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: P981464

Luminaire Tested: **FFX-CLB-60-727-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:	P981464
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-727-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:	8570.6 lumens
Efficiency:	N/A
Efficacy:	141.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - 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

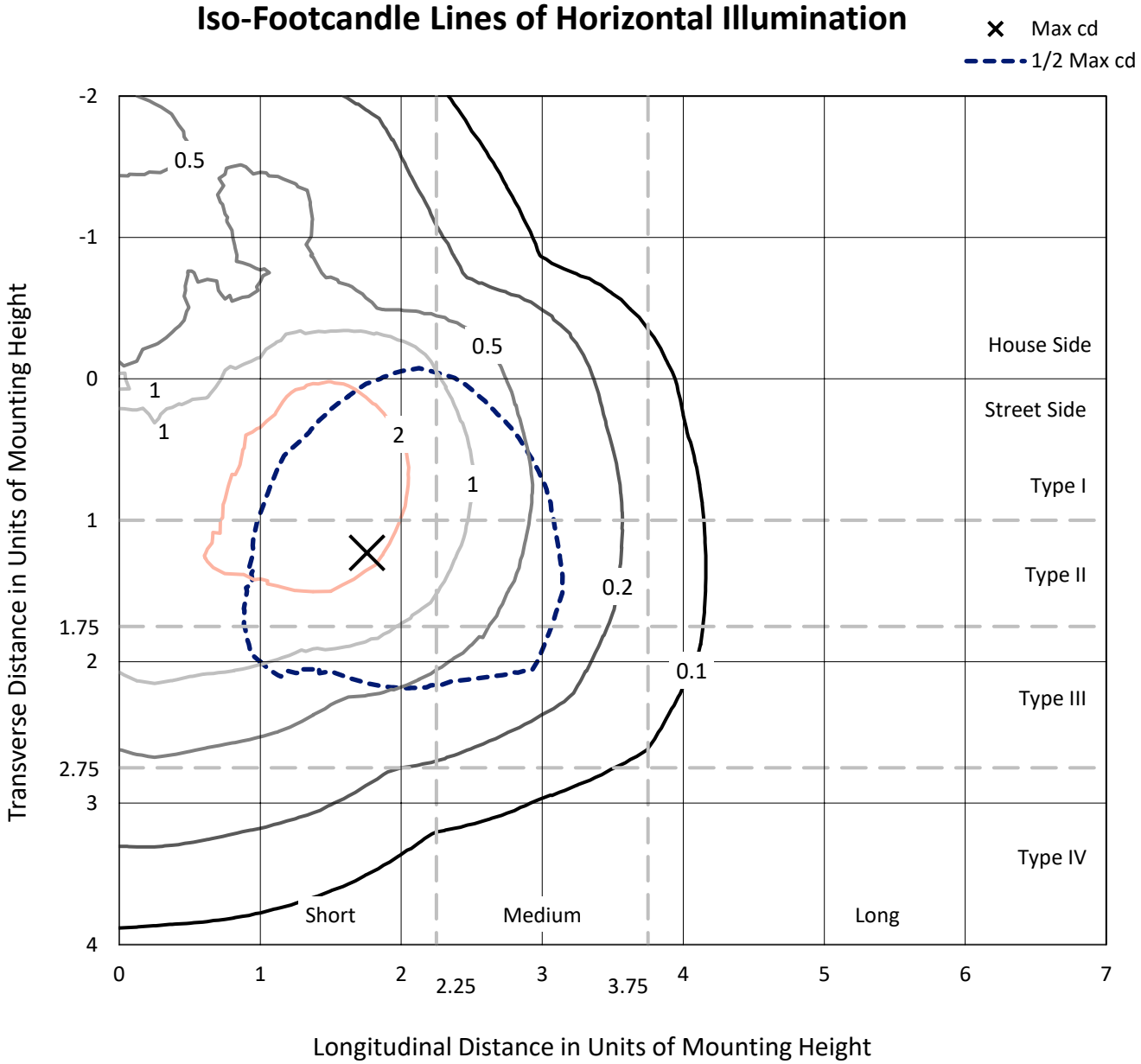


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Iso-Footcandle Lines of Horizontal Illumination



