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: P1046189

Luminaire Tested: **FFX-CLB-30-722-U-FR-T4-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046189
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-722-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3762.8 lumens
Efficiency:	N/A
Efficacy:	123.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G2

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

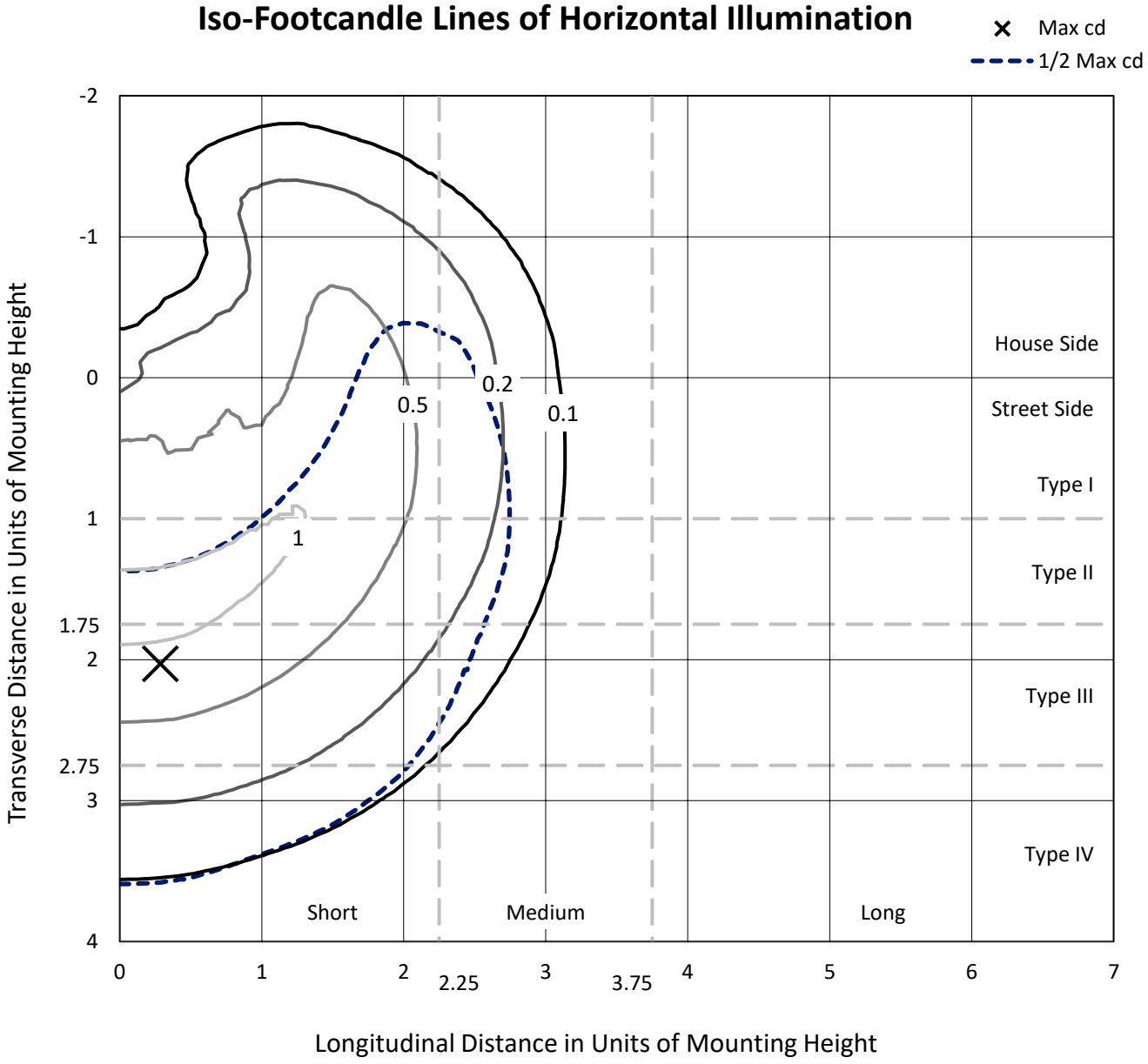


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Iso-Footcandle Lines of Horizontal Illumination



