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: P981429

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

Issue Date: 04/15/2025

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981429
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-730-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7836.6 lumens
Efficiency:	N/A
Efficacy:	154.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - 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

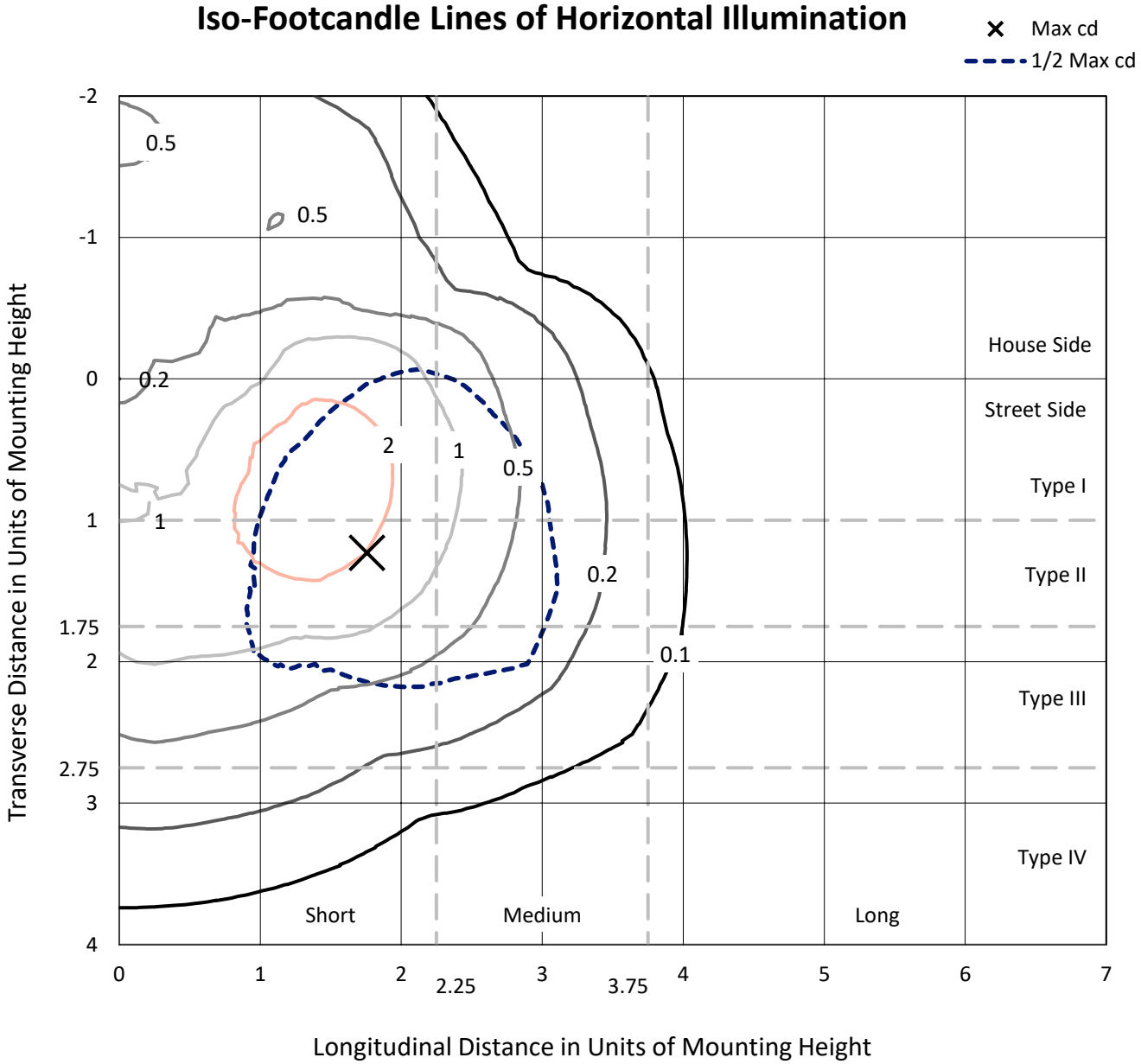


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Iso-Footcandle Lines of Horizontal Illumination



