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: P981470

Luminaire Tested: **FFX-CLB-90-730-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981470
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-90-730-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13565.1 lumens
Efficiency:	N/A
Efficacy:	149.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U5 - G4

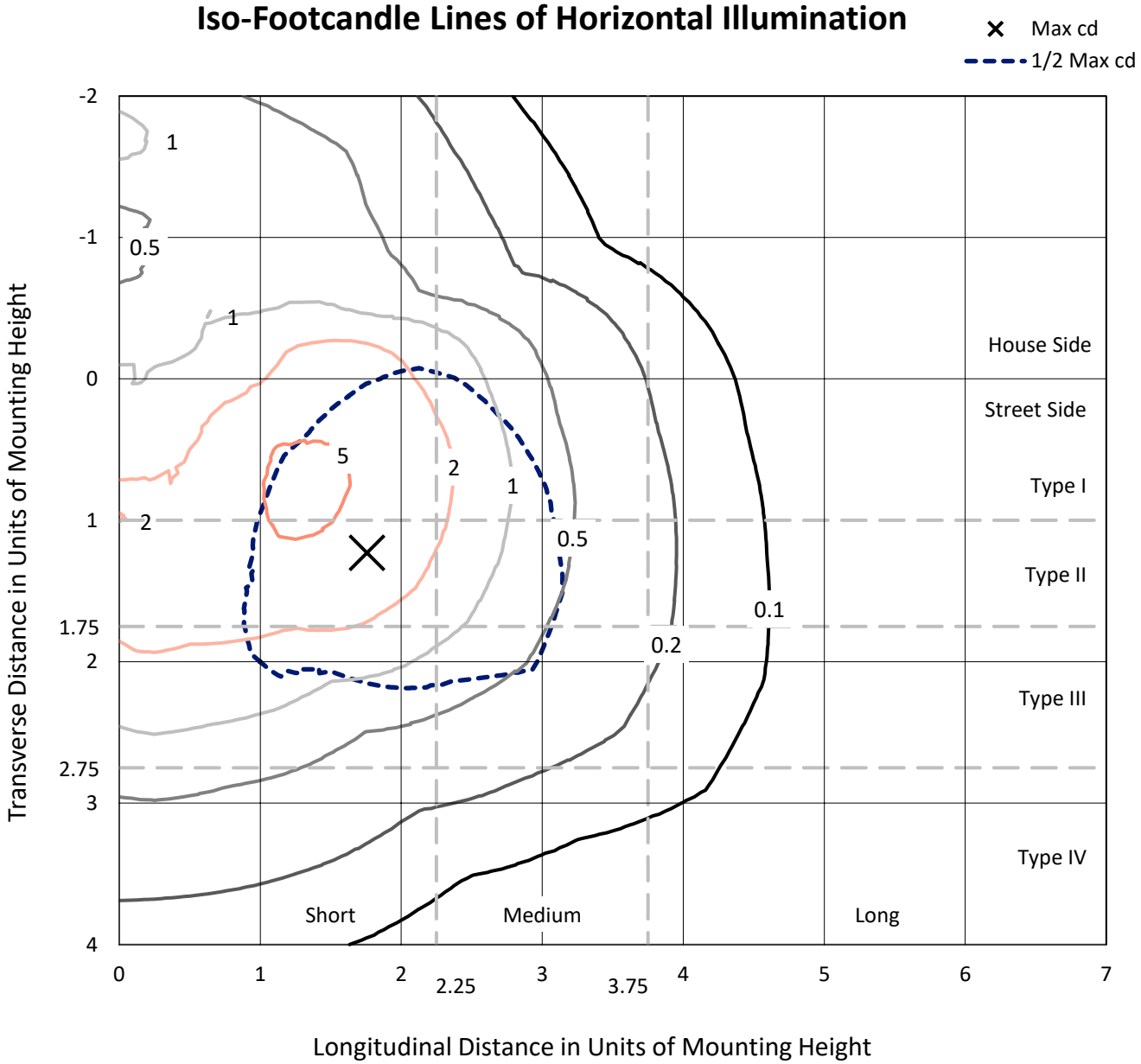
Input Watts (W):	90.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	5.42%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



