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: P1045755

Luminaire Tested: **FFX-CLB-50-730-U-FR-T5-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:	P1045755
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-730-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5179.8 lumens
Efficiency:	N/A
Efficacy:	102.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U3 - 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

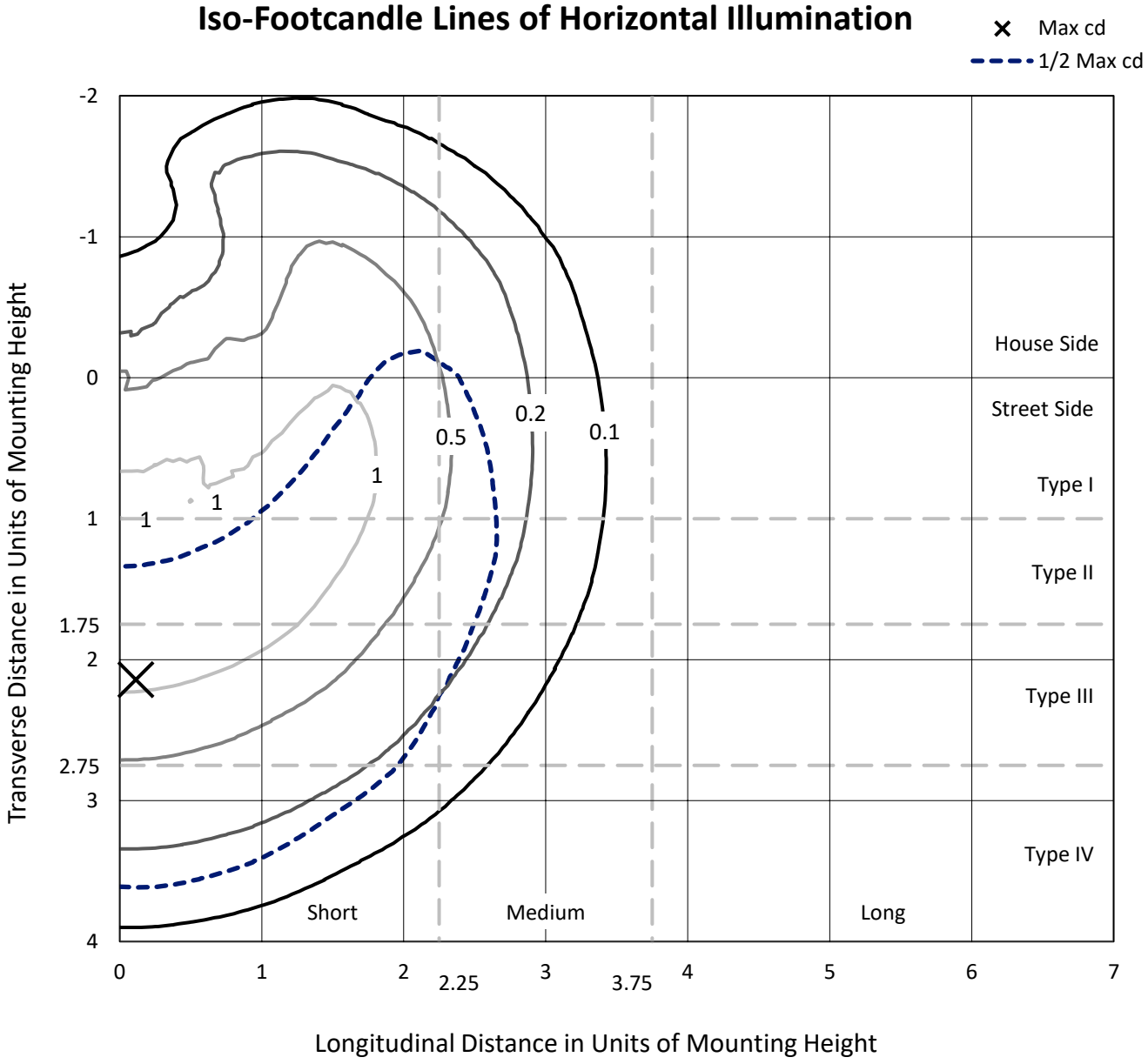


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Iso-Footcandle Lines of Horizontal Illumination