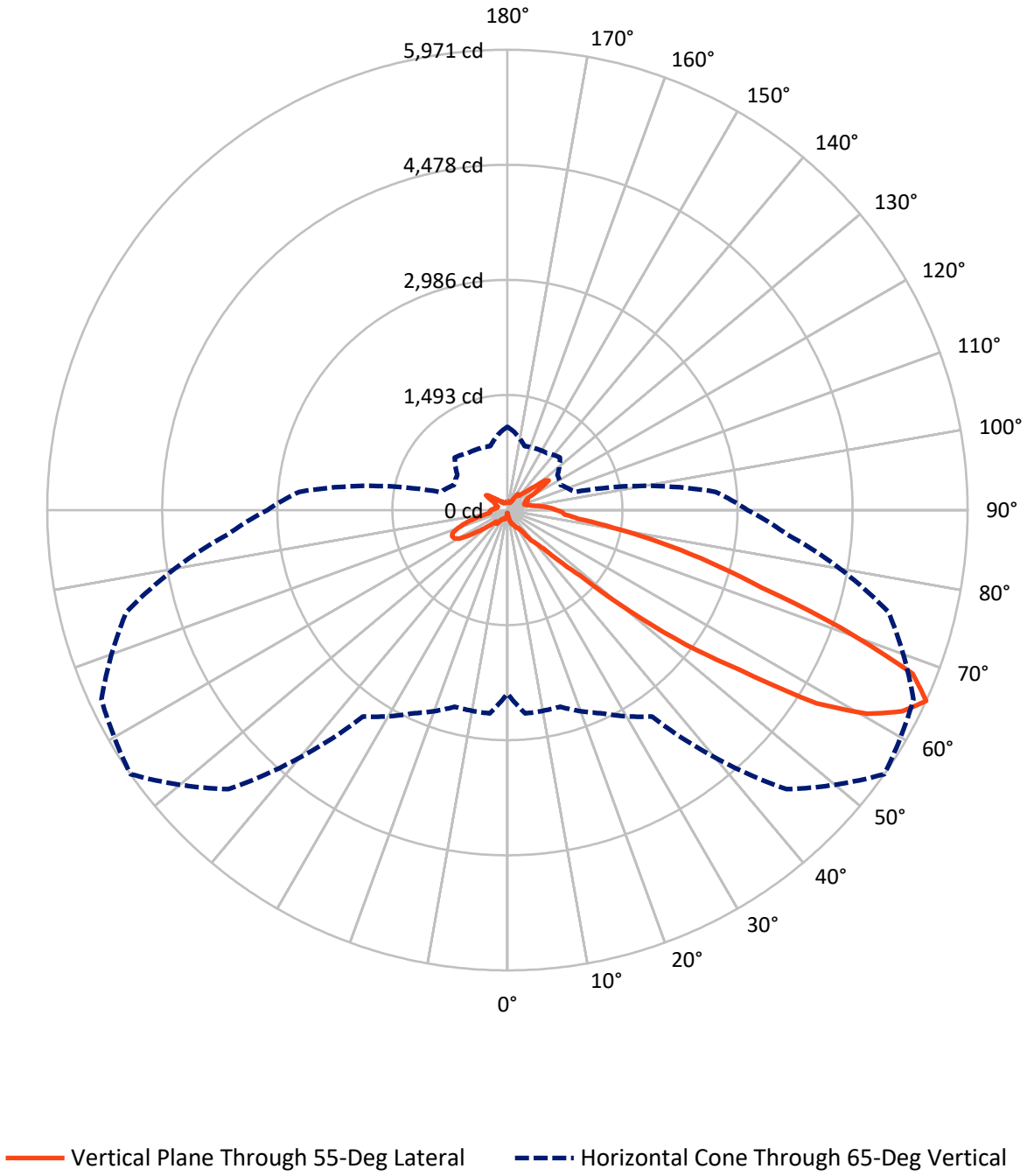
Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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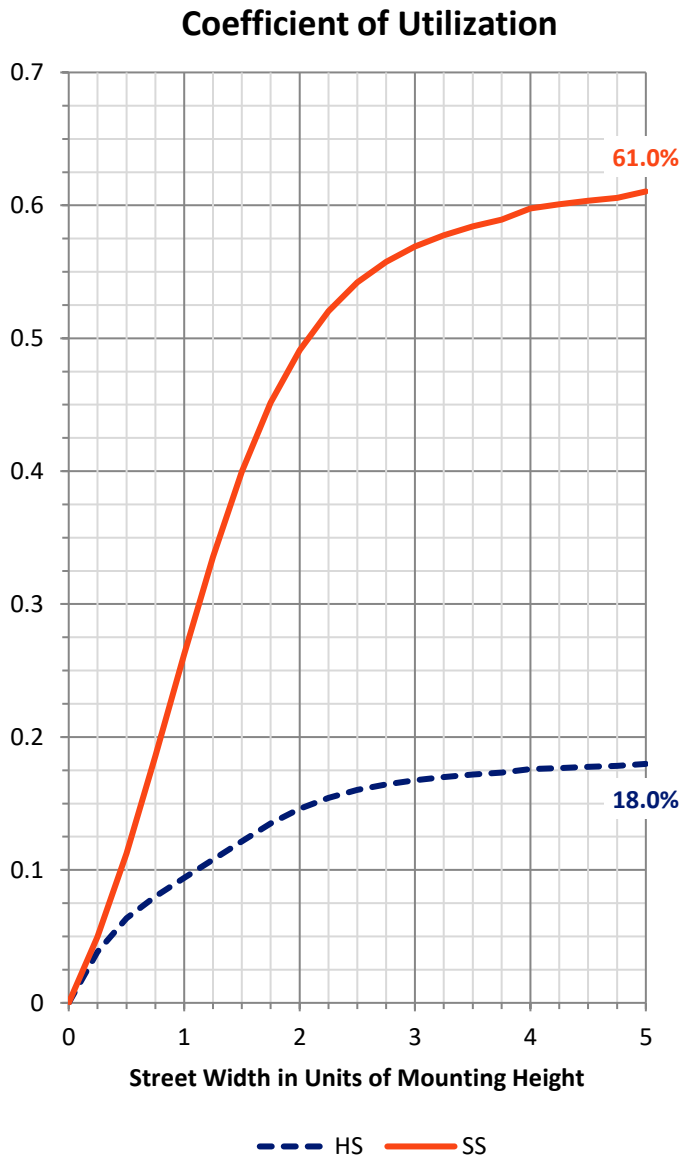
REPORT NUMBER: P981429
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1468.9	526.2	1995.2
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	4938.7	902.8	5841.5
	% Fixture	63.0	11.5	74.5
Total	Lumens	6407.6	1429.0	7836.6
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.1
10°-20°	39.8	0.5
20°-30°	81.8	1.0
30°-40°	171.4	2.2
40°-50°	452.4	5.8
50°-60°	1505.5	19.2
60°-70°	2428.5	31.0
70°-80°	1273.9	16.3
80°-90°	447.0	5.7
90°-100°	288.6	3.7
100°-110°	187.1	2.4
110°-120°	205.3	2.6
120°-130°	345.2	4.4
130°-140°	202.3	2.6
140°-150°	108.2	1.4
150°-160°	53.8	0.7
160°-170°	28.3	0.4
170°-180°	10.3	0.1
0°-90°	6407.6	81.8
0°-180°	7836.6	100.0



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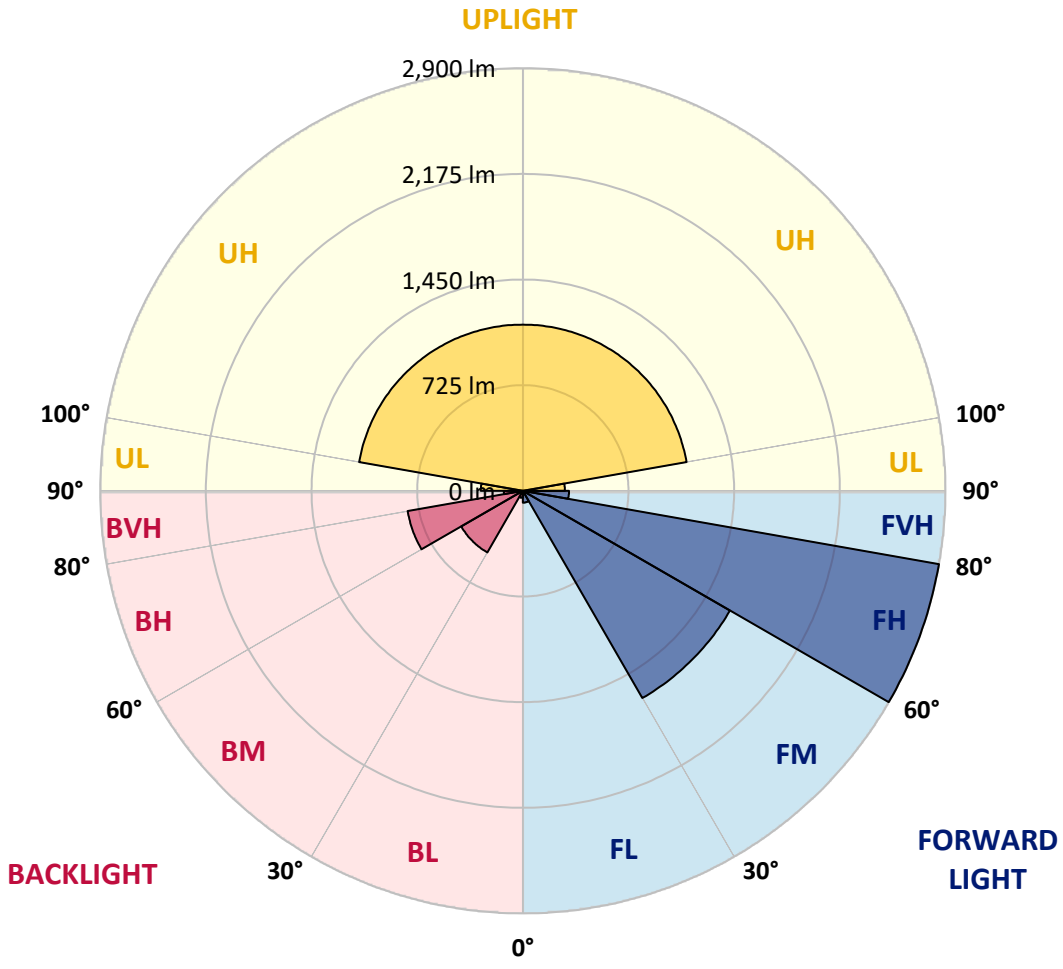
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	81.3	1.0			
FM	(30°-60°)	1641.2	20.9			
FH	(60°-80°)	2899.7	37.0			G2/5000
FVH	(80°-90°)	316.5	4.0			G3/500
BL	(0°-30°)	47.6	0.6	B0/110		
BM	(30°-60°)	488.1	6.2	B1/1000		
BH	(60°-80°)	802.7	10.2	B2/1000		G2/1000
BVH	(80°-90°)	130.5	1.7			G2/225
UL	(90°-100°)	288.6	3.7		U3/500	
UH	(100°-180°)	1140.4	14.6		U5	