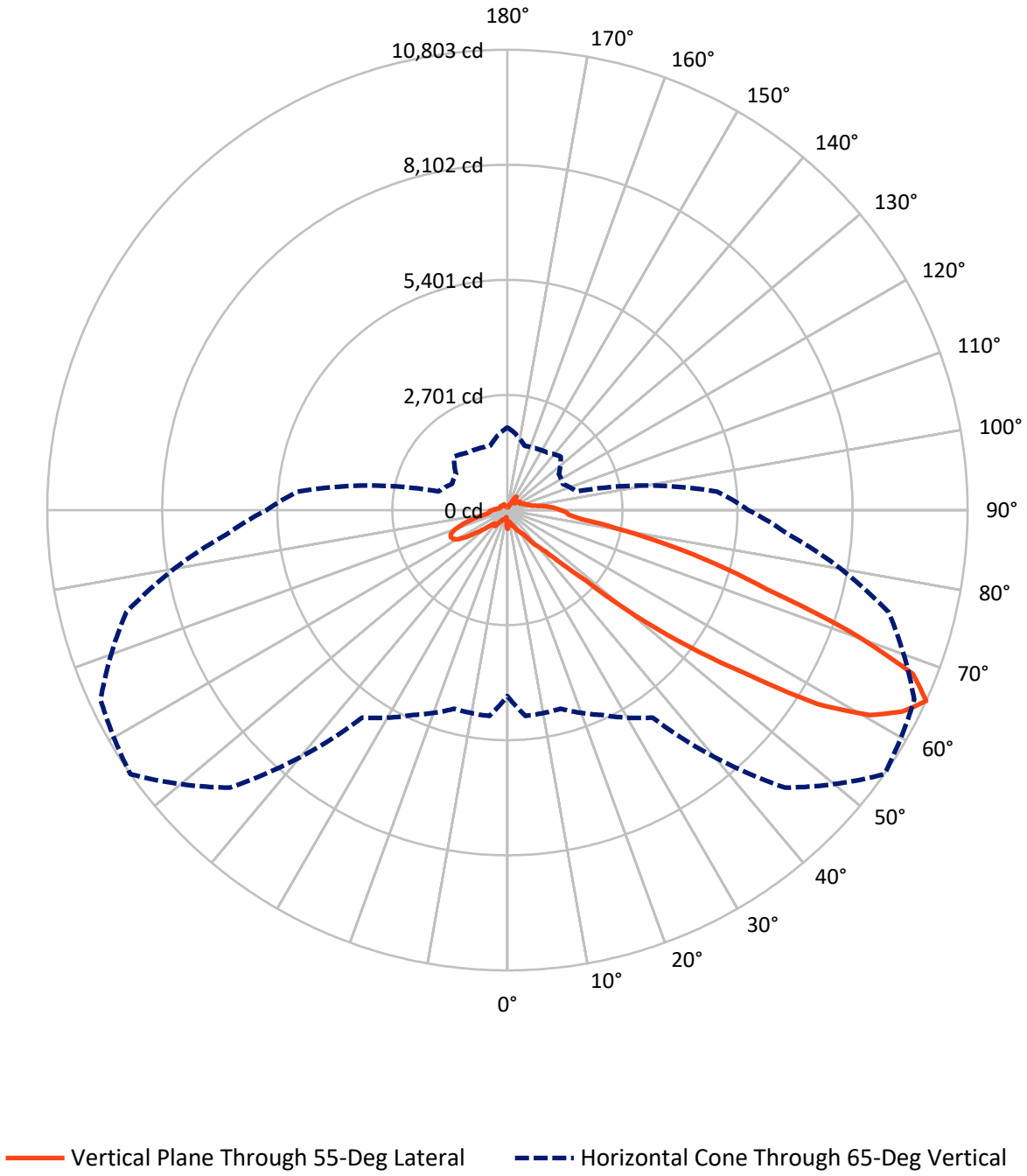
Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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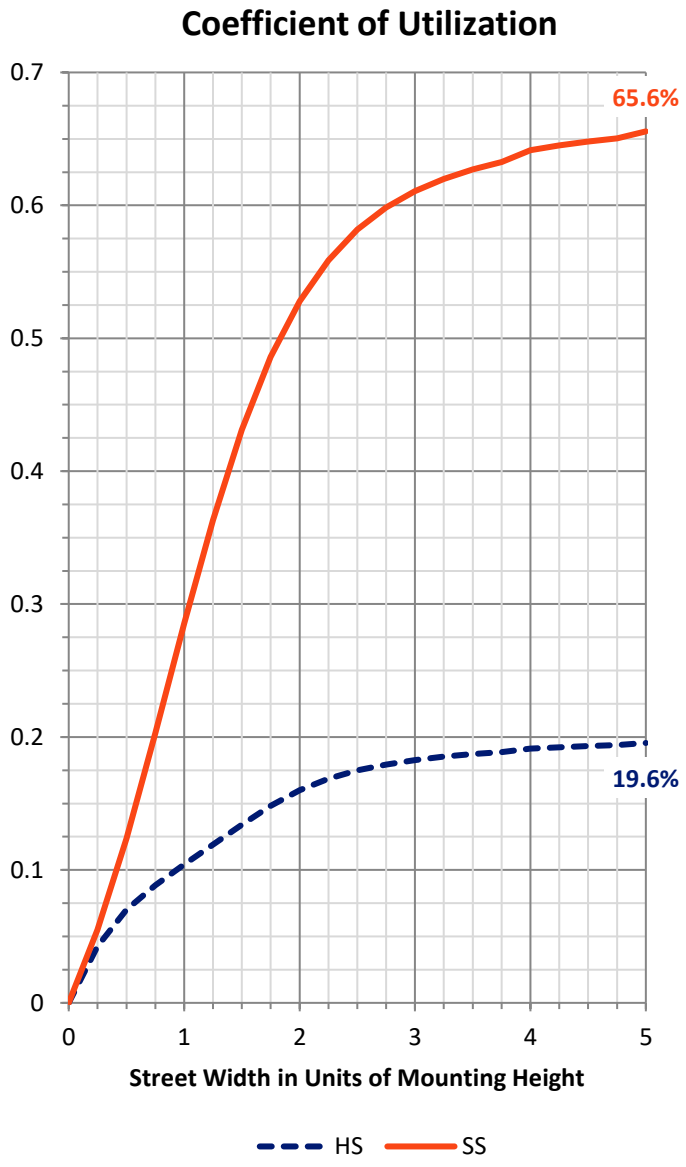
REPORT NUMBER: P981470
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2755.8	537.7	3293.5
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	9195.5	1076.1	10271.6
	% Fixture	67.8	7.9	75.7
Total	Lumens	11951.2	1613.8	13565.1
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	0.2
10°-20°	82.9	0.6
20°-30°	169.6	1.3
30°-40°	367.7	2.7
40°-50°	892.4	6.6
50°-60°	2786.1	20.5
60°-70°	4427.1	32.6
70°-80°	2359.3	17.4
80°-90°	840.7	6.2
90°-100°	511.4	3.8
100°-110°	302.8	2.2
110°-120°	236.4	1.7
120°-130°	197.1	1.5
130°-140°	144.1	1.1
140°-150°	132.5	1.0
150°-160°	59.9	0.4
160°-170°	22.9	0.2
170°-180°	6.8	0.0
0°-90°	11951.2	88.1
0°-180°	13565.1	100.0



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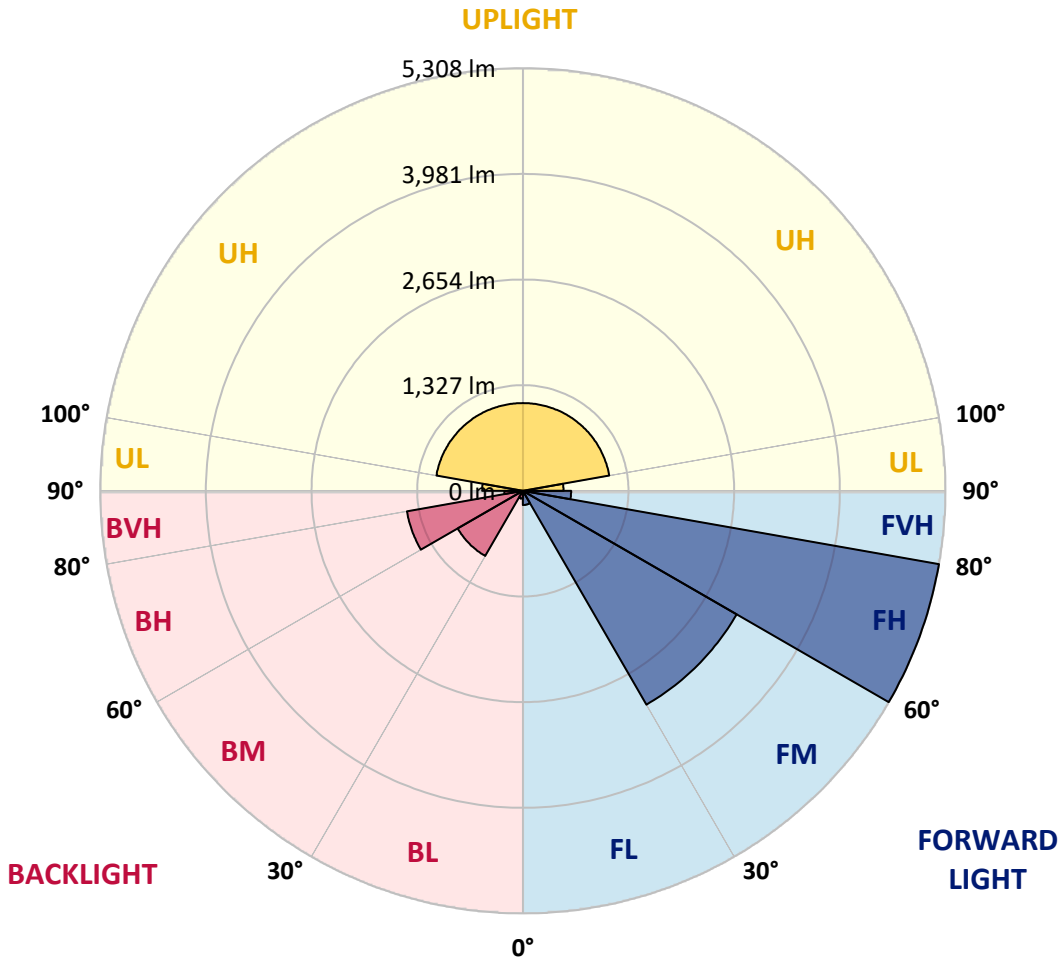
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	179.3	1.3			
FM	(30°-60°)	3101.7	22.9			
FH	(60°-80°)	5307.9	39.1			G3/7500
FVH	(80°-90°)	606.6	4.5			G4/750
BL	(0°-30°)	98.7	0.7	B0/110		
BM	(30°-60°)	944.5	7.0	B1/1000		
BH	(60°-80°)	1478.4	10.9	B3/2500		G3/2500
BVH	(80°-90°)	234.1	1.7			G3/500
UL	(90°-100°)	511.4	3.8		U4/1000	
UH	(100°-180°)	1102.4	8.1		U5	