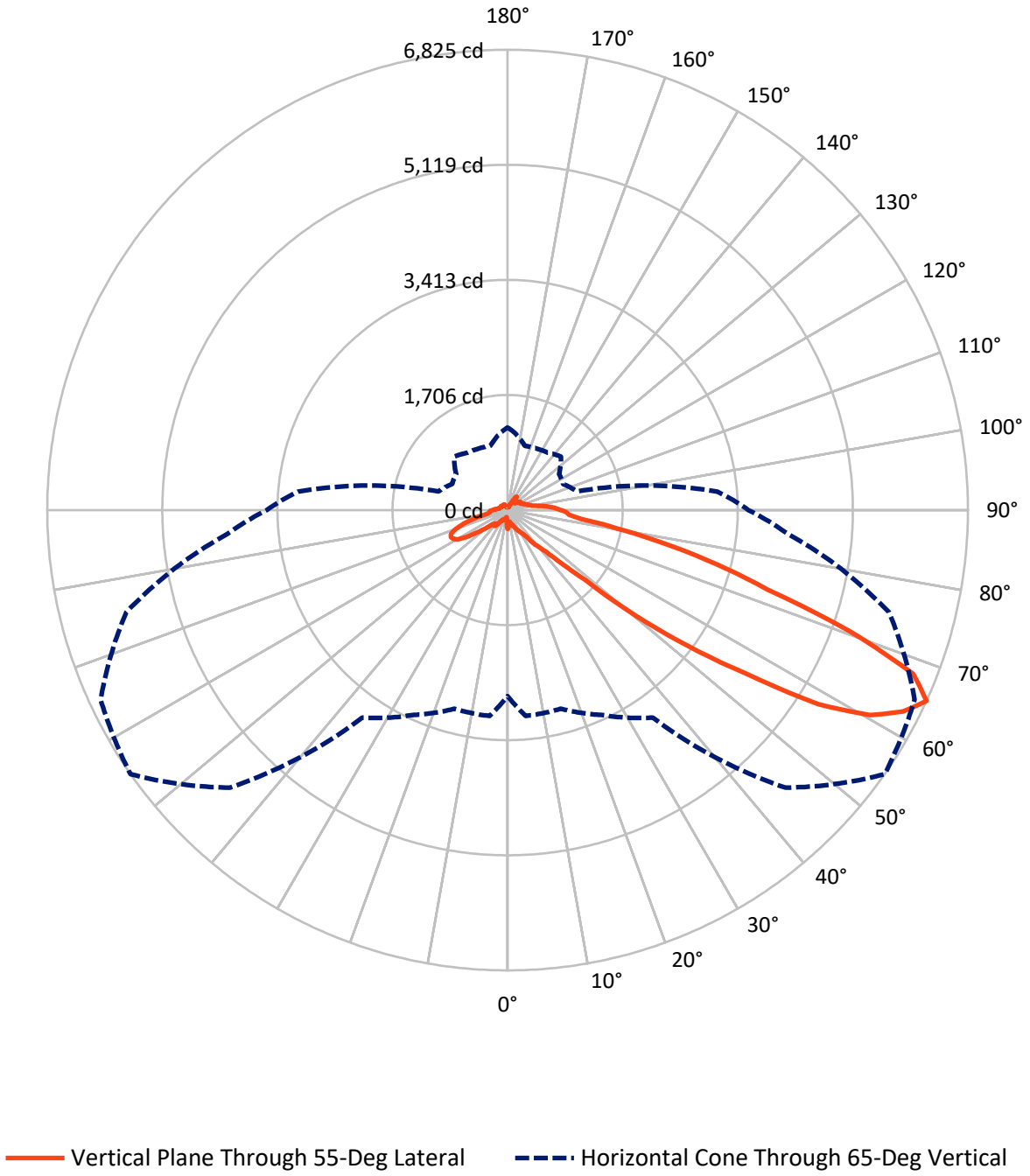
Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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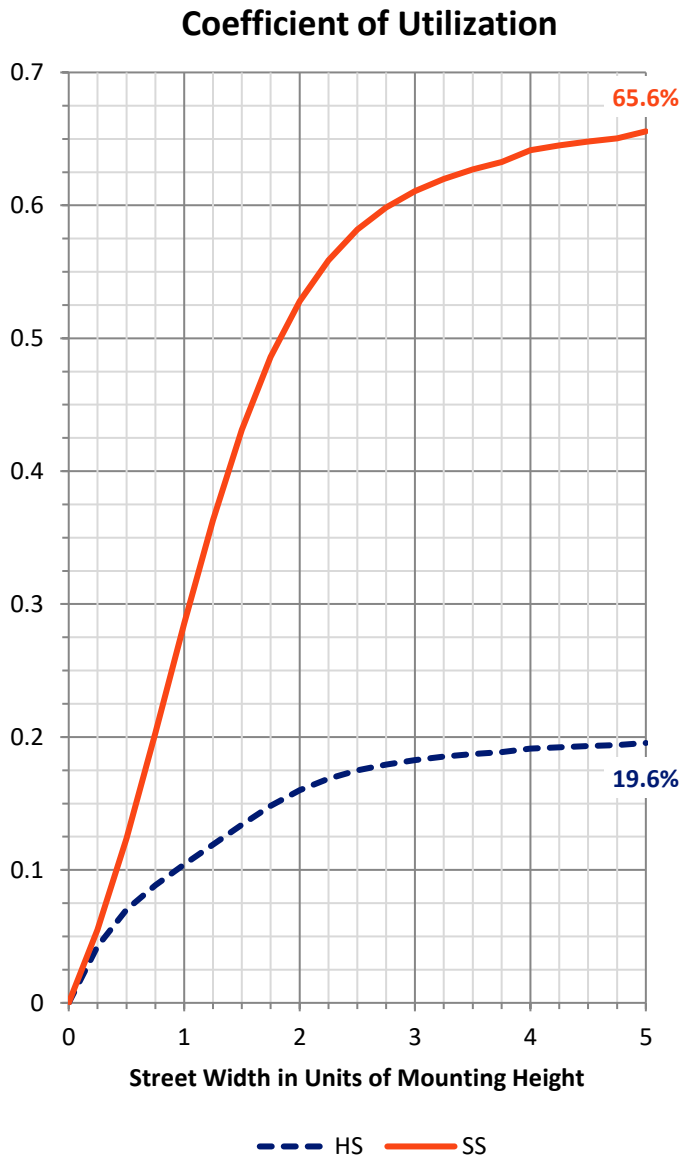
REPORT NUMBER: P981464
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1741.1	339.7	2080.9
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	5809.8	679.9	6489.7
	% Fixture	67.8	7.9	75.7
Total	Lumens	7551.0	1019.7	8570.6
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	0.2
10°-20°	52.4	0.6
20°-30°	107.1	1.3
30°-40°	232.3	2.7
40°-50°	563.9	6.6
50°-60°	1760.3	20.5
60°-70°	2797.1	32.6
70°-80°	1490.6	17.4
80°-90°	531.1	6.2
90°-100°	323.1	3.8
100°-110°	191.3	2.2
110°-120°	149.4	1.7
120°-130°	124.6	1.5
130°-140°	91.0	1.1
140°-150°	83.7	1.0
150°-160°	37.8	0.4
160°-170°	14.5	0.2
170°-180°	4.3	0.0
0°-90°	7551.0	88.1
0°-180°	8570.6	100.0



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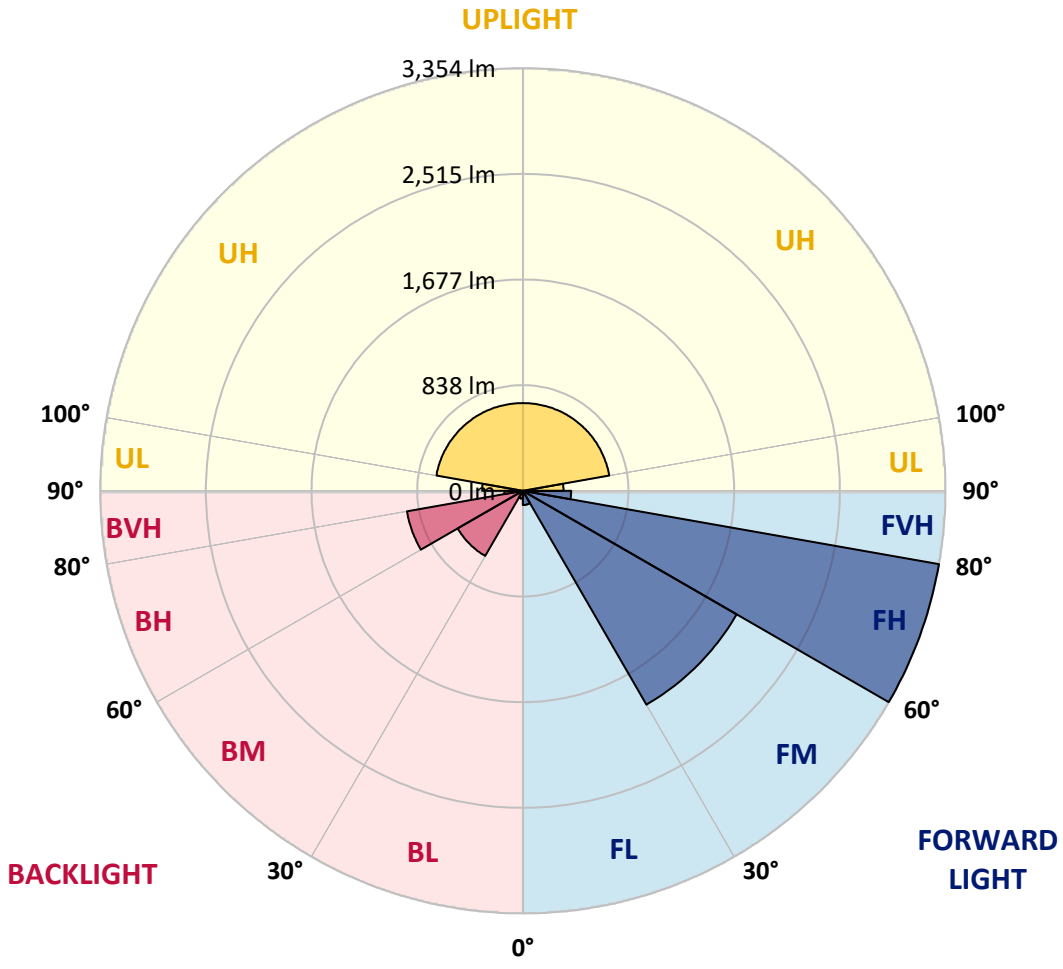
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	113.3	1.3			
FM	(30°-60°)	1959.7	22.9			
FH	(60°-80°)	3353.6	39.1			G2/5000
FVH	(80°-90°)	383.3	4.5			G3/500
BL	(0°-30°)	62.4	0.7	B0/110		
BM	(30°-60°)	596.8	7.0	B1/1000		
BH	(60°-80°)	934.1	10.9	B2/1000		G2/1000
BVH	(80°-90°)	147.9	1.7			G2/225
UL	(90°-100°)	323.1	3.8		U3/500	
UH	(100°-180°)	696.5	8.1		U4/1000	