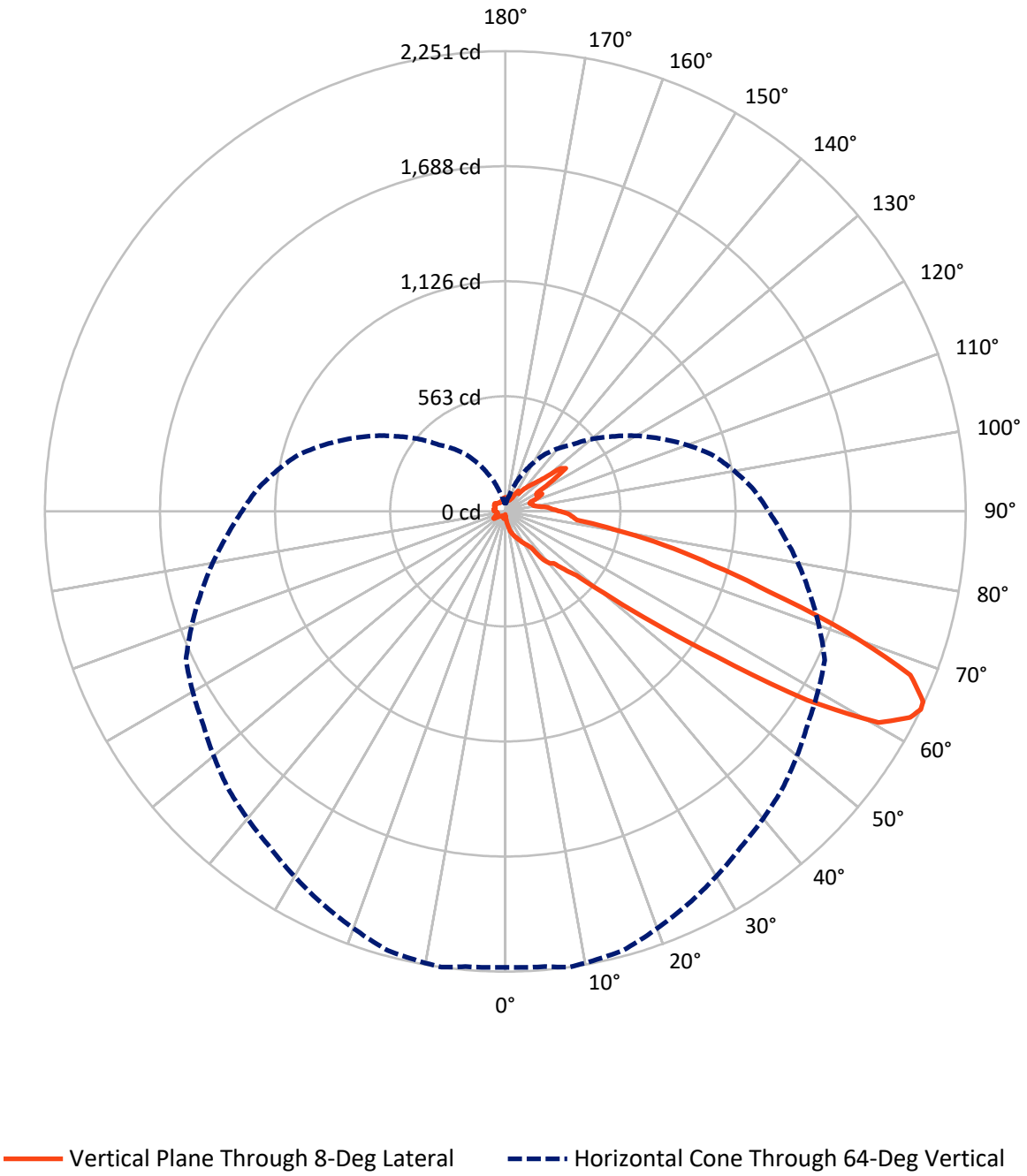
Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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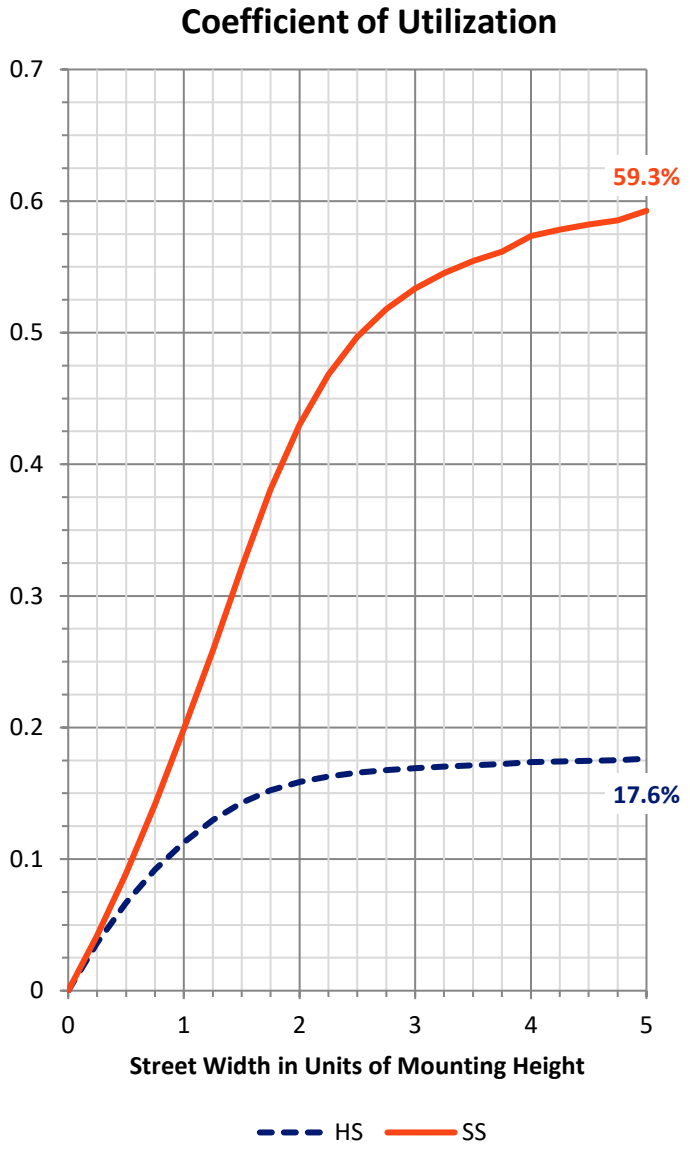
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	688.2	257.1	945.2
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	2325.4	492.2	2817.6
	% Fixture	61.8	13.1	74.9
Total	Lumens	3013.6	749.3	3762.8
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.1
10°-20°	20.7	0.6
20°-30°	45.0	1.2
30°-40°	89.9	2.4
40°-50°	194.6	5.2
50°-60°	674.5	17.9
60°-70°	1134.6	30.2
70°-80°	617.0	16.4
80°-90°	233.5	6.2
90°-100°	147.4	3.9
100°-110°	99.4	2.6
110°-120°	107.6	2.9
120°-130°	177.0	4.7
130°-140°	109.0	2.9
140°-150°	57.0	1.5
150°-160°	29.7	0.8
160°-170°	16.1	0.4
170°-180°	6.1	0.2
0°-90°	3013.6	80.1
0°-180°	3762.8	100.0



