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: P981473

Luminaire Tested: **FFX-CLB-60-730-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981473
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-730-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9046.8 lumens
Efficiency:	N/A
Efficacy:	149.3 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

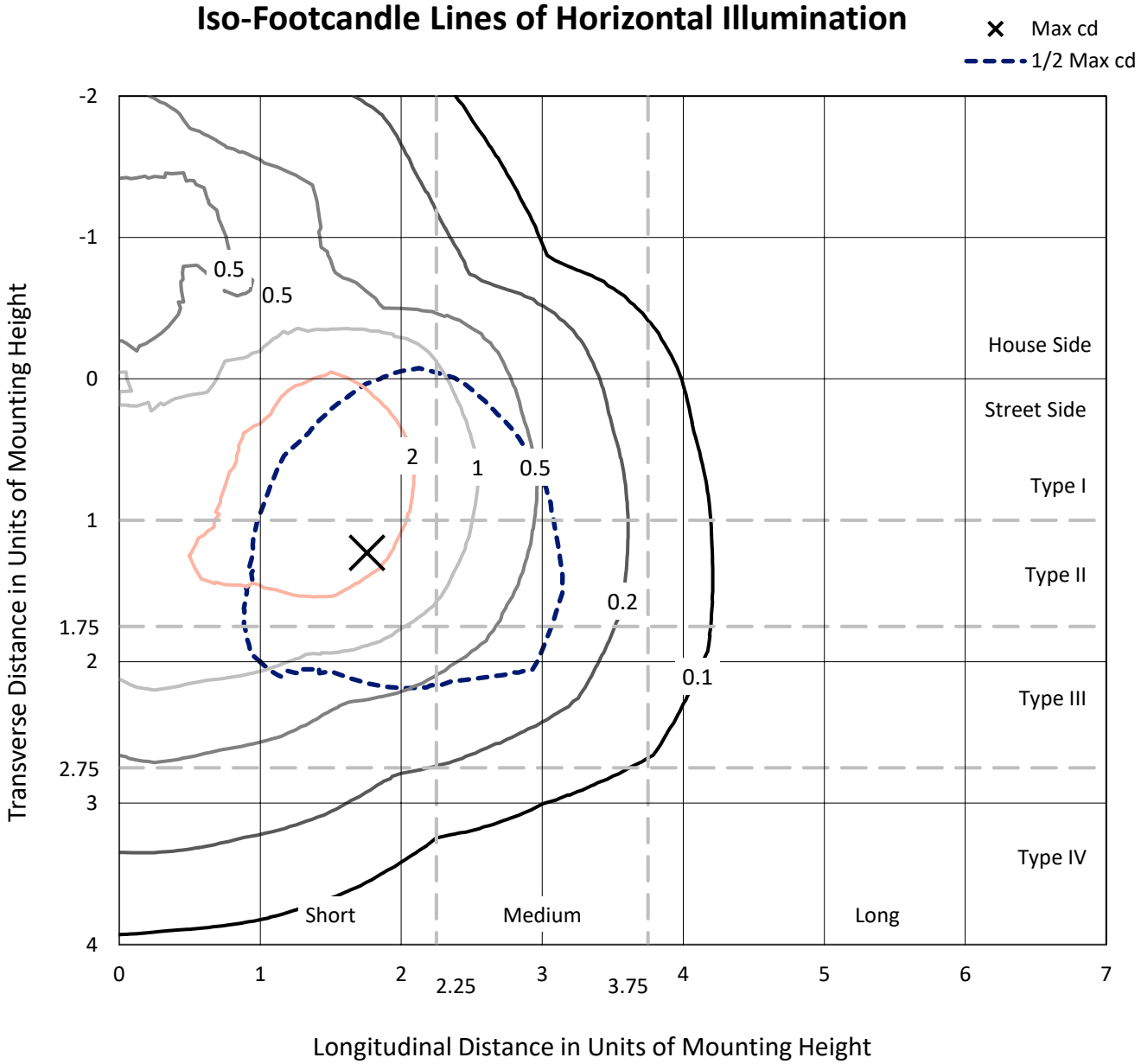


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Iso-Footcandle Lines of Horizontal Illumination



