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: P1046386

Luminaire Tested: **FFX-CLB-40-730-U-FR-T4**

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:	P1046386
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-730-U-FR-T4
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6254.8 lumens
Efficiency:	N/A
Efficacy:	158.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

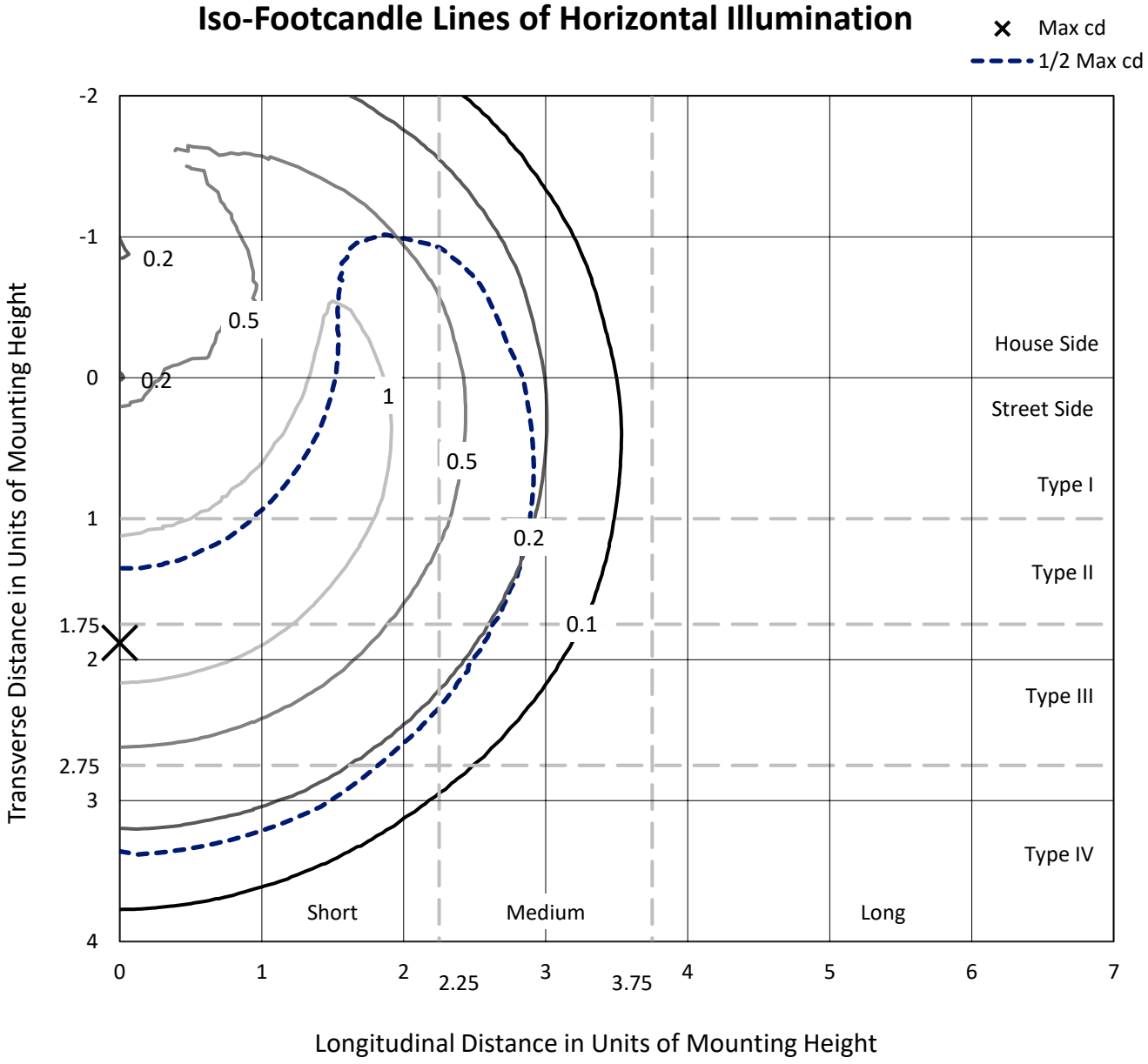


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Iso-Footcandle Lines of Horizontal Illumination