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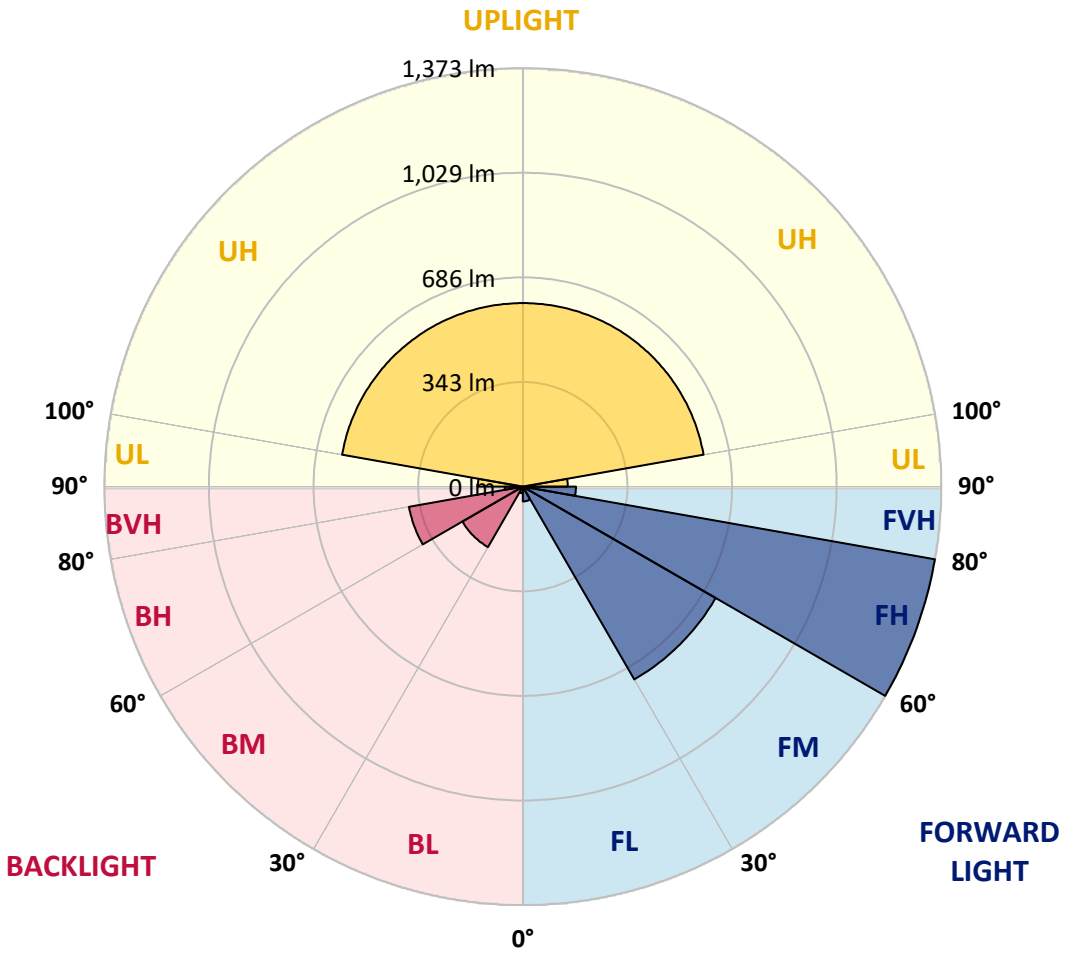
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	48.4	1.3			
FM	(30°-60°)	730.2	19.4			
FH	(60°-80°)	1372.5	36.5			G1/1800
FVH	(80°-90°)	174.2	4.6			G2/225
BL	(0°-30°)	21.1	0.6	B0/110		
BM	(30°-60°)	228.7	6.1	B1/1000		
BH	(60°-80°)	379.0	10.1	B1/500		G1/500
BVH	(80°-90°)	59.3	1.6			G1/100
UL	(90°-100°)	147.4	3.9		U3/500	
UH	(100°-180°)	601.9	16.0		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
2.5°	26.3	26.3	26.3	27.1	27.6	27.8	27.1	26.5	26.3	26.0	25.2
5°	37.7	38.0	38.0	38.8	38.2	38.8	37.7	36.9	35.6	34.1	32.8
7.5°	53.3	53.3	53.1	53.3	53.1	52.0	52.0	52.8	50.7	47.6	44.7
10°	72.3	72.8	72.6	71.5	70.0	68.7	68.7	69.7	66.6	61.1	57.0
12.5°	91.6	92.6	91.6	91.8	89.2	88.2	86.1	85.6	81.4	76.2	68.9
15°	105.9	106.7	106.9	107.7	107.4	104.1	100.4	96.5	93.1	88.4	80.9
17.5°	117.3	117.6	118.1	117.8	116.3	112.9	108.7	104.6	99.1	94.2	87.1
20°	128.5	129.5	129.3	129.0	128.2	125.6	120.7	114.7	110.0	102.7	95.5
22.5°	139.9	139.2	139.7	139.4	139.4	136.8	131.6	124.6	118.4	111.1	104.6
25°	153.2	153.0	153.2	152.4	151.4	150.1	143.6	135.5	128.5	121.0	111.9
27.5°	167.3	167.5	167.8	166.5	165.2	163.1	153.7	145.7	138.1	128.8	116.0
30°	182.9	182.1	182.3	180.5	179.7	173.2	164.1	154.5	146.2	133.7	121.2
32.5°	197.2	195.9	195.6	194.1	192.8	183.4	174.0	164.7	154.8	142.0	131.1
35°	217.2	219.8	218.8	218.8	222.1	207.8	196.9	187.8	177.1	163.9	152.4
37.5°	298.9	298.4	295.2	291.1	279.4	269.2	264.3	250.0	232.8	218.2	200.0
40°	338.4	336.9	333.5	325.2	316.8	304.9	297.3	288.5	279.6	253.9	224.7
42.5°	347.8	346.5	347.3	357.2	368.1	359.2	329.8	297.8	282.2	264.8	250.2
45°	399.0	403.5	404.8	404.5	396.7	387.3	374.6	355.3	328.3	303.6	273.1
47.5°	464.1	463.5	466.7	462.5	469.0	452.6	436.2	416.2	388.1	354.6	318.1
50°	634.2	628.7	629.5	631.1	621.2	609.2	594.4	583.2	528.3	480.7	425.3
52.5°	904.5	905.2	899.5	899.3	869.9	846.7	820.7	821.7	741.1	677.1	597.0
55°	1271.2	1271.8	1251.2	1268.1	1235.1	1232.0	1174.5	1100.3	991.9	904.7	824.1
57.5°	1728.0	1743.6	1741.8	1711.6	1661.2	1633.9	1541.0	1463.2	1309.7	1172.9	1063.4
60°	2117.2	2109.9	2097.9	2075.0	1923.9	1860.4	1792.0	1725.7	1598.5	1409.1	1245.2
62.5°	2228.2	2222.8	2220.7	2209.3	2089.9	1985.3	1899.2	1790.7	1705.6	1519.9	1352.9
64°	2230.1	2235.0	2251.1	2223.8	2117.7	2006.1	1916.9	1806.1	1723.3	1540.2	1365.9
65°	2225.9	2224.9	2245.2	2210.6	2116.4	2005.1	1905.9	1799.8	1717.9	1534.7	1362.5
67.5°	2114.3	2109.9	2135.9	2091.4	2009.2	1908.8	1811.5	1697.6	1625.5	1449.7	1282.9
70°	1735.0	1734.8	1775.4	1738.2	1713.7	1607.3	1508.0	1403.4	1326.4	1182.0	1042.6
72.5°	1329.5	1327.2	1354.2	1326.4	1313.9	1263.7	1170.8	1078.5	1005.1	896.9	784.0
75°	1059.5	1060.5	1046.2	1018.9	1008.8	986.4	945.0	889.9	828.5	730.2	626.1
77.5°	793.4	788.2	794.4	756.2	753.3	746.6	746.3	710.9	658.9	596.2	513.7
80°	528.8	532.0	543.1	533.0	535.9	533.5	548.1	510.6	471.1	434.2	390.2
82.5°	342.1	350.4	353.5	367.6	379.8	385.2	365.2	327.5	302.8	289.3	269.8
85°	328.3	331.7	329.8	321.5	317.4	310.6	310.3	298.4	285.6	259.6	227.9
87.5°	302.8	306.7	305.1	297.8	288.5	287.7	285.9	277.6	271.6	251.0	222.9
90°	258.3	258.6	259.9	258.6	256.7	255.4	245.0	240.1	236.5	218.8	199.8
92.5°	224.0	227.1	226.3	224.0	218.0	221.6	210.4	201.1	199.0	186.8	172.2
95°	205.8	207.8	208.4	204.2	198.5	197.2	188.6	181.3	177.9	169.9	152.2
97.5°	170.6	169.3	168.3	167.3	163.4	159.2	153.7	144.6	141.8	132.9	123.0
100°	145.7	146.2	145.7	144.9	141.5	139.4	135.5	128.2	125.1	119.4	112.6
102.5°	138.9	139.2	139.2	139.4	133.7	129.0	124.9	119.7	116.8	111.9	105.4
105°	132.7	132.7	133.2	133.4	127.7	121.0	115.0	112.1	110.8	105.1	98.3
107.5°	124.9	124.6	125.4	122.0	116.3	113.4	107.2	103.8	103.3	98.8	91.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	136.3	133.4	*132.9*	124.6	116.8	110.3	107.2	104.1	102.2	96.2	91.8
112.5°	178.4	174.5	*173.5*	165.7	138.4	136.0	133.2	132.1	131.1	123.0	115.5
115°	196.7	196.7	*199.8*	196.7	177.7	156.1	153.0	148.3	150.1	140.2	129.3
117.5°	157.4	168.3	*171.4*	162.1	162.8	149.1	127.7	120.4	116.8	113.9	118.9
120°	176.6	183.9	*180.8*	163.6	155.8	147.8	148.8	146.2	133.2	115.2	117.1
122.5°	263.2	270.0	*272.4*	273.7	277.3	271.8	259.6	242.4	229.4	207.8	195.6
125°	368.6	363.7	*363.1*	365.5	368.3	361.3	356.1	352.7	344.7	316.3	276.5
127.5°	338.4	336.1	*340.0*	339.5	346.5	334.5	332.2	334.0	330.9	315.0	291.9