BUG Rating: B2-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1
2.5°	166.0	167.2	185.8	200.3	218.3	213.1	213.1	252.5	278.7	317.0	313.5
5°	177.6	170.1	173.6	186.4	210.7	222.3	209.6	166.0	137.6	149.2	163.1
7.5°	194.5	192.7	188.7	176.5	167.2	192.2	227.0	202.0	152.7	128.3	123.1
10°	199.1	199.7	198.5	199.7	204.3	193.3	173.6	157.9	153.3	150.9	149.2
12.5°	240.9	240.3	242.7	239.8	228.7	215.4	219.4	207.8	185.2	169.5	165.5
15°	281.0	279.8	279.2	268.2	250.2	228.7	218.3	223.5	209.0	191.0	182.9
17.5°	297.2	297.2	285.6	269.9	258.9	243.8	235.7	229.9	218.9	207.3	197.4
20°	290.8	290.3	278.7	272.3	273.4	266.5	259.5	250.8	239.8	221.2	209.0
22.5°	287.4	287.4	283.3	281.6	291.4	289.1	287.4	276.3	261.8	234.5	218.9
25°	310.0	308.3	303.0	303.0	312.3	319.9	322.8	314.1	290.3	249.0	234.5
27.5°	332.1	331.5	324.5	326.3	332.1	347.2	351.8	347.7	315.2	261.2	248.5
30°	358.8	354.7	348.9	359.4	358.2	379.1	385.5	390.1	348.9	286.2	271.1
32.5°	387.2	384.9	380.2	393.6	398.2	417.4	422.6	445.8	394.8	330.9	315.2
35°	435.4	433.7	445.8	472.0	471.4	507.4	493.5	528.3	480.1	411.6	395.9
37.5°	652.5	642.7	628.7	603.8	602.0	651.9	636.3	663.5	595.6	499.3	481.8
40°	679.2	677.5	671.1	642.7	626.4	711.7	722.2	802.9	690.8	580.5	546.9
42.5°	663.5	665.9	751.2	769.2	736.1	841.2	858.6	1000.3	798.2	704.2	642.7
45°	800.0	803.5	831.3	844.1	841.8	1105.9	1148.9	1322.5	986.3	877.8	764.0
47.5°	916.1	903.9	954.4	1051.9	1118.7	1417.1	1555.2	1821.7	1325.4	1165.1	954.4
50°	1258.6	1255.7	1377.6	1484.4	1550.6	2038.8	2464.4	2757.0	1942.5	1689.4	1331.7
52.5°	1490.8	1589.5	1706.2	1953.5	2013.3	2774.4	3350.3	3584.8	2684.4	2218.8	1818.2
55°	1726.5	1868.7	1999.4	2384.3	2582.8	3604.5	4260.0	4324.4	3525.6	2697.7	2294.3
57.5°	2164.8	2404.6	2488.7	2795.8	3086.1	4561.3	5430.3	5361.8	4392.9	3253.3	2826.0
60°	2561.3	2849.8	2825.5	3126.2	3499.5	5340.9	6173.4	6101.4	5186.5	3746.8	3234.7
62.5°	2694.3	2985.1	2952.0	3279.4	3756.6	5758.9	6578.6	6455.5	5706.1	4063.2	3461.1
65°	2756.4	3065.2	3049.0	3354.3	3756.6	5819.3	6825.3	6657.0	5851.2	4185.1	3570.3
67.5°	2701.8	2999.6	3010.1	3281.2	3535.4	5383.3	6488.6	6259.9	5487.8	3892.5	3375.2
70°	2361.6	2570.0	2543.9	2789.5	2814.4	4309.3	5385.0	5136.0	4458.5	3245.8	2792.9
72.5°	1951.2	2001.7	1980.2	2135.2	2164.2	3156.4	4024.8	3883.8	3329.4	2415.0	2134.0
75°	1555.8	1547.7	1591.8	1627.8	1597.6	2316.9	3187.1	3026.9	2463.2	1818.8	1642.3
77.5°	1076.3	1014.2	1130.3	1141.3	1093.7	1540.7	2351.2	2290.2	1765.4	1340.5	1210.4
80°	604.9	611.9	694.9	744.2	726.8	980.5	1635.9	1595.9	1205.8	937.0	832.5
82.5°	466.7	487.6	526.5	563.7	539.3	750.0	1106.5	1109.4	881.8	684.4	625.2
85°	513.2	524.2	529.4	530.6	511.4	697.2	917.2	905.1	748.9	573.0	554.4
87.5°	500.4	512.0	513.8	514.4	497.5	664.1	868.5	849.3	714.1	550.3	521.9
90°	429.0	448.8	451.1	466.2	446.4	593.3	764.6	745.4	643.8	496.4	469.7
92.5°	368.6	379.1	390.1	408.1	387.2	516.7	684.4	660.6	576.5	448.8	412.2
95°	337.3	343.1	352.4	359.4	335.0	438.9	572.4	547.4	467.9	361.1	328.6
97.5°	271.1	276.3	280.4	289.1	272.3	347.7	444.1	420.9	366.9	287.4	263.0
100°	231.6	235.1	239.8	245.6	231.6	291.4	364.6	354.1	305.4	242.7	227.0
102.5°	211.9	214.8	222.9	222.9	214.2	266.5	325.7	317.6	274.6	220.0	209.6
105°	204.3	204.9	211.9	209.0	203.2	248.5	303.6	293.2	257.2	209.0	196.8
107.5°	194.5	195.1	203.8	199.1	194.5	230.5	275.2	270.5	238.0	195.1	184.6
110°	184.6	186.4	197.4	193.3	190.4	216.5	257.8	249.0	227.6	188.7	180.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	177.1	178.2	188.7	185.8	183.4	207.3	*239.2*	239.2	222.3	188.7	177.1
115°	170.7	173.0	181.7	175.9	171.8	195.1	*220.6*	221.8	207.8	180.0	168.4
117.5°	159.6	164.9	169.5	171.8	167.2	186.9	*209.6*	208.4	200.9	173.6	165.5
120°	181.7	177.6	181.1	185.2	177.6	193.3	*212.5*	212.5	204.9	170.7	163.7
122.5°	189.8	184.0	187.5	183.4	182.9	203.2	*227.0*	228.7	213.1	175.9	158.5
125°	168.4	166.0	162.0	160.8	165.5	184.6	*206.1*	213.6	196.8	168.4	148.0
127.5°	144.0	141.1	135.8	138.7	147.5	166.6	*177.6*	181.7	174.7	156.2	141.1
130°	132.9	132.4	136.4	141.7	148.6	164.9	*168.4*	174.2	174.2	152.1	143.4
132.5°	121.3	121.9	134.7	152.7	157.9	161.4	*153.8*	164.9	170.1	155.0	145.1
135°	119.6	120.2	127.1	141.7	142.2	144.6	*145.1*	159.1	162.5	148.0	137.0
137.5°	130.6	130.6	125.4	128.3	134.7	152.1	*157.9*	168.9	166.0	139.9	123.7
140°	144.0	141.1	124.8	125.4	136.4	157.9	*165.5*	172.4	168.9	137.0	117.8
142.5°	119.0	120.2	123.1	134.1	146.9	195.6	*189.3*	206.7	199.7	145.1	114.9
145°	185.8	186.4	182.9	187.5	195.6	260.1	*240.3*	268.2	276.3	189.8	136.4
147.5°	203.2	205.5	199.1	195.1	218.3	238.0	*216.0*	239.2	254.9	199.1	146.3
150°	158.5	157.9	153.8	159.6	175.3	174.2	*162.5*	170.7	177.1	152.1	125.4
152.5°	112.6	110.9	108.6	109.1	127.7	123.1	*119.6*	126.6	126.6	116.7	100.4
155°	93.5	93.5	92.3	95.2	105.7	97.5	*94.6*	93.5	92.3	89.4	83.0
157.5°	79.0	80.7	79.0	82.4	89.4	81.9	*80.1*	78.4	79.0	79.0	77.2
160°	65.6	65.6	64.4	70.2	72.6	66.8	*63.9*	62.7	62.7	66.2	66.2
162.5°	55.2	55.2	55.7	58.1	59.8	55.7	*54.0*	54.0	55.7	61.0	61.0
165°	47.6	47.6	48.2	49.9	51.1	48.8	*47.6*	48.2	52.8	57.5	57.5
167.5°	43.5	43.5	43.5	44.1	44.7	43.5	*43.5*	45.9	49.9	52.8	52.8
170°	41.2	41.2	40.6	41.2	41.2	41.2	*43.5*	45.9	47.6	47.6	47.6
172.5°	41.8	41.8	41.2	41.8	41.8	41.2	*44.1*	47.0	45.9	45.3	45.3
175°	43.0	43.0	43.0	43.5	43.5	42.4	*41.8*	43.0	44.1	44.1	43.5
177.5°	43.0	43.0	42.4	43.0	42.4	41.2	*40.6*	40.1	40.1	39.5	39.5
180°	40.1	40.1	40.1	40.1	40.1	40.1	*40.1*	40.1	40.1	40.1	40.1

