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: P981462

Luminaire Tested: **FFX-CLB-80-727-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:	P981462
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-727-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11396.3 lumens
Efficiency:	N/A
Efficacy:	139.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U4 - G4

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

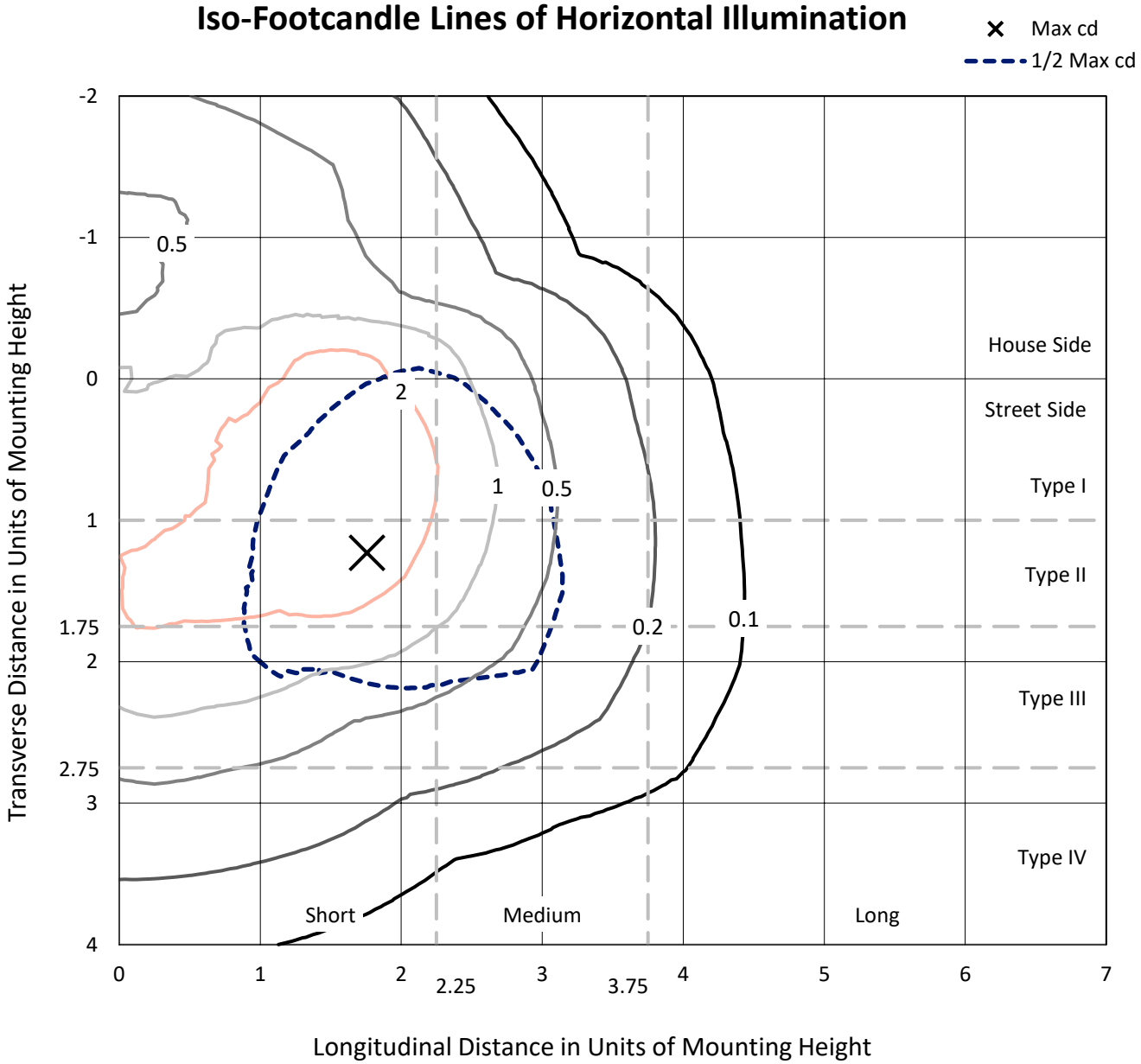


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Iso-Footcandle Lines of Horizontal Illumination