130°	242.7	246.9	*249.7*	259.1	272.9	262.2	252.3	237.5	236.5	244.3	232.0
132.5°	203.7	205.5	*210.7*	222.9	233.3	228.9	214.3	200.0	199.0	205.5	204.5
135°	180.0	181.3	*182.1*	182.6	180.8	184.9	181.8	176.6	173.2	173.5	170.4
137.5°	160.8	161.3	*160.8*	156.6	151.7	150.9	158.7	158.9	155.8	150.4	146.2
140°	139.4	139.4	*137.3*	134.5	133.7	134.0	138.4	139.2	135.5	131.1	124.9
142.5°	109.0	107.7	*108.0*	112.6	121.0	119.1	113.4	106.1	105.1	110.3	108.2
145°	117.8	117.6	*116.8*	117.1	115.0	111.6	109.5	107.2	103.0	99.6	96.2
147.5°	118.9	117.8	*118.4*	117.3	116.3	114.7	113.9	115.0	113.9	111.6	107.2
150°	93.9	94.4	*94.9*	93.6	94.7	95.2	94.7	93.9	95.2	92.3	90.5
152.5°	73.4	73.1	*72.8*	73.4	73.1	74.1	74.4	74.1	73.6	73.4	70.5
155°	68.9	69.7	*69.2*	67.6	68.7	69.5	70.5	71.3	70.5	69.2	66.6
157.5°	63.5	63.5	*63.5*	63.5	63.7	64.0	65.3	65.8	65.8	65.0	63.2
160°	59.0	59.3	*59.3*	59.3	59.8	60.3	61.1	61.6	62.2	61.6	60.6
162.5°	56.4	56.2	*56.2*	56.4	56.4	57.2	58.0	59.0	59.3	58.8	58.8
165°	54.9	54.9	*54.9*	55.1	55.7	56.2	57.2	57.5	57.7	58.3	58.3
167.5°	56.7	56.7	*56.7*	57.0	57.5	58.3	58.8	59.3	60.3	60.6	60.6
170°	59.6	59.6	*59.6*	59.8	60.1	60.3	60.6	61.1	61.4	61.9	61.6
172.5°	62.4	62.2	*62.4*	62.4	62.4	62.4	62.4	62.7	63.0	63.0	63.0
175°	65.6	65.6	*65.8*	65.6	65.0	65.0	65.0	65.3	65.3	65.3	65.0
177.5°	68.7	68.7	*68.4*	68.7	68.4	68.2	67.9	67.6	67.1	67.1	66.6
180°	66.9	66.9	*66.9*	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
2.5°	24.7	23.7	22.4	20.8	19.2	18.2	17.2	15.9	15.1	14.8	14.8
5°	31.2	30.4	29.1	27.1	25.8	23.4	21.3	20.0	18.7	17.4	16.4
7.5°	43.7	43.4	44.2	45.8	43.7	38.2	32.5	29.4	29.7	31.2	32.0
10°	54.9	53.3	53.6	57.2	53.8	43.4	35.6	32.8	34.3	37.5	38.0
12.5°	66.6	64.3	62.4	61.6	54.1	42.4	35.4	32.0	32.8	35.4	35.4
15°	77.3	74.4	70.2	64.8	55.9	45.5	36.9	32.0	32.0	31.7	31.2
17.5°	83.2	80.1	72.6	64.0	54.4	45.0	36.2	31.2	28.6	26.5	26.3
20°	92.6	91.0	81.4	69.2	55.9	44.0	34.9	29.9	27.1	25.5	25.0
22.5°	101.7	97.3	84.8	72.3	57.2	43.7	34.3	29.7	27.1	25.8	25.2
25°	106.7	101.2	88.7	76.0	59.0	44.0	34.9	30.2	27.3	26.0	25.8
27.5°	110.6	104.8	93.1	79.3	61.4	45.0	36.4	31.0	27.8	26.3	26.0
30°	115.8	110.3	98.3	83.5	63.5	47.3	38.2	32.3	28.6	27.1	26.8
32.5°	125.6	118.9	104.8	87.1	66.1	49.7	40.6	34.3	29.9	27.6	27.6
35°	146.2	138.9	120.2	97.0	68.9	51.5	42.1	35.6	31.0	28.4	28.1
37.5°	189.4	180.3	157.4	121.5	76.0	54.1	44.0	36.4	31.5	29.1	28.6
40°	210.2	193.3	167.5	135.8	87.7	58.3	46.8	38.2	32.3	29.4	29.1
42.5°	235.4	221.4	186.0	139.4	97.3	67.9	51.8	40.8	33.8	29.9	29.7
45°	260.1	246.3	214.9	169.6	117.1	83.0	59.8	45.3	36.2	31.2	30.4
47.5°	303.3	280.7	243.0	198.5	144.1	105.1	73.6	51.5	40.1	32.8	31.7
50°	410.2	395.4	337.6	269.5	187.6	136.8	100.1	66.1	44.5	33.8	32.3
52.5°	553.3	525.2	459.6	376.1	272.1	203.2	146.5	98.1	54.6	34.9	32.8
55°	779.9	736.2	660.7	516.1	390.4	308.0	229.2	161.0	83.2	37.2	33.0
57.5°	1022.0	982.5	892.5	713.3	529.1	392.3	301.7	227.4	116.8	42.4	35.9
60°	1184.1	1115.2	1012.4	839.2	639.7	461.2	337.6	238.5	121.2	43.4	37.5
62.5°	1277.0	1205.7	1053.8	854.8	659.4	476.6	353.3	218.5	96.8	42.1	39.0
64°	*1287.9*	*1219.2*	*1054.3*	*839.9*	*638.4*	*460.7*	*342.3*	*205.0*	*84.0*	*41.6*	*39.8*
65°	1279.3	1215.8	1041.5	822.3	610.0	440.1	329.3	191.5	74.7	41.1	40.1
67.5°	1195.8	1140.1	957.5	745.8	542.4	380.0	270.3	147.2	58.5	40.1	39.5
70°	968.5	943.0	787.1	601.7	428.7	303.0	213.0	112.6	49.7	39.0	38.5
72.5°	726.5	694.3	587.4	459.1	334.0	235.7	161.8	86.6	44.0	38.0	37.5
75°	582.4	550.9	465.6	361.6	248.4	176.1	119.7	64.8	41.4	37.7	37.2
77.5°	481.5	456.3	382.9	275.2	176.6	126.2	87.9	52.8	40.6	38.0	37.5
80°	370.4	366.3	299.1	200.3	125.1	94.2	71.0	49.4	40.8	39.0	38.5
82.5°	259.9	249.5	211.2	149.1	108.2	86.1	68.2	50.2	42.9	41.4	41.1
85°	214.1	206.0	180.8	143.3	103.0	83.2	67.4	51.5	45.0	43.7	43.2
87.5°	211.7	202.9	179.0	137.1	97.8	79.3	64.3	50.2	44.7	44.0	44.5
90°	192.2	185.7	163.6	126.4	97.0	80.6	67.1	55.4	49.7	47.1	46.6
92.5°	168.3	164.4	148.8	122.8	100.7	85.3	73.1	61.4	56.2	54.6	53.8
95°	147.0	145.4	132.7	111.6	92.9	80.4	69.2	59.0	54.6	52.5	52.3
97.5°	120.4	118.6	108.7	94.9	81.2	70.8	62.4	54.6	51.5	51.2	51.0
100°	110.0	108.7	101.7	92.9	81.9	74.1	66.9	60.3	57.7	57.7	58.0
102.5°	101.7	100.9	94.7	85.6	77.0	69.7	63.7	57.7	54.6	54.6	52.8
105°	94.9	93.6	87.9	80.6	71.8	65.0	59.3	54.9	51.5	50.5	50.5
107.5°	89.0	87.4	82.7	75.7	69.2	62.7	57.5	53.3	51.0	50.2	50.2

