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: P1045798

Luminaire Tested: **FFX-CLB-70-730-U-FR-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045798
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-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7378.3 lumens
Efficiency:	N/A
Efficacy:	103.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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

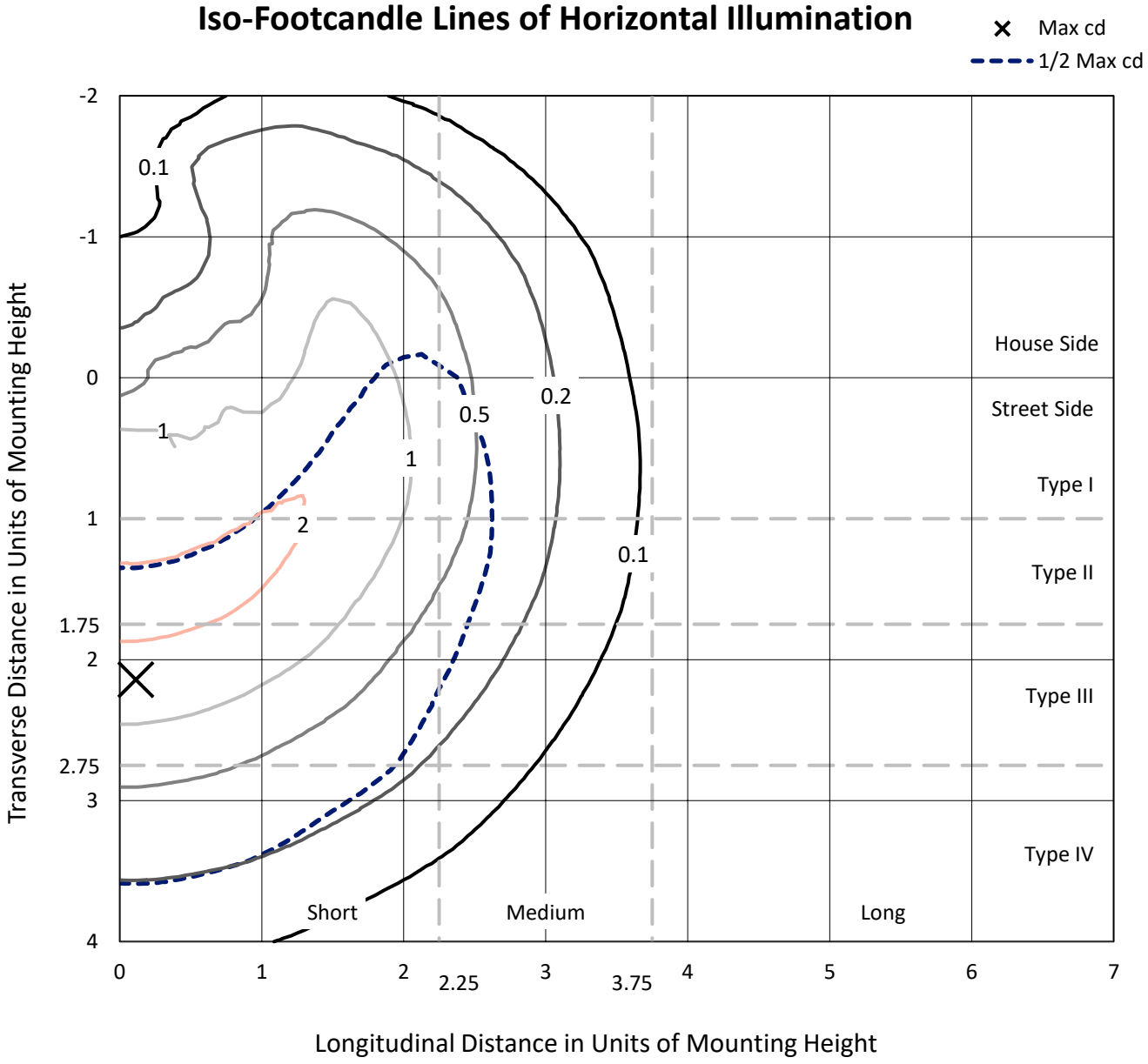


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Iso-Footcandle Lines of Horizontal Illumination



