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: P1046411

Luminaire Tested: **FFX-CLB-60-722-U-FR-T4-UPLR**

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:	P1046411
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-722-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7688.6 lumens
Efficiency:	N/A
Efficacy:	126.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U4 - 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

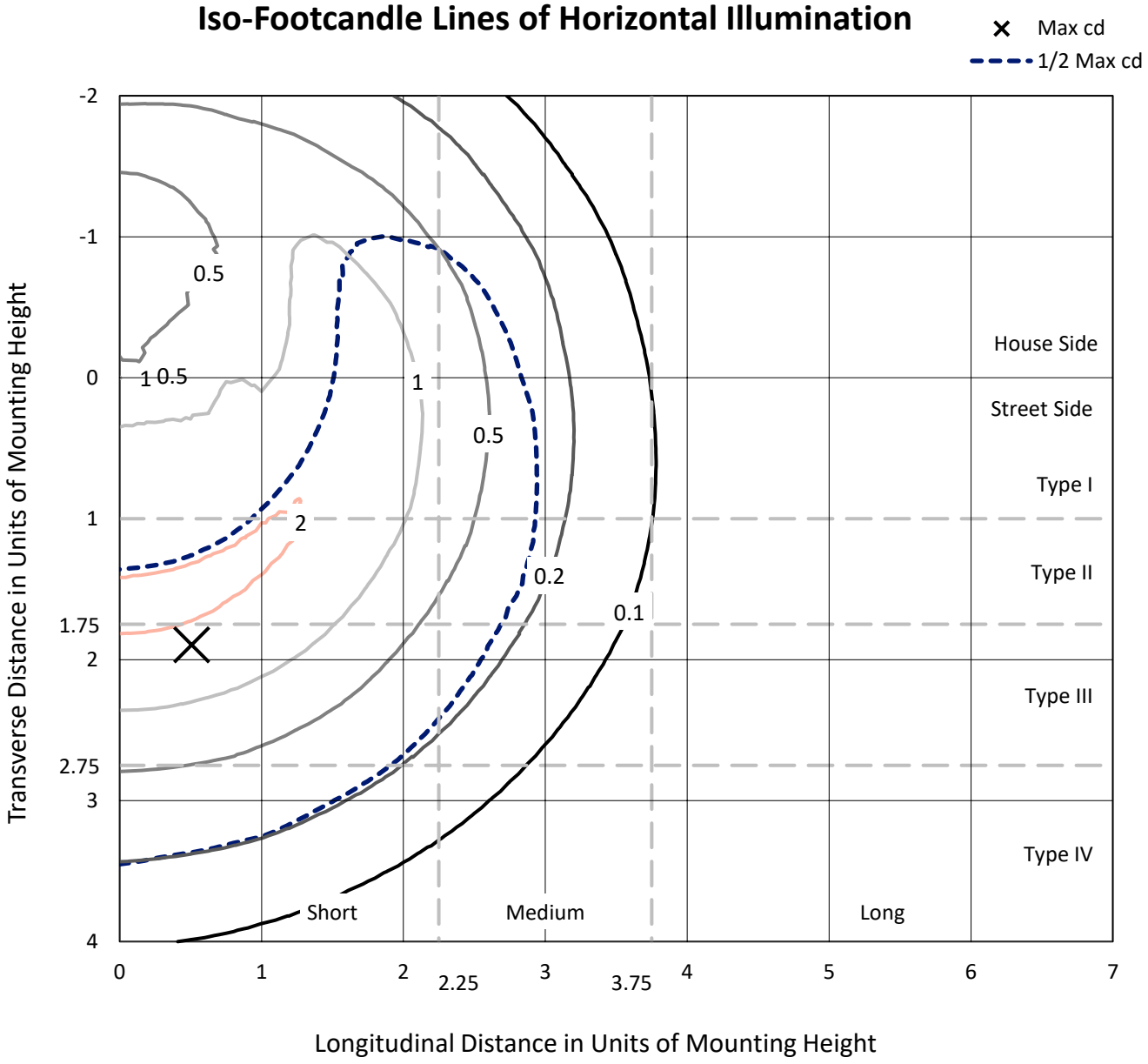


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Iso-Footcandle Lines of Horizontal Illumination