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

Scaled Data Report

REPORT NUMBER: P1046189
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	89.2	87.9	82.5	74.9	68.9	64.0	59.8	55.9	53.8	52.3	52.3
112.5°	109.8	104.3	94.7	83.5	76.7	70.2	63.7	58.3	55.7	55.1	54.6
115°	124.3	118.9	106.9	92.3	80.1	71.0	64.5	60.3	58.0	59.6	60.3
117.5°	124.9	115.0	92.1	85.1	76.2	68.7	64.3	61.6	60.1	61.6	61.6
120°	127.2	107.2	94.9	92.1	81.7	71.0	66.1	65.6	64.0	60.9	60.9
122.5°	189.1	170.9	151.4	126.7	105.1	94.9	86.1	70.8	63.5	60.1	59.8
125°	260.6	241.7	211.2	178.2	147.0	114.5	85.1	72.6	65.0	60.9	60.1
127.5°	277.0	262.2	222.1	182.6	138.4	106.7	85.3	74.7	67.1	62.7	61.9
130°	223.4	211.7	184.7	152.4	121.7	98.6	83.2	72.6	65.3	60.9	59.8
132.5°	198.7	187.8	161.3	131.9	108.0	90.0	76.2	65.8	58.5	55.4	55.4
135°	166.2	158.7	135.0	117.6	100.4	85.3	71.8	62.2	56.2	54.4	54.4
137.5°	142.5	136.6	119.7	105.9	92.6	79.6	67.9	60.1	55.9	54.1	53.8
140°	122.0	118.1	108.2	94.7	81.9	69.2	60.1	55.7	53.8	53.1	52.8
142.5°	106.1	103.3	94.4	80.4	67.9	60.1	56.7	55.4	53.6	51.8	51.5
145°	92.9	90.5	80.4	72.3	66.3	63.2	60.6	56.7	52.3	49.9	49.7
147.5°	104.3	100.7	91.8	82.5	72.8	65.6	59.8	54.6	50.5	48.9	48.9
150°	89.7	87.1	81.7	74.4	66.3	59.6	54.6	51.2	49.7	49.4	49.4
152.5°	69.7	68.4	66.9	63.2	58.0	53.6	50.5	48.9	49.4	50.5	50.7
155°	65.6	65.0	63.5	60.1	56.7	52.5	49.9	49.2	49.9	51.0	51.2
157.5°	62.4	62.2	60.9	57.7	54.6	52.0	50.2	49.7	50.5	51.2	51.2
160°	59.8	59.6	57.7	55.4	53.1	51.2	49.9	49.9	50.7	51.2	51.2
162.5°	58.3	58.0	56.7	54.9	53.3	52.3	52.0	52.0	52.3	52.5	52.5
165°	58.3	58.0	56.7	55.1	54.1	54.1	54.6	54.9	54.1	53.6	53.8
167.5°	60.6	60.1	58.5	57.2	57.0	57.2	58.0	58.0	57.5	56.7	56.4
170°	61.4	61.1	60.6	60.1	60.1	60.1	60.3	60.6	60.6	60.9	60.9
172.5°	63.0	63.0	62.7	62.7	63.0	62.7	62.7	63.2	63.7	64.0	64.3
175°	65.0	64.8	65.0	65.0	65.3	65.0	64.8	65.3	66.1	66.6	66.6
177.5°	66.6	66.6	66.3	66.1	66.1	66.1	66.1	66.3	66.3	66.3	66.1
180°	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

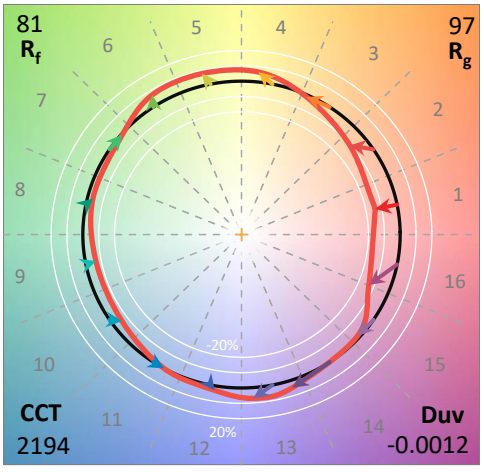
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
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-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

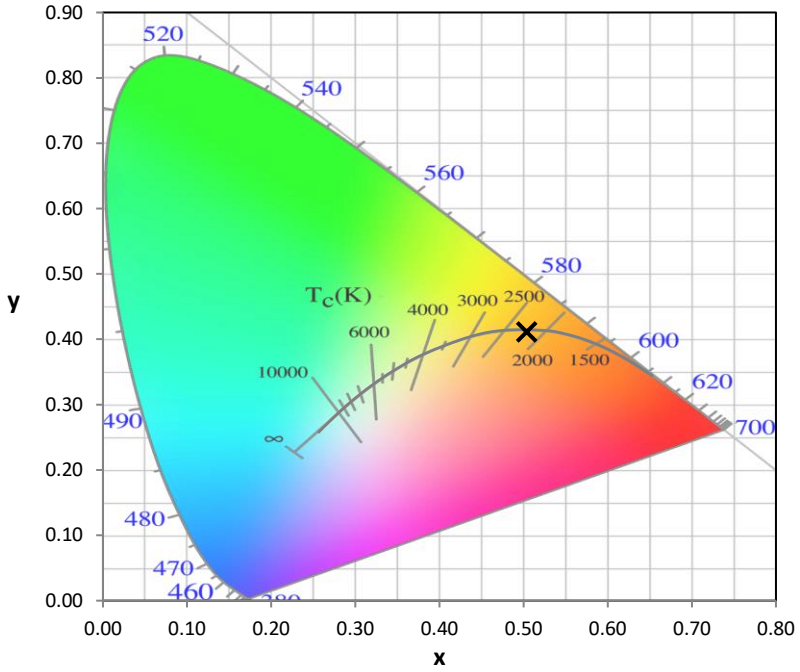
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

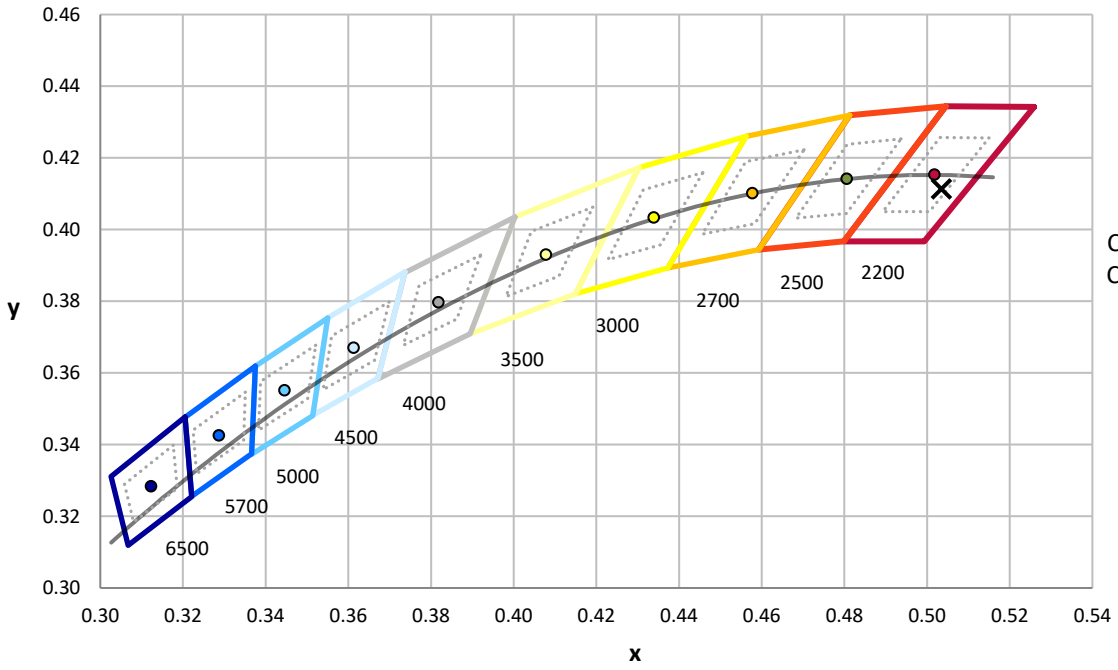
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

