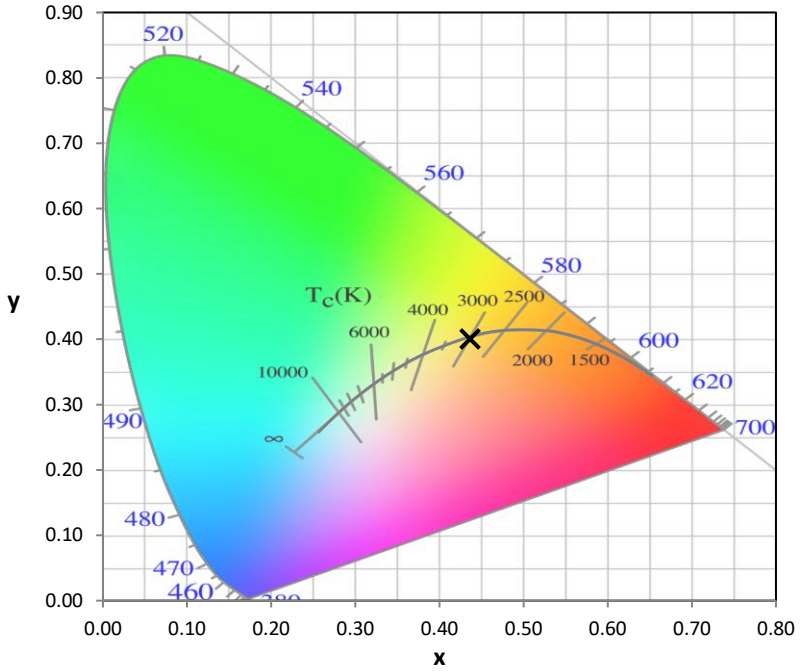
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

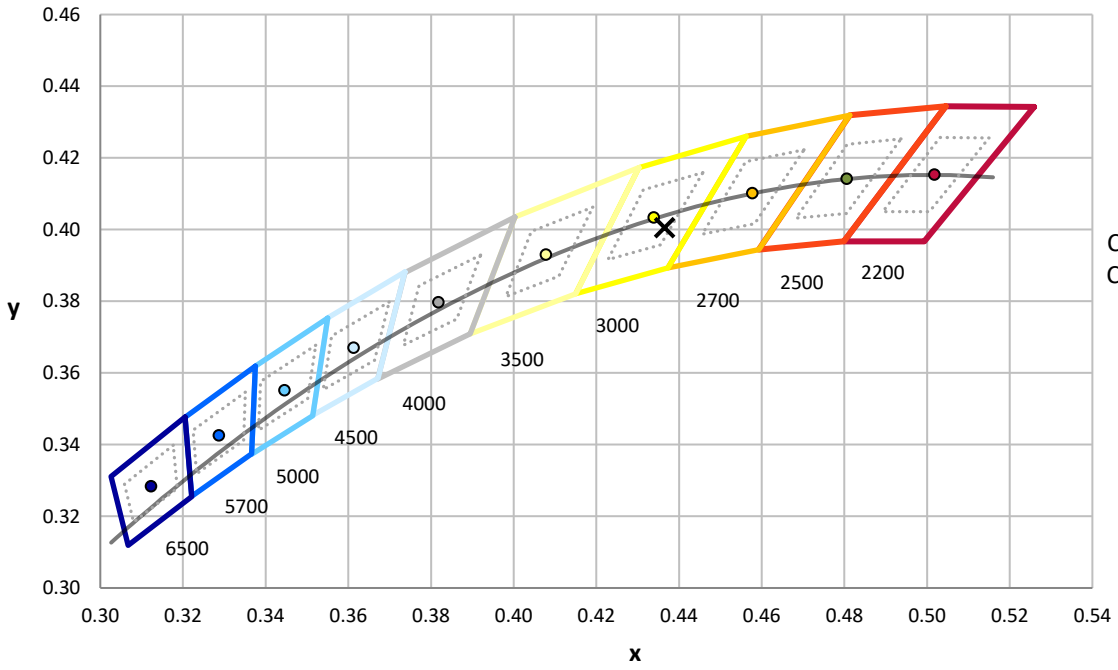
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

