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: P1046203

Luminaire Tested: **FFX-CLB-70-730-U-FR-T4-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046203
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-730-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10131.7 lumens
Efficiency:	N/A
Efficacy:	142.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U5 - 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

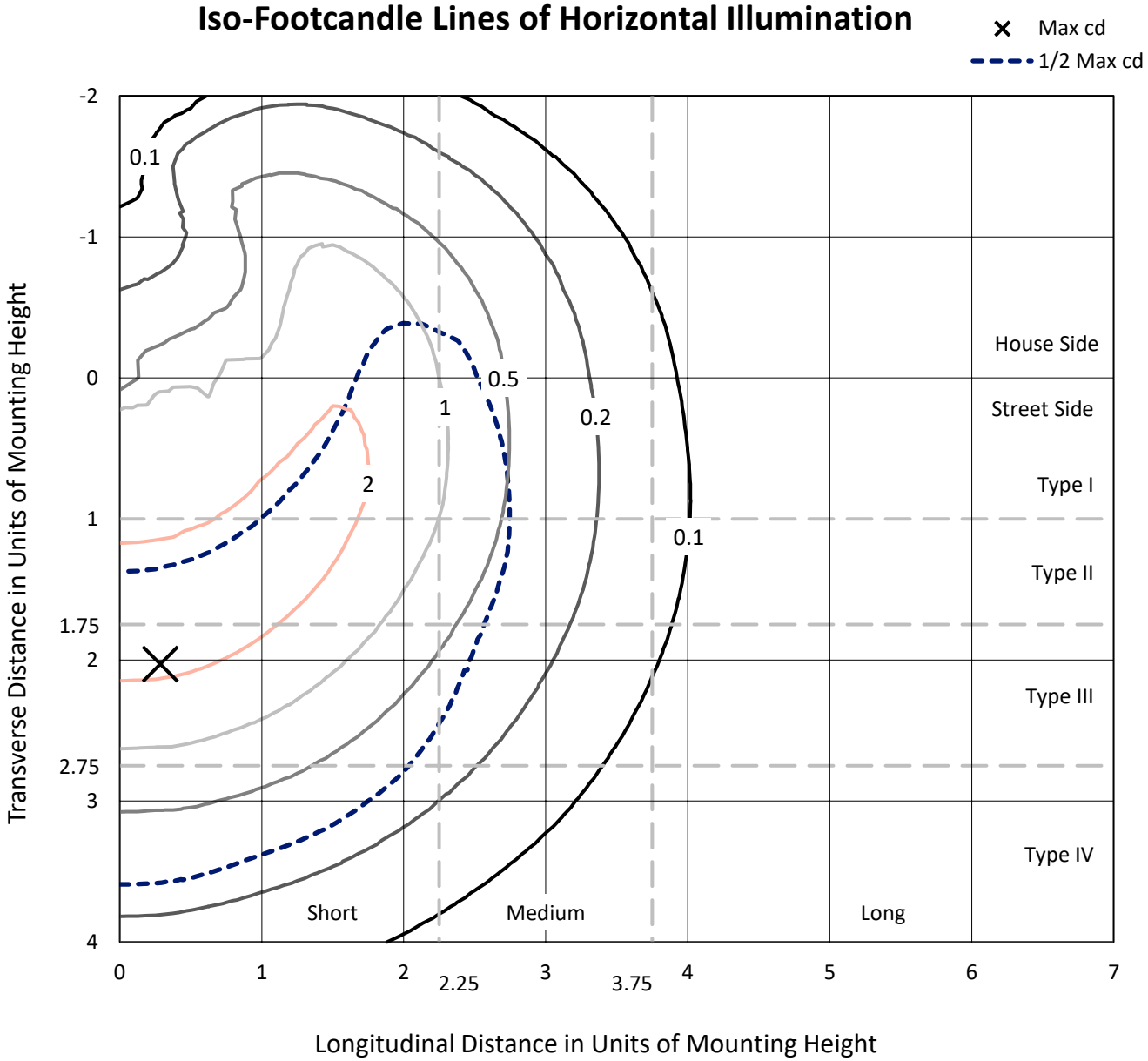


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Iso-Footcandle Lines of Horizontal Illumination