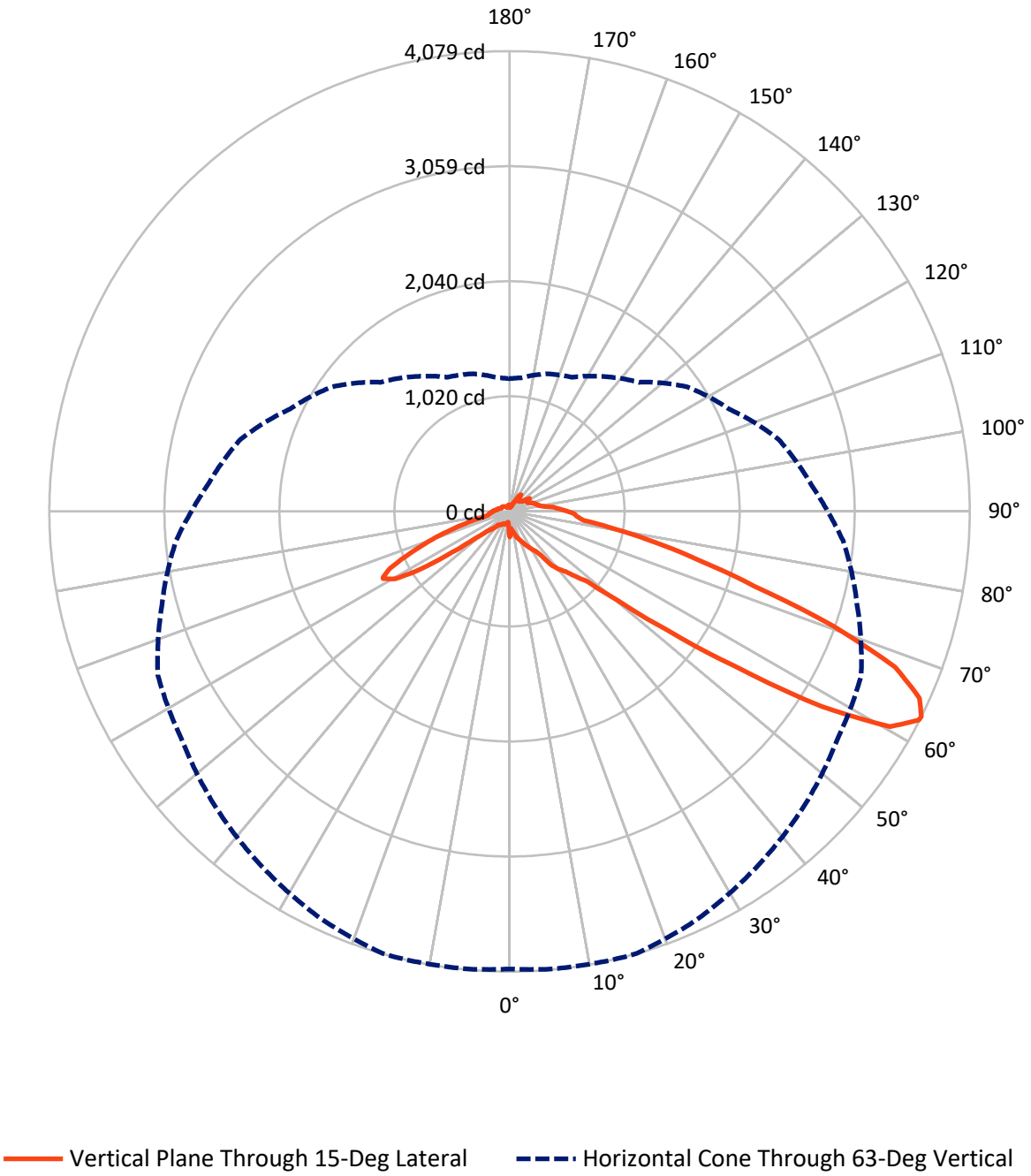
Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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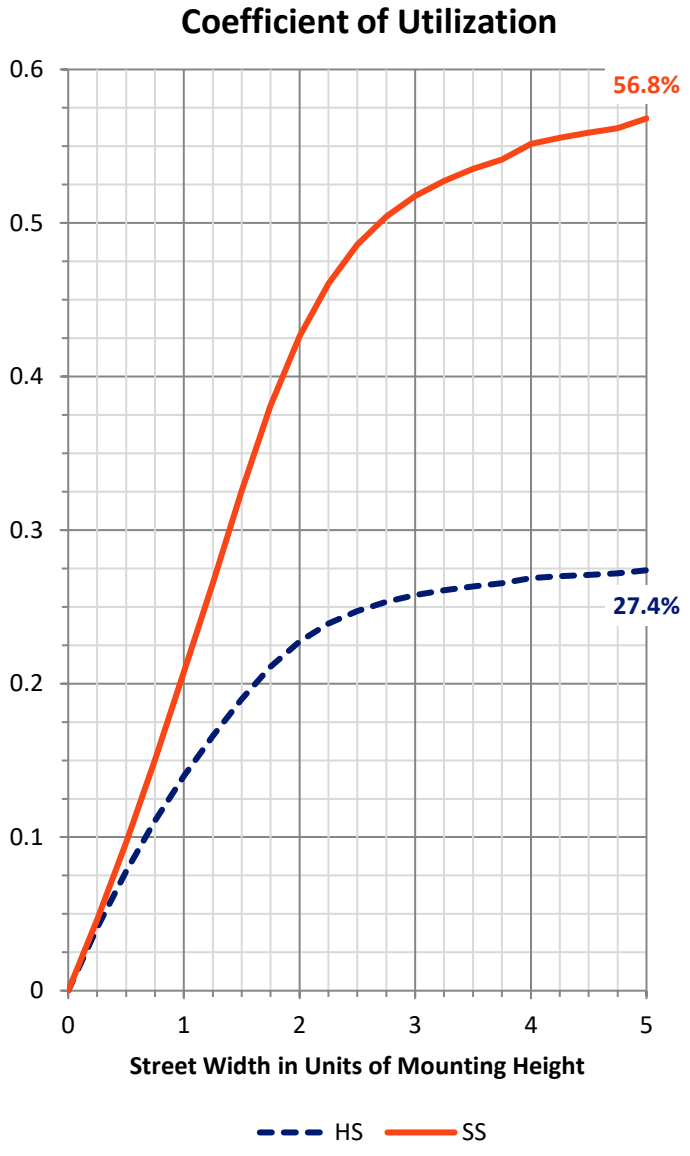
REPORT NUMBER: P1046411
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2174.4	354.3	2528.7
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	4553.0	606.9	5159.9
	% Fixture	59.2	7.9	67.1
Total	Lumens	6727.4	961.1	7688.6
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.2
10°-20°	50.4	0.7
20°-30°	109.1	1.4
30°-40°	224.2	2.9
40°-50°	462.4	6.0
50°-60°	1521.0	19.8
60°-70°	2518.3	32.8
70°-80°	1320.9	17.2
80°-90°	507.2	6.6
90°-100°	306.4	4.0
100°-110°	193.0	2.5
110°-120°	142.9	1.9
120°-130°	121.7	1.6
130°-140°	79.3	1.0
140°-150°	69.0	0.9
150°-160°	31.6	0.4
160°-170°	12.9	0.2
170°-180°	4.5	0.1
0°-90°	6727.4	87.5
0°-180°	7688.6	100.0



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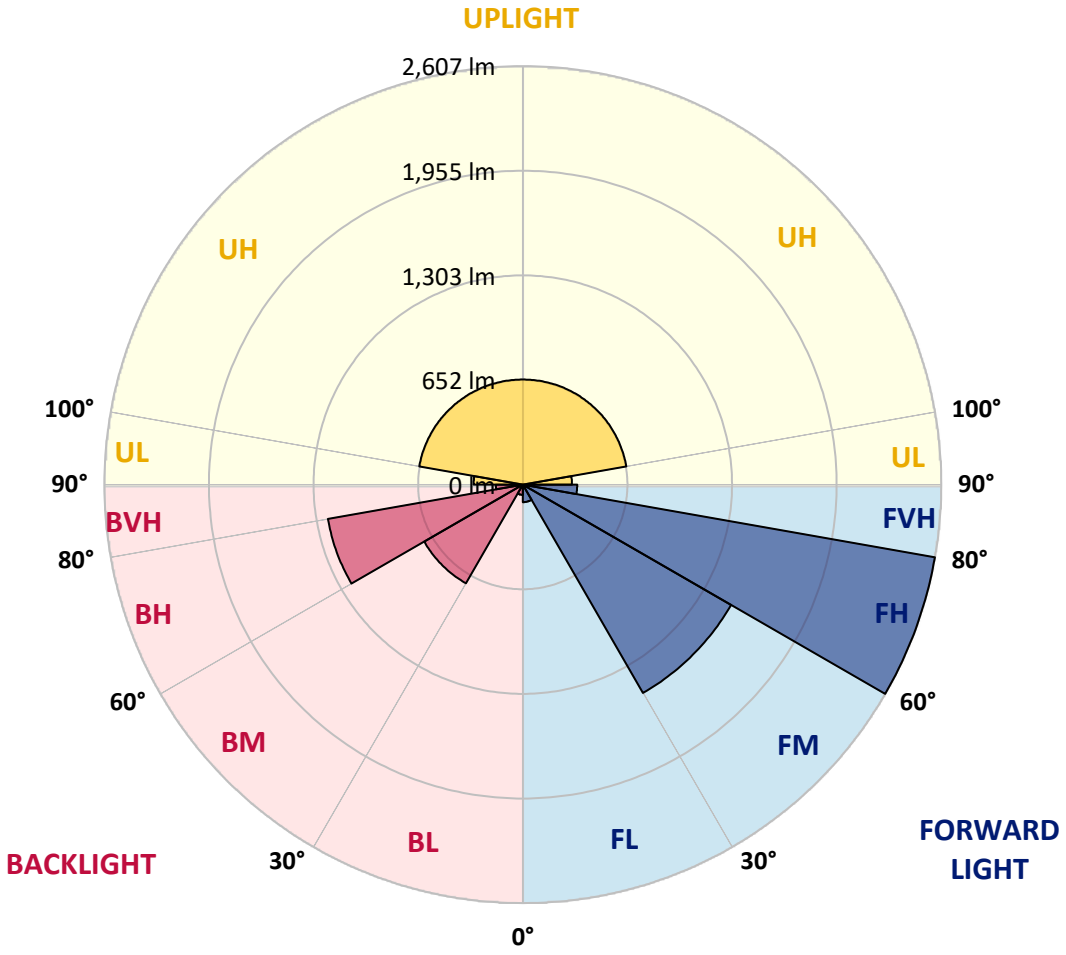
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	109.4	1.4			
FM	(30°-60°)	1498.2	19.5			
FH	(60°-80°)	2606.5	33.9			G2/5000
FVH	(80°-90°)	338.9	4.4			G3/500
BL	(0°-30°)	64.0	0.8	B0/110		
BM	(30°-60°)	709.5	9.2	B1/1000		
BH	(60°-80°)	1232.7	16.0	B3/2500		G3/2500
BVH	(80°-90°)	168.3	2.2			G2/225
UL	(90°-100°)	306.4	4.0		U3/500	
UH	(100°-180°)	654.8	8.5		U4/1000	