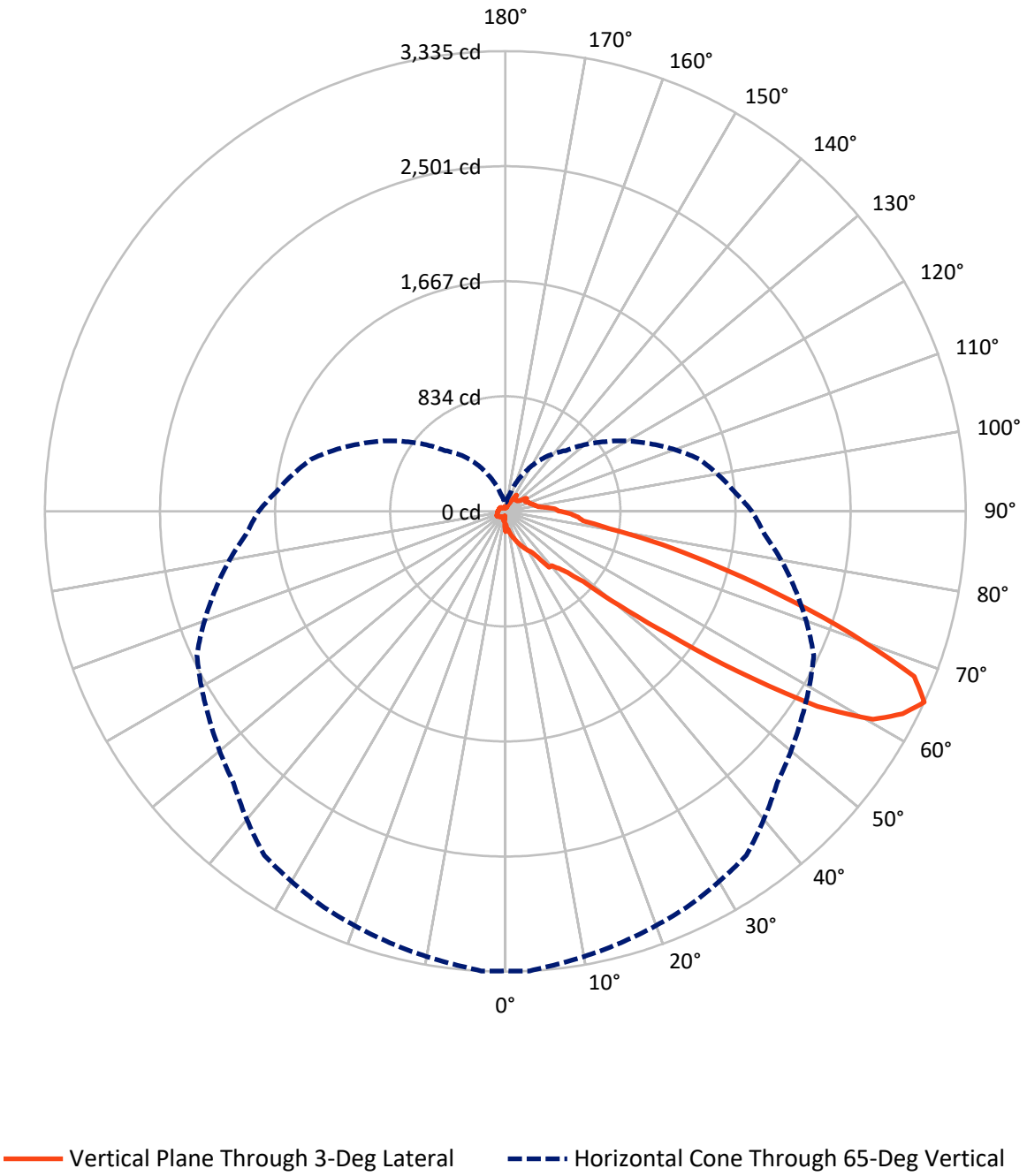
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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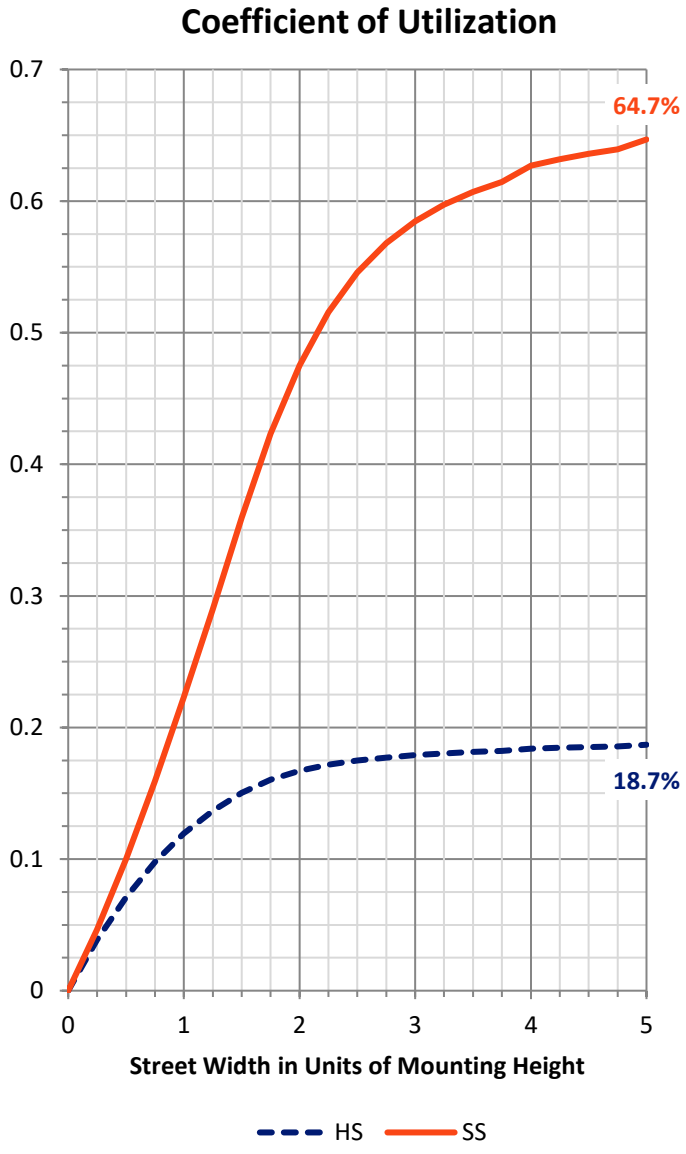
REPORT NUMBER: P1045755
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1002.1	217.9	1220.0
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	3494.5	465.3	3959.8
	% Fixture	67.5	9.0	76.4
Total	Lumens	4496.6	683.2	5179.8
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.2
10°-20°	35.3	0.7
20°-30°	78.7	1.5
30°-40°	159.2	3.1
40°-50°	319.7	6.2
50°-60°	1025.9	19.8
60°-70°	1636.4	31.6
70°-80°	890.2	17.2
80°-90°	342.0	6.6
90°-100°	203.9	3.9
100°-110°	135.3	2.6
110°-120°	107.8	2.1
120°-130°	89.9	1.7
130°-140°	61.9	1.2
140°-150°	50.0	1.0
150°-160°	22.3	0.4
160°-170°	9.1	0.2
170°-180°	3.1	0.1
0°-90°	4496.6	86.8
0°-180°	5179.8	100.0



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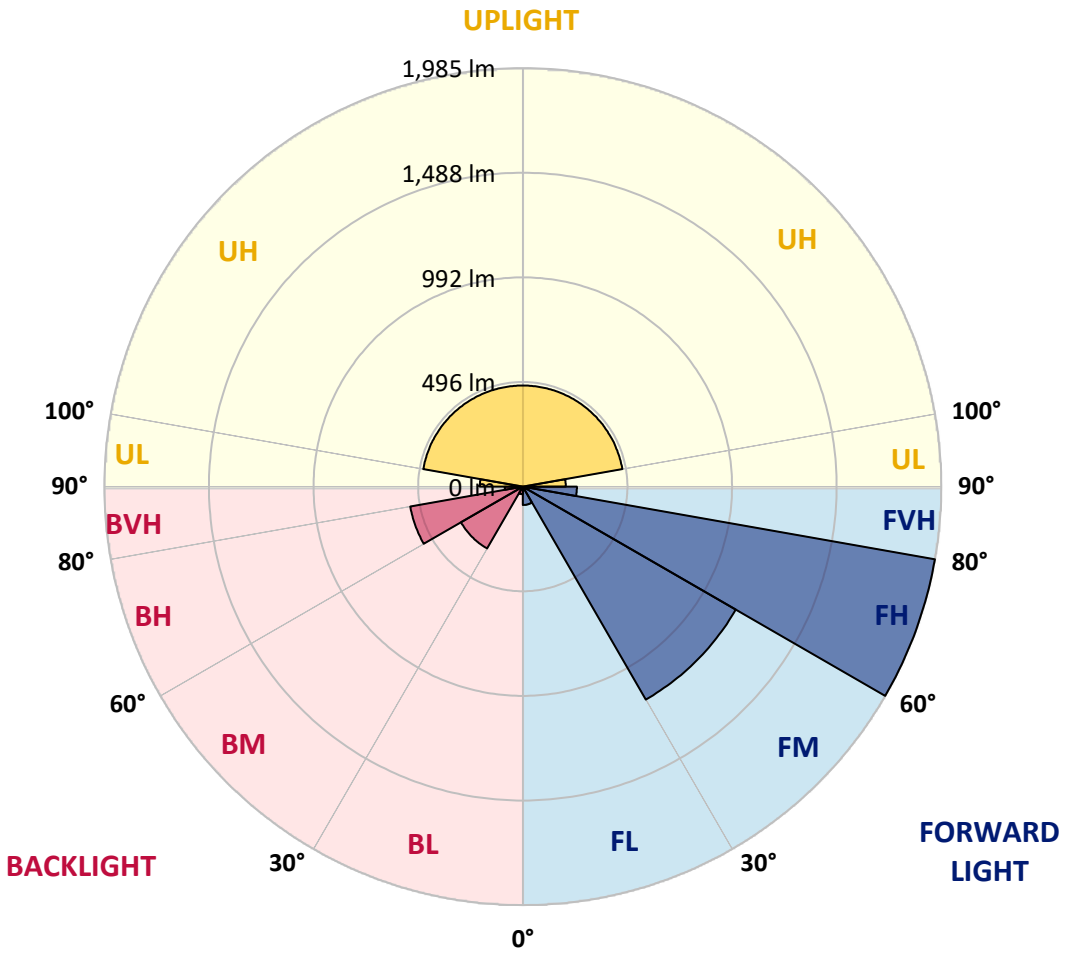
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	87.3	1.7			
FM	(30°-60°)	1166.1	22.5			
FH	(60°-80°)	1984.6	38.3			G2/5000
FVH	(80°-90°)	256.4	5.0			G3/500
BL	(0°-30°)	35.9	0.7	B0/110		
BM	(30°-60°)	338.6	6.5	B1/1000		
BH	(60°-80°)	541.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	85.6	1.7			G1/100
UL	(90°-100°)	203.9	3.9		U3/500	
UH	(100°-180°)	479.3	9.3		U3/500	