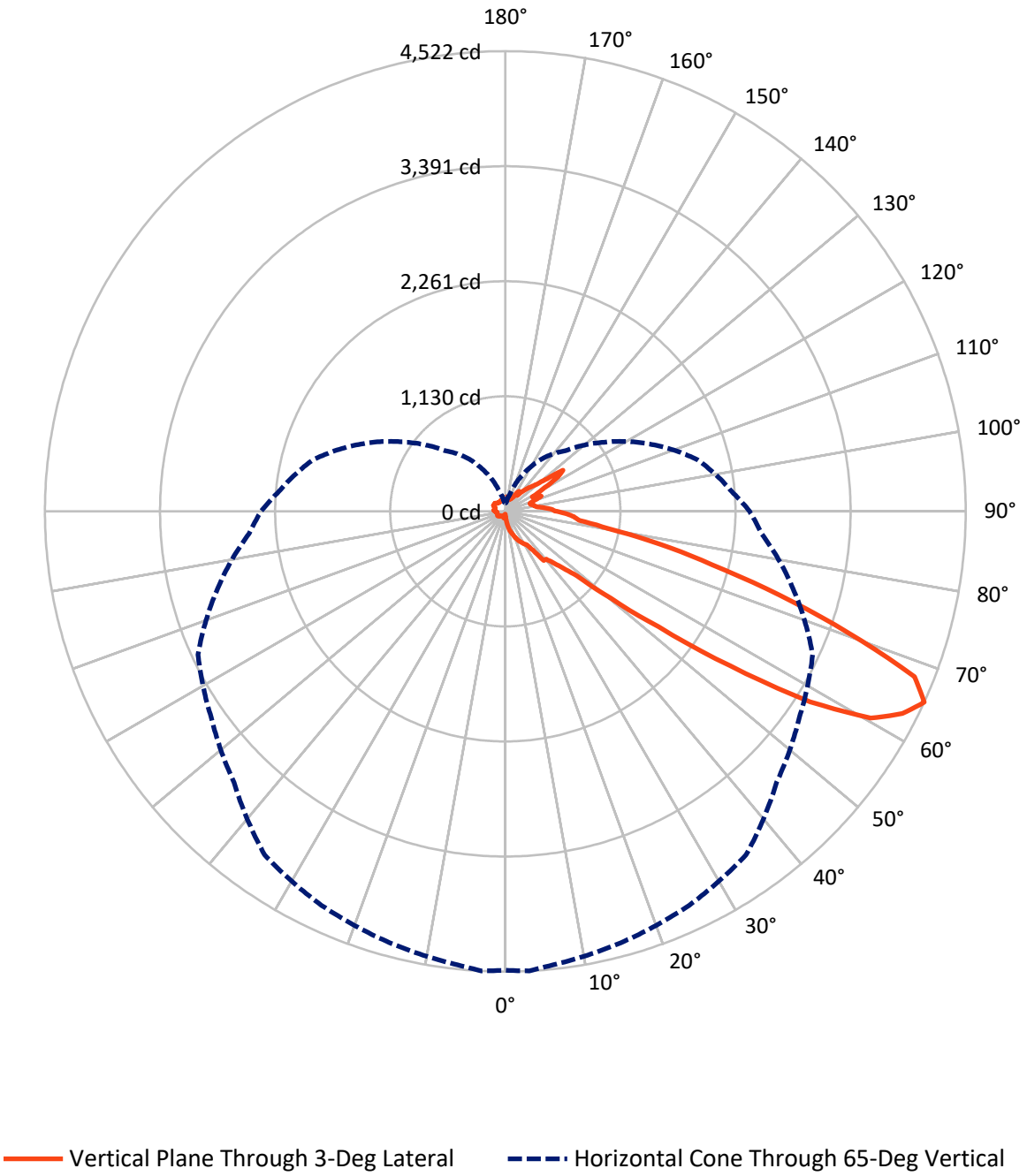
Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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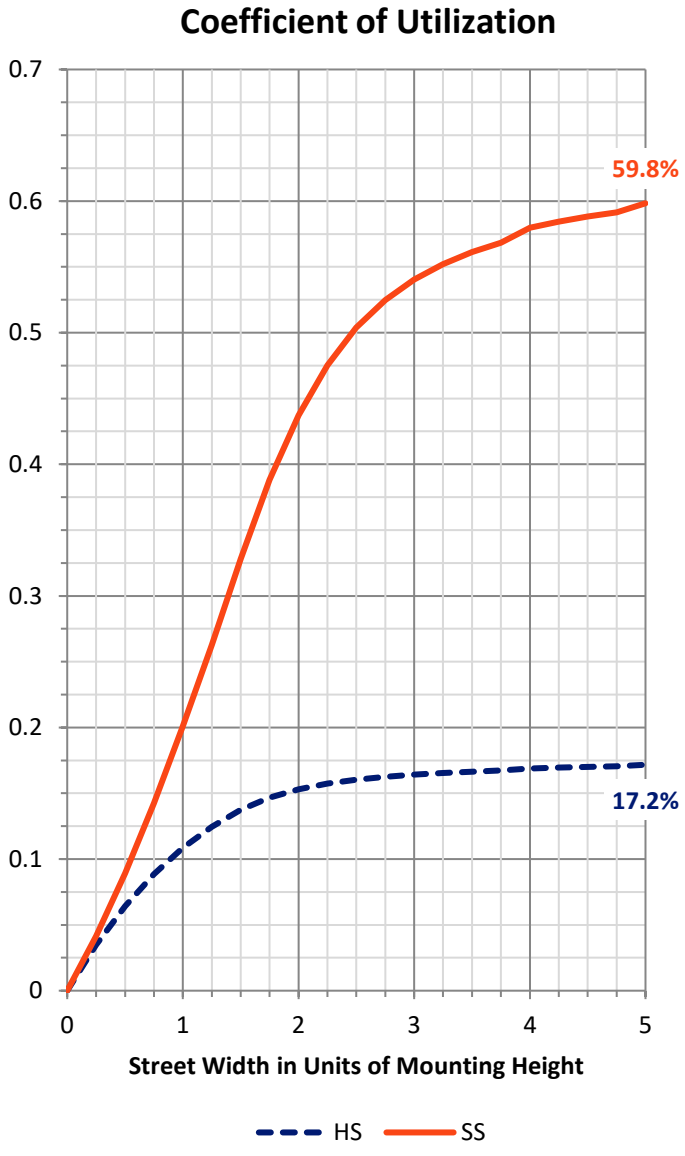
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1315.4	512.0	1827.4
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	4598.1	952.9	5550.9
	% Fixture	62.3	12.9	75.2
Total	Lumens	5913.4	1464.9	7378.3
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.1
10°-20°	41.8	0.6
20°-30°	92.1	1.2
30°-40°	183.7	2.5
40°-50°	396.6	5.4
50°-60°	1355.9	18.4
60°-70°	2203.4	29.9
70°-80°	1185.6	16.1
80°-90°	446.7	6.1
90°-100°	281.8	3.8
100°-110°	200.3	2.7
110°-120°	221.1	3.0
120°-130°	337.7	4.6
130°-140°	202.6	2.7
140°-150°	111.9	1.5
150°-160°	62.3	0.8
160°-170°	34.5	0.5
170°-180°	12.7	0.2
0°-90°	5913.4	80.1
0°-180°	7378.3	100.0



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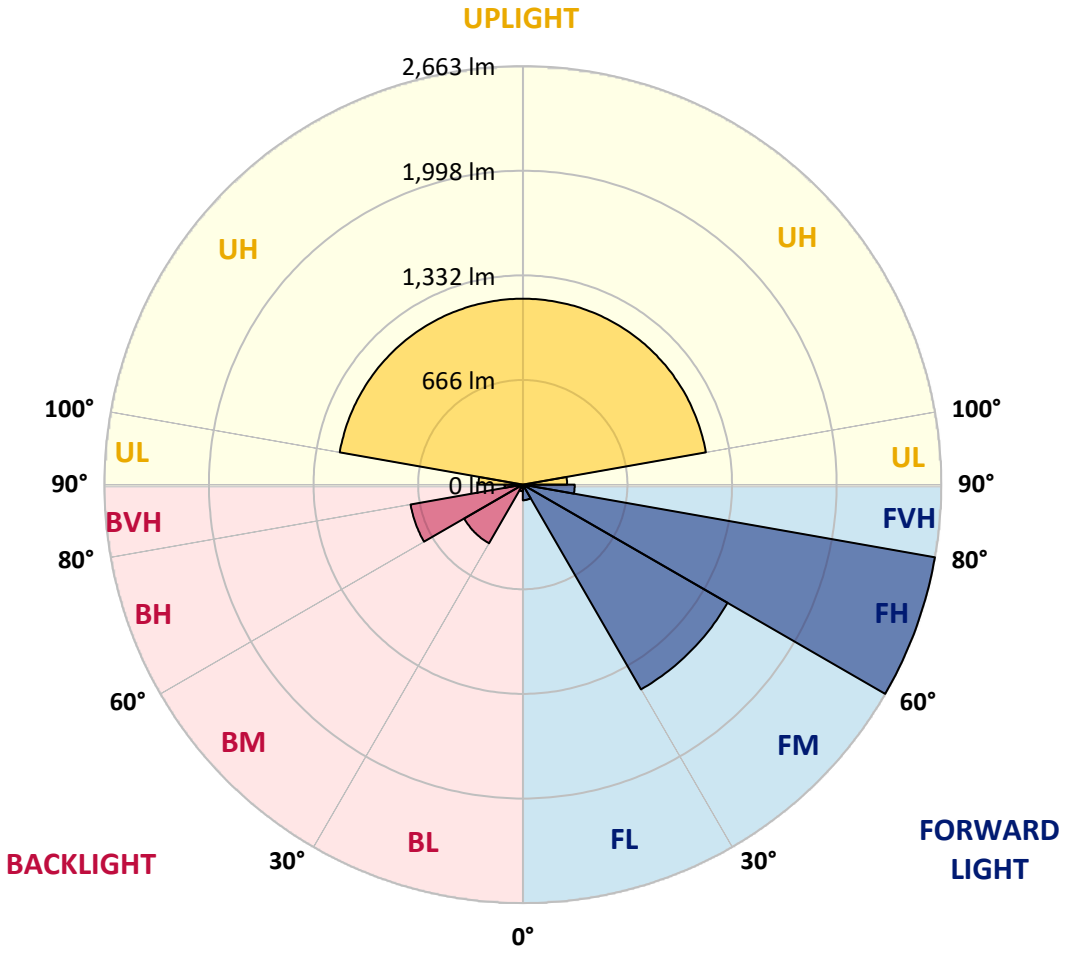
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	99.5	1.3			
FM	(30°-60°)	1504.9	20.4			
FH	(60°-80°)	2663.5	36.1			G2/5000
FVH	(80°-90°)	330.1	4.5			G3/500
BL	(0°-30°)	42.0	0.6	B0/110		
BM	(30°-60°)	431.3	5.8	B1/1000		
BH	(60°-80°)	725.5	9.8	B2/1000		G2/1000
BVH	(80°-90°)	116.6	1.6			G2/225
UL	(90°-100°)	281.8	3.8		U3/500	
UH	(100°-180°)	1183.0	16.0		U5	