BUG Rating: B3-U5-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	440.1	440.1	440.1	440.1	440.1	440.1	*440.1*	440.1	440.1	440.1	440.1
2.5°	262.8	264.6	294.0	317.0	345.5	337.2	*337.2*	399.7	441.0	501.7	496.2
5°	281.2	269.2	274.7	294.9	333.5	351.9	*331.7*	262.8	217.8	236.1	258.2
7.5°	307.8	305.1	298.6	279.3	264.6	304.1	*359.3*	319.8	241.7	203.1	194.8
10°	315.2	316.1	314.2	316.1	323.4	306.0	*274.7*	249.9	242.6	238.9	236.1
12.5°	381.3	380.4	384.1	379.5	362.0	340.9	*347.3*	328.9	293.1	268.3	261.9
15°	444.7	442.9	442.0	424.5	396.0	362.0	*345.5*	353.8	330.8	302.3	289.4
17.5°	470.4	470.4	452.1	427.3	409.8	385.9	*373.0*	363.9	346.4	328.0	312.4
20°	460.3	459.4	441.0	430.9	432.8	421.7	*410.7*	396.9	379.5	350.1	330.8
22.5°	454.8	454.8	448.4	445.6	461.3	457.6	*454.8*	437.4	414.4	371.2	346.4
25°	490.7	487.9	479.6	479.6	494.3	506.3	*510.9*	497.1	459.4	394.2	371.2
27.5°	525.6	524.7	513.6	516.4	525.6	549.5	*556.8*	550.4	498.9	413.5	393.3
30°	567.8	561.4	552.2	568.8	566.9	600.0	*610.1*	617.5	552.2	453.0	429.1
32.5°	612.9	609.2	601.8	623.0	630.3	660.6	*668.9*	705.7	624.8	523.7	498.9
35°	689.1	686.4	705.7	747.0	746.1	803.1	*781.0*	836.1	759.9	651.5	626.6
37.5°	1032.8	1017.1	995.1	955.6	952.8	1031.9	*1007.0*	1050.2	942.7	790.2	762.6
40°	1075.0	1072.3	1062.2	1017.1	991.4	1126.5	*1143.0*	1270.7	1093.4	918.8	865.5
42.5°	1050.2	1053.9	1189.0	1217.5	1165.1	1331.4	*1359.0*	1583.2	1263.4	1114.5	1017.1
45°	1266.2	1271.7	1315.8	1336.0	1332.3	1750.4	*1818.4*	2093.1	1561.1	1389.3	1209.2
47.5°	1449.9	1430.6	1510.6	1664.9	1770.6	2242.9	*2461.6*	2883.3	2097.7	1844.1	1510.6
50°	1992.0	1987.4	2180.4	2349.5	2454.2	3226.9	*3900.5*	4363.5	3074.4	2673.8	2107.8
52.5°	2359.6	2515.8	2700.5	3091.9	3186.5	4391.1	*5302.6*	5673.8	4248.7	3511.8	2877.8
55°	2732.6	2957.7	3164.5	3773.7	4087.9	5705.0	*6742.4*	6844.4	5580.1	4269.8	3631.2
57.5°	3426.3	3805.8	3939.0	4425.1	4884.5	7219.3	*8594.8*	8486.4	6952.8	5149.1	4472.9
60°	4053.9	4510.6	4472.0	4947.9	5538.7	8453.3	*9770.9*	9656.9	8208.9	5930.2	5119.7
62.5°	4264.3	4724.6	4672.3	5190.5	5945.8	9114.8	*10412.2*	10217.4	9031.2	6430.9	5478.1
65°	*4362.6*	*4851.4*	*4825.7*	*5309.0*	*5945.8*	*9210.4*	*10802.7*	*10536.3*	*9260.9*	*6623.9*	*5650.8*
67.5°	4276.3	4747.6	4764.2	5193.2	5595.7	8520.3	*10269.8*	9907.8	8685.7	6160.8	5342.1
70°	3737.8	4067.7	4026.3	4415.0	4454.5	6820.5	*8523.1*	8128.9	7056.6	5137.2	4420.5
72.5°	3088.2	3168.1	3134.1	3379.5	3425.4	4995.7	*6370.3*	6147.0	5269.5	3822.3	3377.6
75°	2462.5	2449.6	2519.4	2576.4	2528.6	3667.1	*5044.4*	4790.8	3898.6	2878.7	2599.4
77.5°	1703.5	1605.2	1789.0	1806.4	1731.1	2438.6	*3721.3*	3624.8	2794.2	2121.6	1915.8
80°	957.4	968.5	1099.8	1177.9	1150.4	1551.9	*2589.3*	2525.9	1908.4	1483.0	1317.6
82.5°	738.7	771.8	833.4	892.2	853.6	1187.1	*1751.3*	1755.9	1395.7	1083.3	989.6
85°	812.2	829.7	838.0	839.8	809.5	1103.5	*1451.8*	1432.5	1185.3	906.9	877.5
87.5°	792.0	810.4	813.2	814.1	787.4	1051.1	*1374.6*	1344.3	1130.2	871.1	826.0
90°	679.0	710.3	713.9	737.8	706.6	939.0	*1210.1*	1179.8	1019.0	785.6	743.3
92.5°	583.5	600.0	617.5	645.9	612.9	817.8	*1083.3*	1045.6	912.4	710.3	652.4
95°	533.8	543.0	557.7	568.8	530.2	694.6	*906.0*	866.5	740.6	571.5	520.1
97.5°	429.1	437.4	443.8	457.6	430.9	550.4	*702.9*	666.2	580.7	454.8	416.2
100°	366.6	372.1	379.5	388.7	366.6	461.3	*577.0*	560.5	483.3	384.1	359.3
102.5°	335.4	340.0	352.8	352.8	339.0	421.7	*515.5*	502.6	434.6	348.2	331.7
105°	323.4	324.3	335.4	330.8	321.6	393.3	*480.6*	464.0	407.0	330.8	311.5
107.5°	307.8	308.7	322.5	315.2	307.8	364.8	*435.5*	428.2	376.7	308.7	292.2
110°	292.2	294.9	312.4	306.0	301.4	342.7	*408.0*	394.2	360.2	298.6	284.8