BUG Rating: B2-U3-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	94.6	94.0	95.8	104.1	125.6	132.7	126.8	116.6	114.9	125.6	133.9
5°	129.1	128.0	126.8	118.4	110.1	114.3	126.2	129.1	117.2	95.2	80.9
7.5°	130.9	129.7	130.3	130.3	128.5	120.8	111.9	116.0	126.2	112.5	88.7
10°	145.8	145.2	145.2	144.6	142.8	140.4	139.9	130.9	115.5	103.6	98.8
12.5°	170.2	170.2	169.6	169.0	167.2	163.1	157.7	150.6	145.8	131.5	116.6
15°	189.8	188.1	189.2	187.5	184.5	182.1	175.6	167.8	153.5	144.0	130.9
17.5°	208.9	208.9	209.5	206.5	202.9	201.2	194.0	183.9	170.2	153.5	141.0
20°	232.7	230.9	230.9	227.9	223.8	217.8	211.3	202.3	191.0	168.4	151.8
22.5°	255.3	255.9	255.9	251.1	244.6	239.2	230.3	219.6	208.9	185.7	164.3
25°	280.9	280.3	279.7	279.1	272.6	263.0	251.7	240.4	232.7	210.1	180.3
27.5°	304.7	303.5	302.9	305.9	299.9	290.4	273.8	260.1	251.7	228.5	195.2
30°	330.9	330.3	330.3	331.5	329.1	314.2	296.4	280.3	268.4	245.2	209.5
32.5°	354.1	352.9	353.5	358.3	357.7	338.6	322.6	302.9	288.0	269.6	230.3
35°	411.2	408.9	412.4	419.6	424.9	404.7	382.7	352.3	329.7	310.7	270.2
37.5°	514.2	514.8	516.0	506.5	486.2	471.3	460.6	436.2	408.3	376.1	328.5
40°	518.4	517.8	520.7	535.0	543.3	517.8	492.8	464.2	457.1	429.7	369.0
42.5°	566.6	563.0	566.0	579.7	591.0	575.5	553.5	505.3	479.1	454.7	404.7
45°	635.6	631.4	636.8	639.2	636.8	620.1	623.7	584.4	560.0	510.6	441.0
47.5°	740.9	760.0	762.9	763.5	787.3	764.7	750.5	713.0	657.6	598.7	519.5
50°	1040.3	1071.2	1060.5	1050.4	1052.2	1034.9	1015.3	963.5	889.1	789.7	676.7
52.5°	1484.8	1472.9	1474.7	1481.3	1497.9	1421.2	1387.8	1309.9	1189.7	1070.6	907.6
55°	2028.8	2049.0	2047.8	2069.2	2066.3	1983.5	1878.2	1747.3	1572.3	1397.9	1205.1
57.5°	2701.3	2665.6	2641.8	2602.5	2568.6	2456.1	2386.4	2244.8	2013.3	1751.5	1503.9
60°	3078.6	3058.9	3053.0	2998.8	2952.4	2814.3	2670.9	2517.4	2336.5	2027.0	1746.1
62.5°	3220.2	3229.7	3221.4	3186.3	3155.3	3034.5	2793.5	2626.3	2464.4	2166.8	1871.1
65°	3329.1	3334.5	3315.4	3235.7	3151.2	3042.9	2783.4	2618.5	2465.0	2172.2	1883.0
67.5°	3195.8	3194.6	3179.7	3064.9	2922.1	2814.9	2579.3	2401.9	2271.6	2027.0	1747.9
70°	2653.7	2657.2	2660.2	2575.7	2419.2	2339.4	2100.8	1948.4	1836.0	1624.7	1424.1
72.5°	2077.6	2088.3	2093.1	2027.0	1910.9	1828.8	1669.3	1555.1	1450.3	1282.5	1124.8
75°	1562.8	1573.5	1570.5	1529.5	1447.9	1425.3	1348.0	1250.4	1162.9	1032.5	899.2
77.5°	1172.4	1163.5	1161.1	1121.2	1040.9	1046.8	1024.8	968.9	901.0	824.2	731.4
80°	776.6	768.9	753.4	767.1	760.6	741.5	705.2	676.7	649.9	604.1	553.5
82.5°	571.3	568.9	566.0	557.0	551.1	546.3	530.3	484.4	452.3	426.1	395.8
85°	534.4	527.3	528.5	513.0	494.5	477.9	465.4	445.7	420.8	379.7	335.6
87.5°	466.6	466.6	463.0	452.3	433.8	429.7	420.8	407.1	392.2	360.6	321.4
90°	388.0	385.6	385.6	385.0	380.9	377.9	360.6	348.1	341.6	310.1	282.7
92.5°	358.3	357.1	354.7	351.7	339.8	337.4	320.2	304.1	289.8	270.2	248.8
95°	291.0	293.4	288.0	287.4	281.5	277.9	264.2	256.5	247.0	230.9	211.3
97.5°	245.8	242.2	242.8	237.5	231.5	229.1	220.8	209.5	200.6	188.1	173.8
100°	225.6	225.0	223.8	219.6	211.3	205.9	197.0	186.3	177.3	166.0	154.1
102.5°	212.5	211.9	211.3	207.7	198.2	195.2	186.9	178.5	170.8	160.7	145.2
105°	199.4	198.8	197.6	193.4	187.5	184.5	176.8	172.0	164.3	155.3	140.4
107.5°	187.5	187.5	186.9	182.1	178.5	176.2	168.4	164.3	155.9	148.2	133.9
110°	181.5	181.5	180.9	177.3	170.2	166.6	159.5	154.1	146.4	138.7	127.4