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1
2.5°	283.9	245.0	216.0	238.6	288.5	313.5	288.5	219.4	154.4	135.3
5°	170.1	165.5	149.2	145.7	152.1	146.3	162.5	153.8	121.9	123.1
7.5°	127.1	153.8	148.6	106.2	99.3	92.9	98.1	112.0	115.5	108.0
10°	147.5	132.9	116.1	108.0	117.8	127.1	120.8	105.1	90.6	86.5
12.5°	162.5	161.4	163.1	146.3	120.2	110.9	107.4	115.5	140.5	146.3
15°	174.7	161.4	149.2	145.7	128.3	119.0	114.4	112.0	107.4	103.9
17.5°	186.9	164.9	151.5	138.2	129.5	120.8	110.9	105.7	105.1	105.7
20°	195.1	174.7	159.1	144.0	132.9	121.3	111.5	106.8	106.8	106.8
22.5°	204.9	185.2	168.4	149.2	136.4	123.7	115.5	110.9	110.3	110.3
25°	221.2	199.1	179.4	158.5	144.6	132.9	121.9	116.1	114.4	113.8
27.5°	239.8	215.4	191.6	170.1	155.6	142.8	128.3	119.6	117.3	116.7
30°	263.6	235.7	205.5	182.9	164.9	152.7	135.3	124.8	120.2	119.6
32.5°	302.5	265.9	226.4	201.4	180.0	163.7	144.6	131.8	124.2	122.5
35°	377.3	332.6	273.4	237.4	203.2	177.6	152.7	135.8	128.3	127.1
37.5°	460.9	393.0	335.5	293.7	252.0	209.0	165.5	142.2	132.9	131.2
40°	496.9	432.5	371.5	305.9	296.7	263.0	203.2	157.9	139.3	136.4
42.5°	575.9	484.2	401.7	270.5	292.0	290.3	250.8	193.3	156.7	149.8
45°	678.1	550.9	447.0	289.1	294.3	283.9	257.2	223.5	190.4	182.9
47.5°	844.7	615.9	461.5	325.1	330.9	305.9	269.4	235.7	211.9	209.0
50°	1206.3	806.9	514.9	393.6	412.2	354.7	309.4	280.4	252.0	246.7
52.5°	1640.0	956.1	570.1	491.1	557.9	475.5	407.0	353.5	351.8	344.8
55°	2096.9	1013.6	643.2	598.5	702.4	631.0	564.3	515.5	540.5	542.8
57.5°	2610.1	1075.1	748.9	739.0	877.8	764.0	707.7	721.0	898.1	967.2
60°	2952.0	1125.7	840.0	855.1	1038.0	927.1	884.7	914.3	1215.1	1341.0
62.5°	3104.1	1100.1	884.7	910.9	1107.1	1026.4	1019.4	1035.1	1289.9	1407.8
65°	*3125.0*	*1062.4*	*909.1*	*931.8*	*1119.3*	*1036.8*	*1007.2*	*985.2*	*1154.7*	*1223.8*
67.5°	2868.4	982.3	890.0	913.8	1064.1	965.4	891.7	841.8	939.9	946.9
70°	2334.3	877.2	824.9	833.6	909.1	808.1	738.4	695.5	718.1	708.8
72.5°	1810.1	773.3	735.0	714.6	737.3	650.8	568.3	546.3	567.8	557.9
75°	1375.3	690.8	648.5	580.0	617.1	501.0	409.3	389.5	398.8	385.5
77.5°	1011.3	556.7	507.4	429.0	480.1	363.4	276.3	256.0	259.5	246.7
80°	737.9	411.6	371.0	307.7	346.0	258.3	199.7	196.2	195.6	187.5
82.5°	570.1	326.8	296.7	264.7	271.1	228.1	189.3	183.4	183.4	171.3
85°	528.9	316.4	285.6	263.0	264.7	221.2	180.0	176.5	178.2	165.5
87.5°	494.0	309.4	284.5	257.2	243.8	200.3	162.0	166.0	167.2	156.2
90°	423.8	275.2	252.5	226.4	210.7	170.1	145.1	152.7	153.8	144.0
92.5°	371.5	236.3	217.1	196.8	189.8	159.6	139.3	145.1	145.1	136.4
95°	296.1	193.3	184.6	174.7	173.0	149.2	130.0	132.9	131.8	124.2
97.5°	240.9	167.8	160.2	150.9	145.1	127.7	114.4	117.3	117.8	112.6
100°	211.9	155.0	144.6	134.1	128.3	114.9	104.5	109.7	113.2	108.6
102.5°	198.0	148.0	136.4	125.4	120.8	108.6	98.7	103.3	108.0	103.9
105°	188.1	142.8	130.6	120.8	114.9	102.8	92.9	94.0	99.9	97.5
107.5°	175.3	142.8	127.1	117.3	110.3	99.3	87.7	86.5	90.0	89.4
110°	170.7	142.8	124.8	114.9	107.4	97.5	87.1	82.4	84.2	84.2

