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: P981410

Luminaire Tested: **FFX-CLB-60-722-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:	P981410
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-722-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7837.7 lumens
Efficiency:	N/A
Efficacy:	129.3 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):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

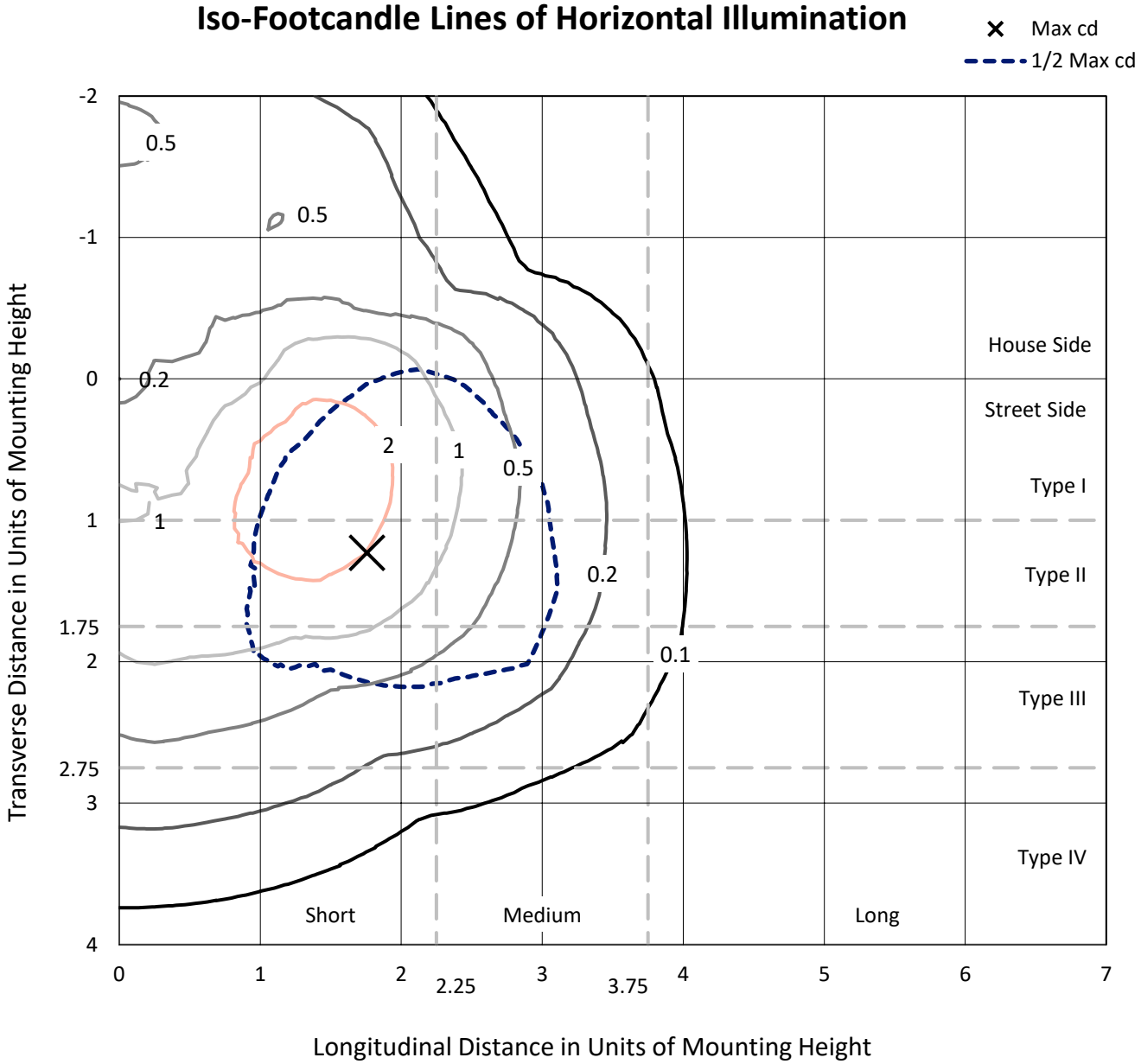


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Iso-Footcandle Lines of Horizontal Illumination