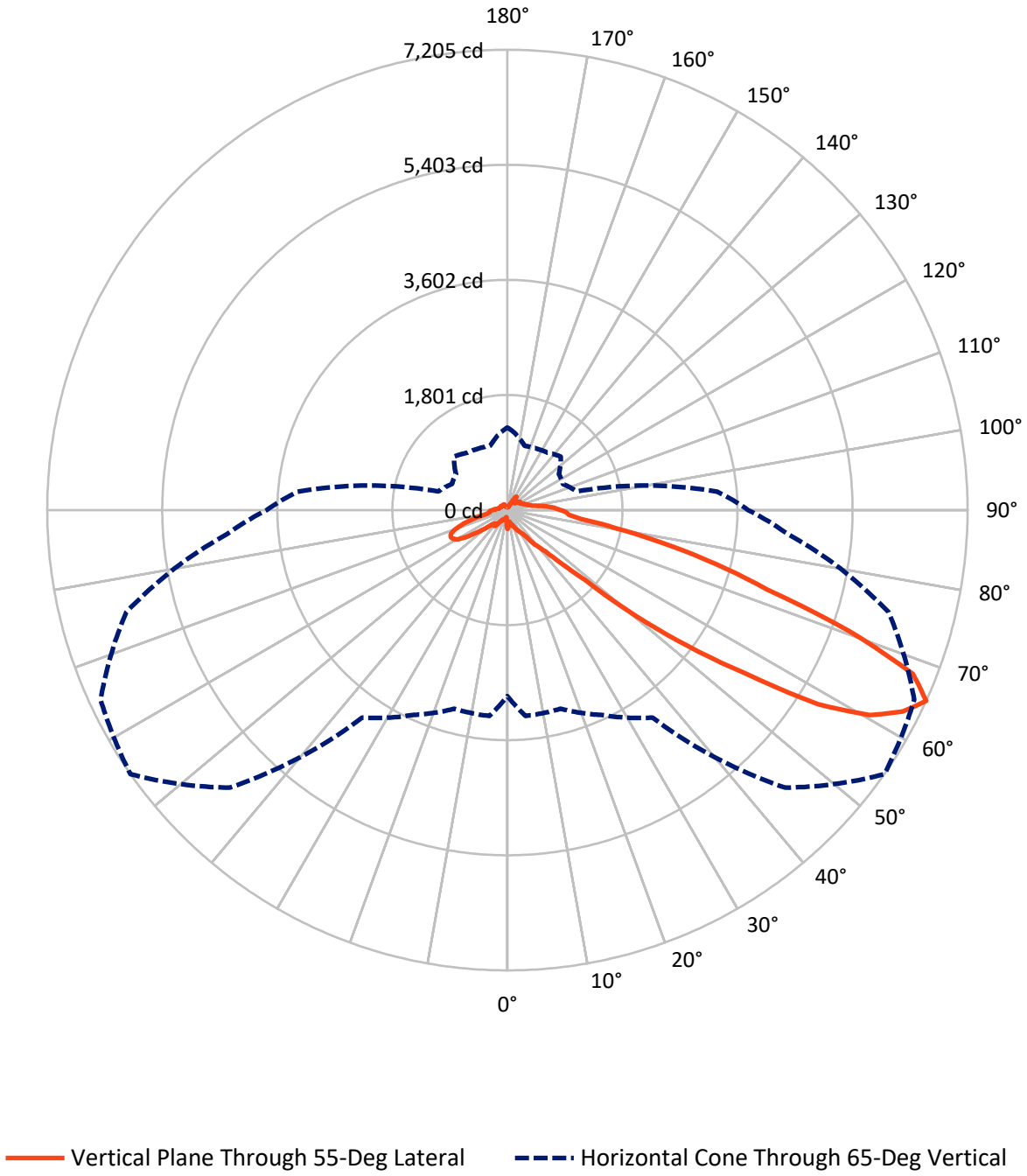
Based on 15 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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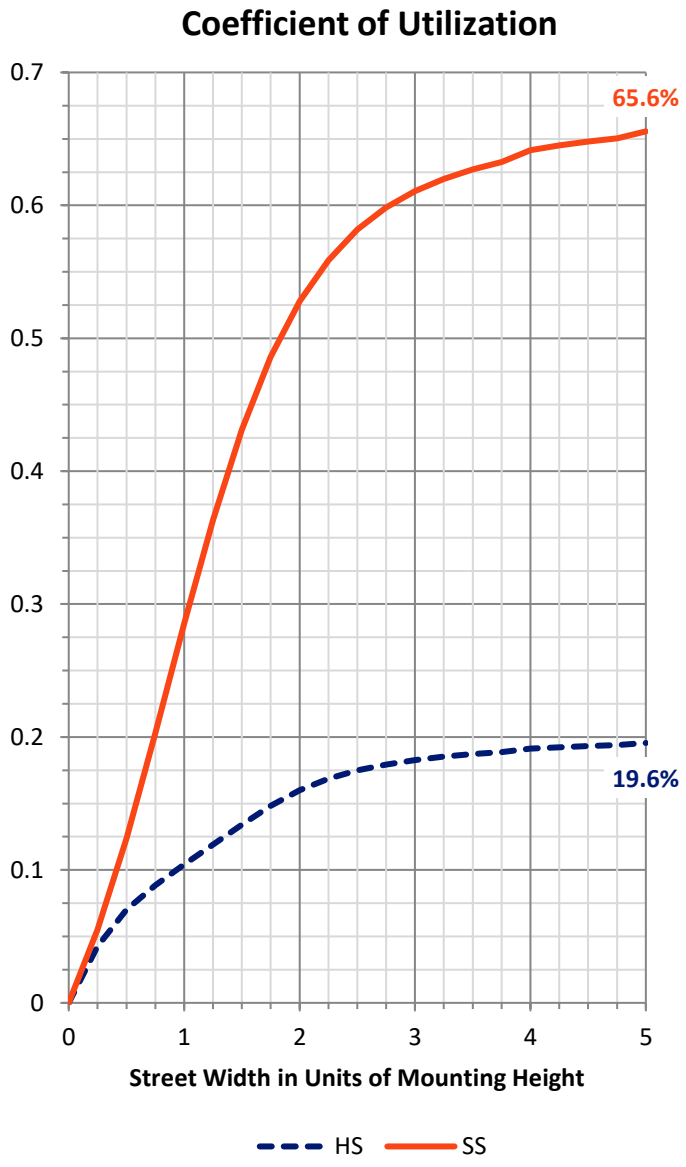
REPORT NUMBER: P981473
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1837.9	358.6	2196.5
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	6132.6	717.7	6850.3
	% Fixture	67.8	7.9	75.7
Total	Lumens	7970.5	1076.3	9046.8
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	0.2
10°-20°	55.3	0.6
20°-30°	113.1	1.3
30°-40°	245.2	2.7
40°-50°	595.2	6.6
50°-60°	1858.1	20.5
60°-70°	2952.5	32.6
70°-80°	1573.4	17.4
80°-90°	560.7	6.2
90°-100°	341.1	3.8
100°-110°	202.0	2.2
110°-120°	157.7	1.7
120°-130°	131.5	1.5
130°-140°	96.1	1.1
140°-150°	88.4	1.0
150°-160°	39.9	0.4
160°-170°	15.3	0.2
170°-180°	4.5	0.0
0°-90°	7970.5	88.1
0°-180°	9046.8	100.0



