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: P1046446

Luminaire Tested: **FFX-CLB-70-750-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:	P1046446
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-750-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11237.2 lumens
Efficiency:	N/A
Efficacy:	157.8 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):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

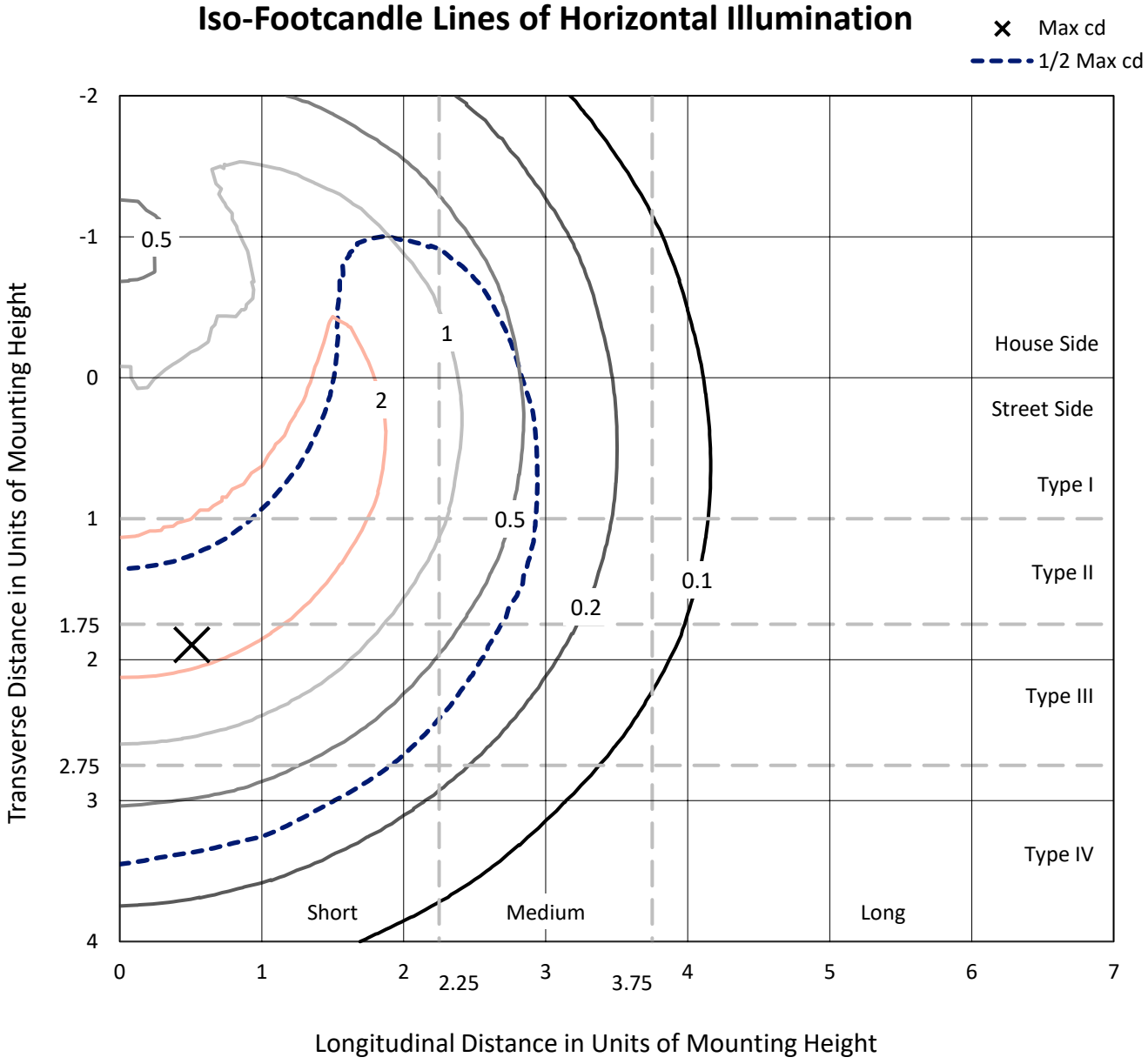


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REPORT NUMBER: P1046446
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Iso-Footcandle Lines of Horizontal Illumination