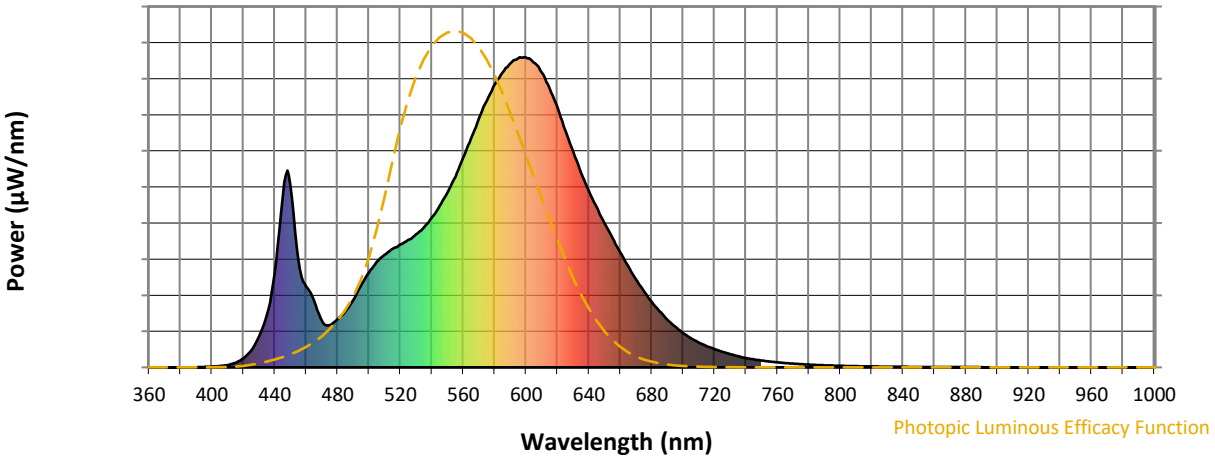


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

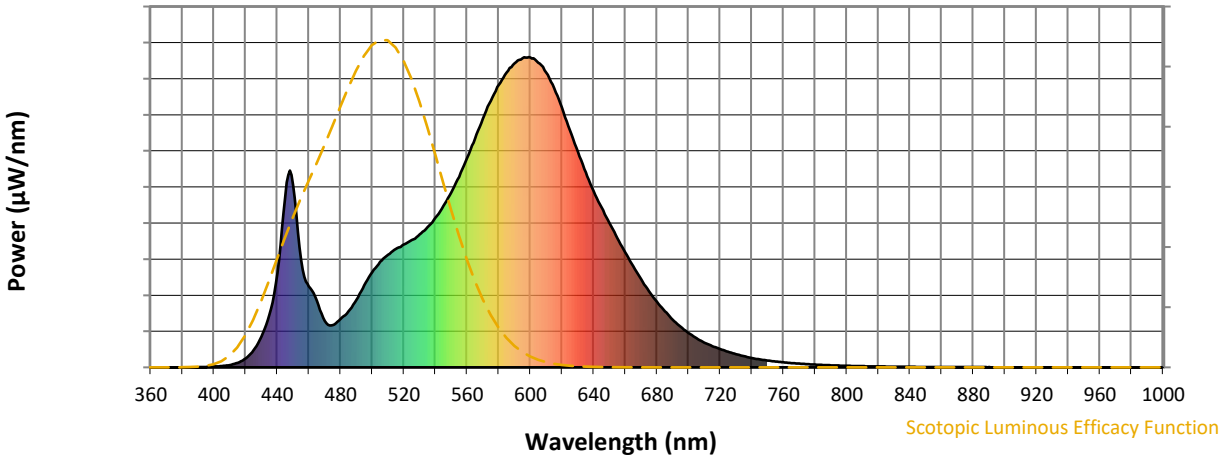


Photopic Lumens: NR

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

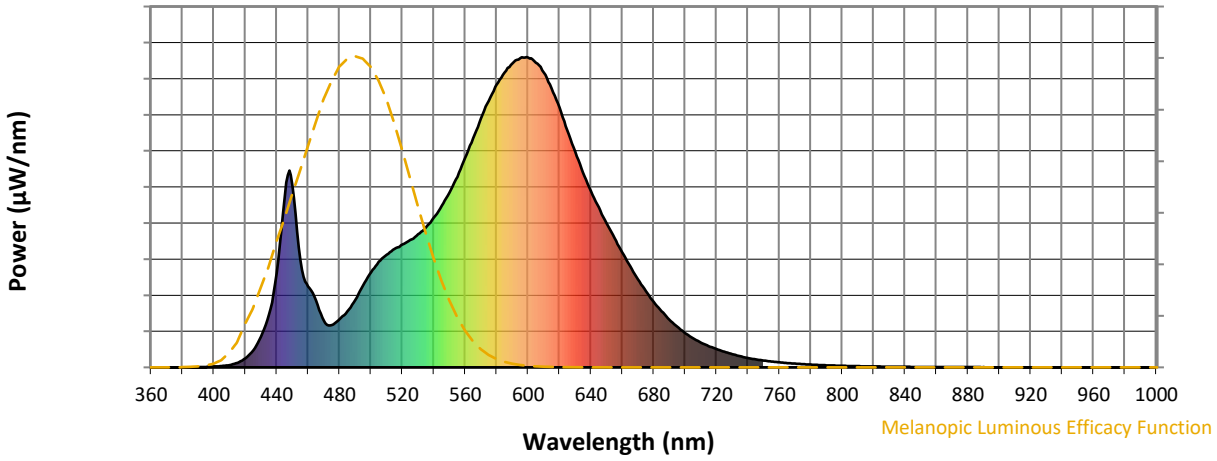


Scotopic Lumens: NR **S/P: 1.29**