BUG Rating: B2-U5-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2.5°	44.4	45.4	48.0	49.0	49.5	48.5	46.4	48.5	48.5	48.5	48.0
5°	64.5	64.5	64.5	66.1	66.6	67.6	66.6	64.0	61.9	59.9	59.3
7.5°	90.3	91.3	91.9	91.9	91.9	93.9	96.0	91.3	87.2	83.1	82.1
10°	129.5	126.9	124.4	125.4	123.3	119.2	121.3	117.7	108.4	105.3	105.3
12.5°	165.6	165.1	166.2	160.5	157.4	148.6	149.7	147.6	140.9	130.0	126.4
15°	185.8	187.3	186.8	188.9	184.2	171.8	168.7	169.8	163.6	153.3	148.1
17.5°	196.1	196.1	196.6	199.2	199.2	187.3	182.2	179.6	174.4	165.6	158.9
20°	201.3	201.3	200.7	204.4	211.6	204.9	197.6	193.5	188.9	174.9	164.6
22.5°	215.7	214.7	213.1	214.2	225.0	222.9	217.3	211.1	204.4	183.2	170.3
25°	230.7	231.2	226.5	228.1	238.9	242.0	237.4	231.2	223.4	191.5	178.5
27.5°	247.7	247.2	241.0	243.1	248.7	260.1	254.4	251.3	238.4	198.2	185.8
30°	263.2	260.6	254.4	259.6	259.6	277.6	272.5	274.0	258.0	210.5	197.1
32.5°	274.5	274.0	270.4	277.1	273.5	296.7	295.2	308.1	284.3	234.8	222.4
35°	300.3	300.9	315.8	328.7	322.5	356.6	363.8	380.3	351.4	295.2	281.8
37.5°	486.1	479.9	459.3	435.5	438.6	502.1	493.3	502.1	457.7	376.7	355.6
40°	511.9	513.5	489.7	471.7	469.1	550.1	563.5	634.7	541.8	451.5	409.7
42.5°	498.5	503.7	568.7	591.9	571.3	674.5	678.6	815.9	632.1	556.8	501.6
45°	632.1	633.2	646.6	661.6	664.1	921.1	935.6	1087.3	804.0	701.3	607.9
47.5°	719.4	727.6	746.2	848.4	902.6	1177.6	1274.1	1515.1	1070.8	956.2	772.0
50°	1017.1	1039.8	1131.7	1219.4	1304.0	1746.3	2070.9	2358.3	1608.5	1401.6	1121.9
52.5°	1239.5	1321.1	1423.7	1635.3	1724.6	2386.7	2896.5	3074.6	2253.0	1899.5	1528.5
55°	1432.5	1582.2	1693.1	2039.4	2209.2	3111.7	3655.6	3681.4	3023.5	2318.6	1959.9
57.5°	1829.9	2048.2	2120.4	2416.6	2653.0	3975.0	4730.5	4603.6	3809.9	2795.9	2420.2
60°	2204.0	2455.3	2428.5	2701.5	3014.2	4717.6	5366.8	5302.3	4546.8	3247.9	2822.7
62.5°	2325.8	2580.7	2558.0	2844.9	3265.5	5063.9	5748.7	5641.8	4981.8	3530.7	3025.0
65°	2378.9	2647.8	2641.6	2909.9	3268.6	5119.1	5971.1	5812.1	5118.6	3644.8	3113.8
67.5°	2333.5	2589.5	2586.9	2834.1	3030.2	4718.6	5670.2	5435.9	4781.6	3376.4	2922.3
70°	2013.6	2191.6	2180.8	2332.5	2435.2	3750.6	4601.5	4424.5	3858.9	2774.7	2420.7
72.5°	1642.0	1694.7	1717.4	1804.1	1831.4	2744.8	3450.7	3309.9	2877.4	2078.1	1835.5
75°	1311.3	1313.8	1337.6	1368.0	1358.7	2019.3	2718.0	2630.8	2121.9	1550.2	1392.3
77.5°	868.0	861.3	965.5	977.9	918.5	1286.5	2029.6	1968.2	1518.7	1129.6	1018.1
80°	498.0	500.0	571.3	616.1	592.4	817.4	1390.7	1377.3	1042.9	790.6	699.2
82.5°	371.5	389.1	427.3	451.0	441.7	614.6	925.3	950.5	741.0	568.7	519.7
85°	413.9	423.7	427.8	429.3	418.0	574.9	747.2	745.7	622.9	477.3	460.8
87.5°	403.0	411.3	414.9	417.0	405.6	549.6	705.9	695.6	597.6	458.8	434.5
90°	339.0	358.1	357.6	375.7	362.8	483.0	619.2	612.5	542.4	422.6	394.3
92.5°	284.3	295.2	302.4	327.2	315.8	425.2	556.8	541.3	485.6	384.4	354.0
95°	265.8	275.6	281.2	295.2	281.2	367.4	469.1	455.1	403.0	320.5	291.0
97.5°	224.0	227.1	232.2	241.5	232.2	297.8	379.8	366.4	323.6	261.6	241.0
100°	189.9	193.0	199.7	206.4	201.8	254.9	317.9	310.7	278.1	227.6	213.6
102.5°	179.6	181.6	190.4	194.5	188.9	234.3	280.7	280.7	251.8	210.0	198.7
105°	171.3	173.9	180.6	182.2	178.0	215.7	259.1	256.5	233.8	196.6	185.8
107.5°	163.1	166.2	171.8	169.3	167.2	198.7	232.7	236.9	217.3	186.8	179.6
110°	171.8	172.9	177.5	173.4	177.0	197.6	233.8	234.8	229.1	203.8	196.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	233.8	228.1	237.9	222.4	234.3	248.7	*271.4*	279.7	273.0	244.1	237.4
115°	256.0	260.1	270.4	254.9	262.7	280.2	*291.0*	292.6	284.9	266.3	263.7
117.5°	199.7	220.3	209.5	218.8	221.9	246.2	*270.9*	278.1	270.9	245.1	261.1
120°	255.4	272.0	234.8	223.4	238.9	281.2	*303.9*	310.1	290.5	291.0	300.9
122.5°	423.7	433.0	456.2	468.0	450.0	475.8	*483.5*	489.2	459.3	424.2	406.6
125°	643.0	636.3	633.2	630.1	625.4	652.8	*657.9*	643.5	613.6	564.5	537.2
127.5°	581.6	587.3	596.0	595.0	590.9	612.0	*624.9*	616.1	607.9	560.9	544.9
130°	418.5	421.1	436.6	464.4	461.3	478.4	*479.9*	488.7	502.6	482.0	465.5
132.5°	346.8	349.4	372.6	385.0	386.0	386.5	*379.3*	399.4	413.9	393.2	379.3
135°	302.4	302.4	307.6	302.9	304.5	317.9	*324.1*	342.1	345.7	335.9	322.0
137.5°	267.3	268.3	257.5	248.7	250.3	274.5	*288.5*	302.4	295.2	275.0	265.2
