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: P1046251

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

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046251
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-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5593.4 lumens
Efficiency:	N/A
Efficacy:	142.0 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

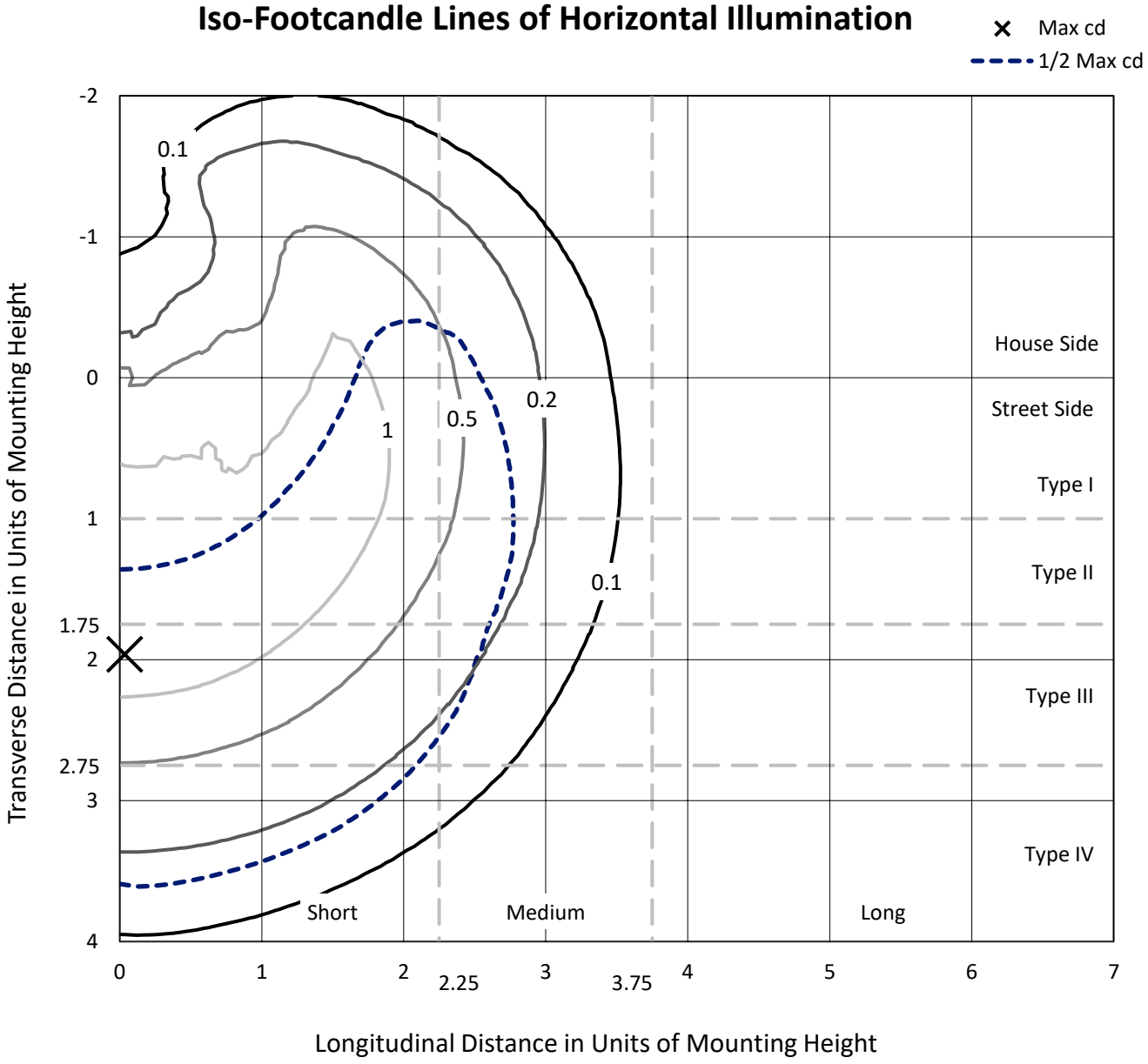


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Iso-Footcandle Lines of Horizontal Illumination