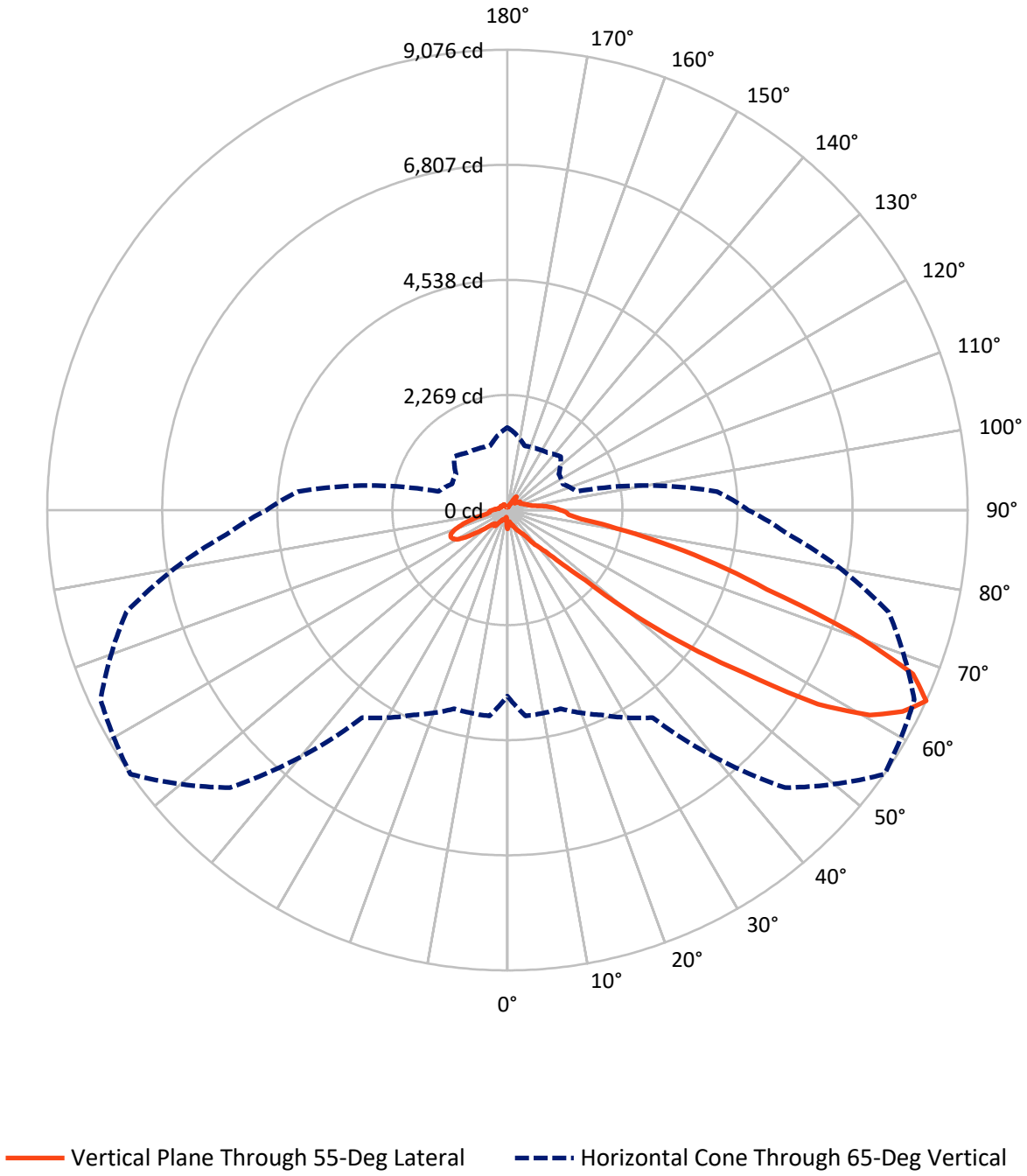
Based on 15 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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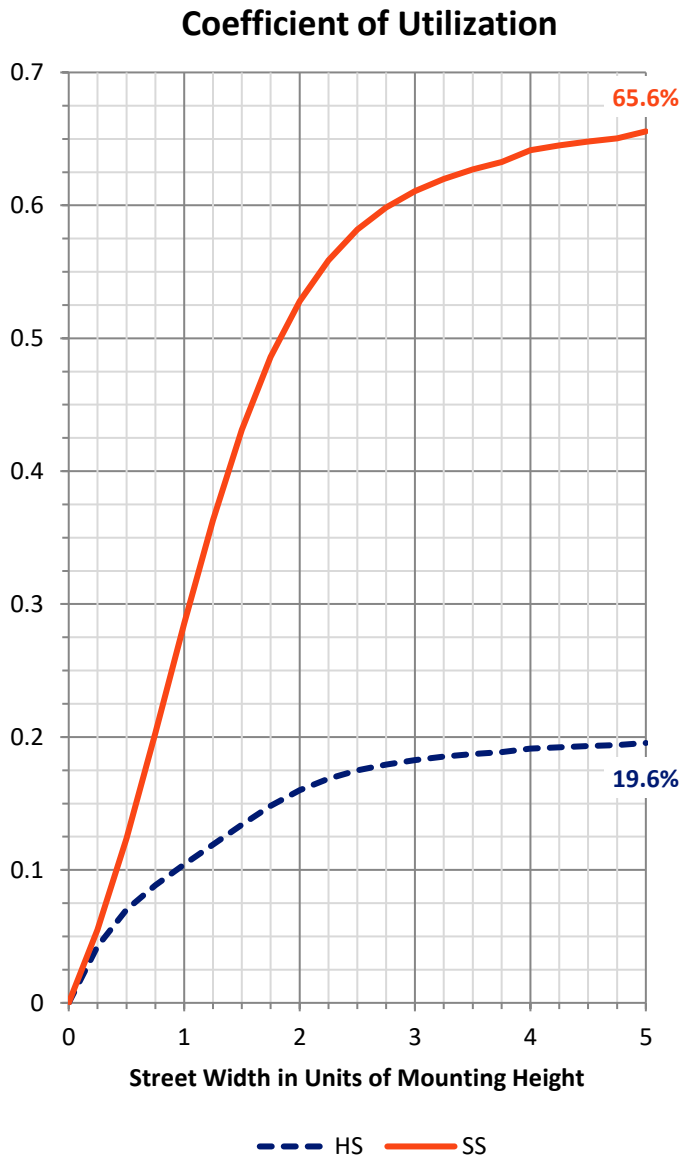
REPORT NUMBER: P981462
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2315.2	451.8	2766.9
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	7725.3	904.1	8629.3
	% Fixture	67.8	7.9	75.7
Total	Lumens	10040.5	1355.8	11396.3
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	0.2
10°-20°	69.7	0.6
20°-30°	142.5	1.3
30°-40°	308.9	2.7
40°-50°	749.8	6.6
50°-60°	2340.7	20.5
60°-70°	3719.3	32.6
70°-80°	1982.1	17.4
80°-90°	706.3	6.2
90°-100°	429.7	3.8
100°-110°	254.4	2.2
110°-120°	198.6	1.7
120°-130°	165.6	1.5
130°-140°	121.0	1.1
140°-150°	111.3	1.0
150°-160°	50.3	0.4
160°-170°	19.2	0.2
170°-180°	5.7	0.0
0°-90°	10040.5	88.1
0°-180°	11396.3	100.0



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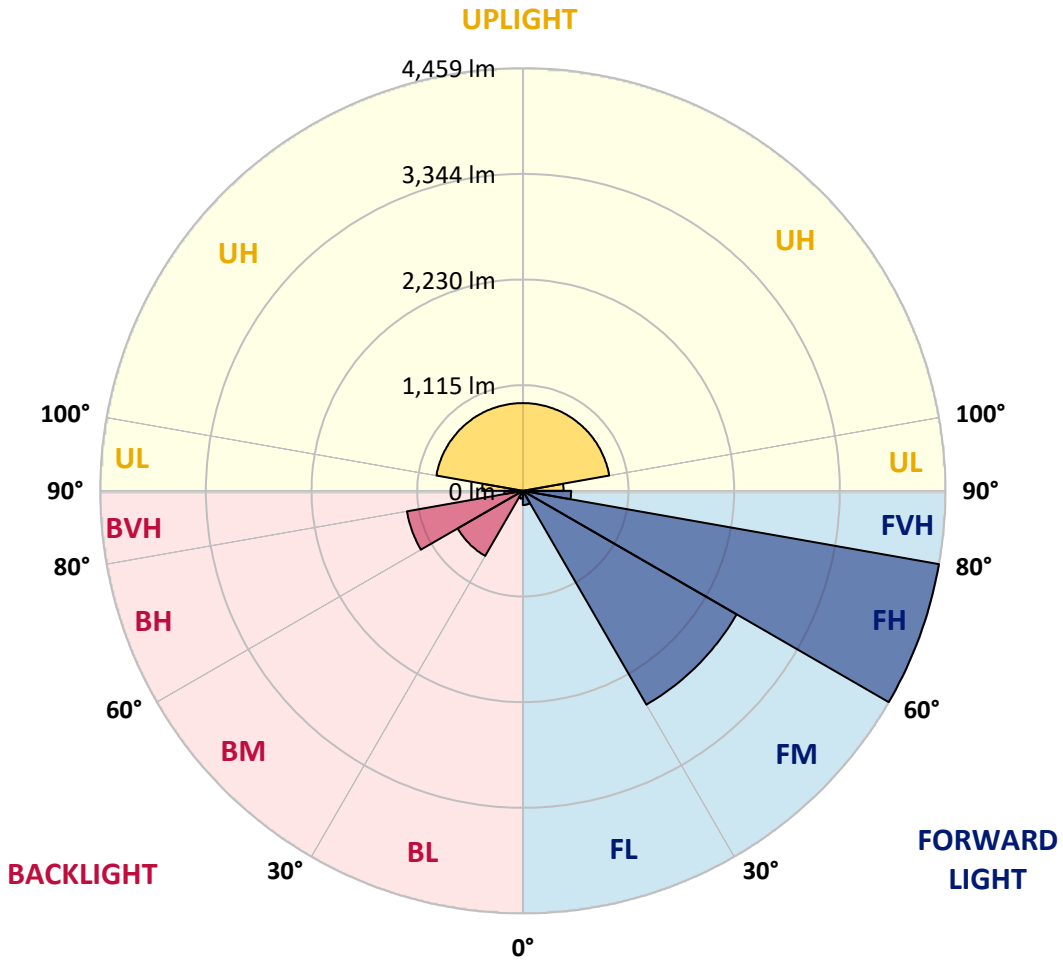
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	150.6	1.3			
FM	(30°-60°)	2605.8	22.9			
FH	(60°-80°)	4459.3	39.1			G2/5000
FVH	(80°-90°)	509.6	4.5			G4/750
BL	(0°-30°)	82.9	0.7	B0/110		
BM	(30°-60°)	793.5	7.0	B1/1000		
BH	(60°-80°)	1242.1	10.9	B3/2500		G3/2500
BVH	(80°-90°)	196.6	1.7			G2/225
UL	(90°-100°)	429.7	3.8		U3/500	
UH	(100°-180°)	926.1	8.1		U4/1000	