BUG Rating: B2-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48.8	*48.8*	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
2.5°	58.7	*59.5*	59.5	59.5	61.2	62.0	61.2	58.7	55.4	53.7	52.1
5°	85.1	*86.8*	86.0	86.0	84.3	84.3	81.8	80.2	78.5	72.7	66.9
7.5°	118.2	*116.5*	115.7	114.1	114.9	110.8	107.4	107.4	105.0	99.2	90.1
10°	152.9	*152.9*	150.4	149.6	147.9	146.3	140.5	137.2	137.2	127.3	116.5
12.5°	190.9	*190.1*	190.9	189.3	186.8	182.7	176.0	168.6	164.5	155.4	139.7
15°	215.7	*214.9*	214.9	214.1	212.4	208.3	203.3	195.9	185.1	176.0	161.2
17.5°	242.2	*240.5*	240.5	236.4	233.1	228.1	224.0	216.5	203.3	186.8	172.7
20°	271.1	*271.1*	271.1	265.3	258.7	252.1	246.3	239.7	229.8	205.0	185.1
22.5°	298.4	*299.2*	298.4	292.6	286.8	276.1	267.0	258.7	248.8	224.0	200.0
25°	324.8	*326.5*	325.6	325.6	318.2	304.2	291.8	279.4	272.7	248.0	214.9
27.5°	348.0	*348.8*	349.6	353.7	349.6	333.9	314.1	299.2	294.2	267.0	227.3
30°	370.3	*372.8*	372.8	376.9	376.1	358.7	334.7	318.2	308.3	281.8	239.7
32.5°	391.8	*393.4*	394.2	404.2	403.3	380.2	359.5	341.3	324.8	305.0	261.2
35°	469.5	*467.0*	479.4	486.8	481.0	460.4	435.6	401.7	378.5	355.4	308.3
37.5°	614.1	*612.4*	612.4	595.9	572.8	548.8	542.2	506.6	478.5	448.8	384.3
40°	618.2	*618.2*	620.7	638.9	650.5	619.9	590.9	556.2	550.4	519.9	441.4
42.5°	678.6	*685.2*	691.8	704.2	724.8	705.0	671.9	616.6	590.1	558.7	491.8
45°	781.0	*791.0*	787.7	792.6	787.7	770.3	767.8	737.2	697.6	637.2	547.1
47.5°	950.5	*944.7*	941.4	961.2	993.5	961.2	953.8	905.0	829.0	752.1	649.6
50°	1367.0	*1342.2*	1367.9	1363.7	1357.9	1328.2	1305.9	1257.1	1133.1	1008.3	860.4
52.5°	1924.9	*1884.4*	1907.6	1923.3	1906.7	1864.6	1797.6	1702.6	1535.6	1374.5	1179.4
55°	2735.7	*2679.5*	2687.0	2706.8	2718.4	2622.5	2526.6	2316.7	2066.2	1817.5	1605.9
57.5°	3630.8	*3530.0*	3596.1	3485.4	3439.9	3268.8	3187.8	2975.4	2681.2	2348.9	2007.6
60°	4135.0	*4124.2*	4111.8	4025.9	3977.9	3786.2	3596.1	3396.9	3133.3	2740.7	2341.5
62.5°	4354.0	*4377.1*	4359.0	4314.3	4271.4	4102.7	3772.1	3535.8	3321.7	2918.4	2520.0
65°	*4508.6*	*4521.8*	*4491.2*	*4387.9*	*4271.4*	*4120.9*	*3768.0*	*3526.7*	*3330.8*	*2924.2*	*2527.4*
67.5°	4331.7	*4334.2*	4297.0	4163.1	3926.7	3794.5	3452.3	3241.5	3049.8	2702.7	2331.6
70°	3568.0	*3575.4*	3552.3	3433.3	3234.9	3120.0	2790.3	2573.7	2429.1	2189.4	1915.8
72.5°	2781.2	*2813.4*	2780.3	2733.2	2544.8	2459.7	2238.2	2062.9	1929.9	1704.2	1483.6
75°	2091.0	*2098.5*	2099.3	2046.4	1947.2	1928.2	1776.1	1660.4	1544.7	1359.6	1197.6
77.5°	1516.6	*1549.7*	1538.1	1529.0	1399.3	1406.7	1346.4	1277.8	1205.0	1081.9	966.2
80°	1006.7	*1024.0*	1003.4	1008.3	991.0	986.8	930.6	884.4	839.7	782.7	737.2
82.5°	733.9	*730.6*	729.0	719.9	706.7	709.1	681.0	624.0	570.3	558.7	516.6
85°	678.6	*676.1*	673.6	657.1	629.0	611.6	595.9	572.8	539.7	487.6	433.1
87.5°	593.4	*594.3*	588.5	571.1	552.9	548.0	535.6	520.7	504.2	465.3	417.4
90°	488.5	*486.0*	486.8	476.9	480.2	478.5	459.5	441.4	434.7	401.7	373.6
92.5°	451.3	*448.8*	449.6	442.2	430.6	428.1	407.5	385.1	375.2	354.6	333.1
95°	376.9	*376.9*	373.6	370.3	364.5	356.2	345.5	330.6	323.2	306.6	285.1
97.5°	316.5	*313.2*	315.7	309.9	305.0	301.7	293.4	278.5	271.1	258.7	242.2
100°	294.2	*294.2*	293.4	290.9	278.5	271.9	262.8	248.8	243.0	232.2	219.8
102.5°	281.8	*281.0*	280.2	277.7	266.1	254.6	243.0	234.7	228.1	219.0	205.8
105°	257.9	*257.9*	259.5	258.7	250.4	243.0	230.6	223.2	216.5	207.5	195.1
107.5°	255.4	*254.6*	254.6	244.6	233.9	229.8	220.7	214.1	208.3	199.2	185.1
110°	292.6	*294.2*	296.7	280.2	254.6	243.8	230.6	223.2	216.5	205.0	190.1