BUG Rating: B3-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	227.1	227.1	*227.1*	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
2.5°	139.8	139.8	*160.0*	163.5	182.7	188.7	178.1	170.1	189.7	230.1	236.7
5°	151.9	154.9	*154.4*	153.9	154.9	173.1	191.8	183.2	150.4	119.6	119.6
7.5°	172.1	173.1	*172.6*	172.1	165.5	154.9	150.4	164.0	172.6	146.8	123.1
10°	186.2	185.2	*184.7*	184.2	185.2	189.2	187.7	171.1	154.4	145.8	140.8
12.5°	212.9	213.4	*211.9*	210.9	209.9	208.4	206.9	210.4	201.3	176.6	160.0
15°	233.1	233.1	*237.2*	236.2	236.2	231.1	224.0	214.0	201.8	195.3	180.6
17.5°	254.3	254.8	*254.3*	254.3	252.3	245.7	238.2	229.1	216.5	205.4	192.8
20°	275.0	275.0	*274.5*	274.0	273.5	268.5	258.9	246.8	235.1	224.5	211.4
22.5°	296.7	298.2	*299.2*	298.2	296.7	291.7	281.1	269.5	258.4	243.2	229.1
25°	327.5	328.0	*327.0*	326.0	324.0	317.4	309.3	297.2	283.6	267.4	248.8
27.5°	356.8	357.8	*357.3*	357.3	353.2	347.7	339.6	323.5	308.3	289.6	270.5
30°	390.1	389.1	*386.5*	387.0	384.5	380.0	370.9	356.8	337.6	315.4	294.2
32.5°	422.9	422.9	*419.3*	417.8	417.8	411.8	401.7	387.0	368.9	345.2	324.5
35°	458.7	467.8	*476.9*	480.4	480.4	471.8	459.7	440.5	424.9	400.2	374.4
37.5°	630.8	625.2	*603.0*	605.5	598.0	594.4	586.4	570.2	548.5	510.7	471.3
40°	691.3	690.3	*673.6*	671.6	668.1	656.5	647.9	636.8	629.2	583.8	524.8
42.5°	701.9	707.5	*729.7*	735.2	764.0	746.3	712.0	649.4	633.8	599.5	574.7
45°	821.0	823.0	*823.0*	824.0	816.5	803.3	798.8	758.9	727.6	678.2	631.8
47.5°	939.6	944.1	*926.5*	940.6	960.3	933.5	921.4	888.6	845.7	807.4	731.2
50°	1215.1	1232.8	*1236.3*	1236.8	1245.4	1243.3	1225.2	1179.8	1136.9	1049.1	964.3
52.5°	1725.2	1742.4	*1750.0*	1731.8	1705.1	1693.0	1697.5	1678.8	1579.4	1485.1	1313.0
55°	2391.3	2421.1	*2421.1*	2440.3	2432.2	2374.7	2371.1	2249.0	2088.6	1983.6	1833.7
57.5°	3282.5	3237.6	*3262.8*	3290.0	3234.5	3174.0	3083.6	2956.0	2721.3	2540.2	2323.2
60°	3943.0	3924.8	*3874.9*	3844.1	3705.3	3585.2	3514.1	3420.7	3242.6	3004.4	2714.3
62.5°	4064.1	4077.2	*4073.7*	4073.7	3962.7	3818.9	3675.0	3538.3	3427.8	3182.6	2953.0
63°	*4056.5*	*4072.7*	*4079.2*	*4077.2*	*3977.3*	*3835.5*	*3692.7*	*3541.8*	*3439.4*	*3189.1*	*2967.1*
65°	3991.9	4005.6	*3994.0*	3989.9	3926.8	3831.0	3670.5	3521.1	3427.8	3159.8	2969.1
67.5°	3732.6	3729.5	*3686.1*	3705.8	3666.0	3612.5	3462.6	3315.3	3250.7	2958.0	2782.4
70°	3014.5	2993.3	*3040.8*	3069.0	3025.6	3004.4	2826.3	2729.4	2646.2	2423.6	2281.8
72.5°	2304.5	2260.6	*2268.7*	2294.4	2239.9	2225.3	2149.1	2069.4	2029.5	1890.8	1733.3
75°	1807.0	1783.3	*1739.4*	1746.4	1701.5	1686.9	1678.8	1655.6	1640.0	1524.4	1368.5
77.5°	1351.3	1350.3	*1313.5*	1307.9	1275.6	1299.9	1290.3	1325.1	1317.5	1225.7	1107.1
80°	945.6	940.1	*949.7*	946.1	938.6	952.7	937.6	956.7	956.7	896.7	846.7
82.5°	617.1	628.2	*658.5*	665.6	676.7	710.0	656.5	628.2	620.7	614.1	589.9
85°	612.6	615.6	*602.5*	604.0	599.0	586.4	595.9	600.5	592.9	556.6	503.1
87.5°	577.3	581.3	*570.7*	573.7	555.1	559.1	565.2	568.7	565.2	532.9	488.5
90°	486.4	491.0	*500.6*	500.6	502.1	503.1	493.5	499.1	495.5	464.7	432.4
92.5°	431.4	435.5	*436.0*	436.5	432.4	445.6	429.9	420.3	417.8	393.1	369.9
95°	394.6	390.1	*389.1*	390.1	388.0	387.5	377.4	370.4	367.4	347.7	325.0
97.5°	308.8	311.3	*310.3*	312.9	307.8	307.3	298.7	289.6	286.6	270.5	255.3
100°	271.0	270.5	*271.5*	272.0	269.0	265.4	259.4	252.8	249.3	237.2	222.5
102.5°	254.3	253.8	*255.8*	256.3	253.8	251.3	246.2	242.2	239.2	228.1	211.9
105°	243.7	242.2	*244.7*	244.7	239.2	237.7	234.1	233.6	231.6	218.5	202.9
107.5°	229.1	226.6	*229.6*	229.1	227.1	225.6	222.5	220.5	219.0	207.9	190.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	215.5	211.9	*213.4*	214.5	216.0	215.0	212.4	208.4	204.4	195.3	180.6
112.5°	190.2	192.3	*191.8*	191.8	193.3	193.8	189.2	186.7	184.2	177.1	167.5
115°	180.6	180.6	*180.6*	180.6	176.6	175.1	170.6	167.5	167.0	158.4	152.4
117.5°	173.1	174.1	*176.6*	178.1	183.2	180.1	170.1	163.5	161.0	157.4	150.9
120°	203.9	200.3	*196.8*	196.3	196.8	194.8	192.8	188.2	182.2	172.6	154.4
122.5°	218.5	209.4	*210.9*	210.4	206.9	208.4	208.9	209.4	205.4	190.2	162.0
125°	183.2	180.6	*182.2*	183.7	184.2	183.7	182.7	187.2	181.7	176.6	155.4
127.5°	146.3	145.3	*142.3*	141.8	140.8	141.3	141.3	142.8	137.8	132.7	131.7
130°	139.3	137.3	*137.8*	138.3	137.8	134.7	132.7	130.2	129.7	124.6	117.6
132.5°	126.2	127.2	*135.7*	136.7	142.8	139.3	128.7	121.6	122.6	125.1	122.6
135°	118.1	117.6	*124.1*	124.6	133.7	131.2	122.6	114.5	114.5	120.6	118.1