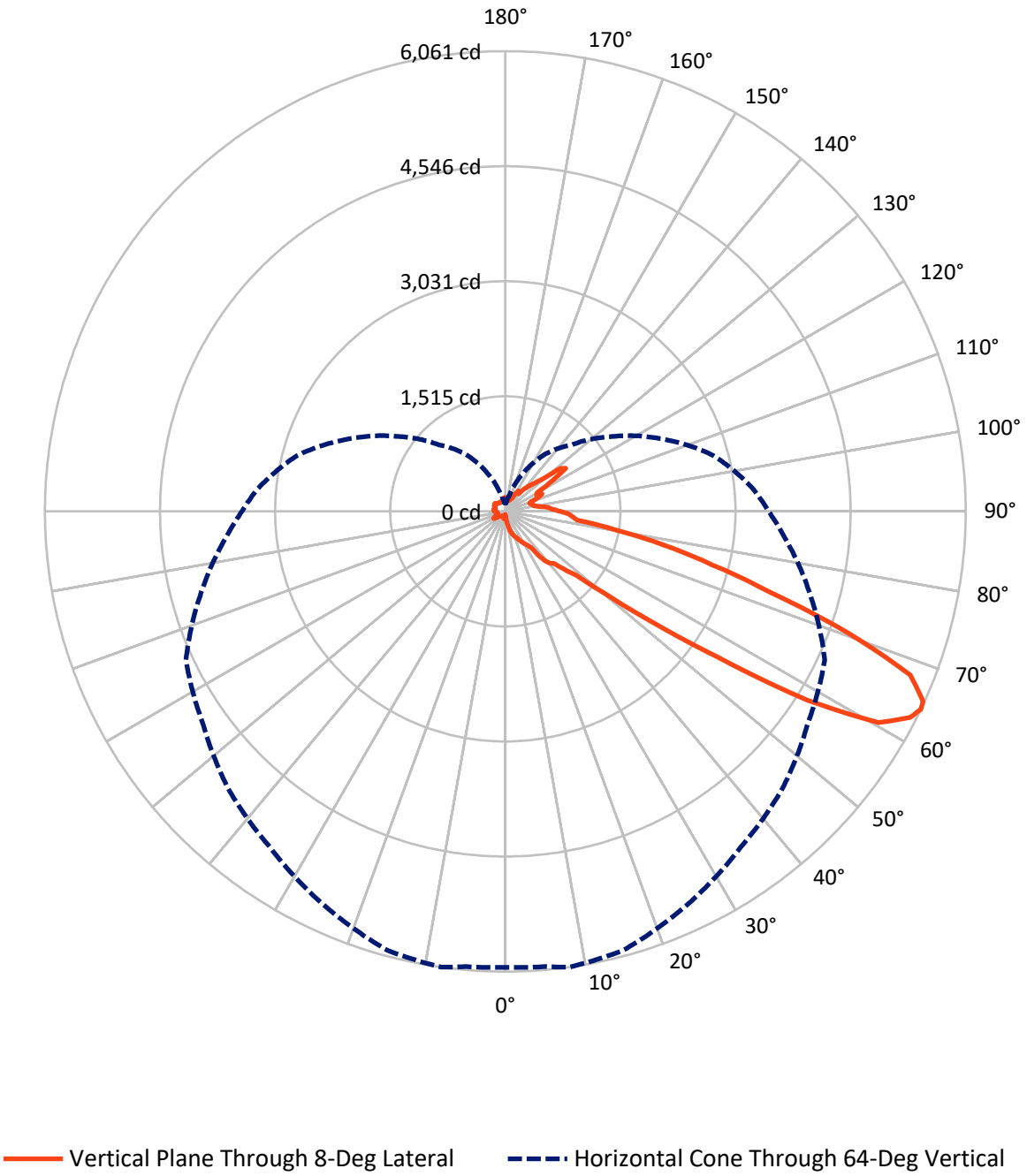
Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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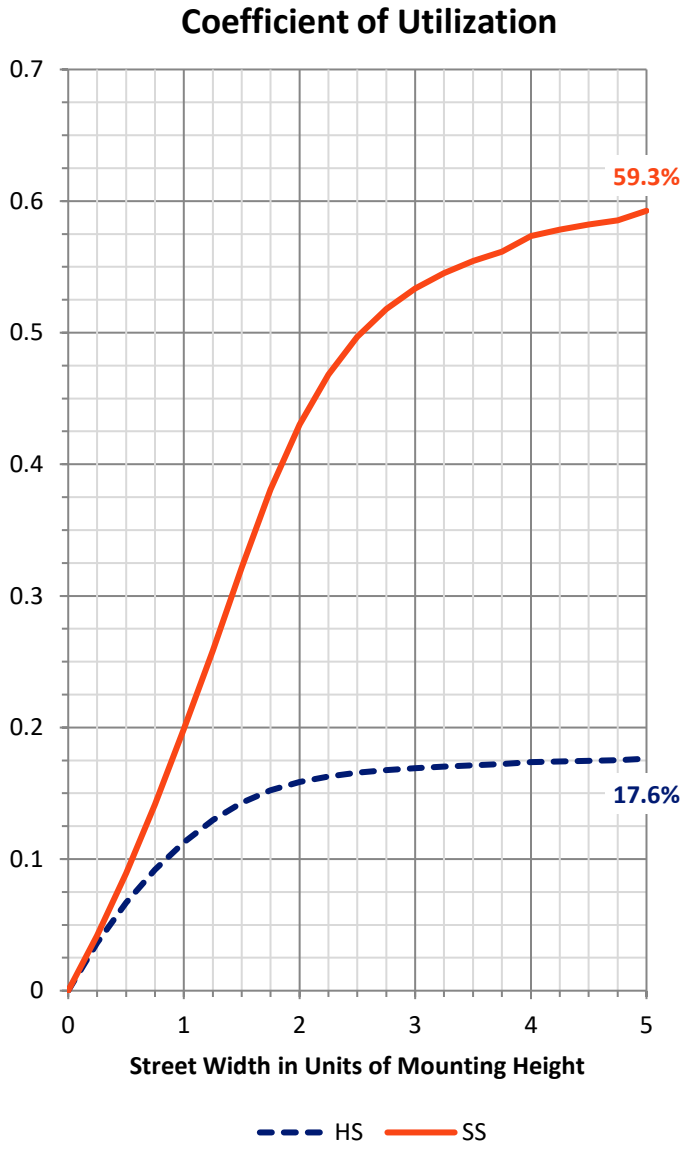
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1852.9	692.2	2545.1
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	6261.3	1325.4	7586.6
	% Fixture	61.8	13.1	74.9
Total	Lumens	8114.2	2017.5	10131.7
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.1
10°-20°	55.8	0.6
20°-30°	121.1	1.2
30°-40°	242.0	2.4
40°-50°	524.0	5.2
50°-60°	1816.1	17.9
60°-70°	3054.9	30.2
70°-80°	1661.2	16.4
80°-90°	628.8	6.2
90°-100°	396.8	3.9
100°-110°	267.7	2.6
110°-120°	289.6	2.9
120°-130°	476.6	4.7
130°-140°	293.5	2.9
140°-150°	153.5	1.5
150°-160°	79.9	0.8
160°-170°	43.5	0.4
170°-180°	16.4	0.2
0°-90°	8114.2	80.1
0°-180°	10131.7	100.0



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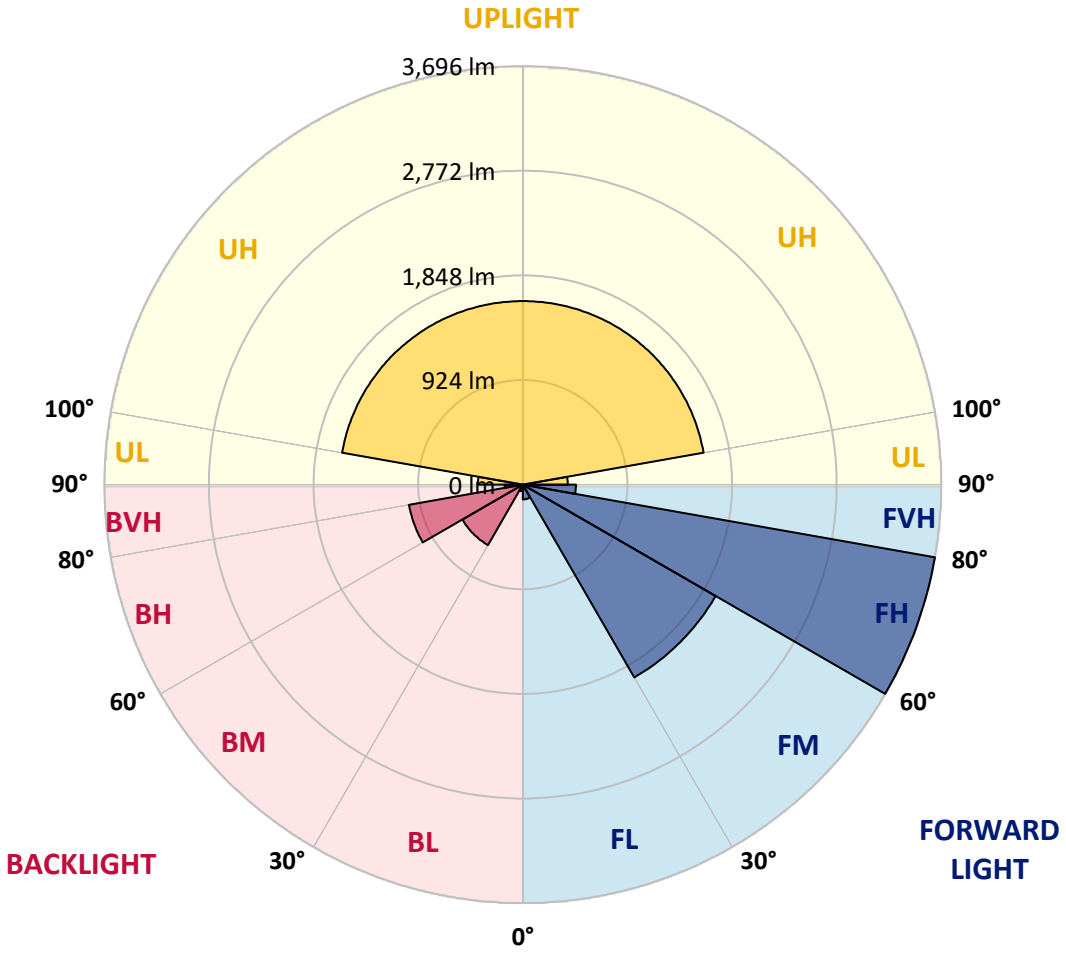
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	130.3	1.3			
FM	(30°-60°)	1966.2	19.4			
FH	(60°-80°)	3695.6	36.5			G2/5000
FVH	(80°-90°)	469.1	4.6			G3/500
BL	(0°-30°)	56.8	0.6	B0/110		
BM	(30°-60°)	615.9	6.1	B1/1000		
BH	(60°-80°)	1020.4	10.1	B3/2500		G3/2500
BVH	(80°-90°)	159.8	1.6			G2/225
UL	(90°-100°)	396.8	3.9		U3/500	
UH	(100°-180°)	1620.7	16.0		U5	

