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: P981474

Luminaire Tested: **FFX-CLB-50-730-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:	P981474
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-730-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:	7617.3 lumens
Efficiency:	N/A
Efficacy:	150.5 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):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

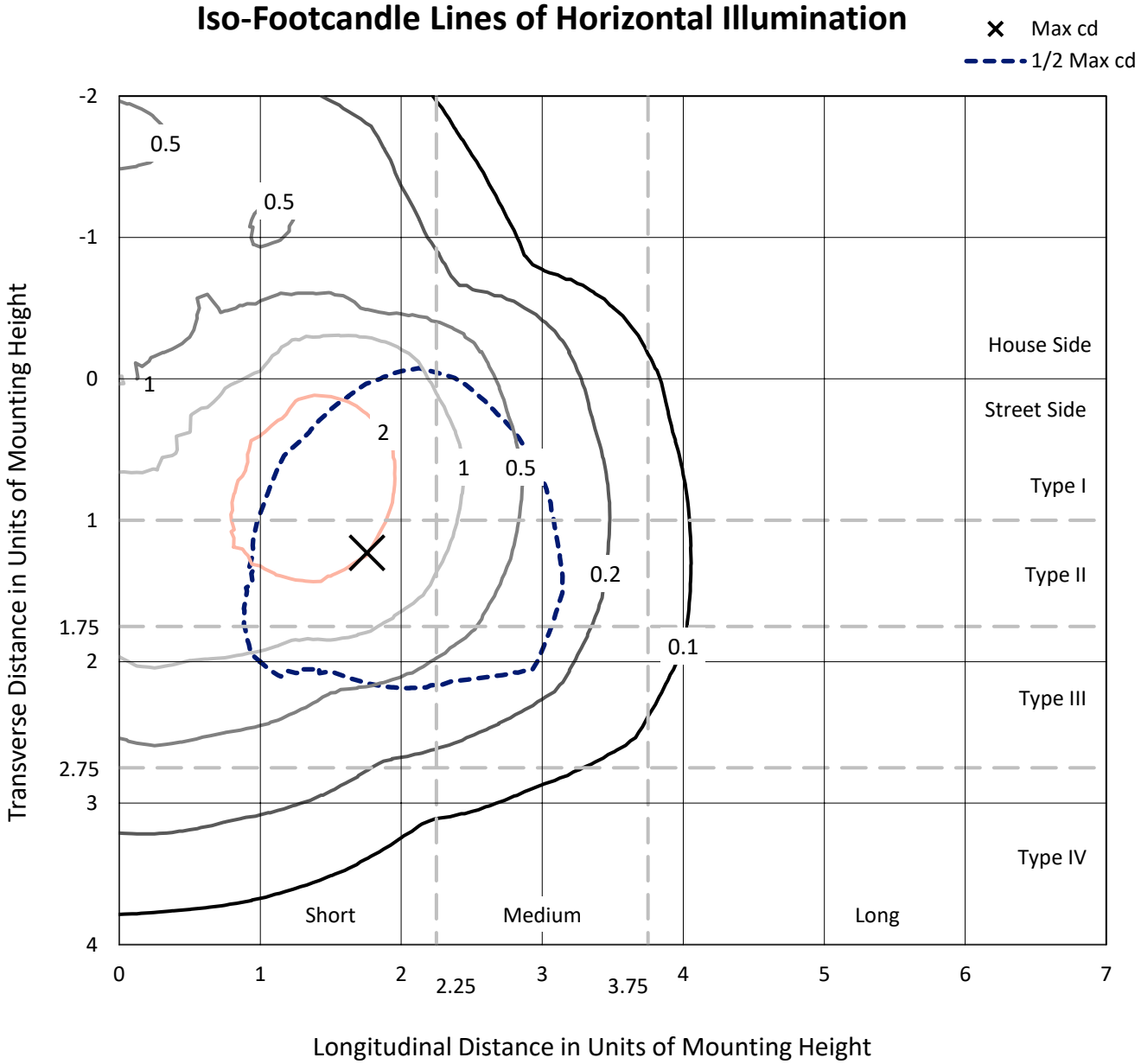


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Iso-Footcandle Lines of Horizontal Illumination