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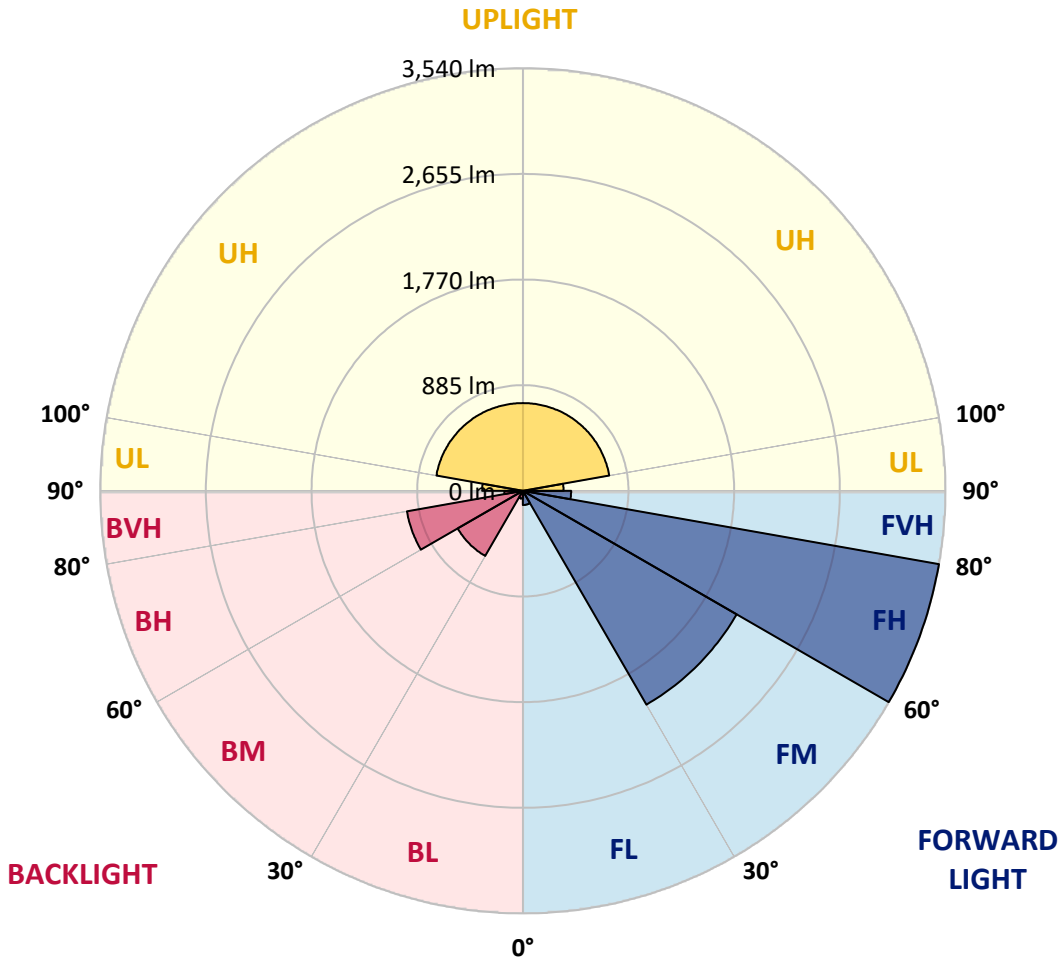
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	119.5	1.3			
FM	(30°-60°)	2068.6	22.9			
FH	(60°-80°)	3539.9	39.1			G2/5000
FVH	(80°-90°)	404.5	4.5			G3/500
BL	(0°-30°)	65.8	0.7	B0/110		
BM	(30°-60°)	629.9	7.0	B1/1000		
BH	(60°-80°)	986.0	10.9	B2/1000		G2/1000
BVH	(80°-90°)	156.1	1.7			G2/225
UL	(90°-100°)	341.1	3.8		U3/500	
UH	(100°-180°)	735.2	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°	293.5	293.5	293.5	293.5	293.5	293.5	*293.5*	293.5	293.5	293.5	293.5
2.5°	175.3	176.5	196.1	211.4	230.4	224.9	*224.9*	266.6	294.1	334.6	330.9
5°	187.5	179.5	183.2	196.7	222.4	234.7	*221.2*	175.3	145.2	157.5	172.2
7.5°	205.3	203.4	199.2	186.3	176.5	202.8	*239.6*	213.2	161.2	135.4	129.9
10°	210.2	210.8	209.6	210.8	215.7	204.1	*183.2*	166.7	161.8	159.3	157.5
12.5°	254.3	253.7	256.1	253.1	241.4	227.3	*231.6*	219.4	195.5	178.9	174.6
15°	296.6	295.4	294.7	283.1	264.1	241.4	*230.4*	235.9	220.6	201.6	193.0
17.5°	313.7	313.7	301.5	284.9	273.3	257.4	*248.8*	242.7	231.0	218.8	208.3
20°	307.0	306.4	294.1	287.4	288.6	281.3	*273.9*	264.7	253.1	233.5	220.6
22.5°	303.3	303.3	299.0	297.2	307.6	305.2	*303.3*	291.7	276.4	247.6	231.0
25°	327.2	325.4	319.9	319.9	329.7	337.6	*340.7*	331.5	306.4	262.9	247.6
27.5°	350.5	349.9	342.5	344.4	350.5	366.4	*371.3*	367.1	332.7	275.8	262.3
30°	378.7	374.4	368.3	379.3	378.1	400.1	*406.9*	411.8	368.3	302.1	286.2
32.5°	408.7	406.3	401.4	415.5	420.4	440.6	*446.1*	470.6	416.7	349.3	332.7
35°	459.6	457.8	470.6	498.2	497.6	535.6	*520.9*	557.6	506.8	434.5	417.9
37.5°	688.8	678.4	663.6	637.3	635.5	688.2	*671.6*	700.4	628.7	527.0	508.6
40°	717.0	715.1	708.4	678.4	661.2	751.3	*762.3*	847.5	729.2	612.8	577.2
42.5°	700.4	702.9	792.9	811.9	777.0	887.9	*906.3*	1055.8	842.6	743.3	678.4
45°	844.4	848.1	877.5	891.0	888.5	1167.4	*1212.7*	1395.9	1041.1	926.5	806.4
47.5°	967.0	954.1	1007.4	1110.4	1180.8	1495.8	*1641.7*	1922.9	1399.0	1229.9	1007.4
50°	1328.5	1325.5	1454.1	1566.9	1636.7	2152.1	*2601.3*	2910.1	2050.4	1783.2	1405.7
52.5°	1573.6	1677.8	1801.0	2062.0	2125.1	2928.5	*3536.4*	3783.9	2833.5	2342.1	1919.2
55°	1822.4	1972.6	2110.4	2516.7	2726.3	3804.8	*4496.6*	4564.6	3721.4	2847.6	2421.7
57.5°	2285.1	2538.2	2627.0	2951.2	3257.6	4814.7	*5732.0*	5659.7	4636.9	3434.0	2983.0
60°	2703.6	3008.2	2982.4	3299.8	3693.9	5637.6	*6516.4*	6440.4	5474.6	3954.9	3414.4
62.5°	2843.9	3150.9	3116.0	3461.6	3965.3	6078.8	*6944.1*	6814.2	6023.1	4288.9	3653.4
65°	*2909.5*	*3235.5*	*3218.3*	*3540.7*	*3965.3*	*6142.6*	*7204.5*	*7026.8*	*6176.3*	*4417.6*	*3768.6*
67.5°	2851.9	3166.3	3177.3	3463.5	3731.9	5682.4	*6849.1*	6607.7	5792.7	4108.7	3562.7
70°	2492.8	2712.8	2685.2	2944.4	2970.8	4548.7	*5684.2*	5421.3	4706.2	3426.1	2948.1
72.5°	2059.6	2112.9	2090.2	2253.8	2284.5	3331.7	*4248.4*	4099.5	3514.3	2549.2	2252.6
75°	1642.3	1633.7	1680.3	1718.3	1686.4	2445.6	*3364.2*	3195.1	2600.0	1919.9	1733.6
77.5°	1136.1	1070.5	1193.1	1204.7	1154.5	1626.3	*2481.8*	2417.4	1863.5	1414.9	1277.7
80°	638.5	645.9	733.5	785.6	767.2	1035.0	*1726.8*	1684.5	1272.8	989.0	878.7
82.5°	492.7	514.7	555.8	595.0	569.3	791.7	*1168.0*	1171.0	930.8	722.5	660.0
85°	541.7	553.3	558.9	560.1	539.9	736.0	*968.2*	955.3	790.5	604.8	585.2
87.5°	528.2	540.5	542.3	542.9	525.2	701.0	*916.7*	896.5	753.7	580.9	550.9
90°	452.8	473.7	476.1	492.1	471.2	626.3	*807.0*	786.8	679.6	523.9	495.7
92.5°	389.1	400.1	411.8	430.8	408.7	545.4	*722.5*	697.3	608.5	473.7	435.1
95°	356.0	362.2	372.0	379.3	353.6	463.3	*604.2*	577.9	493.9	381.2	346.8
97.5°	286.2	291.7	296.0	305.2	287.4	367.1	*468.8*	444.3	387.3	303.3	277.6
100°	244.5	248.2	253.1	259.2	244.5	307.6	*384.8*	373.8	322.3	256.1	239.6
102.5°	223.7	226.7	235.3	235.3	226.1	281.3	*343.8*	335.2	289.8	232.2	221.2
105°	215.7	216.3	223.7	220.6	214.5	262.3	*320.5*	309.5	271.5	220.6	207.7
107.5°	205.3	205.9	215.1	210.2	205.3	243.3	*290.5*	285.6	251.2	205.9	194.9
110°	194.9	196.7	208.3	204.1	201.0	228.6	*272.1*	262.9	240.2	199.2	190.0