137.5°	120.6	121.6	*122.1*	122.6	122.1	121.6	121.1	117.6	115.1	114.5	108.5
140°	129.7	129.2	*124.1*	124.6	124.1	124.1	127.2	129.7	121.1	113.5	103.4
142.5°	135.7	137.3	*135.2*	137.8	142.3	138.3	133.2	126.7	121.6	116.6	110.5
145°	184.2	180.6	*179.1*	178.1	175.1	166.5	161.5	154.9	148.9	140.8	130.7
147.5°	167.0	168.0	*165.0*	166.0	162.0	159.0	157.9	158.4	156.4	151.9	141.3
150°	132.7	133.7	*130.7*	129.2	127.7	127.7	127.7	128.7	126.2	123.1	118.1
152.5°	92.8	91.8	*90.8*	90.3	89.3	88.3	88.3	88.8	86.3	85.3	81.2
155°	85.3	84.8	*80.7*	79.7	80.7	81.7	82.3	80.7	78.7	76.7	71.1
157.5°	66.6	65.1	*64.6*	65.6	65.6	65.1	64.1	65.1	63.1	62.6	61.6
160°	54.5	54.0	*54.5*	54.5	55.0	55.0	54.5	54.5	53.5	54.0	54.0
162.5°	46.4	46.4	*46.4*	45.9	46.9	47.4	46.9	46.9	47.4	48.9	50.0
165°	39.9	39.9	*40.4*	40.4	40.9	40.9	41.4	41.9	42.9	46.4	49.5
167.5°	37.3	37.3	*37.8*	37.8	38.4	38.9	39.9	41.9	44.9	48.9	50.5
170°	36.8	36.8	*36.8*	36.8	37.3	37.8	39.9	42.9	46.4	48.9	47.4
172.5°	38.4	38.4	*38.9*	38.9	38.9	40.9	42.4	44.9	46.9	47.4	45.9
175°	39.9	39.4	*39.9*	39.9	40.4	41.9	43.9	44.9	45.9	46.4	46.9
177.5°	38.9	38.9	*38.9*	39.4	39.4	39.9	40.9	41.4	42.4	43.4	44.9
180°	37.8	37.8	*37.8*	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
2.5°	236.7	230.1	179.1	153.4	175.1	217.5	221.5	191.8	148.9	103.4	94.4
5°	126.2	133.2	148.9	148.4	138.3	129.2	118.1	111.0	122.6	117.6	120.6
7.5°	114.0	107.5	110.0	128.7	125.6	95.4	86.3	84.3	94.4	117.6	115.1
10°	138.8	136.7	129.2	114.0	109.0	113.0	116.6	114.0	105.0	91.3	89.3
12.5°	156.9	154.4	155.4	165.0	153.4	127.2	112.5	108.0	113.0	133.2	137.3
15°	174.6	170.1	163.5	149.9	138.8	131.7	123.1	114.0	117.1	111.5	109.5
17.5°	186.7	179.6	166.0	155.9	144.8	135.7	128.2	118.6	112.0	110.5	111.0
20°	202.9	195.3	180.6	169.0	155.4	143.3	130.2	120.1	113.5	111.0	111.0
22.5°	221.5	212.4	195.8	179.6	164.5	148.9	133.2	122.1	116.1	113.5	112.5
25°	241.2	232.1	211.4	194.3	175.1	157.9	141.8	127.7	121.1	118.1	115.6
27.5°	261.4	250.3	229.6	208.4	187.7	167.5	150.4	135.7	126.7	121.6	122.1
30°	283.6	274.5	251.3	227.1	201.3	177.6	161.0	144.3	133.2	127.7	128.2
32.5°	313.4	298.7	271.0	243.2	218.0	191.8	170.6	151.4	139.3	135.7	136.2
35°	362.8	344.1	310.3	272.5	238.7	207.9	181.2	158.4	144.3	138.8	138.3
37.5°	452.1	426.9	388.0	343.6	294.7	244.7	201.3	166.5	148.9	139.8	138.3
40°	495.5	461.2	412.3	373.9	340.6	297.7	248.3	195.8	156.4	144.8	143.3
42.5°	553.6	524.8	461.2	386.5	342.1	306.3	271.5	237.7	188.7	158.4	152.9
45°	609.6	583.8	533.9	460.7	394.6	338.6	286.6	249.8	219.5	188.7	186.2
47.5°	703.9	676.7	593.4	528.3	458.7	395.1	340.6	280.1	240.7	219.0	219.0
50°	940.6	890.6	808.4	708.5	596.4	493.5	416.3	342.1	294.7	261.9	260.4
52.5°	1271.1	1200.5	1079.4	968.8	836.6	717.6	597.5	468.3	399.1	351.7	351.2
55°	1748.5	1676.3	1514.3	1301.9	1139.9	997.6	873.0	731.2	622.2	545.5	539.4
57.5°	2257.6	2197.1	2032.0	1768.1	1512.8	1261.0	1110.1	997.1	944.6	891.1	880.0
60°	2587.6	2483.7	2333.3	2081.5	1834.2	1513.3	1326.1	1196.4	1178.8	1167.2	1152.5
62.5°	2795.5	2672.9	2449.4	2147.6	1920.5	1616.8	1449.2	1311.0	1269.6	1207.5	1189.9
63°	*2819.2*	*2686.0*	*2468.0*	*2146.1*	*1923.1*	*1618.3*	*1458.3*	*1311.0*	*1262.5*	*1187.8*	*1176.2*
65°	2808.1	2684.5	2467.0	2114.8	1864.5	1588.5	1432.1	1250.9	1173.7	1074.8	1055.1
67.5°	2638.6	2506.9	2302.0	1955.9	1729.8	1448.2	1276.1	1083.9	966.8	869.9	847.2
70°	2148.1	2066.4	1886.2	1587.0	1415.4	1195.9	1045.0	894.2	767.5	665.6	639.8
72.5°	1636.9	1551.2	1415.9	1221.7	1095.0	944.1	801.3	685.3	580.8	513.2	515.2
75°	1298.9	1217.1	1105.6	977.9	874.5	740.3	599.0	483.9	409.7	369.4	365.8
77.5°	1046.0	989.5	892.1	774.6	685.3	545.0	419.3	318.9	263.9	240.7	234.1
80°	806.4	767.0	694.3	590.9	498.0	383.0	285.6	225.6	196.3	176.6	173.1
82.5°	573.7	550.0	489.5	417.3	354.2	294.2	250.3	210.9	180.6	164.0	159.0
85°	478.9	456.7	418.3	373.4	333.0	289.1	242.7	200.8	172.6	159.5	152.9
87.5°	464.7	444.1	407.2	359.3	315.4	267.9	221.0	181.7	161.5	148.9	144.8
90°	416.3	400.7	368.4	324.5	280.6	232.1	191.2	163.5	147.8	137.8	133.2
92.5°	358.8	345.2	318.4	281.6	244.7	209.9	178.6	155.4	139.8	129.7	126.2
95°	311.8	303.3	281.1	249.8	223.0	194.3	167.5	145.3	129.2	120.1	116.6
97.5°	248.8	238.7	222.5	200.8	180.6	160.5	140.8	125.6	114.0	108.0	105.0
100°	216.5	209.9	195.3	178.1	161.0	143.3	128.2	116.6	109.0	103.9	101.4
102.5°	203.9	199.3	185.7	168.5	152.4	135.2	120.1	109.5	103.9	99.4	97.4
105°	192.3	188.7	178.1	162.5	146.8	128.2	111.0	101.9	96.9	93.9	92.3
107.5°	180.1	176.1	166.0	150.9	137.3	121.1	106.0	94.9	88.3	84.8	84.3