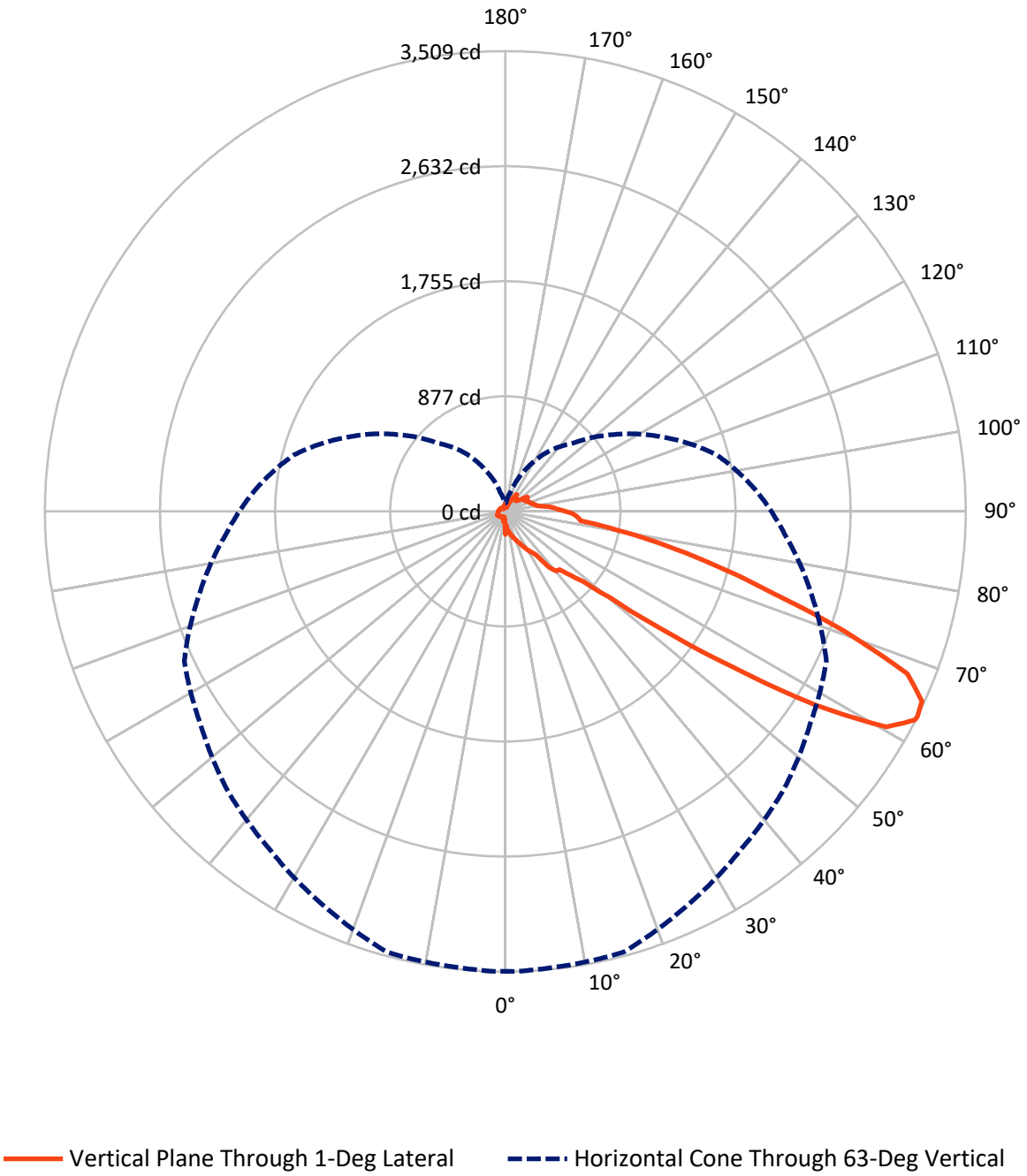
Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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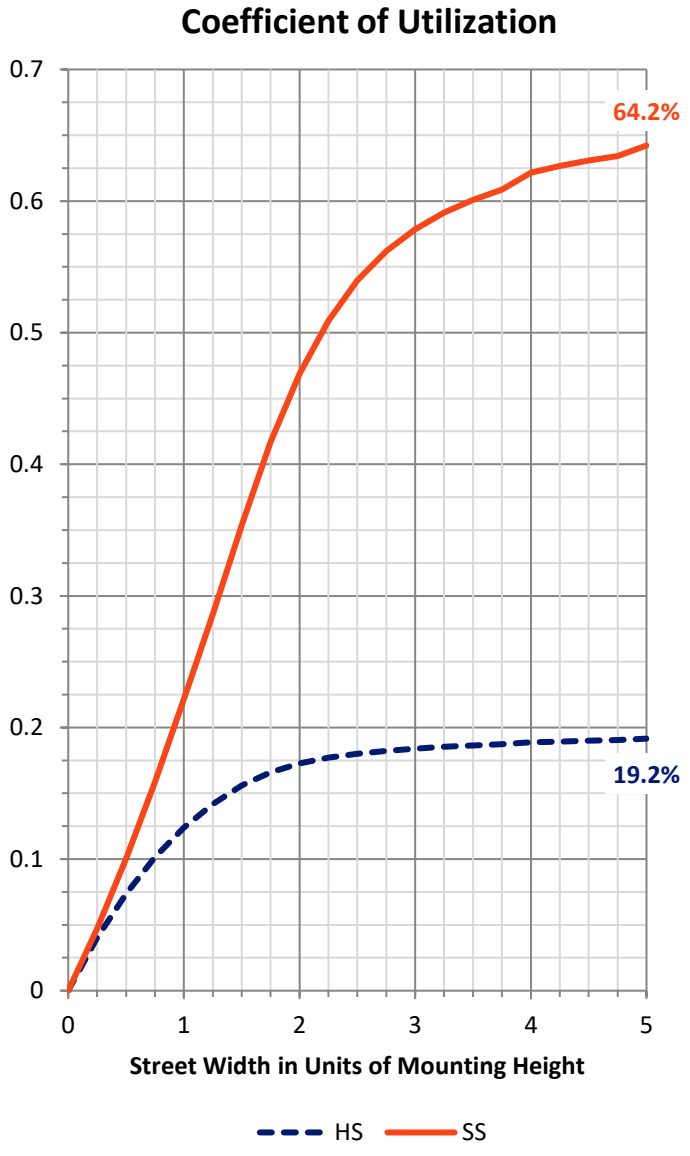
REPORT NUMBER: P1046251
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1107.5	221.8	1329.3
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	3751.9	512.2	4264.1
	% Fixture	67.1	9.2	76.2
Total	Lumens	4859.4	734.0	5593.4
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.2
10°-20°	36.8	0.7
20°-30°	81.1	1.5
30°-40°	166.1	3.0
40°-50°	335.4	6.0
50°-60°	1082.7	19.4
60°-70°	1783.7	31.9
70°-80°	983.3	17.6
80°-90°	379.9	6.8
90°-100°	227.8	4.1
100°-110°	145.1	2.6
110°-120°	110.9	2.0
120°-130°	94.7	1.7
130°-140°	63.5	1.1
140°-150°	54.1	1.0
150°-160°	24.6	0.4
160°-170°	10.0	0.2
170°-180°	3.4	0.1
0°-90°	4859.4	86.9
0°-180°	5593.4	100.0