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	383.5	*383.5*	381.8	372.8	328.1	298.4	291.8	272.7	262.0	244.6	224.0
115°	344.7	*345.5*	344.7	347.1	343.8	306.6	313.2	281.8	300.0	259.5	245.5
117.5°	300.8	*300.0*	296.7	297.5	300.8	324.8	272.7	265.3	272.7	236.4	224.0
120°	419.9	*412.4*	419.9	389.3	384.3	388.5	358.7	352.9	321.5	277.7	244.6
122.5°	618.2	*606.7*	623.2	612.4	620.7	593.4	564.5	540.5	505.8	432.3	366.1
125°	698.4	*695.9*	691.8	676.9	663.7	652.1	657.1	666.2	647.1	587.6	510.8
127.5°	514.1	*520.7*	518.2	548.0	576.9	570.3	552.9	561.2	571.1	567.8	522.3
130°	409.9	*415.7*	419.0	448.0	472.8	472.8	444.7	437.2	445.5	462.8	445.5
132.5°	359.5	*361.2*	362.8	372.8	393.4	403.3	386.0	374.4	377.7	386.8	371.9
135°	324.0	*323.2*	320.7	314.1	315.7	325.6	333.1	331.4	328.9	328.9	320.7
137.5°	281.0	*280.2*	280.2	270.3	266.1	274.4	285.1	295.1	288.4	279.4	269.4
140°	233.9	*233.1*	233.9	239.7	241.3	242.2	248.0	248.0	248.0	247.1	243.0
142.5°	194.2	*195.1*	196.7	211.6	219.0	219.0	211.6	205.0	204.1	209.1	209.9
145°	238.9	*238.9*	239.7	238.9	233.9	228.9	224.0	224.0	219.0	207.5	201.7
147.5°	213.2	*216.5*	214.1	216.5	218.2	219.0	218.2	220.7	221.5	214.9	205.8
150°	167.8	*167.0*	165.3	167.8	171.9	176.9	178.5	180.2	181.0	181.0	181.0
152.5°	145.5	*146.3*	145.5	147.9	150.4	151.2	153.7	153.7	154.6	153.7	152.1
155°	141.3	*141.3*	141.3	141.3	142.2	143.8	147.1	148.8	147.1	144.6	140.5
157.5°	131.4	*131.4*	131.4	132.2	133.9	135.5	138.0	139.7	139.7	138.0	134.7
160°	125.6	*125.6*	125.6	125.6	127.3	128.9	130.6	132.2	132.2	131.4	128.9
162.5°	119.0	*119.0*	119.0	119.8	121.5	123.1	124.8	126.5	125.6	125.6	124.0
165°	118.2	*118.2*	118.2	119.0	120.7	123.1	124.0	124.0	124.8	124.8	124.8
167.5°	121.5	*121.5*	122.3	122.3	124.0	124.8	126.5	127.3	128.1	127.3	127.3
170°	126.5	*126.5*	126.5	127.3	128.1	128.1	128.9	128.9	129.8	129.8	129.8
172.5°	133.1	*133.1*	133.1	133.1	132.2	132.2	132.2	132.2	133.1	132.2	133.1
175°	140.5	*140.5*	140.5	139.7	138.9	138.9	138.0	138.0	137.2	136.4	136.4
177.5°	141.3	*141.3*	141.3	141.3	140.5	139.7	139.7	138.9	138.0	138.0	138.0
180°	138.0	*138.0*	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
2.5°	50.4	48.8	44.6	41.3	38.8	35.5	33.1	30.6	28.9	28.1	27.3
5°	66.1	62.8	57.9	52.9	48.8	43.0	39.7	33.9	29.8	28.1	27.3
7.5°	86.8	84.3	81.8	81.0	79.3	71.9	61.2	52.9	51.2	49.6	51.2
10°	110.8	105.8	98.4	102.5	102.5	88.4	73.6	65.3	64.5	67.8	68.6
12.5°	133.1	126.5	117.4	116.5	107.4	88.4	72.7	64.5	63.6	64.5	65.3
15°	153.7	146.3	136.4	128.1	114.1	94.2	76.0	65.3	62.8	65.3	65.3
17.5°	165.3	157.9	143.8	128.1	111.6	93.4	75.2	63.6	57.9	54.5	54.5
20°	179.4	173.6	154.6	134.7	112.4	92.6	74.4	62.0	55.4	52.1	51.2
22.5°	191.7	185.1	164.5	143.0	117.4	92.6	71.9	61.2	55.4	52.1	51.2
25°	206.6	196.7	176.0	152.1	121.5	92.6	71.9	62.0	56.2	52.9	52.1
27.5°	216.5	205.0	185.1	158.7	126.5	94.2	74.4	62.8	56.2	52.9	52.9
30°	226.5	215.7	192.6	167.8	132.2	98.4	78.5	66.1	58.7	54.5	54.5
32.5°	246.3	232.2	204.1	175.2	137.2	101.7	82.7	69.4	61.2	57.0	57.0
35°	290.9	271.1	237.2	196.7	143.8	105.0	86.8	73.6	62.8	57.9	57.9
37.5°	358.7	333.9	292.6	237.2	160.3	109.9	90.1	75.2	64.5	60.3	59.5
40°	403.3	372.8	323.2	269.4	184.3	118.2	94.2	77.7	66.1	61.2	60.3
42.5°	457.1	419.9	353.7	279.4	196.7	135.5	102.5	81.8	68.6	62.0	61.2
45°	505.8	474.4	412.4	326.5	232.2	161.2	117.4	89.3	72.7	64.5	63.6
47.5°	605.0	556.2	473.6	385.1	276.9	200.0	143.0	100.8	79.3	67.8	66.1
50°	798.4	748.0	648.0	510.8	357.9	254.6	184.3	122.3	87.6	71.1	68.6
52.5°	1084.4	991.8	880.2	695.1	507.5	367.8	261.2	172.7	104.1	74.4	70.3
55°	1467.0	1414.1	1216.6	981.1	723.2	550.4	401.7	268.6	155.4	78.5	71.1
57.5°	1905.9	1800.9	1620.8	1327.4	967.0	700.9	543.0	400.0	228.9	91.7	75.2
60°	2188.6	2079.5	1872.8	1576.1	1176.9	835.6	619.0	445.5	259.5	94.2	78.5
62.5°	2371.2	2218.3	1956.3	1609.2	1238.1	891.0	653.8	423.2	221.5	91.7	81.0
65°	*2399.3*	*2233.2*	*1956.3*	*1563.7*	*1182.7*	*845.5*	*632.3*	*390.9*	*174.4*	*87.6*	*84.3*
67.5°	2233.2	2053.0	1823.3	1434.0	1061.2	724.8	543.0	319.0	132.2	85.1	83.5
70°	1808.4	1695.2	1486.0	1168.7	847.2	593.4	432.3	244.6	107.4	82.7	81.8
72.5°	1381.9	1300.1	1153.8	910.8	652.9	457.9	329.8	192.6	96.7	81.0	80.2
75°	1100.1	1025.7	906.7	701.7	498.4	352.9	246.3	147.9	88.4	81.0	79.3
77.5°	907.5	842.2	734.8	556.2	363.7	263.7	186.8	119.8	86.8	81.0	80.2
80°	698.4	651.3	571.1	404.2	260.3	197.5	148.8	106.6	86.8	82.7	81.8
82.5°	495.1	476.9	416.6	314.9	219.0	171.9	137.2	105.0	88.4	84.3	83.5
85°	411.6	390.1	347.1	274.4	204.1	166.1	135.5	107.4	92.6	89.3	88.4
87.5°	396.7	382.7	340.5	265.3	195.9	158.7	129.8	105.0	92.6	90.9	91.7
90°	358.7	343.0	310.8	247.1	187.6	157.9	132.2	109.1	95.9	94.2	93.4
92.5°	325.6	316.5	288.4	238.9	193.4	163.6	139.7	119.0	108.3	105.0	105.0
95°	278.5	269.4	253.7	219.0	184.3	160.3	139.7	121.5	112.4	110.8	109.9
97.5°	237.2	231.4	218.2	190.9	163.6	143.8	125.6	111.6	104.1	101.7	101.7
100°	216.5	211.6	200.8	182.7	162.0	145.5	130.6	118.2	111.6	109.9	109.9
102.5°	201.7	197.5	187.6	174.4	156.2	143.0	130.6	119.8	112.4	110.8	111.6
105°	189.3	185.1	175.2	162.0	147.1	133.1	124.0	115.7	107.4	105.0	105.0
107.5°	180.2	176.0	167.8	154.6	142.2	129.8	119.8	113.2	106.6	105.0	105.0
110°	184.3	178.5	166.1	152.1	141.3	130.6	122.3	115.7	110.8	108.3	108.3