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REPORT NUMBER: P981473
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	186.9	188.1	199.2	196.1	193.6	218.8	*252.5*	252.5	234.7	199.2	186.9
115°	180.2	182.6	191.8	185.7	181.4	205.9	*232.9*	234.1	219.4	190.0	177.7
117.5°	168.5	174.0	178.9	181.4	176.5	197.3	*221.2*	220.0	212.0	183.2	174.6
120°	191.8	187.5	191.2	195.5	187.5	204.1	*224.3*	224.3	216.3	180.2	172.8
122.5°	200.4	194.3	197.9	193.6	193.0	214.5	*239.6*	241.4	224.9	185.7	167.3
125°	177.7	175.3	171.0	169.7	174.6	194.9	*217.5*	225.5	207.7	177.7	156.3
127.5°	152.0	148.9	143.4	146.5	155.6	175.9	*187.5*	191.8	184.4	164.8	148.9
130°	140.3	139.7	144.0	149.5	156.9	174.0	*177.7*	183.8	183.8	160.5	151.4
132.5°	128.1	128.7	142.2	161.2	166.7	170.4	*162.4*	174.0	179.5	163.6	153.2
135°	126.2	126.8	134.2	149.5	150.1	152.6	*153.2*	167.9	171.6	156.3	144.6
137.5°	137.9	137.9	132.4	135.4	142.2	160.5	*166.7*	178.3	175.3	147.7	130.5
140°	152.0	148.9	131.7	132.4	144.0	166.7	*174.6*	182.0	178.3	144.6	124.4
142.5°	125.6	126.8	129.9	141.6	155.0	206.5	*199.8*	218.2	210.8	153.2	121.3
145°	196.1	196.7	193.0	197.9	206.5	274.5	*253.7*	283.1	291.7	200.4	144.0
147.5°	214.5	216.9	210.2	205.9	230.4	251.2	*228.0*	252.5	269.0	210.2	154.4
150°	167.3	166.7	162.4	168.5	185.1	183.8	*171.6*	180.2	186.9	160.5	132.4
152.5°	118.9	117.0	114.6	115.2	134.8	129.9	*126.2*	133.6	133.6	123.2	106.0
155°	98.7	98.7	97.4	100.5	111.5	102.9	*99.9*	98.7	97.4	94.4	87.6
157.5°	83.3	85.2	83.3	87.0	94.4	86.4	*84.6*	82.7	83.3	83.3	81.5
160°	69.2	69.2	68.0	74.1	76.6	70.5	*67.4*	66.2	66.2	69.9	69.9
162.5°	58.2	58.2	58.8	61.3	63.1	58.8	*57.0*	57.0	58.8	64.3	64.3
165°	50.2	50.2	50.9	52.7	53.9	51.5	*50.2*	50.9	55.8	60.7	60.7
167.5°	46.0	46.0	46.0	46.6	47.2	46.0	*46.0*	48.4	52.7	55.8	55.8
170°	43.5	43.5	42.9	43.5	43.5	43.5	*46.0*	48.4	50.2	50.2	50.2
172.5°	44.1	44.1	43.5	44.1	44.1	43.5	*46.6*	49.6	48.4	47.8	47.8
175°	45.3	45.3	45.3	46.0	46.0	44.7	*44.1*	45.3	46.6	46.6	46.0
177.5°	45.3	45.3	44.7	45.3	44.7	43.5	*42.9*	42.3	42.3	41.7	41.7
180°	42.3	42.3	42.3	42.3	42.3	42.3	*42.3*	42.3	42.3	42.3	42.3

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	293.5	293.5	293.5	293.5	293.5	293.5	293.5	293.5	293.5	293.5
2.5°	299.7	258.6	228.0	251.9	304.6	330.9	304.6	231.6	163.0	142.8
5°	179.5	174.6	157.5	153.8	160.5	154.4	171.6	162.4	128.7	129.9
7.5°	134.2	162.4	156.9	112.1	104.8	98.0	103.6	118.3	121.9	114.0
10°	155.6	140.3	122.6	114.0	124.4	134.2	127.5	110.9	95.6	91.3
12.5°	171.6	170.4	172.2	154.4	126.8	117.0	113.4	121.9	148.3	154.4
15°	184.4	170.4	157.5	153.8	135.4	125.6	120.7	118.3	113.4	109.7
17.5°	197.3	174.0	159.9	145.8	136.7	127.5	117.0	111.5	110.9	111.5
20°	205.9	184.4	167.9	152.0	140.3	128.1	117.7	112.8	112.8	112.8
22.5°	216.3	195.5	177.7	157.5	144.0	130.5	121.9	117.0	116.4	116.4
25°	233.5	210.2	189.4	167.3	152.6	140.3	128.7	122.6	120.7	120.1
27.5°	253.1	227.3	202.2	179.5	164.2	150.7	135.4	126.2	123.8	123.2
30°	278.2	248.8	216.9	193.0	174.0	161.2	142.8	131.7	126.8	126.2
32.5°	319.3	280.7	239.0	212.6	190.0	172.8	152.6	139.1	131.1	129.3
35°	398.3	351.1	288.6	250.6	214.5	187.5	161.2	143.4	135.4	134.2
37.5°	486.6	414.9	354.2	310.1	265.9	220.6	174.6	150.1	140.3	138.5
40°	524.5	456.5	392.2	322.9	313.1	277.6	214.5	166.7	147.1	144.0
42.5°	607.9	511.1	424.0	285.6	308.2	306.4	264.7	204.1	165.5	158.1
45°	715.7	581.5	471.8	305.2	310.7	299.7	271.5	235.9	201.0	193.0
47.5°	891.6	650.2	487.2	343.2	349.3	322.9	284.3	248.8	223.7	220.6
50°	1273.4	851.8	543.5	415.5	435.1	374.4	326.6	296.0	265.9	260.4
52.5°	1731.1	1009.3	601.8	518.4	588.9	501.9	429.6	373.2	371.3	364.0
55°	2213.4	1069.9	679.0	631.8	741.5	666.1	595.6	544.2	570.5	573.0
57.5°	2755.1	1134.9	790.5	780.1	926.5	806.4	747.0	761.1	948.0	1020.9
60°	3116.0	1188.2	886.7	902.6	1095.7	978.6	933.9	965.1	1282.6	1415.5
62.5°	3276.6	1161.2	933.9	961.5	1168.6	1083.4	1076.1	1092.6	1361.6	1486.0
65°	*3298.6*	*1121.4*	*959.6*	*983.5*	*1181.5*	*1094.4*	*1063.2*	*1039.9*	*1218.8*	*1291.8*
67.5°	3027.8	1036.8	939.4	964.5	1123.2	1019.1	941.2	888.5	992.1	999.5
70°	2464.0	925.9	870.8	880.0	959.6	853.0	779.5	734.1	758.0	748.2
72.5°	1910.7	816.2	775.8	754.3	778.2	686.9	599.9	576.6	599.3	588.9
75°	1451.7	729.2	684.5	612.2	651.4	528.8	432.0	411.2	421.0	406.9
77.5°	1067.5	587.7	535.6	452.8	506.8	383.6	291.7	270.2	273.9	260.4
80°	778.9	434.5	391.6	324.8	365.2	272.7	210.8	207.1	206.5	197.9
82.5°	601.8	345.0	313.1	279.4	286.2	240.8	199.8	193.6	193.6	180.8
85°	558.2	334.0	301.5	277.6	279.4	233.5	190.0	186.3	188.1	174.6
87.5°	521.5	326.6	300.3	271.5	257.4	211.4	171.0	175.3	176.5	164.8
90°	447.3	290.5	266.6	239.0	222.4	179.5	153.2	161.2	162.4	152.0
92.5°	392.2	249.4	229.2	207.7	200.4	168.5	147.1	153.2	153.2	144.0
95°	312.5	204.1	194.9	184.4	182.6	157.5	137.3	140.3	139.1	131.1
97.5°	254.3	177.1	169.1	159.3	153.2	134.8	120.7	123.8	124.4	118.9
100°	223.7	163.6	152.6	141.6	135.4	121.3	110.3	115.8	119.5	114.6
102.5°	209.0	156.3	144.0	132.4	127.5	114.6	104.2	109.1	114.0	109.7
105°	198.5	150.7	137.9	127.5	121.3	108.5	98.0	99.3	105.4	102.9
107.5°	185.1	150.7	134.2	123.8	116.4	104.8	92.5	91.3	95.0	94.4
110°	180.2	150.7	131.7	121.3	113.4	102.9	91.9	87.0	88.9	88.9