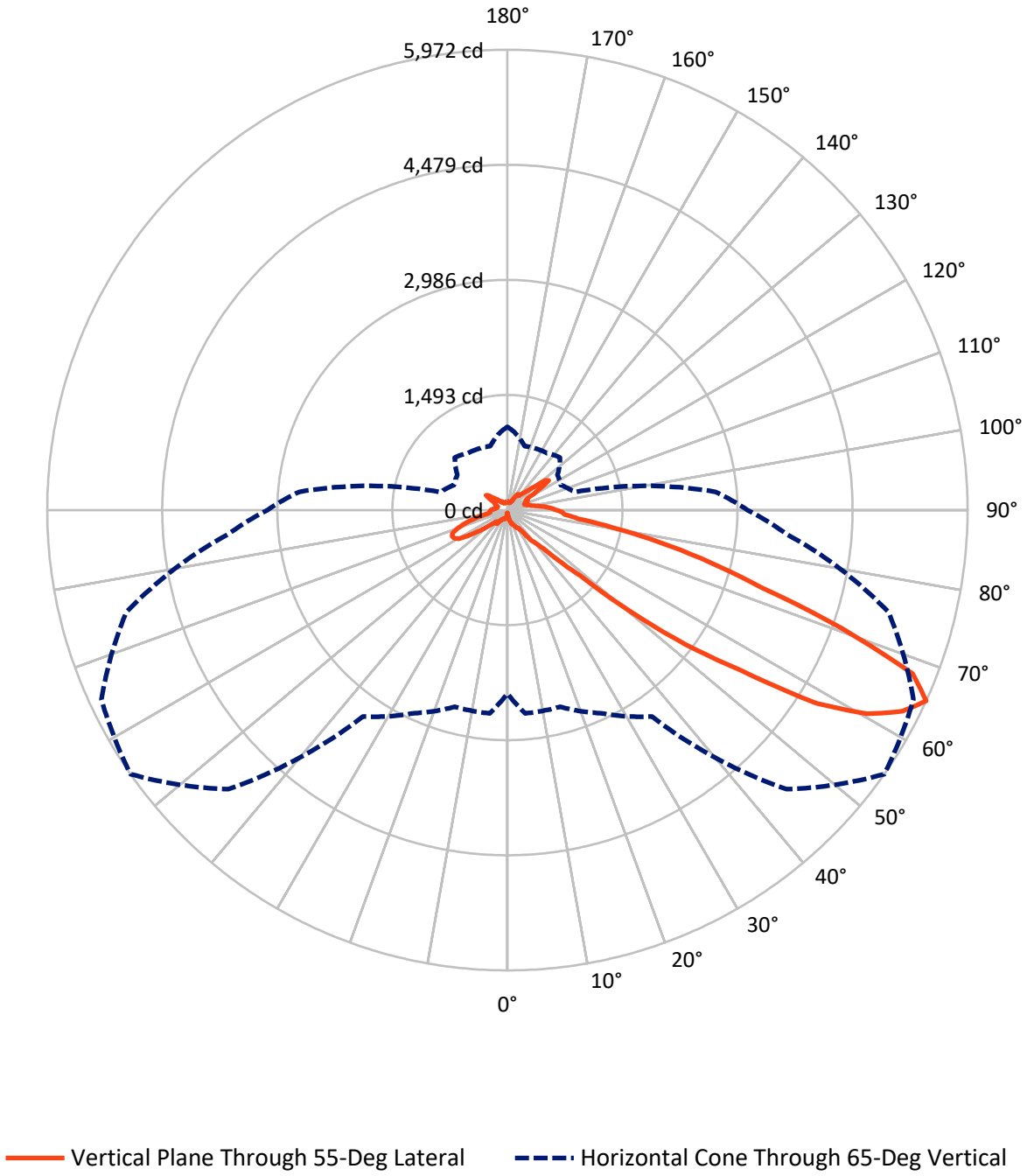
Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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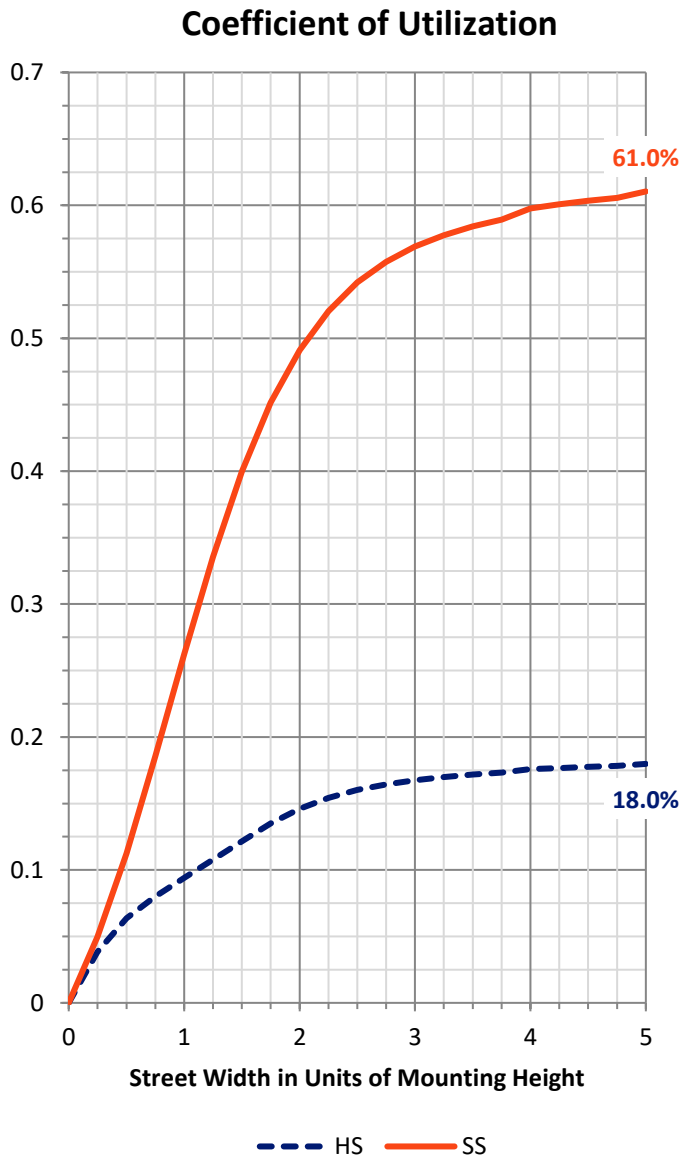
REPORT NUMBER: P981410
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.1	526.3	1995.4
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	4939.4	902.9	5842.3
	% Fixture	63.0	11.5	74.5
Total	Lumens	6408.5	1429.2	7837.7
	% 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°	452.5	5.8
50°-60°	1505.7	19.2
60°-70°	2428.8	31.0
70°-80°	1274.1	16.3
80°-90°	447.1	5.7
90°-100°	288.6	3.7
100°-110°	187.2	2.4
110°-120°	205.3	2.6
120°-130°	345.3	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°	6408.5	81.8
0°-180°	7837.7	100.0