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

Scaled Data Report

REPORT NUMBER: P1045798
CATALOG NUMBER: FFX-CLB-70-730-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	215.7	206.6	186.0	166.1	152.1	139.7	130.6	121.5	117.4	114.1	114.1
115°	236.4	227.3	206.6	182.7	162.0	144.6	132.2	124.8	119.8	123.1	121.5
117.5°	215.7	209.1	193.4	176.0	159.5	144.6	133.9	128.9	125.6	129.8	131.4
120°	237.2	224.8	212.4	192.6	162.0	141.3	133.9	132.2	132.2	128.9	128.9
122.5°	338.9	318.2	271.9	238.0	195.9	172.7	158.7	145.5	132.2	127.3	126.5
125°	474.4	435.6	376.9	317.4	259.5	210.8	170.3	145.5	133.1	125.6	124.0
127.5°	499.2	465.3	411.6	339.7	261.2	205.8	169.4	150.4	136.4	128.1	127.3
130°	421.5	405.0	357.0	295.1	234.7	191.7	167.8	150.4	137.2	129.8	128.1
132.5°	357.9	346.3	301.7	252.1	209.1	177.7	156.2	137.2	124.8	118.2	116.5
135°	307.5	300.0	261.2	225.6	193.4	167.8	145.5	127.3	117.4	113.2	112.4
137.5°	263.7	256.2	229.8	205.0	180.2	157.9	139.7	124.0	114.9	112.4	111.6
140°	236.4	229.8	213.2	186.8	162.8	139.7	126.5	116.5	111.6	109.9	109.1
142.5°	205.8	198.4	180.2	161.2	144.6	126.5	117.4	113.2	110.8	109.1	108.3
145°	195.1	190.1	169.4	152.1	136.4	127.3	122.3	116.5	111.6	108.3	107.4
147.5°	197.5	191.7	173.6	157.0	143.0	133.1	124.8	116.5	109.9	106.6	105.8
150°	176.9	175.2	164.5	151.2	138.0	127.3	119.0	112.4	108.3	107.4	107.4
152.5°	147.9	147.1	142.2	134.7	125.6	117.4	111.6	108.3	108.3	109.9	110.8
155°	138.9	136.4	133.1	128.1	120.7	114.9	110.8	109.1	109.9	111.6	111.6
157.5°	133.9	131.4	128.1	124.0	119.8	114.9	111.6	110.8	112.4	114.1	114.1
160°	127.3	125.6	123.1	119.0	115.7	113.2	111.6	111.6	112.4	113.2	113.2
162.5°	123.1	121.5	119.0	116.5	114.9	114.1	113.2	112.4	113.2	114.1	114.1
165°	123.1	122.3	119.0	116.5	115.7	115.7	115.7	115.7	115.7	114.9	114.9
167.5°	126.5	125.6	123.1	121.5	120.7	121.5	121.5	120.7	119.8	118.2	118.2
170°	129.8	128.9	128.1	127.3	126.5	127.3	127.3	127.3	126.5	126.5	125.6
172.5°	133.1	132.2	131.4	130.6	130.6	130.6	131.4	132.2	132.2	132.2	132.2
175°	136.4	136.4	134.7	133.9	133.9	133.9	134.7	134.7	135.5	135.5	135.5
177.5°	138.0	138.0	138.0	138.0	138.9	138.0	138.0	137.2	137.2	137.2	137.2
180°	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0

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

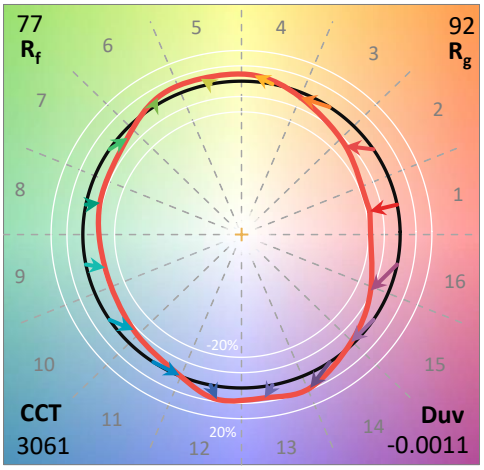
Test Information

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

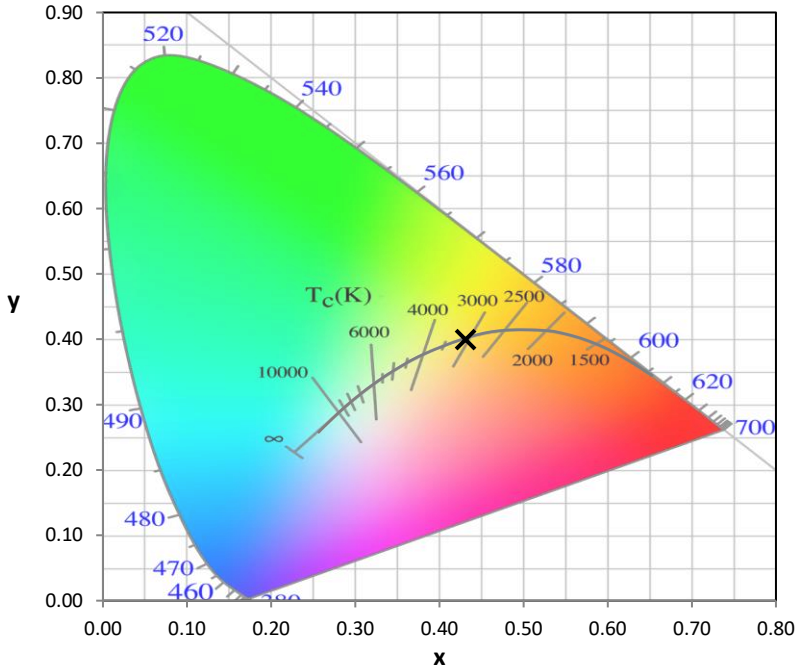
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

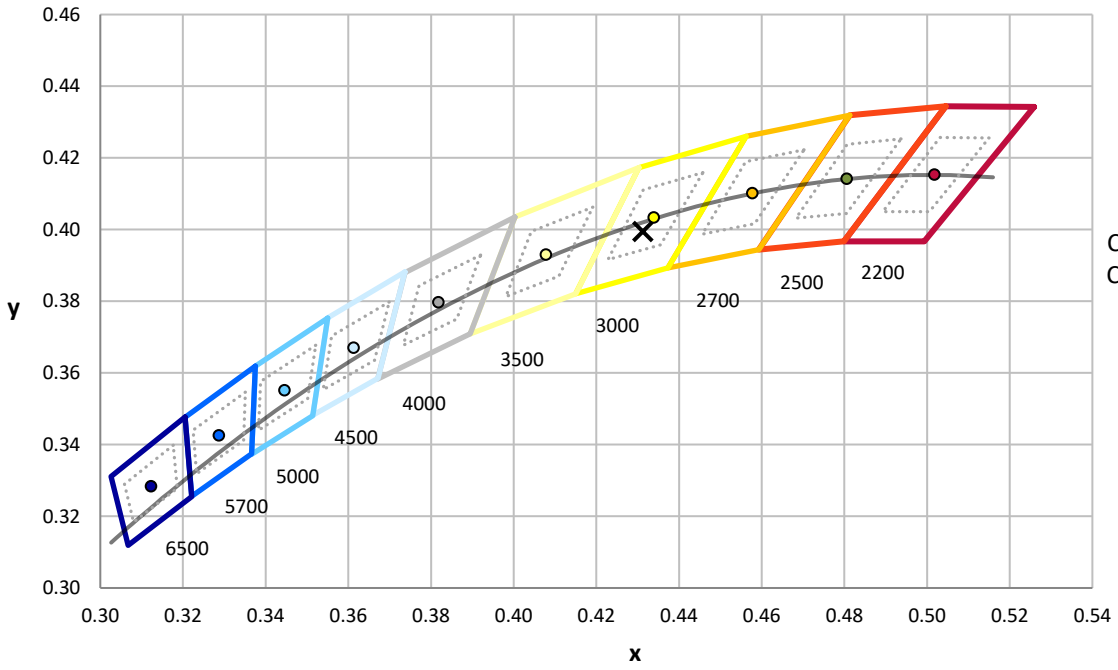
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