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

Scaled Data Report

REPORT NUMBER: P981473
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	175.9	149.5	129.3	117.0	110.3	101.7	90.7	83.3	85.2	86.4
115°	166.1	137.9	121.9	109.1	102.3	93.1	85.8	80.3	80.9	82.1
117.5°	160.5	127.5	118.3	106.6	101.7	96.2	89.5	79.0	79.0	80.3
120°	160.5	125.6	121.3	117.0	114.6	105.4	94.4	79.0	77.2	77.2
122.5°	158.1	139.7	132.4	122.6	115.8	103.6	90.1	77.2	76.0	76.0
125°	145.2	133.6	121.9	110.3	102.3	92.5	84.6	77.8	75.4	75.4
127.5°	138.5	120.1	109.1	99.9	94.4	89.5	84.6	77.8	74.8	74.1
130°	140.3	121.3	107.2	99.9	95.6	90.7	85.2	76.6	71.7	71.1
132.5°	141.6	117.0	103.6	97.4	94.4	90.7	83.3	72.3	66.8	66.8
135°	128.1	105.4	99.3	95.0	93.1	90.1	79.0	68.6	64.3	63.7
137.5°	116.4	102.3	98.0	93.8	90.7	86.4	77.8	67.4	61.9	61.3
140°	111.5	99.9	93.8	85.8	82.1	73.5	67.4	61.3	59.4	58.8
142.5°	106.0	93.8	86.4	79.7	77.8	74.8	71.1	61.3	55.2	55.2
145°	126.8	112.8	104.2	97.4	88.9	82.7	71.1	58.8	50.9	49.6
147.5°	133.0	120.1	111.5	102.3	86.4	72.9	60.1	51.5	48.4	47.2
150°	116.4	105.4	96.2	86.4	72.3	63.1	54.5	49.0	47.8	47.8
152.5°	92.5	86.4	76.6	69.9	60.7	55.2	50.2	47.2	46.0	46.0
155°	76.6	71.7	66.2	60.7	55.8	52.1	49.0	46.6	45.3	45.3
157.5°	74.1	66.8	61.9	57.0	53.9	50.2	47.8	45.3	44.7	44.1
160°	67.4	58.8	54.5	51.5	50.9	49.6	47.8	46.0	45.3	44.7
162.5°	62.5	53.9	50.9	49.0	50.9	52.1	50.9	48.4	46.6	46.0
165°	58.8	50.9	48.4	48.4	52.1	53.9	50.9	48.4	48.4	47.8
167.5°	54.5	52.1	49.0	48.4	51.5	55.2	55.8	51.5	49.6	49.0
170°	50.9	51.5	51.5	49.6	50.2	53.3	54.5	53.3	50.9	50.2
172.5°	48.4	49.6	52.1	50.9	50.9	52.1	53.3	52.1	50.2	49.6
175°	46.0	46.6	45.3	46.0	47.8	49.6	49.0	48.4	47.8	47.8
177.5°	41.7	41.7	42.3	42.3	42.9	44.7	45.3	45.3	46.6	46.6
180°	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3

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: SP1-2501-332-4

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

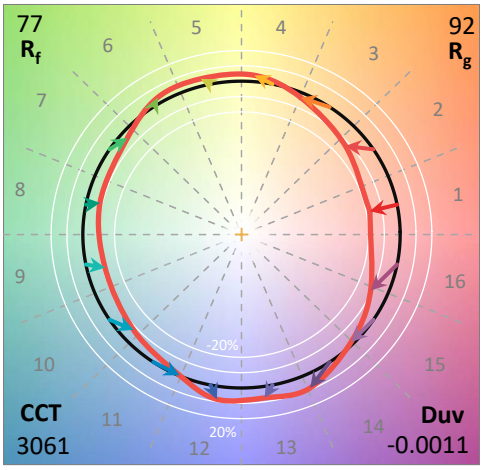
Test Information

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

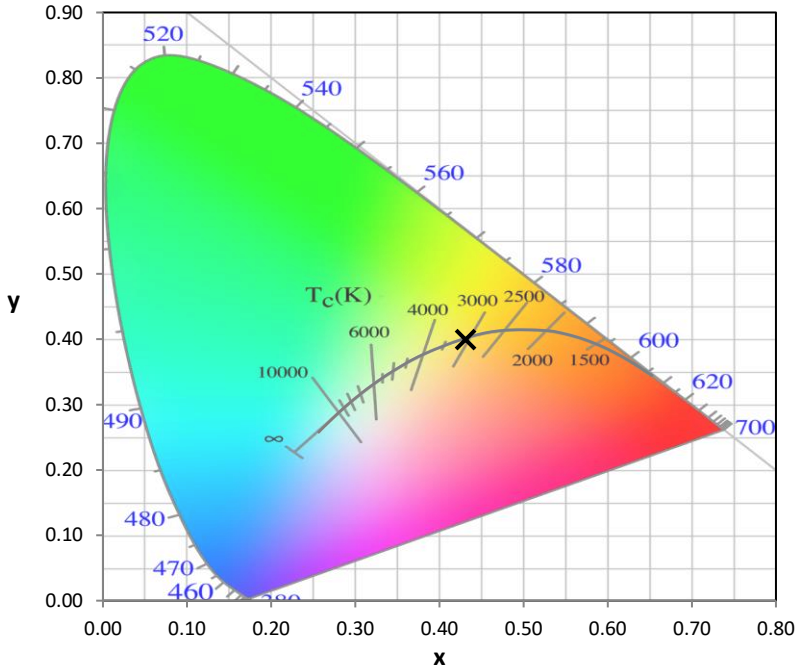
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

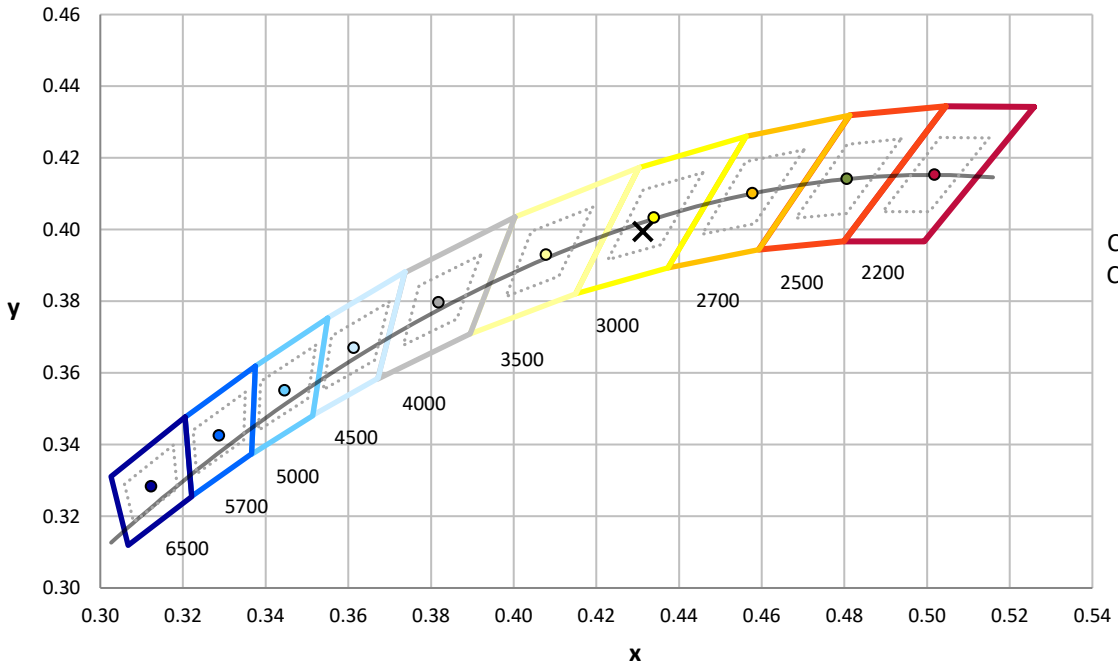
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