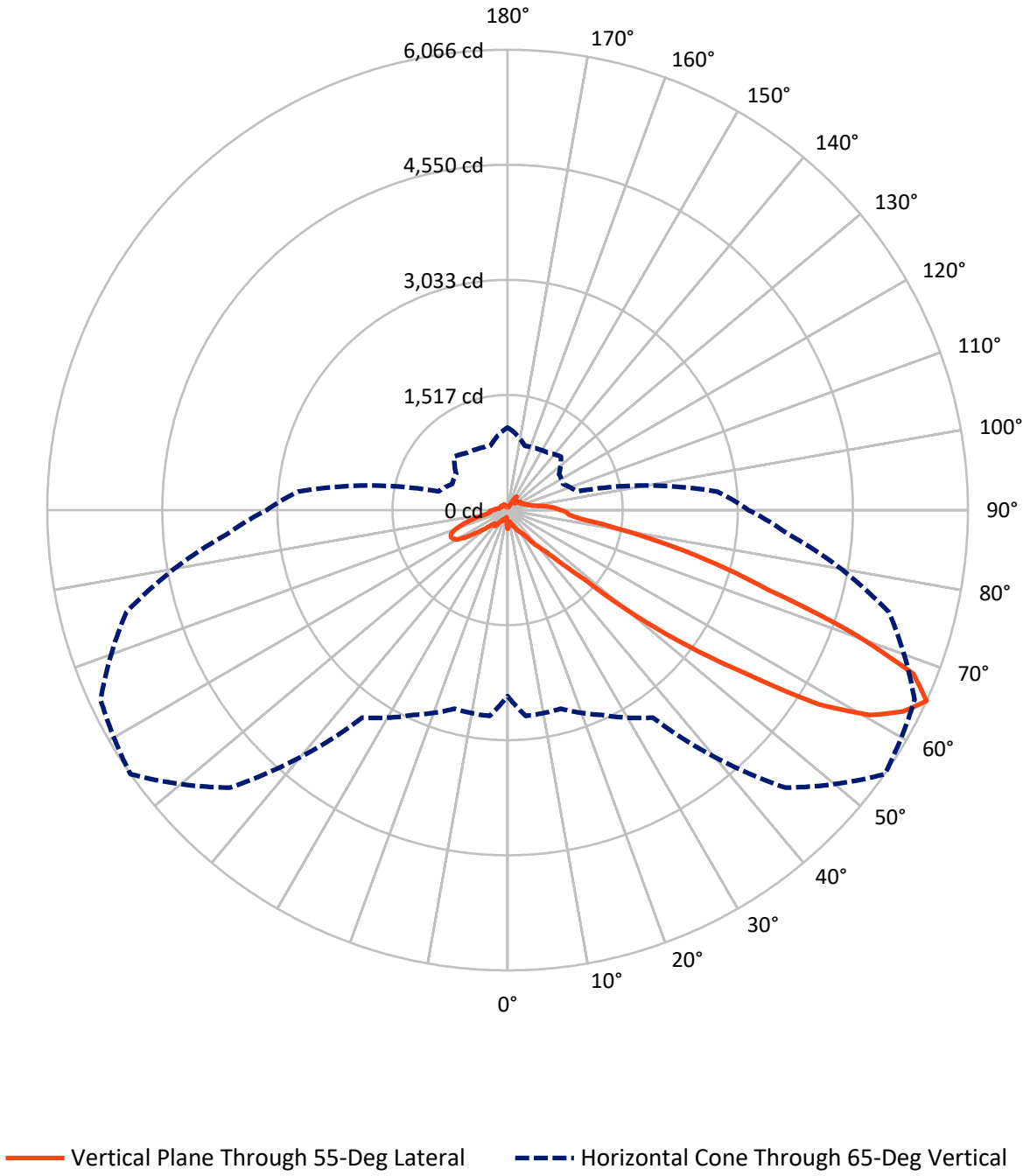
Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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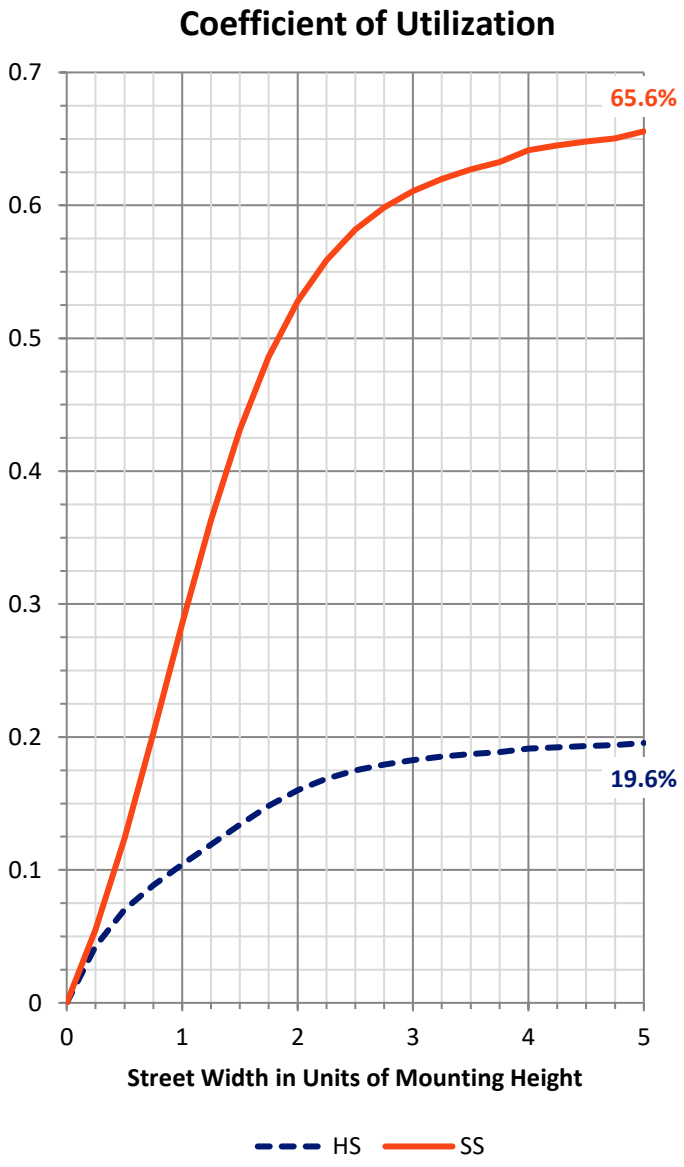
REPORT NUMBER: P981474
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1547.5	302.0	1849.4
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	5163.6	604.3	5767.9
	% Fixture	67.8	7.9	75.7
Total	Lumens	6711.1	906.2	7617.3
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	0.2
10°-20°	46.6	0.6
20°-30°	95.2	1.3
30°-40°	206.5	2.7
40°-50°	501.1	6.6
50°-60°	1564.5	20.5
60°-70°	2486.0	32.6
70°-80°	1324.8	17.4
80°-90°	472.1	6.2
90°-100°	287.2	3.8
100°-110°	170.0	2.2
110°-120°	132.7	1.7
120°-130°	110.7	1.5
130°-140°	80.9	1.1
140°-150°	74.4	1.0
150°-160°	33.6	0.4
160°-170°	12.8	0.2
170°-180°	3.8	0.0
0°-90°	6711.1	88.1
0°-180°	7617.3	100.0