140°	232.7	227.1	212.1	209.5	220.9	244.1	*252.3*	262.1	264.2	238.4	225.5
142.5°	171.3	169.3	176.0	189.9	196.1	234.8	*228.6*	247.2	248.2	204.9	183.7
145°	191.5	190.9	190.4	193.0	207.4	263.7	*248.7*	272.5	283.8	217.8	178.0
147.5°	216.2	215.7	211.1	205.4	227.1	241.0	*227.6*	248.2	260.6	216.2	172.4
150°	167.2	168.2	165.6	164.1	187.8	185.3	*182.2*	187.8	193.0	179.1	156.9
152.5°	130.0	128.0	126.4	126.9	146.6	143.5	*143.5*	147.6	148.1	142.9	131.6
155°	117.1	116.6	115.6	117.7	129.5	126.4	*123.8*	122.8	120.2	118.7	117.1
157.5°	109.9	108.9	108.9	112.0	120.2	115.1	*114.0*	113.0	111.5	111.5	112.0
160°	102.7	102.2	102.2	106.8	109.4	104.8	*103.7*	103.2	102.7	103.7	104.8
162.5°	98.6	98.6	98.6	101.7	101.7	98.6	*97.5*	97.0	97.5	101.1	101.7
165°	97.0	96.5	97.0	98.6	98.0	96.0	*95.5*	95.5	97.0	100.1	100.6
167.5°	99.6	99.6	99.6	100.1	99.6	97.5	*97.0*	97.0	98.6	101.1	101.1
170°	103.7	103.2	103.2	103.2	102.7	100.6	*99.6*	100.1	100.6	102.2	102.2
172.5°	107.3	107.3	106.8	106.3	105.3	104.2	*103.2*	103.2	103.2	103.7	103.7
175°	111.5	111.5	111.5	110.9	110.9	109.4	*108.9*	108.4	107.9	107.3	106.8
177.5°	116.1	115.6	115.6	115.6	115.6	114.0	*113.0*	112.5	111.5	110.9	110.9
180°	114.0	114.0	114.0	114.0	114.0	114.0	*114.0*	114.0	114.0	114.0	114.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2.5°	48.0	46.4	43.9	39.2	37.7	36.1	34.6	31.5	29.9	28.9
5°	58.8	56.8	56.2	53.7	50.1	47.0	46.4	45.4	44.9	43.3
7.5°	84.1	85.1	87.7	83.1	72.8	67.1	68.6	74.3	72.2	71.7
10°	105.8	112.5	117.7	105.8	87.2	75.3	75.9	87.2	88.2	90.3
12.5°	123.8	129.5	128.5	113.5	96.0	84.6	81.0	87.2	92.9	93.4
15°	143.5	133.7	130.0	117.7	105.3	96.5	95.0	96.5	96.5	95.5
17.5°	151.7	134.7	124.4	114.0	105.3	99.1	97.0	94.4	90.8	90.8
20°	153.8	138.8	126.9	116.1	107.3	100.6	95.0	91.9	90.8	90.8
22.5°	160.0	146.6	134.2	121.3	112.0	103.2	96.5	93.4	93.4	93.9
25°	168.7	156.4	140.9	127.5	117.7	108.4	99.6	95.0	94.4	95.0
27.5°	179.6	166.7	149.7	135.2	123.8	113.5	102.7	97.0	95.0	95.0
30°	192.0	177.0	157.9	141.9	129.5	120.2	106.8	99.1	96.5	95.5
32.5°	214.2	197.1	168.2	150.7	136.8	126.4	113.0	103.2	98.0	97.0
35°	268.9	242.5	204.9	172.9	151.7	133.7	117.7	105.8	99.1	98.0
37.5°	328.2	288.5	252.9	217.3	186.3	156.9	126.4	109.9	101.7	100.1
40°	365.4	313.2	281.8	228.6	224.5	200.2	155.3	121.3	106.8	104.8
42.5°	441.7	363.8	313.8	201.8	219.3	224.5	196.1	152.2	120.8	117.1
45°	532.0	427.8	351.9	215.7	226.0	219.8	200.7	176.5	150.7	143.5
47.5°	689.4	488.2	365.4	250.3	258.5	241.5	213.1	187.8	168.7	166.2
50°	994.9	665.7	411.3	307.6	332.3	284.9	248.2	228.6	202.8	199.7
52.5°	1388.1	801.4	461.9	397.9	454.1	395.3	335.9	296.2	290.5	292.6
55°	1814.4	843.2	528.4	491.8	590.3	535.1	467.0	428.8	466.5	478.4
57.5°	2237.0	906.2	624.9	613.6	739.0	654.9	601.2	617.7	774.6	812.2
60°	2569.9	959.8	706.5	730.7	886.0	794.7	772.0	796.2	1065.6	1165.7
62.5°	2700.4	935.6	748.8	780.2	955.2	892.7	885.0	908.2	1135.3	1233.8
65°	*2710.2*	*898.4*	*765.3*	*793.7*	*966.0*	*899.5*	*878.3*	*858.7*	*1016.6*	*1079.0*
67.5°	2507.9	824.1	745.2	774.6	918.0	829.8	785.9	741.5	822.6	857.1
70°	2021.8	730.7	682.2	699.2	772.0	690.5	630.6	600.2	629.1	626.5
72.5°	1531.6	643.5	613.1	596.0	630.6	564.5	498.5	469.1	494.9	488.2
75°	1169.9	574.4	546.0	489.2	522.7	433.5	360.7	340.6	353.0	348.3
77.5°	844.2	460.3	422.6	360.2	403.5	315.3	242.0	227.6	230.7	220.9
80°	607.9	343.2	306.5	262.1	296.7	225.5	179.6	176.5	178.0	167.7
82.5°	477.3	275.0	250.8	227.1	237.9	203.8	172.9	169.8	171.3	160.0
85°	444.8	269.4	244.1	228.6	232.2	200.7	167.7	166.7	169.3	156.9
87.5°	419.5	266.8	246.7	224.5	215.7	184.2	155.3	160.0	167.2	154.3
90°	370.0	248.7	231.2	211.1	201.8	172.9	155.3	162.0	161.5	152.2
92.5°	326.1	221.9	208.0	196.6	194.5	176.0	162.6	168.7	170.8	161.5
95°	267.3	187.3	180.6	177.0	180.1	162.0	150.7	153.8	151.7	146.6
97.5°	227.6	170.8	166.2	161.0	157.9	145.0	135.2	139.3	141.4	136.8
100°	205.9	162.6	158.9	153.3	152.7	144.0	138.8	147.1	153.3	150.7
102.5°	192.5	154.3	149.7	144.5	142.9	135.7	131.6	136.8	142.4	137.3
105°	182.7	146.6	139.3	134.7	132.1	126.9	121.8	123.8	130.0	127.5
107.5°	173.4	146.0	134.7	131.1	131.1	124.4	117.1	117.7	120.8	120.2
110°	187.8	162.0	141.4	136.2	134.7	132.6	127.5	122.3	118.2	118.2