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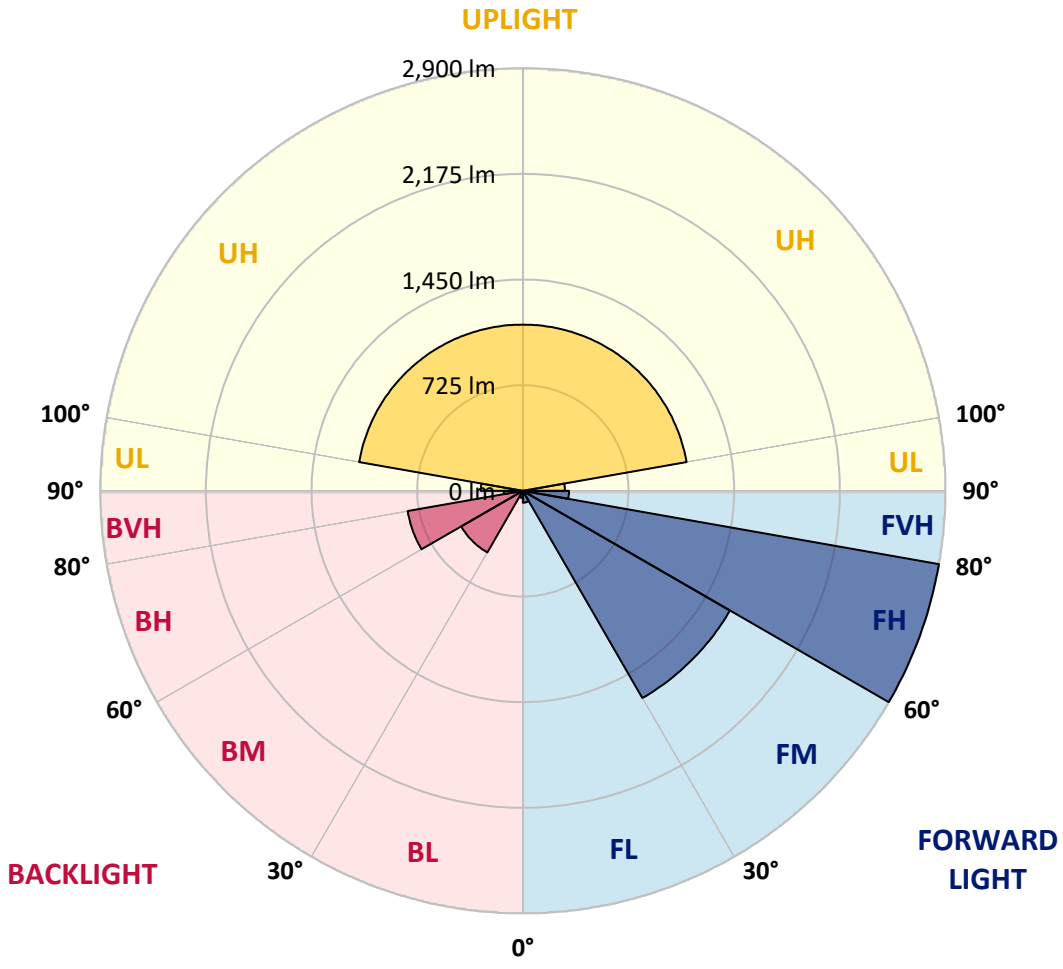
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	81.3	1.0			
FM	(30°-60°)	1641.4	20.9			
FH	(60°-80°)	2900.1	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°)	488.2	6.2	B1/1000		
BH	(60°-80°)	802.8	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°)	1140.6	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	59.4
7.5°	90.3	91.4	91.9	91.9	91.9	93.9	96.0	91.4	87.2	83.1	82.1
10°	129.5	127.0	124.4	125.4	123.3	119.2	121.3	117.7	108.4	105.3	105.3
12.5°	165.7	165.2	166.2	160.5	157.4	148.6	149.7	147.6	140.9	130.1	126.4
15°	185.8	187.3	186.8	188.9	184.3	171.9	168.8	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	165.7	159.0
20°	201.3	201.3	200.8	204.4	211.6	204.9	197.7	193.5	188.9	175.0	164.6
22.5°	215.7	214.7	213.2	214.2	225.0	223.0	217.3	211.1	204.4	183.2	170.3
25°	230.7	231.2	226.6	228.1	239.0	242.1	237.4	231.2	223.5	191.5	178.6
27.5°	247.7	247.2	241.0	243.1	248.8	260.1	254.4	251.3	238.4	198.2	185.8
30°	263.2	260.6	254.4	259.6	259.6	277.7	272.5	274.1	258.1	210.6	197.2
32.5°	274.6	274.1	270.4	277.1	273.5	296.8	295.2	308.1	284.4	234.8	222.4
35°	300.4	300.9	315.9	328.8	322.6	356.6	363.9	380.4	351.5	295.2	281.8
37.5°	486.2	480.0	459.3	435.6	438.7	502.2	493.4	502.2	457.8	376.8	355.6
40°	512.0	513.5	489.8	471.7	469.1	550.2	563.6	634.8	541.9	451.6	409.8
42.5°	498.6	503.7	568.7	592.0	571.3	674.6	678.7	816.0	632.2	556.9	501.7
45°	632.2	633.3	646.7	661.6	664.2	921.3	935.7	1087.4	804.1	701.4	608.0
47.5°	719.5	727.7	746.3	848.5	902.7	1177.8	1274.3	1515.3	1070.9	956.3	772.1
50°	1017.2	1040.0	1131.8	1219.6	1304.2	1746.5	2071.1	2358.6	1608.7	1401.7	1122.0
52.5°	1239.7	1321.2	1423.9	1635.5	1724.8	2387.0	2896.9	3075.0	2253.3	1899.8	1528.7
55°	1432.7	1582.4	1693.3	2039.7	2209.5	3112.1	3656.1	3681.9	3023.9	2318.9	1960.2
57.5°	1830.1	2048.4	2120.7	2416.9	2653.3	3975.6	4731.2	4604.2	3810.4	2796.3	2420.5
60°	2204.3	2455.6	2428.8	2701.8	3014.6	4718.2	5367.5	5303.0	4547.4	3248.4	2823.1
62.5°	2326.1	2581.1	2558.3	2845.3	3265.9	5064.6	5749.4	5642.6	4982.5	3531.2	3025.4
65°	2379.3	2648.1	2642.0	2910.3	3269.0	5119.8	5971.9	5812.9	5119.3	3645.3	3114.2
67.5°	2333.8	2589.8	2587.2	2834.5	3030.6	4719.3	5671.0	5436.7	4782.2	3376.9	2922.7
70°	2013.8	2191.9	2181.1	2332.8	2435.5	3751.1	4602.1	4425.1	3859.4	2775.1	2421.1
72.5°	1642.3	1694.9	1717.6	1804.3	1831.7	2745.2	3451.2	3310.3	2877.8	2078.4	1835.8
75°	1311.4	1314.0	1337.7	1368.2	1358.9	2019.5	2718.3	2631.1	2122.2	1550.4	1392.5
77.5°	868.1	861.4	965.6	978.0	918.7	1286.7	2029.8	1968.4	1518.9	1129.8	1018.3
80°	498.0	500.1	571.3	616.2	592.5	817.5	1390.9	1377.5	1043.1	790.7	699.3
82.5°	371.6	389.1	427.3	451.1	441.8	614.7	925.4	950.7	741.1	568.7	519.7
85°	413.9	423.7	427.9	429.4	418.0	574.9	747.3	745.8	622.9	477.4	460.9
87.5°	403.1	411.3	414.9	417.0	405.7	549.7	706.0	695.7	597.7	458.8	434.6
90°	339.1	358.2	357.7	375.7	362.8	483.1	619.3	612.6	542.4	422.7	394.3
92.5°	284.4	295.2	302.4	327.2	315.9	425.3	556.9	541.4	485.7	384.5	354.0
95°	265.8	275.6	281.3	295.2	281.3	367.5	469.1	455.2	403.1	320.5	291.1
97.5°	224.0	227.1	232.2	241.5	232.2	297.8	379.9	366.4	323.6	261.7	241.0
100°	189.9	193.0	199.7	206.4	201.8	255.0	317.9	310.7	278.2	227.6	213.7
102.5°	179.6	181.7	190.4	194.6	188.9	234.3	280.8	280.8	251.9	210.1	198.7
105°	171.3	173.9	180.6	182.2	178.1	215.7	259.1	256.5	233.8	196.6	185.8
107.5°	163.1	166.2	171.9	169.3	167.2	198.7	232.8	236.9	217.3	186.8	179.6
110°	171.9	172.9	177.5	173.4	177.0	197.7	233.8	234.8	229.2	203.9	196.1