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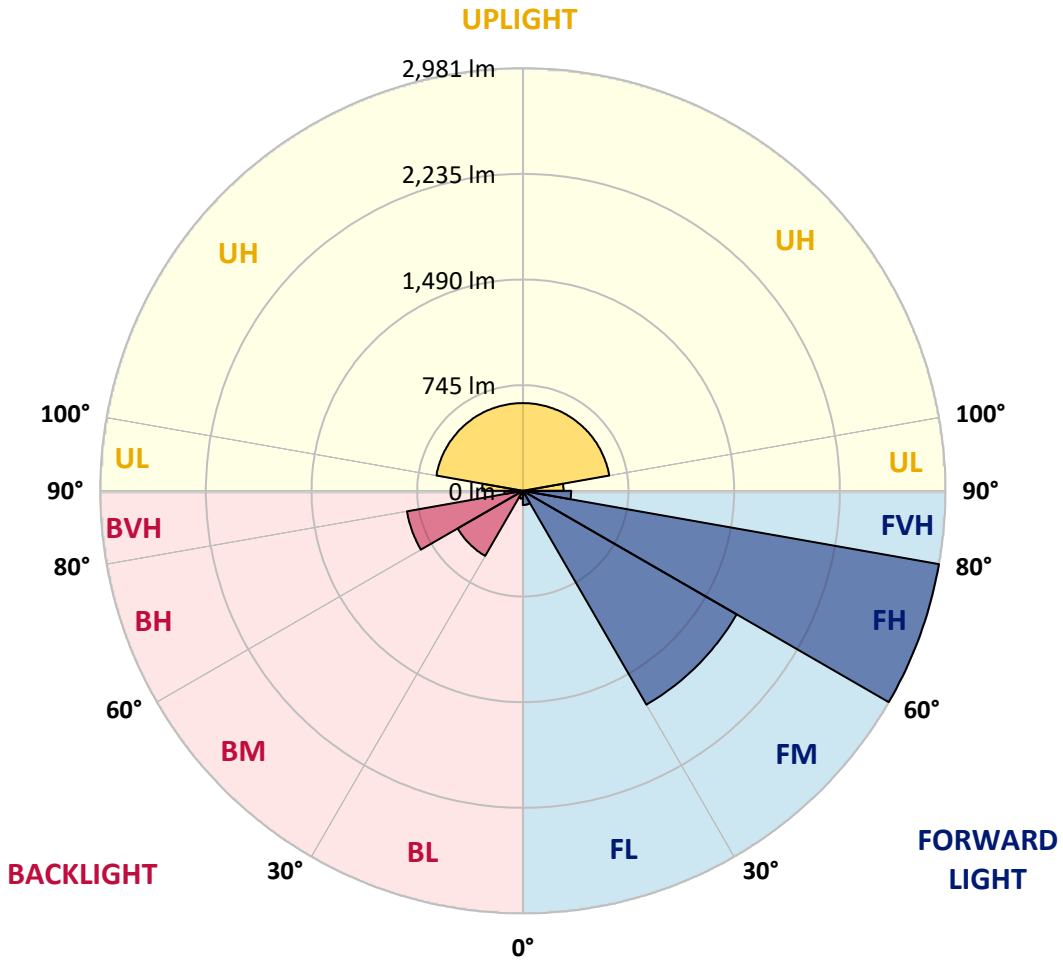
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	100.7	1.3			
FM	(30°-60°)	1741.7	22.9			
FH	(60°-80°)	2980.6	39.1			G2/5000
FVH	(80°-90°)	340.6	4.5			G3/500
BL	(0°-30°)	55.4	0.7	B0/110		
BM	(30°-60°)	530.4	7.0	B1/1000		
BH	(60°-80°)	830.2	10.9	B2/1000		G2/1000
BVH	(80°-90°)	131.4	1.7			G2/225
UL	(90°-100°)	287.2	3.8		U3/500	
UH	(100°-180°)	619.0	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°	247.1	247.1	247.1	247.1	247.1	247.1	*247.1*	247.1	247.1	247.1	247.1
2.5°	147.6	148.6	165.1	178.0	194.0	189.4	*189.4*	224.4	247.7	281.7	278.6
5°	157.9	151.2	154.3	165.6	187.3	197.6	*186.3*	147.6	122.3	132.6	145.0
7.5°	172.8	171.3	167.7	156.9	148.6	170.8	*201.7*	179.6	135.7	114.0	109.4
10°	177.0	177.5	176.5	177.5	181.6	171.8	*154.3*	140.3	136.2	134.1	132.6
12.5°	214.1	213.6	215.7	213.1	203.3	191.4	*195.0*	184.7	164.6	150.7	147.0
15°	249.7	248.7	248.2	238.4	222.4	203.3	*194.0*	198.6	185.7	169.8	162.5
17.5°	264.2	264.2	253.9	239.9	230.1	216.7	*209.5*	204.3	194.5	184.2	175.4
20°	258.5	258.0	247.7	242.0	243.0	236.8	*230.6*	222.9	213.1	196.6	185.7
22.5°	255.4	255.4	251.8	250.2	259.0	256.9	*255.4*	245.6	232.7	208.4	194.5
25°	275.5	274.0	269.3	269.3	277.6	284.3	*286.9*	279.1	258.0	221.3	208.4
27.5°	295.1	294.6	288.4	290.0	295.1	308.5	*312.7*	309.1	280.2	232.2	220.8
30°	318.9	315.3	310.1	319.4	318.3	336.9	*342.6*	346.7	310.1	254.4	241.0
32.5°	344.1	342.1	338.0	349.8	353.9	371.0	*375.6*	396.3	350.9	294.1	280.2
35°	387.0	385.4	396.3	419.5	419.0	450.9	*438.6*	469.5	426.7	365.8	351.9
37.5°	579.9	571.2	558.8	536.6	535.1	579.4	*565.5*	589.7	529.4	443.7	428.2
40°	603.7	602.1	596.5	571.2	556.7	632.6	*641.9*	713.6	614.0	516.0	486.0
42.5°	589.7	591.8	667.7	683.6	654.2	747.6	*763.1*	889.0	709.4	625.9	571.2
45°	711.0	714.1	738.9	750.2	748.1	982.9	*1021.1*	1175.4	876.6	780.1	679.0
47.5°	814.2	803.4	848.2	934.9	994.3	1259.5	*1382.3*	1619.1	1177.9	1035.5	848.2
50°	1118.6	1116.0	1224.4	1319.3	1378.1	1812.1	*2190.3*	2450.3	1726.4	1501.4	1183.6
52.5°	1325.0	1412.7	1516.4	1736.2	1789.4	2465.8	*2977.6*	3186.1	2385.8	1972.0	1616.0
55°	1534.5	1660.9	1777.0	2119.1	2295.5	3203.6	*3786.1*	3843.4	3133.4	2397.7	2039.1
57.5°	1924.0	2137.1	2211.9	2484.9	2742.8	4053.9	*4826.3*	4765.4	3904.3	2891.4	2511.7
60°	2276.4	2532.9	2511.2	2778.4	3110.2	4746.8	*5486.7*	5422.7	4609.6	3330.0	2874.9
62.5°	2394.6	2653.1	2623.7	2914.7	3338.8	5118.3	*5846.9*	5737.5	5071.4	3611.2	3076.2
65°	*2449.8*	*2724.3*	*2709.8*	*2981.2*	*3338.8*	*5172.0*	*6066.1*	*5916.5*	*5200.4*	*3719.6*	*3173.2*
67.5°	2401.3	2666.0	2675.3	2916.2	3142.2	4784.5	*5766.9*	5563.6	4877.4	3459.5	2999.8
70°	2098.9	2284.2	2260.9	2479.2	2501.4	3830.0	*4786.1*	4564.7	3962.6	2884.7	2482.3
72.5°	1734.1	1779.0	1759.9	1897.7	1923.5	2805.3	*3577.2*	3451.8	2959.0	2146.4	1896.7
75°	1382.8	1375.6	1414.8	1446.8	1419.9	2059.2	*2832.6*	2690.2	2189.2	1616.5	1459.7
77.5°	956.6	901.4	1004.6	1014.4	972.1	1369.4	*2089.6*	2035.5	1569.0	1191.4	1075.8
80°	537.6	543.8	617.6	661.5	646.0	871.5	*1454.0*	1418.4	1071.7	832.8	739.9
82.5°	414.8	433.4	468.0	501.0	479.3	666.6	*983.4*	986.0	783.7	608.3	555.7
85°	456.1	465.9	470.6	471.6	454.6	619.7	*815.2*	804.4	665.6	509.3	492.7
87.5°	444.8	455.1	456.6	457.1	442.2	590.3	*771.9*	754.9	634.6	489.1	463.8
90°	381.3	398.8	400.9	414.3	396.8	527.3	*679.5*	662.5	572.2	441.1	417.4
92.5°	327.6	336.9	346.7	362.7	344.1	459.2	*608.3*	587.2	512.3	398.8	366.3
95°	299.8	304.9	313.2	319.4	297.7	390.1	*508.7*	486.6	415.9	320.9	292.0
97.5°	241.0	245.6	249.2	256.9	242.0	309.1	*394.7*	374.1	326.1	255.4	233.7
100°	205.9	209.0	213.1	218.3	205.9	259.0	*324.0*	314.7	271.4	215.7	201.7
102.5°	188.3	190.9	198.1	198.1	190.4	236.8	*289.5*	282.2	244.0	195.5	186.3
105°	181.6	182.1	188.3	185.7	180.6	220.8	*269.8*	260.6	228.6	185.7	174.9
107.5°	172.8	173.4	181.1	177.0	172.8	204.8	*244.6*	240.4	211.5	173.4	164.1
110°	164.1	165.6	175.4	171.8	169.2	192.5	*229.1*	221.3	202.3	167.7	159.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	157.4	158.4	167.7	165.1	163.0	184.2	*212.6*	212.6	197.6	167.7	157.4
115°	151.7	153.8	161.5	156.3	152.7	173.4	*196.1*	197.1	184.7	159.9	149.6
117.5°	141.9	146.5	150.7	152.7	148.6	166.1	*186.3*	185.2	178.5	154.3	147.0
120°	161.5	157.9	161.0	164.6	157.9	171.8	*188.8*	188.8	182.1	151.7	145.5
122.5°	168.7	163.6	166.7	163.0	162.5	180.6	*201.7*	203.3	189.4	156.3	140.9
125°	149.6	147.6	144.0	142.9	147.0	164.1	*183.2*	189.9	174.9	149.6	131.6
127.5°	128.0	125.4	120.7	123.3	131.1	148.1	*157.9*	161.5	155.3	138.8	125.4
130°	118.2	117.6	121.3	125.9	132.1	146.5	*149.6*	154.8	154.8	135.2	127.4
132.5°	107.8	108.4	119.7	135.7	140.3	143.4	*136.7*	146.5	151.2	137.8	129.0
135°	106.3	106.8	113.0	125.9	126.4	128.5	*129.0*	141.4	144.5	131.6	121.8
137.5°	116.1	116.1	111.4	114.0	119.7	135.2	*140.3*	150.1	147.6	124.3	109.9
140°	128.0	125.4	110.9	111.4	121.3	140.3	*147.0*	153.2	150.1	121.8	104.7
142.5°	105.8	106.8	109.4	119.2	130.5	173.9	*168.2*	183.7	177.5	129.0	102.2
145°	165.1	165.6	162.5	166.7	173.9	231.2	*213.6*	238.4	245.6	168.7	121.3
147.5°	180.6	182.7	177.0	173.4	194.0	211.5	*191.9*	212.6	226.5	177.0	130.0
150°	140.9	140.3	136.7	141.9	155.8	154.8	*144.5*	151.7	157.4	135.2	111.4
152.5°	100.1	98.5	96.5	97.0	113.5	109.4	*106.3*	112.5	112.5	103.7	89.3
155°	83.1	83.1	82.0	84.6	93.9	86.7	*84.1*	83.1	82.0	79.5	73.8
157.5°	70.2	71.7	70.2	73.3	79.5	72.8	*71.2*	69.7	70.2	70.2	68.6
160°	58.3	58.3	57.3	62.4	64.5	59.3	*56.8*	55.7	55.7	58.8	58.8
162.5°	49.0	49.0	49.5	51.6	53.1	49.5	*48.0*	48.0	49.5	54.2	54.2
165°	42.3	42.3	42.8	44.4	45.4	43.3	*42.3*	42.8	47.0	51.1	51.1
167.5°	38.7	38.7	38.7	39.2	39.7	38.7	*38.7*	40.8	44.4	47.0	47.0
170°	36.6	36.6	36.1	36.6	36.6	36.6	*38.7*	40.8	42.3	42.3	42.3
172.5°	37.1	37.1	36.6	37.1	37.1	36.6	*39.2*	41.8	40.8	40.2	40.2
175°	38.2	38.2	38.2	38.7	38.7	37.7	*37.1*	38.2	39.2	39.2	38.7
177.5°	38.2	38.2	37.7	38.2	37.7	36.6	*36.1*	35.6	35.6	35.1	35.1
180°	35.6	35.6	35.6	35.6	35.6	35.6	*35.6*	35.6	35.6	35.6	35.6