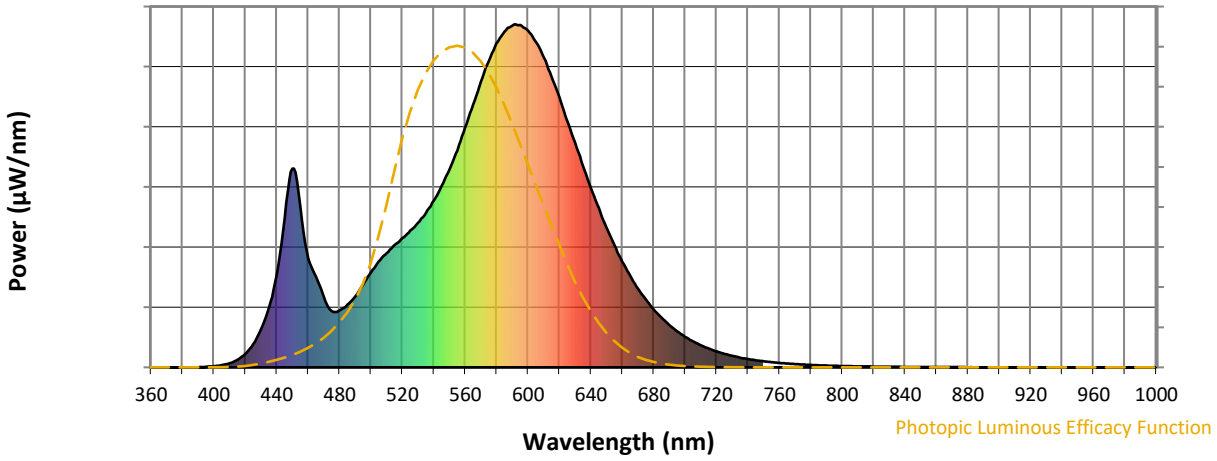


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

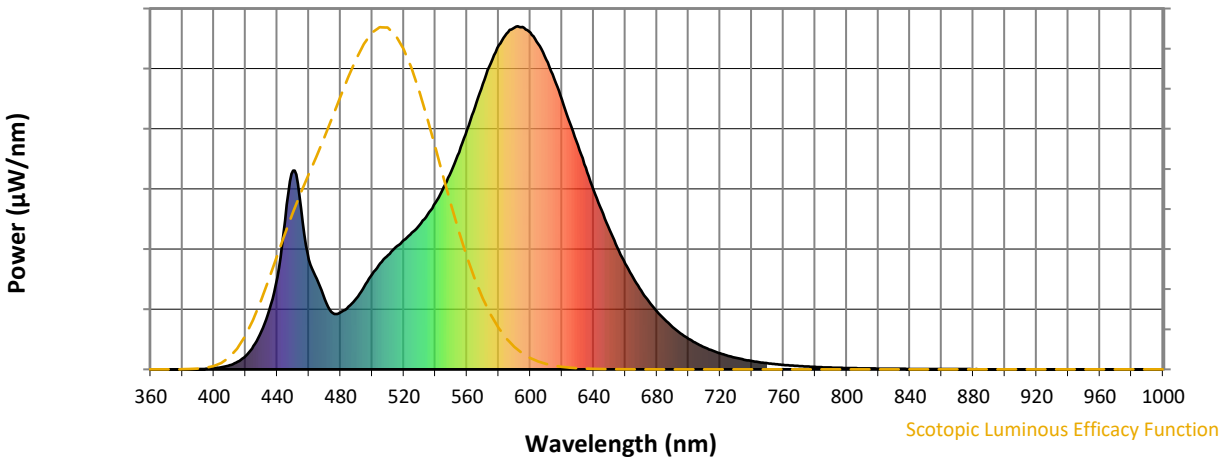


Photopic Lumens: NR

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

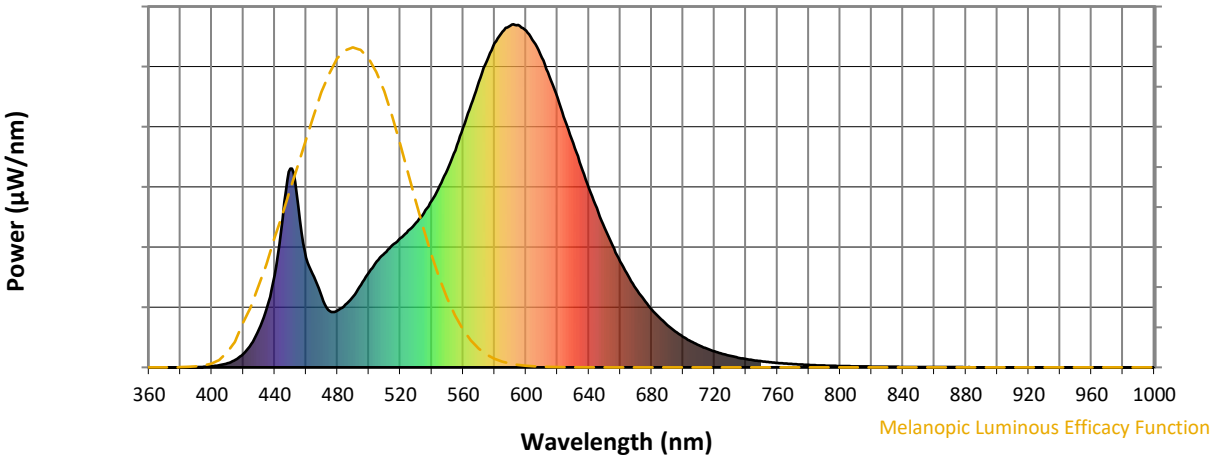


Scotopic Lumens: NR **S/P: 1.29**

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			

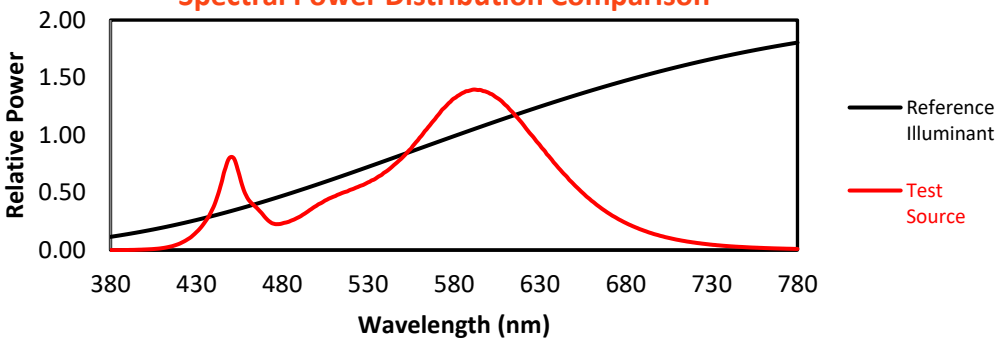
REPORT NUMBER: SP1-2501-332-4

TM-30-18

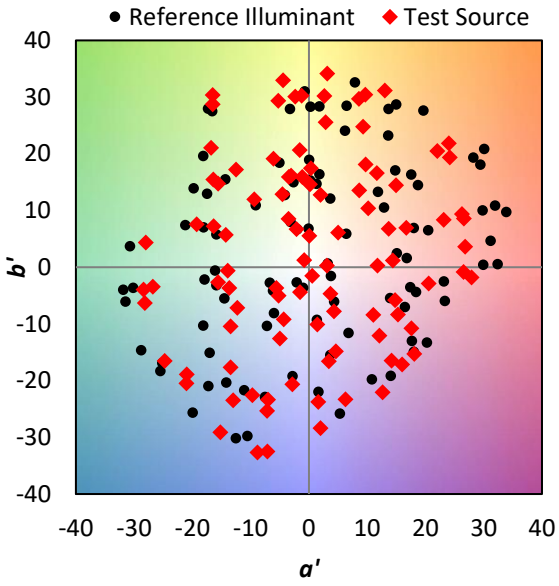