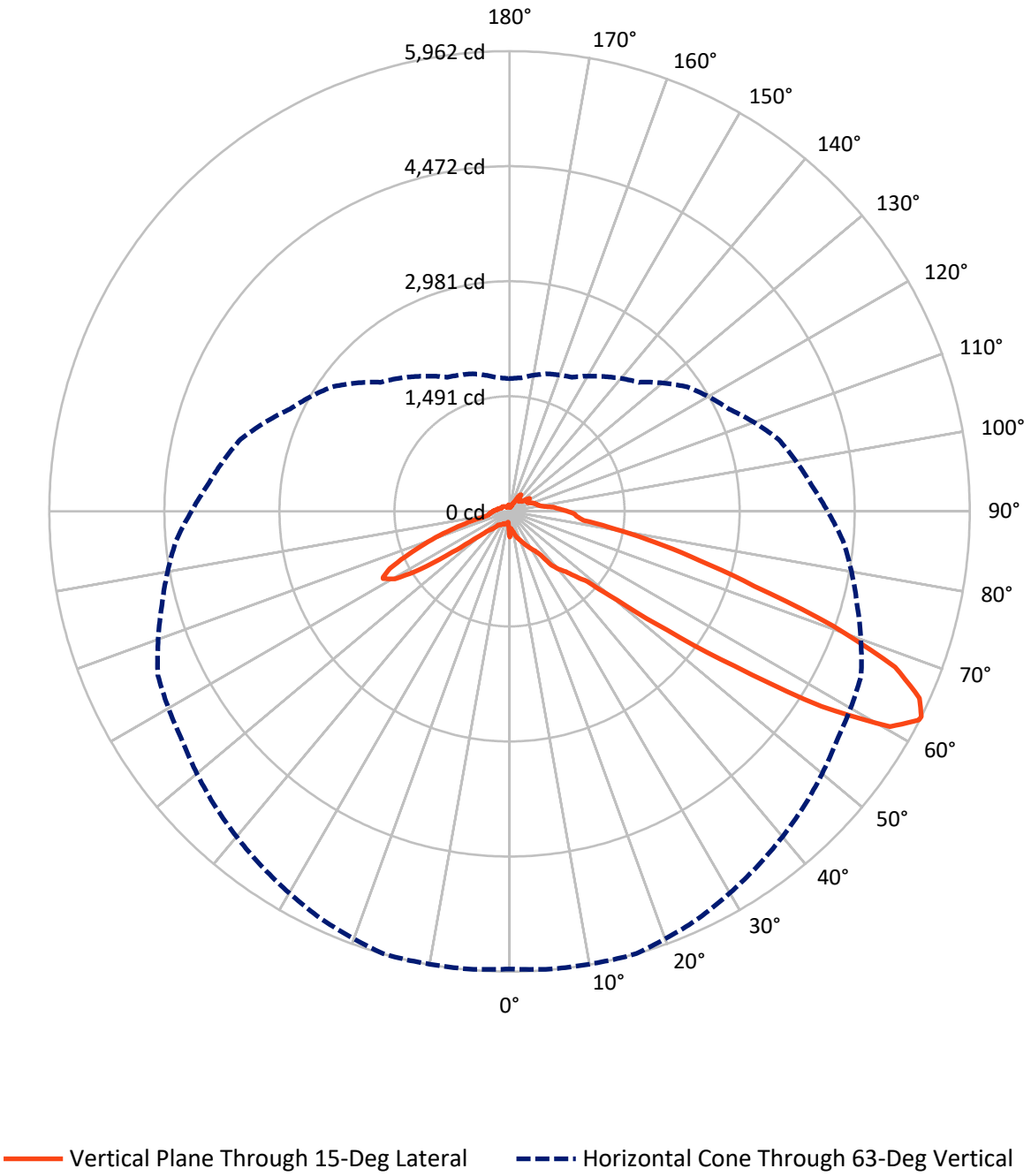
Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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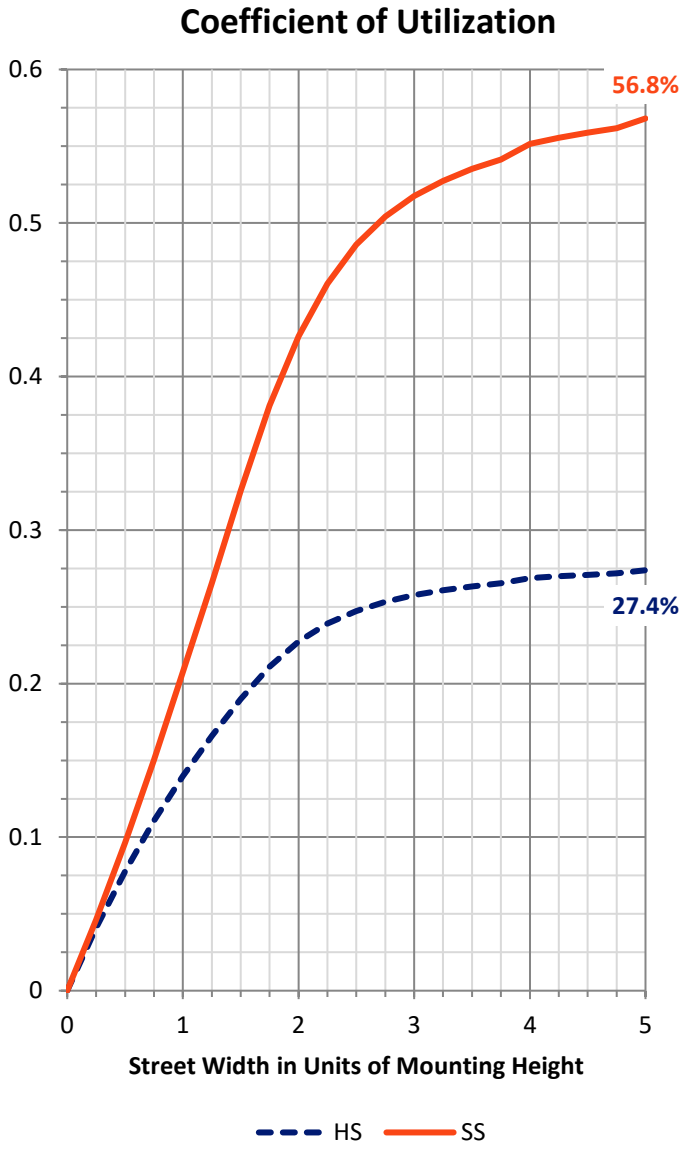
REPORT NUMBER: P1046446
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3178.1	517.8	3695.9
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	6654.4	887.0	7541.4
	% Fixture	59.2	7.9	67.1
Total	Lumens	9832.4	1404.8	11237.2
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	0.2
10°-20°	73.6	0.7
20°-30°	159.4	1.4
30°-40°	327.7	2.9
40°-50°	675.8	6.0
50°-60°	2223.0	19.8
60°-70°	3680.7	32.8
70°-80°	1930.5	17.2
80°-90°	741.3	6.6
90°-100°	447.8	4.0
100°-110°	282.1	2.5
110°-120°	208.9	1.9
120°-130°	177.8	1.6
130°-140°	115.9	1.0
140°-150°	100.8	0.9
150°-160°	46.1	0.4
160°-170°	18.9	0.2
170°-180°	6.5	0.1
0°-90°	9832.4	87.5
0°-180°	11237.2	100.0