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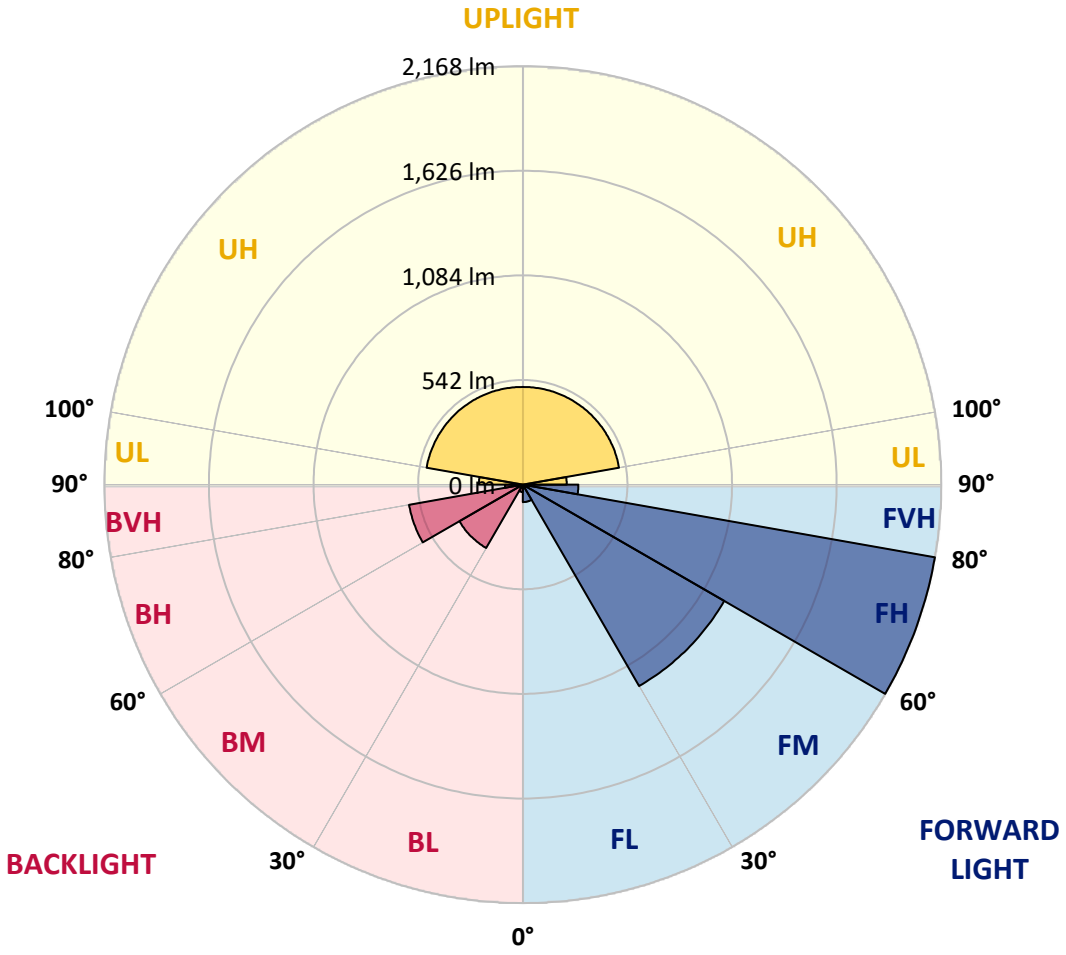
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	90.6	1.6			
FM	(30°-60°)	1205.0	21.5			
FH	(60°-80°)	2168.5	38.8			G2/5000
FVH	(80°-90°)	287.8	5.1			G3/500
BL	(0°-30°)	37.8	0.7	B0/110		
BM	(30°-60°)	379.1	6.8	B1/1000		
BH	(60°-80°)	598.5	10.7	B2/1000		G2/1000
BVH	(80°-90°)	92.0	1.6			G1/100
UL	(90°-100°)	227.8	4.1		U3/500	
UH	(100°-180°)	506.3	9.1		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°	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1
2.5°	109.4	108.2	113.4	129.3	146.8	152.4	140.9	136.5	149.2	178.7	181.8
5°	126.1	128.1	126.9	128.9	130.5	142.8	154.0	142.4	115.4	94.3	95.9
7.5°	148.8	148.4	148.4	146.8	138.9	126.1	122.6	131.7	132.1	110.6	93.9
10°	158.8	158.4	158.4	156.8	155.2	156.4	152.4	135.7	122.2	113.4	107.8
12.5°	179.8	179.1	178.7	177.9	175.1	171.9	169.1	169.9	158.4	136.5	122.2
15°	197.4	196.6	197.4	198.1	196.2	190.6	182.6	171.5	161.1	152.0	139.3
17.5°	216.5	216.1	215.7	214.9	212.1	204.5	195.0	184.6	173.1	160.3	148.4
20°	234.8	234.0	234.4	234.8	233.6	224.4	214.9	202.1	189.8	177.5	163.5
22.5°	256.6	256.6	255.4	255.4	254.3	248.7	236.7	222.0	209.3	193.8	178.3
25°	284.9	283.7	283.7	282.5	277.7	271.8	263.4	246.7	231.6	216.8	196.2
27.5°	312.7	311.5	311.5	311.1	305.2	297.2	283.3	267.4	253.1	234.4	209.3
30°	344.6	343.8	344.2	339.8	335.0	323.9	306.4	288.1	269.4	247.5	223.2
32.5°	376.8	374.4	374.0	369.2	362.9	349.3	329.9	312.3	292.8	267.4	247.1
35°	414.6	409.4	415.0	413.8	413.0	398.7	376.4	356.1	333.0	310.0	288.1
37.5°	539.5	541.9	540.7	524.8	512.1	492.6	482.6	458.8	426.9	398.7	357.3
40°	598.4	597.6	595.6	578.1	566.6	546.3	530.4	512.5	493.8	449.6	398.3
42.5°	611.2	606.8	610.0	626.3	641.4	627.9	577.3	519.6	493.4	462.3	435.7
45°	704.3	693.1	697.9	702.3	687.6	668.1	646.2	608.8	564.6	520.0	471.1
47.5°	803.7	797.8	797.4	795.8	797.4	778.7	749.6	715.0	652.5	604.4	549.9
50°	1046.1	1038.1	1040.5	1042.5	1034.1	1015.0	983.6	960.9	886.1	793.8	723.0
52.5°	1490.5	1485.7	1474.6	1475.4	1400.2	1396.2	1353.6	1333.3	1223.1	1117.7	974.8
55°	2039.2	2070.2	2036.0	2029.2	1998.2	1970.3	1863.7	1775.4	1617.4	1465.8	1298.3
57.5°	2782.4	2787.6	2744.2	2745.4	2635.2	2565.2	2466.9	2331.6	2096.5	1877.6	1689.8
60°	3324.0	3337.1	3316.8	3274.6	3061.4	2936.0	2827.8	2721.2	2541.7	2216.6	1955.2
62.5°	3500.2	3504.2	3491.5	3469.2	3281.0	3121.0	2981.8	2827.0	2689.3	2396.5	2133.9
63°	3506.6	3509.4	3499.4	3480.3	3305.7	3139.7	3000.5	2835.0	2700.1	2412.4	2144.6
65°	3489.5	3490.7	3486.3	3460.8	3321.2	3145.7	2992.5	2829.4	2705.7	2418.8	2144.6
67.5°	3335.5	3305.3	3318.0	3275.0	3158.8	2984.2	2837.7	2671.4	2560.0	2282.7	2020.1
70°	2744.2	2746.2	2744.2	2720.8	2687.7	2549.7	2378.6	2229.0	2088.1	1870.5	1664.4
72.5°	2123.1	2131.5	2113.2	2126.7	2100.1	1985.9	1875.3	1723.7	1624.6	1440.0	1258.1
75°	1644.5	1661.6	1667.2	1628.6	1605.5	1581.2	1520.7	1411.7	1312.6	1169.8	1011.0
77.5°	1242.6	1245.8	1250.6	1224.3	1194.1	1203.6	1194.9	1143.1	1060.0	954.9	828.8
80°	858.6	867.8	883.3	868.2	871.8	866.2	865.0	823.6	763.6	697.5	629.9
82.5°	576.9	576.5	580.5	604.8	627.1	626.3	590.9	532.8	502.1	483.0	444.8
85°	552.3	552.3	557.8	540.3	529.2	518.1	515.7	495.8	472.3	429.3	376.4
87.5°	514.9	513.7	515.3	500.1	485.4	481.8	478.3	461.2	450.8	413.4	364.9
90°	440.5	443.6	443.6	442.5	433.3	429.7	415.4	401.1	394.7	360.9	322.7
92.5°	388.7	388.7	393.1	385.6	375.6	381.2	356.5	337.8	329.1	306.4	276.1
95°	351.3	350.1	355.7	345.0	337.8	327.5	317.1	297.6	291.3	271.8	241.1
97.5°	280.5	279.3	282.5	277.3	266.2	261.4	250.3	234.8	228.8	210.5	191.8
100°	241.5	241.1	242.3	239.5	233.2	227.2	217.6	205.3	199.7	184.6	167.9
102.5°	229.2	228.0	228.4	228.8	219.6	214.1	204.9	195.4	189.8	177.5	159.2
105°	218.0	217.2	216.5	216.5	206.1	200.5	194.6	188.2	183.4	169.9	152.4
107.5°	207.7	206.5	203.7	203.3	196.6	190.6	183.4	177.9	173.1	160.7	144.0