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REPORT NUMBER: P981470
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	280.2	282.1	298.6	294.0	290.4	328.0	*378.6*	378.6	351.9	298.6	280.2
115°	270.1	273.8	287.6	278.4	272.0	308.7	*349.2*	351.0	328.9	284.8	266.5
117.5°	252.7	260.9	268.3	272.0	264.6	295.9	*331.7*	329.9	317.9	274.7	261.9
120°	287.6	281.2	286.7	293.1	281.2	306.0	*336.3*	336.3	324.3	270.1	259.1
122.5°	300.5	291.3	296.8	290.4	289.4	321.6	*359.3*	362.0	337.2	278.4	250.8
125°	266.5	262.8	256.4	254.5	261.9	292.2	*326.2*	338.1	311.5	266.5	234.3
127.5°	227.9	223.3	215.0	219.6	233.4	263.7	*281.2*	287.6	276.6	247.2	223.3
130°	210.4	209.5	215.9	224.2	235.2	260.9	*266.5*	275.7	275.7	240.7	227.0
132.5°	192.0	193.0	213.2	241.7	249.9	255.4	*243.5*	260.9	269.2	245.3	229.7
135°	189.3	190.2	201.2	224.2	225.1	228.8	*229.7*	251.8	257.3	234.3	216.8
137.5°	206.7	206.7	198.5	203.1	213.2	240.7	*249.9*	267.4	262.8	221.4	195.7
140°	227.9	223.3	197.5	198.5	215.9	249.9	*261.9*	272.9	267.4	216.8	186.5
142.5°	188.4	190.2	194.8	212.3	232.5	309.6	*299.5*	327.1	316.1	229.7	181.9
145°	294.0	294.9	289.4	296.8	309.6	411.6	*380.4*	424.5	437.4	300.5	215.9
147.5°	321.6	325.3	315.2	308.7	345.5	376.7	*341.8*	378.6	403.4	315.2	231.5
150°	250.8	249.9	243.5	252.7	277.5	275.7	*257.3*	270.1	280.2	240.7	198.5
152.5°	178.3	175.5	171.8	172.7	202.1	194.8	*189.3*	200.3	200.3	184.7	159.0
155°	147.9	147.9	146.1	150.7	167.2	154.4	*149.8*	147.9	146.1	141.5	131.4
157.5°	125.0	127.7	125.0	130.5	141.5	129.6	*126.8*	124.0	125.0	125.0	122.2
160°	103.8	103.8	102.0	111.2	114.9	105.7	*101.1*	99.2	99.2	104.7	104.7
162.5°	87.3	87.3	88.2	91.9	94.6	88.2	*85.5*	85.5	88.2	96.5	96.5
165°	75.3	75.3	76.3	79.0	80.9	77.2	*75.3*	76.3	83.6	91.0	91.0
167.5°	68.9	68.9	68.9	69.8	70.8	68.9	*68.9*	72.6	79.0	83.6	83.6
170°	65.2	65.2	64.3	65.2	65.2	65.2	*68.9*	72.6	75.3	75.3	75.3
172.5°	66.2	66.2	65.2	66.2	66.2	65.2	*69.8*	74.4	72.6	71.7	71.7
175°	68.0	68.0	68.0	68.9	68.9	67.1	*66.2*	68.0	69.8	69.8	68.9
177.5°	68.0	68.0	67.1	68.0	67.1	65.2	*64.3*	63.4	63.4	62.5	62.5
180°	63.4	63.4	63.4	63.4	63.4	63.4	*63.4*	63.4	63.4	63.4	63.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1
2.5°	449.3	387.7	341.8	377.6	456.7	496.2	456.7	347.3	244.4	214.1
5°	269.2	261.9	236.1	230.6	240.7	231.5	257.3	243.5	193.0	194.8
7.5°	201.2	243.5	235.2	168.1	157.1	147.0	155.3	177.3	182.8	170.9
10°	233.4	210.4	183.8	170.9	186.5	201.2	191.1	166.3	143.3	136.9
12.5°	257.3	255.4	258.2	231.5	190.2	175.5	170.0	182.8	222.4	231.5
15°	276.6	255.4	236.1	230.6	203.1	188.4	181.0	177.3	170.0	164.5
17.5°	295.9	260.9	239.8	218.7	204.9	191.1	175.5	167.2	166.3	167.2
20°	308.7	276.6	251.8	227.9	210.4	192.0	176.4	169.1	169.1	169.1
22.5°	324.3	293.1	266.5	236.1	215.9	195.7	182.8	175.5	174.6	174.6
25°	350.1	315.2	283.9	250.8	228.8	210.4	193.0	183.8	181.0	180.1
27.5°	379.5	340.9	303.2	269.2	246.2	226.0	203.1	189.3	185.6	184.7
30°	417.2	373.0	325.3	289.4	260.9	241.7	214.1	197.5	190.2	189.3
32.5°	478.7	420.8	358.3	318.8	284.8	259.1	228.8	208.6	196.6	193.9
35°	597.2	526.5	432.8	375.8	321.6	281.2	241.7	215.0	203.1	201.2
37.5°	729.6	622.1	531.1	464.9	398.8	330.8	261.9	225.1	210.4	207.7
40°	786.5	684.5	588.1	484.2	469.5	416.2	321.6	249.9	220.5	215.9
42.5°	911.5	766.3	635.8	428.2	462.2	459.4	396.9	306.0	248.1	237.1
45°	1073.2	872.0	707.5	457.6	465.8	449.3	407.0	353.8	301.4	289.4
47.5°	1336.9	974.9	730.5	514.5	523.7	484.2	426.3	373.0	335.4	330.8
50°	1909.3	1277.2	815.0	623.0	652.4	561.4	489.7	443.8	398.8	390.5
52.5°	2595.7	1513.3	902.3	777.3	883.0	752.5	644.1	559.6	556.8	545.8
55°	3318.8	1604.3	1018.1	947.3	1111.8	998.8	893.1	815.9	855.4	859.1
57.5°	4131.1	1701.7	1185.3	1169.7	1389.3	1209.2	1120.1	1141.2	1421.4	1530.8
60°	4672.3	1781.6	1329.6	1353.4	1642.9	1467.4	1400.3	1447.2	1923.1	2122.5
62.5°	4913.0	1741.2	1400.3	1441.7	1752.2	1624.5	1613.5	1638.3	2041.6	2228.2
65°	*4946.1*	*1681.5*	*1438.9*	*1474.7*	*1771.5*	*1641.0*	*1594.2*	*1559.3*	*1827.6*	*1936.9*
67.5°	4540.0	1554.7	1408.6	1446.2	1684.2	1528.0	1411.3	1332.3	1487.6	1498.6
70°	3694.6	1388.4	1305.7	1319.4	1438.9	1279.0	1168.8	1100.8	1136.6	1121.9
72.5°	2864.9	1223.9	1163.2	1131.1	1166.9	1030.0	899.5	864.6	898.6	883.0
75°	2176.7	1093.4	1026.3	917.9	976.7	793.0	647.8	616.5	631.2	610.1
77.5°	1600.6	881.2	803.1	679.0	759.9	575.2	437.4	405.2	410.7	390.5
80°	1167.8	651.5	587.1	487.0	547.6	408.9	316.1	310.6	309.6	296.8
82.5°	902.3	517.3	469.5	419.0	429.1	361.1	299.5	290.4	290.4	271.1
85°	837.1	500.8	452.1	416.2	419.0	350.1	284.8	279.3	282.1	261.9
87.5°	781.9	489.7	450.2	407.0	385.9	317.0	256.4	262.8	264.6	247.2
90°	670.7	435.5	399.7	358.3	333.5	269.2	229.7	241.7	243.5	227.9
92.5°	588.1	374.0	343.6	311.5	300.5	252.7	220.5	229.7	229.7	215.9
95°	468.6	306.0	292.2	276.6	273.8	236.1	205.8	210.4	208.6	196.6
97.5°	381.3	265.5	253.6	238.9	229.7	202.1	181.0	185.6	186.5	178.3
100°	335.4	245.3	228.8	212.3	203.1	181.9	165.4	173.7	179.2	171.8
102.5°	313.3	234.3	215.9	198.5	191.1	171.8	156.2	163.6	170.9	164.5
105°	297.7	226.0	206.7	191.1	181.9	162.6	147.0	148.9	158.0	154.4
107.5°	277.5	226.0	201.2	185.6	174.6	157.1	138.7	136.9	142.4	141.5
110°	270.1	226.0	197.5	181.9	170.0	154.4	137.8	130.5	133.2	133.2