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1
2.5°	252.3	217.7	191.9	212.1	256.4	278.6	256.4	195.0	137.2	120.2
5°	151.2	147.0	132.6	129.5	135.2	130.0	144.5	136.7	108.4	109.4
7.5°	113.0	136.7	132.1	94.4	88.2	82.6	87.2	99.6	102.7	96.0
10°	131.1	118.2	103.2	96.0	104.7	113.0	107.3	93.4	80.5	76.9
12.5°	144.5	143.4	145.0	130.0	106.8	98.5	95.5	102.7	124.9	130.0
15°	155.3	143.4	132.6	129.5	114.0	105.8	101.6	99.6	95.5	92.4
17.5°	166.1	146.5	134.7	122.8	115.1	107.3	98.5	93.9	93.4	93.9
20°	173.4	155.3	141.4	128.0	118.2	107.8	99.1	94.9	94.9	94.9
22.5°	182.1	164.6	149.6	132.6	121.3	109.9	102.7	98.5	98.0	98.0
25°	196.6	177.0	159.4	140.9	128.5	118.2	108.4	103.2	101.6	101.1
27.5°	213.1	191.4	170.3	151.2	138.3	126.9	114.0	106.3	104.2	103.7
30°	234.2	209.5	182.7	162.5	146.5	135.7	120.2	110.9	106.8	106.3
32.5°	268.8	236.3	201.2	179.0	159.9	145.5	128.5	117.1	110.4	108.9
35°	335.4	295.6	243.0	211.0	180.6	157.9	135.7	120.7	114.0	113.0
37.5°	409.7	349.3	298.2	261.1	223.9	185.7	147.0	126.4	118.2	116.6
40°	441.7	384.4	330.2	271.9	263.7	233.7	180.6	140.3	123.8	121.3
42.5°	511.8	430.3	357.0	240.4	259.5	258.0	222.9	171.8	139.3	133.1
45°	602.6	489.6	397.3	256.9	261.6	252.3	228.6	198.6	169.2	162.5
47.5°	750.7	547.4	410.2	288.9	294.1	271.9	239.4	209.5	188.3	185.7
50°	1072.2	717.2	457.7	349.8	366.3	315.3	275.0	249.2	223.9	219.3
52.5°	1457.6	849.8	506.7	436.5	495.8	422.6	361.7	314.2	312.7	306.5
55°	1863.6	900.9	571.7	532.0	624.3	560.8	501.5	458.2	480.4	482.4
57.5°	2319.8	955.6	665.6	656.8	780.1	679.0	629.0	640.8	798.2	859.6
60°	2623.7	1000.4	746.6	760.0	922.5	824.0	786.3	812.6	1079.9	1191.9
62.5°	2758.8	977.7	786.3	809.5	983.9	912.2	906.0	920.0	1146.5	1251.2
65°	*2777.4*	*944.2*	*808.0*	*828.1*	*994.8*	*921.5*	*895.2*	*875.6*	*1026.2*	*1087.6*
67.5°	2549.4	873.0	791.0	812.1	945.8	858.0	792.5	748.1	835.3	841.5
70°	2074.7	779.6	733.2	740.9	808.0	718.2	656.3	618.1	638.2	630.0
72.5°	1608.8	687.3	653.2	635.1	655.3	578.4	505.1	485.5	504.6	495.8
75°	1222.3	614.0	576.3	515.4	548.5	445.3	363.8	346.2	354.5	342.6
77.5°	898.8	494.8	450.9	381.3	426.7	323.0	245.6	227.5	230.6	219.3
80°	655.8	365.8	329.7	273.5	307.5	229.6	177.5	174.4	173.9	166.7
82.5°	506.7	290.5	263.7	235.3	241.0	202.8	168.2	163.0	163.0	152.2
85°	470.0	281.2	253.9	233.7	235.3	196.6	159.9	156.9	158.4	147.0
87.5°	439.1	275.0	252.8	228.6	216.7	178.0	144.0	147.6	148.6	138.8
90°	376.7	244.6	224.4	201.2	187.3	151.2	129.0	135.7	136.7	128.0
92.5°	330.2	210.0	193.0	174.9	168.7	141.9	123.8	129.0	129.0	121.3
95°	263.1	171.8	164.1	155.3	153.8	132.6	115.6	118.2	117.1	110.4
97.5°	214.1	149.1	142.4	134.1	129.0	113.5	101.6	104.2	104.7	100.1
100°	188.3	137.8	128.5	119.2	114.0	102.2	92.9	97.5	100.6	96.5
102.5°	175.9	131.6	121.3	111.4	107.3	96.5	87.7	91.8	96.0	92.4
105°	167.2	126.9	116.1	107.3	102.2	91.3	82.6	83.6	88.7	86.7
107.5°	155.8	126.9	113.0	104.2	98.0	88.2	77.9	76.9	80.0	79.5
110°	151.7	126.9	110.9	102.2	95.5	86.7	77.4	73.3	74.8	74.8