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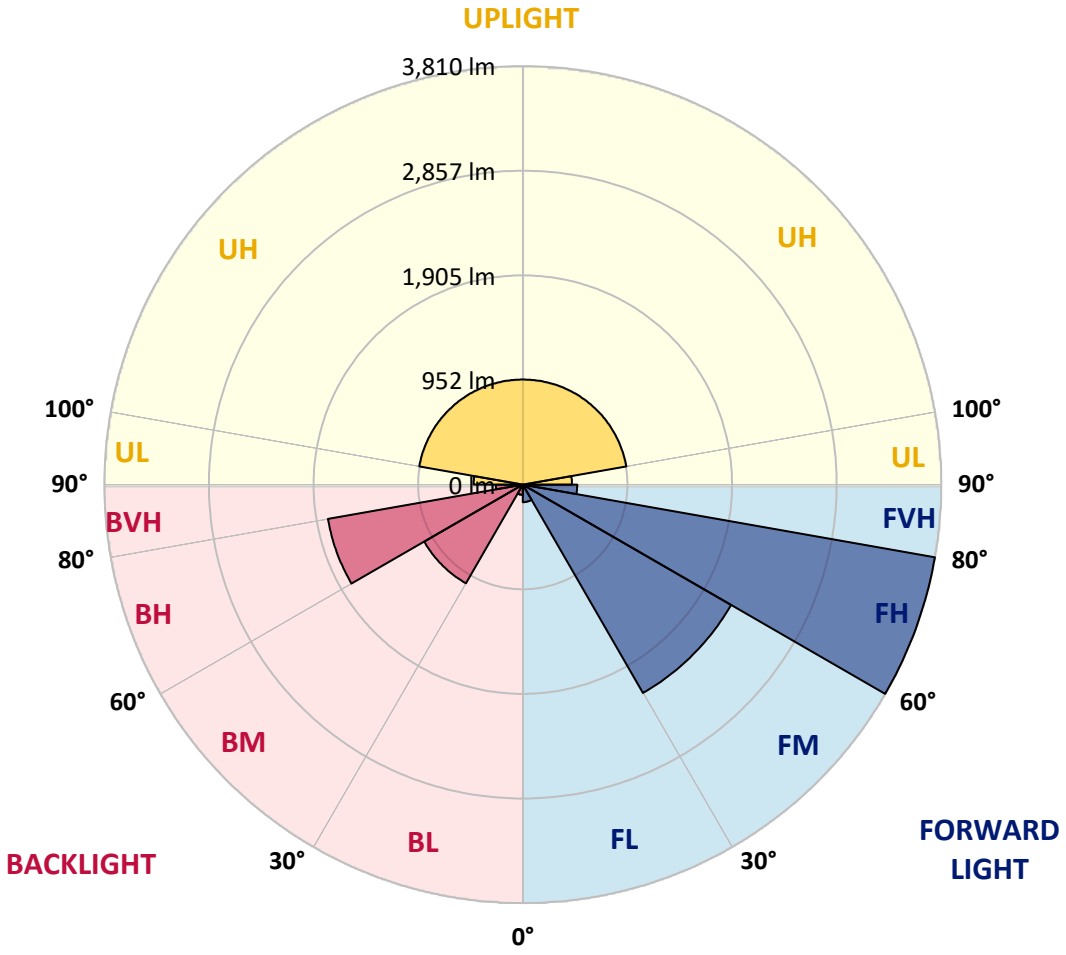
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	159.9	1.4			
FM	(30°-60°)	2189.6	19.5			
FH	(60°-80°)	3809.6	33.9			G2/5000
FVH	(80°-90°)	495.3	4.4			G3/500
BL	(0°-30°)	93.5	0.8	B0/110		
BM	(30°-60°)	1036.9	9.2	B2/2500		
BH	(60°-80°)	1801.6	16.0	B3/2500		G3/2500
BVH	(80°-90°)	246.0	2.2			G3/500
UL	(90°-100°)	447.8	4.0		U3/500	
UH	(100°-180°)	957.0	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°	331.9	331.9	331.9	331.9	331.9	331.9	331.9	331.9	331.9	331.9	331.9
2.5°	204.3	204.3	233.8	239.0	267.0	275.8	260.3	248.5	277.3	336.3	345.9
5°	222.0	226.4	225.7	224.9	226.4	253.0	280.3	267.7	219.8	174.8	174.8
7.5°	251.5	253.0	252.2	251.5	241.9	226.4	219.8	239.7	252.2	214.6	180.0
10°	272.1	270.7	269.9	269.2	270.7	276.6	274.4	250.0	225.7	213.1	205.8
12.5°	311.2	312.0	309.8	308.3	306.8	304.6	302.4	307.5	294.3	258.1	233.8
15°	340.7	340.7	346.6	345.2	345.2	337.8	327.5	312.7	295.0	285.4	264.0
17.5°	371.7	372.4	371.7	371.7	368.8	359.2	348.1	334.8	316.4	300.2	281.7
20°	401.9	401.9	401.2	400.5	399.7	392.4	378.3	360.6	343.7	328.2	309.0
22.5°	433.7	435.9	437.3	435.9	433.7	426.3	410.8	393.8	377.6	355.5	334.8
25°	478.6	479.4	477.9	476.4	473.5	463.9	452.1	434.4	414.5	390.9	363.6
27.5°	521.4	522.9	522.2	522.2	516.3	508.1	496.3	472.7	450.6	423.3	395.3
30°	570.1	568.6	564.9	565.7	562.0	555.3	542.1	521.4	493.4	460.9	430.0
32.5°	618.0	618.0	612.9	610.7	610.7	601.8	587.1	565.7	539.1	504.5	474.2
35°	670.4	683.7	696.9	702.1	702.1	689.6	671.9	643.8	621.0	584.8	547.2
37.5°	921.9	913.8	881.3	885.0	873.9	868.8	857.0	833.4	801.7	746.4	688.8
40°	1010.4	1008.9	984.6	981.6	976.5	959.5	947.0	930.7	919.7	853.3	767.0
42.5°	1025.9	1034.0	1066.4	1074.5	1116.6	1090.8	1040.6	949.2	926.3	876.2	840.0
45°	1199.9	1202.9	1202.9	1204.3	1193.3	1174.1	1167.5	1109.2	1063.5	991.2	923.4
47.5°	1373.2	1379.9	1354.1	1374.7	1403.5	1364.4	1346.7	1298.7	1236.1	1180.0	1068.6
50°	1775.9	1801.7	1806.9	1807.6	1820.2	1817.2	1790.7	1724.3	1661.6	1533.3	1409.4
52.5°	2521.5	2546.6	2557.7	2531.1	2492.0	2474.3	2481.0	2453.7	2308.4	2170.5	1919.0
55°	3495.0	3538.5	3538.5	3566.6	3554.8	3470.7	3465.5	3287.1	3052.5	2899.1	2680.1
57.5°	4797.5	4731.8	4768.7	4808.5	4727.4	4638.9	4506.9	4320.3	3977.4	3712.6	3395.5
60°	5762.9	5736.3	5663.3	5618.3	5415.5	5240.0	5136.0	4999.5	4739.2	4391.1	3967.0
62.5°	5939.9	5959.0	5953.9	5953.9	5791.6	5581.4	5371.2	5171.4	5009.9	4651.4	4315.9
63°	5928.8	5952.4	5962.0	5959.0	5813.0	5605.8	5397.1	5176.5	5026.8	4661.0	4336.5
65°	5834.4	5854.3	5837.3	5831.4	5739.3	5599.1	5364.6	5146.3	5009.9	4618.3	4339.5
67.5°	5455.3	5450.9	5387.5	5416.2	5358.0	5279.8	5060.8	4845.4	4751.0	4323.3	4066.6
70°	4405.9	4374.9	4444.2	4485.5	4422.1	4391.1	4130.8	3989.2	3867.5	3542.2	3335.0
72.5°	3368.2	3304.0	3315.8	3353.4	3273.8	3252.4	3141.0	3024.5	2966.2	2763.4	2533.3
75°	2641.0	2606.3	2542.2	2552.5	2486.9	2465.5	2453.7	2419.8	2396.9	2228.0	2000.1
77.5°	1975.0	1973.6	1919.7	1911.6	1864.4	1899.8	1885.8	1936.7	1925.6	1791.4	1618.1
80°	1382.1	1374.0	1388.0	1382.8	1371.8	1392.4	1370.3	1398.3	1398.3	1310.5	1237.5
82.5°	902.0	918.2	962.4	972.8	989.0	1037.7	959.5	918.2	907.1	897.5	862.1
85°	895.3	899.8	880.6	882.8	875.4	857.0	871.0	877.6	866.6	813.5	735.3
87.5°	843.7	849.6	834.1	838.5	811.3	817.2	826.0	831.2	826.0	778.8	713.9
90°	711.0	717.6	731.6	731.6	733.8	735.3	721.3	729.4	724.2	679.2	632.0
92.5°	630.6	636.5	637.2	637.9	632.0	651.2	628.4	614.3	610.7	574.5	540.6
95°	576.7	570.1	568.6	570.1	567.1	566.4	551.7	541.3	536.9	508.1	475.0
97.5°	451.4	455.0	453.6	457.3	449.9	449.1	436.6	423.3	418.9	395.3	373.2
100°	396.0	395.3	396.8	397.5	393.1	387.9	379.1	369.5	364.3	346.6	325.2
102.5°	371.7	371.0	373.9	374.7	371.0	367.3	359.9	354.0	349.6	333.4	309.8
105°	356.2	354.0	357.7	357.7	349.6	347.4	342.2	341.5	338.5	319.3	296.5
107.5°	334.8	331.1	335.6	334.8	331.9	329.7	325.2	322.3	320.1	303.9	278.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	314.9	309.8	*312.0*	313.4	315.7	314.2	310.5	304.6	298.7	285.4	264.0
112.5°	278.0	281.0	*280.3*	280.3	282.5	283.2	276.6	272.9	269.2	258.9	244.9
115°	264.0	264.0	*264.0*	264.0	258.1	255.9	249.3	244.9	244.1	231.6	222.7
117.5°	253.0	254.4	*258.1*	260.3	267.7	263.3	248.5	239.0	235.3	230.1	220.5
120°	298.0	292.8	*287.6*	286.9	287.6	284.7	281.7	275.1	266.2	252.2	225.7
122.5°	319.3	306.1	*308.3*	307.5	302.4	304.6	305.3	306.1	300.2	278.0	236.7
125°	267.7	264.0	*266.2*	268.5	269.2	268.5	267.0	273.6	265.5	258.1	227.2
127.5°	213.9	212.4	*208.0*	207.2	205.8	206.5	206.5	208.7	201.3	194.0	192.5
130°	203.6	200.6	*201.3*	202.1	201.3	196.9	194.0	190.3	189.5	182.2	171.8
132.5°	184.4	185.9	*198.4*	199.9	208.7	203.6	188.1	177.7	179.2	182.9	179.2