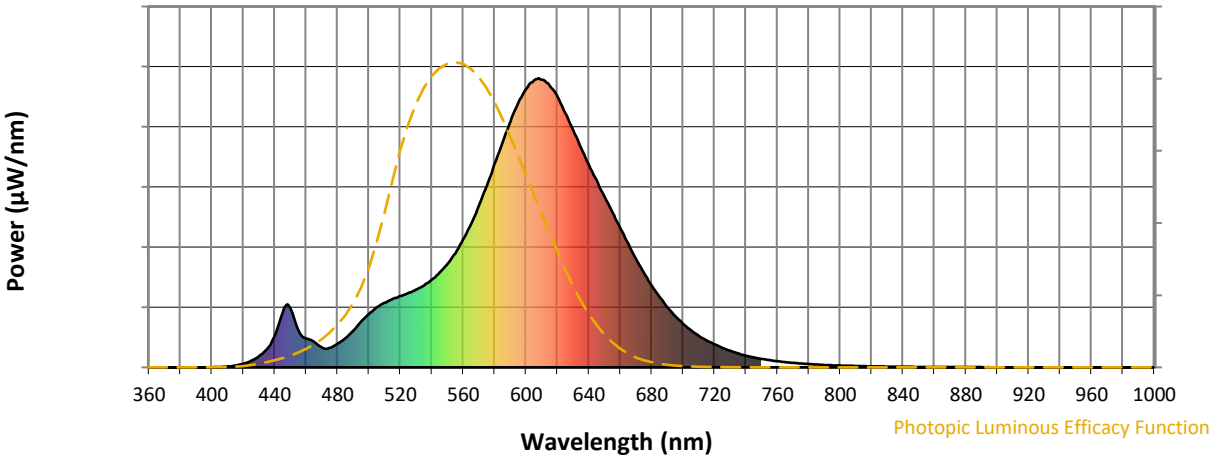


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

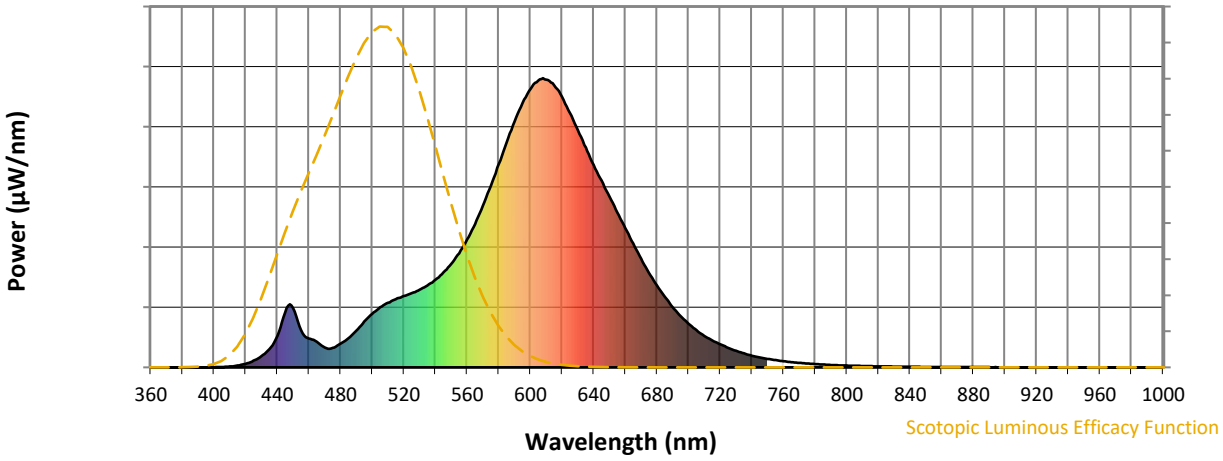


Photopic Lumens: NR

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

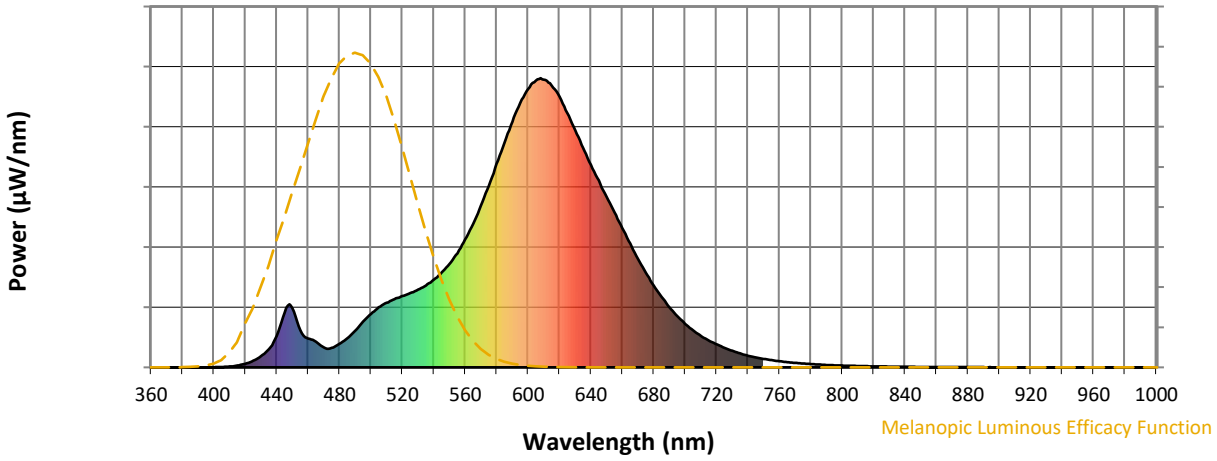


Scotopic Lumens: NR **S/P: 0.96**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