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

Scaled Data Report

REPORT NUMBER: P981470
CATALOG NUMBER: FFX-CLB-90-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	263.7	224.2	193.9	175.5	165.4	152.5	136.0	125.0	127.7	129.6
115°	249.0	206.7	182.8	163.6	153.4	139.7	128.6	120.4	121.3	123.1
117.5°	240.7	191.1	177.3	159.9	152.5	144.3	134.1	118.5	118.5	120.4
120°	240.7	188.4	181.9	175.5	171.8	158.0	141.5	118.5	115.8	115.8
122.5°	237.1	209.5	198.5	183.8	173.7	155.3	135.1	115.8	113.9	113.9
125°	217.8	200.3	182.8	165.4	153.4	138.7	126.8	116.7	113.0	113.0
127.5°	207.7	180.1	163.6	149.8	141.5	134.1	126.8	116.7	112.1	111.2
130°	210.4	181.9	160.8	149.8	143.3	136.0	127.7	114.9	107.5	106.6
132.5°	212.3	175.5	155.3	146.1	141.5	136.0	125.0	108.4	100.2	100.2
135°	192.0	158.0	148.9	142.4	139.7	135.1	118.5	102.9	96.5	95.6
137.5°	174.6	153.4	147.0	140.6	136.0	129.6	116.7	101.1	92.8	91.9
140°	167.2	149.8	140.6	128.6	123.1	110.3	101.1	91.9	89.1	88.2
142.5°	159.0	140.6	129.6	119.4	116.7	112.1	106.6	91.9	82.7	82.7
145°	190.2	169.1	156.2	146.1	133.2	124.0	106.6	88.2	76.3	74.4
147.5°	199.4	180.1	167.2	153.4	129.6	109.3	90.0	77.2	72.6	70.8
150°	174.6	158.0	144.3	129.6	108.4	94.6	81.8	73.5	71.7	71.7
152.5°	138.7	129.6	114.9	104.7	91.0	82.7	75.3	70.8	68.9	68.9
155°	114.9	107.5	99.2	91.0	83.6	78.1	73.5	69.8	68.0	68.0
157.5°	111.2	100.2	92.8	85.5	80.9	75.3	71.7	68.0	67.1	66.2
160°	101.1	88.2	81.8	77.2	76.3	74.4	71.7	68.9	68.0	67.1
162.5°	93.7	80.9	76.3	73.5	76.3	78.1	76.3	72.6	69.8	68.9
165°	88.2	76.3	72.6	72.6	78.1	80.9	76.3	72.6	72.6	71.7
167.5°	81.8	78.1	73.5	72.6	77.2	82.7	83.6	77.2	74.4	73.5
170°	76.3	77.2	77.2	74.4	75.3	79.9	81.8	79.9	76.3	75.3
172.5°	72.6	74.4	78.1	76.3	76.3	78.1	79.9	78.1	75.3	74.4
175°	68.9	69.8	68.0	68.9	71.7	74.4	73.5	72.6	71.7	71.7
177.5°	62.5	62.5	63.4	63.4	64.3	67.1	68.0	68.0	69.8	69.8
180°	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4

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

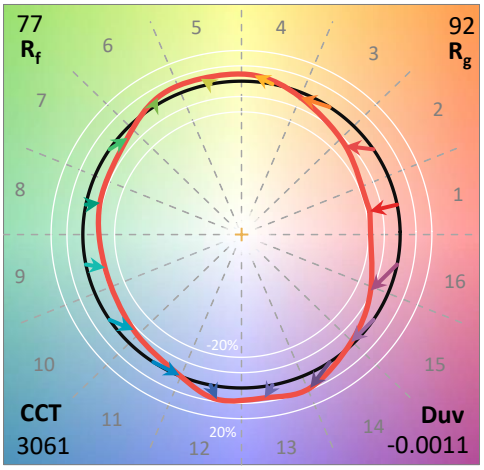
Test Information

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

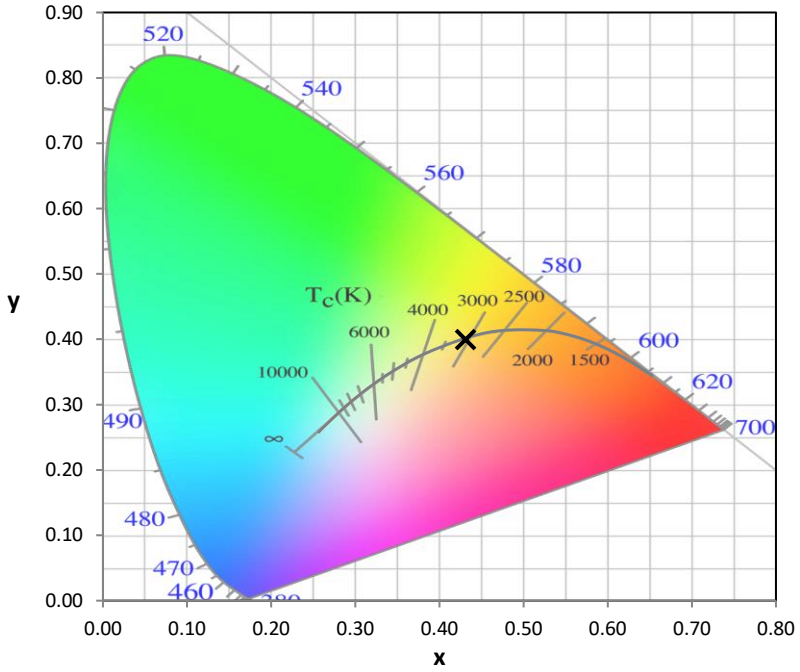
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

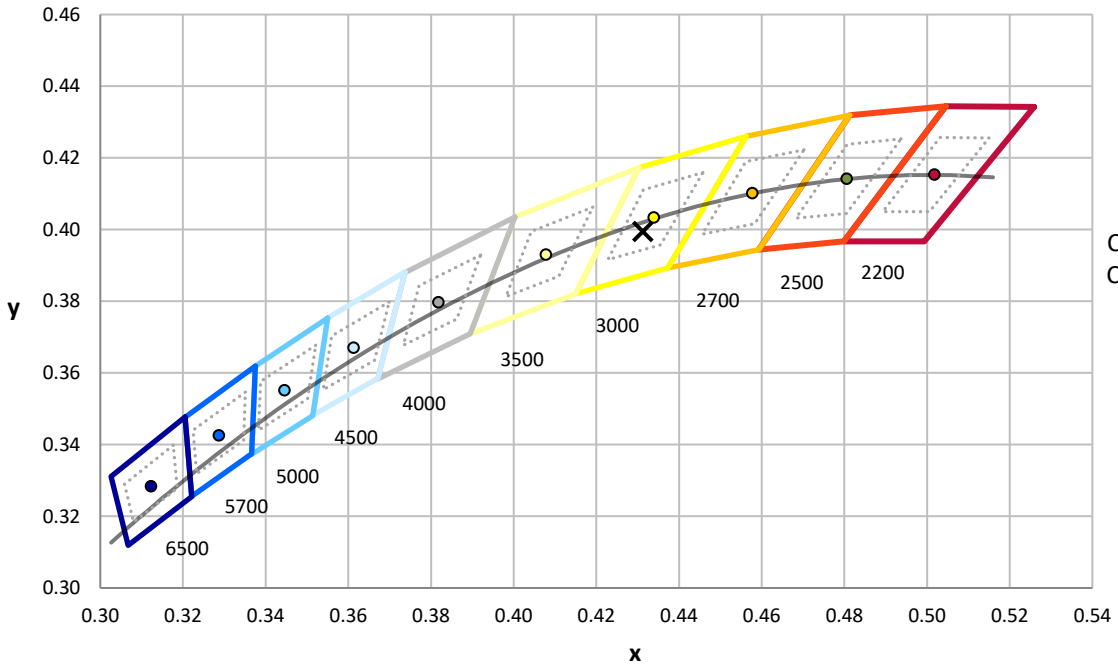
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