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

Scaled Data Report

REPORT NUMBER: P981429
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	225.0	198.7	177.5	161.0	154.3	146.6	135.7	128.0	122.3	120.8
115°	241.5	213.1	193.0	174.9	159.5	144.5	135.2	129.5	126.4	129.5
117.5°	227.6	188.4	185.8	167.2	152.7	140.9	138.3	129.0	134.2	134.2
120°	256.0	218.8	213.1	186.3	166.2	151.2	149.7	148.1	142.4	139.8
122.5°	374.1	325.6	302.4	262.7	228.1	197.1	179.6	155.3	138.3	134.7
125°	508.3	444.3	388.6	335.9	283.8	228.6	182.2	146.0	128.5	125.9
127.5°	509.8	444.8	383.4	319.4	262.7	204.9	163.6	138.3	125.9	125.4
130°	448.4	391.7	324.1	260.6	214.7	176.5	146.6	125.9	117.1	114.6
132.5°	357.1	306.5	263.2	224.0	188.9	156.4	129.5	115.1	109.9	109.4
135°	300.3	256.5	226.0	197.1	169.8	140.9	116.1	108.9	106.3	105.3
137.5°	245.1	218.8	200.2	177.0	150.7	126.9	110.4	107.3	106.3	104.2
140°	212.6	195.1	174.9	149.1	129.0	109.4	100.6	103.2	105.8	105.3
142.5°	173.4	160.5	145.5	128.5	114.6	105.8	102.2	103.7	103.7	104.2
145°	164.6	147.6	139.3	129.0	119.7	113.0	104.2	101.1	100.6	100.6
147.5°	152.7	146.0	140.9	133.7	119.7	107.3	97.5	96.0	98.0	97.5
150°	142.9	138.3	132.1	120.8	106.8	98.6	93.4	93.9	97.5	98.0
152.5°	121.3	118.7	114.6	107.3	97.5	93.4	90.8	92.9	95.5	96.0
155°	107.9	106.3	105.3	100.6	94.4	91.9	90.8	92.4	95.0	95.5
157.5°	106.8	103.2	101.7	98.6	93.9	91.3	91.3	92.9	94.4	95.0
160°	103.7	99.1	98.6	95.5	94.4	92.9	93.9	94.4	96.0	95.5
162.5°	101.1	98.0	97.5	95.5	96.5	98.0	98.0	98.6	99.6	99.1
165°	100.1	97.5	97.0	97.0	100.1	102.7	103.2	102.7	102.7	102.7
167.5°	101.1	99.6	99.1	100.1	102.7	105.8	106.3	105.3	104.2	103.7
170°	102.7	102.2	102.7	103.2	104.8	106.8	106.8	105.8	105.8	105.8
172.5°	104.2	105.3	105.8	105.8	107.3	108.4	108.9	108.4	108.4	108.4
175°	107.3	107.9	107.9	108.4	109.9	110.9	112.0	112.0	112.0	112.0
177.5°	110.9	110.9	110.9	111.5	112.0	113.5	114.0	115.1	115.6	115.6
180°	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0

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

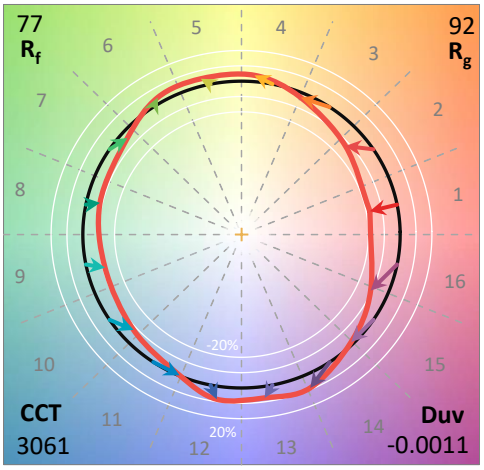
Test Information

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

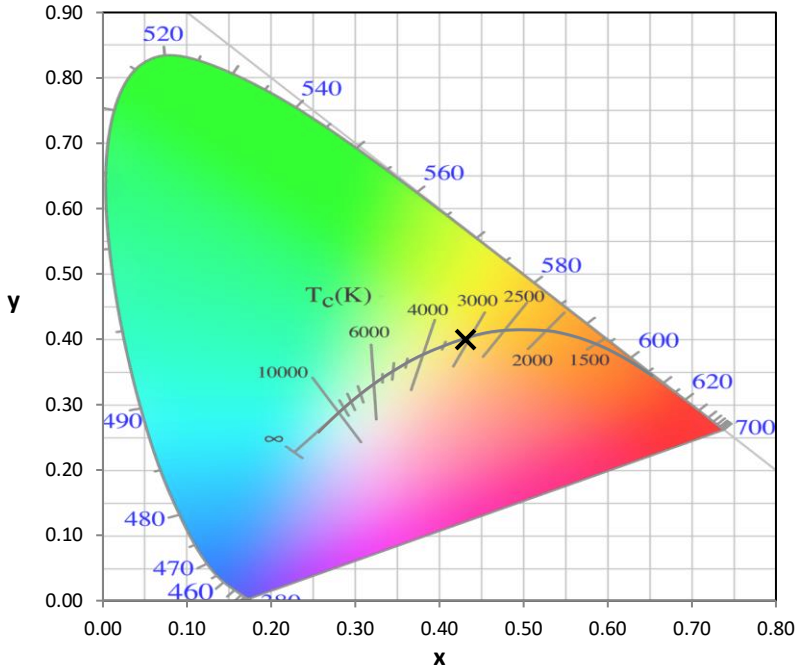
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

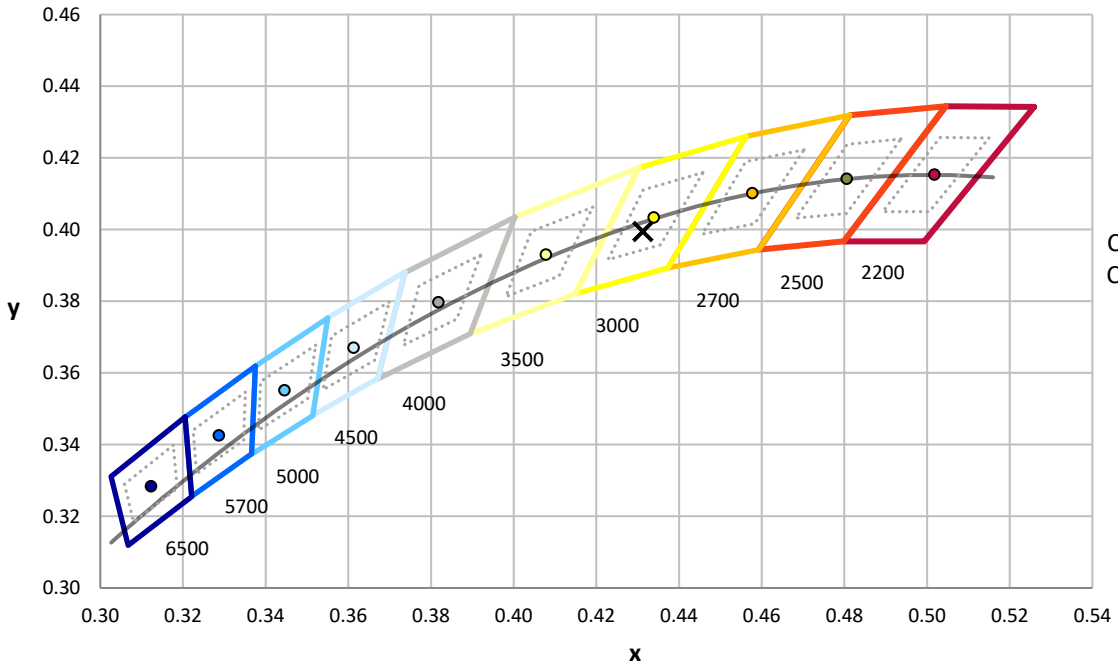
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