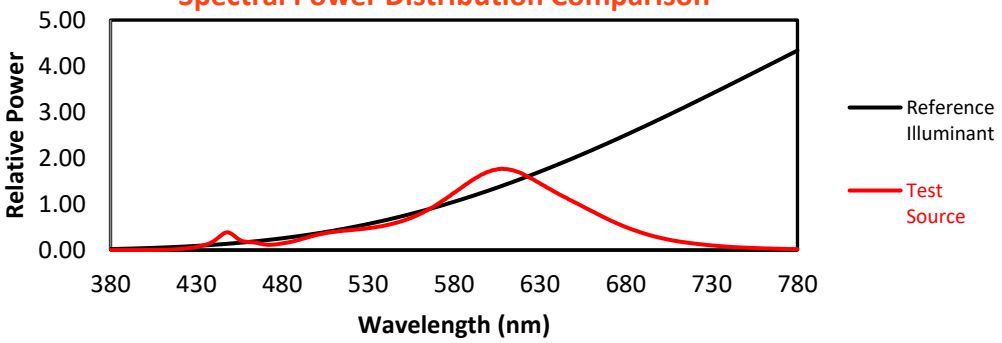
REPORT NUMBER: SP1-2501-332-7

TM-30-18

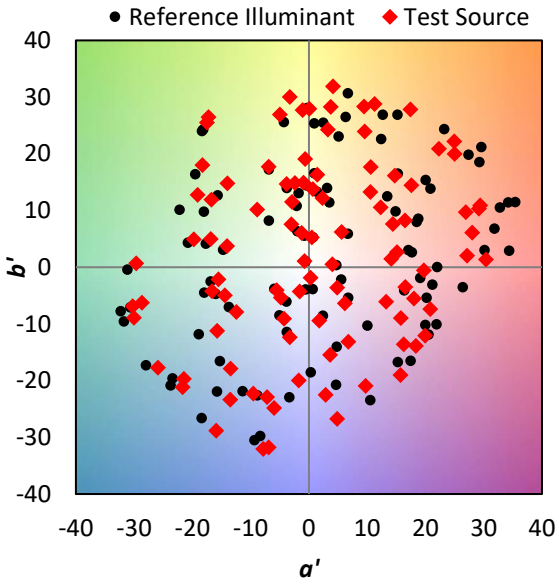
Summary

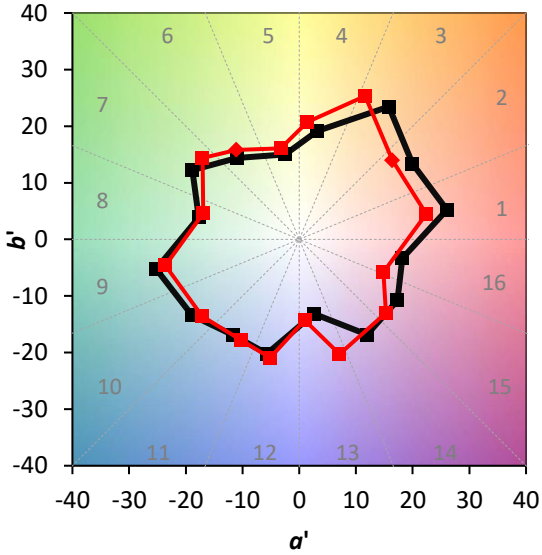
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