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

Scaled Data Report

REPORT NUMBER: P981464
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	166.6	141.7	122.5	110.9	104.5	96.4	85.9	79.0	80.7	81.9
115°	157.3	130.6	115.5	103.3	96.9	88.2	81.3	76.0	76.6	77.8
117.5°	152.1	120.8	112.0	101.0	96.4	91.1	84.8	74.9	74.9	76.0
120°	152.1	119.0	114.9	110.9	108.6	99.9	89.4	74.9	73.1	73.1
122.5°	149.8	132.4	125.4	116.1	109.7	98.1	85.3	73.1	72.0	72.0
125°	137.6	126.6	115.5	104.5	96.9	87.7	80.1	73.7	71.4	71.4
127.5°	131.2	113.8	103.3	94.6	89.4	84.8	80.1	73.7	70.8	70.2
130°	132.9	114.9	101.6	94.6	90.6	85.9	80.7	72.6	67.9	67.3
132.5°	134.1	110.9	98.1	92.3	89.4	85.9	79.0	68.5	63.3	63.3
135°	121.3	99.9	94.0	90.0	88.2	85.3	74.9	65.0	61.0	60.4
137.5°	110.3	96.9	92.9	88.8	85.9	81.9	73.7	63.9	58.6	58.1
140°	105.7	94.6	88.8	81.3	77.8	69.7	63.9	58.1	56.3	55.7
142.5°	100.4	88.8	81.9	75.5	73.7	70.8	67.3	58.1	52.2	52.2
145°	120.2	106.8	98.7	92.3	84.2	78.4	67.3	55.7	48.2	47.0
147.5°	126.0	113.8	105.7	96.9	81.9	69.1	56.9	48.8	45.9	44.7
150°	110.3	99.9	91.1	81.9	68.5	59.8	51.7	46.4	45.3	45.3
152.5°	87.7	81.9	72.6	66.2	57.5	52.2	47.6	44.7	43.5	43.5
155°	72.6	67.9	62.7	57.5	52.8	49.3	46.4	44.1	43.0	43.0
157.5°	70.2	63.3	58.6	54.0	51.1	47.6	45.3	43.0	42.4	41.8
160°	63.9	55.7	51.7	48.8	48.2	47.0	45.3	43.5	43.0	42.4
162.5°	59.2	51.1	48.2	46.4	48.2	49.3	48.2	45.9	44.1	43.5
165°	55.7	48.2	45.9	45.9	49.3	51.1	48.2	45.9	45.9	45.3
167.5°	51.7	49.3	46.4	45.9	48.8	52.2	52.8	48.8	47.0	46.4
170°	48.2	48.8	48.8	47.0	47.6	50.5	51.7	50.5	48.2	47.6
172.5°	45.9	47.0	49.3	48.2	48.2	49.3	50.5	49.3	47.6	47.0
175°	43.5	44.1	43.0	43.5	45.3	47.0	46.4	45.9	45.3	45.3
177.5°	39.5	39.5	40.1	40.1	40.6	42.4	43.0	43.0	44.1	44.1
180°	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1

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

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-3

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

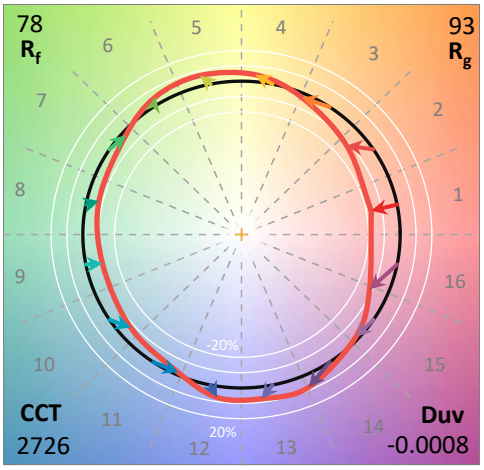
Test Information

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

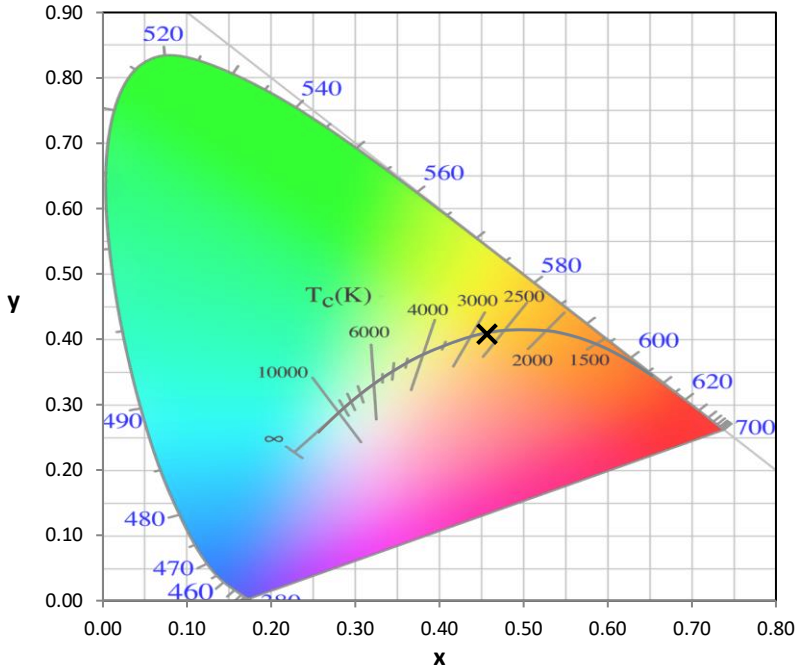
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

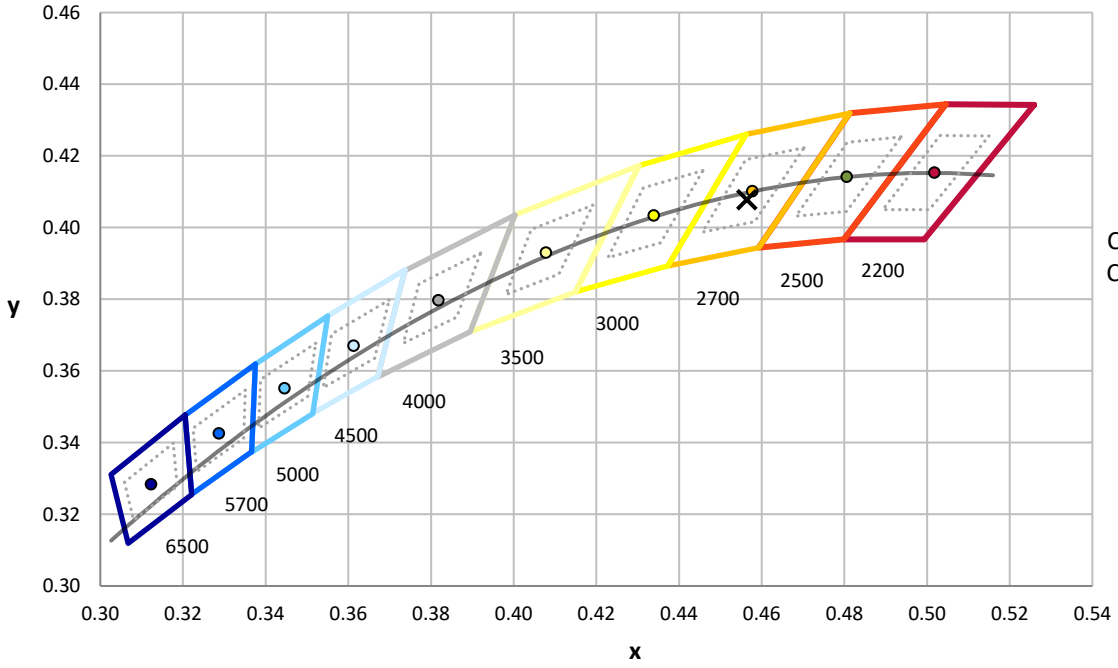
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