BUG Rating: B3-U4-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	369.8	369.8	369.8	369.8	369.8	369.8	*369.8*	369.8	369.8	369.8	369.8
2.5°	220.8	222.3	247.0	266.3	290.2	283.3	*283.3*	335.8	370.5	421.5	416.8
5°	236.2	226.2	230.8	247.8	280.2	295.6	*278.7*	220.8	182.9	198.4	216.9
7.5°	258.6	256.3	250.9	234.7	222.3	255.5	*301.8*	268.6	203.0	170.6	163.6
10°	264.8	265.5	264.0	265.5	271.7	257.1	*230.8*	210.0	203.8	200.7	198.4
12.5°	320.4	319.6	322.7	318.8	304.1	286.4	*291.8*	276.4	246.2	225.4	220.0
15°	373.6	372.1	371.3	356.6	332.7	304.1	*290.2*	297.2	277.9	254.0	243.2
17.5°	395.2	395.2	379.8	358.9	344.3	324.2	*313.4*	305.7	291.0	275.6	262.5
20°	386.7	386.0	370.5	362.0	363.6	354.3	*345.1*	333.5	318.8	294.1	277.9
22.5°	382.1	382.1	376.7	374.4	387.5	384.4	*382.1*	367.4	348.1	311.9	291.0
25°	412.2	409.9	402.9	402.9	415.3	425.3	*429.2*	417.6	386.0	331.2	311.9
27.5°	441.5	440.8	431.5	433.8	441.5	461.6	*467.8*	462.4	419.2	347.4	330.4
30°	477.1	471.6	463.9	477.8	476.3	504.1	*512.6*	518.7	463.9	380.6	360.5
32.5°	514.9	511.8	505.6	523.4	529.5	555.0	*562.0*	592.8	524.9	440.0	419.2
35°	578.9	576.6	592.8	627.6	626.8	674.7	*656.1*	702.5	638.4	547.3	526.5
37.5°	867.7	854.5	836.0	802.8	800.5	866.9	*846.0*	882.3	792.0	663.9	640.7
40°	903.2	900.8	892.4	854.5	832.9	946.4	*960.3*	1067.6	918.6	771.9	727.2
42.5°	882.3	885.4	998.9	1022.8	978.8	1118.5	*1141.7*	1330.0	1061.4	936.4	854.5
45°	1063.7	1068.4	1105.4	1122.4	1119.3	1470.5	*1527.7*	1758.5	1311.5	1167.2	1015.9
47.5°	1218.1	1201.9	1269.1	1398.7	1487.5	1884.3	*2068.0*	2422.3	1762.3	1549.3	1269.1
50°	1673.5	1669.7	1831.8	1973.8	2061.8	2711.0	*3276.8*	3665.9	2582.9	2246.3	1770.8
52.5°	1982.3	2113.5	2268.7	2597.5	2677.1	3689.1	*4454.8*	4766.7	3569.4	2950.3	2417.7
55°	2295.7	2484.8	2658.5	3170.3	3434.3	4792.9	*5664.4*	5750.1	4687.9	3587.2	3050.7
57.5°	2878.5	3197.3	3309.3	3717.6	4103.6	6065.1	*7220.6*	7129.6	5841.2	4325.9	3757.8
60°	3405.8	3789.4	3757.0	4156.8	4653.2	7101.8	*8208.7*	8113.0	6896.4	4982.0	4301.2
62.5°	3582.5	3969.3	3925.3	4360.6	4995.2	7657.6	*8747.5*	8583.9	7587.3	5402.7	4602.3
65°	*3665.1*	*4075.8*	*4054.2*	*4460.2*	*4995.2*	*7737.8*	*9075.6*	*8851.7*	*7780.3*	*5564.9*	*4747.4*
67.5°	3592.6	3988.6	4002.5	4363.0	4701.1	7158.1	*8627.9*	8323.7	7297.1	5175.8	4488.0
70°	3140.2	3417.3	3382.6	3709.1	3742.3	5730.0	*7160.4*	6829.3	5928.4	4315.9	3713.8
72.5°	2594.5	2661.6	2633.1	2839.2	2877.8	4197.0	*5351.8*	5164.2	4427.0	3211.2	2837.6
75°	2068.8	2058.0	2116.6	2164.5	2124.4	3080.8	*4237.9*	4024.8	3275.3	2418.5	2183.8
77.5°	1431.2	1348.6	1502.9	1517.6	1454.3	2048.7	*3126.3*	3045.3	2347.4	1782.4	1609.5
80°	804.4	813.6	924.0	989.6	966.5	1303.8	*2175.3*	2122.0	1603.3	1245.9	1106.9
82.5°	620.6	648.4	700.1	749.5	717.1	997.3	*1471.3*	1475.2	1172.6	910.1	831.4
85°	682.4	697.1	704.0	705.5	680.1	927.1	*1219.7*	1203.4	995.8	761.9	737.2
87.5°	665.4	680.8	683.2	683.9	661.5	883.1	*1154.8*	1129.3	949.5	731.8	694.0
90°	570.5	596.7	599.8	619.9	593.6	788.9	*1016.6*	991.2	856.1	660.0	624.5
92.5°	490.2	504.1	518.7	542.7	514.9	687.0	*910.1*	878.5	766.5	596.7	548.1
95°	448.5	456.2	468.6	477.8	445.4	583.6	*761.1*	727.9	622.2	480.1	436.9
97.5°	360.5	367.4	372.8	384.4	362.0	462.4	*590.5*	559.7	487.9	382.1	349.7
100°	308.0	312.6	318.8	326.5	308.0	387.5	*484.8*	470.9	406.0	322.7	301.8
102.5°	281.8	285.6	296.4	296.4	284.8	354.3	*433.1*	422.2	365.1	292.6	278.7
105°	271.7	272.5	281.8	277.9	270.2	330.4	*403.7*	389.8	342.0	277.9	261.7
107.5°	258.6	259.4	270.9	264.8	258.6	306.5	*365.9*	359.7	316.5	259.4	245.5
110°	245.5	247.8	262.5	257.1	253.2	287.9	*342.7*	331.2	302.6	250.9	239.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	235.4	237.0	250.9	247.0	243.9	275.6	*318.0*	318.0	295.6	250.9	235.4
115°	226.9	230.0	241.6	233.9	228.5	259.4	*293.3*	294.9	276.4	239.3	223.9
117.5°	212.3	219.2	225.4	228.5	222.3	248.6	*278.7*	277.1	267.1	230.8	220.0
120°	241.6	236.2	240.8	246.2	236.2	257.1	*282.5*	282.5	272.5	226.9	217.7
122.5°	252.4	244.7	249.3	243.9	243.2	270.2	*301.8*	304.1	283.3	233.9	210.7
125°	223.9	220.8	215.4	213.8	220.0	245.5	*274.0*	284.1	261.7	223.9	196.8
127.5°	191.4	187.6	180.6	184.5	196.1	221.5	*236.2*	241.6	232.4	207.6	187.6
130°	176.8	176.0	181.4	188.4	197.6	219.2	*223.9*	231.6	231.6	202.2	190.7
132.5°	161.3	162.1	179.1	203.0	210.0	214.6	*204.6*	219.2	226.2	206.1	193.0
135°	159.0	159.8	169.1	188.4	189.1	192.2	*193.0*	211.5	216.1	196.8	182.2
137.5°	173.7	173.7	166.7	170.6	179.1	202.2	*210.0*	224.6	220.8	186.0	164.4
140°	191.4	187.6	166.0	166.7	181.4	210.0	*220.0*	229.3	224.6	182.2	156.7
142.5°	158.2	159.8	163.6	178.3	195.3	260.1	*251.6*	274.8	265.5	193.0	152.8
145°	247.0	247.8	243.2	249.3	260.1	345.8	*319.6*	356.6	367.4	252.4	181.4
147.5°	270.2	273.3	264.8	259.4	290.2	316.5	*287.2*	318.0	338.9	264.8	194.5
150°	210.7	210.0	204.6	212.3	233.1	231.6	*216.1*	226.9	235.4	202.2	166.7
152.5°	149.8	147.4	144.4	145.1	169.8	163.6	*159.0*	168.3	168.3	155.2	133.5
155°	124.3	124.3	122.7	126.6	140.5	129.7	*125.8*	124.3	122.7	118.9	110.4
157.5°	105.0	107.3	105.0	109.6	118.9	108.8	*106.5*	104.2	105.0	105.0	102.7
160°	87.2	87.2	85.7	93.4	96.5	88.8	*84.9*	83.4	83.4	88.0	88.0
162.5°	73.3	73.3	74.1	77.2	79.5	74.1	*71.8*	71.8	74.1	81.1	81.1
165°	63.3	63.3	64.1	66.4	67.9	64.8	*63.3*	64.1	70.2	76.4	76.4
167.5°	57.9	57.9	57.9	58.7	59.4	57.9	*57.9*	61.0	66.4	70.2	70.2
170°	54.8	54.8	54.0	54.8	54.8	54.8	*57.9*	61.0	63.3	63.3	63.3
172.5°	55.6	55.6	54.8	55.6	55.6	54.8	*58.7*	62.5	61.0	60.2	60.2
175°	57.1	57.1	57.1	57.9	57.9	56.4	*55.6*	57.1	58.7	58.7	57.9
177.5°	57.1	57.1	56.4	57.1	56.4	54.8	*54.0*	53.3	53.3	52.5	52.5
180°	53.3	53.3	53.3	53.3	53.3	53.3	*53.3*	53.3	53.3	53.3	53.3