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REPORT NUMBER: P981410
CATALOG NUMBER: FFX-CLB-60-722-U-FR-T3

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	248.8	*271.5*	279.7	273.0	244.1	237.4
115°	256.0	260.1	270.4	255.0	262.7	280.2	*291.1*	292.6	284.9	266.3	263.7
117.5°	199.7	220.4	209.5	218.8	221.9	246.2	*271.0*	278.2	271.0	245.2	261.2
120°	255.5	272.0	234.8	223.5	239.0	281.3	*304.0*	310.2	290.6	291.1	300.9
122.5°	423.7	433.0	456.2	468.1	450.0	475.9	*483.6*	489.3	459.3	424.2	406.7
125°	643.1	636.4	633.3	630.2	625.5	652.9	*658.0*	643.6	613.7	564.6	537.3
127.5°	581.7	587.3	596.1	595.1	590.9	612.1	*625.0*	616.2	608.0	561.0	545.0
130°	418.6	421.1	436.6	464.5	461.4	478.4	*480.0*	488.8	502.7	482.0	465.5
132.5°	346.8	349.4	372.6	385.0	386.0	386.6	*379.3*	399.5	413.9	393.3	379.3
135°	302.4	302.4	307.6	303.0	304.5	317.9	*324.1*	342.2	345.8	336.0	322.1
137.5°	267.3	268.4	257.5	248.8	250.3	274.6	*288.5*	302.4	295.2	275.1	265.3
140°	232.8	227.1	212.1	209.5	220.9	244.1	*252.4*	262.2	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	191.0	190.4	193.0	207.5	263.7	*248.8*	272.5	283.9	217.8	178.1
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	168.3	165.7	164.1	187.9	185.3	*182.2*	187.9	193.0	179.1	156.9
152.5°	130.1	128.0	126.4	127.0	146.6	143.5	*143.5*	147.6	148.1	143.0	131.6
155°	117.2	116.6	115.6	117.7	129.5	126.4	*123.9*	122.8	120.3	118.7	117.2
157.5°	109.9	108.9	108.9	112.0	120.3	115.1	*114.1*	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	101.2	101.7
165°	97.0	96.5	97.0	98.6	98.1	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	101.2	101.2
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°	107.4	107.4	106.8	106.3	105.3	104.3	*103.2*	103.2	103.2	103.7	103.7
175°	111.5	111.5	111.5	111.0	111.0	109.4	*108.9*	108.4	107.9	107.4	106.8
177.5°	116.1	115.6	115.6	115.6	115.6	114.1	*113.0*	112.5	111.5	111.0	111.0
180°	114.1	114.1	114.1	114.1	114.1	114.1	*114.1*	114.1	114.1	114.1	114.1

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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	56.3	53.7	50.1	47.0	46.4	45.4	44.9	43.4
7.5°	84.1	85.2	87.7	83.1	72.8	67.1	68.6	74.3	72.3	71.7
10°	105.8	112.5	117.7	105.8	87.2	75.4	75.9	87.2	88.3	90.3
12.5°	123.9	129.5	128.5	113.5	96.0	84.6	81.0	87.2	92.9	93.4
15°	143.5	133.7	130.1	117.7	105.3	96.5	95.0	96.5	96.5	95.5
17.5°	151.7	134.7	124.4	114.1	105.3	99.1	97.0	94.4	90.8	90.8
20°	153.8	138.8	127.0	116.1	107.4	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°	168.8	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	123.9	113.5	102.7	97.0	95.0	95.0
30°	192.0	177.0	157.9	141.9	129.5	120.3	106.8	99.1	96.5	95.5
32.5°	214.2	197.2	168.3	150.7	136.8	126.4	113.0	103.2	98.1	97.0
35°	268.9	242.6	204.9	172.9	151.7	133.7	117.7	105.8	99.1	98.1
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	313.3	281.8	228.6	224.5	200.2	155.3	121.3	106.8	104.8
42.5°	441.8	363.9	313.8	201.8	219.3	224.5	196.1	152.3	120.8	117.2
45°	532.1	427.9	352.0	215.7	226.1	219.9	200.8	176.5	150.7	143.5
47.5°	689.5	488.2	365.4	250.3	258.6	241.5	213.2	187.9	168.8	166.2
50°	995.1	665.8	411.3	307.6	332.4	284.9	248.2	228.6	202.8	199.7
52.5°	1388.3	801.5	461.9	397.9	454.2	395.3	336.0	296.2	290.6	292.6
55°	1814.6	843.3	528.5	491.8	590.4	535.2	467.1	428.9	466.6	478.4
57.5°	2237.3	906.3	625.0	613.7	739.1	654.9	601.3	617.8	774.7	812.4
60°	2570.2	960.0	706.6	730.8	886.2	794.8	772.1	796.4	1065.8	1165.9
62.5°	2700.8	935.7	748.9	780.4	955.3	892.9	885.1	908.3	1135.4	1234.0
65°	*2710.6*	*898.5*	*765.4*	*793.8*	*966.2*	*899.6*	*878.4*	*858.8*	*1016.7*	*1079.2*
67.5°	2508.3	824.2	745.3	774.7	918.2	829.9	786.0	741.6	822.7	857.3
70°	2022.1	730.8	682.3	699.3	772.1	690.6	630.7	600.2	629.1	626.6
72.5°	1531.8	643.6	613.1	596.1	630.7	564.6	498.6	469.1	494.9	488.2
75°	1170.0	574.4	546.0	489.3	522.8	433.5	360.8	340.6	353.0	348.4
77.5°	844.4	460.4	422.7	360.2	403.6	315.3	242.1	227.6	230.7	220.9
80°	608.0	343.2	306.6	262.2	296.8	225.5	179.6	176.5	178.1	167.7
82.5°	477.4	275.1	250.8	227.1	237.9	203.9	172.9	169.8	171.3	160.0
85°	444.9	269.4	244.1	228.6	232.2	200.8	167.7	166.7	169.3	156.9
87.5°	419.6	266.8	246.7	224.5	215.7	184.3	155.3	160.0	167.2	154.3
90°	370.0	248.8	231.2	211.1	201.8	172.9	155.3	162.1	161.5	152.3
92.5°	326.2	221.9	208.0	196.6	194.6	176.0	162.6	168.8	170.8	161.5
95°	267.3	187.3	180.6	177.0	180.1	162.1	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	159.0	153.3	152.8	144.0	138.8	147.1	153.3	150.7
102.5°	192.5	154.3	149.7	144.5	143.0	135.7	131.6	136.8	142.4	137.3
105°	182.7	146.6	139.3	134.7	132.1	127.0	121.8	123.9	130.1	127.5
107.5°	173.4	146.1	134.7	131.1	131.1	124.4	117.2	117.7	120.8	120.3
110°	187.9	162.1	141.4	136.3	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: P981410
CATALOG NUMBER: FFX-CLB-60-722-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	213.2	193.0	175.0	159.5	144.5	135.2	129.5	126.4	129.5
117.5°	227.6	188.4	185.8	167.2	152.8	140.9	138.3	129.0	134.2	134.2
120°	256.0	218.8	213.2	186.3	166.2	151.2	149.7	148.1	142.4	139.9
122.5°	374.2	325.7	302.4	262.7	228.1	197.2	179.6	155.3	138.3	134.7
125°	508.4	444.4	388.6	336.0	283.9	228.6	182.2	146.1	128.5	125.9
127.5°	509.9	444.9	383.5	319.5	262.7	204.9	163.6	138.3	125.9	125.4
130°	448.5	391.7	324.1	260.6	214.7	176.5	146.6	125.9	117.2	114.6
132.5°	357.1	306.6	263.2	224.0	188.9	156.4	129.5	115.1	109.9	109.4
135°	300.4	256.5	226.1	197.2	169.8	140.9	116.1	108.9	106.3	105.3
137.5°	245.2	218.8	200.2	177.0	150.7	127.0	110.4	107.4	106.3	104.3
140°	212.6	195.1	175.0	149.2	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	104.3
145°	164.6	147.6	139.3	129.0	119.7	113.0	104.3	101.2	100.6	100.6
147.5°	152.8	146.1	140.9	133.7	119.7	107.4	97.5	96.0	98.1	97.5
150°	143.0	138.3	132.1	120.8	106.8	98.6	93.4	93.9	97.5	98.1
152.5°	121.3	118.7	114.6	107.4	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	91.4	91.4	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°	101.2	98.1	97.5	95.5	96.5	98.1	98.1	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°	101.2	99.6	99.1	100.1	102.7	105.8	106.3	105.3	104.3	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°	104.3	105.3	105.8	105.8	107.4	108.4	108.9	108.4	108.4	108.4
175°	107.4	107.9	107.9	108.4	109.9	111.0	112.0	112.0	112.0	112.0
177.5°	111.0	111.0	111.0	111.5	112.0	113.5	114.1	115.1	115.6	115.6
180°	114.1	114.1	114.1	114.1	114.1	114.1	114.1	114.1	114.1	114.1