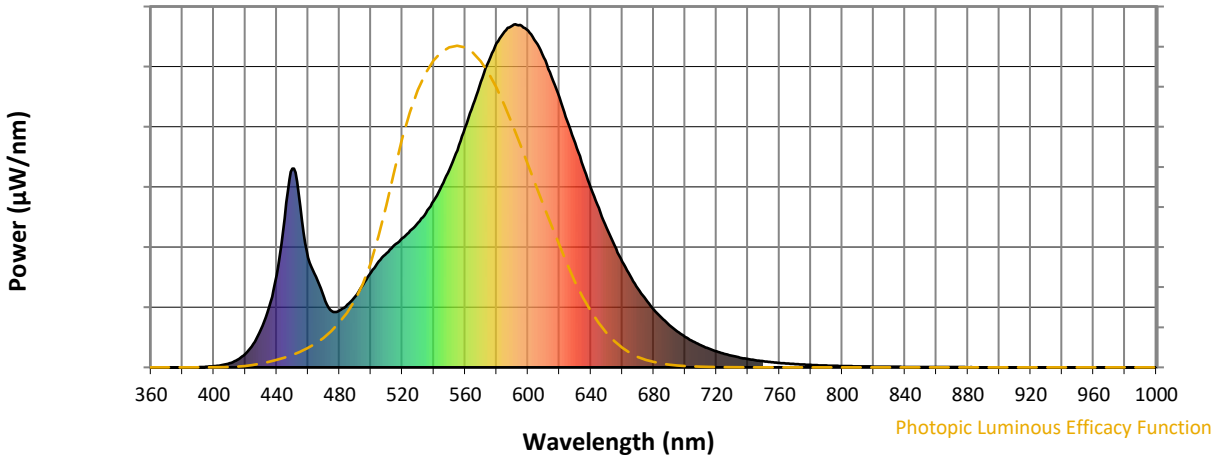


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

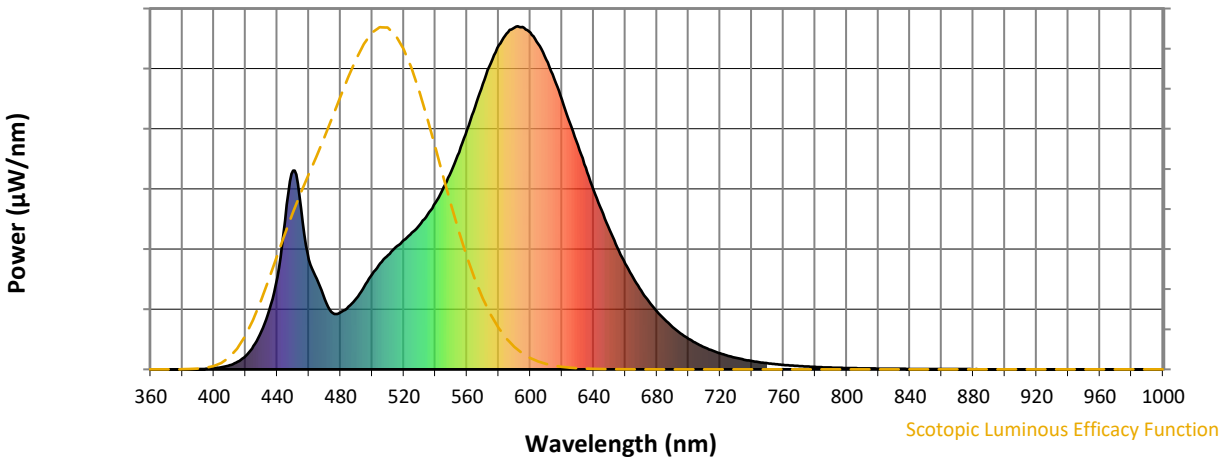


Photopic Lumens: NR

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

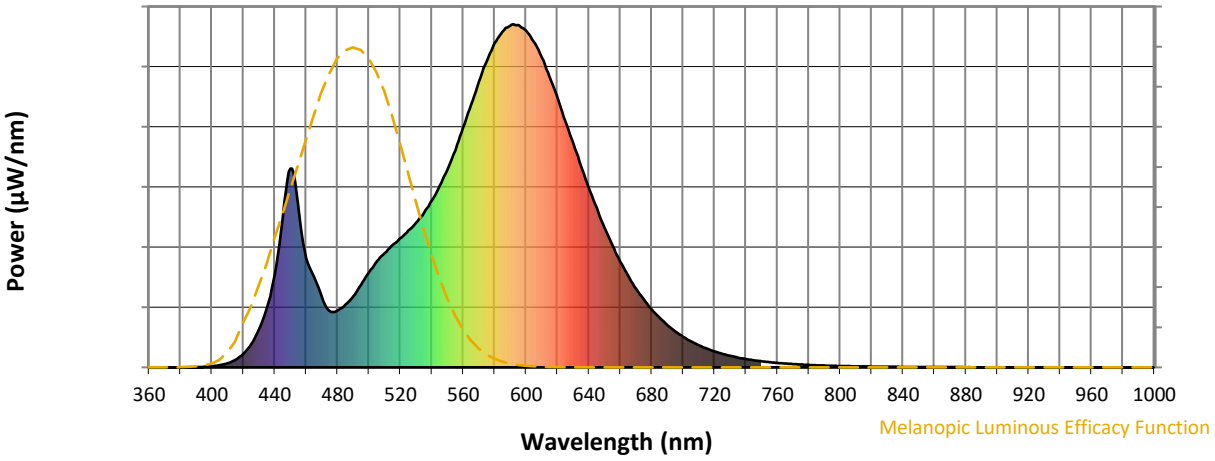


Scotopic Lumens: NR **S/P: 1.29**

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			

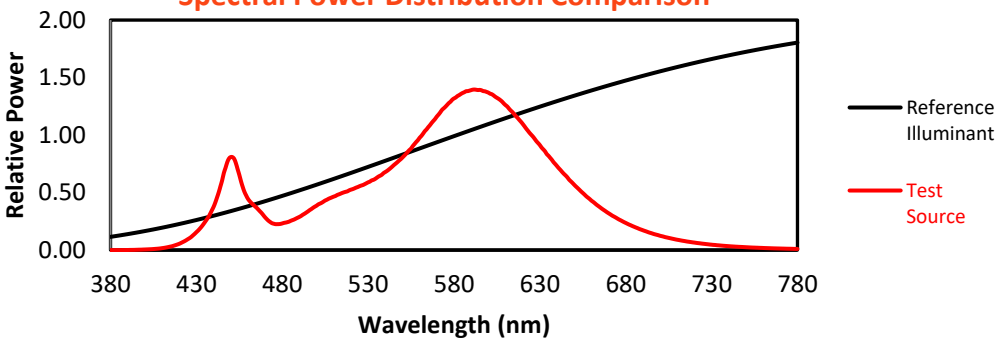
REPORT NUMBER: SP1-2501-332-4

TM-30-18

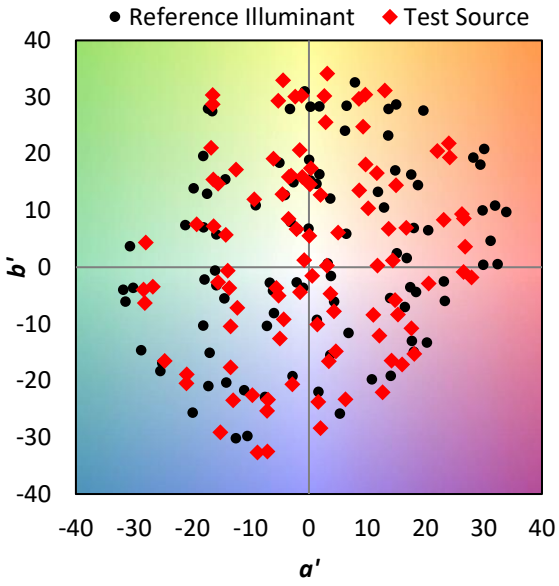
Summary

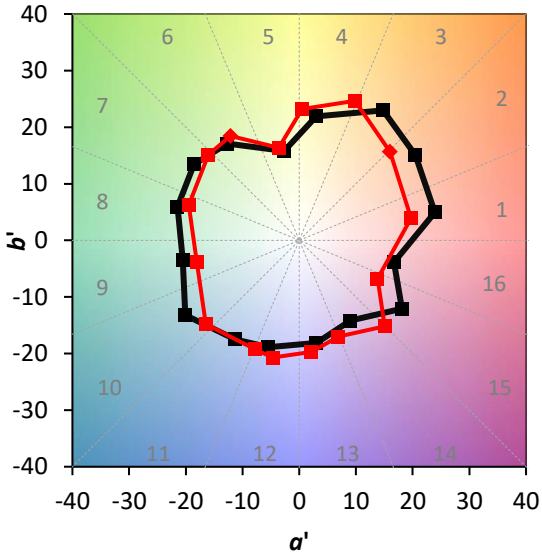