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			

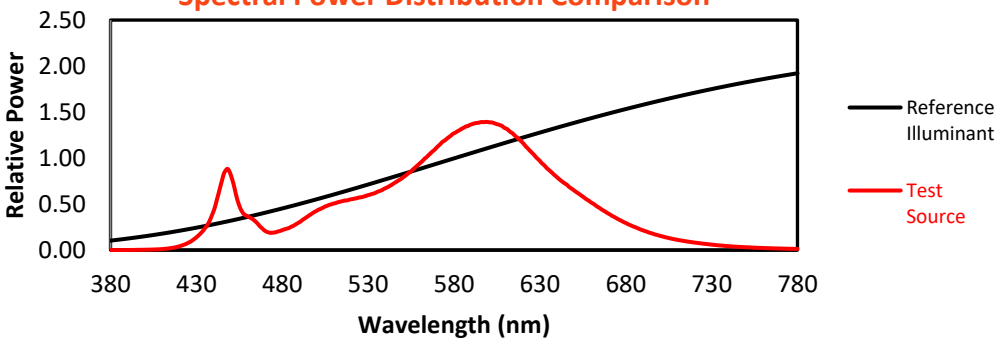
REPORT NUMBER: SP1-2501-332-9

TM-30-18

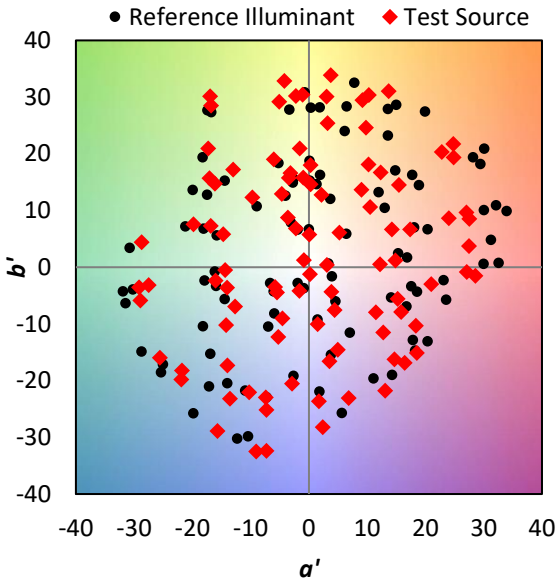
Summary

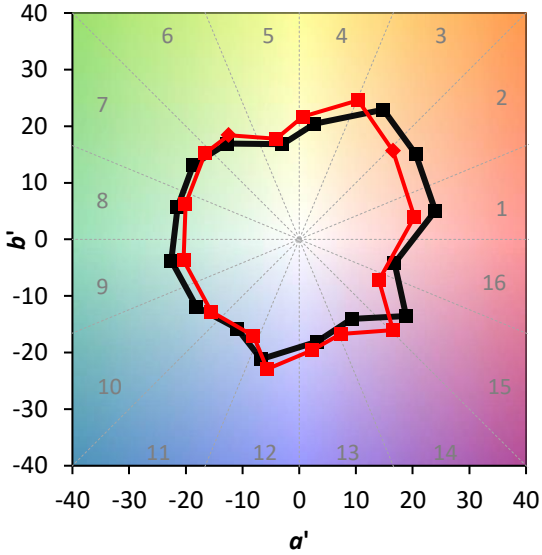
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