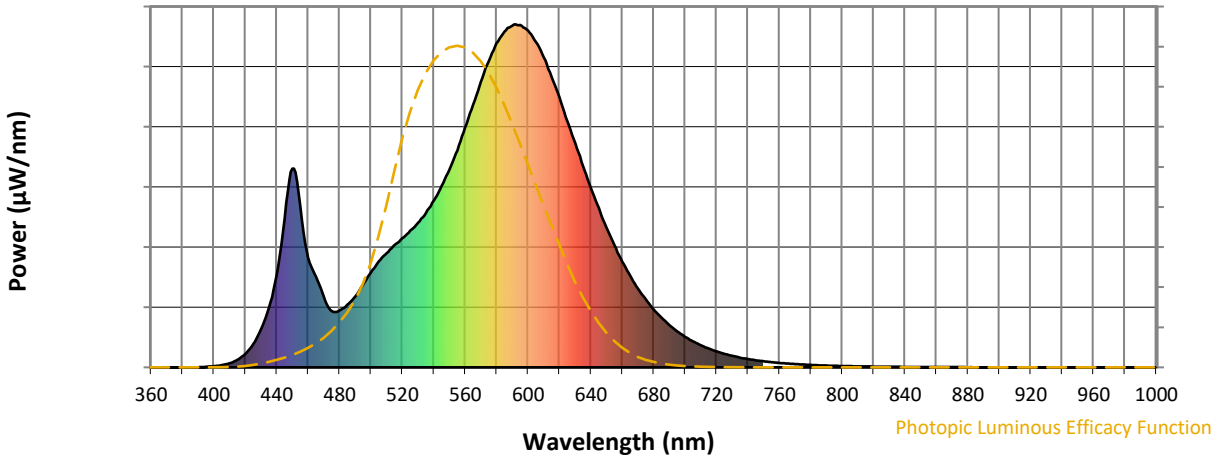


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

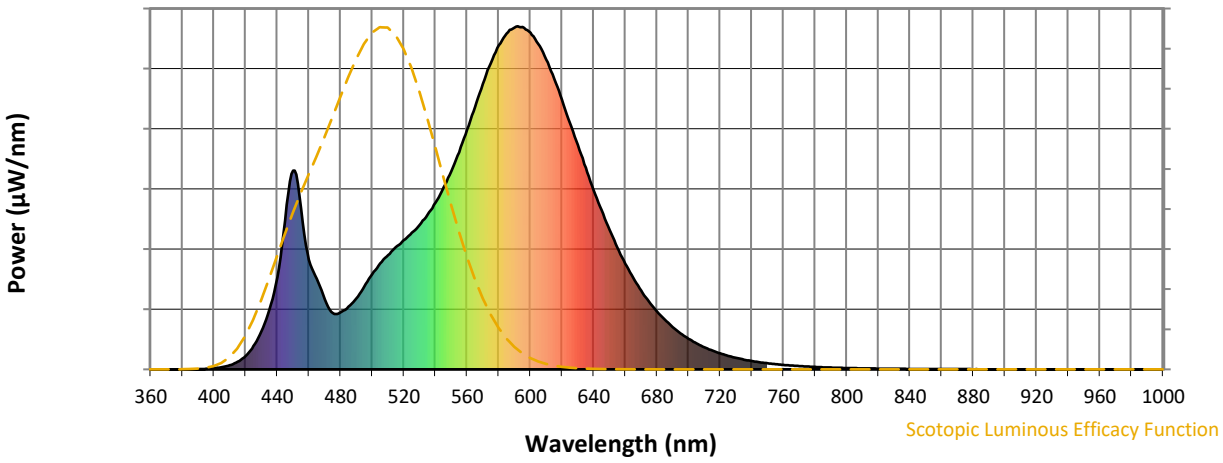


Photopic Lumens: NR

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

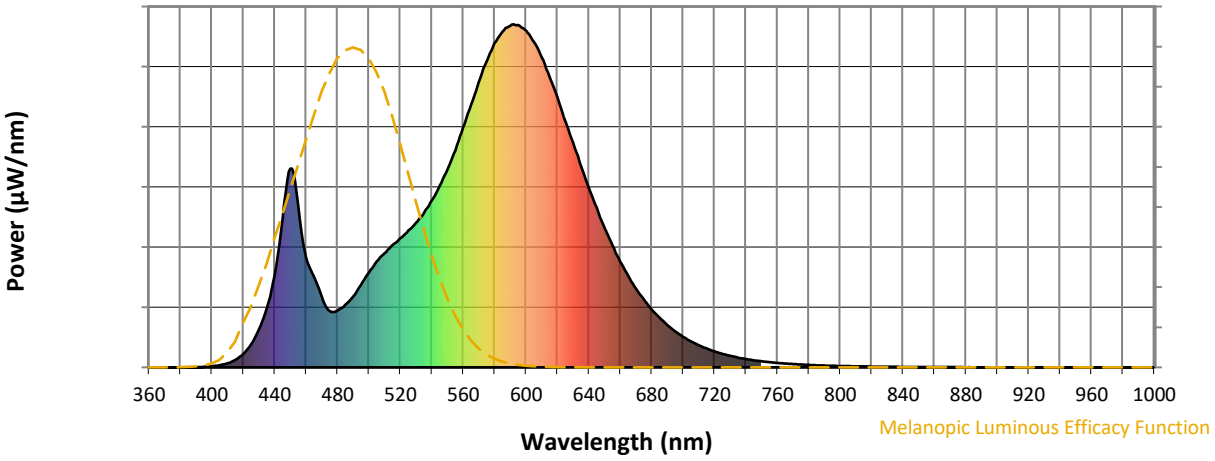


Scotopic Lumens: NR **S/P: 1.29**

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			

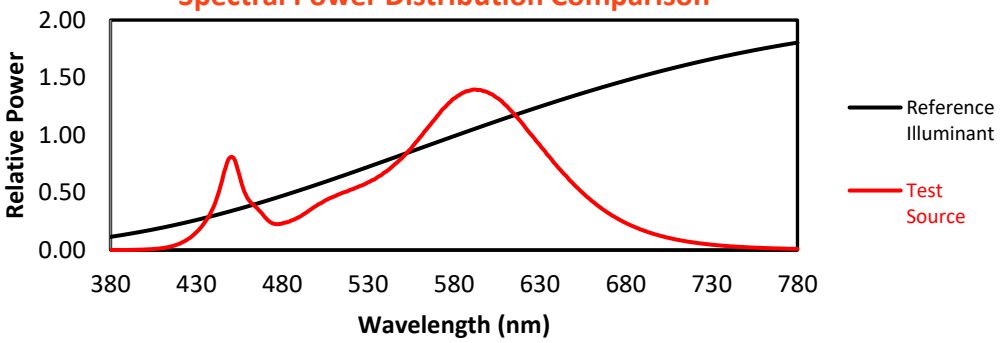
REPORT NUMBER: SP1-2501-332-4

TM-30-18

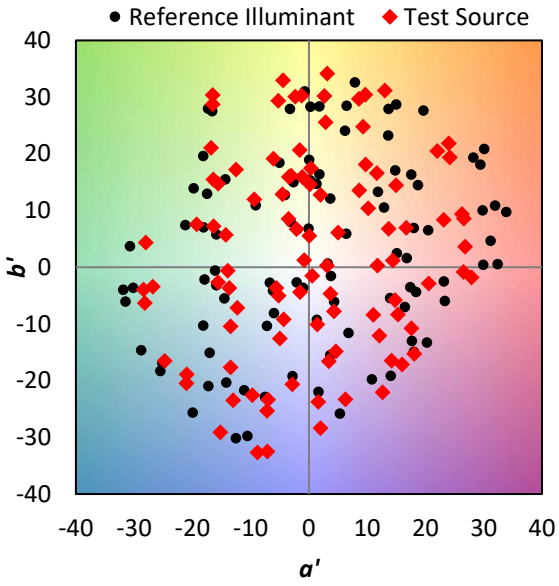