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	196.2	*195.8*	194.2	194.6	190.2	181.0	175.1	168.3	162.3	151.6	136.9
112.5°	190.2	*190.2*	189.0	191.0	174.3	165.1	158.8	152.8	148.8	138.5	127.3
115°	183.8	*180.6*	179.4	183.4	164.3	151.6	145.2	138.9	134.9	124.5	115.4
117.5°	170.3	*169.5*	169.9	173.1	167.5	153.6	143.2	135.3	131.3	123.7	115.4
120°	194.2	*193.4*	188.6	187.8	178.3	167.1	160.3	156.0	150.0	137.7	121.8
122.5°	202.9	*201.3*	193.8	196.2	183.4	177.9	175.1	173.5	167.9	151.6	127.3
125°	176.7	*174.3*	172.3	173.1	165.9	158.8	156.0	153.6	148.0	138.9	121.4
127.5°	141.6	*142.8*	141.3	136.9	135.7	124.9	121.4	118.6	113.4	105.8	103.1
130°	132.9	*132.1*	131.7	130.9	130.1	122.2	116.6	109.8	105.4	99.1	91.5
132.5°	118.2	*119.0*	120.2	126.9	133.3	126.5	112.2	101.9	99.1	100.3	97.1
135°	112.2	*112.6*	112.6	117.8	123.3	116.6	105.8	95.9	94.7	99.1	95.1
137.5°	115.0	*117.0*	116.6	115.4	112.2	107.4	105.0	99.5	96.3	93.5	86.7
140°	121.4	*123.7*	122.6	115.8	113.4	111.0	112.6	110.6	102.7	93.1	83.2
142.5°	120.6	*122.6*	121.8	121.0	125.3	119.8	112.2	104.6	98.3	93.1	86.7
145°	156.4	*155.6*	152.4	152.4	147.2	138.9	133.7	125.7	118.2	111.4	101.1
147.5°	144.4	*146.4*	147.2	143.6	141.3	135.7	134.9	130.5	128.1	122.2	111.4
150°	114.6	*116.2*	113.8	111.0	109.8	110.2	108.2	105.0	102.7	98.3	93.5
152.5°	79.2	*80.0*	79.2	76.8	76.0	74.8	75.2	72.8	71.2	68.4	64.1
155°	72.0	*72.4*	72.8	68.8	68.0	68.4	68.8	67.2	64.1	61.7	56.5
157.5°	56.5	*55.7*	55.7	54.9	55.3	54.1	54.1	53.7	52.5	50.9	49.3
160°	45.0	*45.4*	45.4	45.4	46.2	45.4	45.4	44.2	44.2	43.4	42.6
162.5°	38.2	*38.2*	38.2	38.2	37.8	37.8	38.6	38.2	38.2	38.6	39.4
165°	32.2	*32.6*	32.6	32.6	32.6	32.6	33.4	33.4	34.2	35.8	37.8
167.5°	30.2	*29.8*	29.8	30.2	30.2	31.0	31.0	32.6	35.4	38.2	38.2
170°	28.6	*28.6*	28.6	29.0	29.0	29.4	30.6	33.4	36.6	37.8	36.2
172.5°	29.8	*29.4*	29.4	29.8	29.8	31.0	32.6	35.0	36.2	36.2	34.6
175°	30.6	*30.2*	30.2	30.6	30.6	31.4	33.0	34.6	35.4	35.8	35.8
177.5°	29.8	*29.8*	29.8	29.8	29.8	30.2	30.2	31.4	32.2	33.0	33.8
180°	28.6	*28.6*	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1
2.5°	181.8	165.9	142.4	113.8	132.5	155.6	152.4	134.5	107.4	80.8	80.8
5°	100.7	106.6	112.6	98.7	88.3	87.5	85.1	76.4	75.2	62.1	58.5
7.5°	87.9	82.4	81.2	95.9	94.7	62.5	49.3	43.8	46.2	62.5	64.5
10°	105.4	103.1	95.5	79.6	66.4	60.5	60.1	60.9	55.7	45.0	42.2
12.5°	119.0	115.0	108.2	103.5	88.3	70.4	60.5	56.1	59.3	75.2	78.8
15°	132.1	126.5	115.0	101.9	86.7	73.6	63.3	54.1	54.1	51.7	50.5
17.5°	142.4	135.3	121.4	107.0	89.9	73.6	60.1	50.9	46.6	45.8	45.8
20°	155.6	148.8	133.7	116.2	94.7	74.4	59.7	50.9	45.8	43.8	43.4
22.5°	171.9	163.1	143.6	122.9	97.5	75.2	60.5	51.3	46.2	43.4	42.6
25°	187.0	177.1	154.0	132.5	103.8	77.2	61.3	52.5	47.0	43.8	43.4
27.5°	199.3	188.6	167.1	142.4	110.6	82.0	65.3	54.9	48.1	45.0	44.2
30°	213.3	203.3	180.6	152.8	117.0	87.9	70.8	59.3	51.7	47.3	47.0
32.5°	234.0	221.6	195.4	163.5	124.5	94.3	76.4	63.3	54.1	51.7	51.7
35°	271.4	258.6	224.0	181.0	131.7	100.7	82.0	67.6	57.7	52.1	51.7
37.5°	341.4	323.9	280.5	220.8	144.0	105.8	86.7	71.2	59.7	51.7	50.5
40°	373.6	343.8	297.6	241.9	161.9	111.8	90.7	74.0	60.1	52.9	52.1
42.5°	411.8	386.7	321.5	247.1	175.1	126.5	97.5	77.2	62.5	54.5	53.7
45°	448.4	424.2	369.2	292.1	204.5	148.4	109.4	83.6	66.4	56.9	55.3
47.5°	514.9	489.4	413.0	338.2	245.1	182.6	133.3	93.5	72.0	59.3	57.3
50°	687.6	651.3	561.4	448.0	313.5	232.0	170.7	114.2	79.6	60.5	58.1
52.5°	910.4	855.1	757.6	612.8	448.4	328.3	239.1	165.9	92.7	60.9	57.3
55°	1271.7	1203.6	1046.8	835.2	627.9	489.8	362.1	255.0	136.5	63.7	56.9
57.5°	1614.2	1563.7	1426.8	1142.7	832.8	622.3	476.3	358.9	185.8	70.0	59.7
60°	1866.1	1769.8	1609.9	1318.6	1005.9	722.2	530.0	373.2	191.0	71.2	61.7
62.5°	2016.5	1897.5	1660.4	1344.1	1030.5	742.9	551.5	343.4	154.4	69.6	64.5
63°	*2027.6*	*1912.3*	*1666.8*	*1335.3*	*1022.6*	*737.3*	*548.3*	*336.2*	*150.0*	*69.2*	*65.3*
65°	2013.7	1913.5	1644.5	1289.6	954.9	688.0	510.5	302.0	121.8	68.0	66.0
67.5°	1875.3	1793.7	1527.9	1165.8	850.3	594.0	422.6	230.4	95.1	64.9	64.1
70°	1569.7	1476.2	1235.0	963.7	674.0	479.9	337.0	178.7	78.4	61.7	60.9
72.5°	1168.2	1129.2	938.2	733.3	518.5	370.0	253.1	135.7	69.6	59.3	58.5
75°	944.6	886.1	744.1	579.3	394.3	274.9	187.8	101.9	63.7	57.3	56.5
77.5°	781.1	742.1	619.1	437.3	281.3	198.1	138.1	80.8	60.9	56.1	55.7
80°	604.8	580.5	483.0	323.5	201.3	147.6	109.4	74.0	59.7	55.7	55.3
82.5°	426.5	419.0	351.7	241.9	171.1	132.1	101.9	72.8	60.1	56.5	55.7
85°	353.3	337.0	296.0	230.0	162.3	126.5	98.3	71.6	60.1	56.1	55.7
87.5°	344.2	330.6	286.5	215.3	148.8	117.0	92.3	68.8	58.1	54.5	54.1
90°	311.1	297.6	256.6	192.2	140.1	109.8	86.3	65.3	55.7	52.9	52.1
92.5°	265.4	253.1	222.8	174.7	134.1	105.4	84.0	64.1	55.3	52.1	51.7
95°	230.4	220.0	195.4	160.7	123.7	98.3	79.6	61.7	53.7	50.9	50.5
97.5°	183.4	177.1	158.0	130.9	104.6	85.9	71.2	58.1	51.7	49.3	48.9
100°	161.5	156.0	140.9	118.6	97.1	81.2	68.8	56.9	50.1	48.1	47.7
102.5°	151.6	147.2	133.7	111.4	91.1	77.2	65.7	54.9	48.9	47.0	46.6
105°	144.0	140.1	127.7	106.2	85.9	72.0	61.7	52.5	47.0	45.4	45.0
107.5°	134.9	131.7	119.8	98.7	80.8	67.6	58.5	50.5	45.8	44.2	44.2