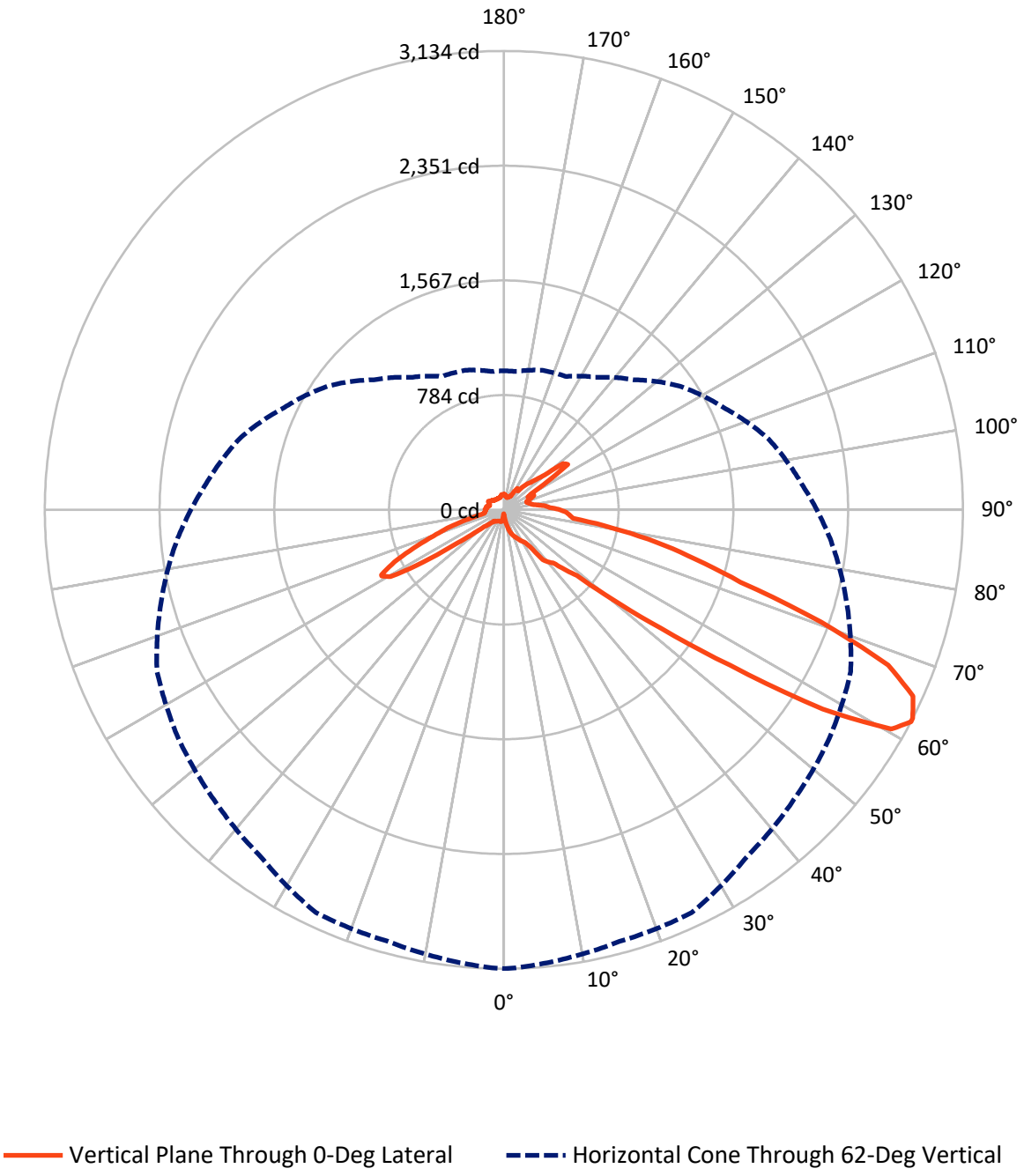
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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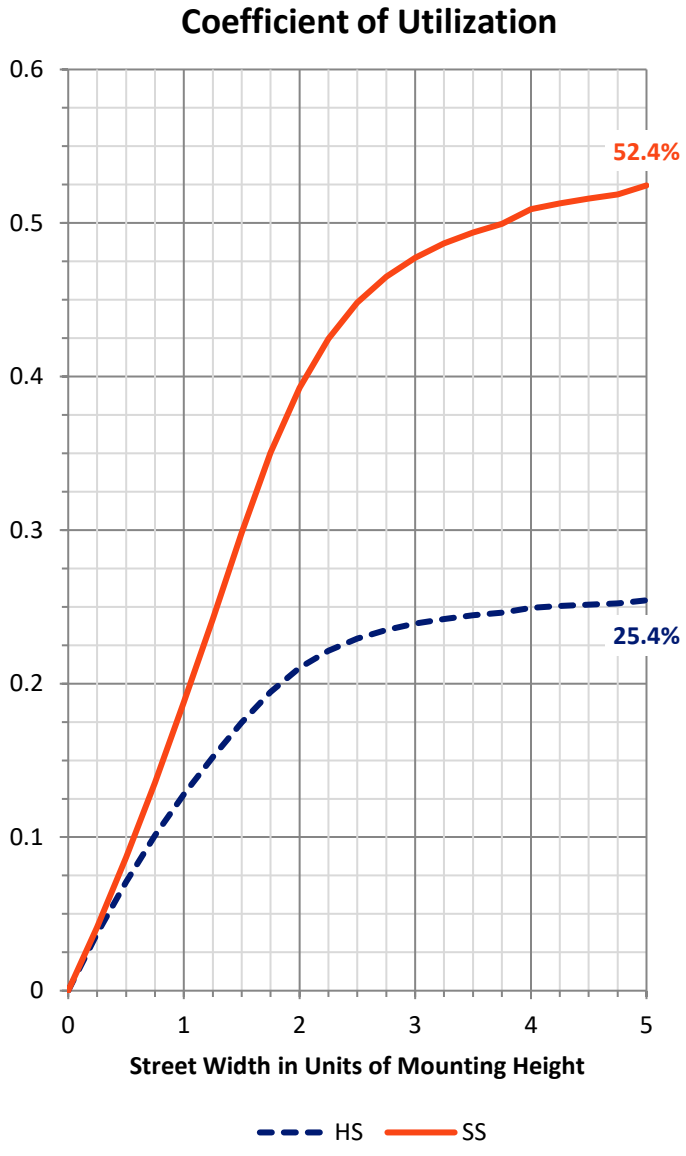
REPORT NUMBER: P1046386
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1645.7	470.2	2115.9
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	3416.6	722.3	4138.9
	% Fixture	54.6	11.5	66.2
Total	Lumens	5062.3	1192.5	6254.8
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.1
10°-20°	34.7	0.6
20°-30°	75.1	1.2
30°-40°	150.4	2.4
40°-50°	329.4	5.3
50°-60°	1153.5	18.4
60°-70°	1930.4	30.9
70°-80°	1002.0	16.0
80°-90°	380.5	6.1
90°-100°	242.7	3.9
100°-110°	160.8	2.6
110°-120°	168.0	2.7
120°-130°	280.7	4.5
130°-140°	168.9	2.7
140°-150°	89.3	1.4
150°-160°	47.0	0.8
160°-170°	25.5	0.4
170°-180°	9.5	0.2
0°-90°	5062.3	80.9
0°-180°	6254.8	100.0