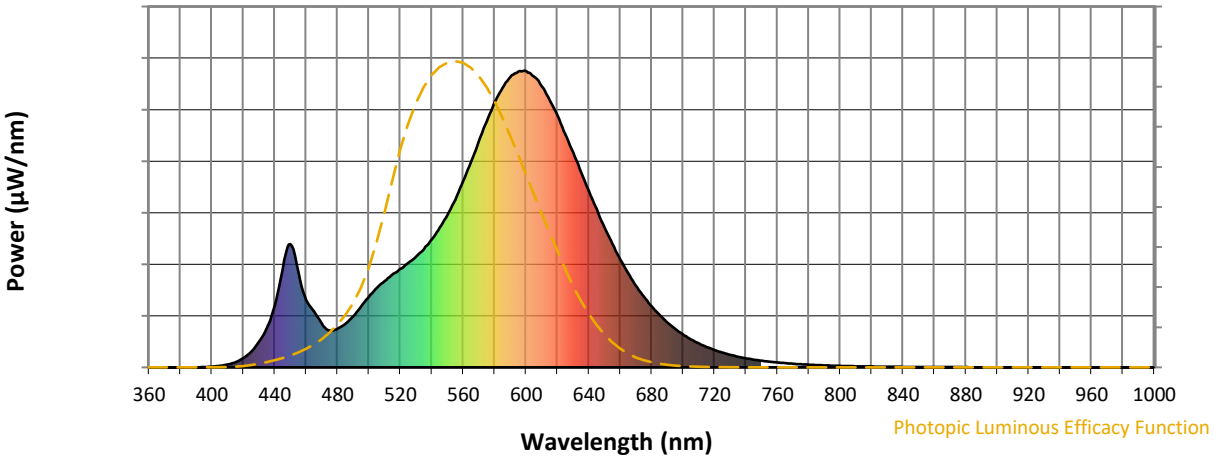


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

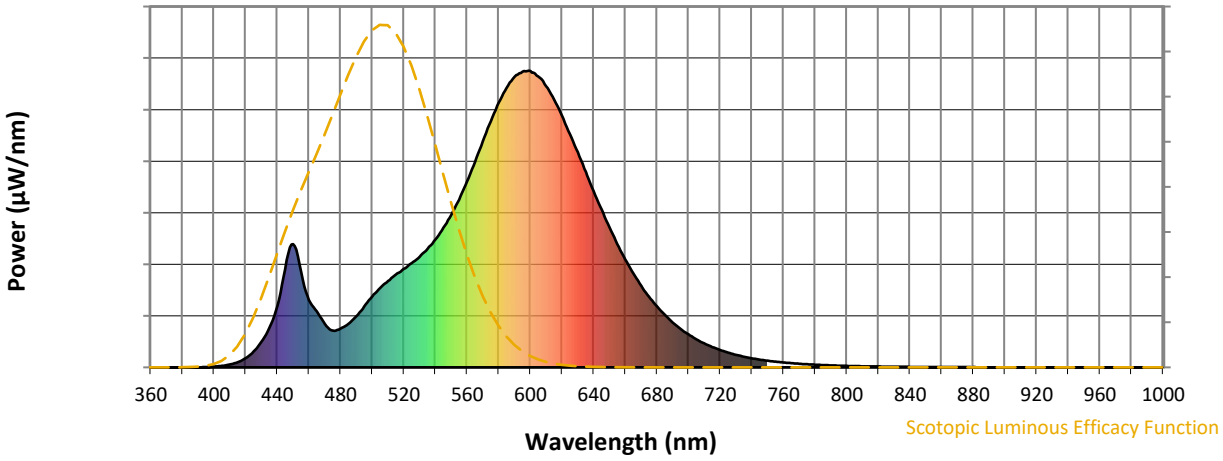


Photopic Lumens: NR

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

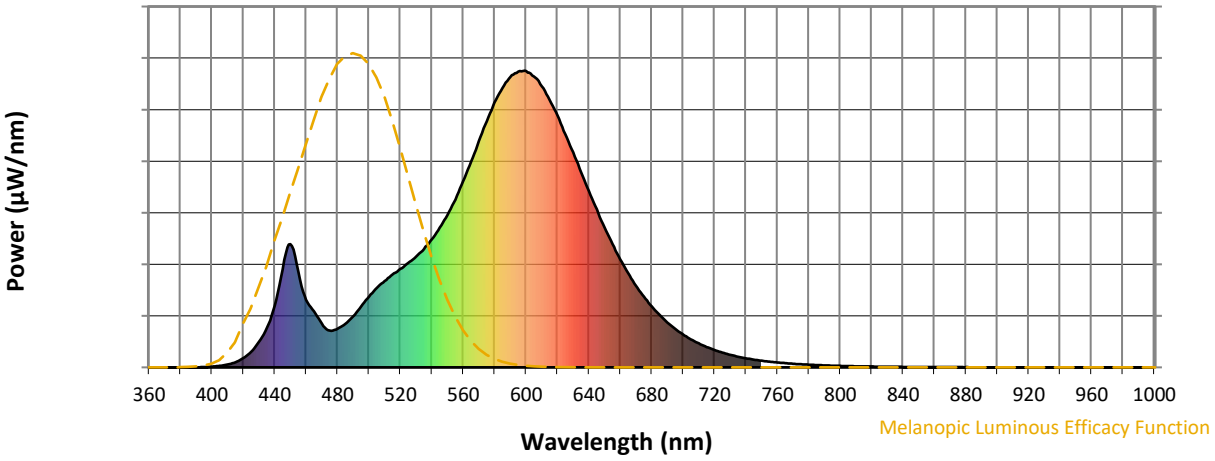


Scotopic Lumens: NR **S/P: 1.16**

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			

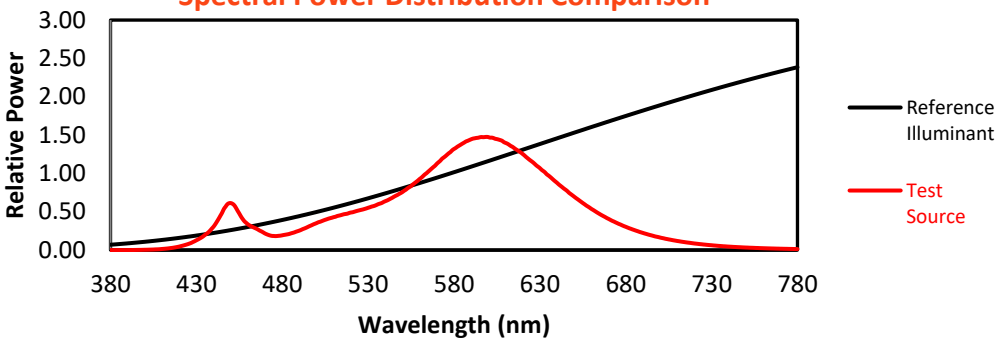
REPORT NUMBER: SP1-2501-332-3

TM-30-18

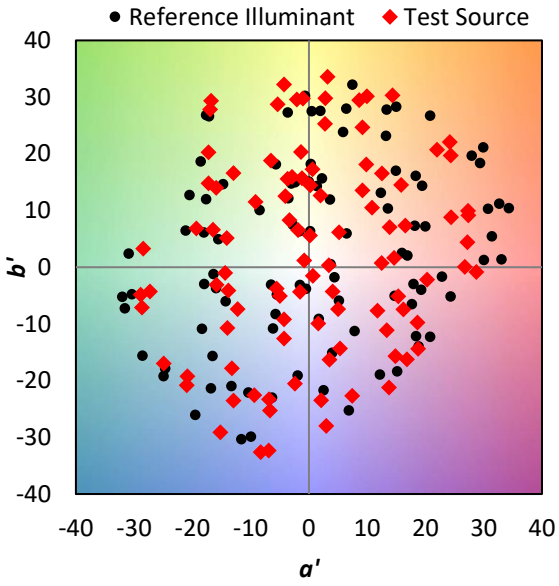
Summary