Summary

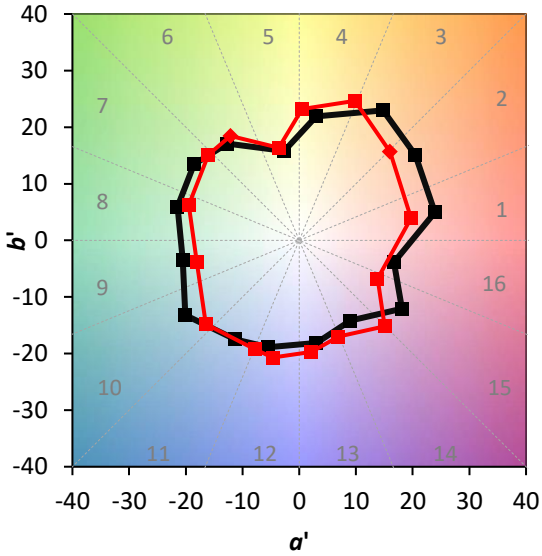
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

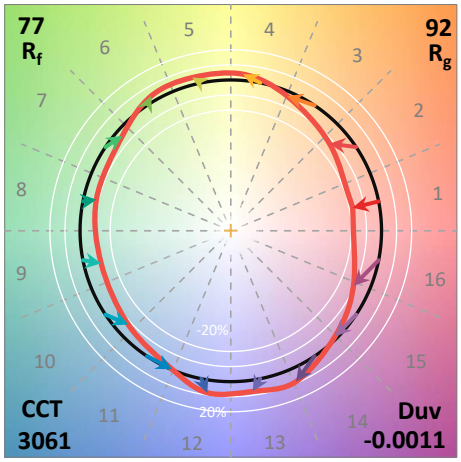
Spectral Power Distribution Comparison

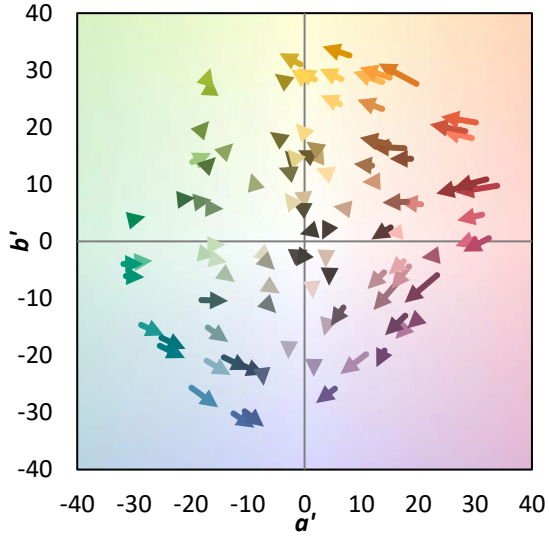


Color Vector Graphics







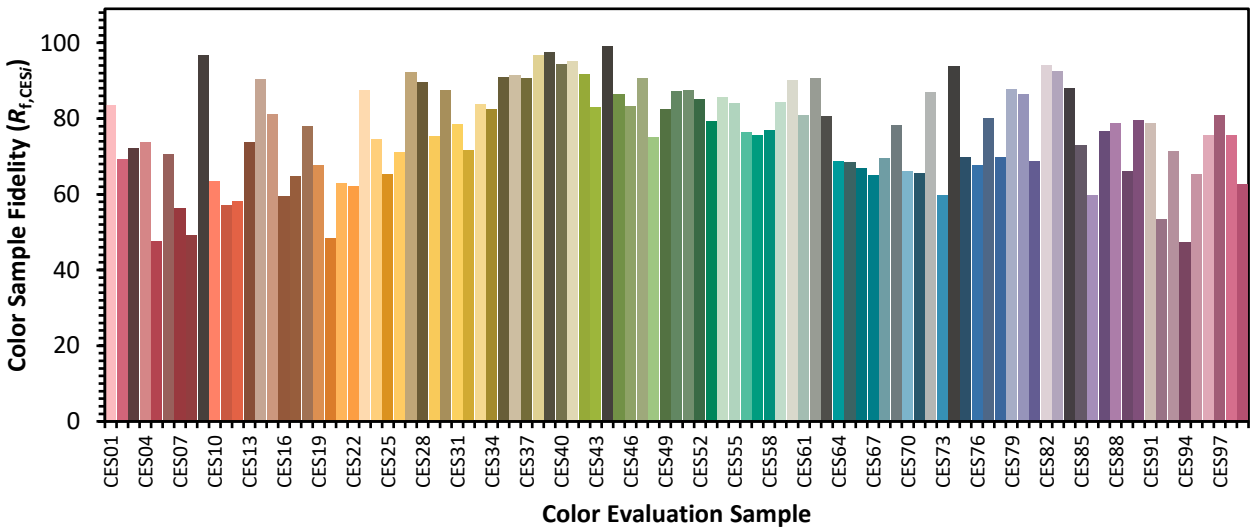


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

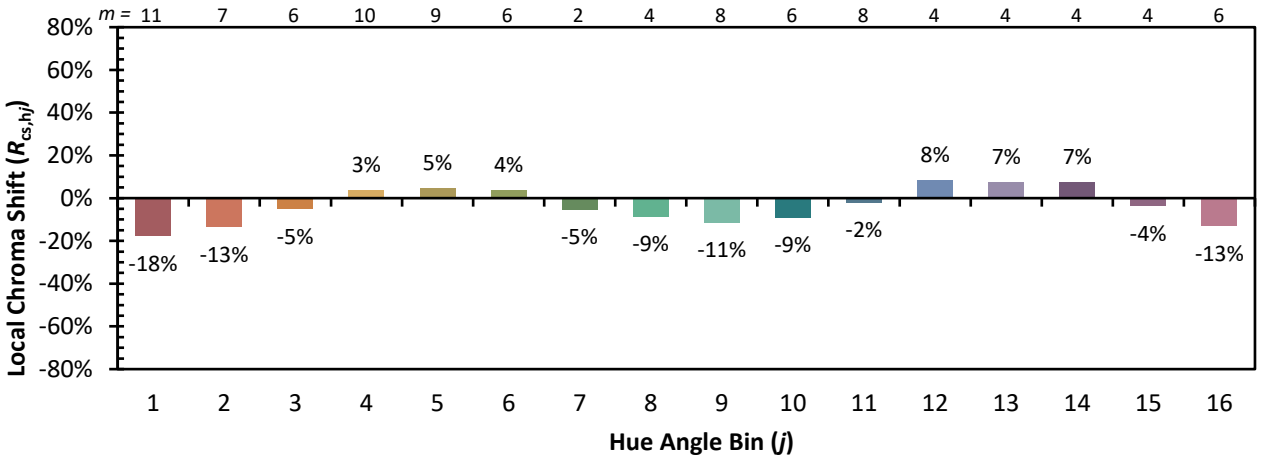
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