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

Scaled Data Report

REPORT NUMBER: P981474
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	148.1	125.9	108.9	98.5	92.9	85.6	76.4	70.2	71.7	72.8
115°	139.8	116.1	102.7	91.8	86.2	78.4	72.2	67.6	68.1	69.1
117.5°	135.2	107.3	99.6	89.8	85.6	81.0	75.3	66.6	66.6	67.6
120°	135.2	105.8	102.2	98.5	96.5	88.7	79.5	66.6	65.0	65.0
122.5°	133.1	117.6	111.4	103.2	97.5	87.2	75.8	65.0	64.0	64.0
125°	122.3	112.5	102.7	92.9	86.2	77.9	71.2	65.5	63.5	63.5
127.5°	116.6	101.1	91.8	84.1	79.5	75.3	71.2	65.5	62.9	62.4
130°	118.2	102.2	90.3	84.1	80.5	76.4	71.7	64.5	60.4	59.9
132.5°	119.2	98.5	87.2	82.0	79.5	76.4	70.2	60.9	56.2	56.2
135°	107.8	88.7	83.6	80.0	78.4	75.8	66.6	57.8	54.2	53.7
137.5°	98.0	86.2	82.6	78.9	76.4	72.8	65.5	56.8	52.1	51.6
140°	93.9	84.1	78.9	72.2	69.1	61.9	56.8	51.6	50.0	49.5
142.5°	89.3	78.9	72.8	67.1	65.5	62.9	59.9	51.6	46.4	46.4
145°	106.8	94.9	87.7	82.0	74.8	69.7	59.9	49.5	42.8	41.8
147.5°	112.0	101.1	93.9	86.2	72.8	61.4	50.6	43.3	40.8	39.7
150°	98.0	88.7	81.0	72.8	60.9	53.1	45.9	41.3	40.2	40.2
152.5°	77.9	72.8	64.5	58.8	51.1	46.4	42.3	39.7	38.7	38.7
155°	64.5	60.4	55.7	51.1	47.0	43.9	41.3	39.2	38.2	38.2
157.5°	62.4	56.2	52.1	48.0	45.4	42.3	40.2	38.2	37.7	37.1
160°	56.8	49.5	45.9	43.3	42.8	41.8	40.2	38.7	38.2	37.7
162.5°	52.6	45.4	42.8	41.3	42.8	43.9	42.8	40.8	39.2	38.7
165°	49.5	42.8	40.8	40.8	43.9	45.4	42.8	40.8	40.8	40.2
167.5°	45.9	43.9	41.3	40.8	43.3	46.4	47.0	43.3	41.8	41.3
170°	42.8	43.3	43.3	41.8	42.3	44.9	45.9	44.9	42.8	42.3
172.5°	40.8	41.8	43.9	42.8	42.8	43.9	44.9	43.9	42.3	41.8
175°	38.7	39.2	38.2	38.7	40.2	41.8	41.3	40.8	40.2	40.2
177.5°	35.1	35.1	35.6	35.6	36.1	37.7	38.2	38.2	39.2	39.2
180°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6

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

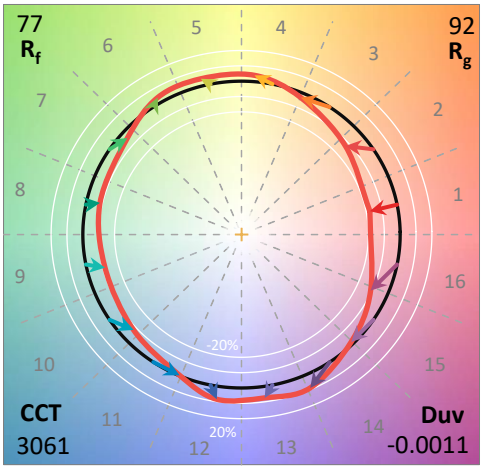
Test Information

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

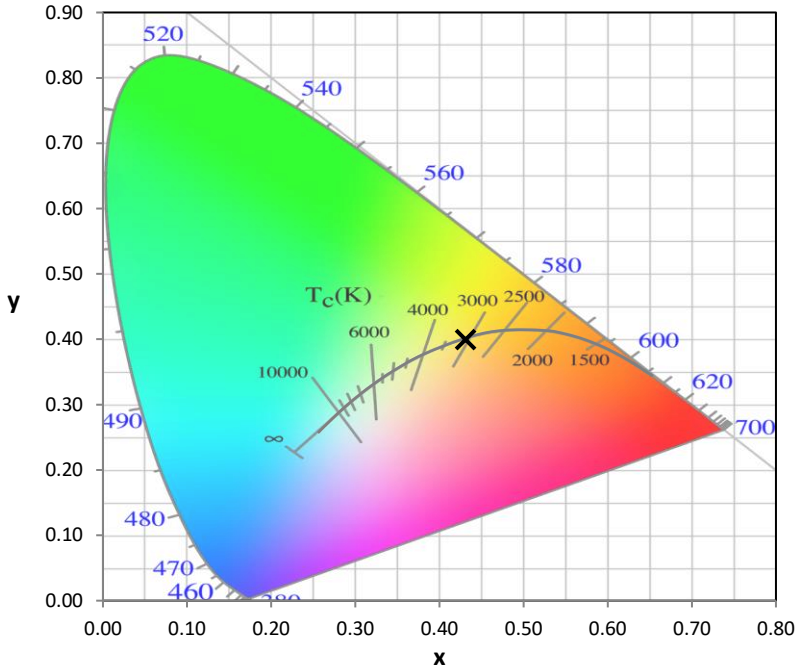
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

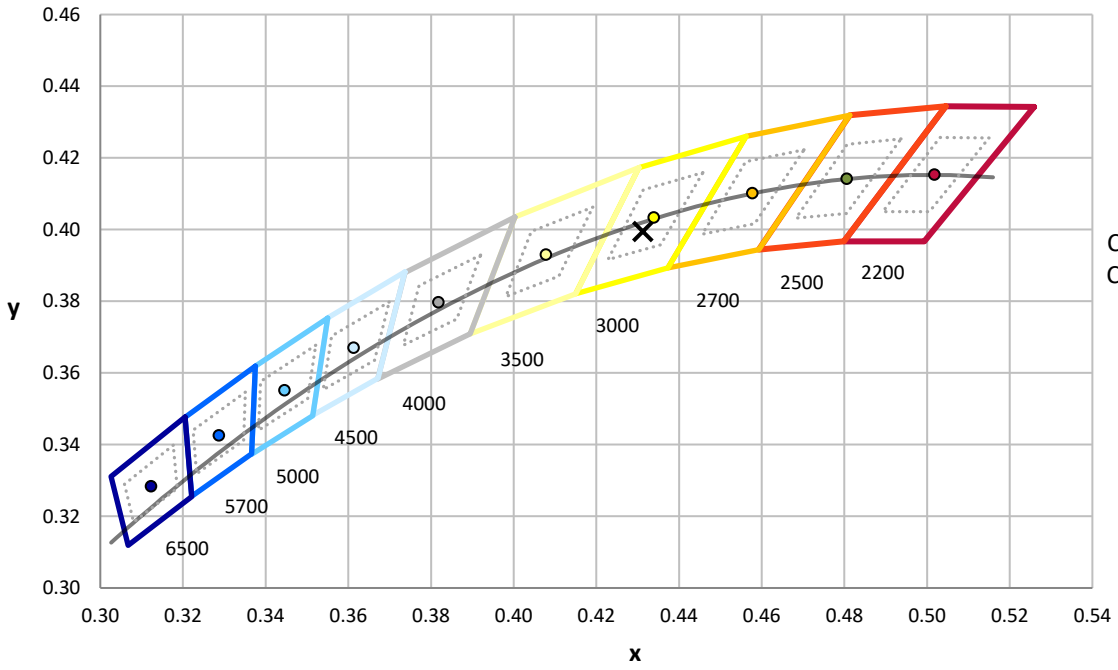
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