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8
2.5°	377.5	325.8	287.2	317.3	383.6	416.8	383.6	291.8	205.3	179.9
5°	226.2	220.0	198.4	193.8	202.2	194.5	216.1	204.6	162.1	163.6
7.5°	169.1	204.6	197.6	141.3	132.0	123.5	130.5	149.0	153.6	143.6
10°	196.1	176.8	154.4	143.6	156.7	169.1	160.6	139.7	120.4	115.0
12.5°	216.1	214.6	216.9	194.5	159.8	147.4	142.8	153.6	186.8	194.5
15°	232.4	214.6	198.4	193.8	170.6	158.2	152.1	149.0	142.8	138.2
17.5°	248.6	219.2	201.5	183.7	172.1	160.6	147.4	140.5	139.7	140.5
20°	259.4	232.4	211.5	191.4	176.8	161.3	148.2	142.0	142.0	142.0
22.5°	272.5	246.2	223.9	198.4	181.4	164.4	153.6	147.4	146.7	146.7
25°	294.1	264.8	238.5	210.7	192.2	176.8	162.1	154.4	152.1	151.3
27.5°	318.8	286.4	254.7	226.2	206.9	189.9	170.6	159.0	155.9	155.2
30°	350.5	313.4	273.3	243.2	219.2	203.0	179.9	166.0	159.8	159.0
32.5°	402.2	353.5	301.1	267.9	239.3	217.7	192.2	175.2	165.2	162.9
35°	501.8	442.3	363.6	315.7	270.2	236.2	203.0	180.6	170.6	169.1
37.5°	612.9	522.6	446.2	390.6	335.0	277.9	220.0	189.1	176.8	174.5
40°	660.8	575.1	494.0	406.8	394.5	349.7	270.2	210.0	185.3	181.4
42.5°	765.8	643.8	534.2	359.7	388.3	386.0	333.5	257.1	208.4	199.2
45°	901.6	732.6	594.4	384.4	391.4	377.5	342.0	297.2	253.2	243.2
47.5°	1123.2	819.0	613.7	432.3	440.0	406.8	358.2	313.4	281.8	277.9
50°	1604.1	1073.0	684.7	523.4	548.1	471.6	411.4	372.8	335.0	328.1
52.5°	2180.7	1271.4	758.0	653.1	741.8	632.2	541.1	470.1	467.8	458.5
55°	2788.2	1347.8	855.3	795.9	934.0	839.1	750.3	685.5	718.7	721.8
57.5°	3470.6	1429.6	995.8	982.7	1167.2	1015.9	941.0	958.7	1194.2	1286.0
60°	3925.3	1496.8	1117.0	1137.1	1380.2	1232.8	1176.4	1215.8	1615.7	1783.2
62.5°	4127.5	1462.8	1176.4	1211.2	1472.1	1364.8	1355.5	1376.4	1715.2	1871.9
65°	*4155.3*	*1412.6*	*1208.8*	*1238.9*	*1488.3*	*1378.7*	*1339.3*	*1310.0*	*1535.4*	*1627.2*
67.5°	3814.1	1306.1	1183.4	1215.0	1414.9	1283.7	1185.7	1119.3	1249.8	1259.0
70°	3103.9	1166.4	1096.9	1108.5	1208.8	1074.5	981.9	924.8	954.9	942.5
72.5°	2406.9	1028.2	977.3	950.2	980.4	865.3	755.7	726.4	754.9	741.8
75°	1828.7	918.6	862.2	771.2	820.6	666.2	544.2	518.0	530.3	512.6
77.5°	1344.7	740.3	674.7	570.5	638.4	483.2	367.4	340.4	345.1	328.1
80°	981.1	547.3	493.3	409.1	460.1	343.5	265.5	260.9	260.1	249.3
82.5°	758.0	434.6	394.5	352.0	360.5	303.4	251.6	243.9	243.9	227.7
85°	703.2	420.7	379.8	349.7	352.0	294.1	239.3	234.7	237.0	220.0
87.5°	656.9	411.4	378.2	342.0	324.2	266.3	215.4	220.8	222.3	207.6
90°	563.5	365.9	335.8	301.1	280.2	226.2	193.0	203.0	204.6	191.4
92.5°	494.0	314.2	288.7	261.7	252.4	212.3	185.3	193.0	193.0	181.4
95°	393.7	257.1	245.5	232.4	230.0	198.4	172.9	176.8	175.2	165.2
97.5°	320.4	223.1	213.1	200.7	193.0	169.8	152.1	155.9	156.7	149.8
100°	281.8	206.1	192.2	178.3	170.6	152.8	138.9	145.9	150.5	144.4
102.5°	263.2	196.8	181.4	166.7	160.6	144.4	131.2	137.4	143.6	138.2
105°	250.1	189.9	173.7	160.6	152.8	136.6	123.5	125.1	132.8	129.7
107.5°	233.1	189.9	169.1	155.9	146.7	132.0	116.6	115.0	119.6	118.9
110°	226.9	189.9	166.0	152.8	142.8	129.7	115.8	109.6	111.9	111.9