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

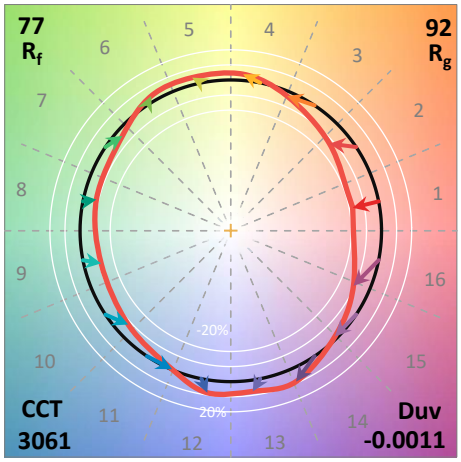
Spectral Power Distribution Comparison

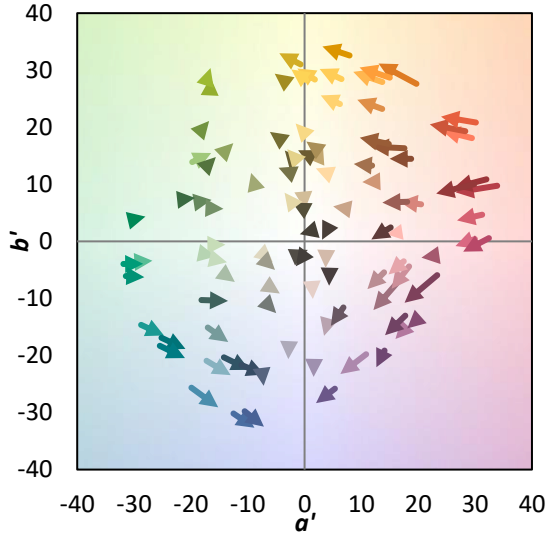


Color Vector Graphics







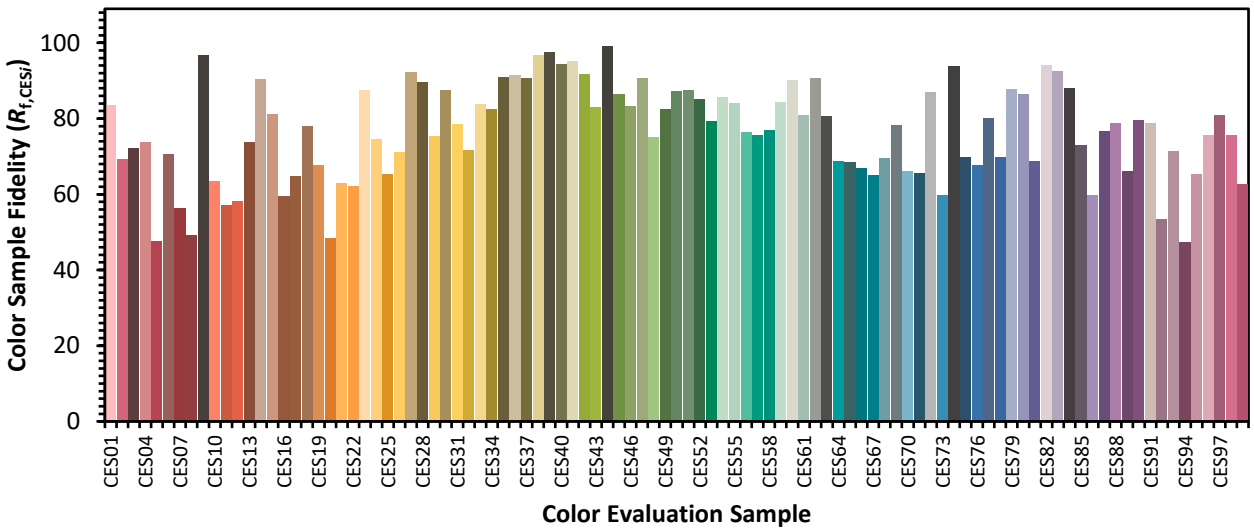


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

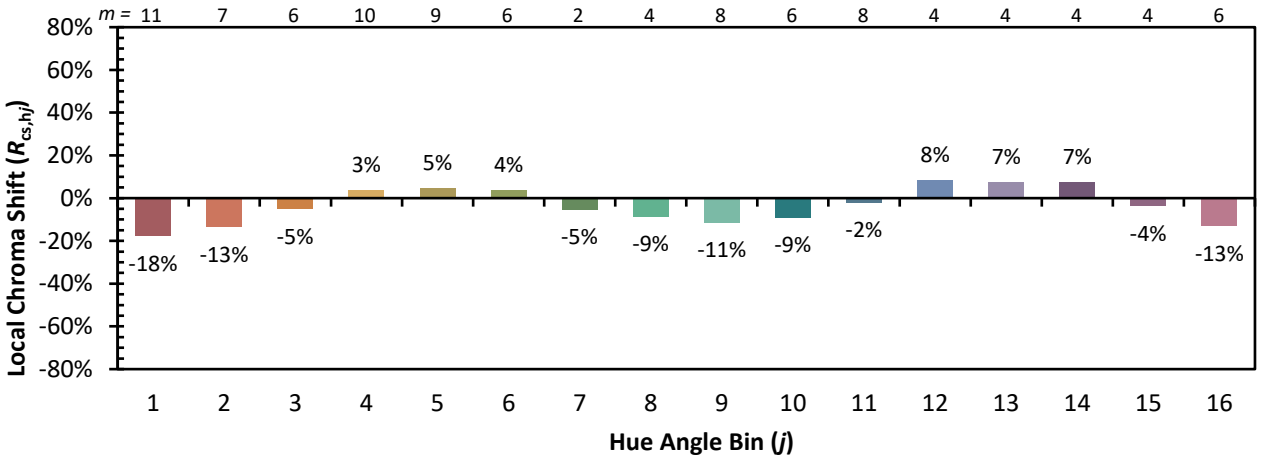
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 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
CES25 = 73	CES50 = 87	CES75 = 70	