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

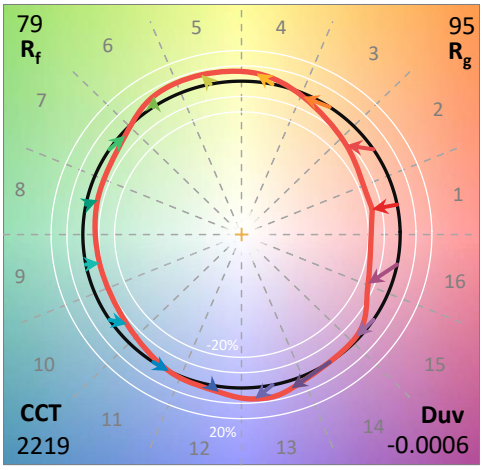
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

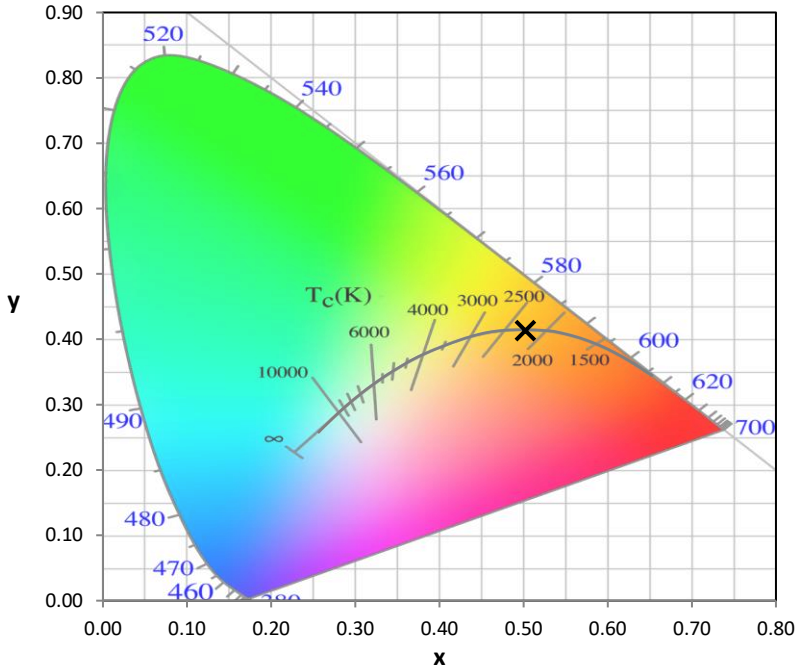
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

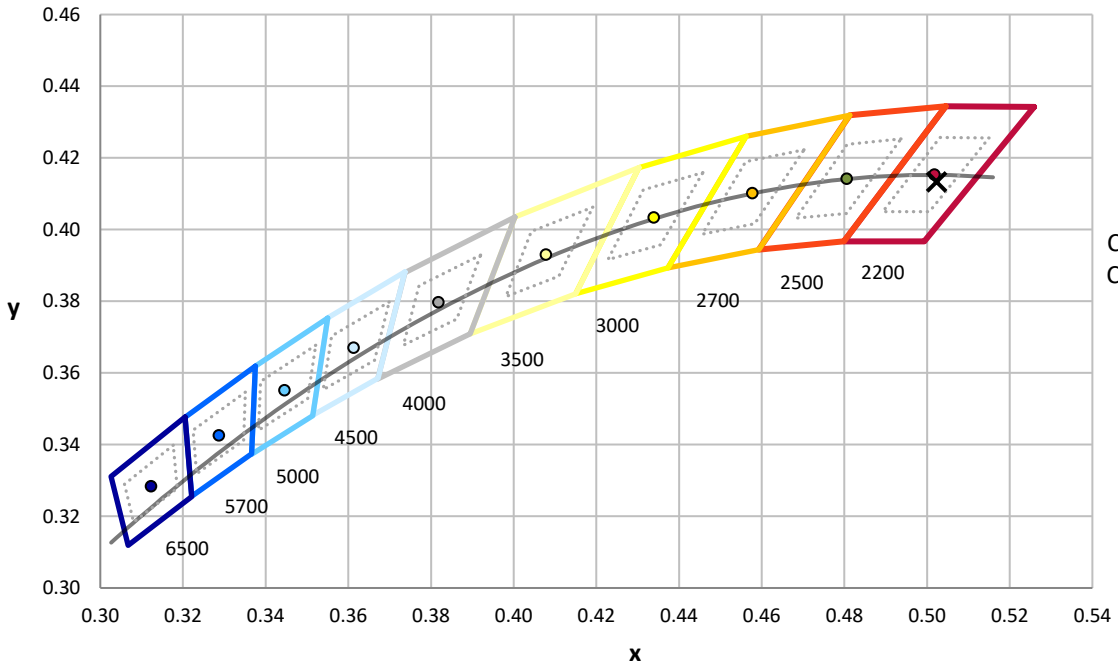
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