135°	172.6	171.8	*181.4*	182.2	195.4	191.8	179.2	167.4	167.4	176.3	172.6
137.5°	176.3	177.7	*178.5*	179.2	178.5	177.7	177.0	171.8	168.2	167.4	158.6
140°	189.5	188.8	*181.4*	182.2	181.4	181.4	185.9	189.5	177.0	165.9	151.2
142.5°	198.4	200.6	*197.7*	201.3	208.0	202.1	194.7	185.1	177.7	170.4	161.5
145°	269.2	264.0	*261.8*	260.3	255.9	243.4	236.0	226.4	217.6	205.8	191.0
147.5°	244.1	245.6	*241.2*	242.6	236.7	232.3	230.8	231.6	228.6	222.0	206.5
150°	194.0	195.4	*191.0*	188.8	186.6	186.6	186.6	188.1	184.4	180.0	172.6
152.5°	135.7	134.2	*132.8*	132.0	130.5	129.1	129.1	129.8	126.1	124.6	118.7
155°	124.6	123.9	*118.0*	116.5	118.0	119.5	120.2	118.0	115.1	112.1	104.0
157.5°	97.4	95.1	*94.4*	95.9	95.9	95.1	93.7	95.1	92.2	91.5	90.0
160°	79.7	78.9	*79.7*	79.7	80.4	80.4	79.7	79.7	78.2	78.9	78.9
162.5°	67.9	67.9	*67.9*	67.1	68.6	69.3	68.6	68.6	69.3	71.5	73.0
165°	58.3	58.3	*59.0*	59.0	59.7	59.7	60.5	61.2	62.7	67.9	72.3
167.5°	54.6	54.6	*55.3*	55.3	56.1	56.8	58.3	61.2	65.6	71.5	73.8
170°	53.8	53.8	*53.8*	53.8	54.6	55.3	58.3	62.7	67.9	71.5	69.3
172.5°	56.1	56.1	*56.8*	56.8	56.8	59.7	62.0	65.6	68.6	69.3	67.1
175°	58.3	57.5	*58.3*	58.3	59.0	61.2	64.2	65.6	67.1	67.9	68.6
177.5°	56.8	56.8	*56.8*	57.5	57.5	58.3	59.7	60.5	62.0	63.4	65.6
180°	55.3	55.3	*55.3*	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	331.9	331.9	331.9	331.9	331.9	331.9	331.9	331.9	331.9	331.9	331.9
2.5°	345.9	336.3	261.8	224.2	255.9	317.9	323.8	280.3	217.6	151.2	137.9
5°	184.4	194.7	217.6	216.8	202.1	188.8	172.6	162.3	179.2	171.8	176.3
7.5°	166.7	157.1	160.8	188.1	183.6	139.4	126.1	123.2	137.9	171.8	168.2
10°	202.8	199.9	188.8	166.7	159.3	165.2	170.4	166.7	153.4	133.5	130.5
12.5°	229.4	225.7	227.2	241.2	224.2	185.9	164.5	157.8	165.2	194.7	200.6
15°	255.2	248.5	239.0	219.0	202.8	192.5	180.0	166.7	171.1	163.0	160.0
17.5°	272.9	262.6	242.6	227.9	211.7	198.4	187.3	173.3	163.7	161.5	162.3
20°	296.5	285.4	264.0	247.1	227.2	209.5	190.3	175.5	165.9	162.3	162.3
22.5°	323.8	310.5	286.2	262.6	240.4	217.6	194.7	178.5	169.6	165.9	164.5
25°	352.5	339.3	309.0	283.9	255.9	230.8	207.2	186.6	177.0	172.6	168.9
27.5°	382.0	365.8	335.6	304.6	274.4	244.9	219.8	198.4	185.1	177.7	178.5
30°	414.5	401.2	367.3	331.9	294.3	259.6	235.3	210.9	194.7	186.6	187.3
32.5°	458.0	436.6	396.0	355.5	318.6	280.3	249.3	221.3	203.6	198.4	199.1
35°	530.3	503.0	453.6	398.3	348.8	303.9	264.8	231.6	210.9	202.8	202.1
37.5°	660.8	623.9	567.1	502.2	430.7	357.7	294.3	243.4	217.6	204.3	202.1
40°	724.2	674.1	602.5	546.5	497.8	435.1	362.9	286.2	228.6	211.7	209.5
42.5°	809.0	767.0	674.1	564.9	500.0	447.7	396.8	347.4	275.8	231.6	223.5
45°	890.9	853.3	780.3	673.3	576.7	494.9	418.9	365.1	320.8	275.8	272.1
47.5°	1028.8	989.0	867.3	772.2	670.4	577.5	497.8	409.3	351.8	320.1	320.1
50°	1374.7	1301.7	1181.5	1035.5	871.7	721.3	608.4	500.0	430.7	382.8	380.6
52.5°	1857.8	1754.5	1577.5	1416.0	1222.8	1048.7	873.2	684.4	583.4	514.0	513.3
55°	2555.5	2450.0	2213.3	1902.8	1666.0	1458.0	1275.9	1068.6	909.3	797.2	788.4
57.5°	3299.6	3211.1	2969.9	2584.2	2211.0	1843.0	1622.5	1457.3	1380.6	1302.4	1286.2
60°	3781.9	3630.0	3410.2	3042.2	2680.8	2211.8	1938.2	1748.6	1722.8	1705.8	1684.5
62.5°	4085.8	3906.6	3579.8	3138.8	2806.9	2363.0	2118.1	1916.0	1855.6	1764.8	1739.0
63°	*4120.4*	*3925.7*	*3607.1*	*3136.6*	*2810.6*	*2365.2*	*2131.4*	*1916.0*	*1845.2*	*1736.1*	*1719.1*
65°	4104.2	3923.5	3605.7	3090.9	2725.1	2321.7	2093.0	1828.3	1715.4	1570.9	1542.1
67.5°	3856.4	3663.9	3364.5	2858.6	2528.2	2116.6	1865.1	1584.2	1413.1	1271.5	1238.3
70°	3139.6	3020.1	2756.8	2319.5	2068.7	1747.9	1527.4	1306.9	1121.7	972.8	935.2
72.5°	2392.5	2267.1	2069.4	1785.5	1600.4	1379.9	1171.2	1001.5	848.9	750.0	753.0
75°	1898.3	1778.9	1615.9	1429.3	1278.1	1081.9	875.4	707.3	598.9	539.9	534.7
77.5°	1528.8	1446.2	1303.9	1132.1	1001.5	796.5	612.9	466.1	385.7	351.8	342.2
80°	1178.5	1121.0	1014.8	863.6	727.9	559.8	417.4	329.7	286.9	258.1	253.0
82.5°	838.5	803.9	715.4	609.9	517.7	430.0	365.8	308.3	264.0	239.7	232.3
85°	699.9	667.4	611.4	545.8	486.8	422.6	354.7	293.5	252.2	233.1	223.5
87.5°	679.2	649.0	595.2	525.1	460.9	391.6	323.0	265.5	236.0	217.6	211.7
90°	608.4	585.6	538.4	474.2	410.1	339.3	279.5	239.0	216.1	201.3	194.7
92.5°	524.4	504.5	465.4	411.5	357.7	306.8	261.1	227.2	204.3	189.5	184.4
95°	455.8	443.2	410.8	365.1	326.0	283.9	244.9	212.4	188.8	175.5	170.4
97.5°	363.6	348.8	325.2	293.5	264.0	234.5	205.8	183.6	166.7	157.8	153.4
100°	316.4	306.8	285.4	260.3	235.3	209.5	187.3	170.4	159.3	151.9	148.2
102.5°	298.0	291.3	271.4	246.3	222.7	197.7	175.5	160.0	151.9	145.3	142.3
105°	281.0	275.8	260.3	237.5	214.6	187.3	162.3	149.0	141.6	137.2	135.0
107.5°	263.3	257.4	242.6	220.5	200.6	177.0	154.9	138.7	129.1	123.9	123.2