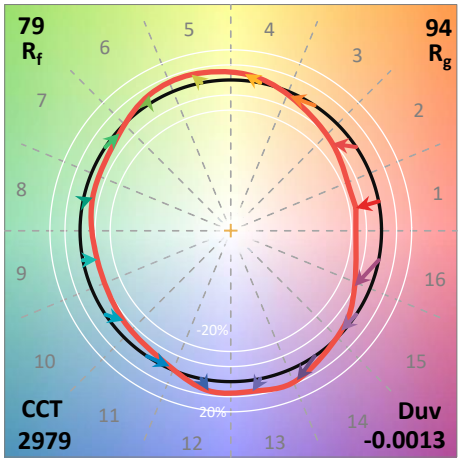
Spectral Power Distribution Comparison

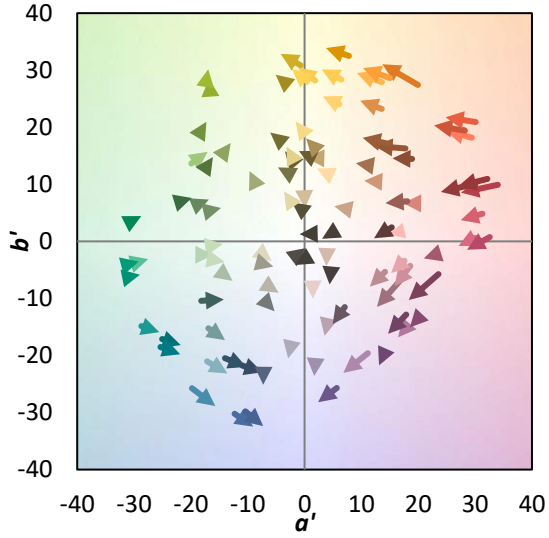


Color Vector Graphics







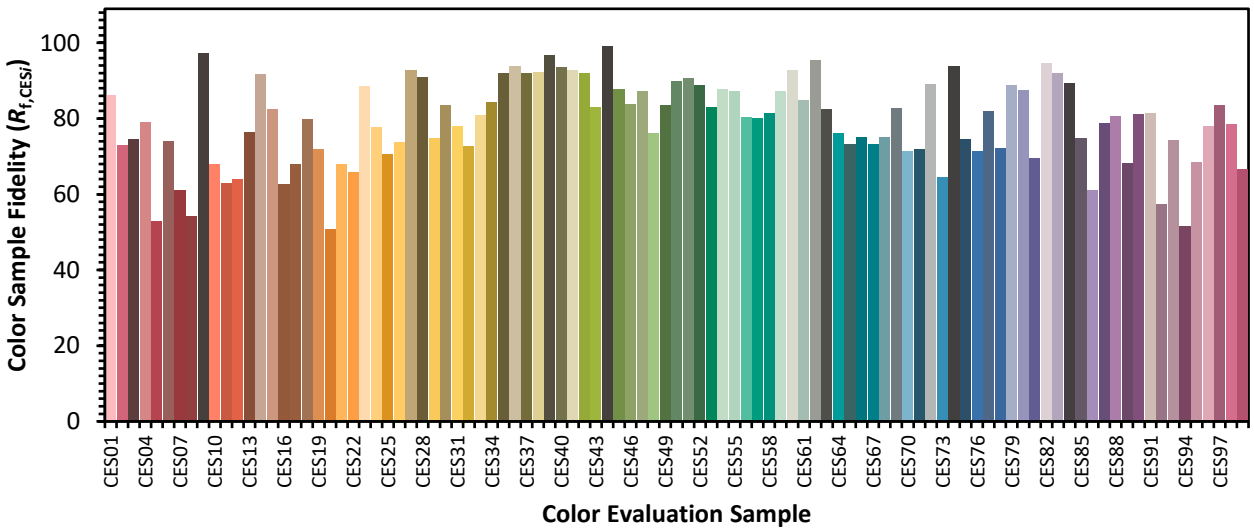


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

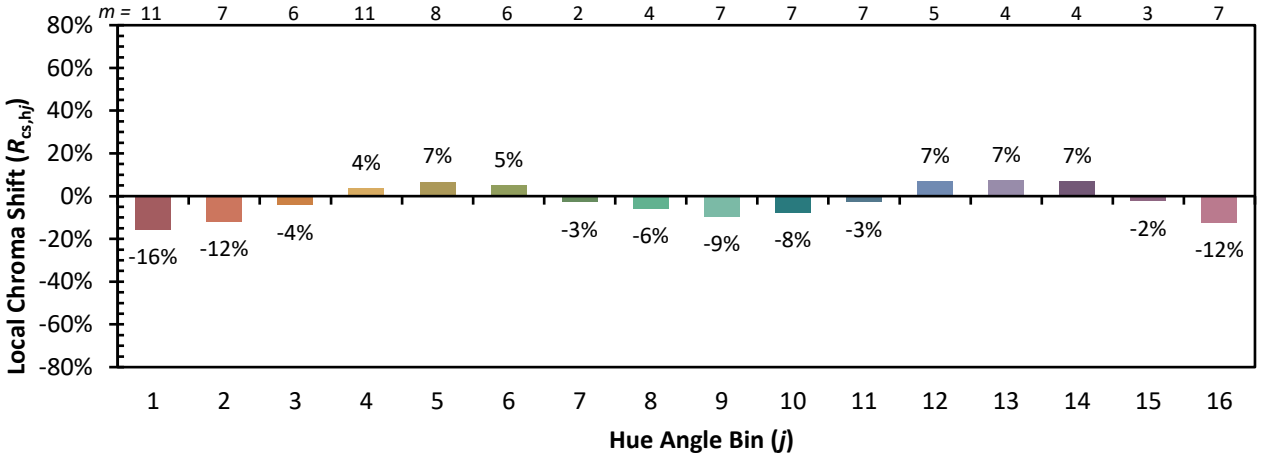
CES01 = 86	CES26 = 74	CES51 = 91	CES76 = 71
CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 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
CES25 = 72	CES50 = 90	CES75 = 75	