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

Scaled Data Report

REPORT NUMBER: P981462
CATALOG NUMBER: FFX-CLB-80-727-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	221.5	188.4	162.9	147.4	138.9	128.1	114.2	105.0	107.3	108.8
115°	209.2	173.7	153.6	137.4	128.9	117.3	108.1	101.1	101.9	103.4
117.5°	202.2	160.6	149.0	134.3	128.1	121.2	112.7	99.6	99.6	101.1
120°	202.2	158.2	152.8	147.4	144.4	132.8	118.9	99.6	97.3	97.3
122.5°	199.2	176.0	166.7	154.4	145.9	130.5	113.5	97.3	95.7	95.7
125°	182.9	168.3	153.6	138.9	128.9	116.6	106.5	98.0	94.9	94.9
127.5°	174.5	151.3	137.4	125.8	118.9	112.7	106.5	98.0	94.2	93.4
130°	176.8	152.8	135.1	125.8	120.4	114.2	107.3	96.5	90.3	89.5
132.5°	178.3	147.4	130.5	122.7	118.9	114.2	105.0	91.1	84.1	84.1
135°	161.3	132.8	125.1	119.6	117.3	113.5	99.6	86.5	81.1	80.3
137.5°	146.7	128.9	123.5	118.1	114.2	108.8	98.0	84.9	78.0	77.2
140°	140.5	125.8	118.1	108.1	103.4	92.6	84.9	77.2	74.9	74.1
142.5°	133.5	118.1	108.8	100.4	98.0	94.2	89.5	77.2	69.5	69.5
145°	159.8	142.0	131.2	122.7	111.9	104.2	89.5	74.1	64.1	62.5
147.5°	167.5	151.3	140.5	128.9	108.8	91.9	75.6	64.8	61.0	59.4
150°	146.7	132.8	121.2	108.8	91.1	79.5	68.7	61.8	60.2	60.2
152.5°	116.6	108.8	96.5	88.0	76.4	69.5	63.3	59.4	57.9	57.9
155°	96.5	90.3	83.4	76.4	70.2	65.6	61.8	58.7	57.1	57.1
157.5°	93.4	84.1	78.0	71.8	67.9	63.3	60.2	57.1	56.4	55.6
160°	84.9	74.1	68.7	64.8	64.1	62.5	60.2	57.9	57.1	56.4
162.5°	78.7	67.9	64.1	61.8	64.1	65.6	64.1	61.0	58.7	57.9
165°	74.1	64.1	61.0	61.0	65.6	67.9	64.1	61.0	61.0	60.2
167.5°	68.7	65.6	61.8	61.0	64.8	69.5	70.2	64.8	62.5	61.8
170°	64.1	64.8	64.8	62.5	63.3	67.2	68.7	67.2	64.1	63.3
172.5°	61.0	62.5	65.6	64.1	64.1	65.6	67.2	65.6	63.3	62.5
175°	57.9	58.7	57.1	57.9	60.2	62.5	61.8	61.0	60.2	60.2
177.5°	52.5	52.5	53.3	53.3	54.0	56.4	57.1	57.1	58.7	58.7
180°	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

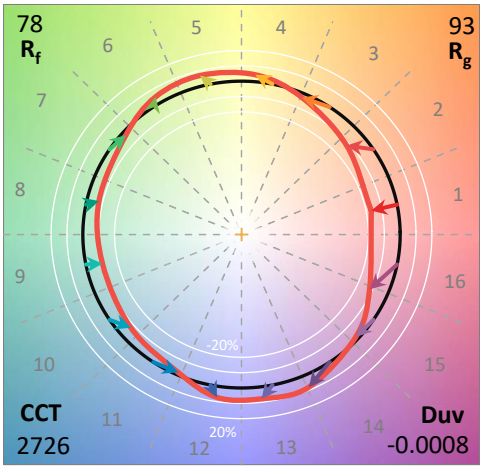
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

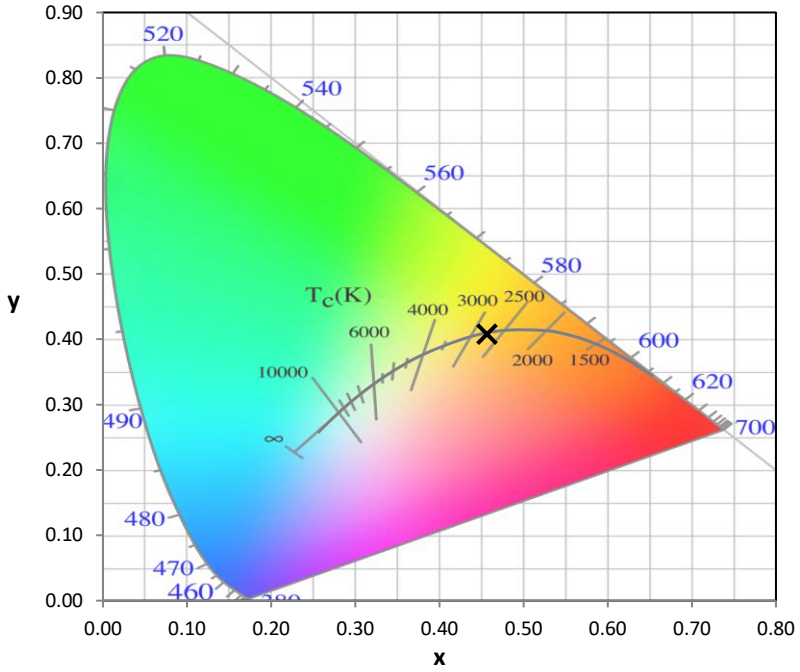
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

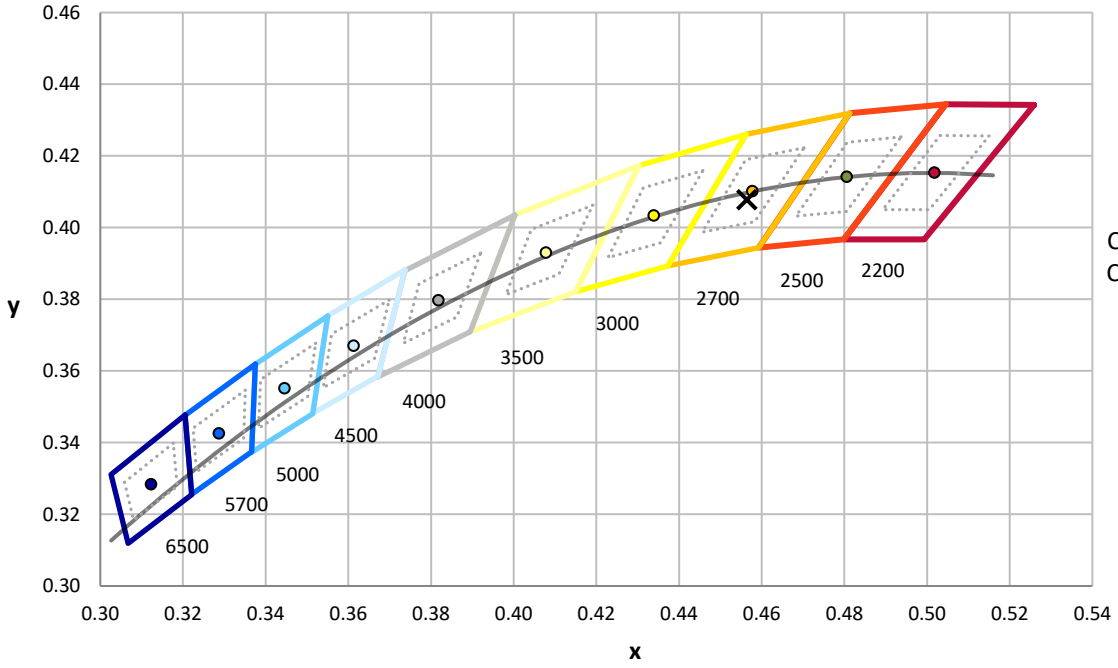
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