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

Scaled Data Report

REPORT NUMBER: P1046251
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	127.3	124.9	112.6	94.3	77.2	64.9	56.5	49.7	45.4	43.8	43.8
112.5°	119.4	116.6	105.0	88.7	74.0	62.9	54.9	48.5	44.6	43.0	43.0
115°	110.6	107.8	96.7	82.4	70.0	59.7	52.5	46.6	43.0	41.8	41.8
117.5°	112.2	105.0	91.5	78.8	66.8	57.3	50.9	45.8	41.8	41.0	40.6
120°	113.8	104.6	94.7	82.8	68.8	56.1	49.7	44.6	41.4	40.2	40.2
122.5°	111.0	112.2	103.5	85.1	65.7	54.9	49.3	45.0	41.8	40.6	41.0
125°	108.6	111.4	101.1	80.4	63.3	54.5	49.3	46.2	43.4	42.2	42.2
127.5°	99.9	100.3	85.9	72.0	61.7	53.3	48.9	46.6	44.2	42.6	41.8
130°	87.9	87.1	80.4	70.0	58.1	51.3	47.3	46.2	43.8	41.0	40.6
132.5°	94.3	91.9	80.8	66.4	54.9	49.3	47.0	45.4	41.4	38.2	37.8
135°	89.5	87.1	75.6	62.1	53.3	50.1	48.9	45.0	39.0	36.6	36.2
137.5°	81.6	77.6	68.0	59.3	54.1	52.1	49.3	44.2	38.2	35.4	35.0
140°	78.4	74.4	66.8	60.9	54.9	48.5	43.8	39.0	35.0	32.6	32.2
142.5°	82.4	79.2	71.6	60.9	51.3	44.6	40.2	37.0	33.4	29.8	29.4
145°	95.9	89.9	79.6	68.4	58.5	50.5	43.8	37.0	30.6	26.7	26.3
147.5°	106.2	101.5	90.3	77.6	63.7	50.9	41.0	32.6	27.5	25.1	24.7
150°	88.3	85.5	77.2	66.8	56.5	45.0	35.4	29.0	25.9	25.1	25.1
152.5°	61.7	59.7	56.9	50.1	42.2	35.4	30.2	27.1	25.9	25.5	25.5
155°	54.5	53.3	49.7	43.8	38.2	33.0	29.0	26.7	26.3	25.9	25.9
157.5°	47.0	46.6	44.2	39.4	35.0	31.0	28.3	27.1	26.3	25.9	25.9
160°	42.2	41.0	38.6	35.4	32.6	30.2	28.6	27.9	27.1	26.7	26.7
162.5°	39.4	38.6	35.8	33.4	31.8	31.4	31.8	31.4	29.4	28.3	27.9
165°	37.4	37.0	34.2	32.6	31.8	33.8	36.2	35.4	31.8	29.8	29.8
167.5°	37.4	36.6	33.8	32.6	34.6	37.4	39.4	39.0	35.8	33.8	32.6
170°	35.4	34.6	33.8	34.2	37.0	38.2	38.6	39.4	39.8	41.8	42.6
172.5°	34.2	34.2	35.0	36.6	39.0	39.4	38.2	38.6	42.2	46.6	47.0
175°	35.8	35.8	37.4	40.2	41.4	42.2	40.6	41.0	45.0	49.3	49.7
177.5°	34.2	34.6	35.4	35.8	35.4	34.2	33.8	35.4	34.2	33.8	35.0
180°	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6

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

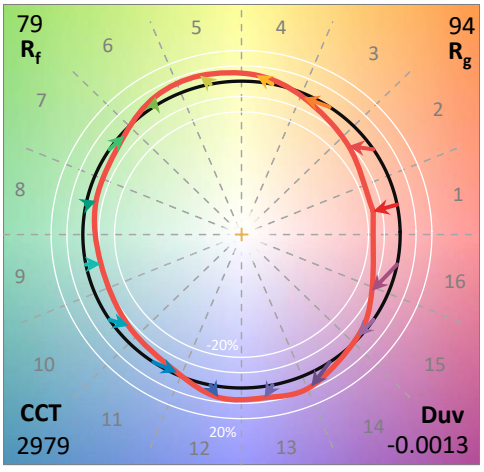
Test Information

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

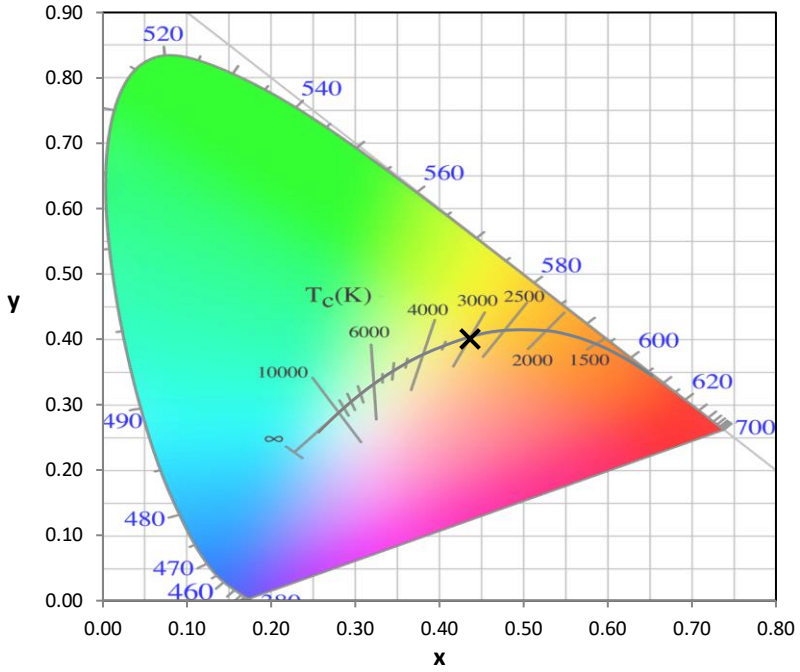
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

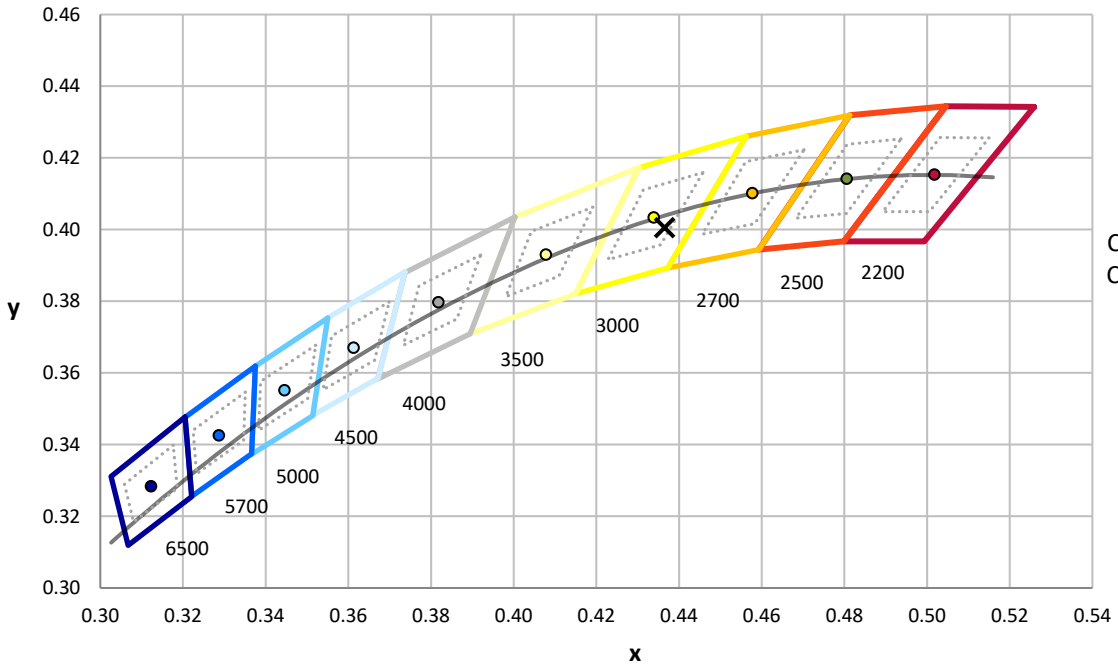
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