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

Scaled Data Report

REPORT NUMBER: P1046446
CATALOG NUMBER: FFX-CLB-70-750-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	248.5	244.1	227.9	210.2	191.0	168.9	149.7	132.8	121.7	115.8	115.1
112.5°	233.1	227.9	211.7	194.7	178.5	159.3	142.3	127.6	117.3	111.4	110.6
115°	212.4	208.0	196.2	180.0	166.7	148.2	134.2	121.0	112.8	106.9	106.2
117.5°	214.6	202.1	185.9	171.1	159.3	146.0	133.5	123.2	110.6	104.0	104.0
120°	217.6	205.8	189.5	177.0	170.4	160.0	140.9	126.1	109.2	102.5	101.8
122.5°	214.6	216.1	207.2	194.7	181.4	163.7	140.1	123.9	106.9	101.8	102.5
125°	208.0	214.6	202.1	185.1	167.4	150.5	130.5	115.8	105.5	101.8	101.0
127.5°	188.1	186.6	170.4	157.8	145.3	131.3	118.7	109.9	102.5	98.1	95.9
130°	165.9	165.2	158.6	148.2	135.7	123.2	112.1	106.2	98.8	92.9	91.5
132.5°	174.8	172.6	158.6	141.6	127.6	117.3	109.9	103.3	92.9	86.3	85.6
135°	165.2	163.7	149.7	132.8	120.2	115.1	109.9	100.3	87.8	82.6	81.9
137.5°	151.2	145.3	133.5	123.2	117.3	115.8	109.2	98.1	86.3	80.4	79.7
140°	143.8	139.4	130.5	123.9	117.3	109.2	99.6	89.2	81.1	76.7	76.0
142.5°	152.7	151.2	137.9	126.1	115.8	106.2	95.9	89.2	80.4	74.5	73.8
145°	180.7	173.3	157.1	140.9	132.0	119.5	106.2	92.2	76.0	67.1	64.9
147.5°	197.7	191.0	174.8	157.1	137.9	118.0	97.4	79.7	67.1	60.5	59.0
150°	163.7	160.8	150.5	134.2	118.0	99.6	82.6	70.1	62.0	57.5	57.5
152.5°	115.1	114.3	109.9	100.3	90.0	79.7	70.8	63.4	59.0	56.1	56.1
155°	101.8	100.3	97.4	88.5	81.1	72.3	65.6	61.2	58.3	56.1	56.1
157.5°	87.8	86.3	85.6	78.9	73.0	67.1	62.0	58.3	56.1	54.6	53.8
160°	78.2	76.0	73.8	70.1	66.4	63.4	61.2	58.3	56.1	54.6	54.6
162.5°	73.0	71.5	67.9	64.9	63.4	63.4	64.2	62.7	58.3	56.1	55.3
165°	73.0	70.8	65.6	62.7	62.7	66.4	70.1	67.1	63.4	59.0	58.3
167.5°	73.8	72.3	67.1	64.9	67.1	71.5	75.2	74.5	69.3	65.6	65.6
170°	68.6	67.9	68.6	70.8	73.0	73.8	75.2	74.5	76.0	81.1	81.1
172.5°	66.4	67.1	70.8	74.5	78.9	78.9	75.2	74.5	81.1	88.5	90.0
175°	69.3	70.8	74.5	78.9	82.6	82.6	78.9	79.7	86.3	92.9	94.4
177.5°	66.4	67.1	68.6	67.9	69.3	65.6	67.1	65.6	67.9	67.9	67.9
180°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3

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: SP1-2501-332-5

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

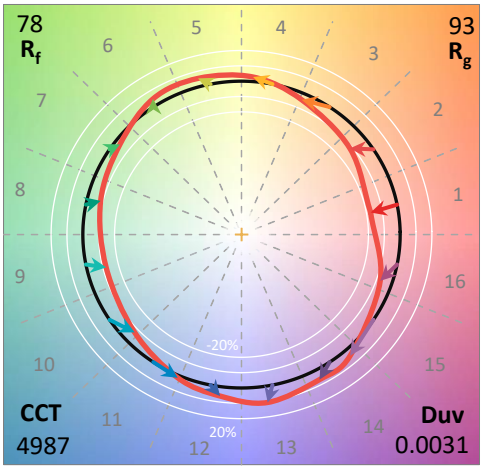
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-5
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-100-750-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	4987	CRI (Ra):	75.8		
CIE u':	0.2094	R1:	71.6	R9:	-30.4
CIE v':	0.4882	R2:	82.8	R10:	59.9
Duv:	0.0031	R3:	91.2	R11:	70.9
CIE x:	0.3461	R4:	73.8	R12:	51.2
CIE y:	0.3586	R5:	73.0	R13:	74.2
CIE z:	0.2954	R6:	76.1	R14:	95.3
Peak Wavelength (nm):	450	R7:	82.9	R15:	63.7
Dominant Wavelength (nm):	570	R8:	54.9		
Purity:	11.4				

Rf:	78.3
Rg:	93.4



Test Conditions

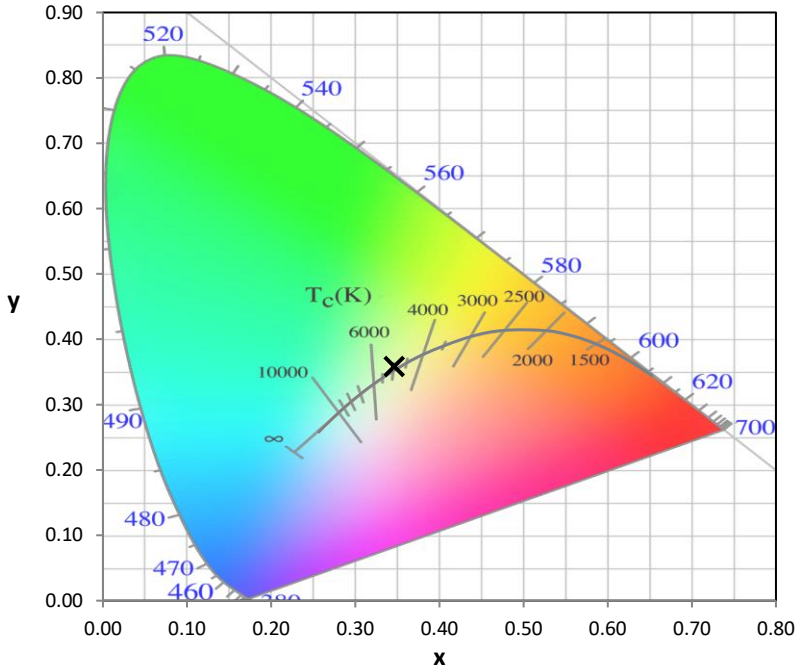
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

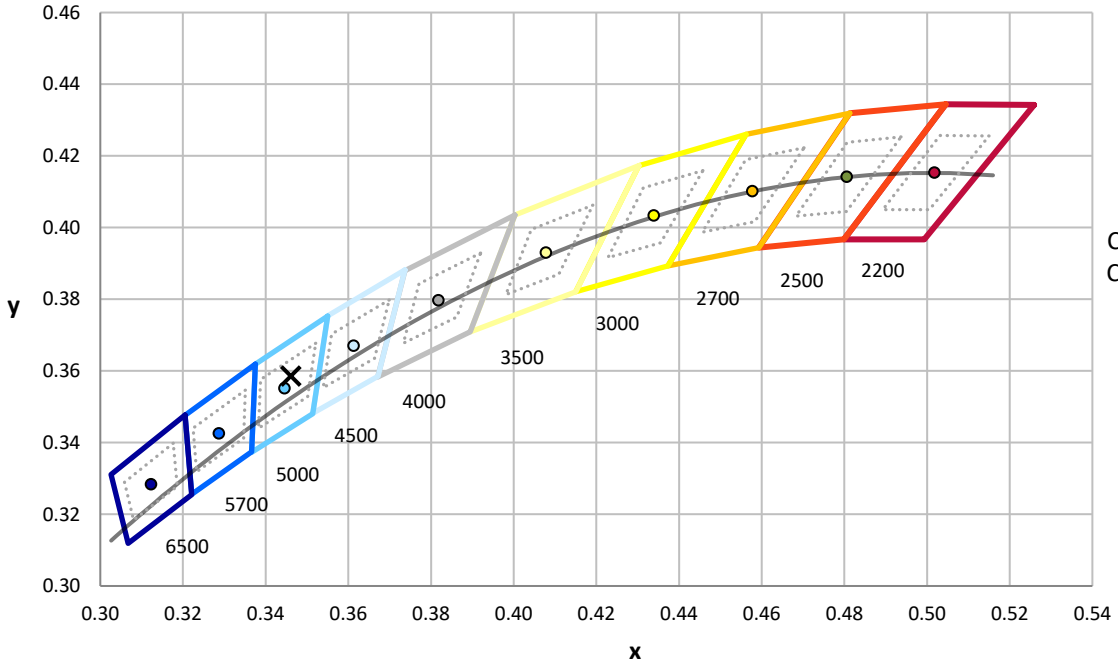
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-5