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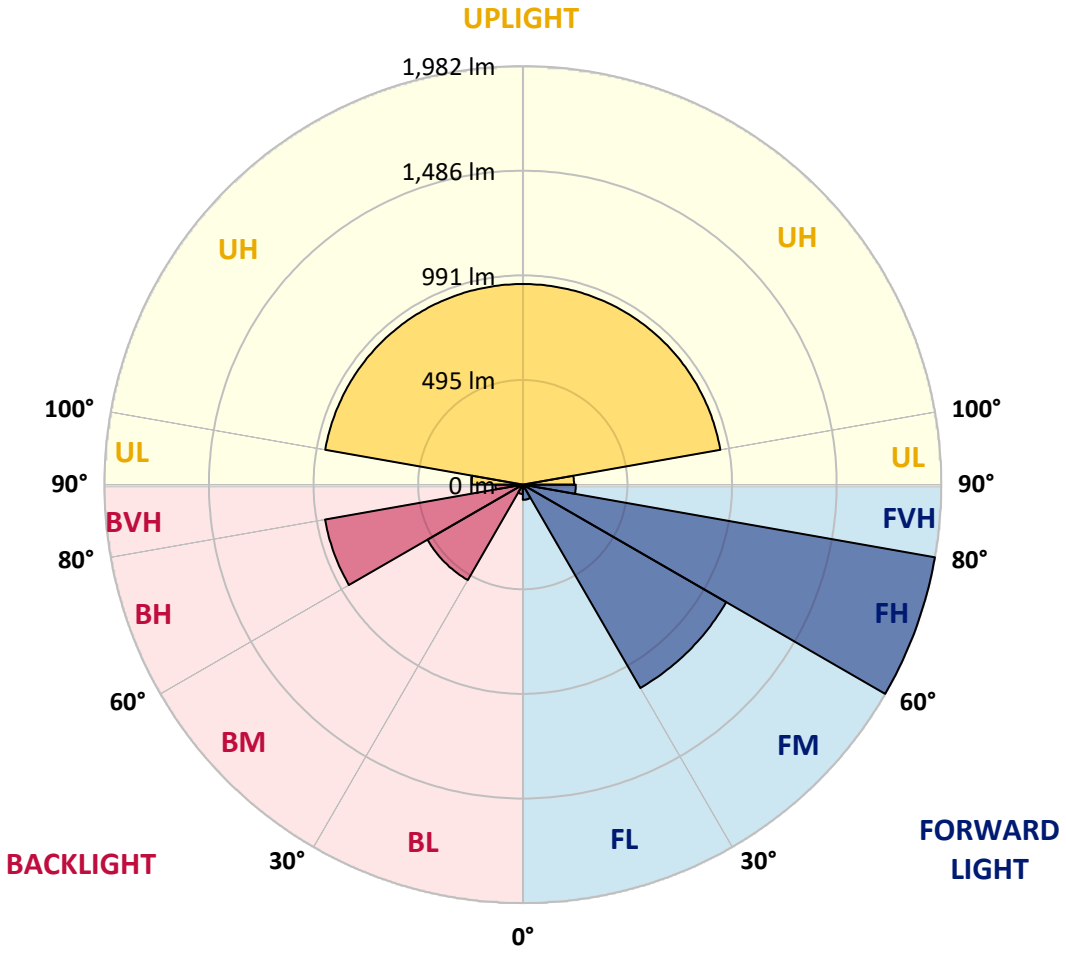
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	72.1	1.2			
FM	(30°-60°)	1112.0	17.8			
FH	(60°-80°)	1981.5	31.7			G2/5000
FVH	(80°-90°)	251.0	4.0			G3/500
BL	(0°-30°)	44.1	0.7	B0/110		
BM	(30°-60°)	521.3	8.3	B1/1000		
BH	(60°-80°)	950.8	15.2	B2/1000		G2/1000
BVH	(80°-90°)	129.5	2.1			G2/225
UL	(90°-100°)	242.7	3.9		U3/500	
UH	(100°-180°)	949.8	15.2		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
2.5°	39.4	38.6	38.6	40.2	42.2	42.2	42.6	41.4	41.4	41.0	41.4
5°	57.3	55.7	56.5	56.9	57.7	58.5	59.3	59.3	57.7	56.5	53.3
7.5°	80.0	79.6	80.4	80.0	79.2	81.2	82.4	85.1	85.9	80.8	74.4
10°	103.1	101.9	101.5	101.9	102.3	101.1	103.5	105.4	102.7	96.7	91.1
12.5°	128.1	128.1	128.1	127.7	127.7	127.3	126.5	126.1	123.3	116.6	107.8
15°	156.0	156.4	157.2	156.8	154.8	151.6	149.2	147.2	145.6	140.9	129.7
17.5°	173.1	172.3	173.1	172.7	171.9	169.9	165.5	161.5	156.4	149.6	141.3
20°	189.0	188.6	188.2	188.2	187.4	185.0	182.2	175.9	169.1	161.9	152.4
22.5°	201.3	200.5	201.3	200.9	200.5	199.7	195.0	189.4	181.8	173.9	163.9
25°	217.2	216.9	217.2	216.1	216.1	214.9	212.1	204.9	196.6	187.8	175.5
27.5°	234.8	233.6	234.8	234.4	232.8	229.6	227.2	219.2	208.9	200.5	189.4
30°	249.5	249.5	250.3	247.9	249.5	246.7	241.1	232.4	223.6	212.9	201.3
32.5°	265.0	265.0	264.2	263.8	265.8	262.2	255.8	245.5	238.3	227.2	217.2
35°	308.4	305.2	310.4	310.0	319.9	312.7	300.8	286.9	275.7	261.4	248.3
37.5°	432.9	431.3	428.9	413.8	396.3	399.1	401.1	385.6	371.6	345.8	315.1
40°	468.3	467.9	467.5	458.8	463.5	450.8	444.4	436.5	434.1	400.3	359.3
42.5°	497.4	492.6	497.4	513.3	538.3	529.6	497.4	456.0	448.4	416.2	399.5
45°	576.1	573.0	580.9	585.7	577.7	563.4	572.6	542.3	521.6	475.9	445.2
47.5°	670.4	667.3	674.8	678.8	695.1	680.0	672.8	647.0	612.4	569.0	529.2
50°	951.8	915.9	945.0	935.0	939.0	905.2	918.7	881.7	850.7	779.5	707.5
52.5°	1343.7	1331.7	1311.9	1289.6	1306.7	1270.5	1281.6	1241.4	1185.3	1102.6	996.3
55°	1874.1	1833.9	1846.6	1892.4	1882.8	1818.0	1806.8	1708.9	1608.3	1484.5	1372.7
57.5°	2568.0	2548.1	2525.0	2494.4	2464.5	2397.3	2364.3	2254.9	2098.5	1925.8	1770.2
60°	3040.3	3024.4	3014.0	2920.5	2865.6	2730.3	2699.7	2623.7	2484.4	2296.6	2082.2
62°	3134.2	3131.8	3110.7	3052.6	3036.3	2893.1	2800.0	2715.2	2613.0	2422.4	2235.8
62.5°	3133.4	3128.6	3116.3	3067.8	3051.0	2916.9	2815.9	2726.0	2624.1	2437.1	2253.7
65°	3069.7	3059.0	3053.4	3024.4	3016.8	2938.0	2803.9	2711.2	2625.7	2419.6	2266.8
67.5°	2830.2	2842.9	2843.7	2814.7	2789.6	2742.7	2614.6	2534.2	2475.3	2260.4	2116.4
70°	2297.4	2280.3	2262.8	2276.3	2265.2	2239.7	2137.9	2036.8	1963.2	1850.6	1714.1
72.5°	1688.7	1715.7	1715.3	1719.3	1721.3	1657.2	1611.9	1553.8	1514.0	1416.5	1319.0
75°	1353.6	1356.0	1348.5	1320.6	1290.8	1253.8	1261.7	1256.5	1237.4	1134.4	1037.7
77.5°	1068.7	1042.5	1053.2	1009.5	970.9	970.5	986.0	1001.1	1009.5	926.7	851.9
80°	752.4	746.4	736.9	740.9	709.0	717.4	725.0	735.3	719.0	670.1	635.4
82.5°	475.1	469.9	462.4	499.0	529.6	522.8	498.6	459.6	450.4	454.0	446.0
85°	449.2	448.8	442.1	438.5	433.7	423.0	428.9	437.3	432.5	405.5	370.4
87.5°	424.2	423.0	417.8	415.8	406.6	405.5	411.0	414.2	416.2	391.9	362.5
90°	371.6	366.9	362.1	366.1	364.9	365.7	367.3	366.5	367.3	338.6	326.3
92.5°	310.0	308.8	305.2	307.2	310.0	321.1	316.3	308.8	307.6	296.0	284.1
95°	282.9	283.7	279.3	282.1	282.9	282.9	279.7	276.1	273.4	264.2	253.5
97.5°	234.4	230.8	229.2	231.2	232.0	229.2	227.2	221.2	220.8	211.7	206.5
100°	199.3	198.5	197.8	200.1	200.9	199.7	200.1	196.6	196.2	191.0	185.4
102.5°	186.2	185.8	185.4	187.4	188.2	187.4	186.2	182.6	183.4	177.9	173.9
105°	175.9	175.9	175.5	176.7	174.3	173.1	171.5	171.5	172.3	167.9	161.9
107.5°	164.3	163.9	164.3	163.9	161.1	160.0	159.6	158.4	161.1	158.8	152.4