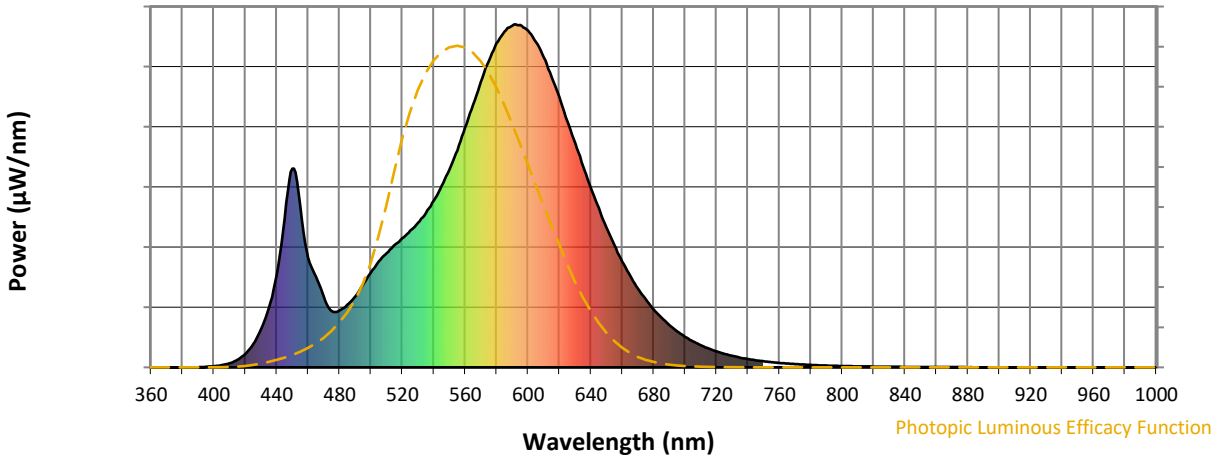


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

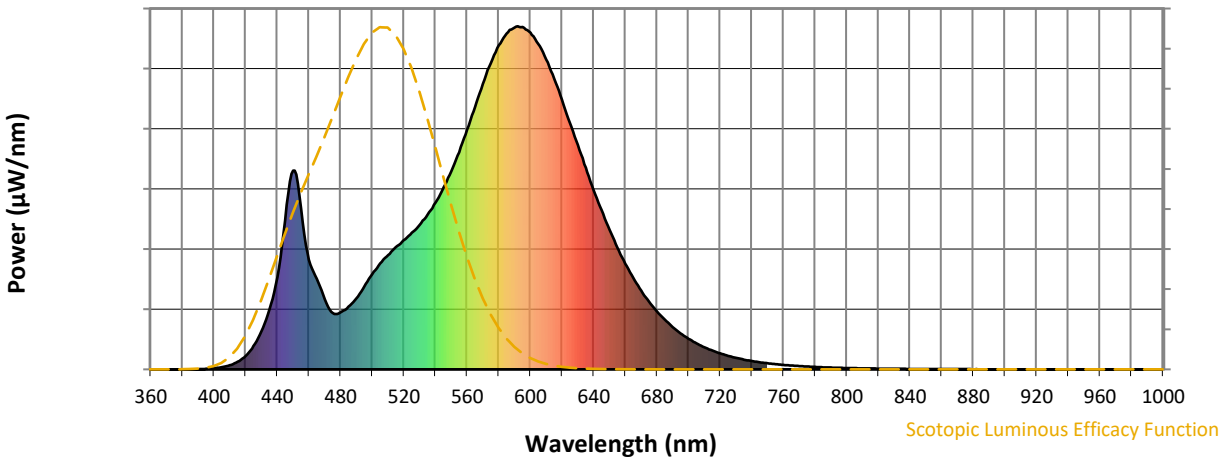


Photopic Lumens: NR

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

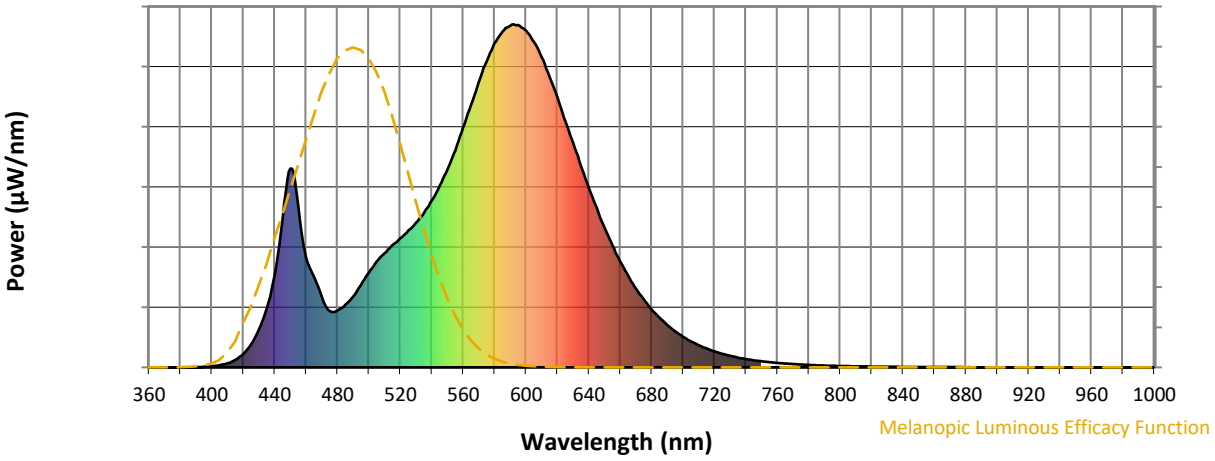


Scotopic Lumens: NR **S/P: 1.29**

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			

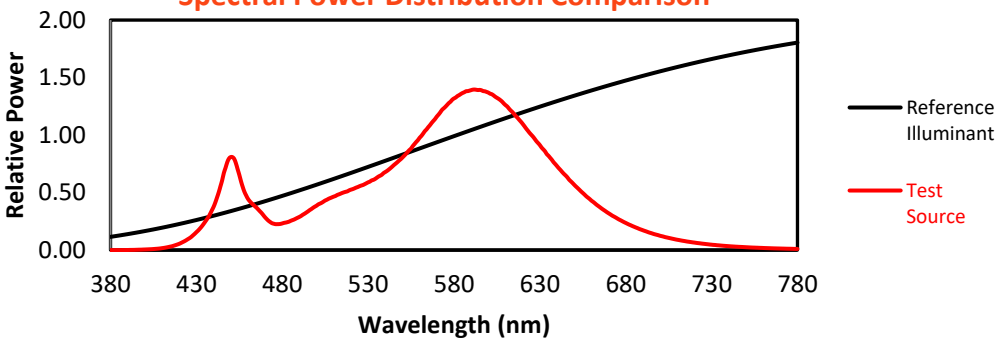
REPORT NUMBER: SP1-2501-332-4

TM-30-18

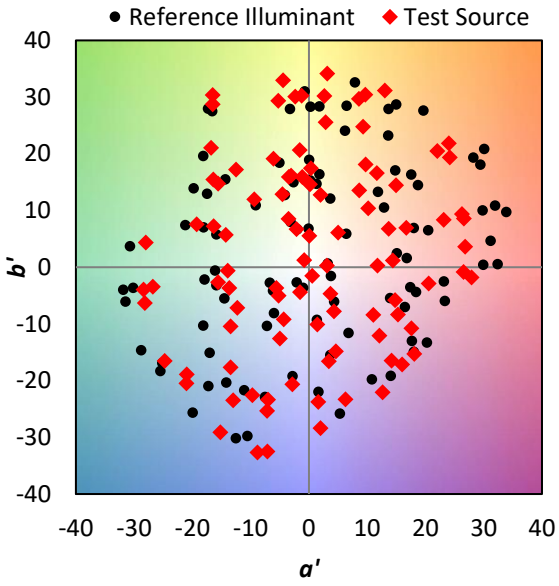