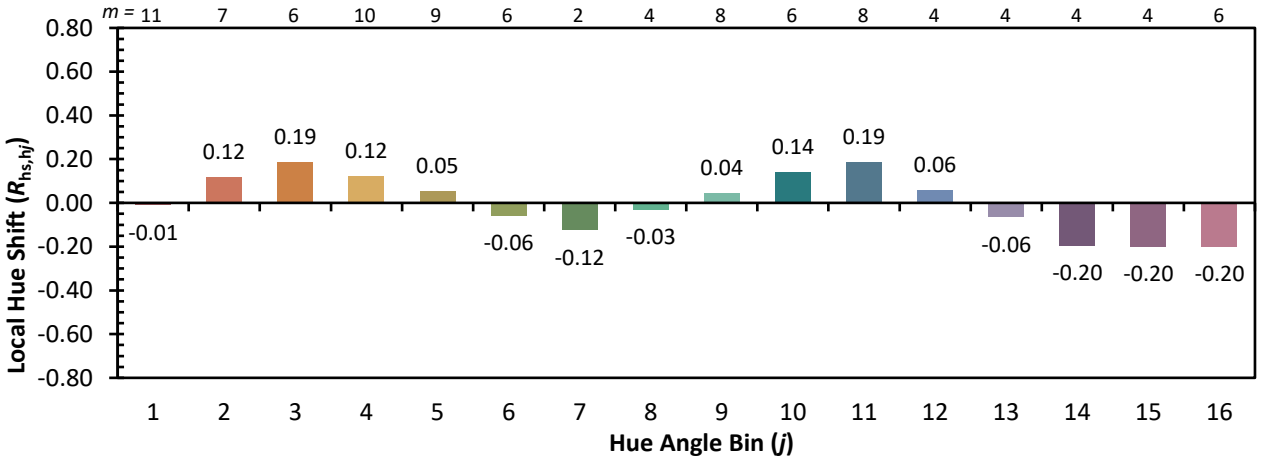


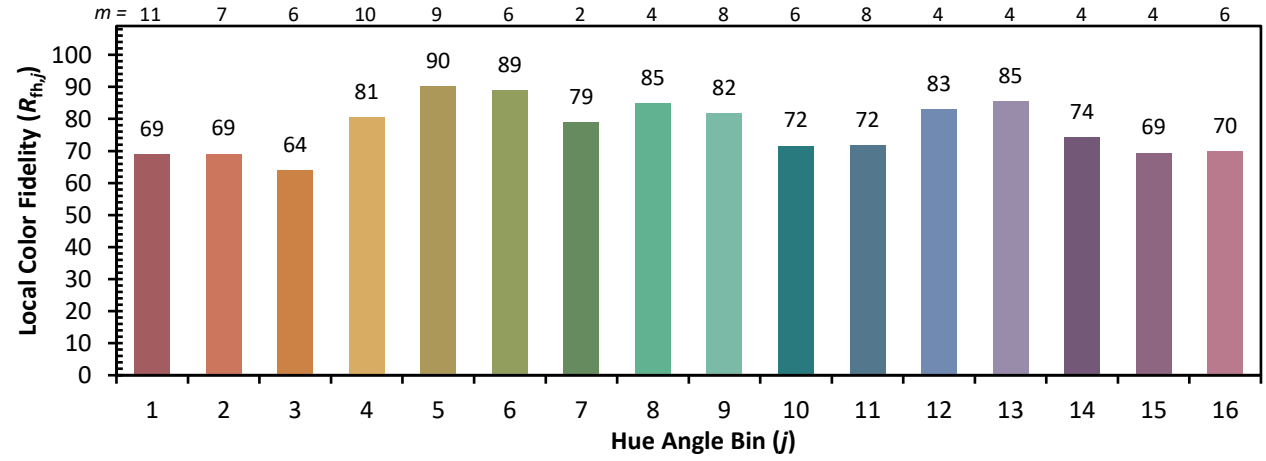
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Color Rendition by Hue-Angle Bin



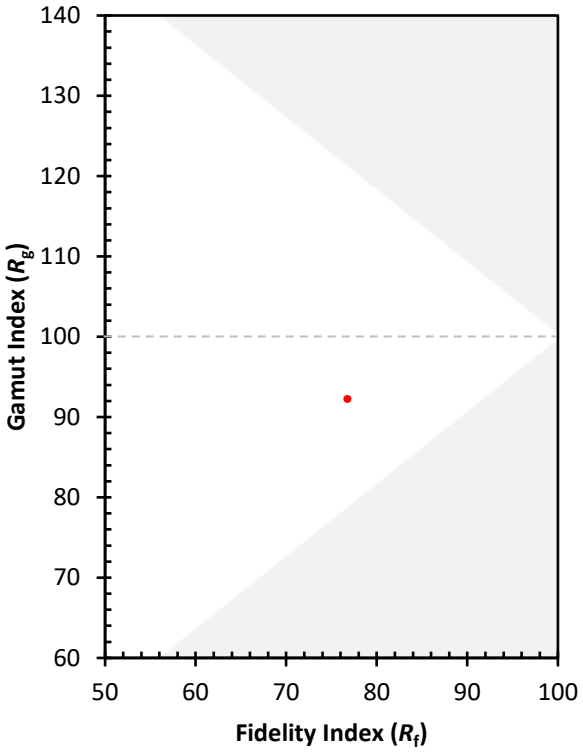


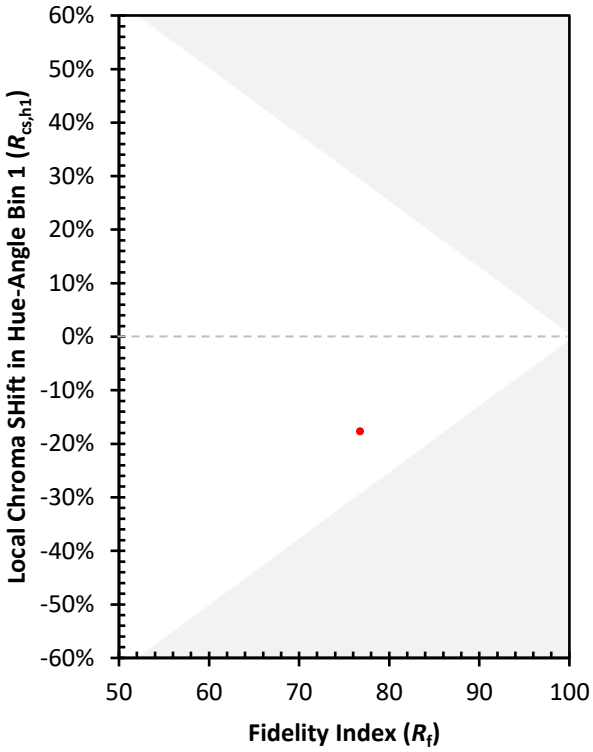


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Measure Comparisons





(END OF REPORT)