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*166.3*	166.3	165.9	161.5	160.0	158.0	157.2	159.2	158.4	154.4	150.4
112.5°	*203.7*	201.3	202.9	197.0	194.2	195.8	196.6	198.2	201.3	195.0	189.0
115°	*227.6*	228.0	232.0	232.0	226.0	228.8	228.8	228.4	231.6	226.8	220.8
117.5°	*185.8*	188.2	200.9	193.0	195.0	196.6	186.6	183.0	182.2	183.4	196.2
120°	*214.1*	210.9	222.8	197.8	190.2	190.2	197.4	206.5	196.6	181.4	185.4
122.5°	*350.1*	350.5	350.9	361.7	360.5	363.7	358.1	350.9	330.3	330.6	311.9
125°	*536.0*	530.8	530.8	526.0	525.2	517.7	527.2	533.2	517.3	490.2	460.8
127.5°	*512.9*	524.0	520.0	508.1	496.6	492.6	503.7	522.4	513.3	489.4	462.4
130°	*364.1*	366.9	366.1	378.8	382.0	378.0	382.0	368.4	370.4	376.0	361.7
132.5°	*305.2*	303.6	309.2	326.7	333.4	325.5	314.3	304.4	304.8	316.7	315.9
135°	*263.0*	261.8	265.8	266.6	274.1	267.8	257.8	257.8	260.2	263.0	261.8
137.5°	*237.5*	236.0	237.1	228.0	218.8	218.4	226.4	230.8	228.4	225.6	222.4
140°	*204.5*	205.3	203.3	195.8	191.8	192.6	197.8	204.5	202.5	196.6	191.8
142.5°	*162.7*	161.1	163.5	169.1	177.1	177.1	169.1	160.7	160.4	163.1	167.1
145°	*160.4*	159.6	160.0	158.8	160.4	158.8	156.4	154.0	151.2	149.2	147.6
147.5°	*173.9*	173.9	173.5	171.5	169.9	167.1	167.9	170.7	172.3	170.7	168.3
150°	*141.3*	142.4	142.4	142.0	140.5	141.6	143.2	144.0	145.6	145.6	143.2
152.5°	*108.6*	108.2	109.4	107.8	107.4	108.2	110.2	111.8	112.2	112.2	109.0
155°	*103.5*	102.7	103.5	102.7	101.9	102.7	104.2	105.0	105.8	104.6	101.5
157.5°	*96.7*	96.7	96.7	95.9	96.3	96.3	97.1	97.5	97.9	97.5	96.7
160°	*91.5*	91.5	91.9	91.5	91.5	92.3	91.9	91.5	91.5	91.1	90.7
162.5°	*88.3*	88.3	88.3	88.3	87.9	87.9	88.3	87.9	87.5	87.1	87.9
165°	*86.7*	86.3	86.3	86.3	86.7	86.3	86.3	86.3	85.9	87.1	88.7
167.5°	*89.9*	89.1	89.5	89.9	89.9	89.5	89.5	89.5	90.3	91.5	92.7
170°	*94.3*	93.9	93.9	94.3	94.3	93.9	93.9	93.9	94.3	94.7	95.1
172.5°	*97.9*	97.5	97.5	97.5	97.1	96.7	96.7	96.7	96.7	96.7	97.1
175°	*101.5*	101.5	101.5	101.5	101.1	100.7	100.7	100.7	100.7	100.7	100.7
177.5°	*105.4*	105.0	105.4	105.0	105.0	105.0	104.6	104.2	103.8	103.8	103.8
180°	*104.6*	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
2.5°	40.6	40.2	37.8	35.8	34.2	32.6	30.2	28.3	26.7	26.3	26.3
5°	52.5	51.7	49.3	46.2	44.6	42.2	39.8	38.2	36.2	35.4	35.8
7.5°	72.4	72.8	73.6	75.2	74.4	67.6	60.1	58.5	60.1	62.5	63.7
10°	89.9	88.7	88.3	93.5	92.3	82.4	72.4	69.2	72.0	77.2	79.6
12.5°	104.2	101.9	101.5	102.3	97.5	86.7	78.4	74.8	76.4	80.4	80.0
15°	125.3	121.8	116.6	113.4	107.4	99.9	89.5	83.6	83.6	83.6	83.2
17.5°	137.7	133.7	123.7	114.6	107.0	101.5	94.7	89.1	83.2	82.4	82.0
20°	148.4	142.4	131.7	121.8	112.2	104.2	94.7	87.9	82.8	82.0	81.6
22.5°	157.6	152.0	140.5	128.5	116.6	107.4	97.1	89.9	84.8	83.2	82.8
25°	169.9	163.9	150.8	136.9	122.9	111.4	101.9	93.5	87.1	84.0	84.0
27.5°	182.2	175.5	160.7	146.4	131.3	117.0	106.2	97.9	89.9	85.5	85.1
30°	194.2	186.6	170.7	154.4	139.3	124.1	111.8	102.3	93.5	88.7	88.3
32.5°	210.9	202.1	183.4	163.1	148.0	131.7	117.8	106.6	97.5	92.7	91.9
35°	243.5	233.6	212.5	186.2	162.3	140.5	123.7	109.0	100.3	95.1	94.7
37.5°	304.0	292.5	263.0	230.8	198.2	165.1	134.5	112.2	102.3	97.5	96.7
40°	340.2	317.5	286.5	261.0	236.3	204.5	165.1	130.1	106.2	100.7	99.9
42.5°	387.1	363.7	318.7	270.2	238.7	213.7	185.8	163.1	128.9	109.0	105.4
45°	431.7	413.8	375.2	323.5	275.7	232.4	197.8	175.9	154.0	131.3	127.7
47.5°	506.5	480.3	429.3	376.4	327.9	279.3	238.3	195.8	167.5	154.0	153.2
50°	698.3	650.6	576.9	513.7	422.2	347.8	299.2	242.3	206.1	185.0	178.3
52.5°	946.2	896.5	812.5	721.0	619.5	523.6	428.5	347.0	288.1	251.1	252.3
55°	1315.4	1265.7	1142.3	985.6	846.3	746.4	644.6	545.5	450.8	396.3	389.5
57.5°	1705.0	1660.4	1555.0	1363.6	1142.0	957.3	836.4	766.3	717.8	658.5	658.5
60°	1990.7	1916.6	1797.3	1604.3	1407.7	1165.0	1009.9	909.6	900.8	890.5	898.4
62°	*2136.7*	*2041.2*	*1870.9*	*1654.0*	*1471.4*	*1255.4*	*1104.5*	*1005.1*	*987.6*	*948.6*	*949.4*
62.5°	2161.4	2055.9	1883.2	1654.0	1477.0	1263.3	1114.9	1017.8	993.5	945.8	946.6
65°	2186.0	2059.1	1892.4	1627.4	1445.5	1235.9	1121.7	995.1	931.5	851.5	828.0
67.5°	2044.4	1914.3	1771.4	1513.2	1324.2	1121.7	995.1	868.2	764.4	683.2	670.4
70°	1660.4	1558.1	1447.9	1250.6	1085.5	921.5	814.1	699.5	596.0	506.5	512.1
72.5°	1260.1	1164.6	1063.6	938.2	835.6	725.4	630.3	538.0	452.0	396.3	406.6
75°	976.0	912.4	840.7	749.6	671.6	569.8	461.6	379.6	321.5	287.7	289.7
77.5°	802.5	736.5	678.0	594.5	520.4	416.2	311.9	241.9	208.1	193.0	189.0
80°	617.1	569.0	517.3	442.5	360.9	280.5	209.7	177.1	154.8	143.6	139.3
82.5°	430.9	401.1	357.7	303.6	256.6	227.2	196.6	169.1	146.0	135.7	130.9
85°	354.9	339.0	315.1	284.5	256.6	224.0	189.8	161.9	142.0	134.1	129.7
87.5°	345.8	335.0	308.0	275.3	241.9	208.5	173.9	148.0	135.3	130.1	126.1
90°	317.1	304.8	285.7	253.5	223.6	187.8	159.6	144.0	134.5	128.5	124.1
92.5°	276.5	269.8	252.3	229.2	208.5	185.4	165.1	151.2	141.3	134.1	129.7
95°	245.9	237.9	228.0	209.3	192.2	173.5	154.8	141.6	131.3	123.7	120.2
97.5°	202.1	196.6	187.0	174.7	161.9	146.8	133.7	124.9	118.2	114.6	112.2
100°	183.4	179.8	174.3	165.5	155.2	144.4	134.9	130.1	127.3	124.9	123.7
102.5°	169.9	165.9	161.5	152.4	144.4	134.9	128.5	124.5	121.0	117.0	116.2
105°	158.0	154.8	148.8	141.3	133.3	124.1	116.6	114.2	111.0	107.4	107.0
107.5°	148.8	145.6	140.5	132.5	125.3	117.4	110.6	107.0	103.5	101.5	101.1