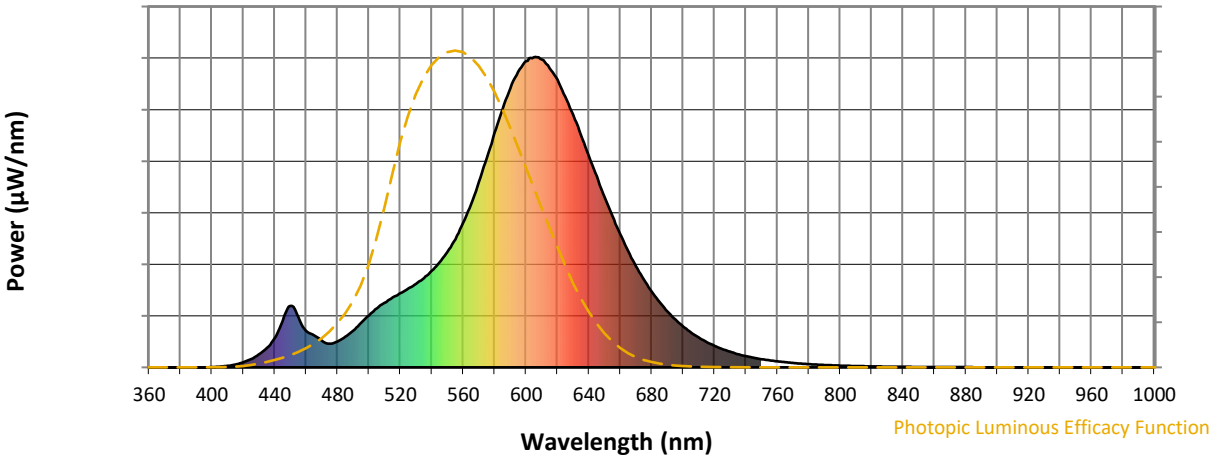


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

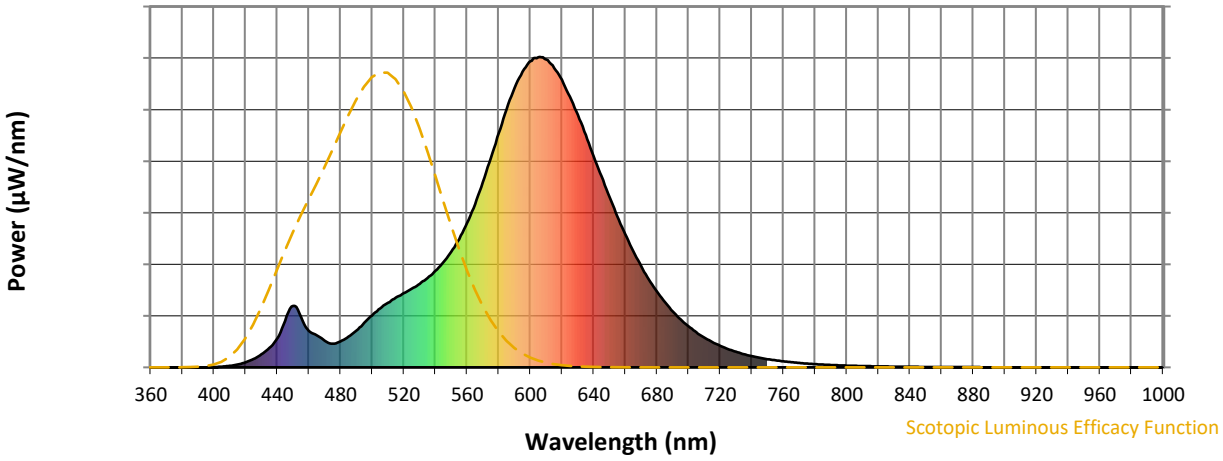


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

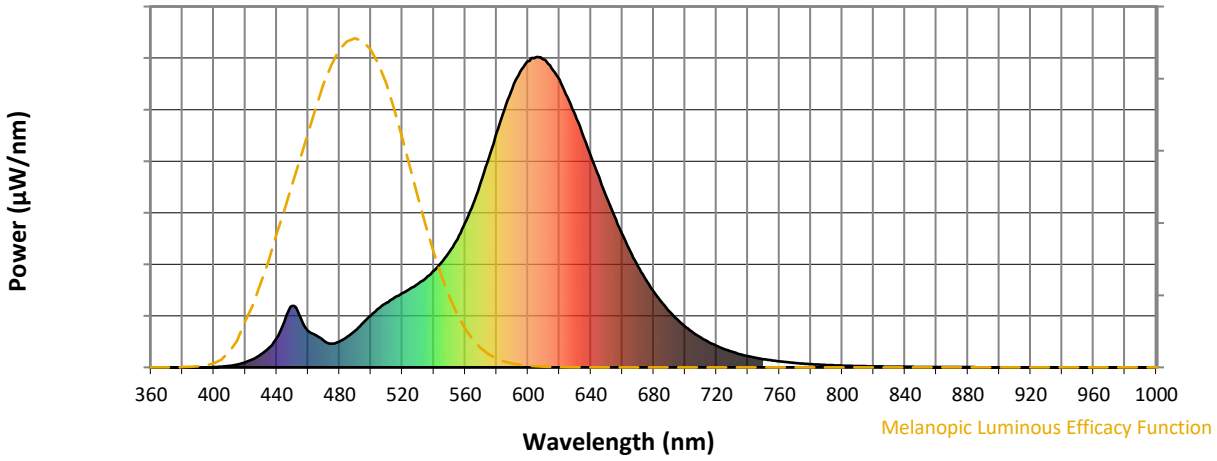


Scotopic Lumens: NR **S/P: 0.94**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