CIE 1931 Chromaticity Diagram



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

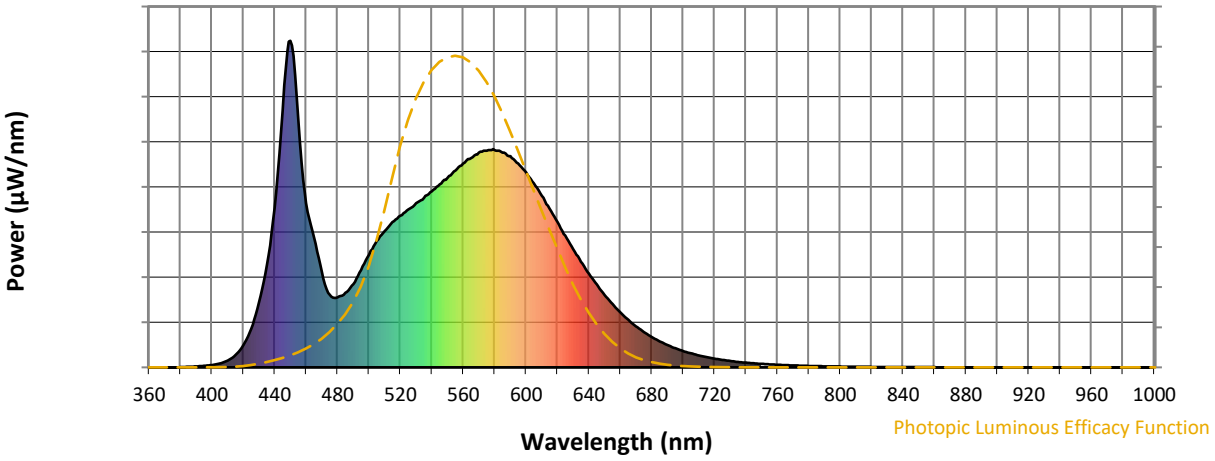


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

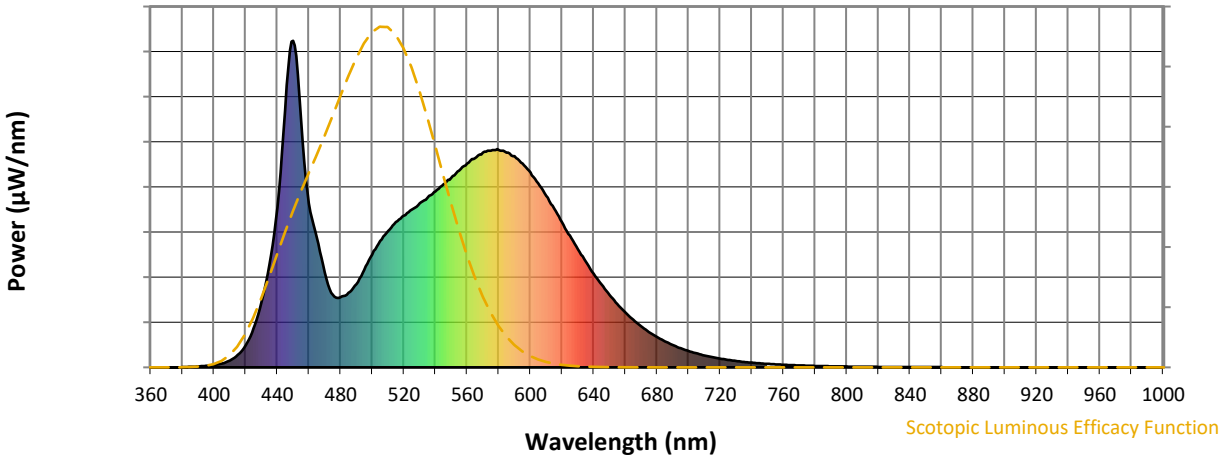


Photopic Lumens: NR

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Scotopic Flux vs. Wavelength

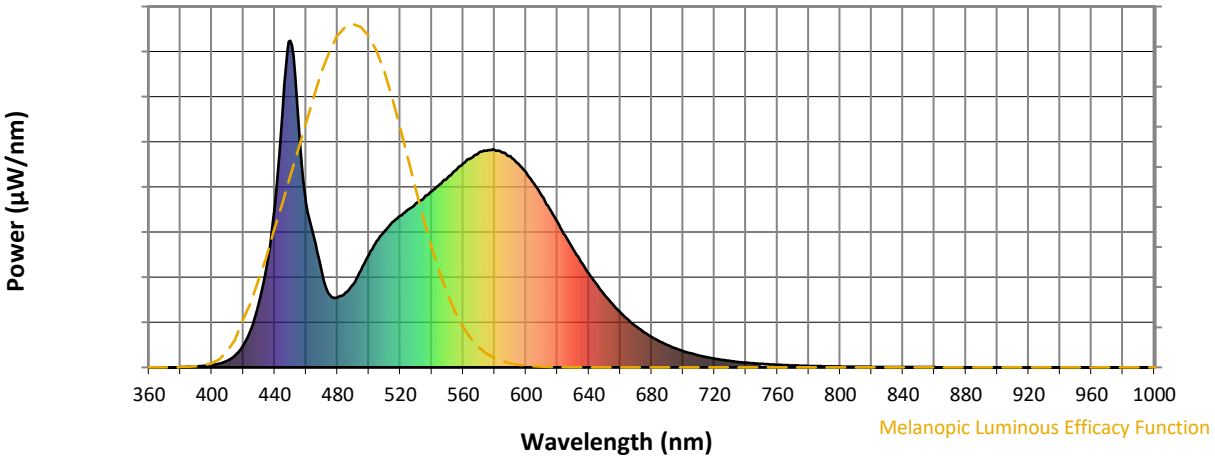


Scotopic Lumens: NR **S/P: 1.87**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.92**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