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

Scaled Data Report

REPORT NUMBER: P1046386
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	148.0	145.6	140.1	133.3	127.7	119.8	112.2	111.0	107.0	102.3	101.9
112.5°	184.6	177.1	166.3	155.2	145.6	137.7	128.1	118.6	110.6	105.8	105.0
115°	214.1	206.5	193.4	177.1	161.9	144.8	128.5	116.6	112.2	111.0	112.6
117.5°	201.3	185.4	163.1	153.2	140.1	130.9	124.5	121.8	114.6	116.6	118.6
120°	193.4	182.6	163.1	161.5	155.6	145.2	130.5	127.3	123.3	120.2	119.8
122.5°	310.8	300.4	278.1	244.3	207.7	183.0	173.9	154.8	131.7	114.2	111.4
125°	440.5	423.8	380.0	342.6	294.0	241.9	195.0	154.8	123.3	106.6	104.6
127.5°	449.2	430.5	392.3	341.8	280.1	216.5	167.9	138.9	117.8	106.6	104.6
130°	350.1	338.2	310.0	262.6	220.0	182.2	154.8	131.3	112.2	103.8	102.7
132.5°	309.6	298.8	258.6	219.2	191.0	161.9	138.9	116.6	100.3	94.7	93.9
135°	255.8	243.9	217.2	193.0	172.3	148.8	125.7	106.6	95.1	92.3	91.9
137.5°	218.4	212.9	193.0	175.9	157.2	136.9	117.8	103.1	95.9	93.5	93.1
140°	188.6	187.4	175.1	160.0	141.3	119.8	105.0	96.3	93.5	92.3	91.9
142.5°	166.7	165.1	151.6	134.1	117.4	106.2	100.7	97.9	95.5	92.3	91.5
145°	144.4	141.6	133.3	125.7	120.6	117.0	111.8	103.1	93.9	89.1	88.7
147.5°	164.3	159.6	150.4	139.7	128.5	117.0	106.2	97.1	89.5	86.7	86.3
150°	138.1	137.7	131.7	123.3	115.0	104.6	96.7	90.7	87.5	87.1	87.1
152.5°	107.0	107.0	107.0	105.0	101.1	95.5	89.5	85.9	85.9	87.5	87.9
155°	100.7	101.1	101.5	100.7	97.5	92.3	87.1	85.5	85.9	87.5	87.9
157.5°	95.9	95.9	96.3	95.5	93.9	90.3	86.7	85.1	85.5	86.3	86.7
160°	90.3	90.3	90.7	90.7	89.1	87.9	86.3	85.1	85.1	85.5	85.9
162.5°	88.3	88.3	88.3	88.3	87.9	87.9	87.9	87.9	87.5	87.5	87.5
165°	89.1	89.1	87.9	87.5	88.3	89.5	91.5	91.9	89.9	89.5	89.5
167.5°	93.1	93.1	91.9	91.1	92.3	93.5	96.3	97.1	95.5	93.9	93.9
170°	95.5	95.5	95.5	95.9	96.3	97.5	99.1	99.9	99.5	99.1	99.1
172.5°	97.1	97.1	97.9	98.7	99.9	100.7	101.5	102.3	103.1	103.1	103.5
175°	100.3	100.7	101.5	101.9	102.7	103.5	104.2	105.0	105.4	105.4	105.4
177.5°	103.5	103.5	103.5	103.8	104.2	104.6	105.0	105.4	105.4	105.8	106.2
180°	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

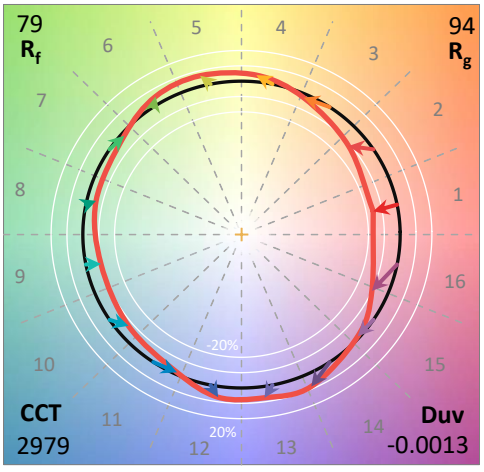
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-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):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

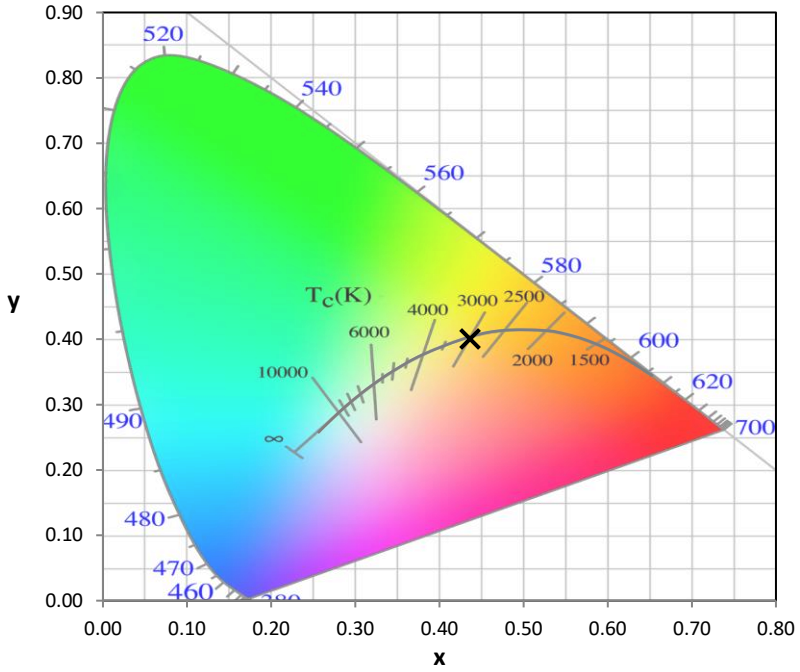
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

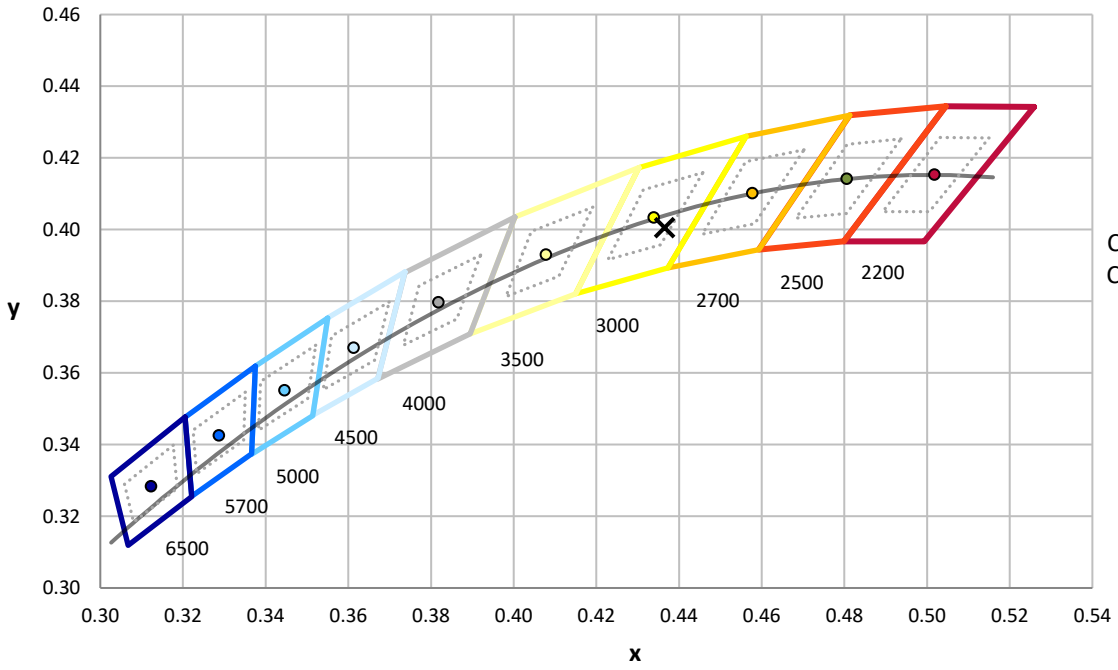
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