BUG Rating: B3-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	65.1	65.1	*65.1*	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	70.7	70.7	*70.7*	72.8	74.2	74.9	72.8	71.4	70.7	70.0	67.9
5°	101.6	102.3	*102.3*	104.4	103.0	104.4	101.6	99.5	96.0	91.8	88.3
7.5°	143.6	143.6	*142.9*	143.6	142.9	140.1	140.1	142.2	136.6	128.2	120.5
10°	194.7	196.1	*195.4*	192.6	188.4	184.9	184.9	187.7	179.3	164.6	153.4
12.5°	246.5	249.3	*246.5*	247.2	240.2	237.4	231.8	230.4	219.2	205.2	185.6
15°	285.1	287.2	*287.9*	290.0	289.3	280.2	270.4	259.9	250.7	238.1	217.8
17.5°	315.9	316.6	*318.0*	317.3	313.1	304.0	292.8	281.6	266.9	253.5	234.6
20°	346.0	348.8	*348.1*	347.4	345.3	338.3	325.0	308.9	296.3	276.7	257.0
22.5°	376.8	374.7	*376.1*	375.4	375.4	368.4	354.4	335.5	318.7	299.1	281.6
25°	412.5	411.8	*412.5*	410.4	407.6	404.1	386.6	364.9	346.0	325.7	301.2
27.5°	450.4	451.1	*451.8*	448.3	444.8	439.2	413.9	392.2	371.9	346.7	312.4
30°	492.4	490.3	*491.0*	486.1	484.0	466.5	442.0	416.0	393.6	360.0	326.4
32.5°	530.9	527.4	*526.7*	522.5	519.0	493.8	468.6	443.4	416.7	382.4	353.0
35°	584.8	591.8	*589.0*	589.0	598.1	559.6	530.2	505.7	477.0	441.3	410.4
37.5°	804.8	803.4	*795.0*	783.8	752.2	724.9	711.6	673.1	626.9	587.6	538.6
40°	911.2	907.0	*897.9*	875.5	853.1	820.9	800.6	776.8	752.9	683.6	605.2
42.5°	936.4	932.9	*935.0*	961.7	991.1	967.3	888.1	802.0	759.9	713.0	673.8
45°	1074.4	1086.3	*1089.8*	1089.1	1068.1	1042.9	1008.6	956.8	883.9	817.4	735.4
47.5°	1249.5	1248.1	*1256.5*	1245.3	1262.8	1218.7	1174.6	1120.6	1045.0	954.7	856.6
50°	1707.6	1692.9	*1695.0*	1699.2	1672.6	1640.4	1600.4	1570.3	1422.5	1294.4	1145.2
52.5°	2435.3	2437.4	*2422.0*	2421.3	2342.2	2279.8	2209.8	2212.6	1995.5	1823.2	1607.4
55°	3422.9	3424.3	*3369.0*	3414.5	3325.5	3317.1	3162.3	2962.7	2670.6	2436.0	2218.9
57.5°	4652.8	4694.8	*4689.9*	4608.7	4472.8	4399.3	4149.2	3939.8	3526.5	3158.1	2863.3
60°	5700.6	5681.0	*5648.8*	5587.1	5180.2	5009.3	4825.1	4646.5	4304.0	3794.1	3352.8
62.5°	5999.7	5985.0	*5979.4*	5948.5	5627.1	5345.5	5113.7	4821.6	4592.6	4092.5	3642.8
64°	*6004.6*	*6017.9*	*6061.3*	*5987.8*	*5702.0*	*5401.5*	*5161.3*	*4862.9*	*4640.2*	*4147.1*	*3677.8*
65°	5993.4	5990.6	*6045.2*	5952.1	5698.5	5398.7	5131.9	4846.1	4625.5	4132.4	3668.7
67.5°	5692.9	5681.0	*5751.0*	5631.3	5409.9	5139.6	4877.6	4570.9	4376.8	3903.4	3454.4
70°	4671.7	4671.0	*4780.3*	4680.1	4614.3	4327.8	4060.3	3778.7	3571.4	3182.6	2807.2
72.5°	3579.8	3573.5	*3646.3*	3571.4	3537.8	3402.6	3152.5	2903.9	2706.4	2415.0	2111.0
75°	2852.8	2855.6	*2817.0*	2743.5	2716.2	2655.9	2544.6	2396.1	2230.8	1966.0	1685.9
77.5°	2136.2	2122.2	*2139.0*	2036.1	2028.4	2010.2	2009.5	1914.2	1774.1	1605.3	1383.3
80°	1423.9	1432.3	*1462.4*	1435.1	1442.8	1436.5	1475.8	1374.9	1268.4	1169.0	1050.6
82.5°	921.0	943.4	*951.9*	989.7	1022.6	1037.3	983.4	881.8	815.3	778.9	726.3
85°	883.9	893.0	*888.1*	865.7	854.5	836.3	835.6	803.4	769.0	699.0	613.6
87.5°	815.3	825.8	*821.6*	802.0	776.8	774.6	769.7	747.3	731.2	675.9	600.2
90°	695.5	696.2	*699.7*	696.2	691.3	687.8	659.8	646.5	636.7	589.0	537.9
92.5°	603.0	611.5	*609.4*	603.0	586.9	596.7	566.6	541.4	535.8	502.9	463.7
95°	554.0	559.6	*561.0*	549.8	534.4	530.9	507.8	488.2	479.1	457.4	409.7
97.5°	459.5	456.0	*453.2*	450.4	439.9	428.6	413.9	389.4	381.7	357.9	331.3
100°	392.2	393.6	*392.2*	390.1	381.0	375.4	364.9	345.3	336.9	321.5	303.3
102.5°	374.0	374.7	*374.7*	375.4	360.0	347.4	336.2	322.2	314.5	301.2	283.7
105°	357.2	357.2	*358.6*	359.3	343.9	325.7	309.6	301.9	298.4	283.0	264.8
107.5°	336.2	335.5	*337.6*	328.5	313.1	305.4	288.6	279.5	278.1	266.2	247.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	367.0	359.3	*357.9*	335.5	314.5	297.0	288.6	280.2	275.3	259.2	247.2
112.5°	480.5	470.0	*467.2*	446.2	372.6	366.3	358.6	355.8	353.0	331.3	311.0
115°	529.5	529.5	*537.9*	529.5	478.4	420.2	411.8	399.2	404.1	377.5	348.1
117.5°	423.7	453.2	*461.6*	436.4	438.5	401.3	343.9	324.3	314.5	306.8	320.1
120°	475.6	495.2	*486.8*	440.6	419.5	397.8	400.6	393.6	358.6	310.3	315.2
122.5°	708.8	727.0	*733.3*	736.8	746.6	731.9	699.0	652.8	617.8	559.6	526.7
125°	992.5	979.2	*977.8*	984.1	991.8	972.9	958.9	949.8	928.0	851.7	744.5
127.5°	911.2	904.9	*915.4*	914.0	932.9	900.7	894.4	899.3	890.9	848.2	785.9
130°	653.5	664.7	*672.4*	697.6	734.7	706.0	679.4	639.5	636.7	657.7	624.8
132.5°	548.4	553.3	*567.3*	600.2	628.3	616.4	577.1	538.6	535.8	553.3	550.5
135°	484.7	488.2	*490.3*	491.7	486.8	498.0	489.6	475.6	466.5	467.2	458.8