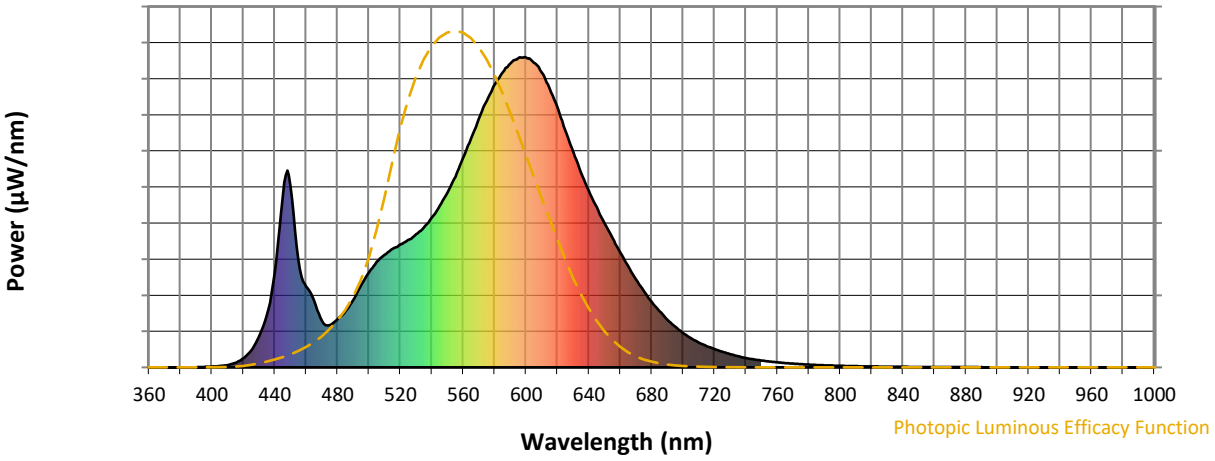


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

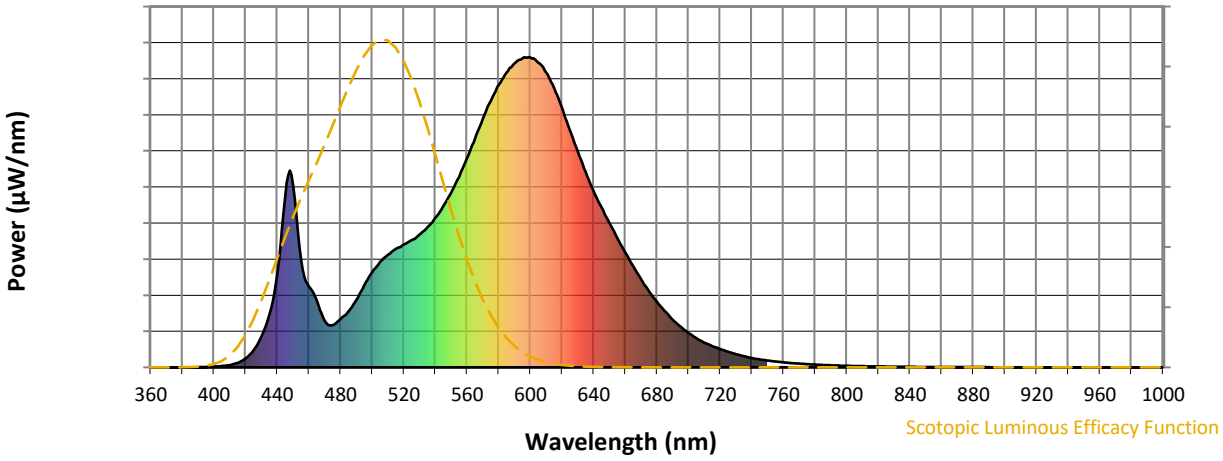


Photopic Lumens: NR

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

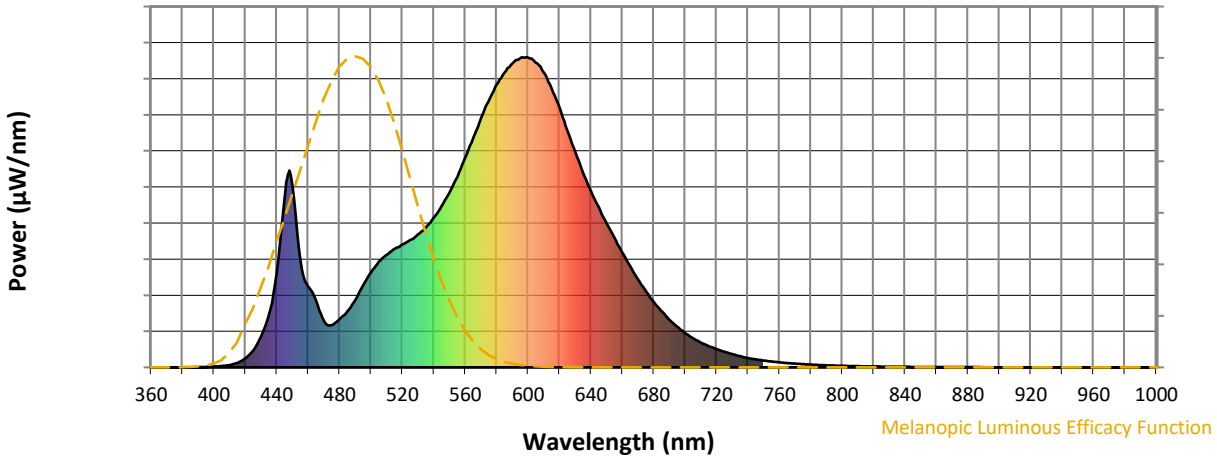


Scotopic Lumens: NR **S/P: 1.29**

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			

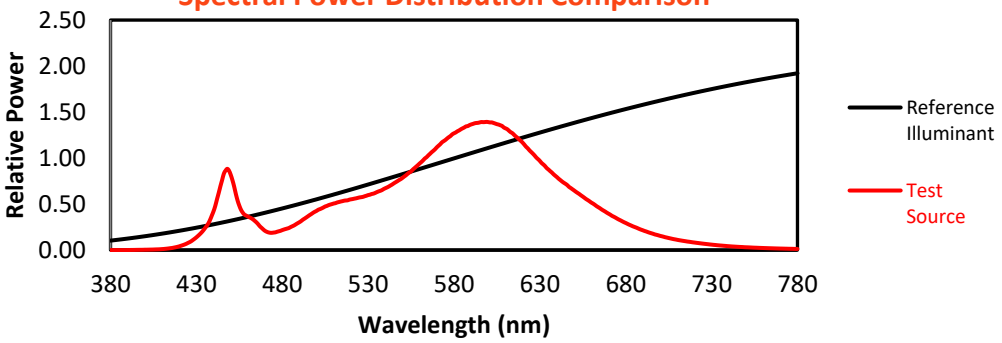
REPORT NUMBER: SP1-2501-332-9

TM-30-18

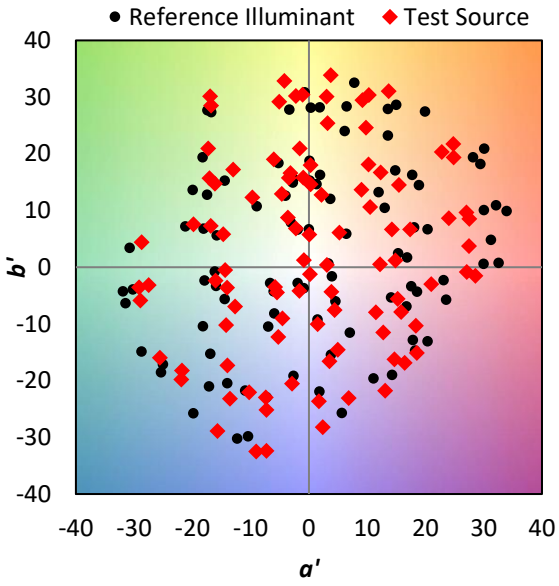
Summary