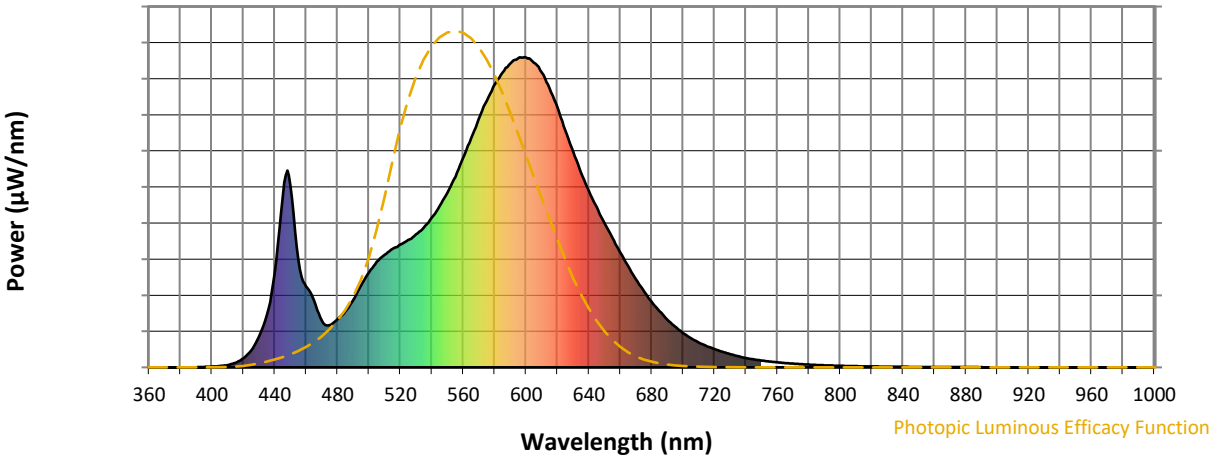


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

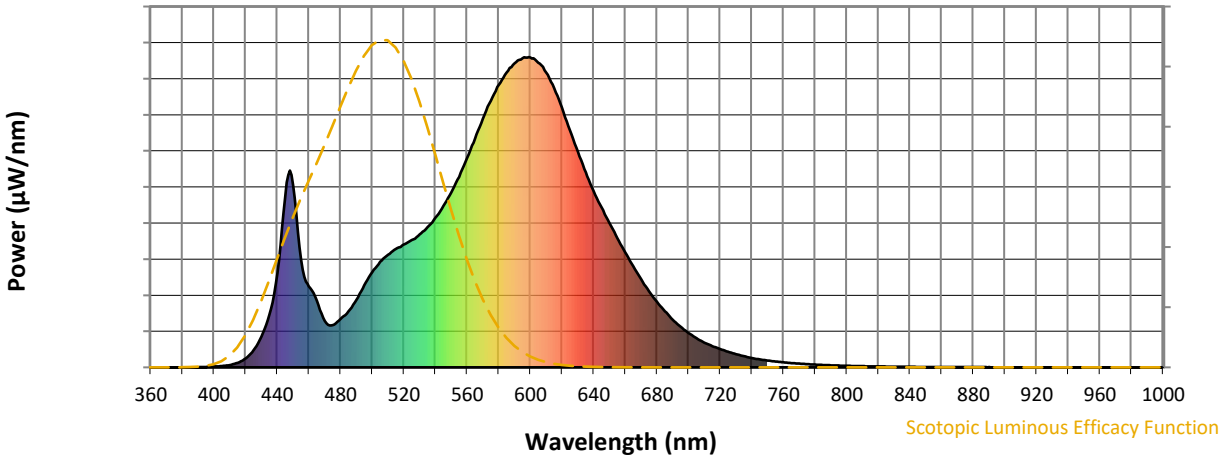


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

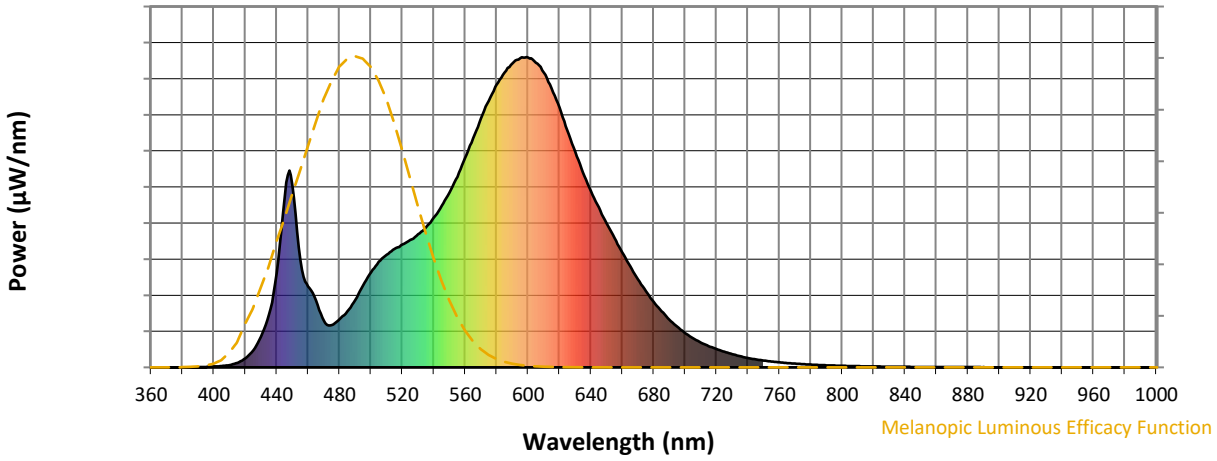


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

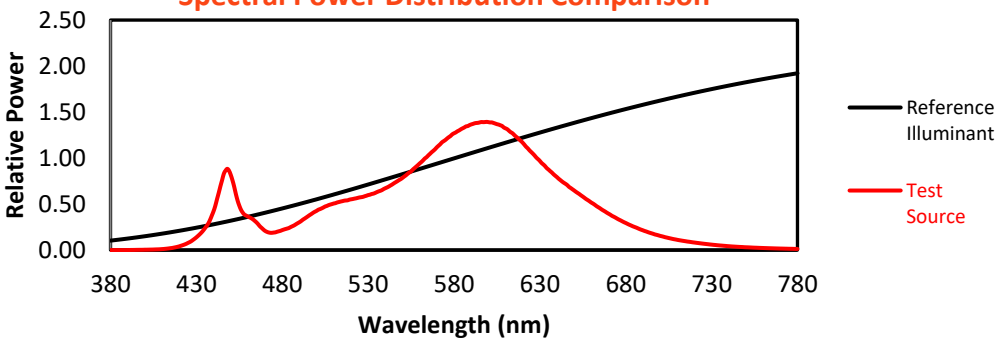
REPORT NUMBER: SP1-2501-332-9

TM-30-18

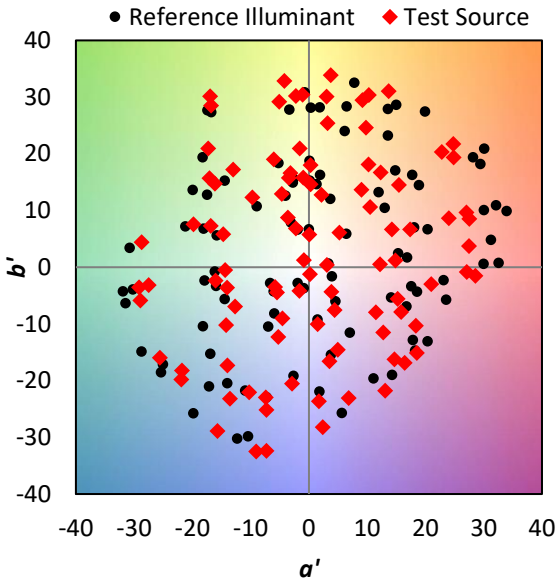
Summary

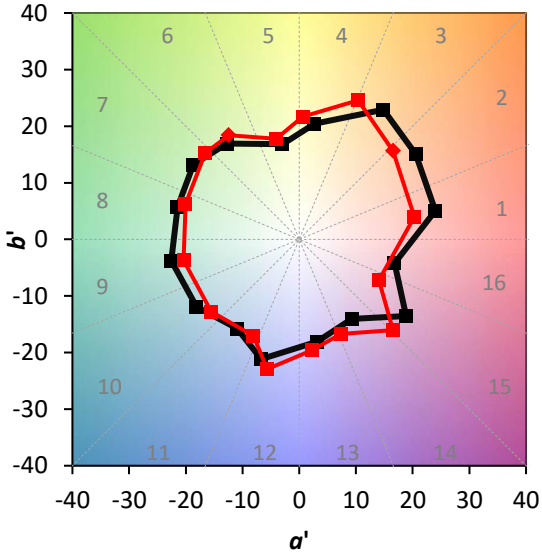