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	175.0	*175.6*	175.6	176.8	159.5	152.9	147.0	142.8	136.3	129.1	119.6
115°	160.1	*160.7*	160.1	166.0	160.1	151.2	147.6	140.4	132.1	120.8	110.7
117.5°	161.3	*161.3*	162.5	165.4	162.5	154.1	146.4	137.5	130.3	119.0	110.1
120°	182.7	*181.5*	181.5	175.6	174.4	166.6	161.3	151.8	139.9	128.5	116.0
122.5°	175.6	*175.0*	175.6	166.0	165.4	163.7	161.9	160.1	144.6	138.1	122.0
125°	140.4	*139.3*	138.7	135.1	141.0	136.9	135.7	139.9	129.7	123.8	114.9
127.5°	125.6	*124.4*	123.8	122.6	126.2	119.0	117.8	119.0	111.3	104.1	98.8
130°	120.2	*118.4*	118.4	122.6	128.0	122.0	115.5	110.7	107.7	103.0	94.0
132.5°	113.7	*113.7*	114.3	119.6	129.1	122.6	110.7	101.2	100.0	100.6	96.4
135°	111.9	*111.3*	111.9	110.1	109.5	105.9	100.6	92.8	91.1	95.8	91.1
137.5°	114.9	*114.3*	113.7	108.9	103.6	100.6	99.4	94.6	89.9	86.9	82.1
140°	113.7	*113.7*	113.1	111.9	108.3	102.4	101.2	96.4	91.6	86.3	80.3
142.5°	115.5	*117.2*	118.4	119.6	118.4	111.9	105.3	97.6	92.2	89.3	82.7
145°	142.2	*142.2*	142.2	139.9	135.7	130.3	125.6	120.2	116.0	106.5	97.6
147.5°	117.8	*117.8*	117.2	117.8	117.8	115.5	114.9	113.1	113.7	108.9	100.0
150°	81.5	*83.3*	83.3	86.3	87.5	86.3	86.3	87.5	85.7	85.1	80.3
152.5°	66.1	*65.5*	64.3	65.5	65.5	66.1	66.1	64.9	64.3	64.3	61.3
155°	58.3	*58.3*	58.3	57.7	56.5	57.1	57.7	57.7	55.9	54.8	52.4
157.5°	46.4	*45.8*	45.8	47.0	47.0	47.0	47.0	47.0	47.0	47.6	48.2
160°	39.3	*38.1*	38.7	38.7	39.3	39.9	39.3	39.9	39.9	40.5	39.9
162.5°	32.1	*31.5*	31.5	32.1	32.7	33.3	33.9	33.9	34.5	35.7	36.3
165°	28.6	*28.6*	28.6	29.2	29.2	29.8	30.4	30.9	32.1	33.9	34.5
167.5°	26.8	*26.8*	26.8	26.8	27.4	28.0	29.2	30.9	32.1	33.9	33.9
170°	26.2	*26.2*	26.8	26.8	26.8	27.4	29.8	31.5	32.1	32.7	32.7
172.5°	27.4	*27.4*	27.4	27.4	27.4	28.6	31.5	32.1	32.1	32.1	32.7
175°	28.6	*28.6*	28.0	28.0	28.6	29.2	29.8	32.7	33.9	34.5	35.7
177.5°	26.8	*26.8*	26.8	27.4	27.4	28.0	28.6	29.8	29.8	30.9	32.7
180°	29.8	*29.8*	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	139.9	150.0	137.5	124.4	114.9	120.2	126.2	121.4	116.0	116.6	106.5
5°	83.9	86.3	87.5	76.2	63.1	70.2	85.7	80.3	61.9	34.5	29.8
7.5°	80.9	77.4	76.2	84.5	76.8	51.2	39.9	36.3	48.2	57.7	60.7
10°	95.8	91.6	82.7	67.8	60.1	56.5	55.3	53.0	45.8	35.7	33.9
12.5°	110.1	105.3	97.0	89.9	79.7	66.7	58.3	55.9	60.1	67.2	67.2
15°	124.4	117.8	107.1	97.6	89.9	75.6	64.9	55.3	54.2	55.9	55.9
17.5°	134.5	127.4	114.9	101.8	88.1	74.4	61.9	52.4	48.2	47.0	47.0
20°	144.6	138.1	123.2	108.9	92.2	76.2	61.9	51.8	47.0	45.2	44.6
22.5°	157.7	149.4	132.7	117.2	97.0	77.4	61.3	52.4	47.0	44.0	43.4
25°	172.6	163.1	144.0	125.6	101.8	78.6	61.9	53.0	47.6	44.0	43.4
27.5°	184.5	174.4	155.9	135.1	107.7	81.5	64.3	54.2	48.2	44.6	44.0
30°	198.2	187.5	166.6	145.2	114.9	86.3	69.0	57.7	50.6	45.8	45.8
32.5°	219.0	204.7	181.5	154.7	122.0	91.6	74.4	61.9	53.0	49.4	49.4
35°	252.9	238.6	207.7	173.2	129.7	97.0	78.6	66.1	55.9	51.2	51.2
37.5°	307.1	285.7	251.1	203.5	142.2	101.2	83.3	69.0	57.7	51.2	50.0
40°	338.6	314.8	271.4	226.1	157.7	106.5	86.9	71.4	58.9	51.8	51.2
42.5°	373.7	346.4	290.4	232.1	167.8	119.0	92.2	73.8	60.1	53.6	52.4
45°	410.6	384.5	333.9	263.6	191.6	136.3	101.2	78.6	63.7	55.9	54.8
47.5°	477.9	445.7	380.3	308.3	226.7	163.7	120.8	86.3	67.8	58.3	57.1
50°	629.0	599.3	508.2	400.5	282.7	202.9	151.2	102.4	74.4	60.1	58.3
52.5°	833.8	780.8	677.8	542.8	394.6	284.5	201.7	138.1	84.5	61.9	58.9
55°	1131.3	1072.4	920.1	743.9	540.4	413.0	305.3	207.7	120.2	63.7	58.3
57.5°	1427.1	1355.7	1227.7	986.7	726.1	526.7	408.3	304.1	175.0	71.4	60.1
60°	1639.0	1552.1	1393.8	1173.0	880.8	619.5	461.2	331.5	194.6	73.2	61.9
62.5°	1763.9	1655.0	1456.3	1192.6	917.7	658.2	482.6	313.0	167.2	71.4	64.3
65°	*1786.6*	*1662.8*	*1456.3*	*1158.7*	*879.6*	*624.3*	*466.6*	*289.2*	*132.1*	*68.4*	*66.1*
67.5°	1656.8	1541.4	1367.0	1064.1	780.2	536.2	401.7	238.0	100.6	66.1	65.5
70°	1359.9	1273.0	1130.7	869.5	633.2	436.2	319.6	183.3	81.5	63.1	61.9
72.5°	1061.1	980.8	874.2	682.0	489.8	345.8	244.0	143.4	72.6	60.7	60.1
75°	835.0	774.9	686.8	538.6	368.4	261.9	185.1	108.3	65.5	59.5	58.3
77.5°	683.2	643.9	552.9	411.2	274.9	194.6	138.1	86.3	62.5	58.3	57.7
80°	531.4	498.7	441.6	307.7	197.0	146.4	108.9	76.2	60.7	57.7	57.1
82.5°	379.1	367.8	319.6	239.2	164.3	125.6	98.2	73.2	60.1	57.1	56.5
85°	316.6	300.5	264.8	207.7	151.2	119.6	94.0	72.0	60.1	57.1	56.5
87.5°	305.9	291.6	258.9	198.2	142.2	112.5	89.9	69.6	58.9	55.9	55.9
90°	270.2	255.9	230.9	178.5	130.9	104.7	83.9	66.1	56.5	53.6	53.6
92.5°	239.2	230.9	207.1	163.7	125.6	100.6	80.9	64.3	55.3	53.0	52.4
95°	202.3	195.2	176.8	147.6	117.8	95.8	78.6	62.5	54.2	51.8	51.8
97.5°	167.8	161.9	147.6	125.0	101.8	85.1	70.8	58.9	52.4	50.6	50.6
100°	148.2	143.4	130.9	112.5	94.0	79.7	68.4	58.3	51.8	49.4	49.4
102.5°	140.4	135.7	123.2	106.5	89.3	76.2	66.7	57.1	51.2	48.8	48.2
105°	134.5	129.7	118.4	101.2	84.5	72.6	63.1	55.9	50.0	48.2	47.6
107.5°	128.5	123.2	112.5	95.2	80.3	69.0	60.7	54.2	49.4	47.6	47.6
110°	122.0	117.2	107.1	90.5	77.4	66.7	59.5	53.6	49.4	47.6	47.6