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

Scaled Data Report

REPORT NUMBER: P1046411
CATALOG NUMBER: FFX-CLB-60-722-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	170.1	167.0	155.9	143.8	130.7	115.6	102.4	90.8	83.3	79.2	78.7
112.5°	159.5	155.9	144.8	133.2	122.1	109.0	97.4	87.3	80.2	76.2	75.7
115°	145.3	142.3	134.2	123.1	114.0	101.4	91.8	82.8	77.2	73.2	72.7
117.5°	146.8	138.3	127.2	117.1	109.0	99.9	91.3	84.3	75.7	71.1	71.1
120°	148.9	140.8	129.7	121.1	116.6	109.5	96.4	86.3	74.7	70.1	69.6
122.5°	146.8	147.8	141.8	133.2	124.1	112.0	95.9	84.8	73.2	69.6	70.1
125°	142.3	146.8	138.3	126.7	114.5	102.9	89.3	79.2	72.2	69.6	69.1
127.5°	128.7	127.7	116.6	108.0	99.4	89.8	81.2	75.2	70.1	67.1	65.6
130°	113.5	113.0	108.5	101.4	92.8	84.3	76.7	72.7	67.6	63.6	62.6
132.5°	119.6	118.1	108.5	96.9	87.3	80.2	75.2	70.6	63.6	59.0	58.5
135°	113.0	112.0	102.4	90.8	82.3	78.7	75.2	68.6	60.0	56.5	56.0
137.5°	103.4	99.4	91.3	84.3	80.2	79.2	74.7	67.1	59.0	55.0	54.5
140°	98.4	95.4	89.3	84.8	80.2	74.7	68.1	61.1	55.5	52.5	52.0
142.5°	104.5	103.4	94.4	86.3	79.2	72.7	65.6	61.1	55.0	51.0	50.5
145°	123.6	118.6	107.5	96.4	90.3	81.7	72.7	63.1	52.0	45.9	44.4
147.5°	135.2	130.7	119.6	107.5	94.4	80.7	66.6	54.5	45.9	41.4	40.4
150°	112.0	110.0	102.9	91.8	80.7	68.1	56.5	47.9	42.4	39.4	39.4
152.5°	78.7	78.2	75.2	68.6	61.6	54.5	48.4	43.4	40.4	38.4	38.4
155°	69.6	68.6	66.6	60.6	55.5	49.5	44.9	41.9	39.9	38.4	38.4
157.5°	60.0	59.0	58.5	54.0	50.0	45.9	42.4	39.9	38.4	37.3	36.8
160°	53.5	52.0	50.5	47.9	45.4	43.4	41.9	39.9	38.4	37.3	37.3
162.5°	50.0	48.9	46.4	44.4	43.4	43.4	43.9	42.9	39.9	38.4	37.8
165°	50.0	48.4	44.9	42.9	42.9	45.4	47.9	45.9	43.4	40.4	39.9
167.5°	50.5	49.5	45.9	44.4	45.9	48.9	51.5	51.0	47.4	44.9	44.9
170°	46.9	46.4	46.9	48.4	50.0	50.5	51.5	51.0	52.0	55.5	55.5
172.5°	45.4	45.9	48.4	51.0	54.0	54.0	51.5	51.0	55.5	60.6	61.6
175°	47.4	48.4	51.0	54.0	56.5	56.5	54.0	54.5	59.0	63.6	64.6
177.5°	45.4	45.9	46.9	46.4	47.4	44.9	45.9	44.9	46.4	46.4	46.4
180°	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8

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

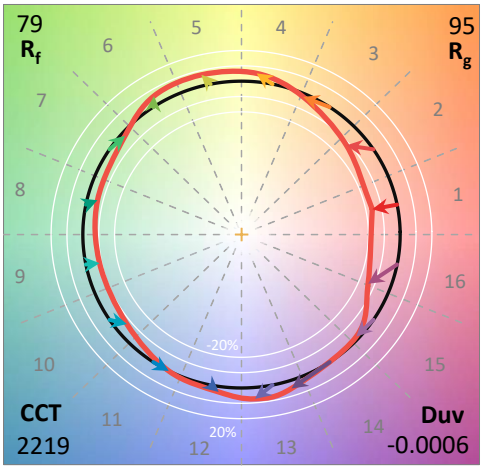
Test Information

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

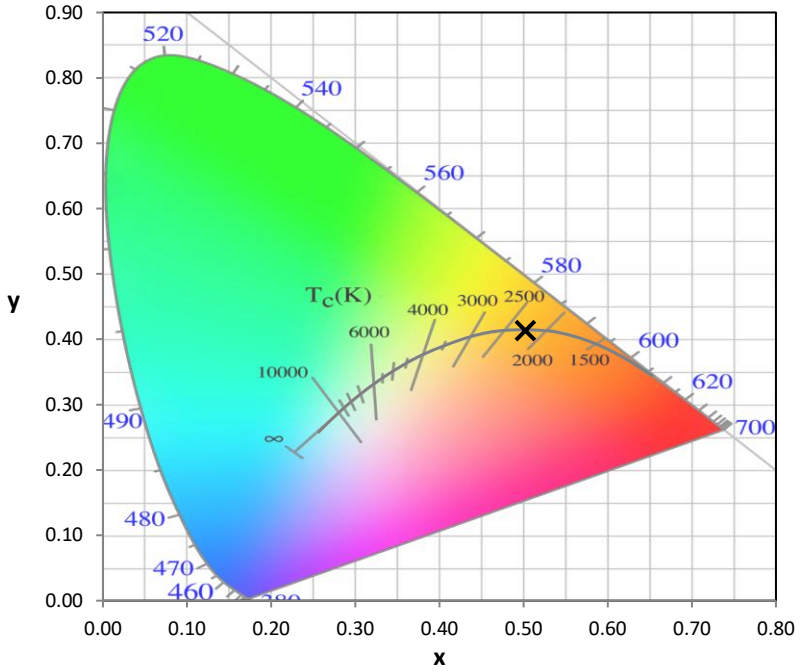
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

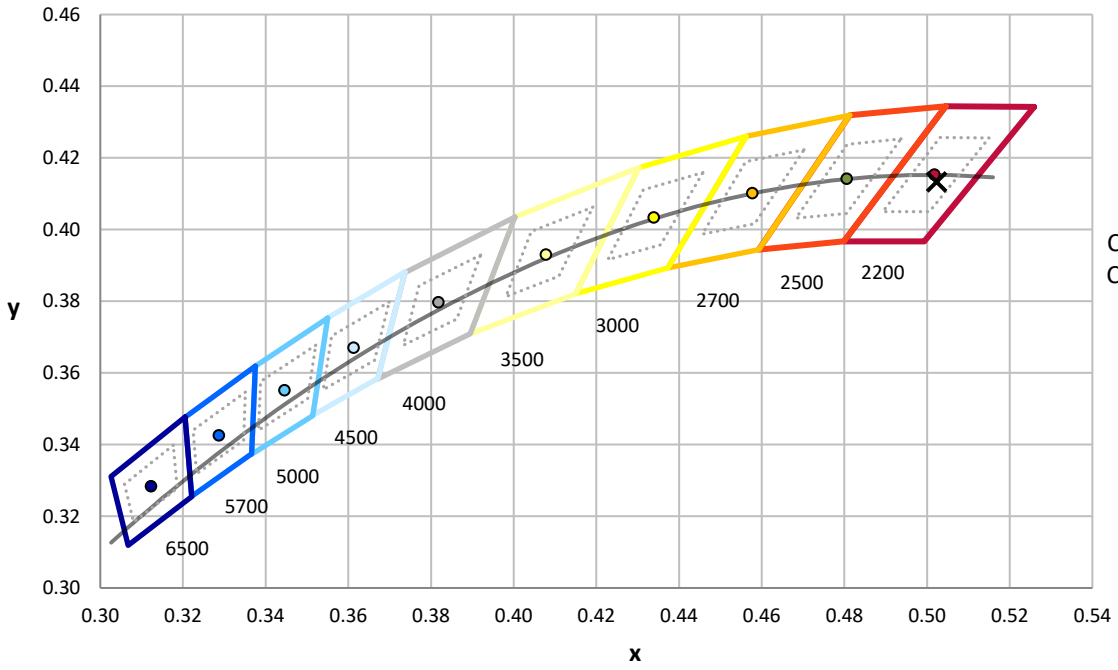
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