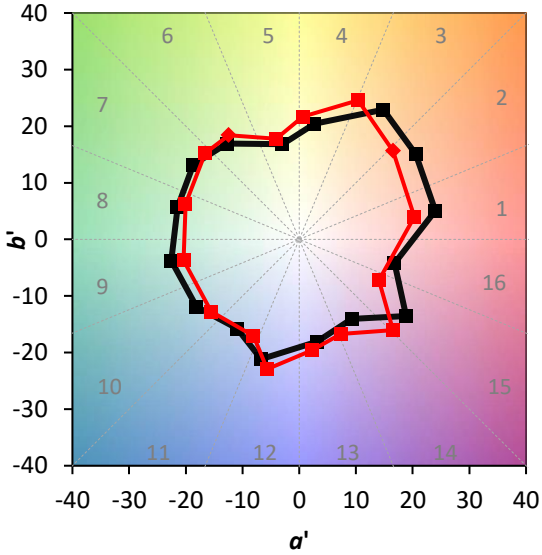
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

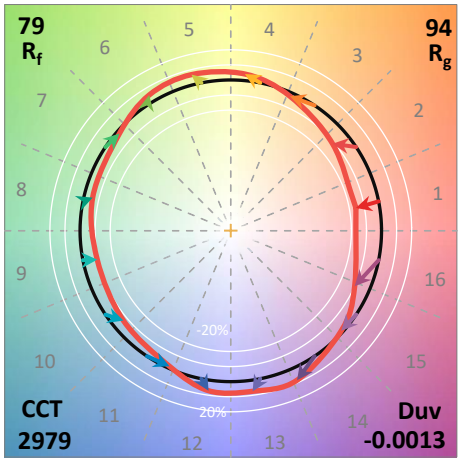
Spectral Power Distribution Comparison

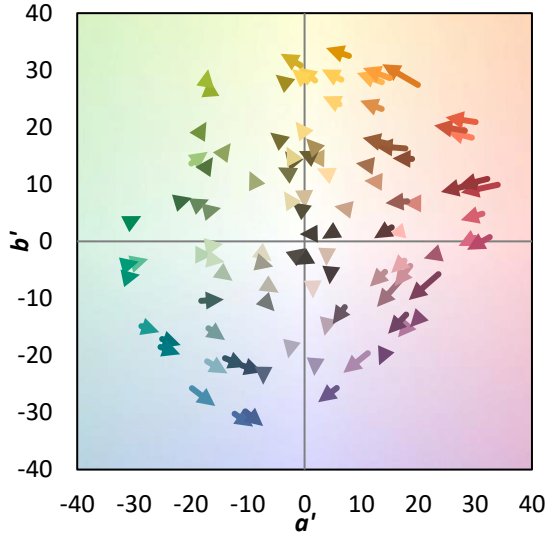


Color Vector Graphics







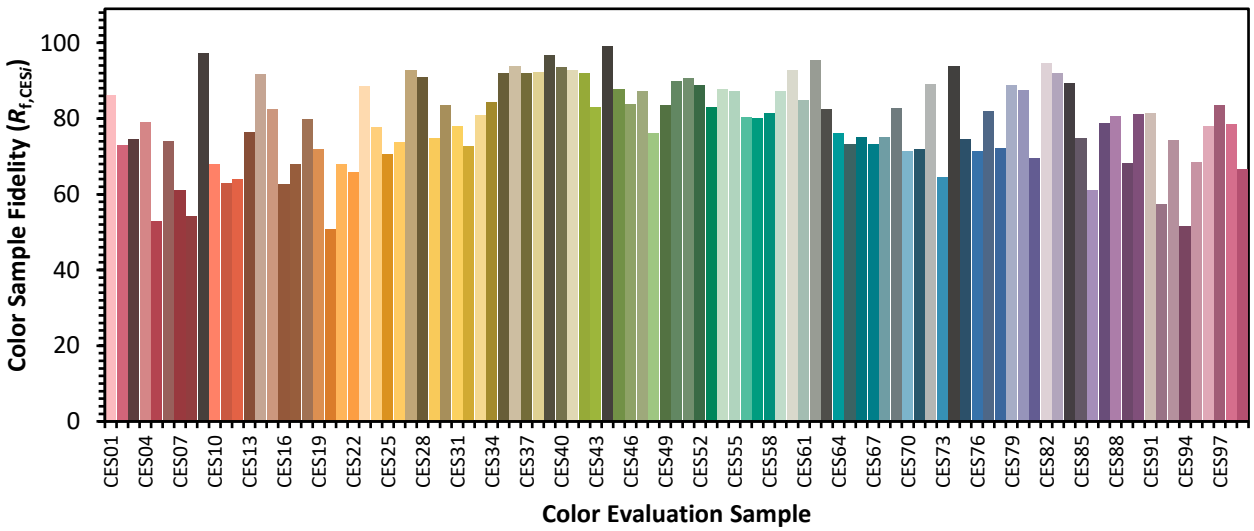


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

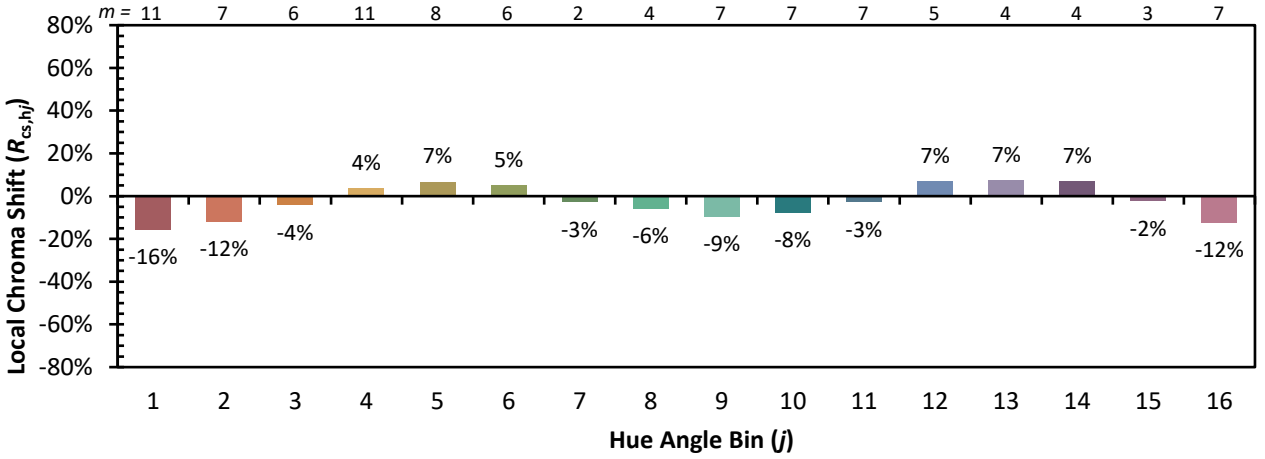
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 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	