137.5°	432.9	434.3	*432.9*	421.6	408.3	406.2	427.2	427.9	419.5	404.8	393.6
140°	375.4	375.4	*369.8*	362.1	360.0	360.7	372.6	374.7	364.9	353.0	336.2
142.5°	293.5	290.0	*290.7*	303.3	325.7	320.8	305.4	285.8	283.0	297.0	291.4
145°	317.3	316.6	*314.5*	315.2	309.6	300.5	294.9	288.6	277.4	268.3	259.2
147.5°	320.1	317.3	*318.7*	315.9	313.1	308.9	306.8	309.6	306.8	300.5	288.6
150°	252.8	254.2	*255.6*	252.1	254.9	256.3	254.9	252.8	256.3	248.6	243.7
152.5°	197.5	196.8	*196.1*	197.5	196.8	199.6	200.3	199.6	198.2	197.5	189.8
155°	185.6	187.7	*186.3*	182.1	184.9	187.0	189.8	191.9	189.8	186.3	179.3
157.5°	170.9	170.9	*170.9*	170.9	171.6	172.3	175.8	177.2	177.2	175.1	170.2
160°	159.0	159.7	*159.7*	159.7	161.1	162.5	164.6	166.0	167.4	166.0	163.2
162.5°	152.0	151.3	*151.3*	152.0	152.0	154.1	156.2	159.0	159.7	158.3	158.3
165°	147.8	147.8	*147.8*	148.5	149.9	151.3	154.1	154.8	155.5	156.9	156.9
167.5°	152.7	152.7	*152.7*	153.4	154.8	156.9	158.3	159.7	162.5	163.2	163.2
170°	160.4	160.4	*160.4*	161.1	161.8	162.5	163.2	164.6	165.3	166.7	166.0
172.5°	168.1	167.4	*168.1*	168.1	168.1	168.1	168.1	168.8	169.5	169.5	169.5
175°	176.5	176.5	*177.2*	176.5	175.1	175.1	175.1	175.8	175.8	175.8	175.1
177.5°	184.9	184.9	*184.2*	184.9	184.2	183.5	182.8	182.1	180.7	180.7	179.3
180°	180.0	180.0	*180.0*	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	66.5	63.7	60.2	56.0	51.8	49.0	46.2	42.7	40.6	39.9	39.9
5°	84.0	81.9	78.4	72.8	69.3	63.0	57.4	53.9	50.4	46.9	44.1
7.5°	117.7	117.0	119.1	123.3	117.7	103.0	87.6	79.1	79.8	84.0	86.1
10°	147.8	143.6	144.3	154.1	145.0	117.0	96.0	88.3	92.5	100.9	102.3
12.5°	179.3	173.0	168.1	166.0	145.7	114.2	95.3	86.1	88.3	95.3	95.3
15°	208.0	200.3	189.1	174.4	150.6	122.6	99.5	86.1	86.1	85.4	84.0
17.5°	224.1	215.7	195.4	172.3	146.4	121.2	97.4	84.0	77.0	71.4	70.7
20°	249.3	245.1	219.2	186.3	150.6	118.4	93.9	80.5	72.8	68.6	67.2
22.5°	273.9	262.0	228.3	194.7	154.1	117.7	92.5	79.8	72.8	69.3	67.9
25°	287.2	272.5	238.8	204.5	159.0	118.4	93.9	81.2	73.5	70.0	69.3
27.5°	297.7	282.3	250.7	213.6	165.3	121.2	98.1	83.3	74.9	70.7	70.0
30°	311.7	297.0	264.8	224.8	170.9	127.5	103.0	86.9	77.0	72.8	72.1
32.5°	338.3	320.1	282.3	234.6	177.9	133.8	109.3	92.5	80.5	74.2	74.2
35°	393.6	374.0	323.6	261.3	185.6	138.7	113.5	96.0	83.3	76.3	75.6
37.5°	509.9	485.4	423.7	327.1	204.5	145.7	118.4	98.1	84.7	78.4	77.0
40°	565.9	520.4	451.1	365.6	236.0	156.9	126.1	103.0	86.9	79.1	78.4
42.5°	633.9	596.0	500.8	375.4	262.0	182.8	139.4	110.0	91.1	80.5	79.8
45°	700.4	663.3	578.5	456.7	315.2	223.4	161.1	121.9	97.4	84.0	81.9
47.5°	816.7	755.7	654.2	534.4	388.0	283.0	198.2	138.7	107.9	88.3	85.4
50°	1104.5	1064.6	909.1	725.6	505.0	368.4	269.7	177.9	119.8	91.1	86.9
52.5°	1489.8	1414.1	1237.6	1012.8	732.6	547.0	394.3	264.1	147.1	93.9	88.3
55°	2099.8	1982.1	1779.0	1389.6	1051.3	829.3	617.1	433.6	224.1	100.2	89.0
57.5°	2751.9	2645.4	2403.1	1920.5	1424.6	1056.2	812.5	612.2	314.5	114.2	96.7
60°	3188.2	3002.6	2726.0	2259.5	1722.3	1241.8	909.1	642.3	326.4	117.0	100.9
62.5°	3438.3	3246.4	2837.3	2301.5	1775.5	1283.1	951.2	588.3	260.6	113.5	105.1
64°	*3467.7*	*3282.8*	*2838.7*	*2261.6*	*1718.8*	*1240.4*	*921.7*	*551.9*	*226.2*	*112.1*	*107.2*
65°	3444.6	3273.7	2804.4	2214.0	1642.5	1185.1	886.7	515.5	201.0	110.7	107.9
67.5°	3219.8	3069.9	2578.2	2008.1	1460.3	1023.3	727.7	396.4	157.6	107.9	106.5
70°	2607.6	2539.0	2119.4	1620.0	1154.3	816.0	573.6	303.3	133.8	105.1	103.7
72.5°	1956.2	1869.4	1581.5	1236.2	899.3	634.6	435.7	233.2	118.4	102.3	100.9
75°	1568.2	1483.5	1253.7	973.6	668.9	474.2	322.2	174.4	111.4	101.6	100.2
77.5°	1296.5	1228.5	1031.0	741.0	475.6	339.7	236.7	142.2	109.3	102.3	100.9
80°	997.4	986.2	805.5	539.3	336.9	253.5	191.2	133.1	110.0	105.1	103.7
82.5°	699.7	671.7	568.7	401.3	291.4	231.8	183.5	135.2	115.6	111.4	110.7
85°	576.4	554.7	486.8	385.9	277.4	224.1	181.4	138.7	121.2	117.7	116.3
87.5°	570.1	546.3	481.9	369.1	263.4	213.6	173.0	135.2	120.5	118.4	119.8
90°	517.6	500.1	440.6	340.4	261.3	217.1	180.7	149.2	133.8	126.8	125.4
92.5°	453.2	442.7	400.6	330.6	271.1	229.7	196.8	165.3	151.3	147.1	145.0
95°	395.7	391.5	357.2	300.5	250.0	216.4	186.3	159.0	147.1	141.5	140.8
97.5°	324.3	319.4	292.8	255.6	218.5	190.5	168.1	147.1	138.7	138.0	137.3
100°	296.3	292.8	273.9	250.0	220.6	199.6	180.0	162.5	155.5	155.5	156.2
102.5°	273.9	271.8	254.9	230.4	207.3	187.7	171.6	155.5	147.1	147.1	142.2
105°	255.6	252.1	236.7	217.1	193.3	175.1	159.7	147.8	138.7	135.9	135.9
107.5°	239.5	235.3	222.7	203.8	186.3	168.8	154.8	143.6	137.3	135.2	135.2