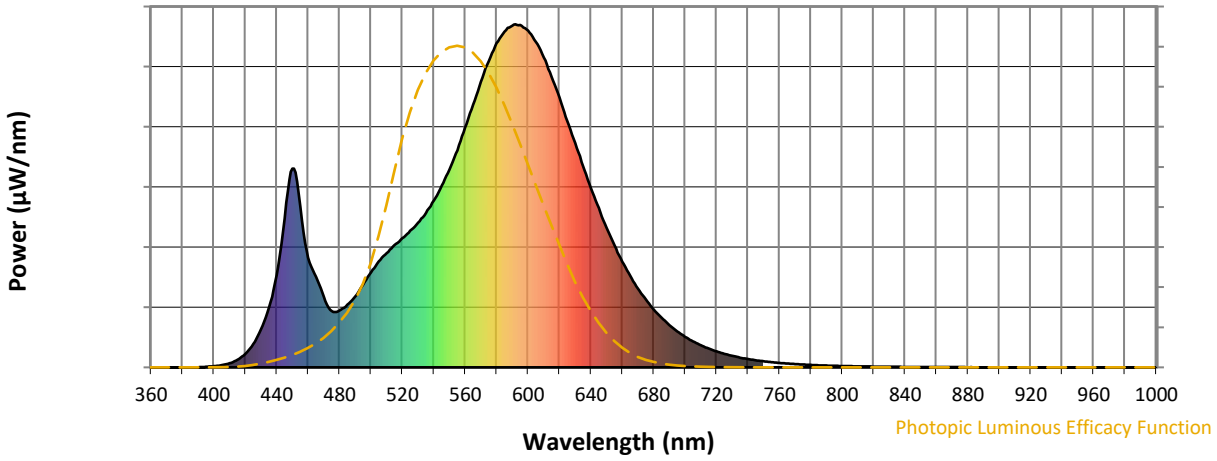


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

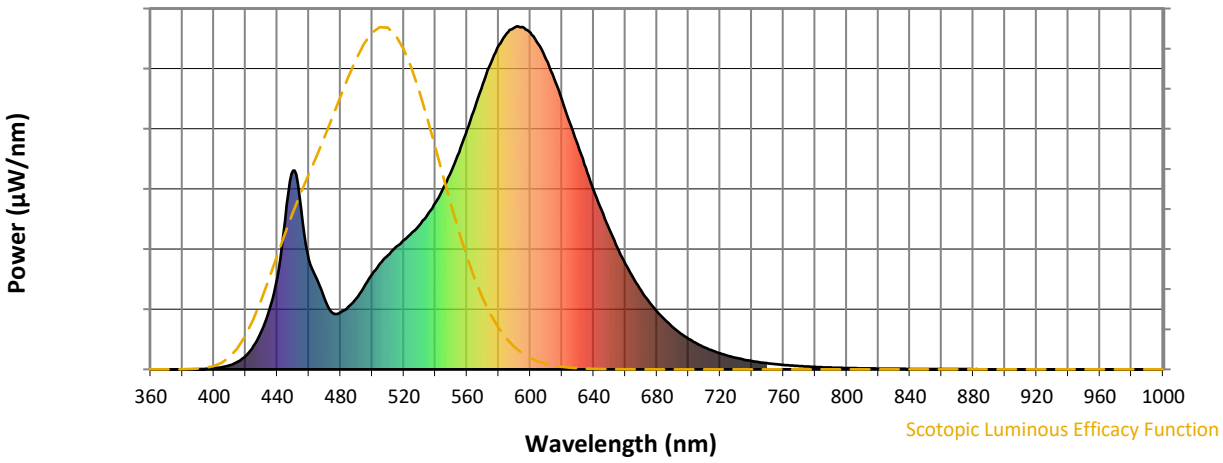


Photopic Lumens: NR

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

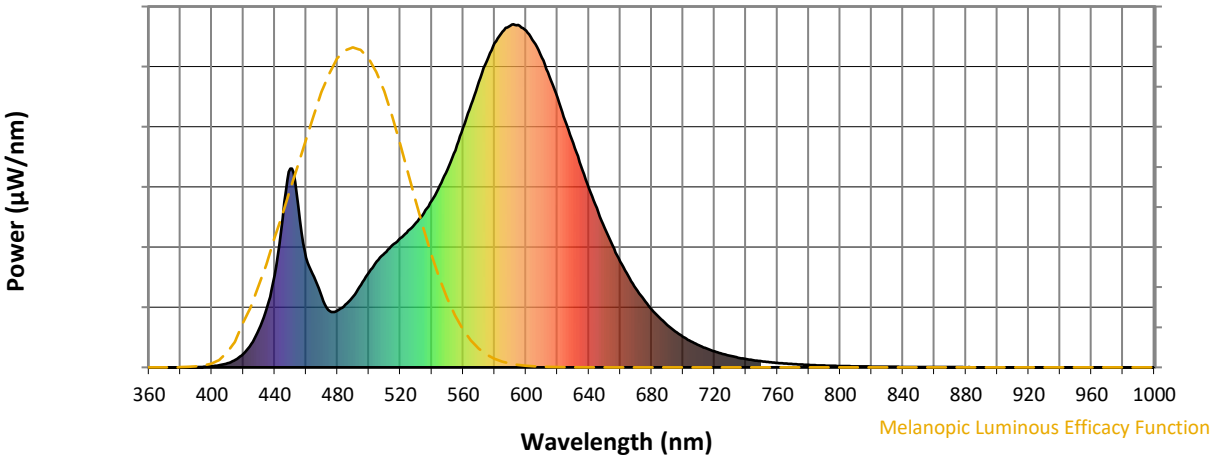


Scotopic Lumens: NR **S/P: 1.29**

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			

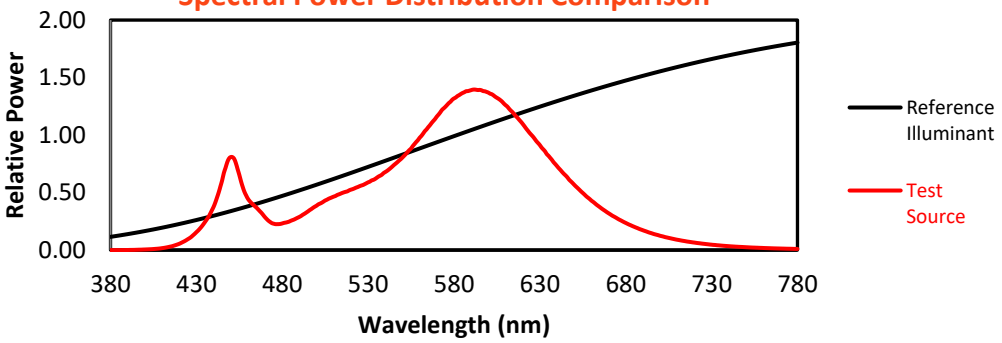
REPORT NUMBER: SP1-2501-332-4

TM-30-18

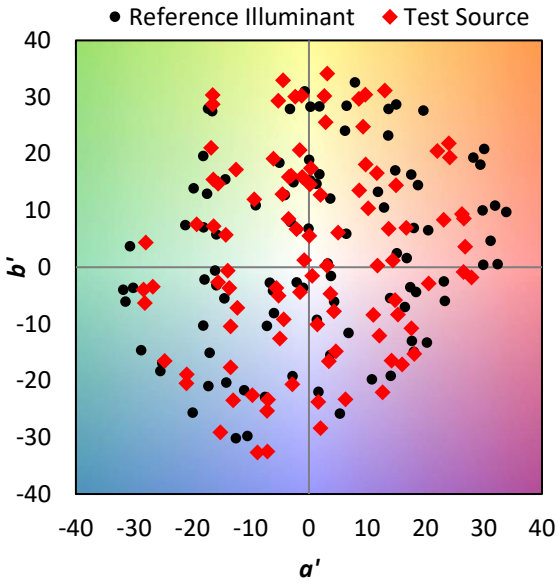
Summary

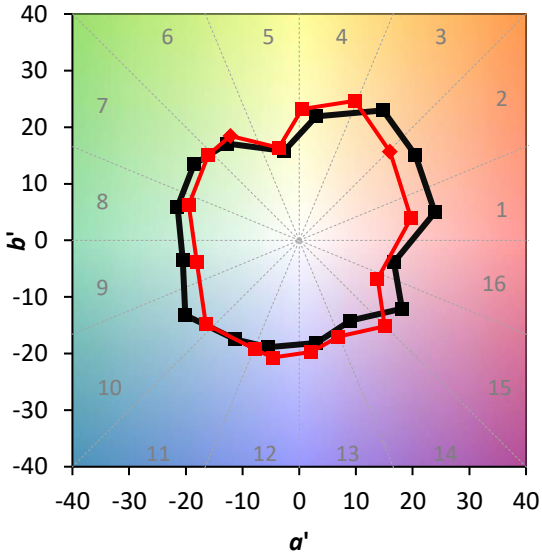