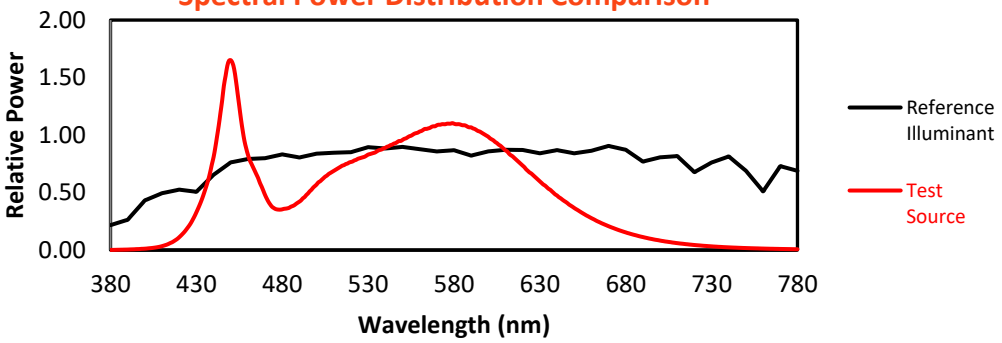
REPORT NUMBER: SP1-2501-332-5

TM-30-18

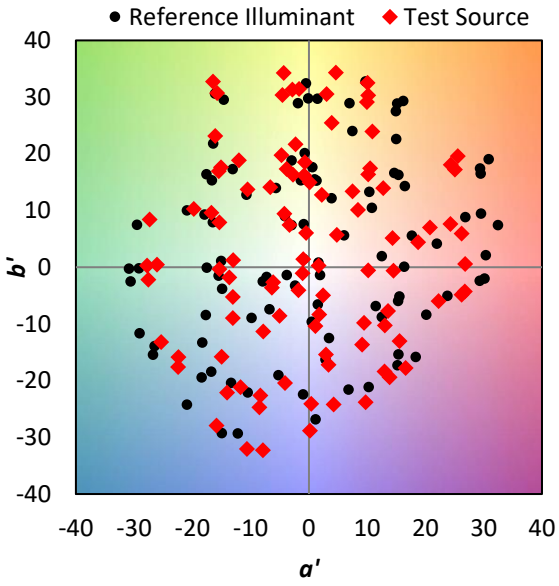
Summary

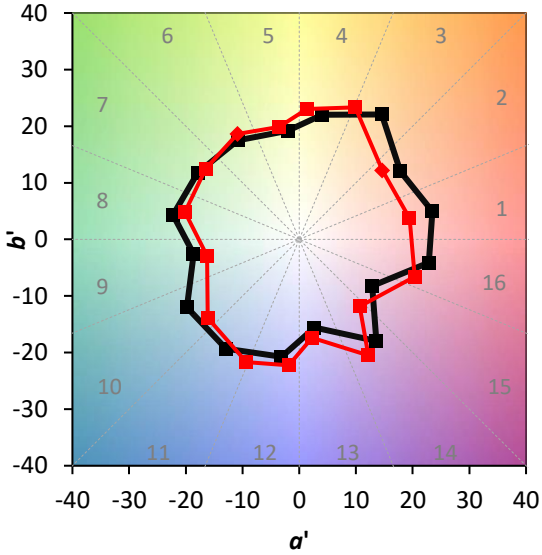
R_f = 78.3
R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

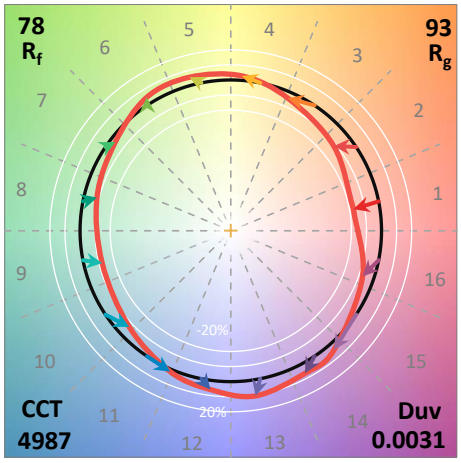
Spectral Power Distribution Comparison

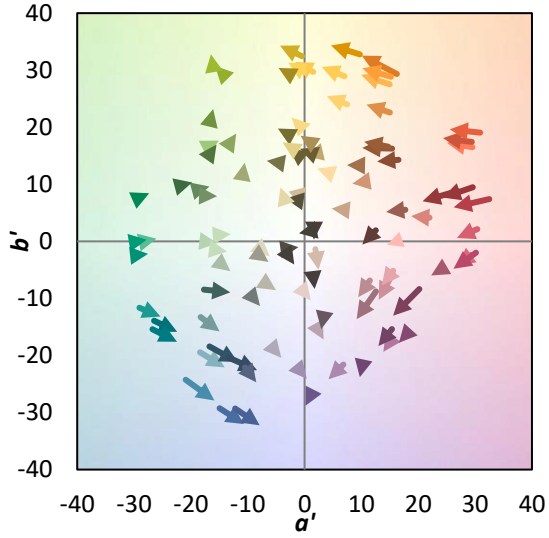


Color Vector Graphics







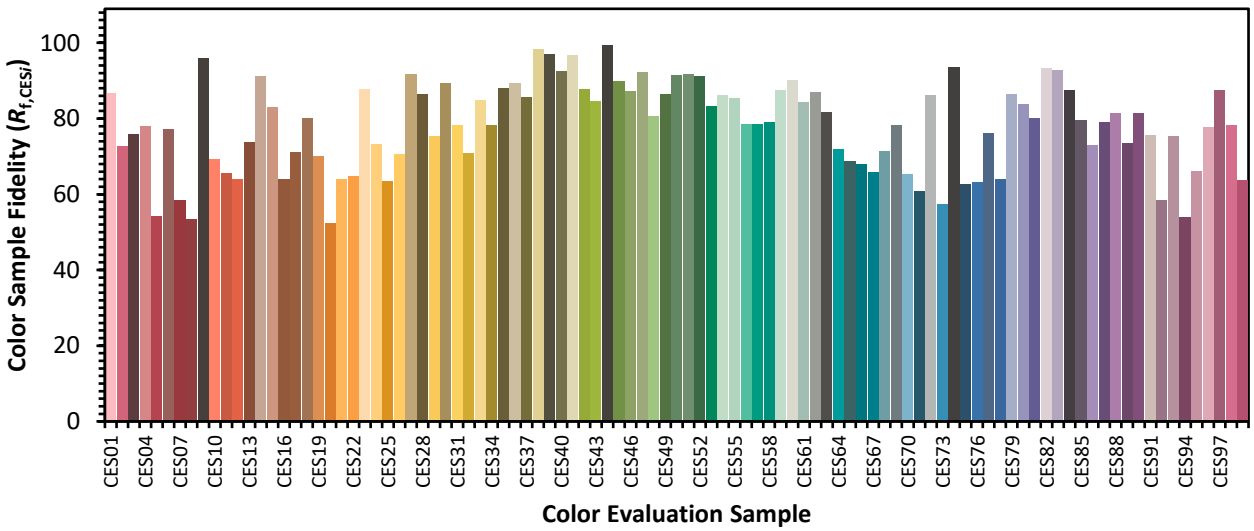


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

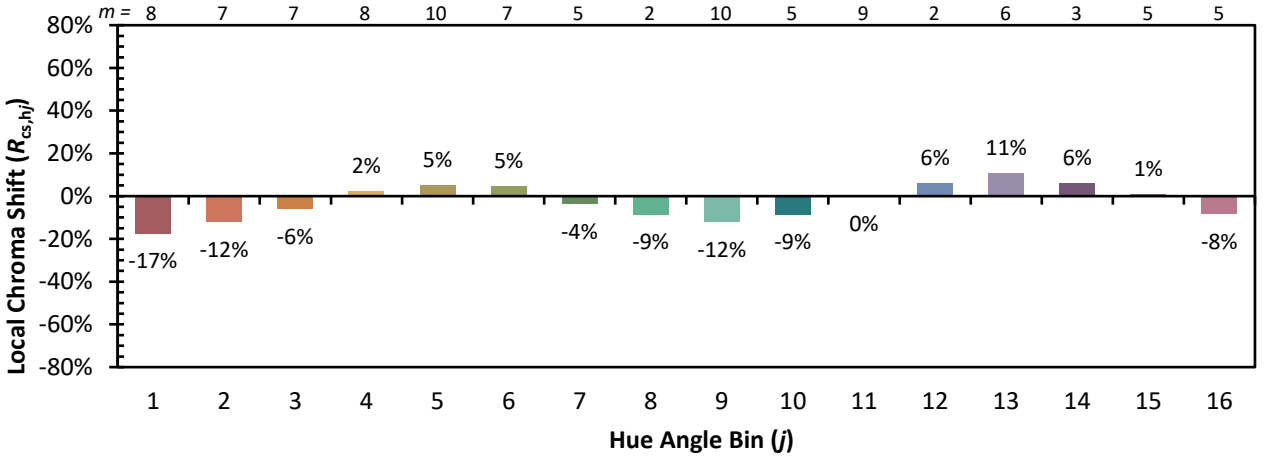
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CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 93
CES08 = 38	CES33 = 85	CES58 = 79	CES83 = 93
CES09 = 29	CES34 = 78	CES59 = 88	CES84 = 87
CES10 = 73	CES35 = 88	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 89	CES61 = 84	CES86 = 73
CES12 = 61	CES37 = 86	CES62 = 87	CES87 = 79
CES13 = 41	CES38 = 98	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 74
CES15 = 70	CES40 = 93	CES65 = 69	CES90 = 81
CES16 = 46	CES41 = 97	CES66 = 68	CES91 = 76
CES17 = 49	CES42 = 88	CES67 = 66	CES92 = 58
CES18 = 55	CES43 = 85	CES68 = 71	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 78	CES94 = 54
CES20 = 64	CES45 = 90	CES70 = 65	CES95 = 66
CES21 = 85	CES46 = 87	CES71 = 61	CES96 = 78
CES22 = 77	CES47 = 92	CES72 = 86	CES97 = 88
CES23 = 91	CES48 = 81	CES73 = 57	CES98 = 78
CES24 = 90	CES49 = 86	CES74 = 93	CES99 = 64
CES25 = 71	CES50 = 91	CES75 = 63	