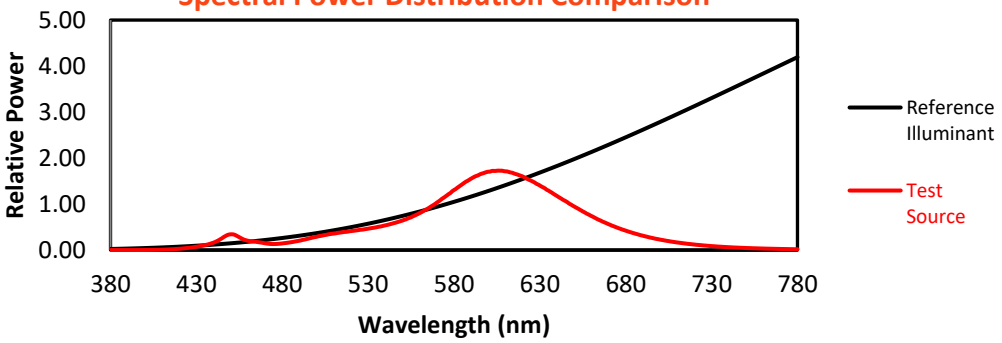
REPORT NUMBER: SP1-2501-332-2

TM-30-18

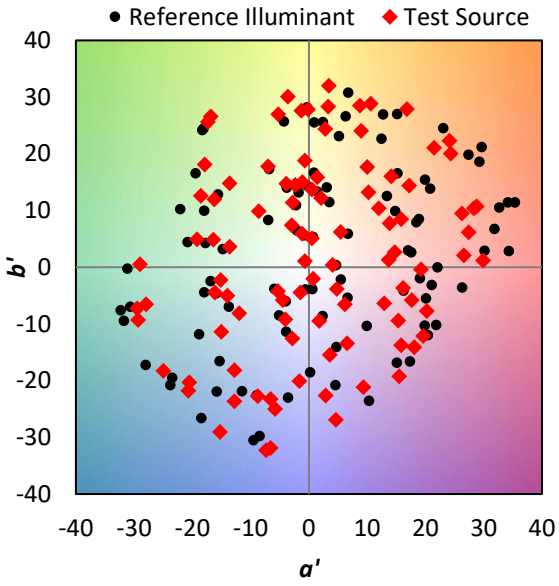
Summary

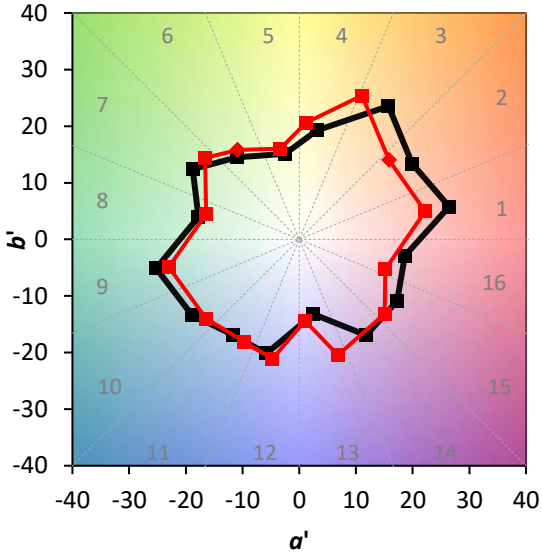
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

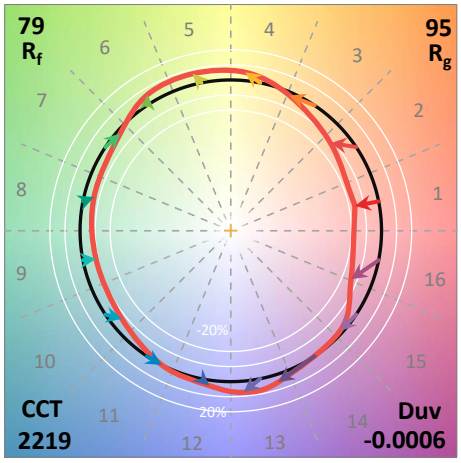
Spectral Power Distribution Comparison

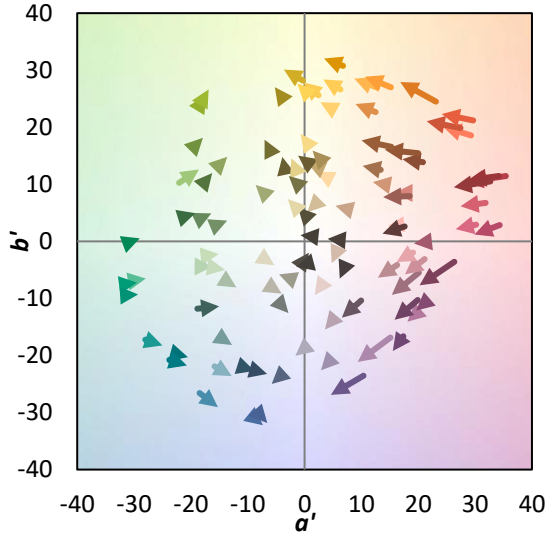


Color Vector Graphics







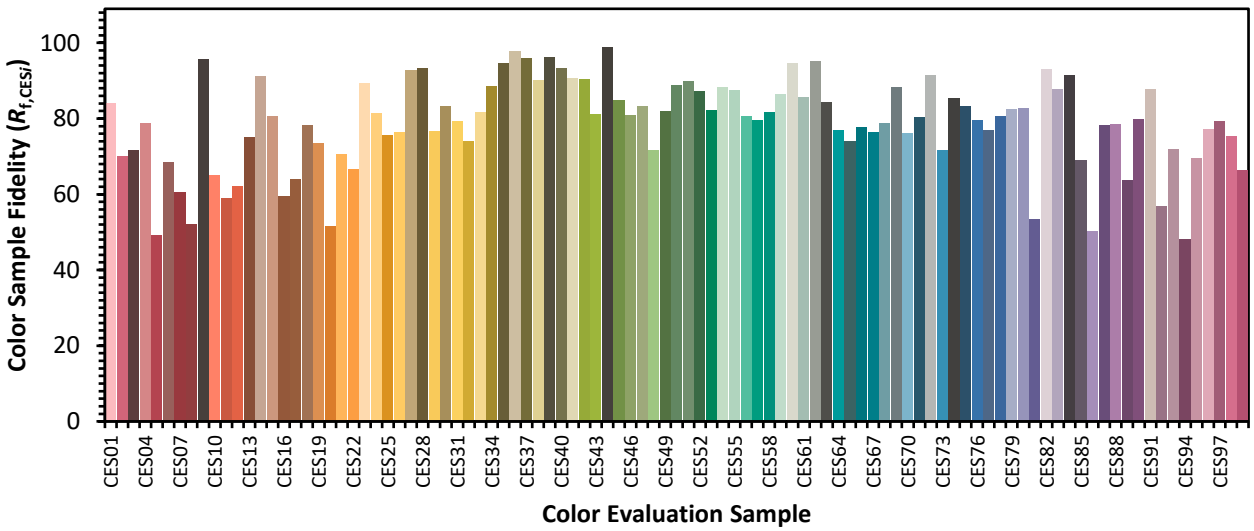


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

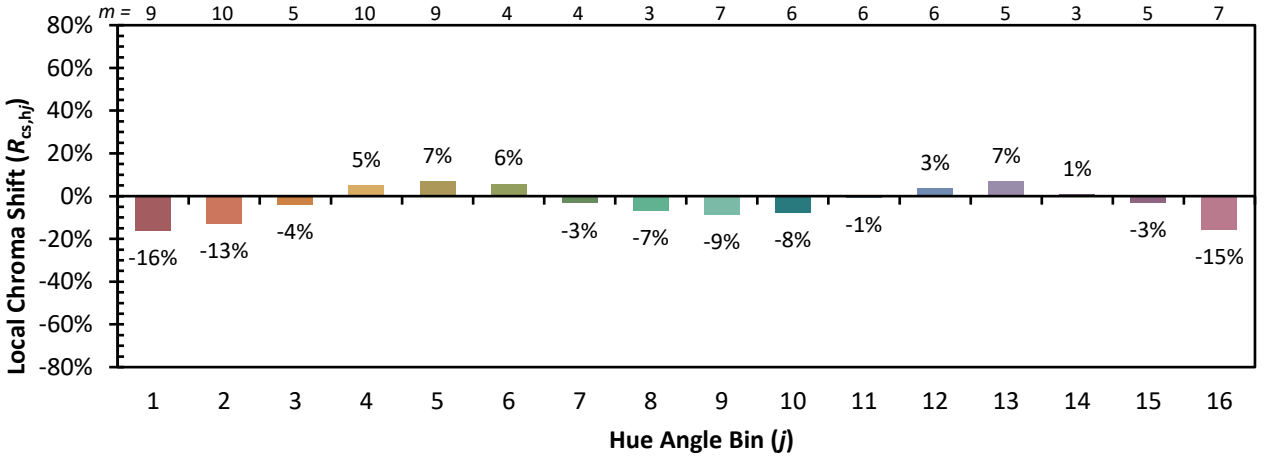
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