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

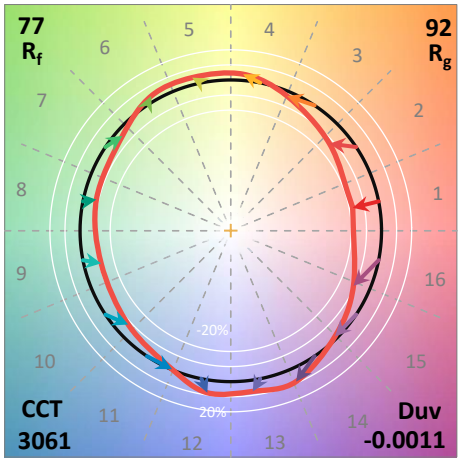
Spectral Power Distribution Comparison

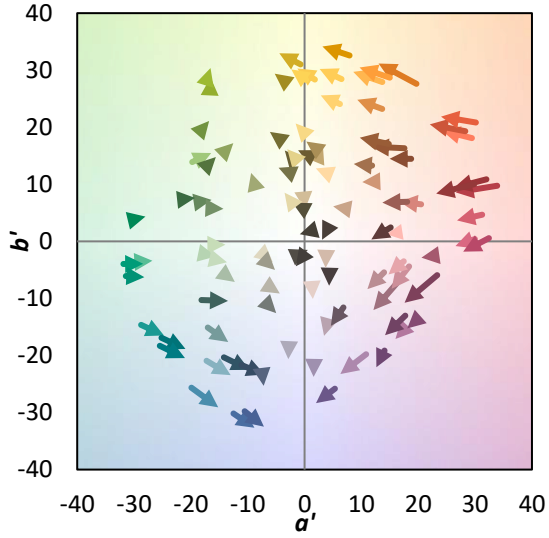


Color Vector Graphics







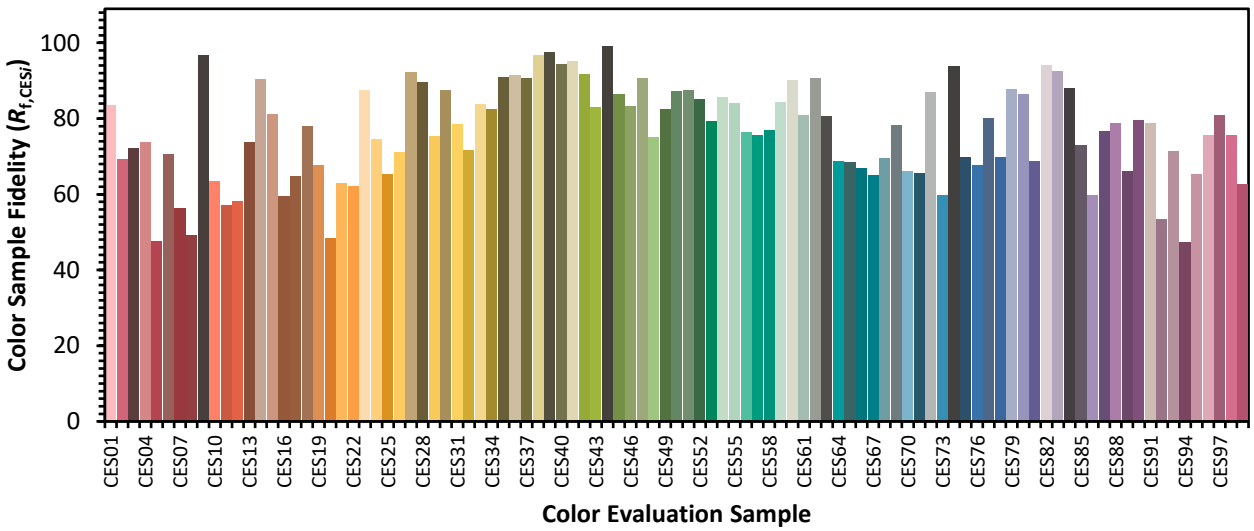


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

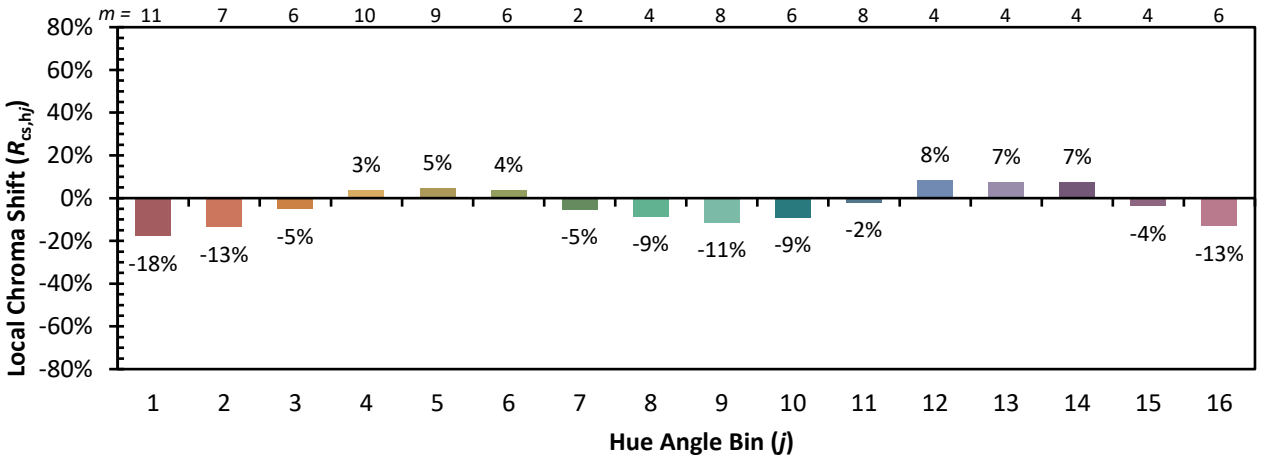
CES01 = 86	CES26 = 71	CES51 = 88	CES76 = 68
CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 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	