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

Scaled Data Report

REPORT NUMBER: P1045755
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	114.9	110.1	100.6	85.7	74.4	64.9	58.3	53.0	49.4	47.6	47.6
115°	106.5	102.4	93.4	80.9	70.8	62.5	56.5	51.8	48.2	47.0	47.0
117.5°	104.1	99.4	90.5	79.2	69.6	60.7	55.3	50.6	47.6	46.4	46.4
120°	109.5	103.0	93.4	82.7	69.6	59.5	54.2	50.0	47.0	45.8	45.8
122.5°	116.6	111.3	100.6	80.9	67.2	58.3	53.0	49.4	46.4	45.8	45.8
125°	110.1	106.5	96.4	75.0	64.9	57.1	52.4	49.4	47.0	45.8	45.8
127.5°	96.4	92.8	85.1	71.4	62.5	55.9	51.8	49.4	47.6	45.8	45.8
130°	91.1	86.3	79.2	68.4	60.1	54.2	51.2	49.4	47.6	45.2	44.6
132.5°	93.4	89.3	78.0	64.3	56.5	51.8	49.4	48.2	44.6	42.3	41.7
135°	88.1	83.9	72.6	61.3	54.8	51.2	48.8	45.2	41.7	38.7	38.7
137.5°	78.6	73.8	67.2	58.9	54.2	52.4	49.4	44.6	39.9	37.5	37.5
140°	78.0	72.6	66.7	58.3	53.0	48.2	44.6	39.9	36.3	35.1	34.5
142.5°	79.2	75.6	67.2	57.7	50.6	44.6	40.5	36.9	34.5	32.7	32.7
145°	91.6	86.3	75.6	63.1	54.8	47.6	41.7	36.9	33.3	30.4	29.8
147.5°	94.6	89.3	79.7	69.0	58.3	49.4	41.1	35.1	30.4	28.0	27.4
150°	79.2	75.6	70.2	61.9	52.4	43.4	36.3	30.9	28.0	26.8	26.2
152.5°	60.1	58.9	55.3	49.4	42.8	36.9	32.1	29.2	27.4	26.8	26.2
155°	51.2	50.6	47.0	42.3	36.9	32.7	29.8	28.0	26.8	26.8	26.2
157.5°	47.6	46.4	43.4	38.7	33.9	31.5	28.6	27.4	26.8	26.8	26.8
160°	39.9	38.7	36.3	34.5	31.5	29.8	28.0	27.4	26.8	26.8	26.2
162.5°	35.7	34.5	33.3	31.5	30.9	30.4	29.8	28.6	28.0	27.4	27.4
165°	33.9	33.3	31.5	30.9	30.9	31.5	31.5	30.4	29.2	28.0	28.0
167.5°	33.3	32.7	31.5	30.9	32.1	32.7	33.3	32.1	30.9	29.2	28.6
170°	33.3	33.3	32.7	32.1	32.7	33.3	33.9	33.9	33.3	32.1	32.1
172.5°	33.3	33.9	33.3	33.3	33.3	33.3	33.3	34.5	34.5	33.9	33.9
175°	35.7	35.7	33.9	33.3	33.9	34.5	35.1	34.5	34.5	35.1	35.1
177.5°	32.7	33.9	36.3	36.9	38.1	38.1	36.9	36.3	34.5	33.9	33.9
180°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8

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

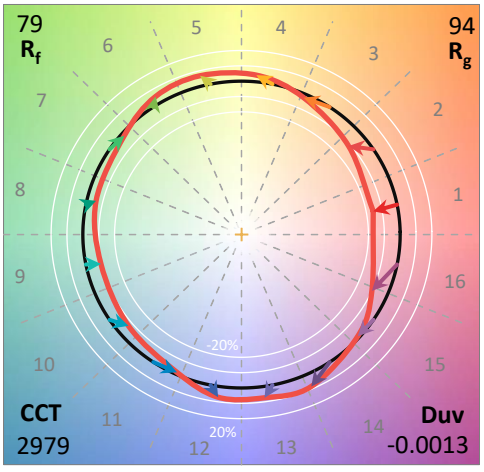
Test Information

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

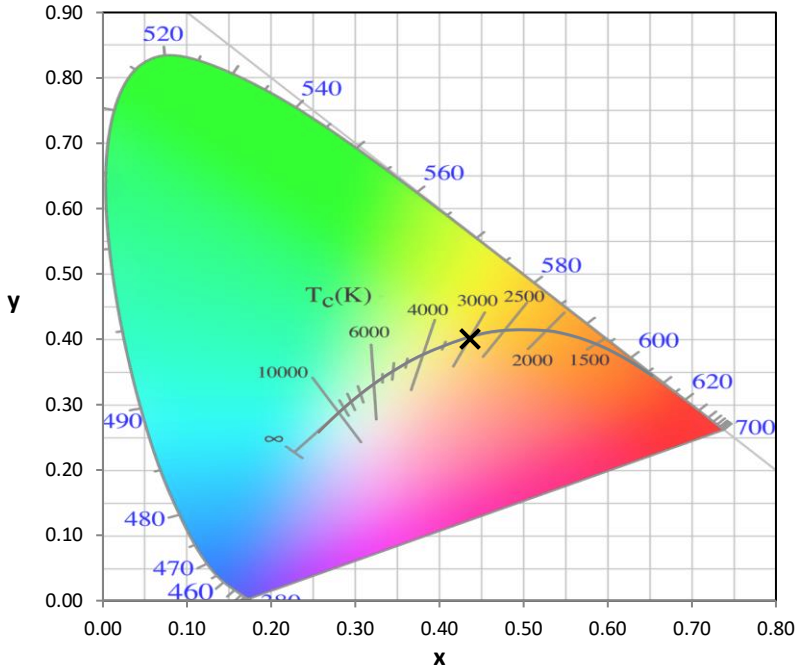
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

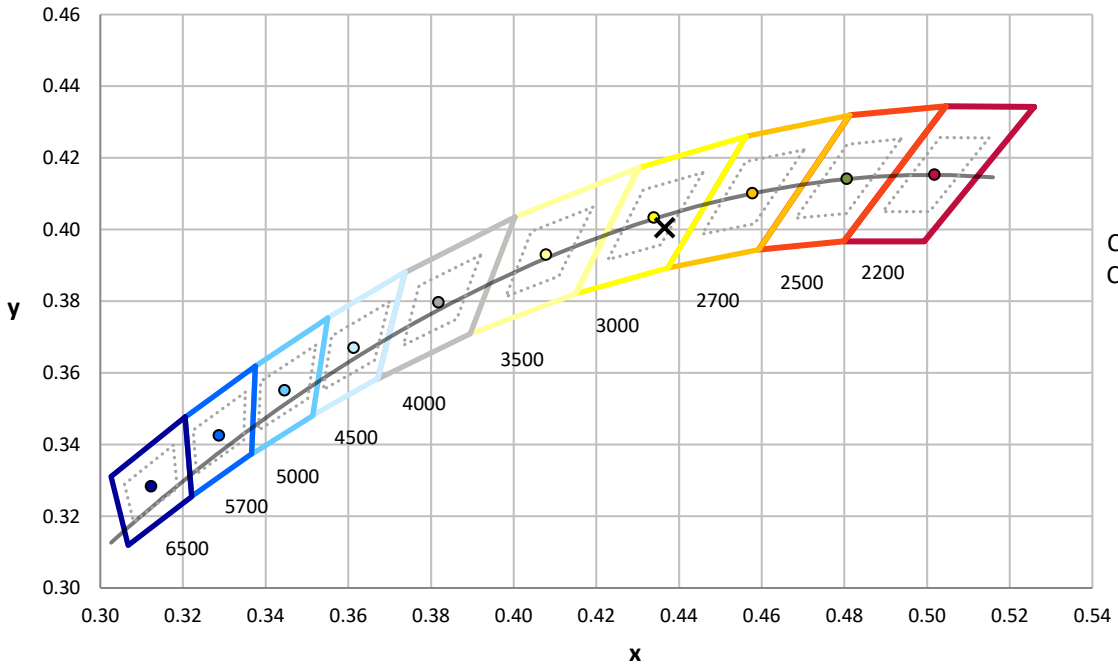
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