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

Scaled Data Report

REPORT NUMBER: P1046203
CATALOG NUMBER: FFX-CLB-70-730-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	240.2	236.7	222.0	201.7	185.6	172.3	161.1	150.6	145.0	140.8	140.8
112.5°	295.6	280.9	254.9	224.8	206.6	189.1	171.6	156.9	149.9	148.5	147.1
115°	334.8	320.1	287.9	248.6	215.7	191.2	173.7	162.5	156.2	160.4	162.5
117.5°	336.2	309.6	247.9	229.0	205.2	184.9	173.0	166.0	161.8	166.0	166.0
120°	342.5	288.6	255.6	247.9	219.9	191.2	177.9	176.5	172.3	163.9	163.9
122.5°	509.2	460.2	407.6	341.1	283.0	255.6	231.8	190.5	170.9	161.8	161.1
125°	701.8	650.7	568.7	479.8	395.7	308.2	229.0	195.4	175.1	163.9	161.8
127.5°	745.9	706.0	598.1	491.7	372.6	287.2	229.7	201.0	180.7	168.8	166.7
130°	601.6	570.1	497.3	410.4	327.8	265.5	224.1	195.4	175.8	163.9	161.1
132.5°	535.1	505.7	434.3	355.1	290.7	242.3	205.2	177.2	157.6	149.2	149.2
135°	447.6	427.2	363.5	316.6	270.4	229.7	193.3	167.4	151.3	146.4	146.4
137.5°	383.8	367.7	322.2	285.1	249.3	214.3	182.8	161.8	150.6	145.7	145.0
140°	328.5	318.0	291.4	254.9	220.6	186.3	161.8	149.9	145.0	142.9	142.2
142.5°	285.8	278.1	254.2	216.4	182.8	161.8	152.7	149.2	144.3	139.4	138.7
145°	250.0	243.7	216.4	194.7	178.6	170.2	163.2	152.7	140.8	134.5	133.8
147.5°	280.9	271.1	247.2	222.0	196.1	176.5	161.1	147.1	135.9	131.7	131.7
150°	241.6	234.6	219.9	200.3	178.6	160.4	147.1	138.0	133.8	133.1	133.1
152.5°	187.7	184.2	180.0	170.2	156.2	144.3	135.9	131.7	133.1	135.9	136.6
155°	176.5	175.1	170.9	161.8	152.7	141.5	134.5	132.4	134.5	137.3	138.0
157.5°	168.1	167.4	163.9	155.5	147.1	140.1	135.2	133.8	135.9	138.0	138.0
160°	161.1	160.4	155.5	149.2	142.9	138.0	134.5	134.5	136.6	138.0	138.0
162.5°	156.9	156.2	152.7	147.8	143.6	140.8	140.1	140.1	140.8	141.5	141.5
165°	156.9	156.2	152.7	148.5	145.7	145.7	147.1	147.8	145.7	144.3	145.0
167.5°	163.2	161.8	157.6	154.1	153.4	154.1	156.2	156.2	154.8	152.7	152.0
170°	165.3	164.6	163.2	161.8	161.8	161.8	162.5	163.2	163.2	163.9	163.9
172.5°	169.5	169.5	168.8	168.8	169.5	168.8	168.8	170.2	171.6	172.3	173.0
175°	175.1	174.4	175.1	175.1	175.8	175.1	174.4	175.8	177.9	179.3	179.3
177.5°	179.3	179.3	178.6	177.9	177.9	177.9	177.9	178.6	178.6	178.6	177.9
180°	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0

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

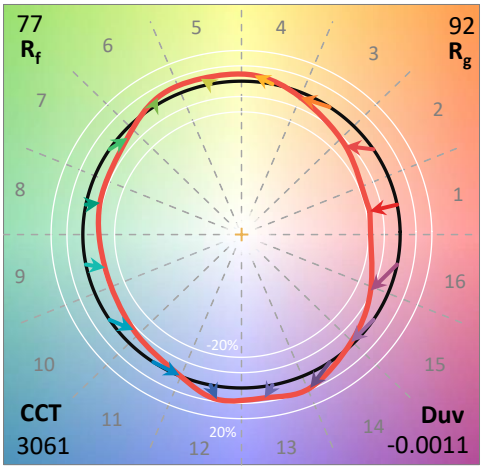
Test Information

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

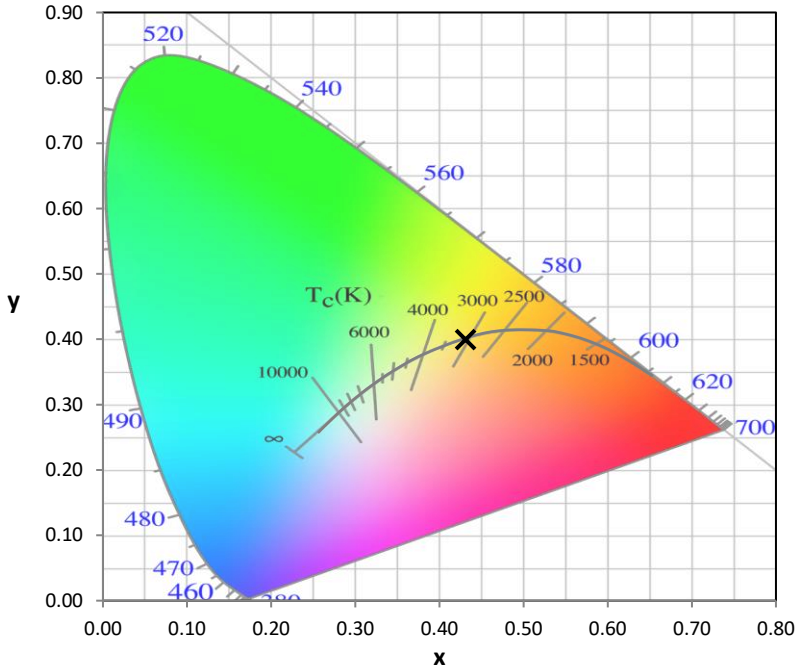
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

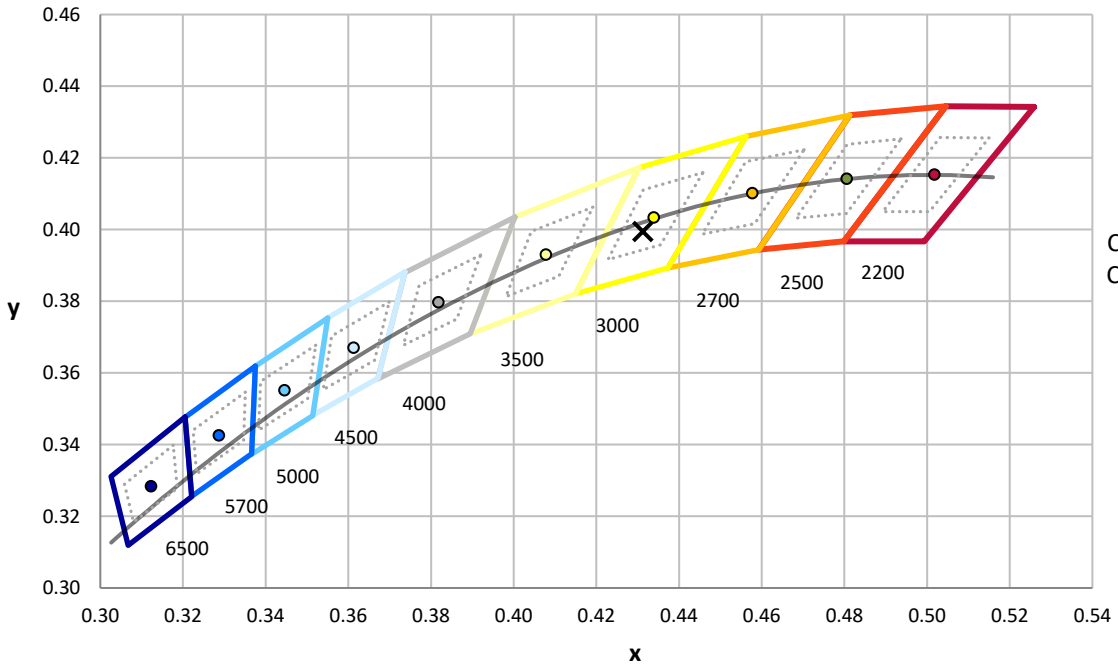
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