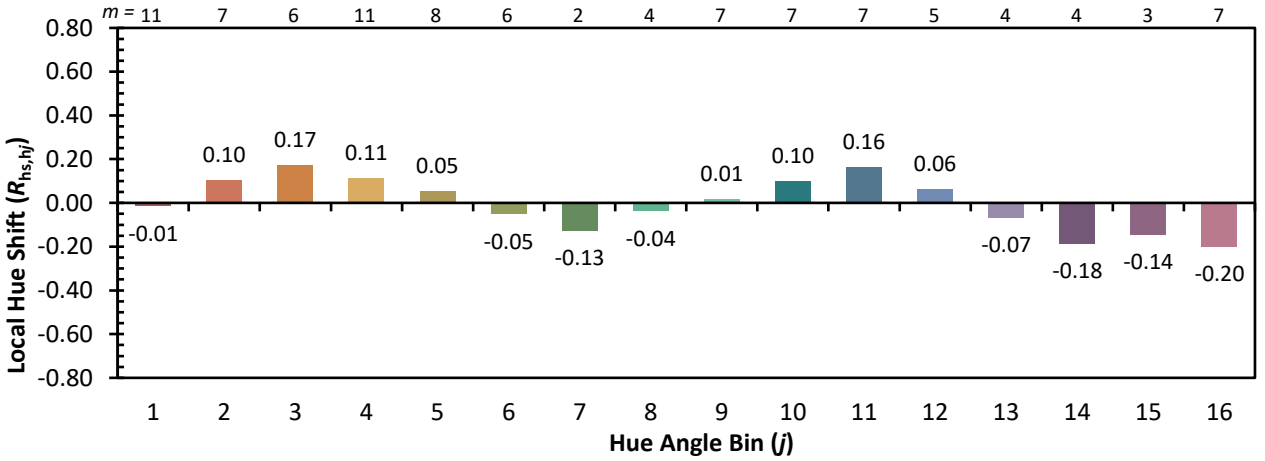


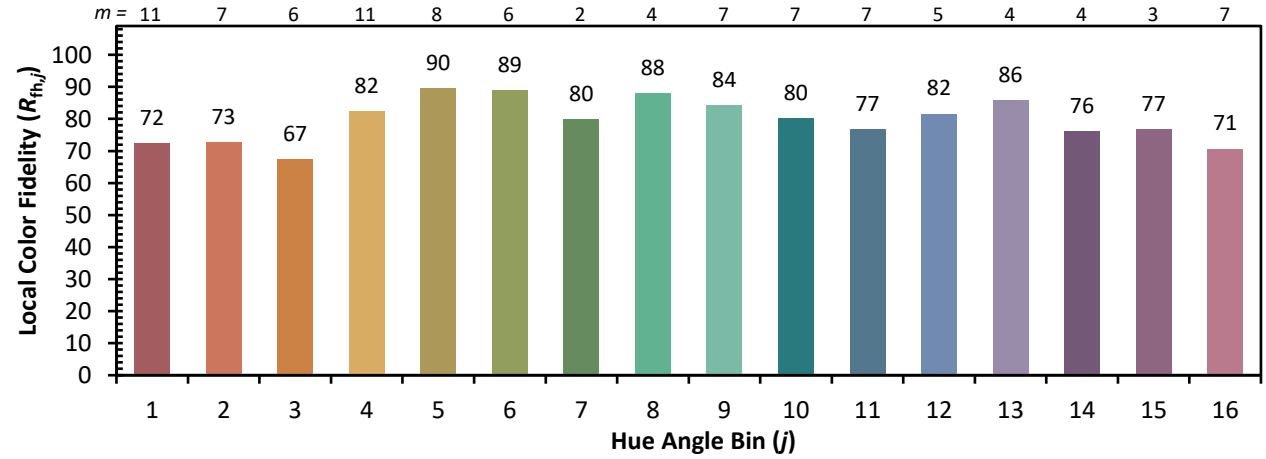
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Color Rendition by Hue-Angle Bin