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

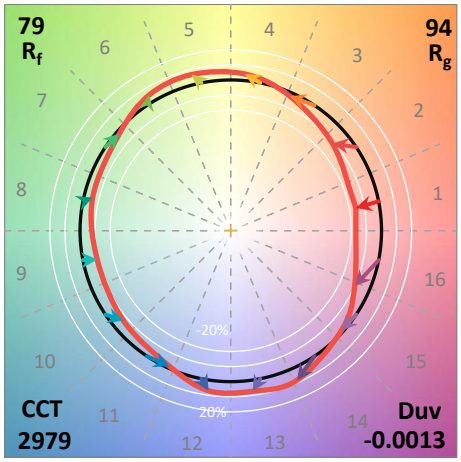
Spectral Power Distribution Comparison

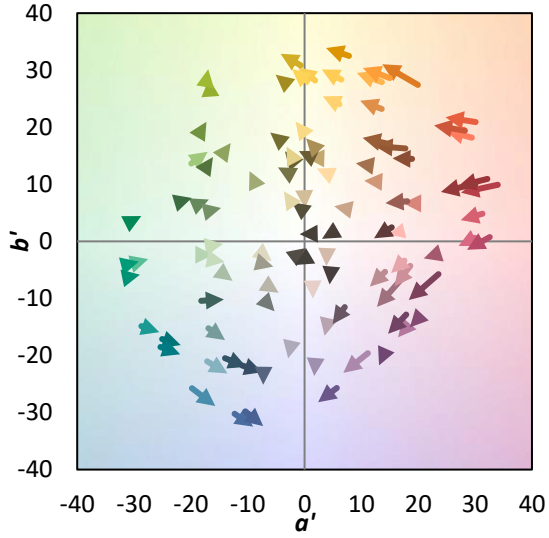


Color Vector Graphics







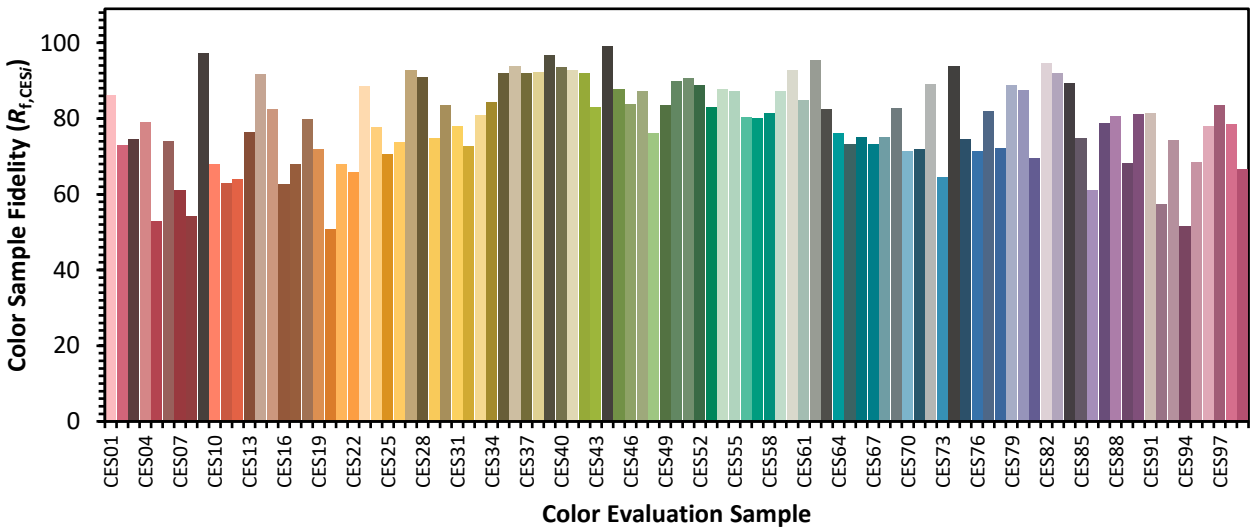


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

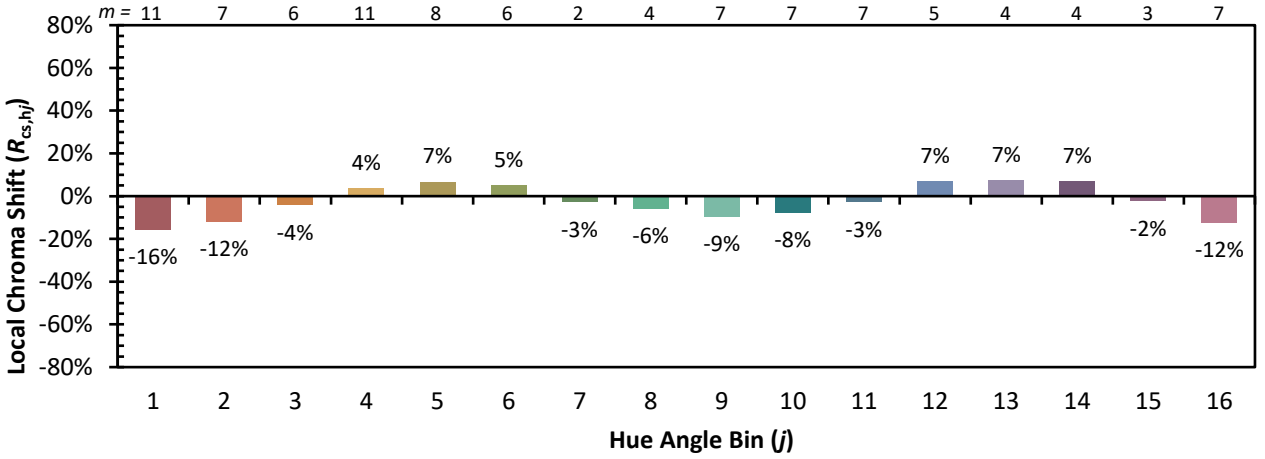
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
CES25 = 72	CES50 = 90	CES75 = 75	