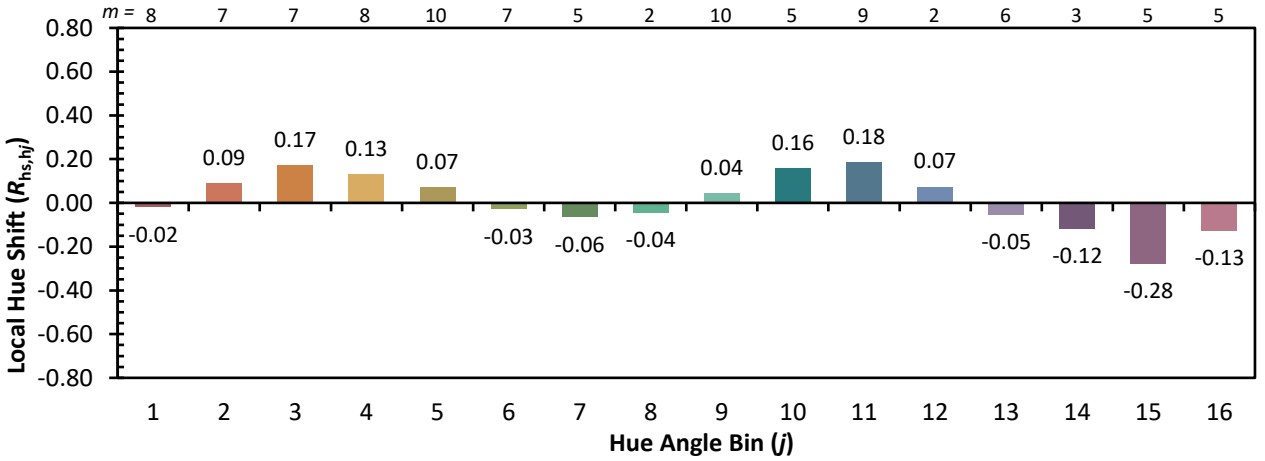


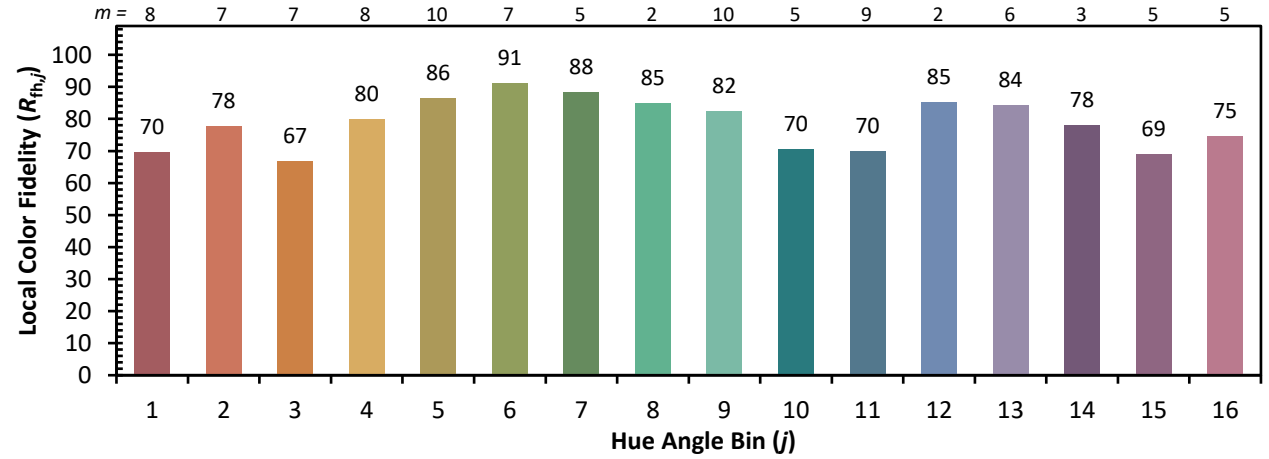
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Color Rendition by Hue-Angle Bin



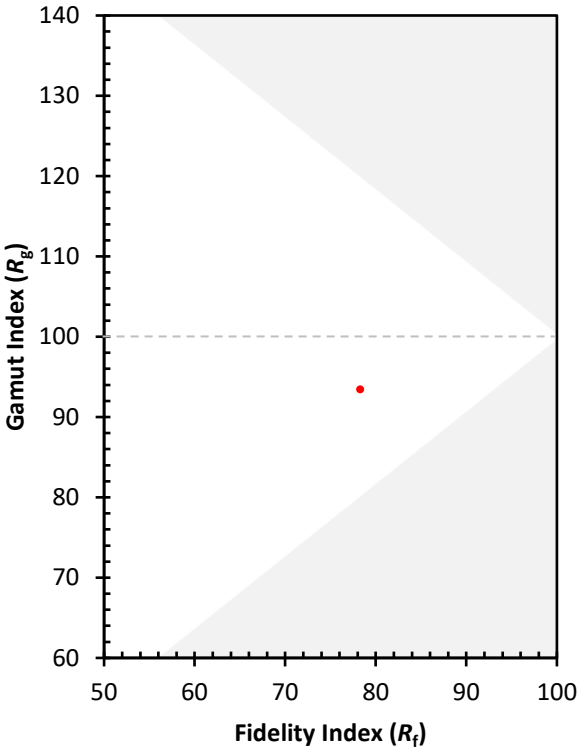


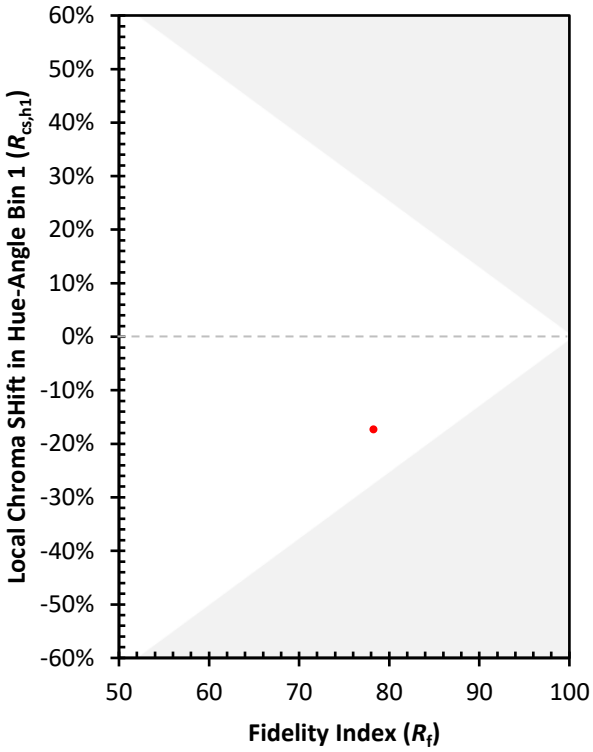


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Measure Comparisons





(END OF REPORT)