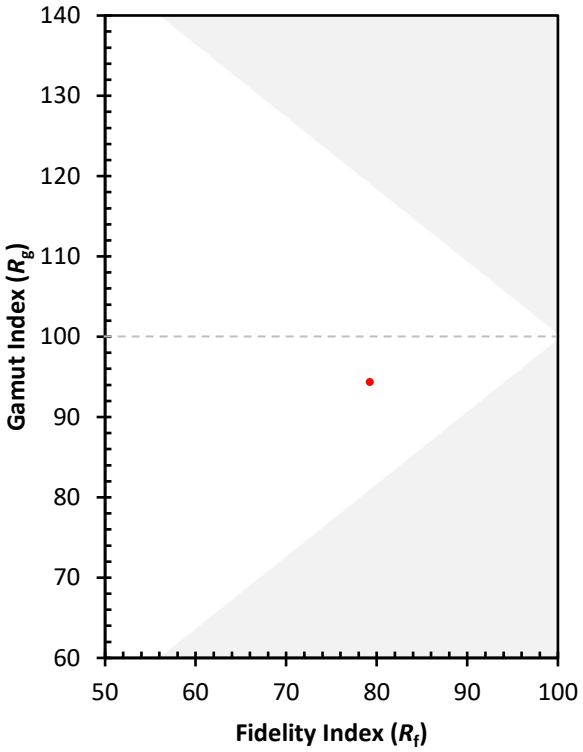


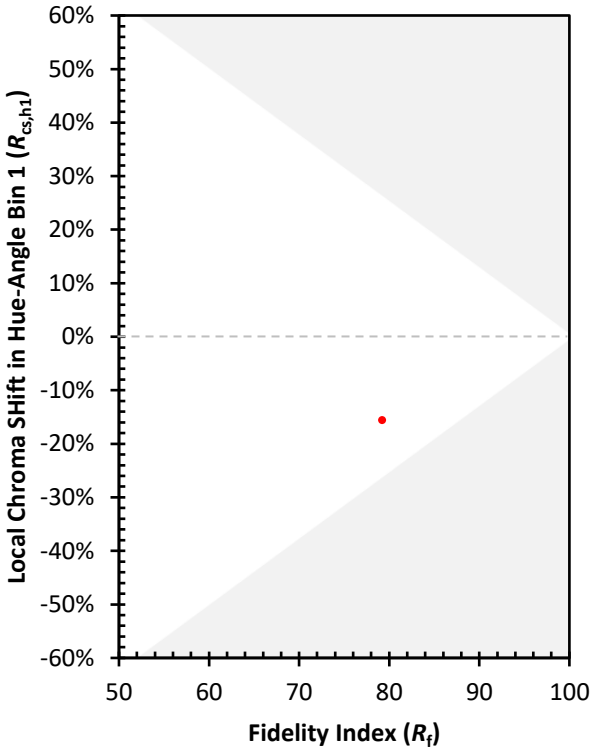


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Measure Comparisons





(END OF REPORT)