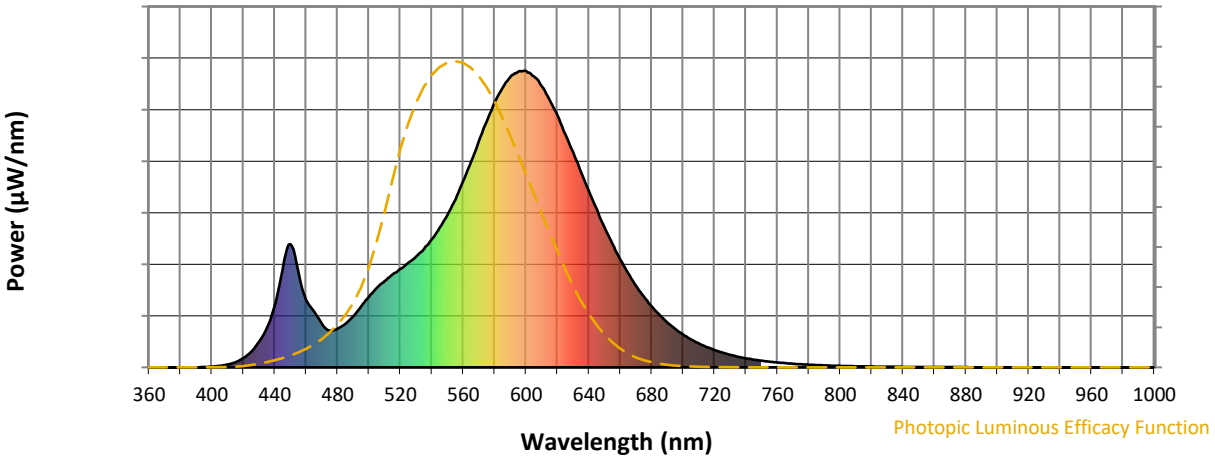


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

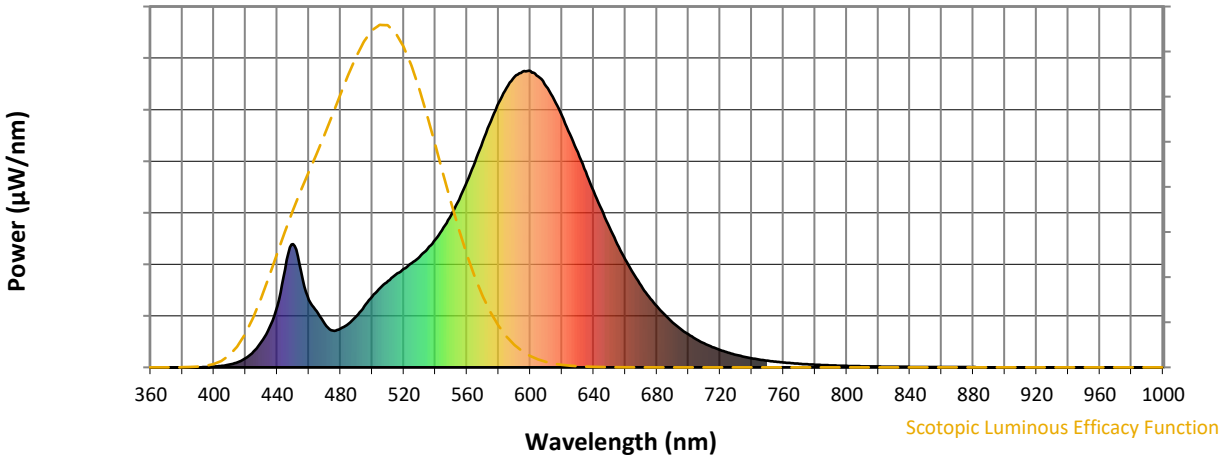


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

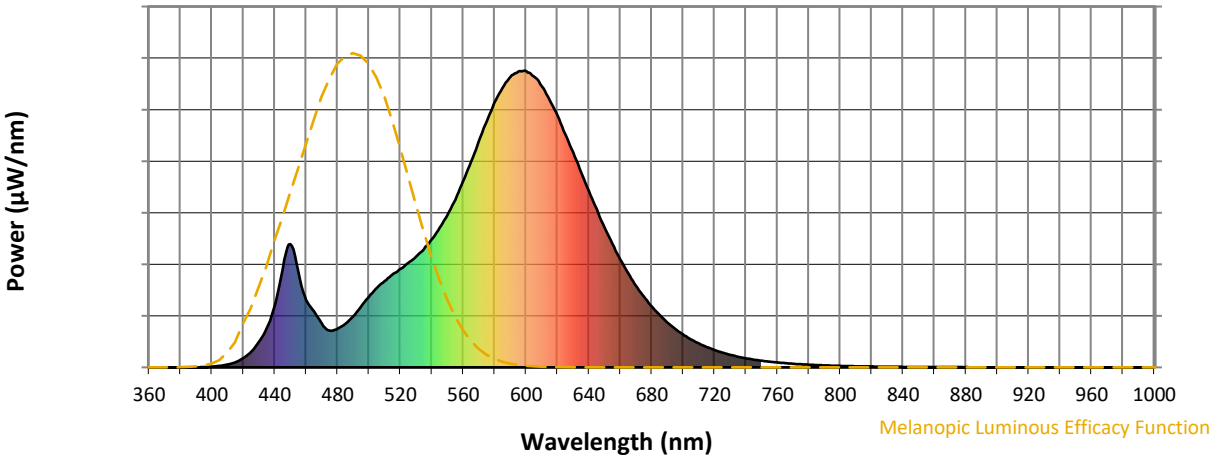


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

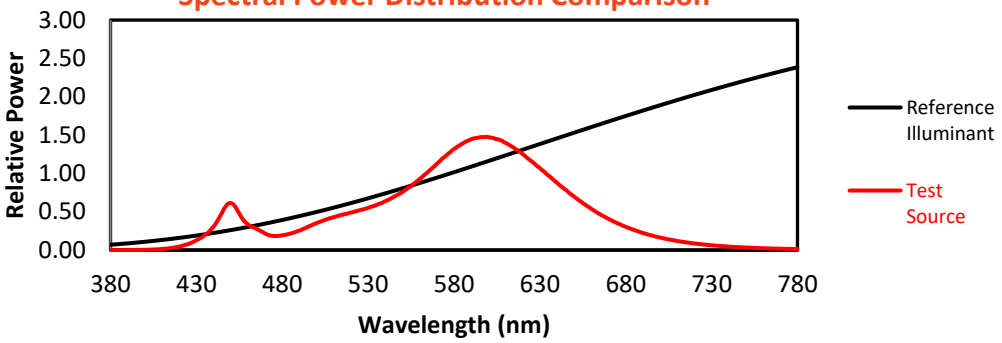
REPORT NUMBER: SP1-2501-332-3

TM-30-18

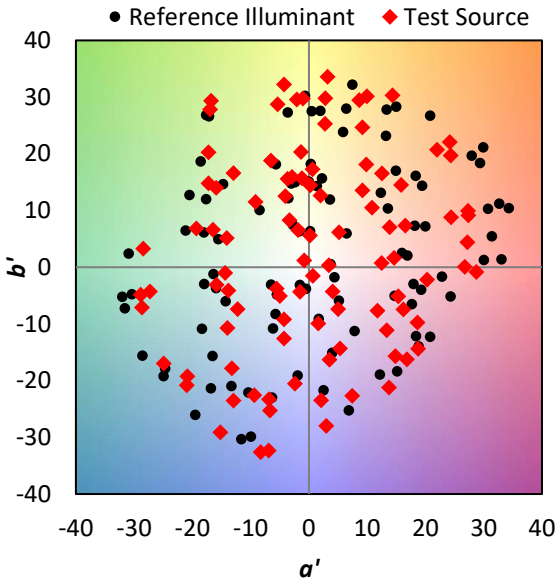
Summary