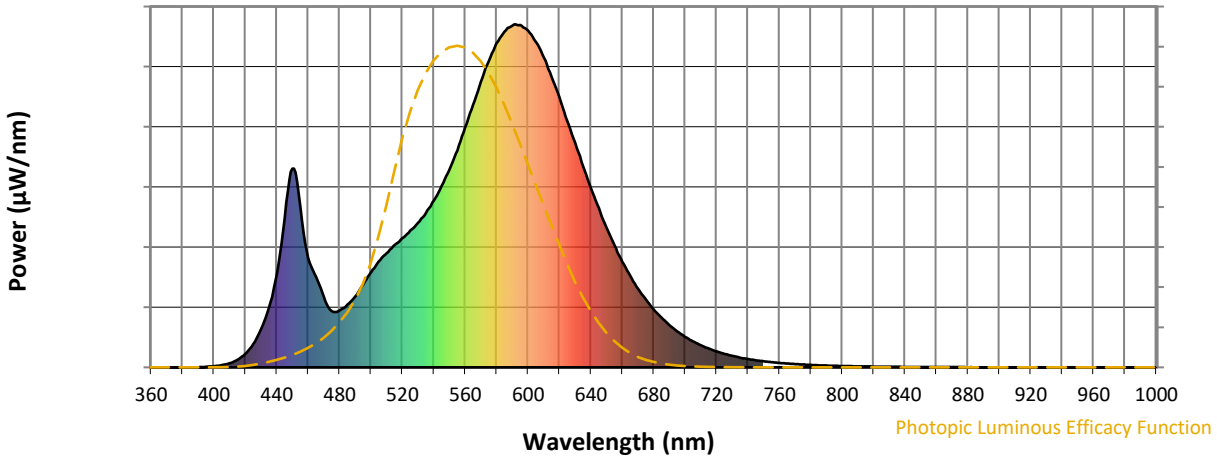


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

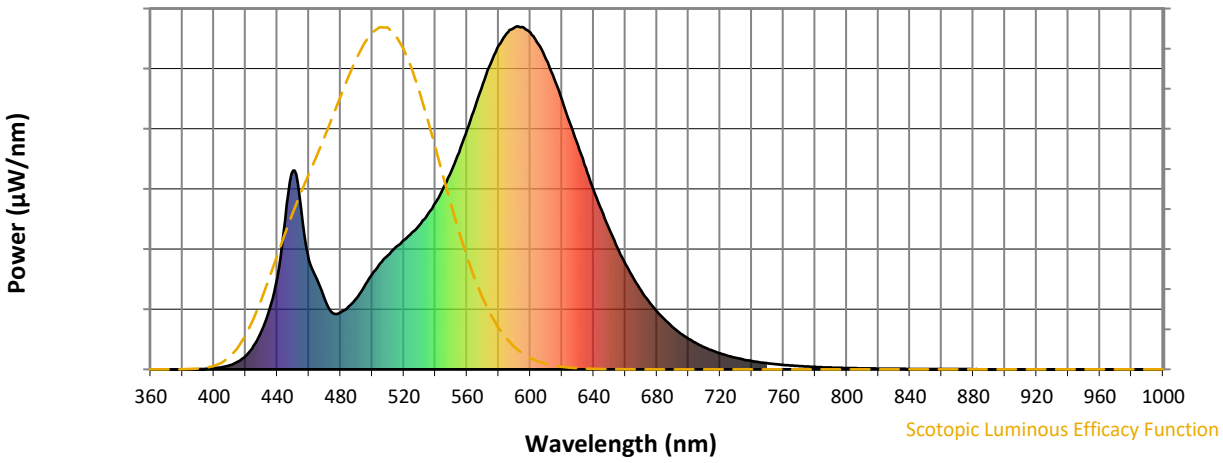


Photopic Lumens: NR

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

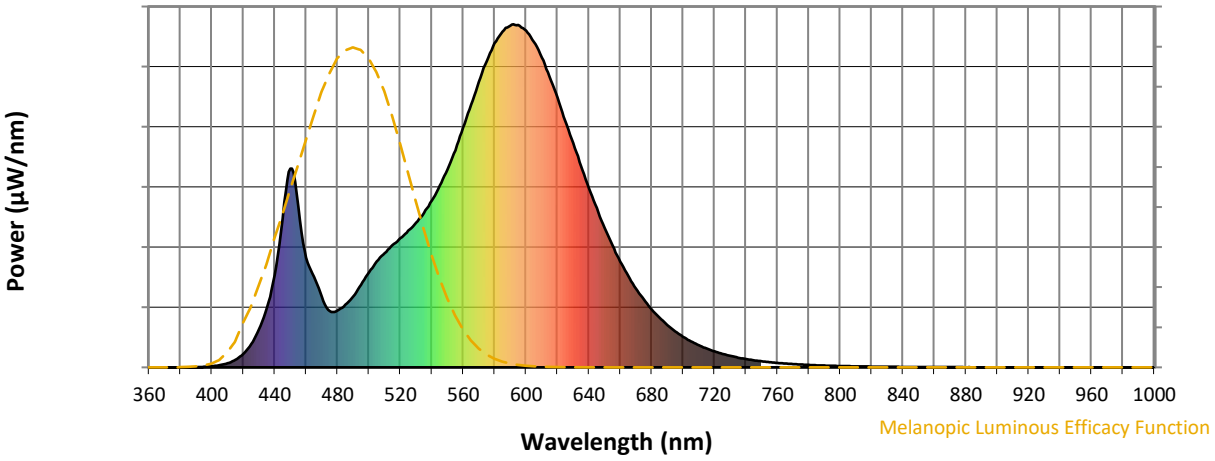


Scotopic Lumens: NR **S/P: 1.29**

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			

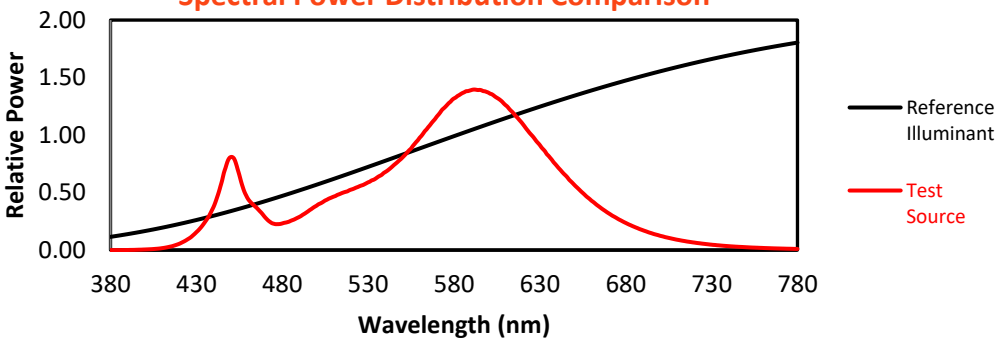
REPORT NUMBER: SP1-2501-332-4

TM-30-18

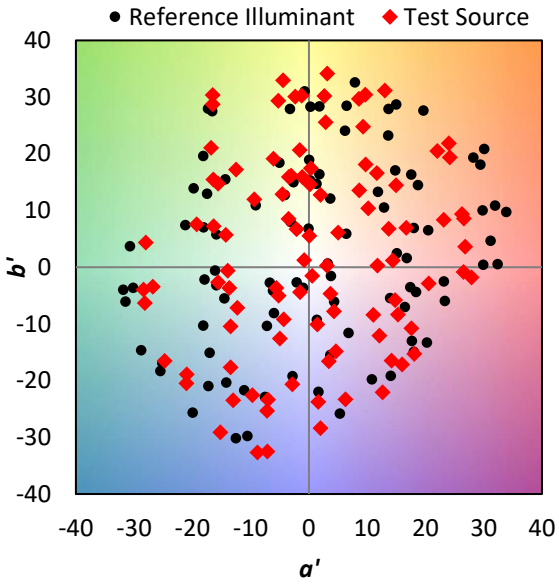
Summary

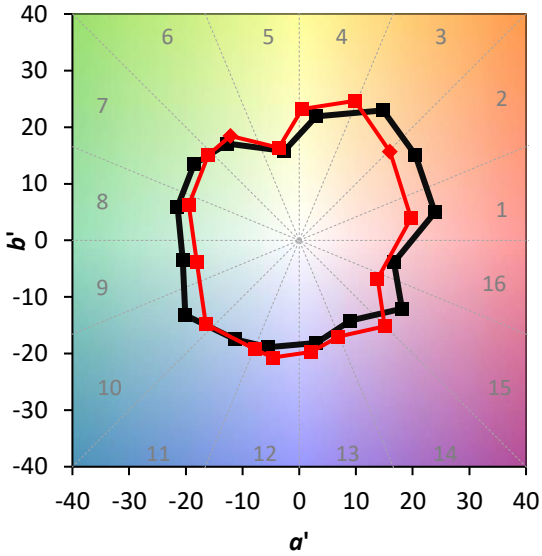
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