Summary

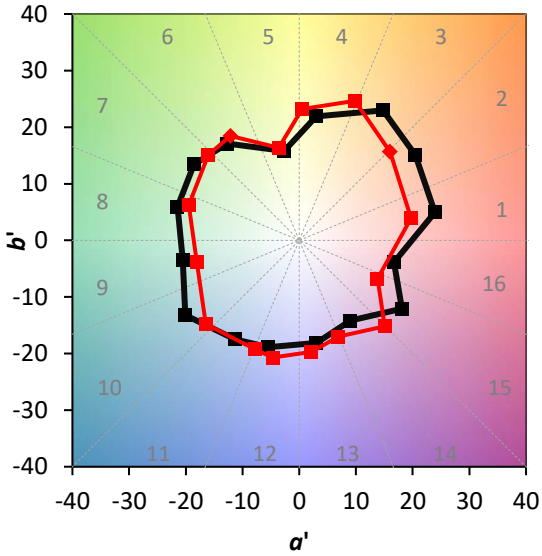
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

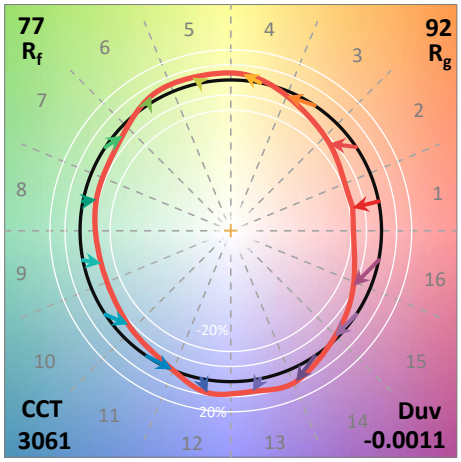
Spectral Power Distribution Comparison

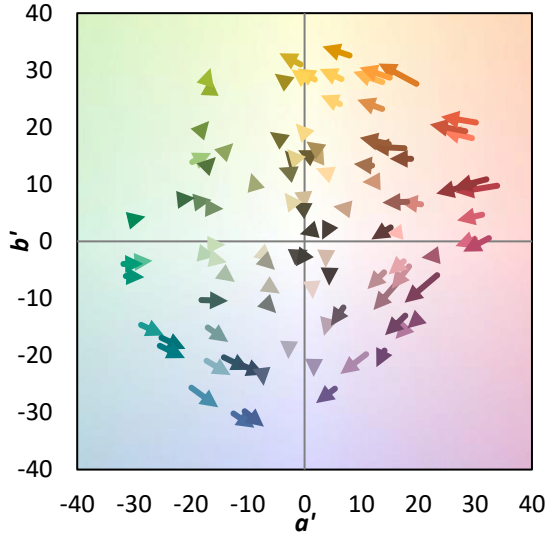


Color Vector Graphics







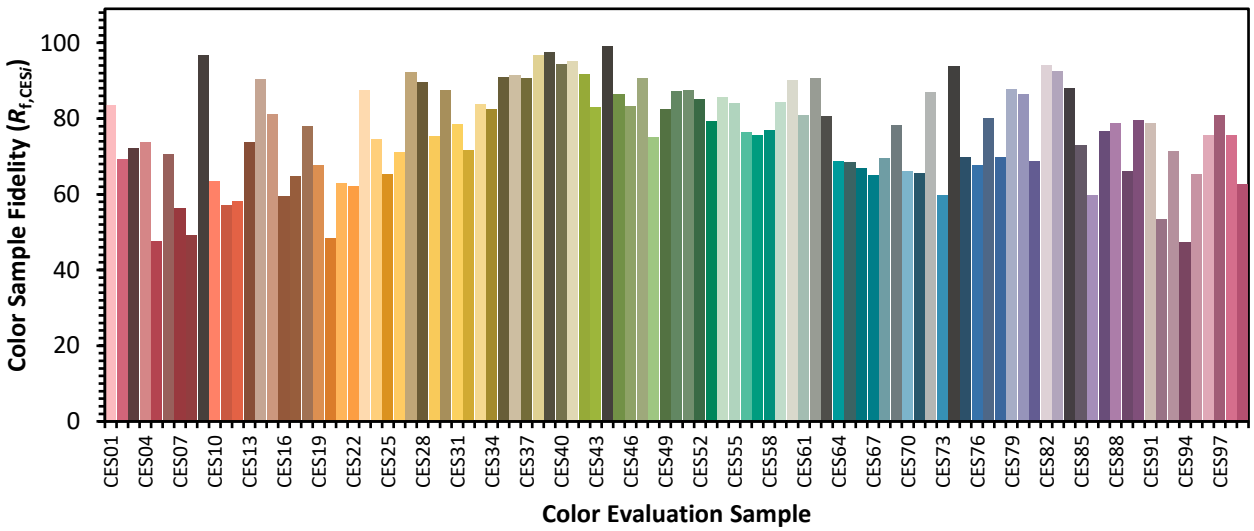


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

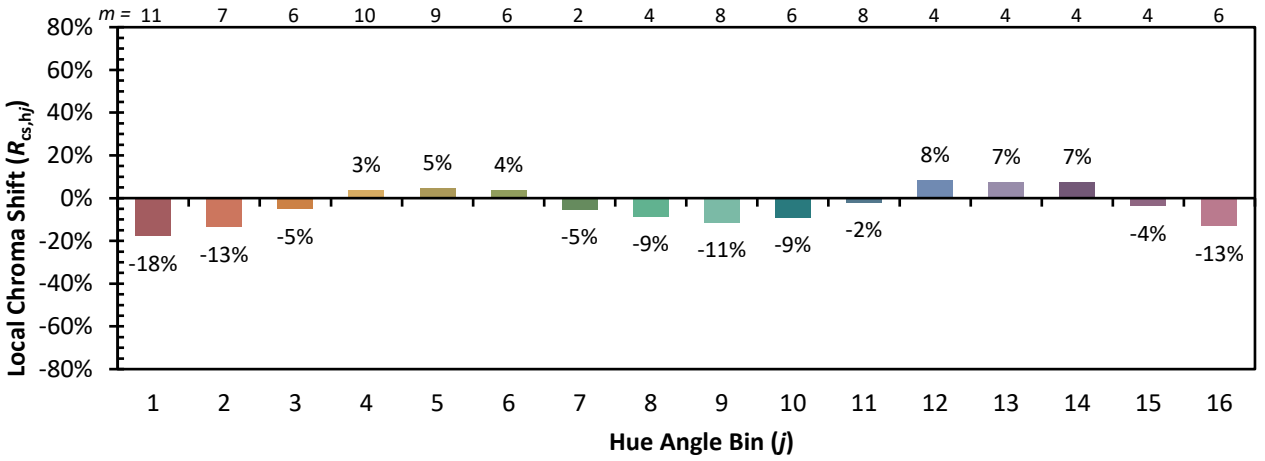
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