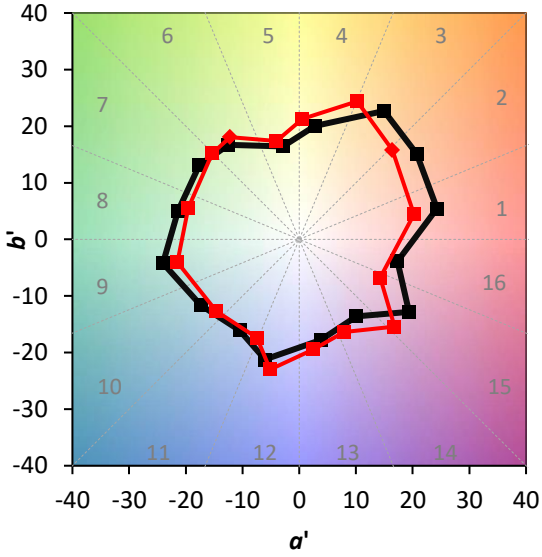
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

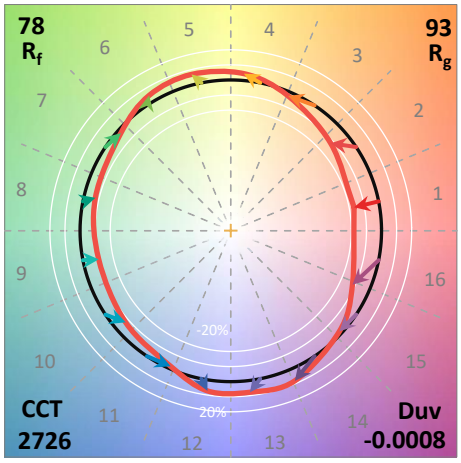
Spectral Power Distribution Comparison

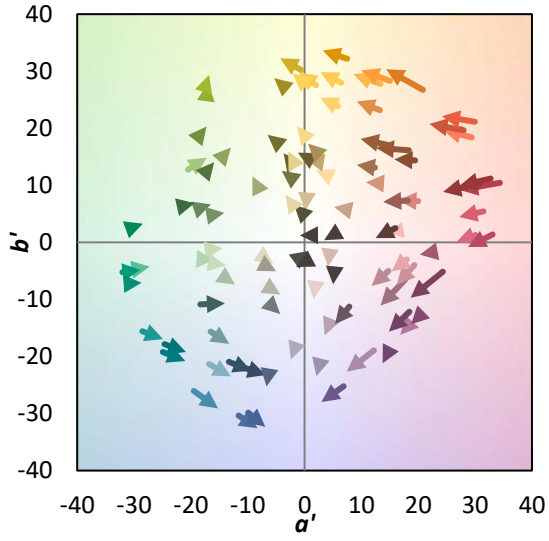


Color Vector Graphics







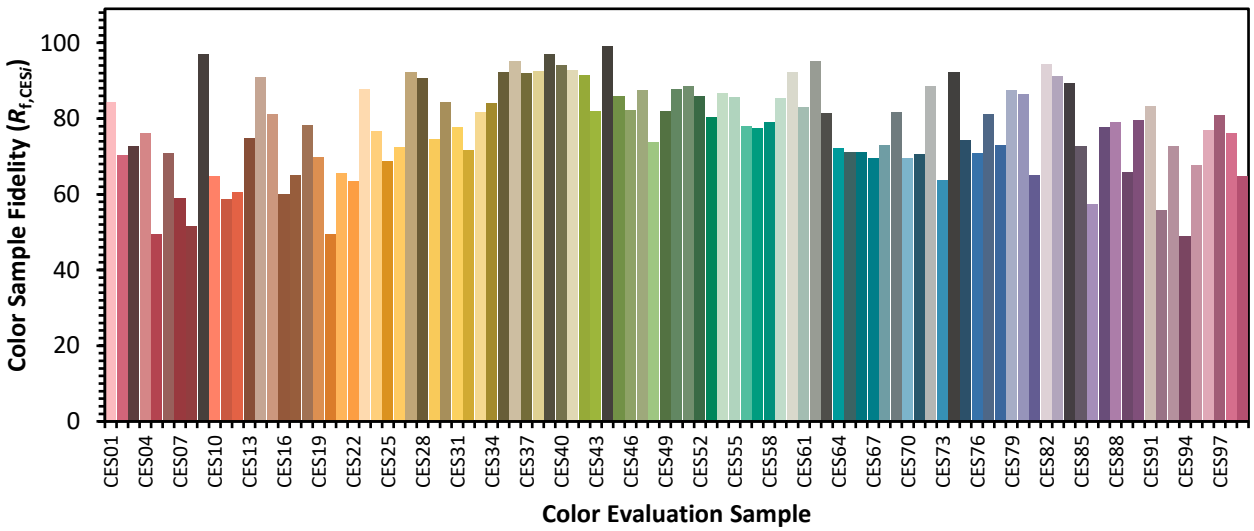


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

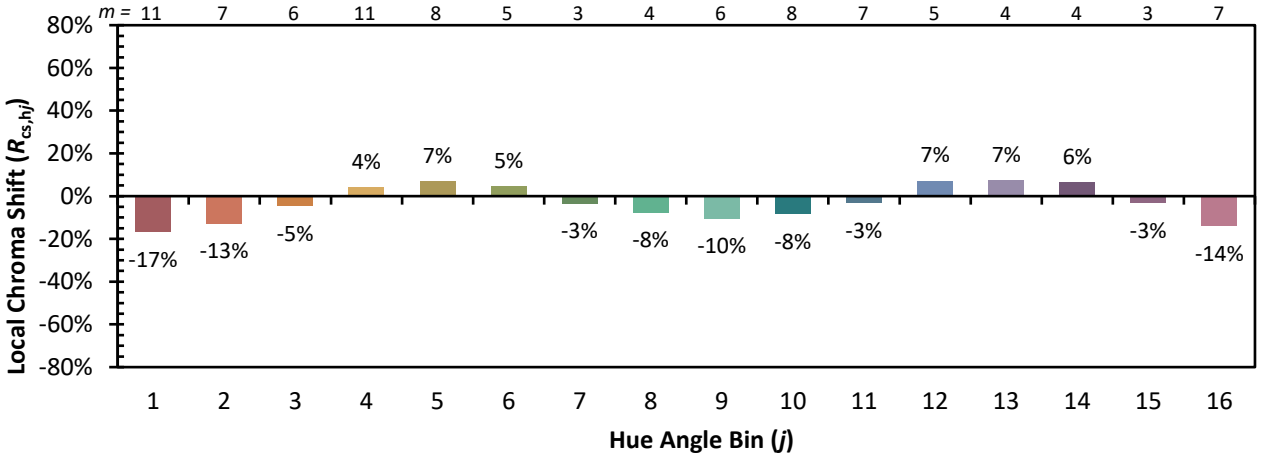
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 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	