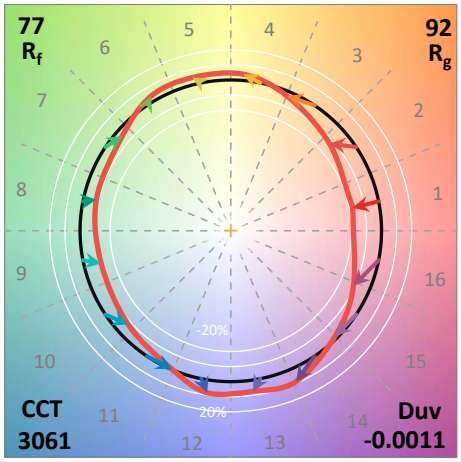
Spectral Power Distribution Comparison

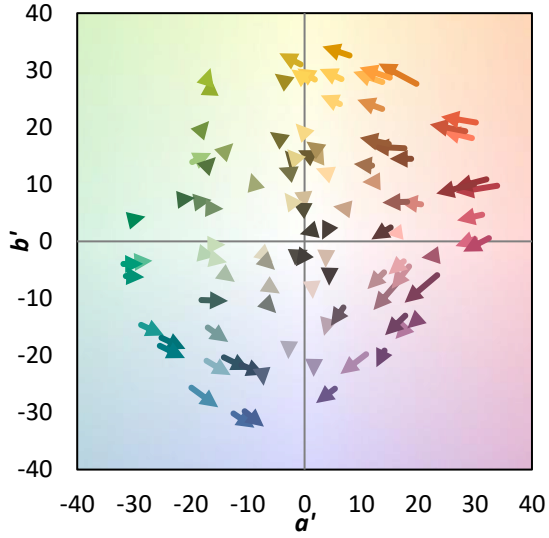


Color Vector Graphics







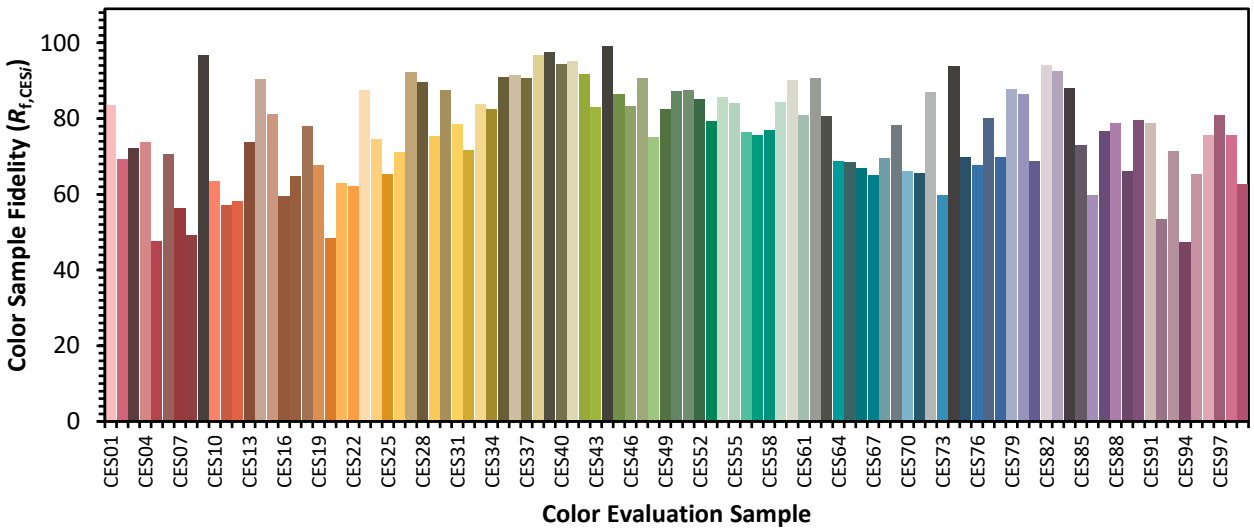


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

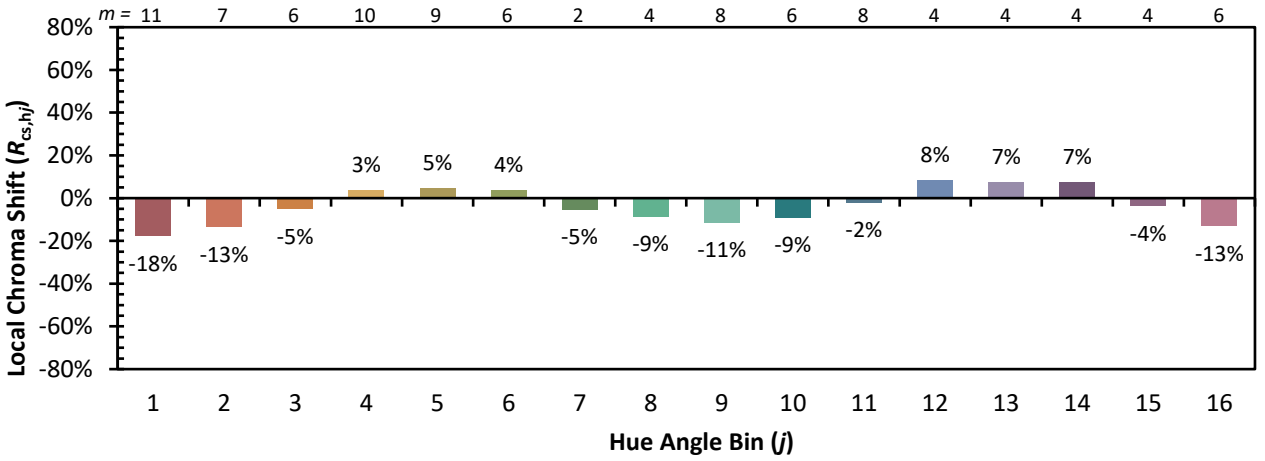
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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