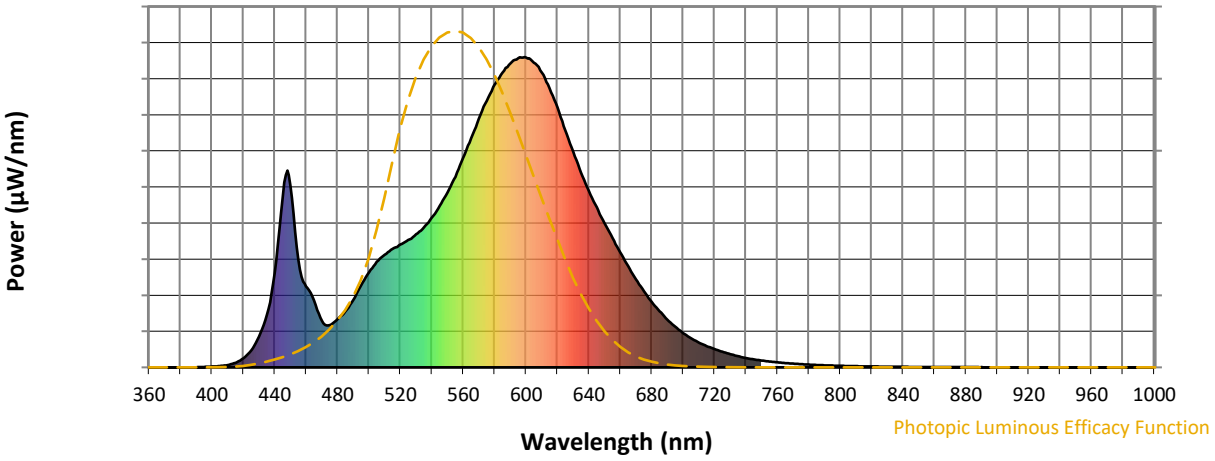


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

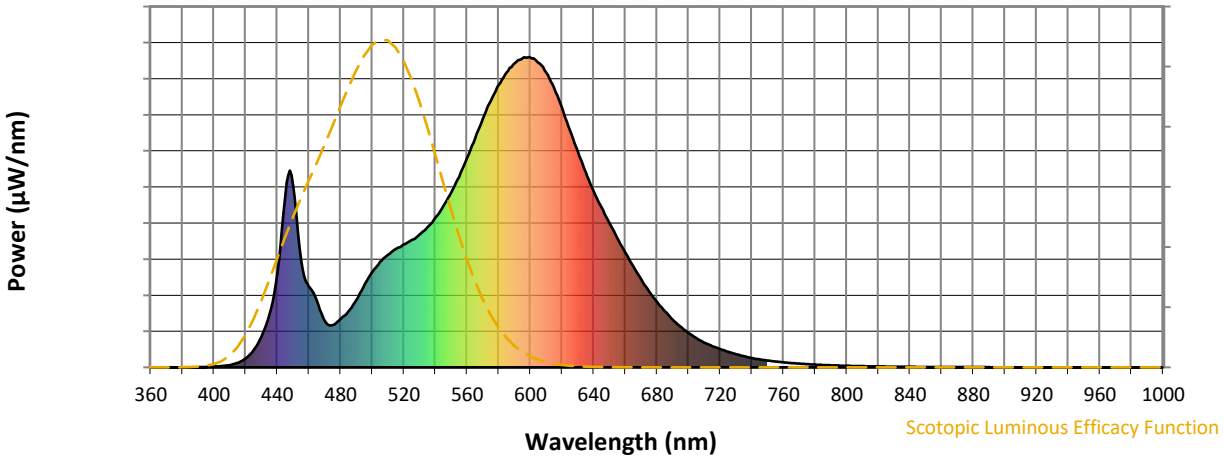


Photopic Lumens: NR

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

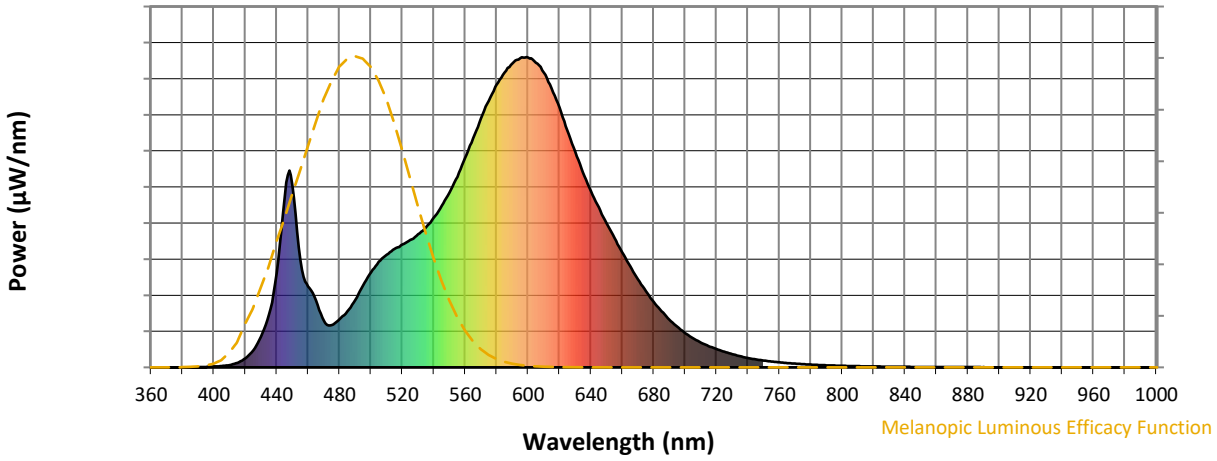


Scotopic Lumens: NR **S/P: 1.29**

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			

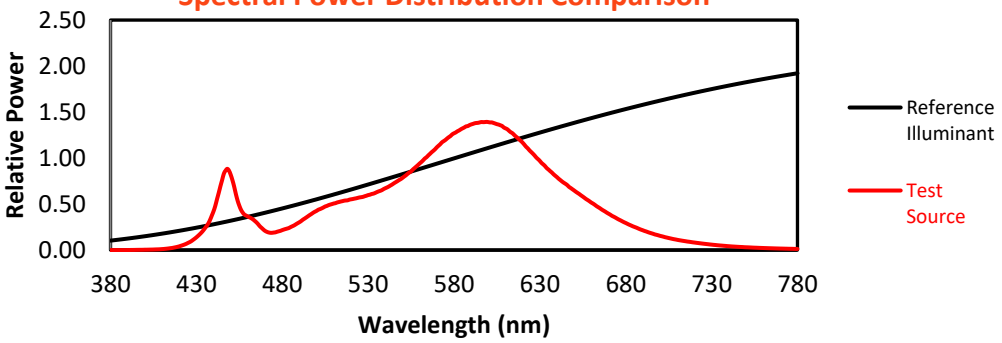
REPORT NUMBER: SP1-2501-332-9

TM-30-18

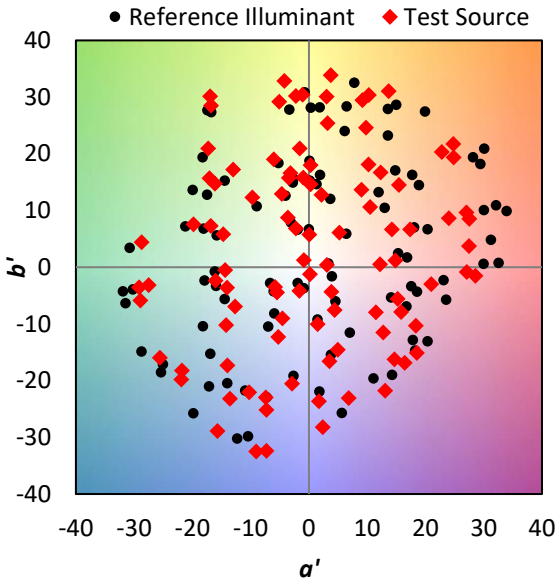
Summary