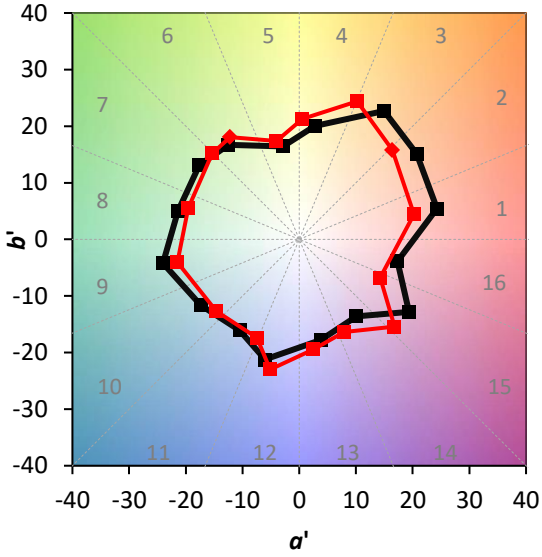
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

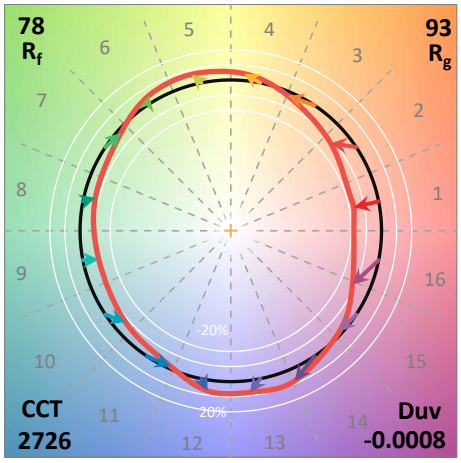
Spectral Power Distribution Comparison

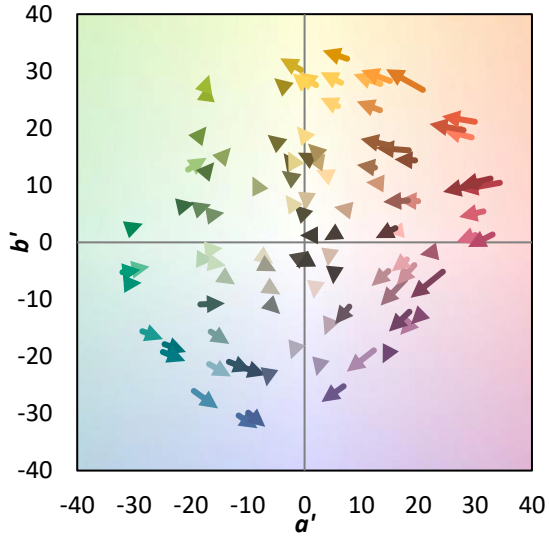


Color Vector Graphics







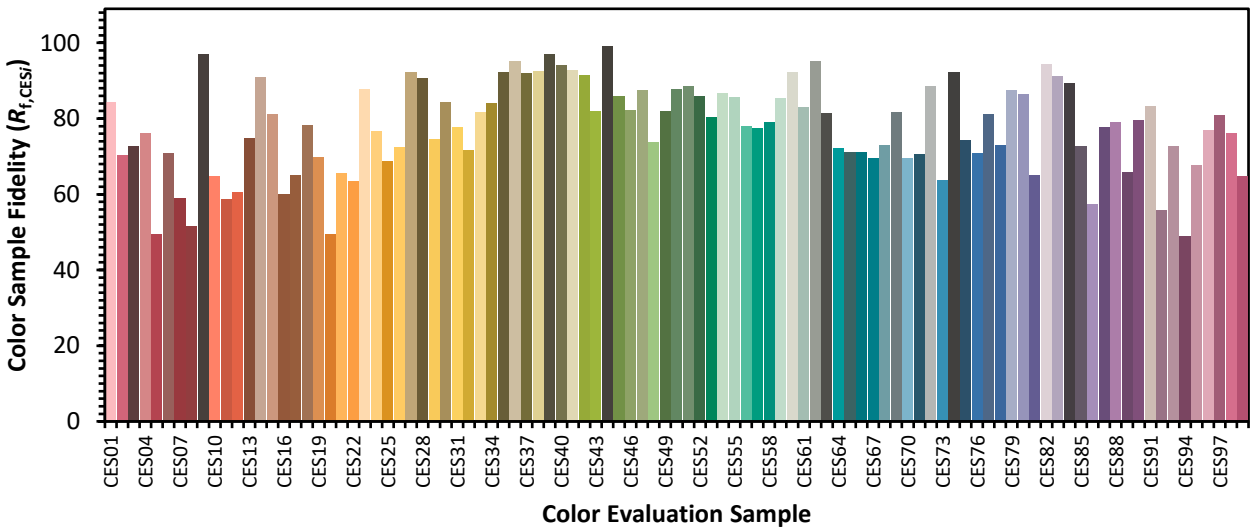


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

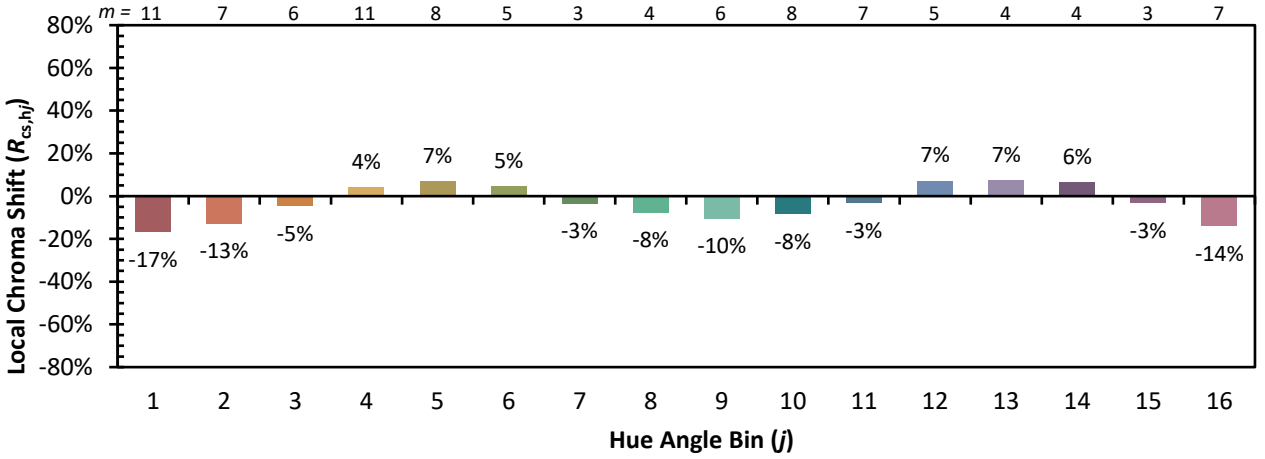
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