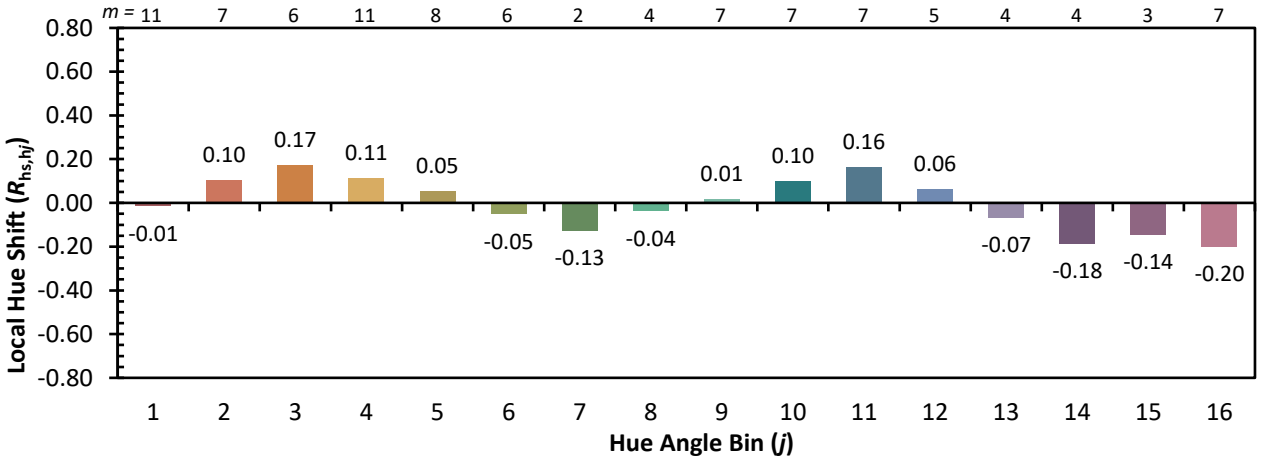


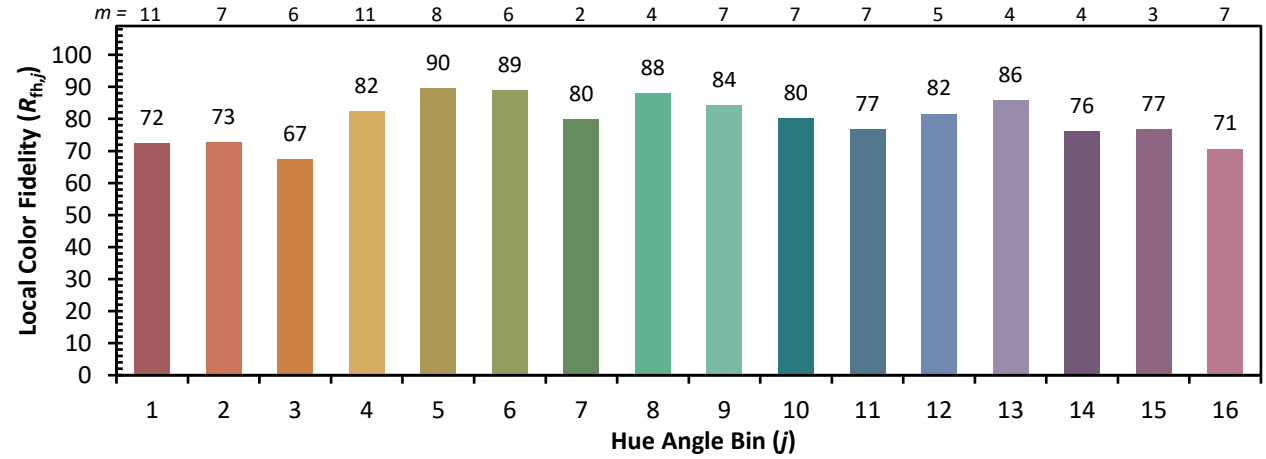
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Color Rendition by Hue-Angle Bin



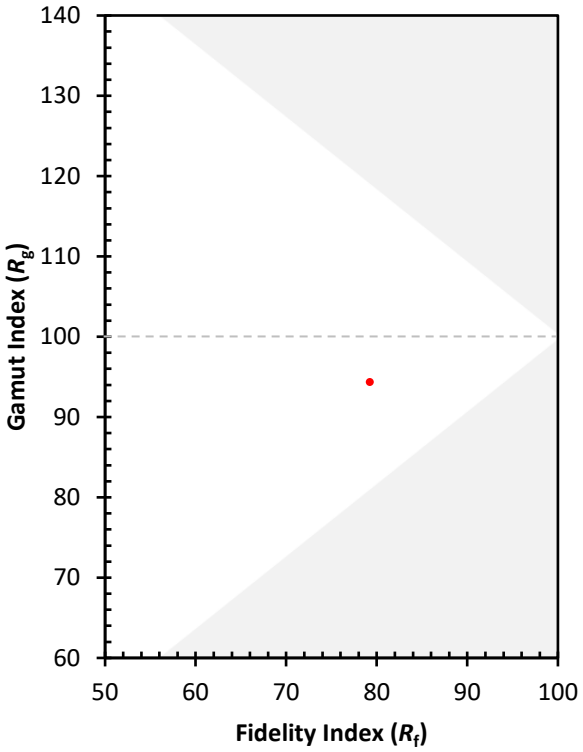


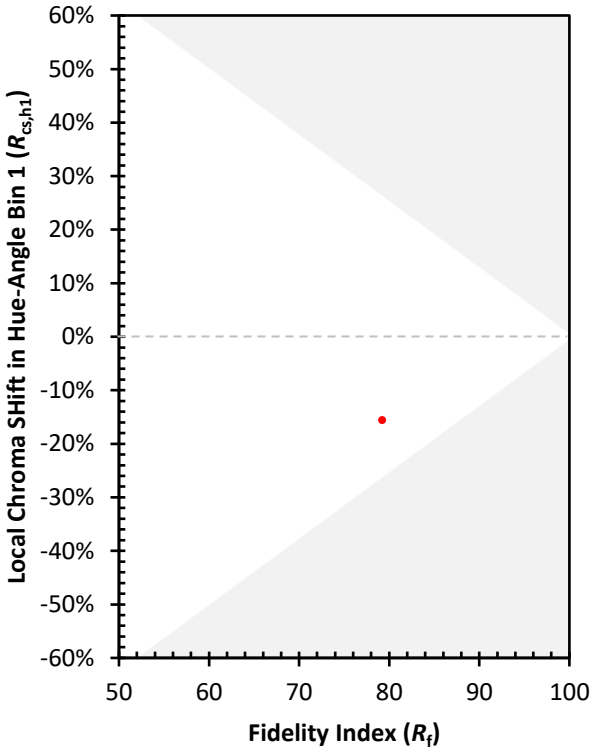


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Measure Comparisons





(END OF REPORT)