Summary

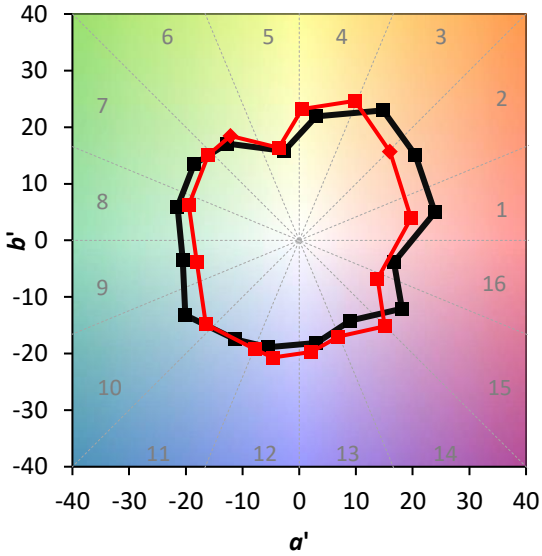
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

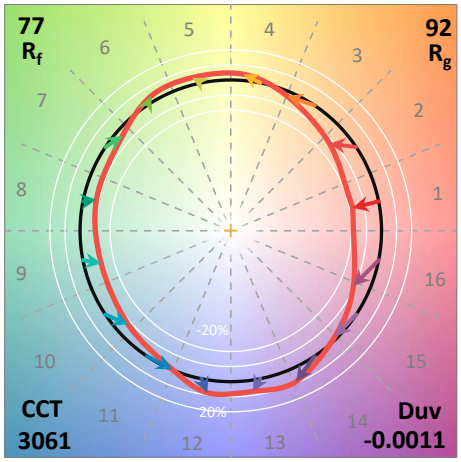
Spectral Power Distribution Comparison

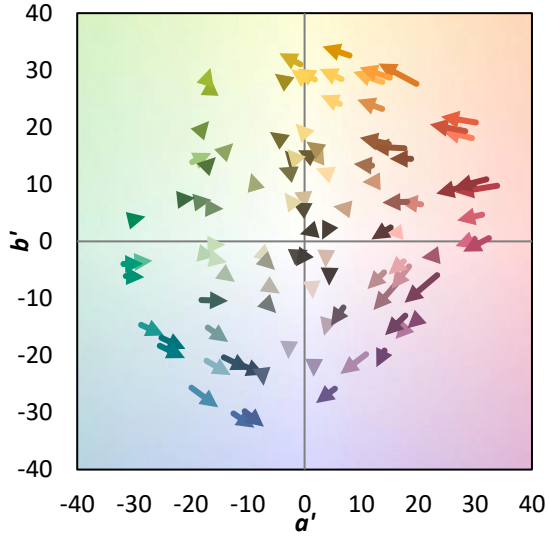


Color Vector Graphics







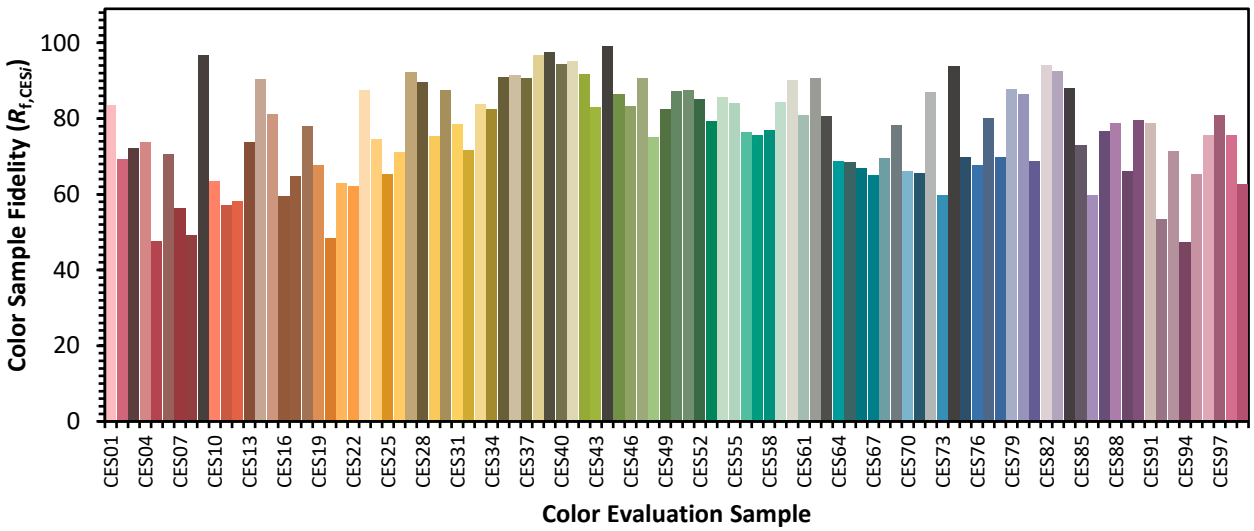


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

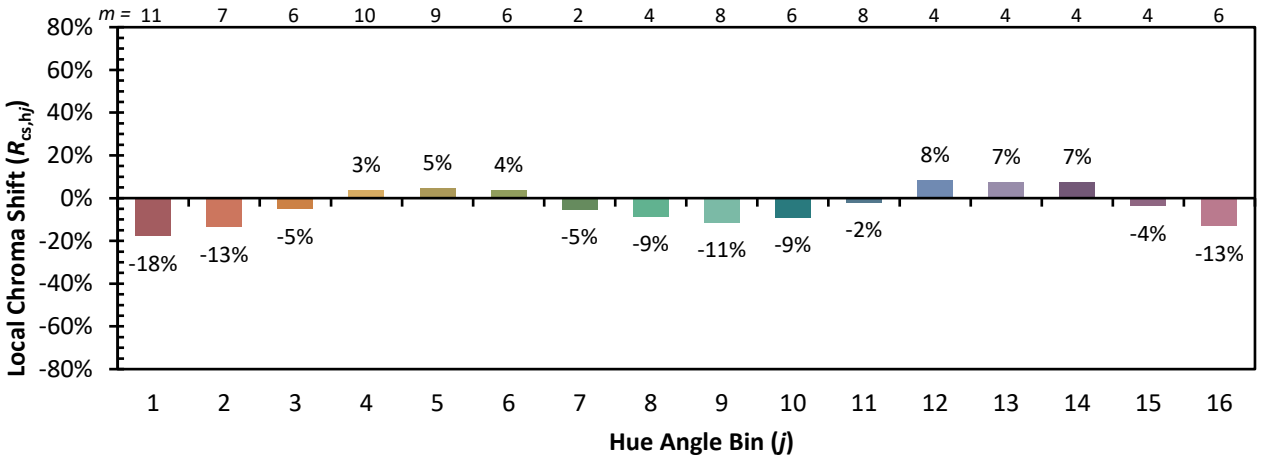
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