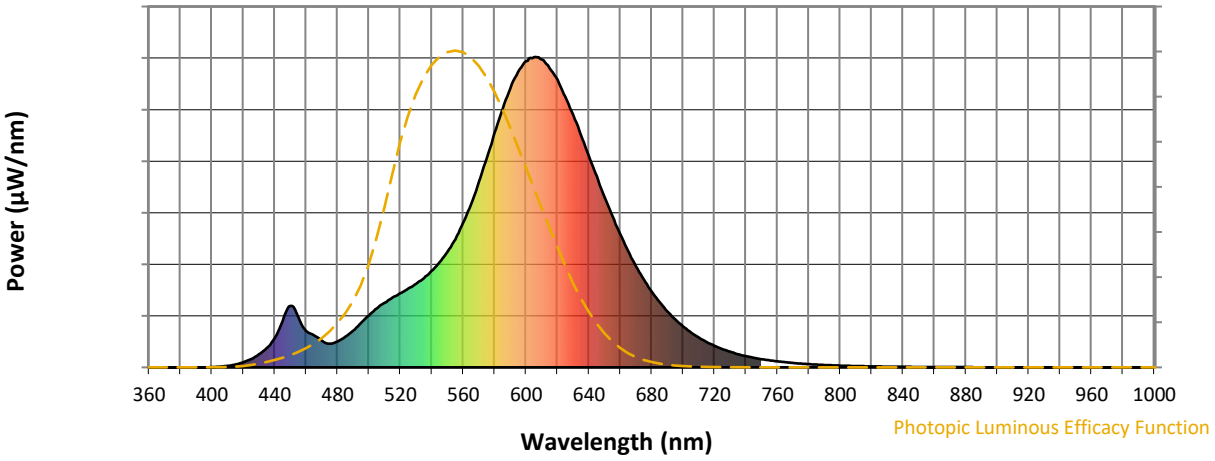


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

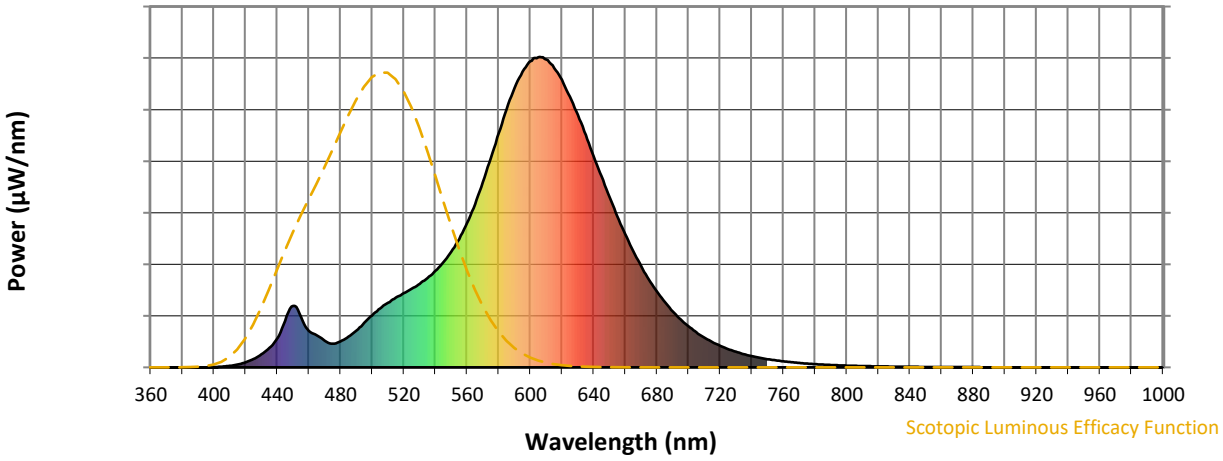


Photopic Lumens: NR

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

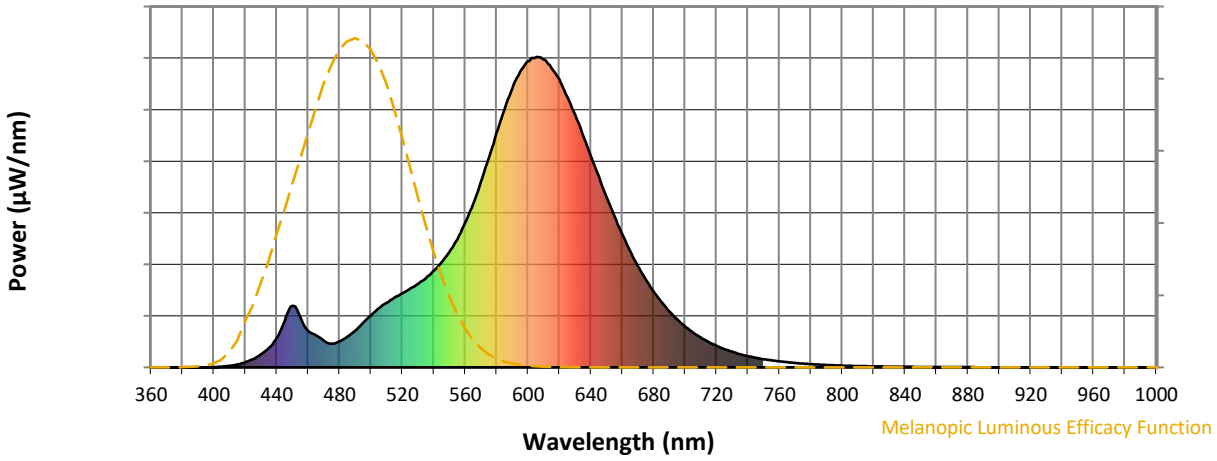


Scotopic Lumens: NR **S/P: 0.94**

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			

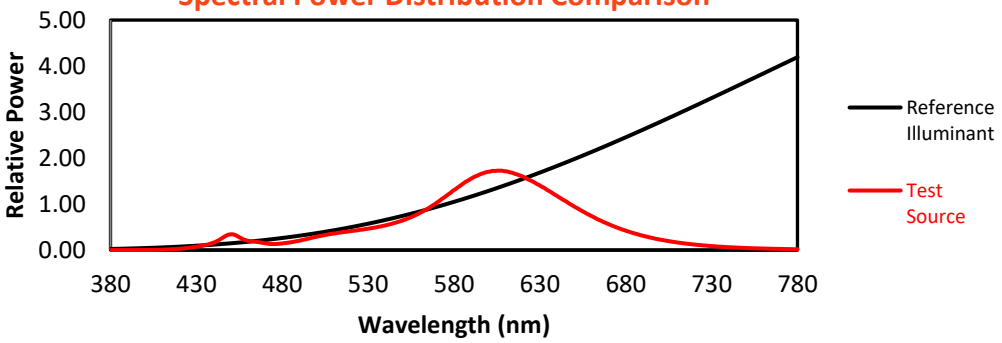
REPORT NUMBER: SP1-2501-332-2

TM-30-18

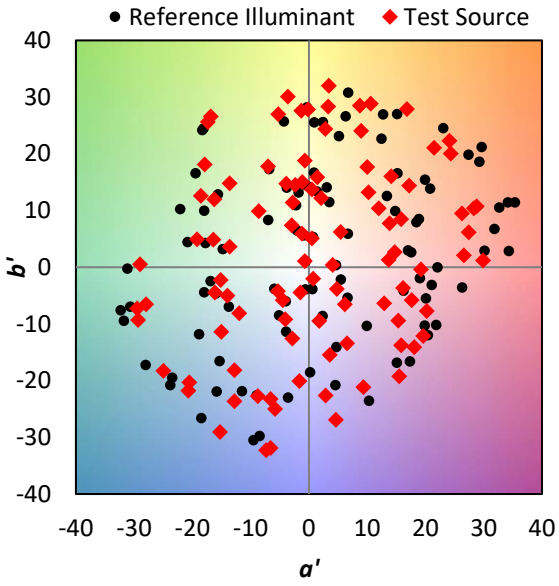
Summary