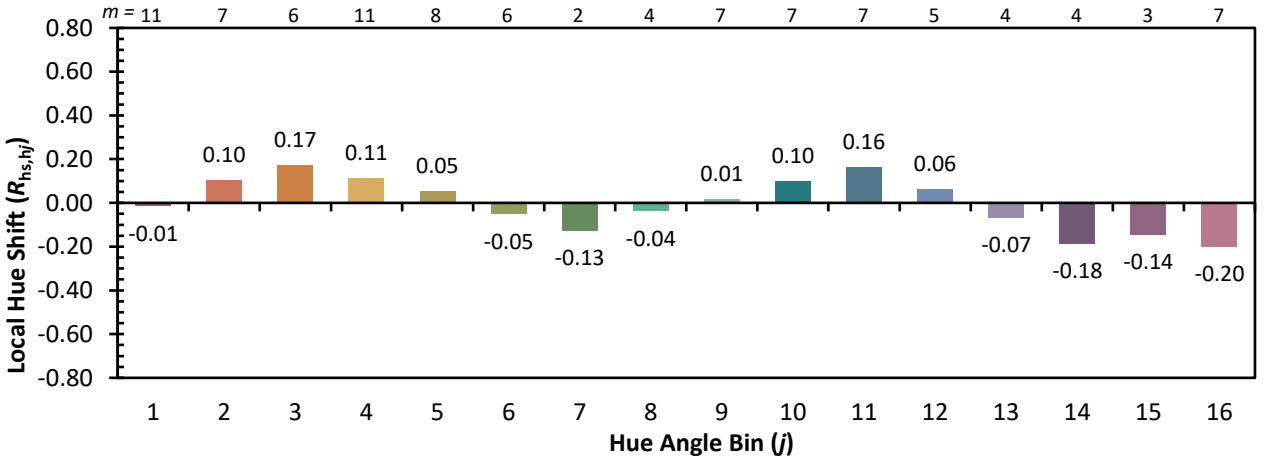


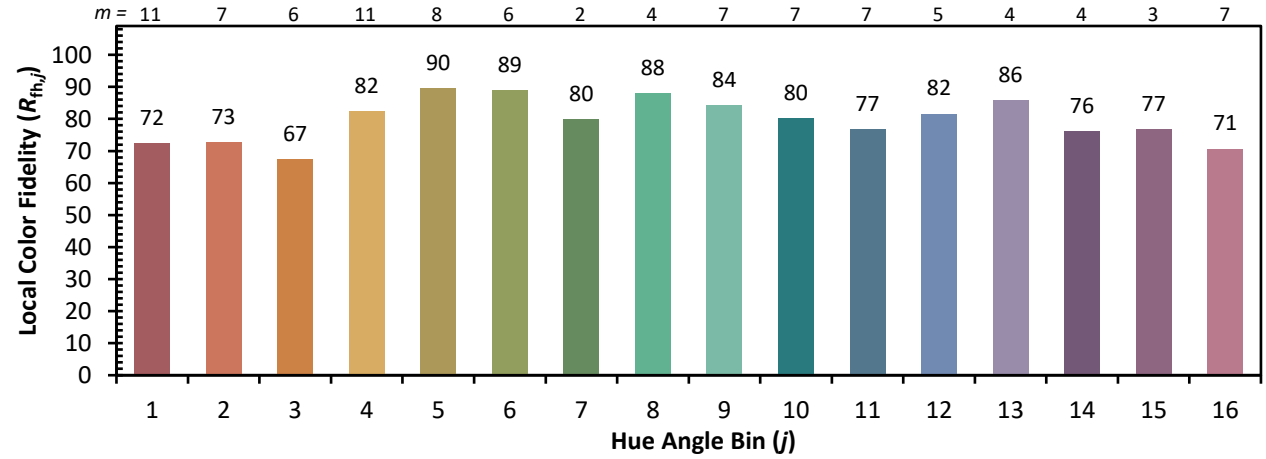
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Color Rendition by Hue-Angle Bin



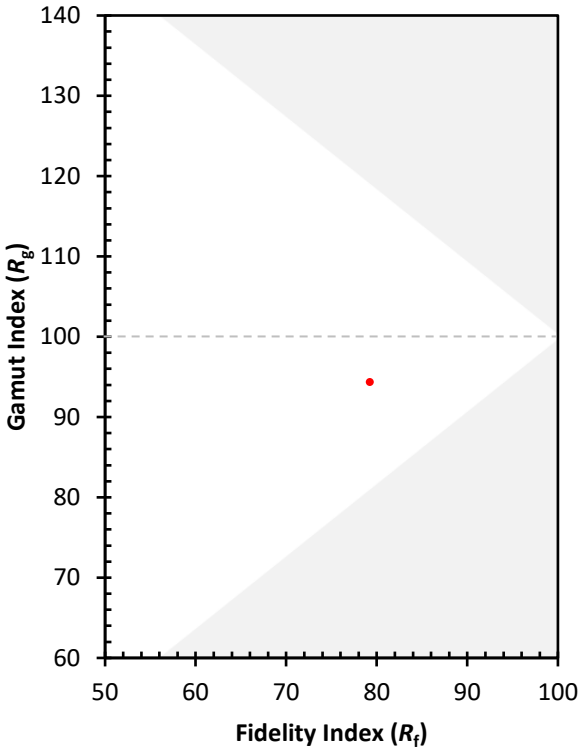


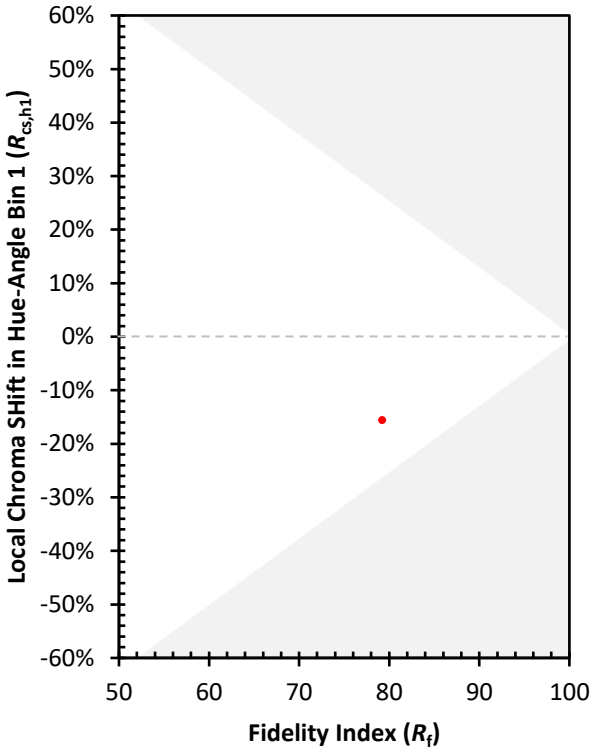


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Measure Comparisons





(END OF REPORT)