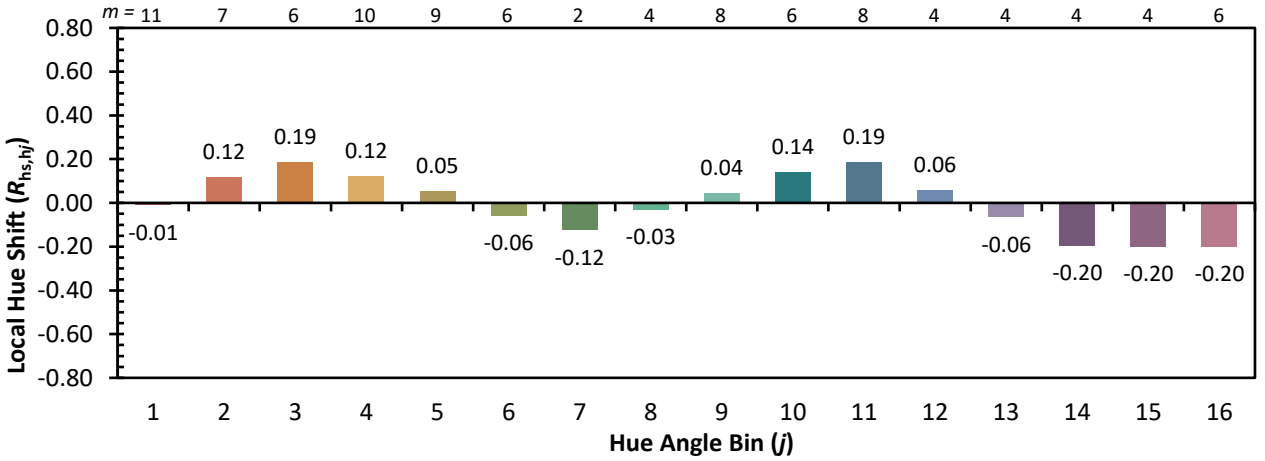


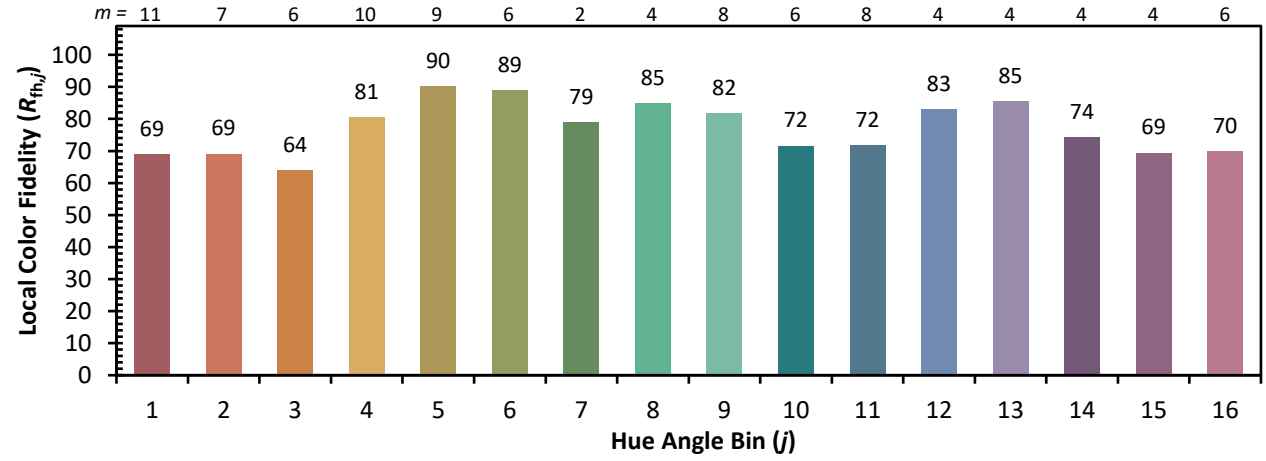
REPORT NUMBER: SP1-2501-332-4

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Color Rendition by Hue-Angle Bin



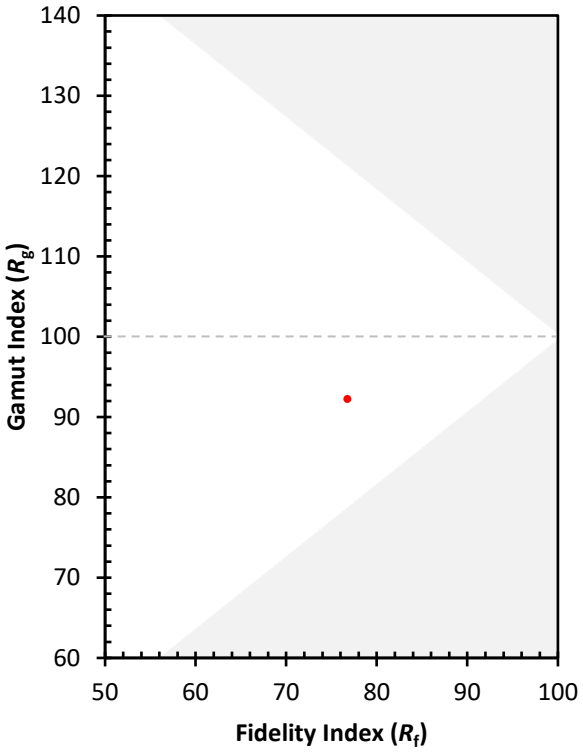


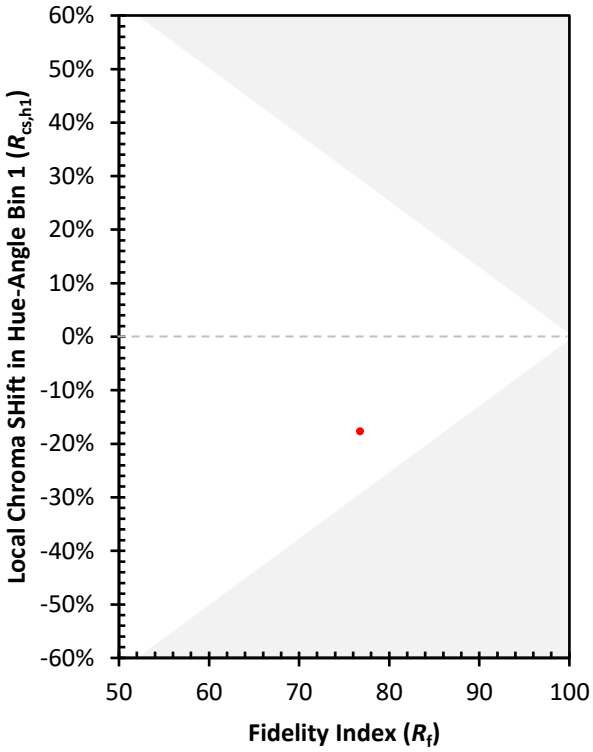


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Measure Comparisons





(END OF REPORT)