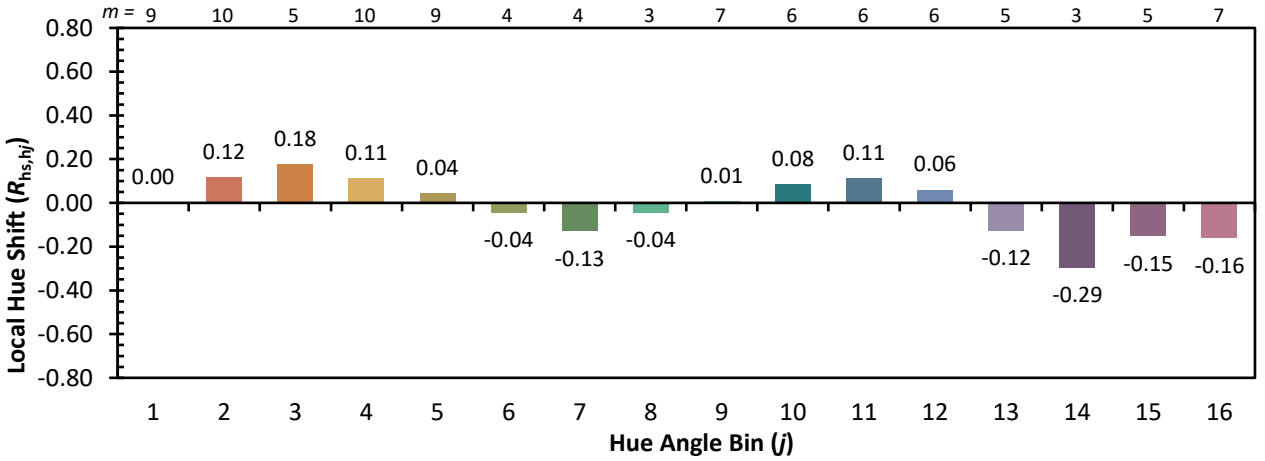


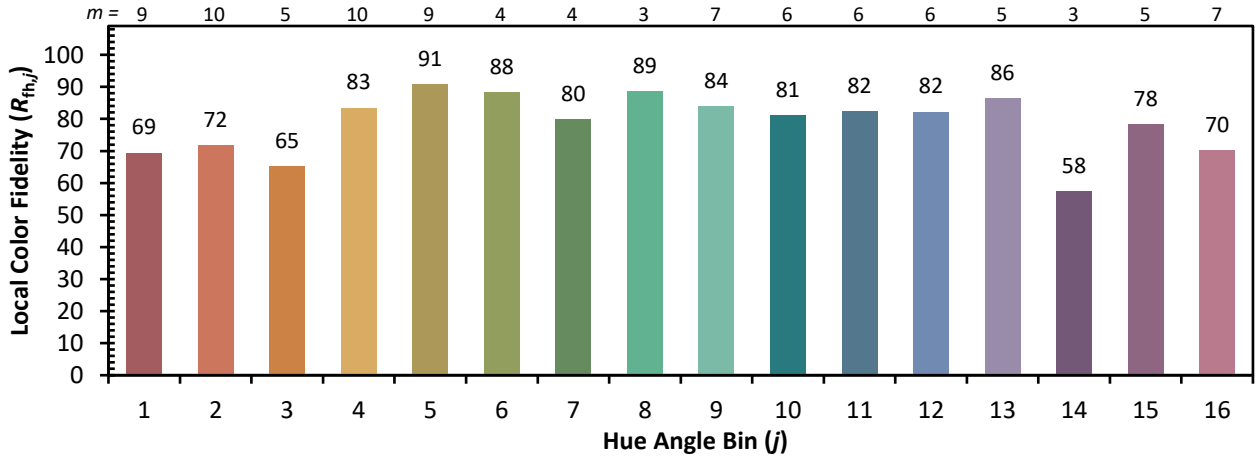
REPORT NUMBER: SP1-2501-332-2

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Color Rendition by Hue-Angle Bin



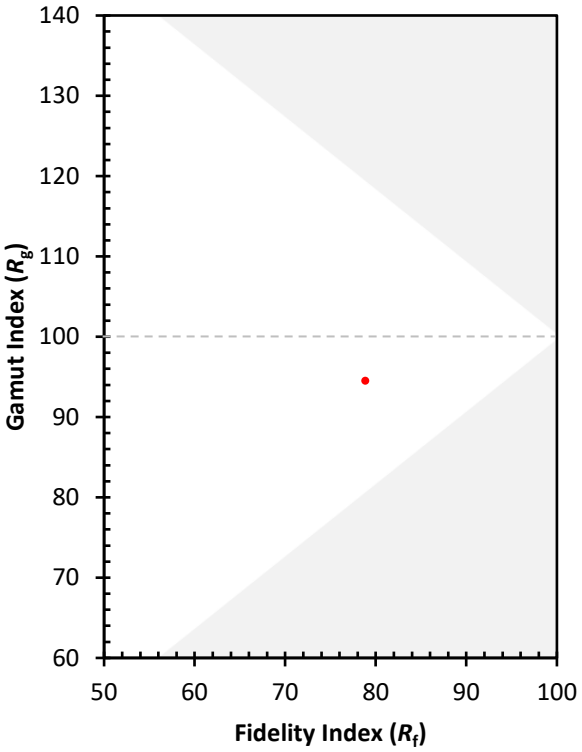


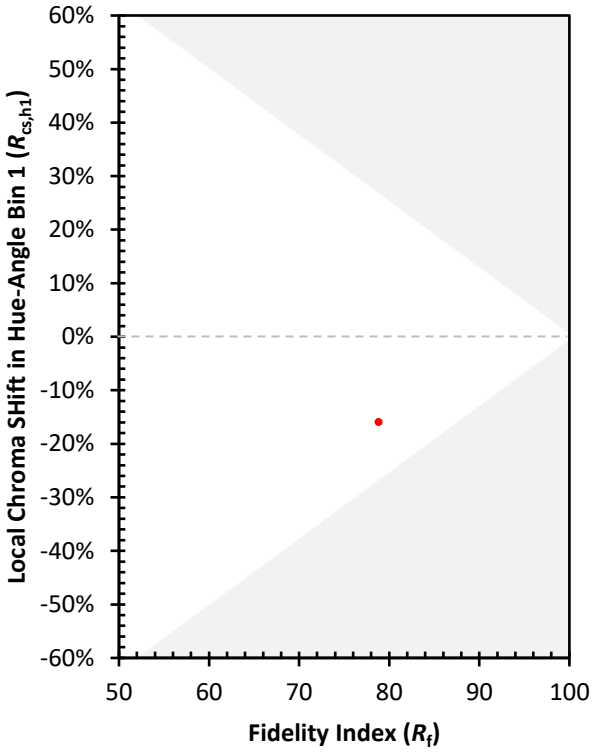


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Measure Comparisons





(END OF REPORT)