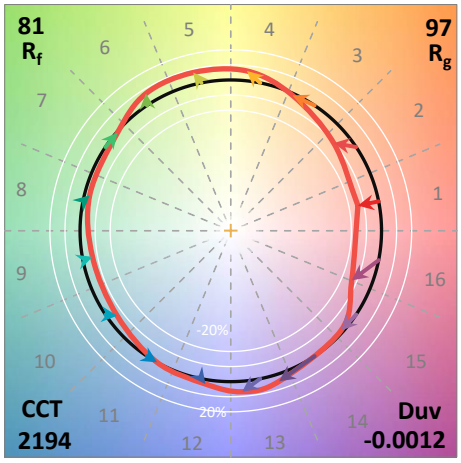
Spectral Power Distribution Comparison

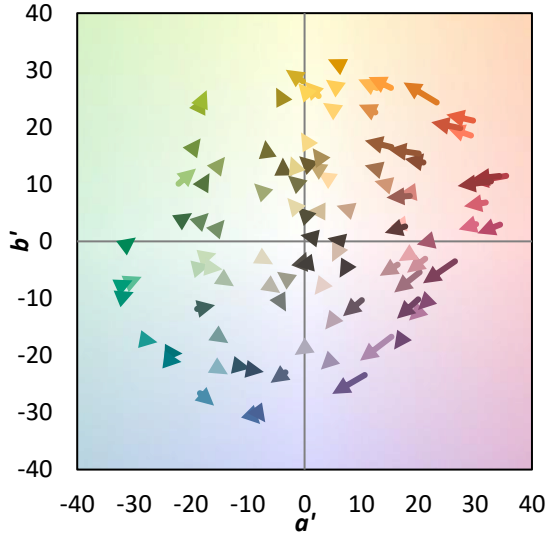


Color Vector Graphics







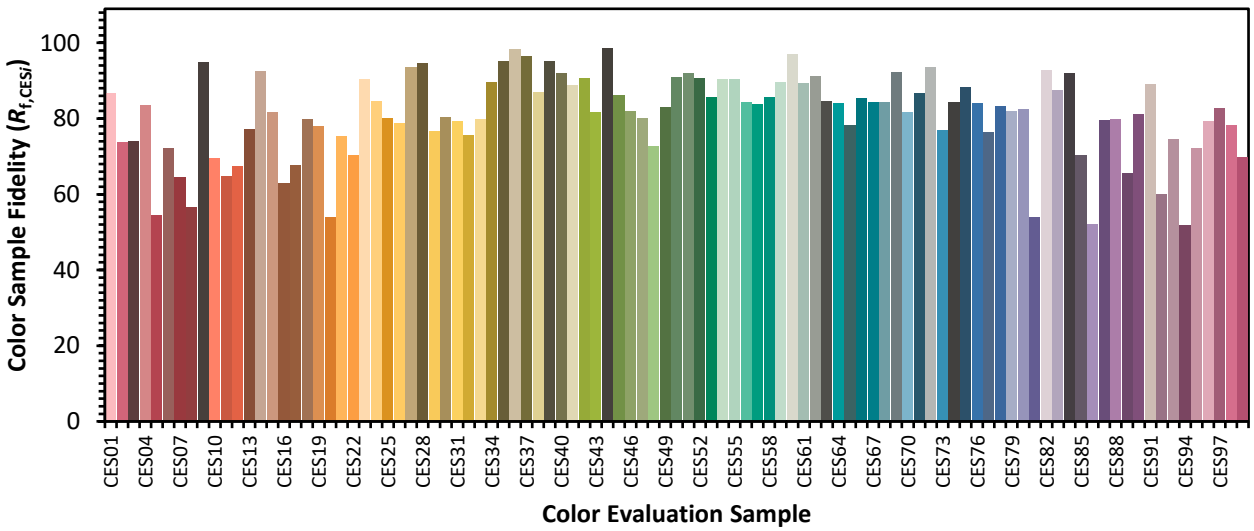


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

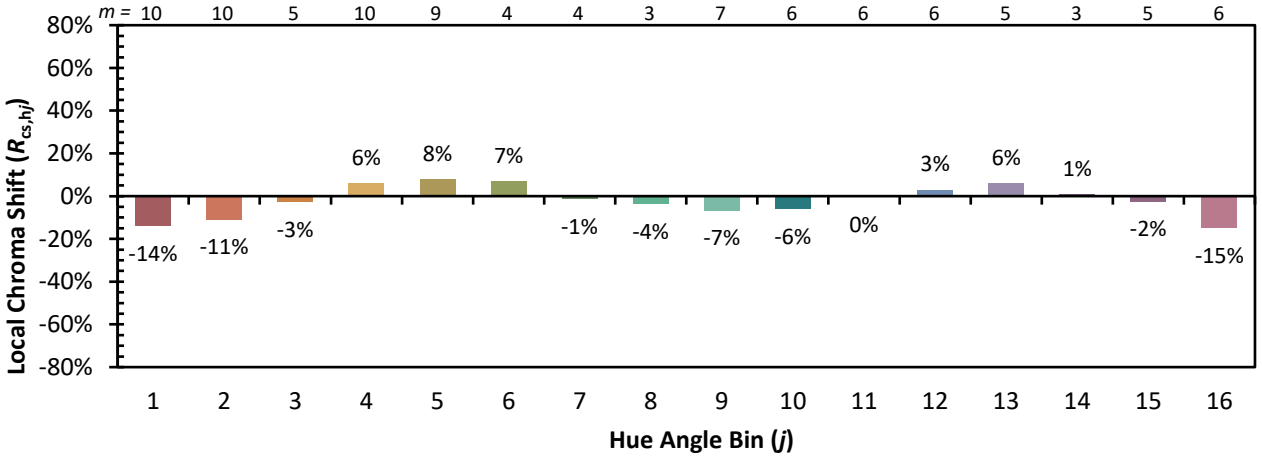
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
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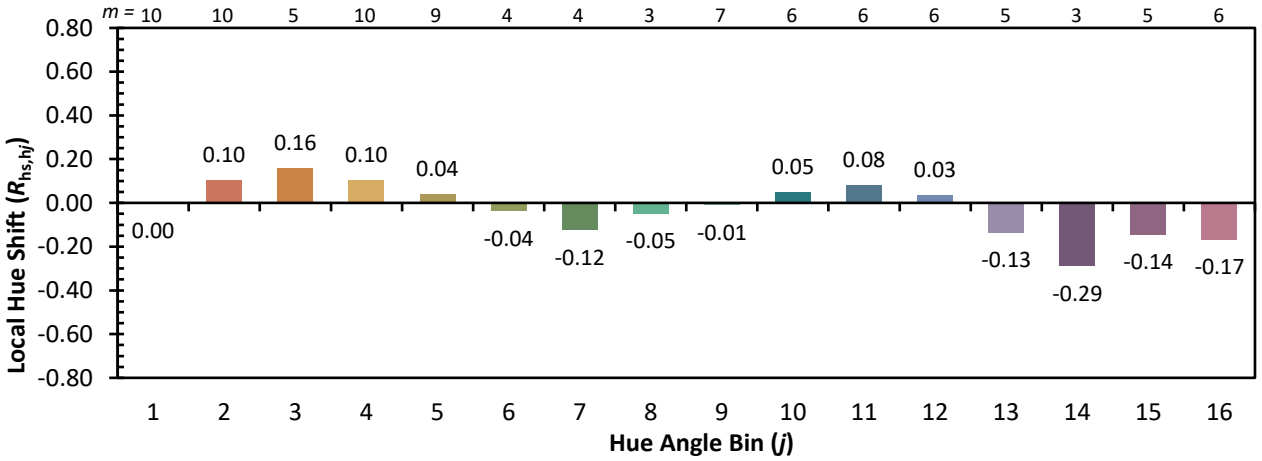


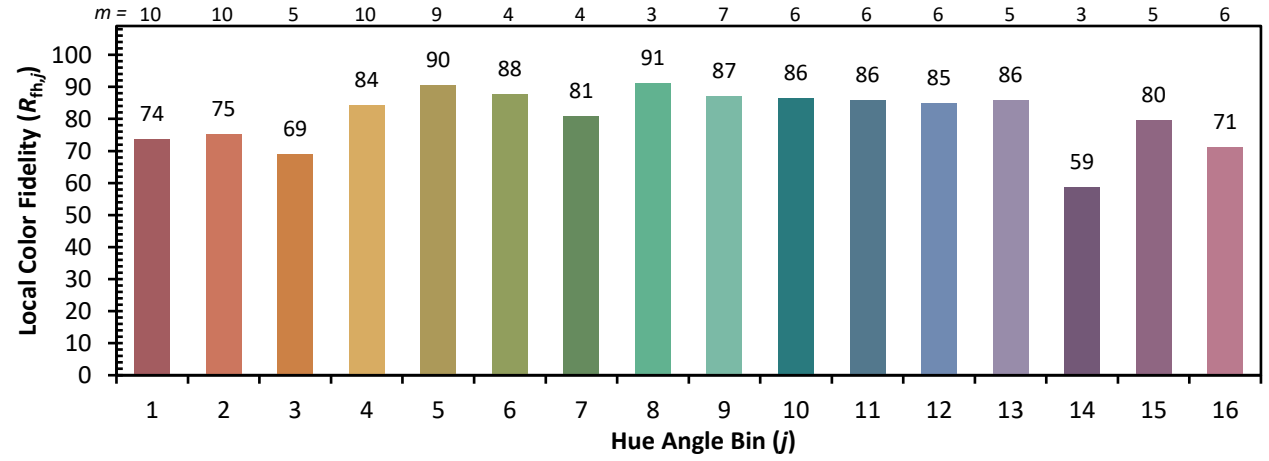
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Color Rendition by Hue-Angle Bin



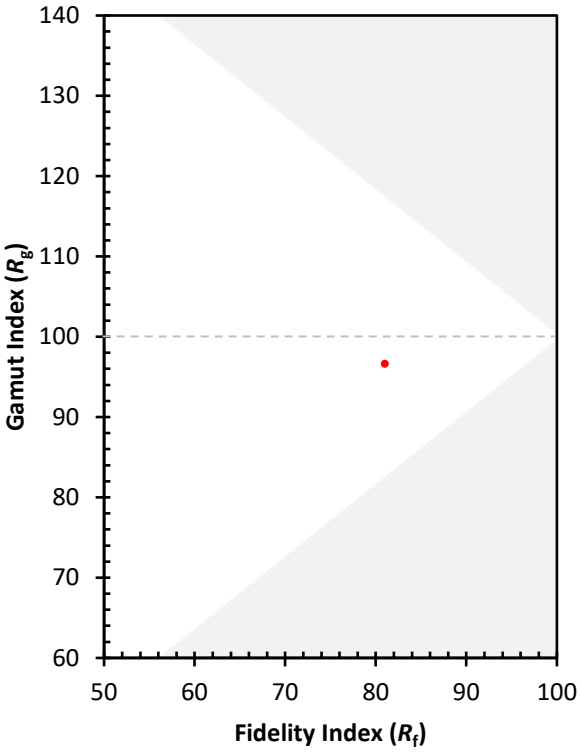


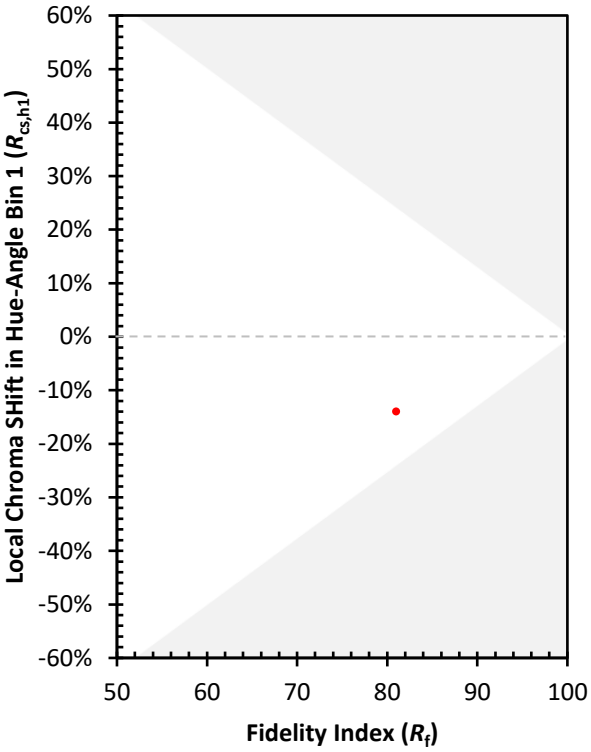


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Measure Comparisons





(END OF REPORT)