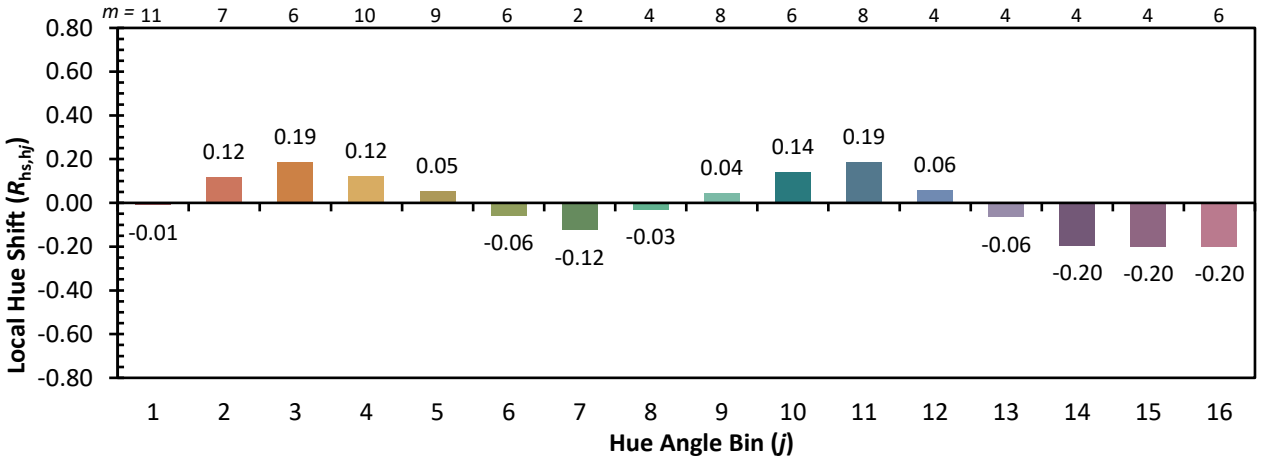


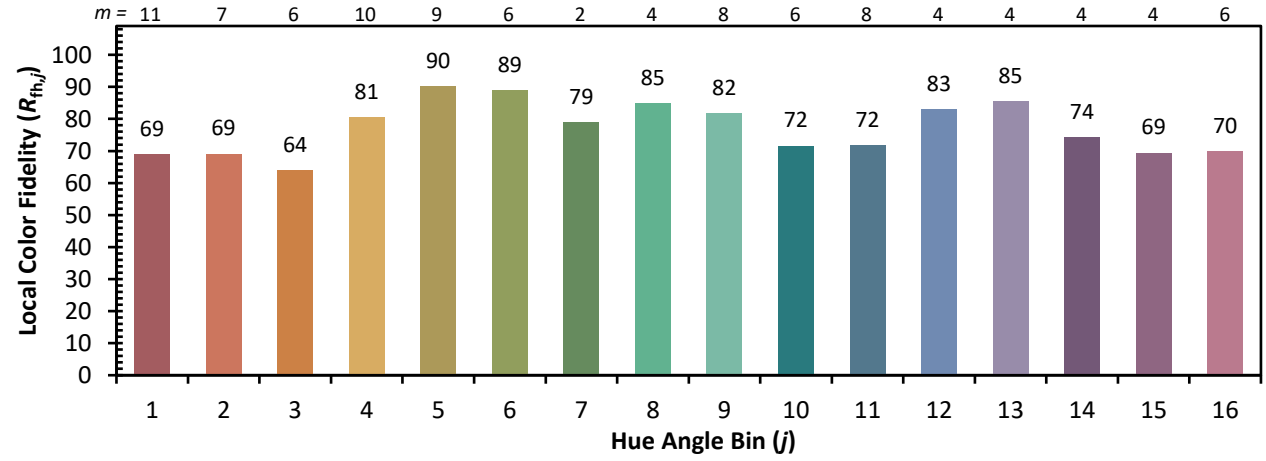
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Color Rendition by Hue-Angle Bin



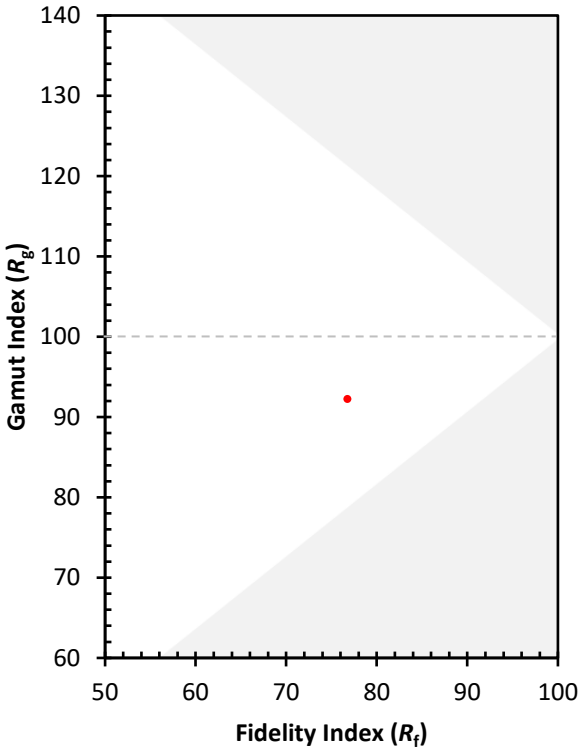


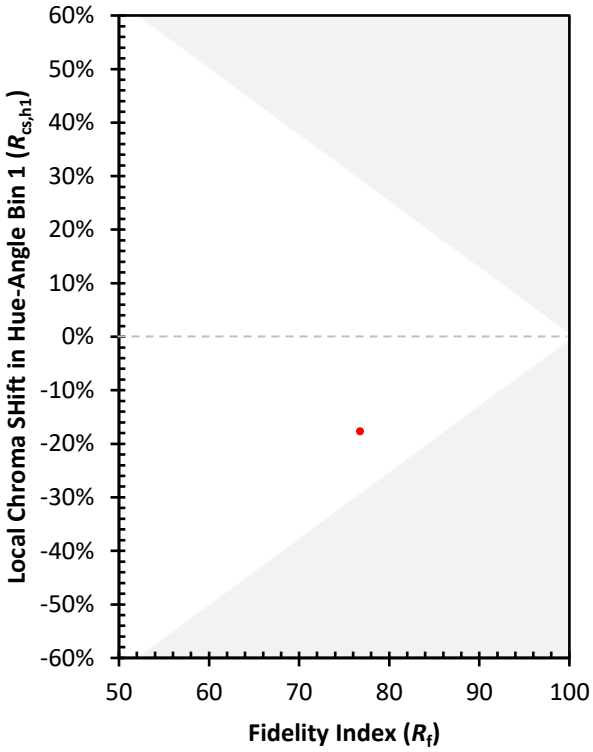


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Measure Comparisons





(END OF REPORT)