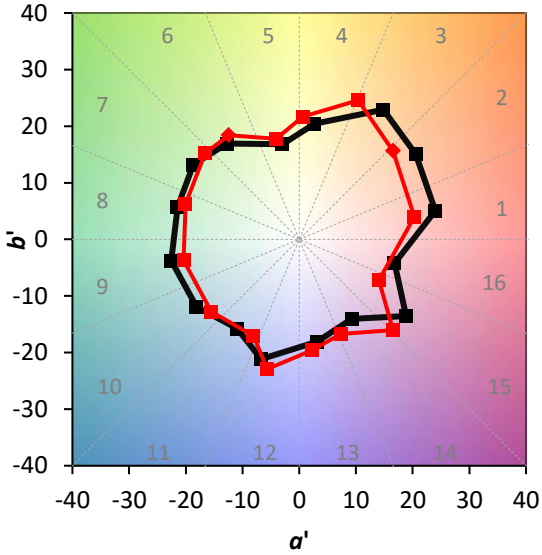
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

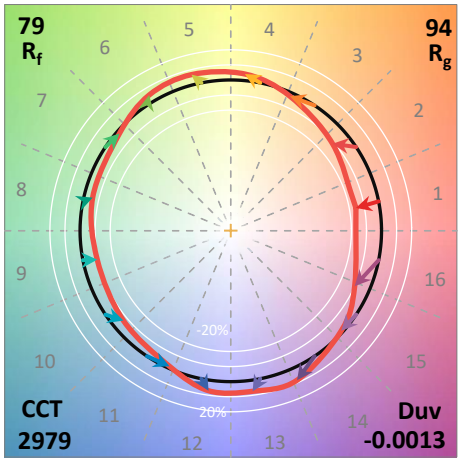
Spectral Power Distribution Comparison

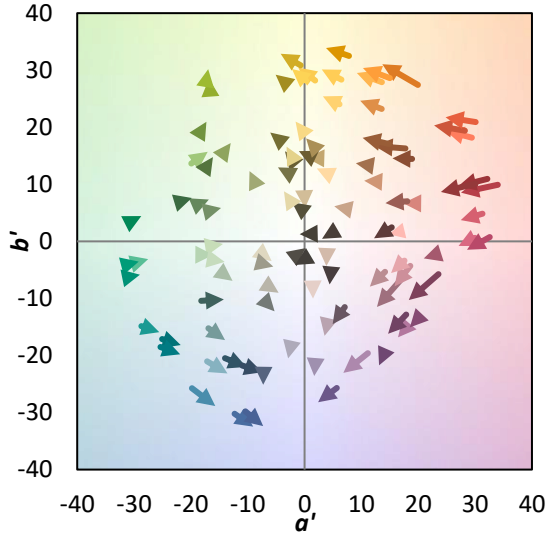


Color Vector Graphics







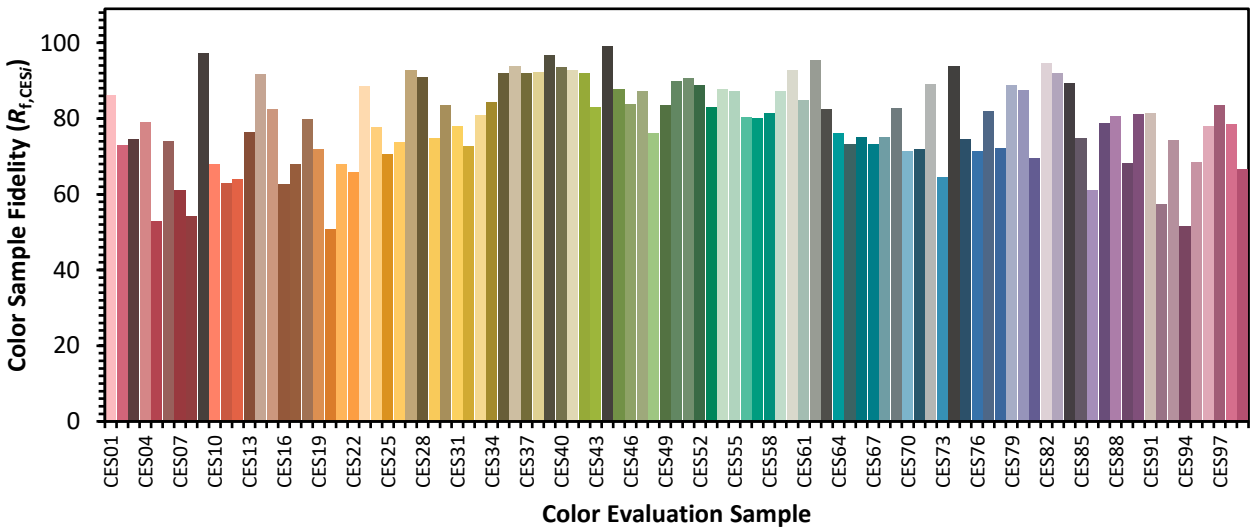


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

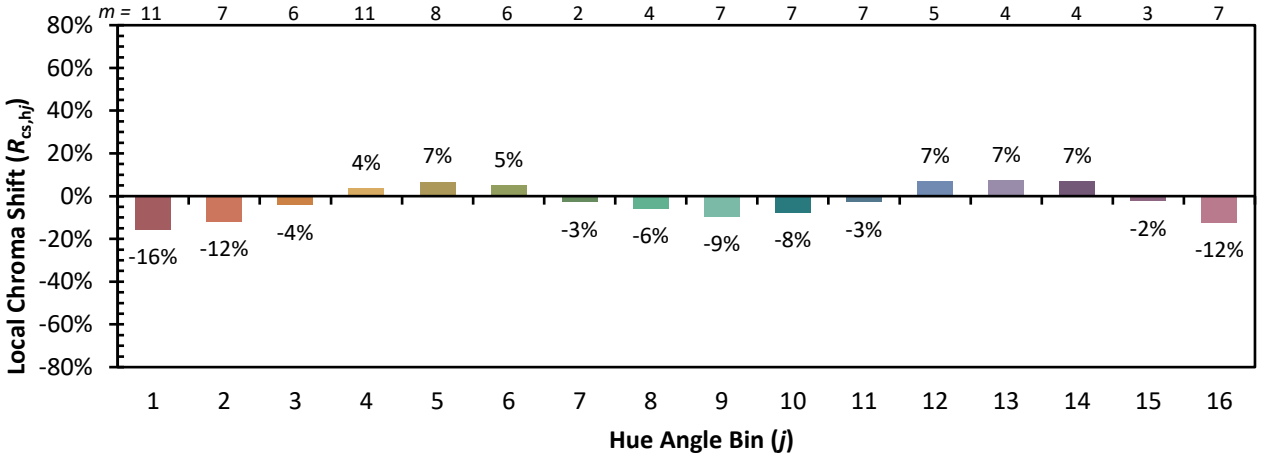
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57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