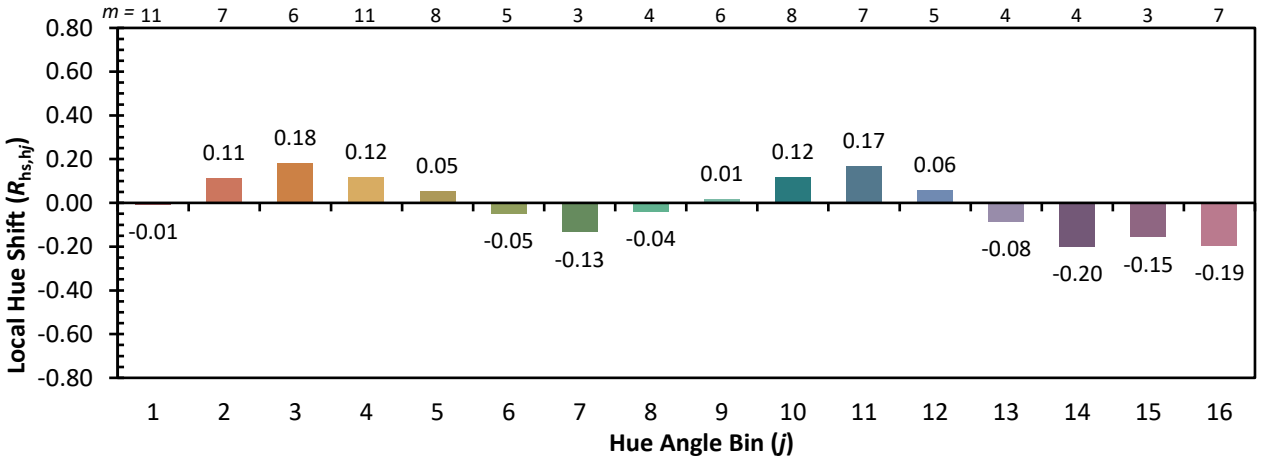


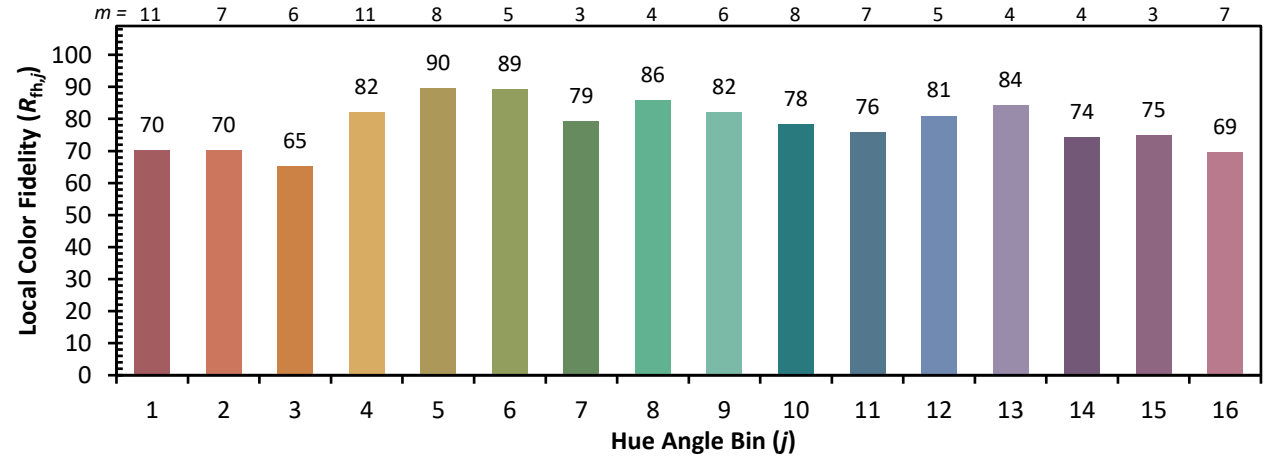
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Color Rendition by Hue-Angle Bin



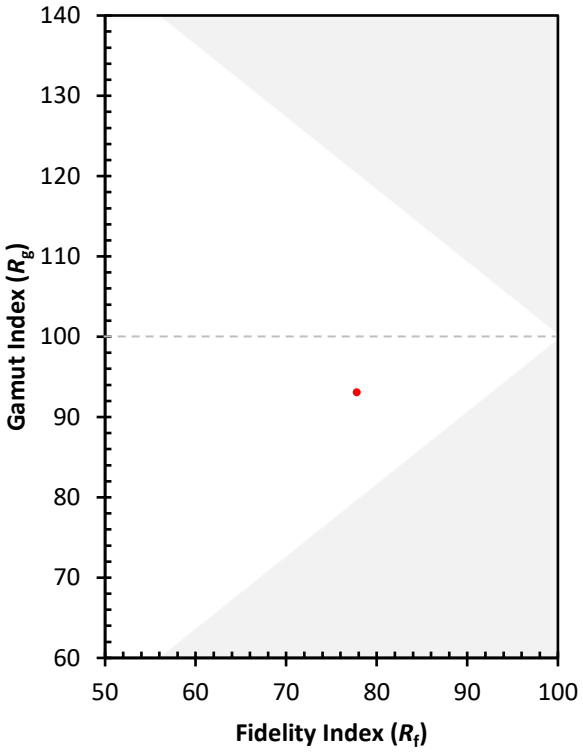


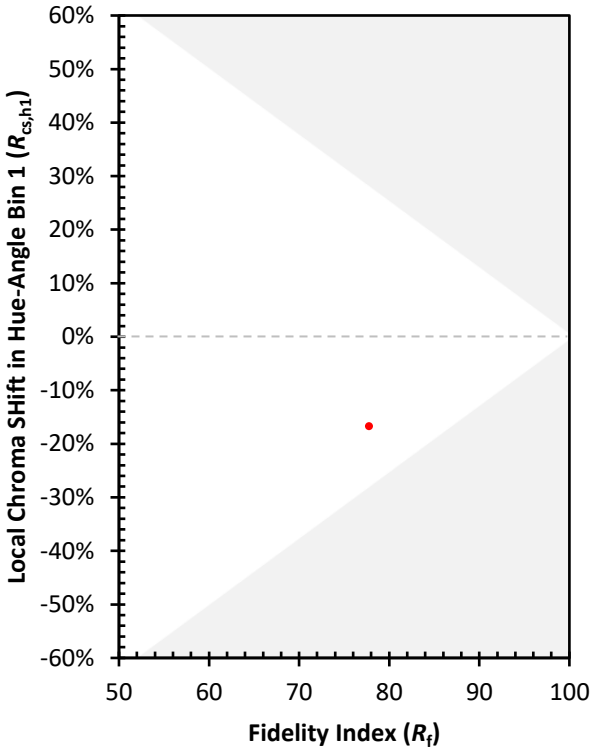


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Measure Comparisons





(END OF REPORT)