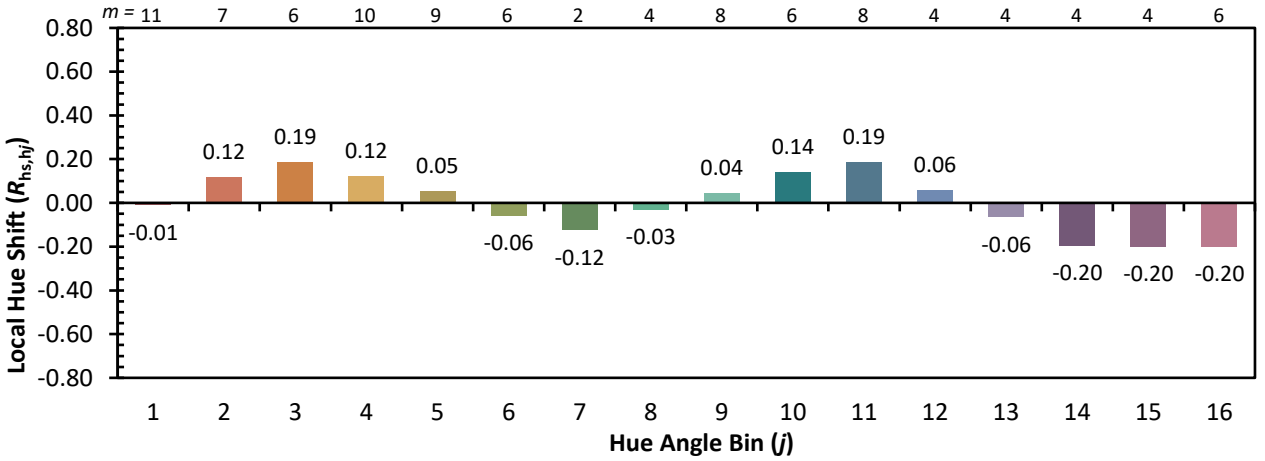


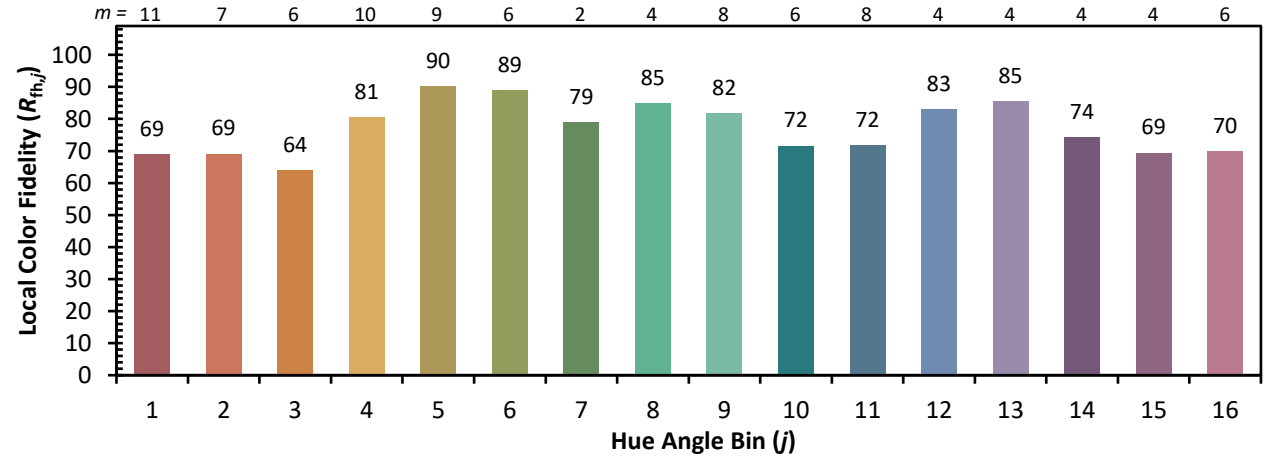
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Color Rendition by Hue-Angle Bin



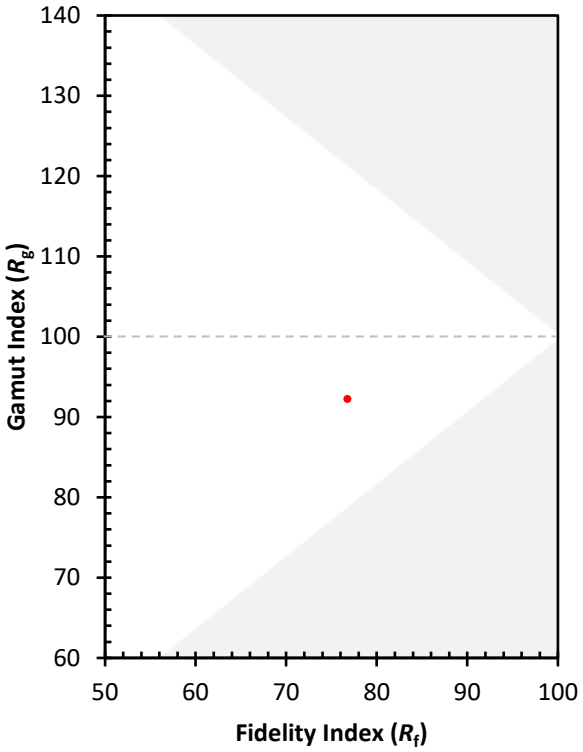


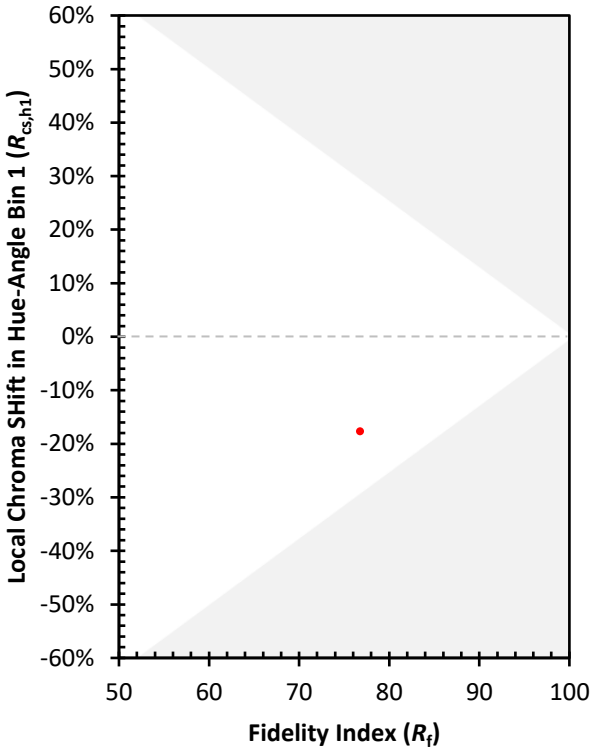


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Measure Comparisons





(END OF REPORT)