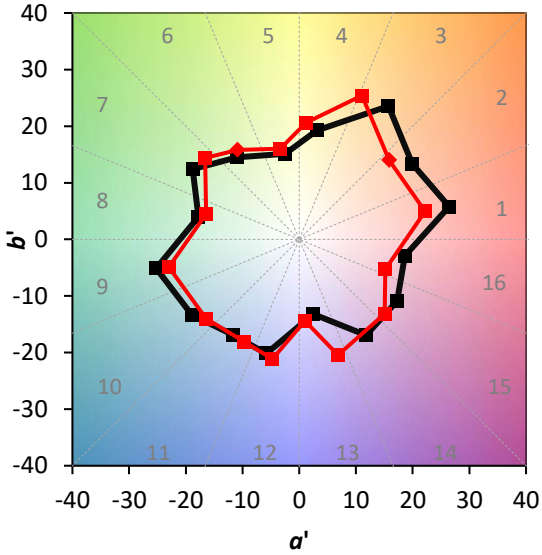
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

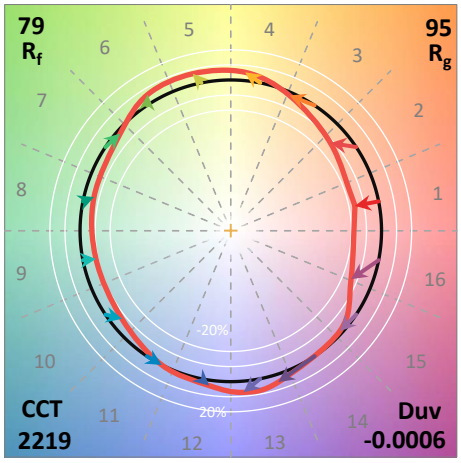
Spectral Power Distribution Comparison

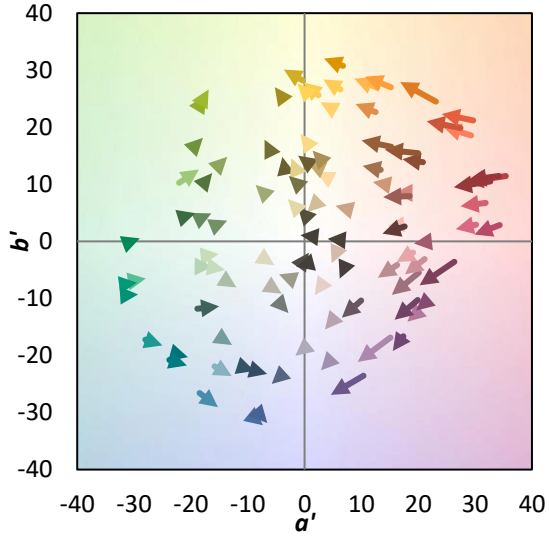


Color Vector Graphics







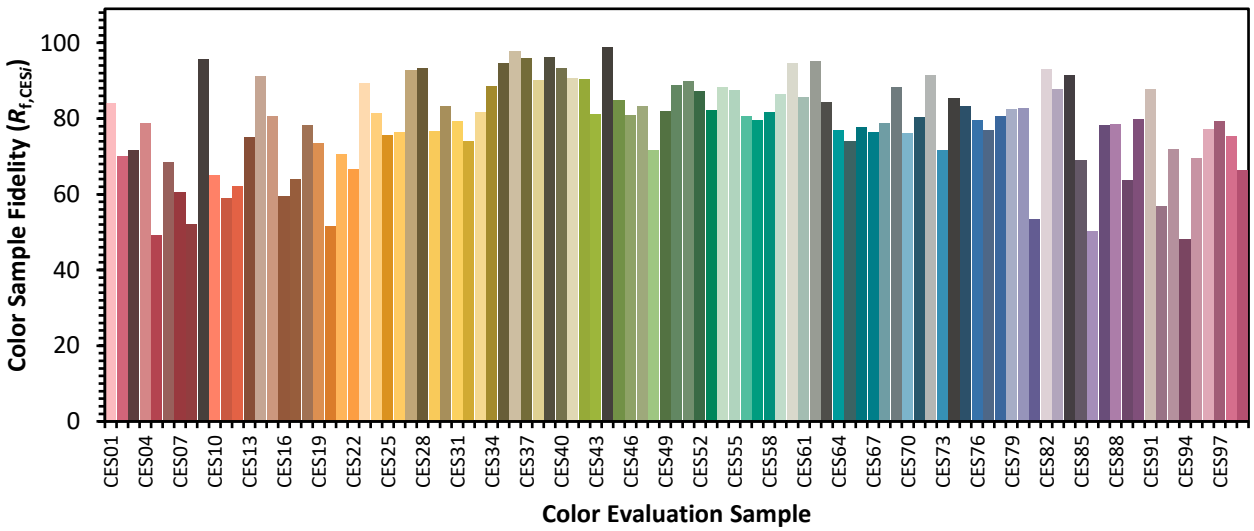


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

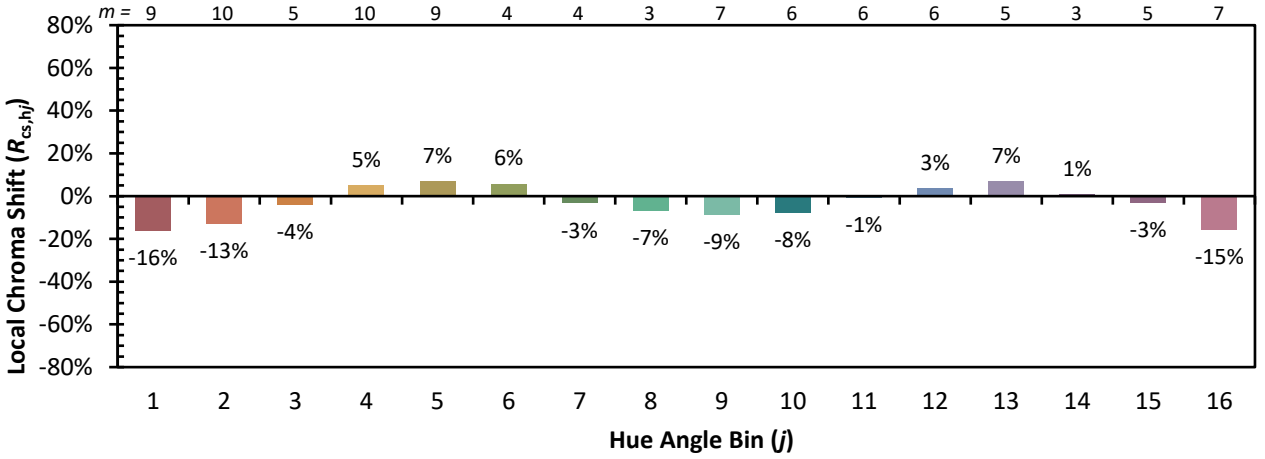
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 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	