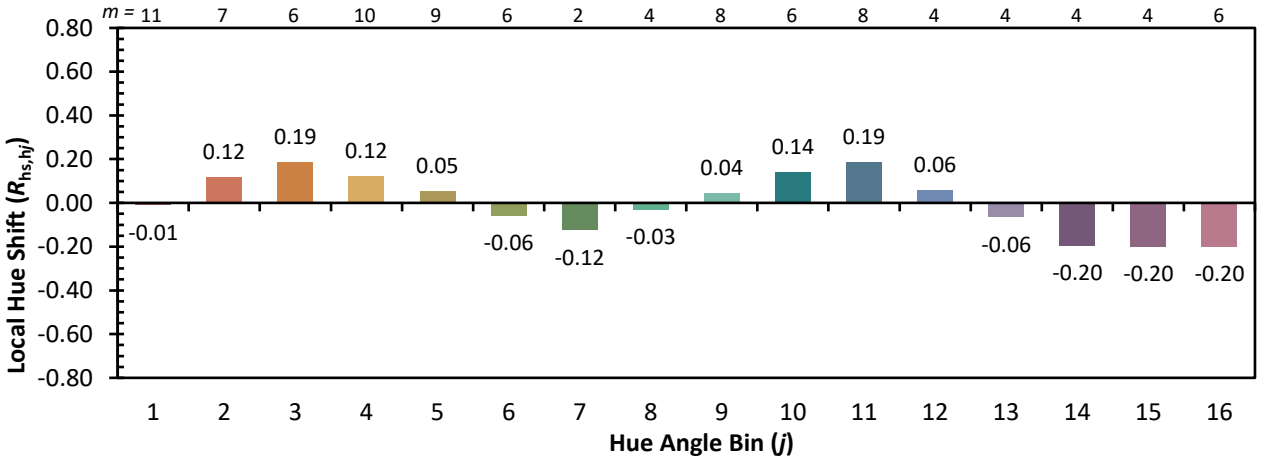


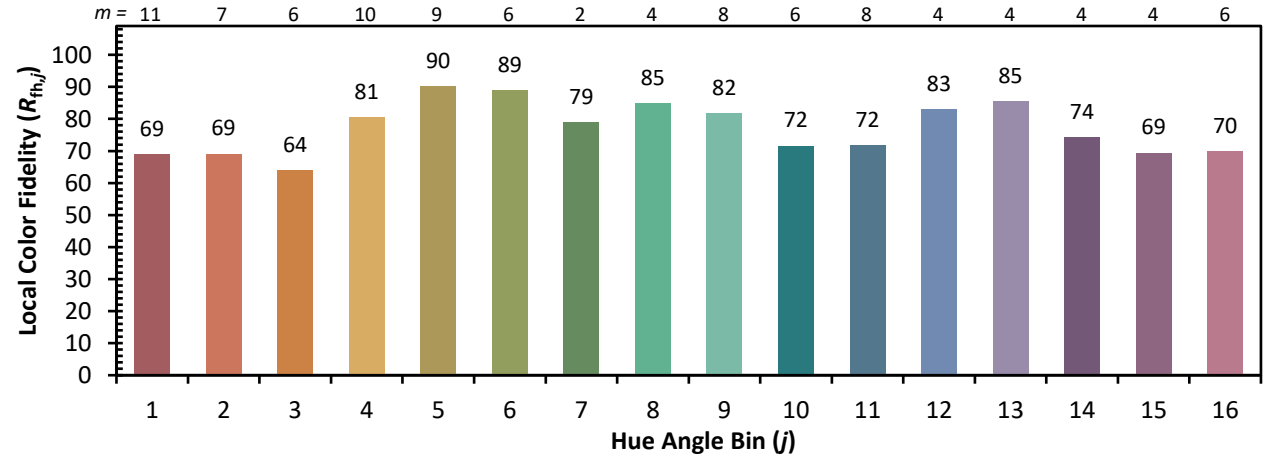
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Color Rendition by Hue-Angle Bin



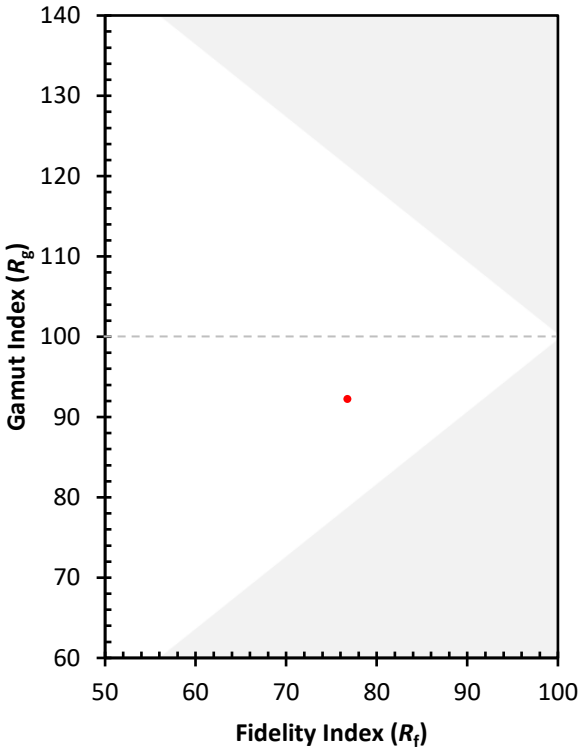


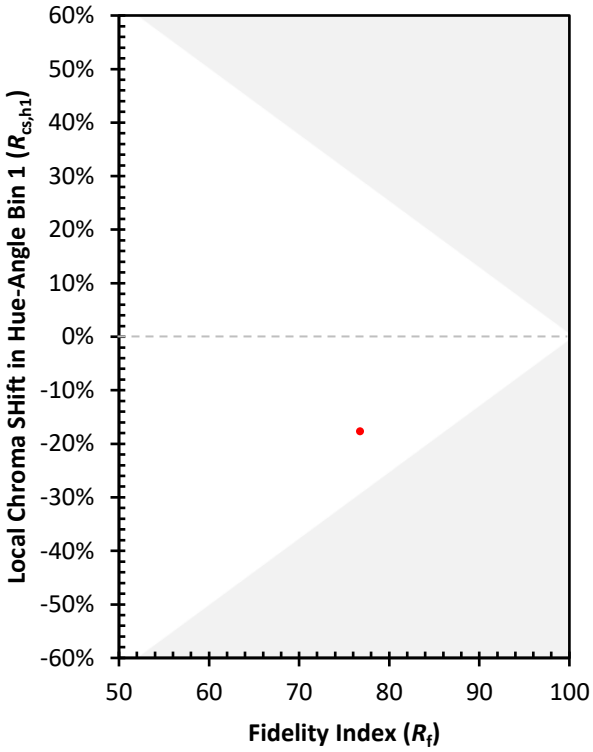


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Measure Comparisons





(END OF REPORT)