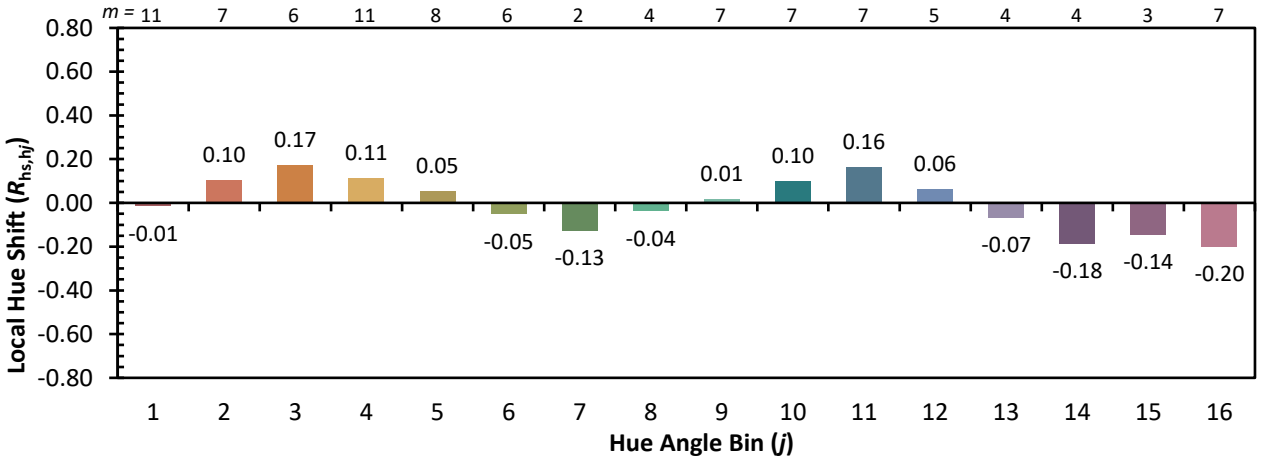


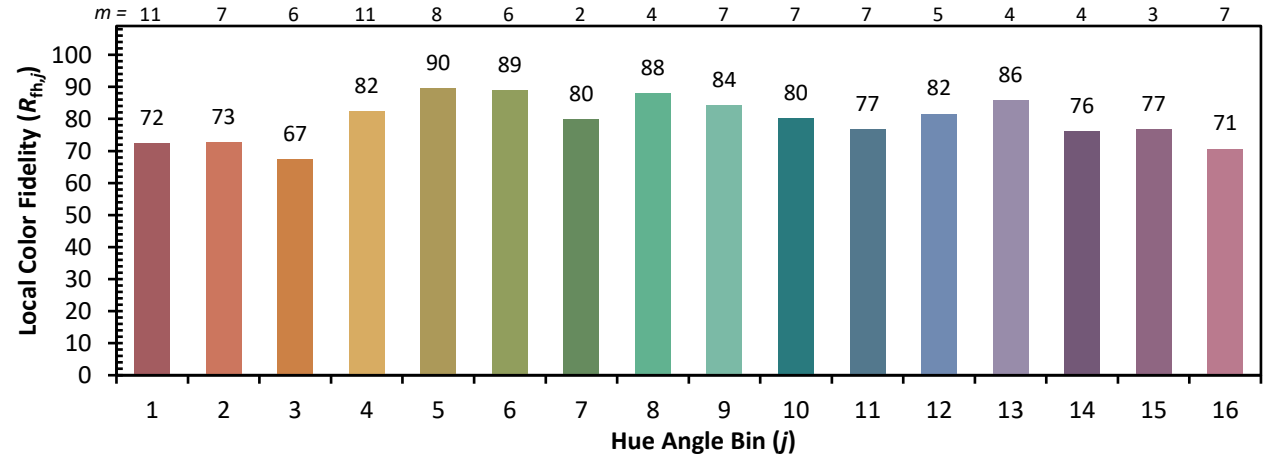
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Color Rendition by Hue-Angle Bin



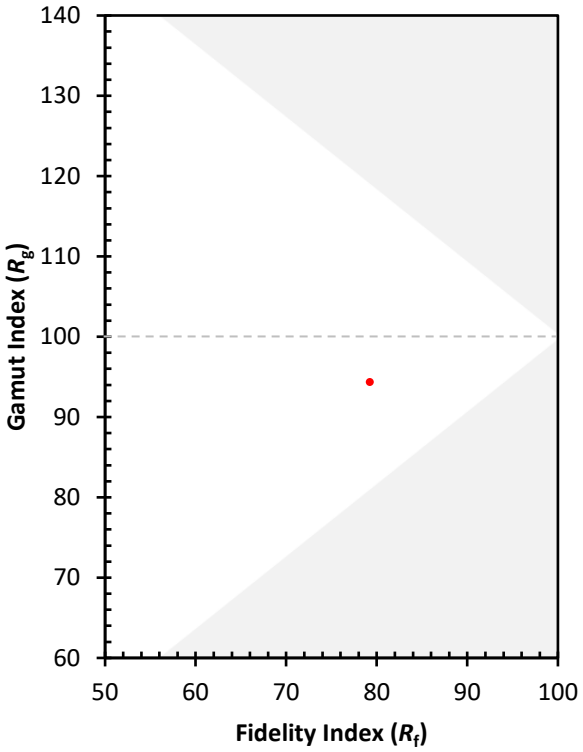


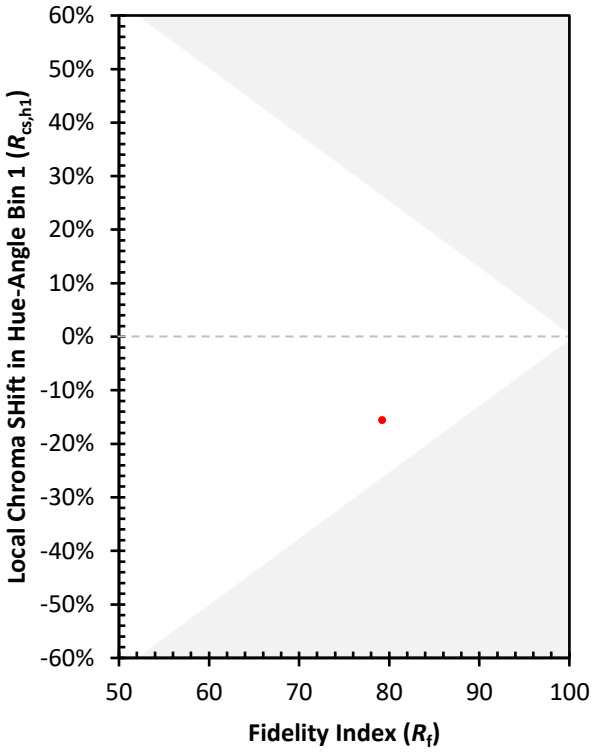


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Measure Comparisons





(END OF REPORT)