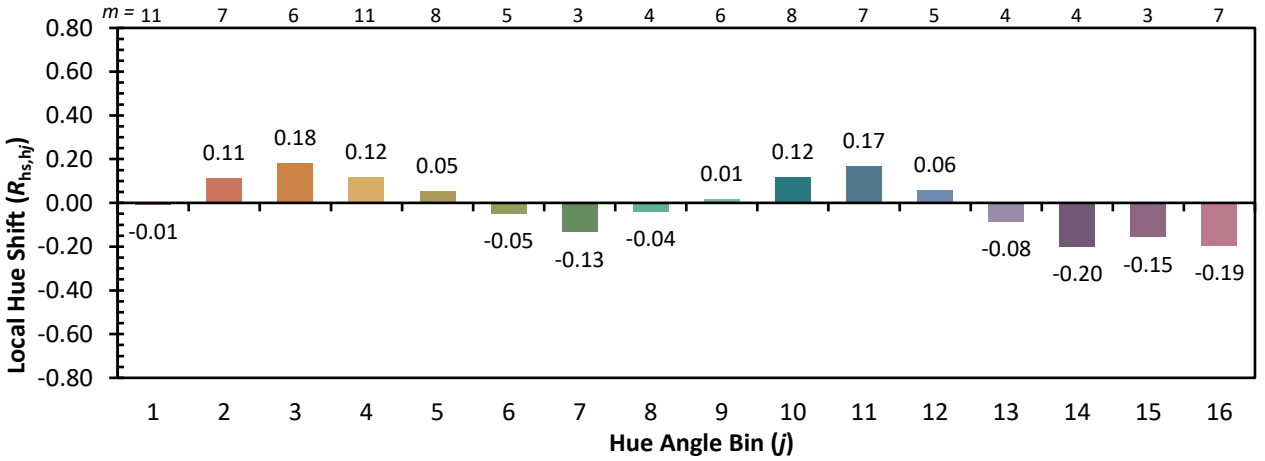


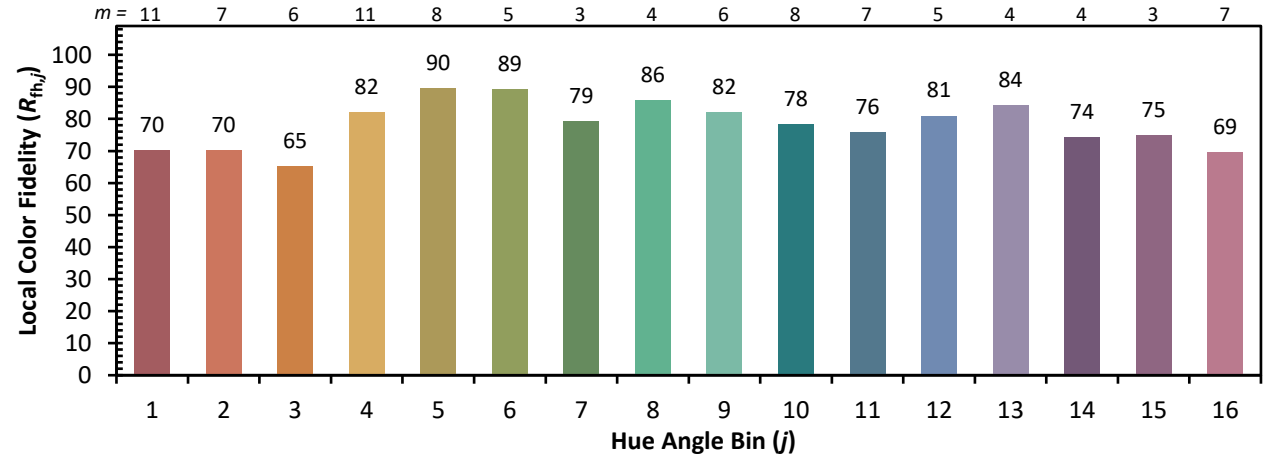
REPORT NUMBER: SP1-2501-332-3

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Color Rendition by Hue-Angle Bin



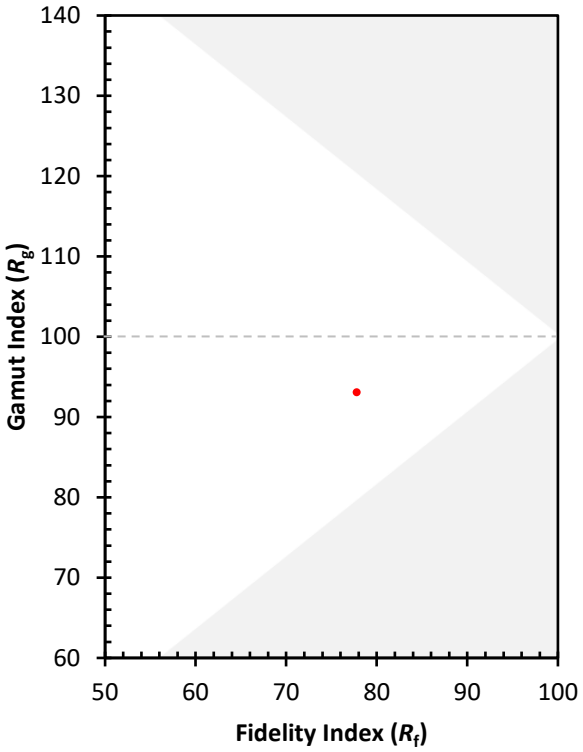


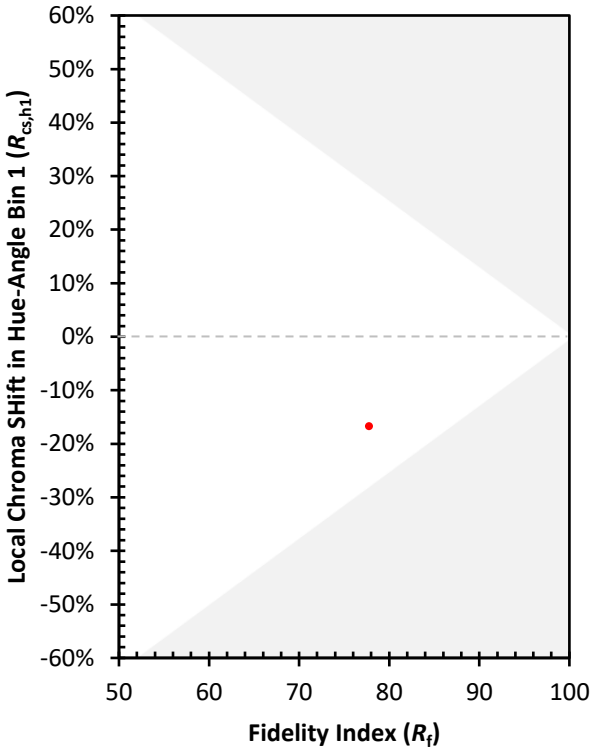


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Measure Comparisons





(END OF REPORT)