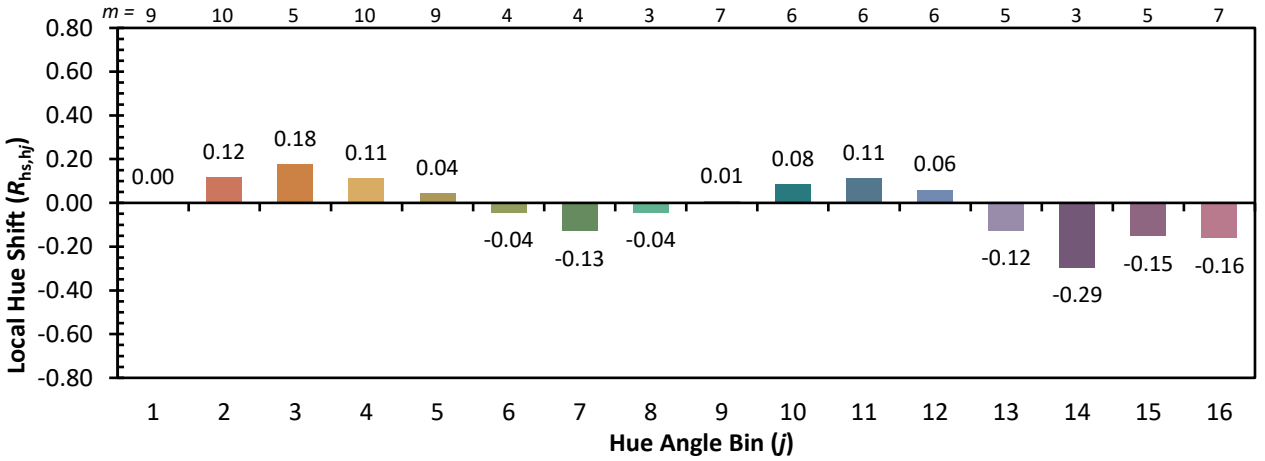


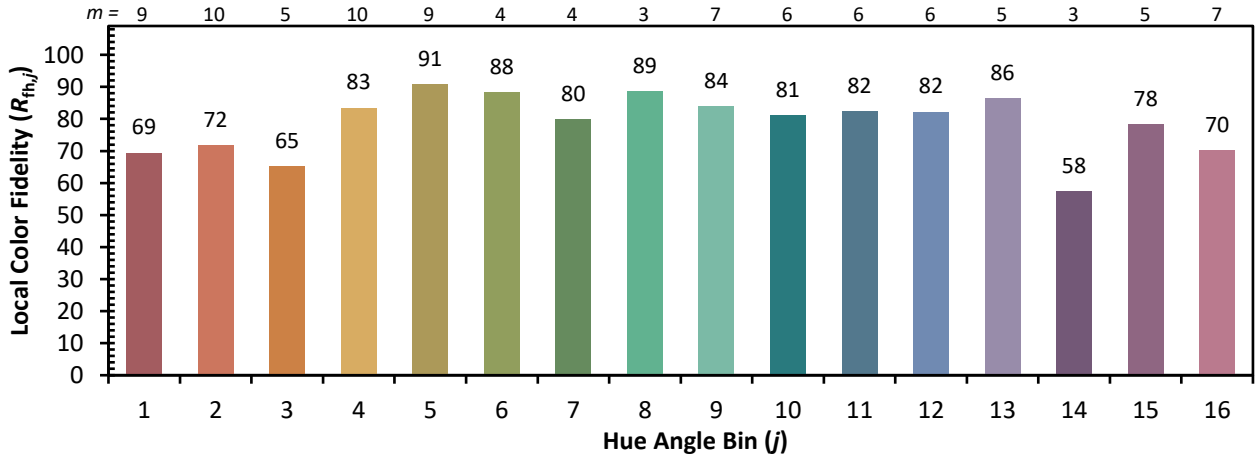
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Color Rendition by Hue-Angle Bin



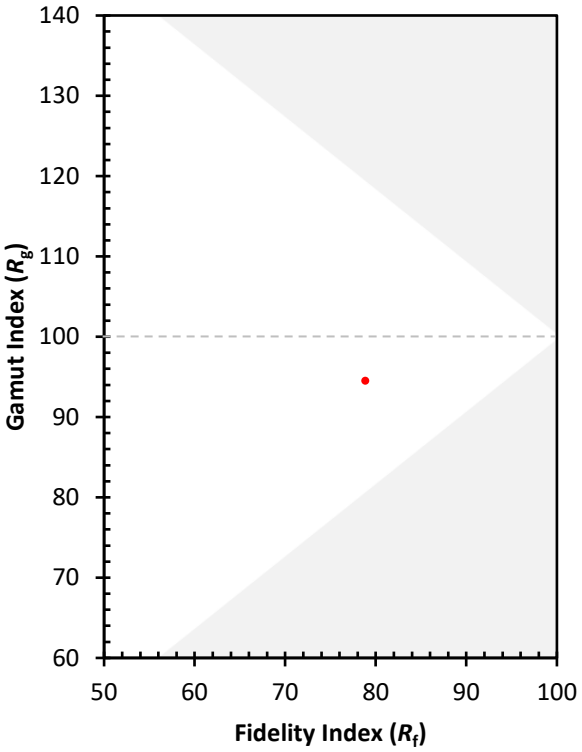


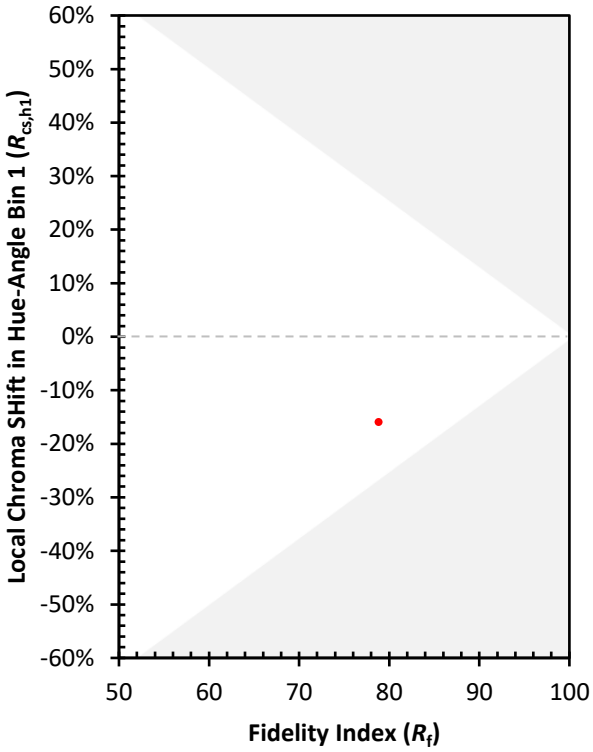


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Measure Comparisons





(END OF REPORT)