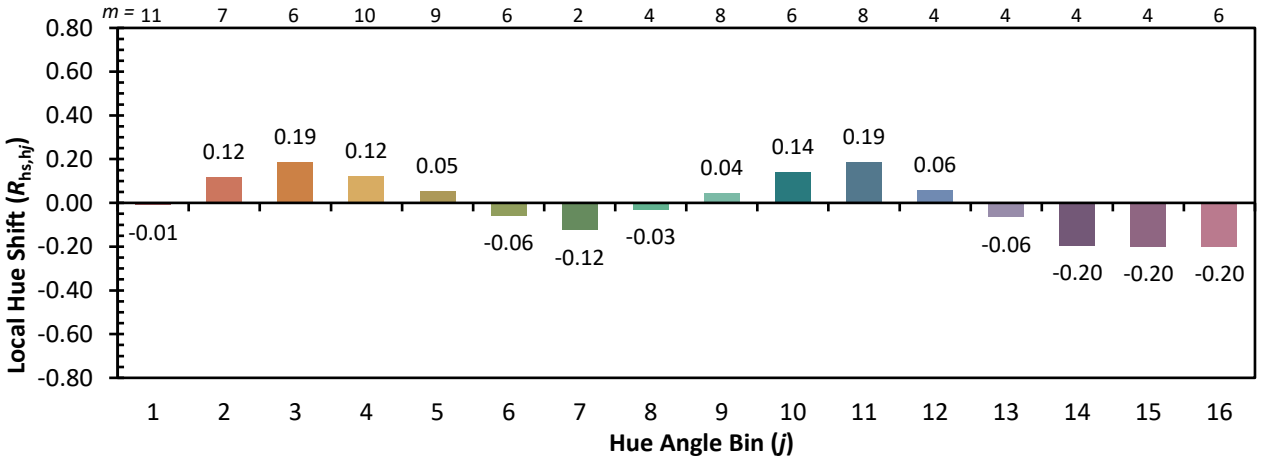


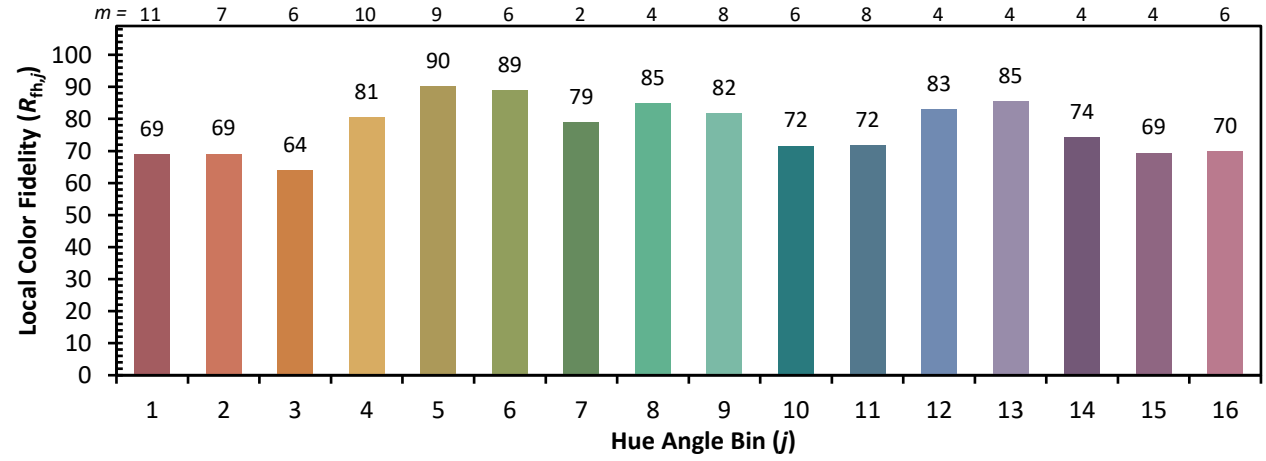
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Color Rendition by Hue-Angle Bin



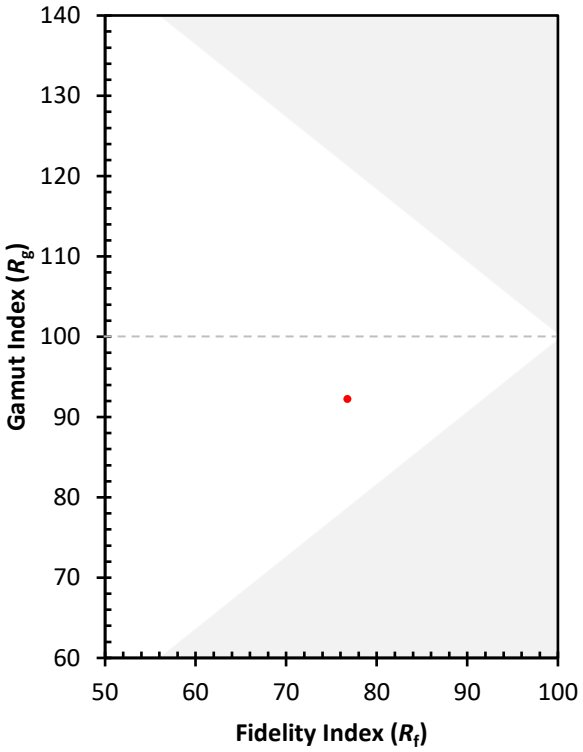


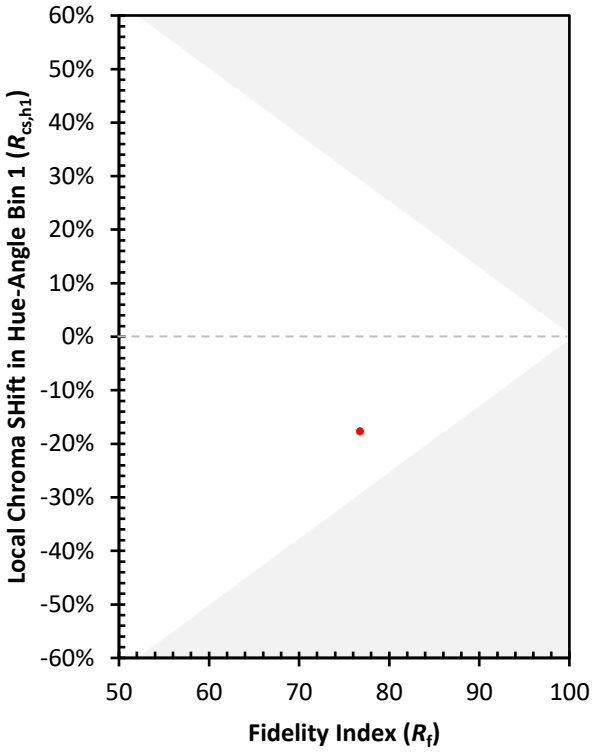


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Measure Comparisons





(END OF REPORT)