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: P1045780

Luminaire Tested: **FFX-CLB-70-722-U-FR-T5-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:	P1045780
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6213.3 lumens
Efficiency:	N/A
Efficacy:	87.3 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):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

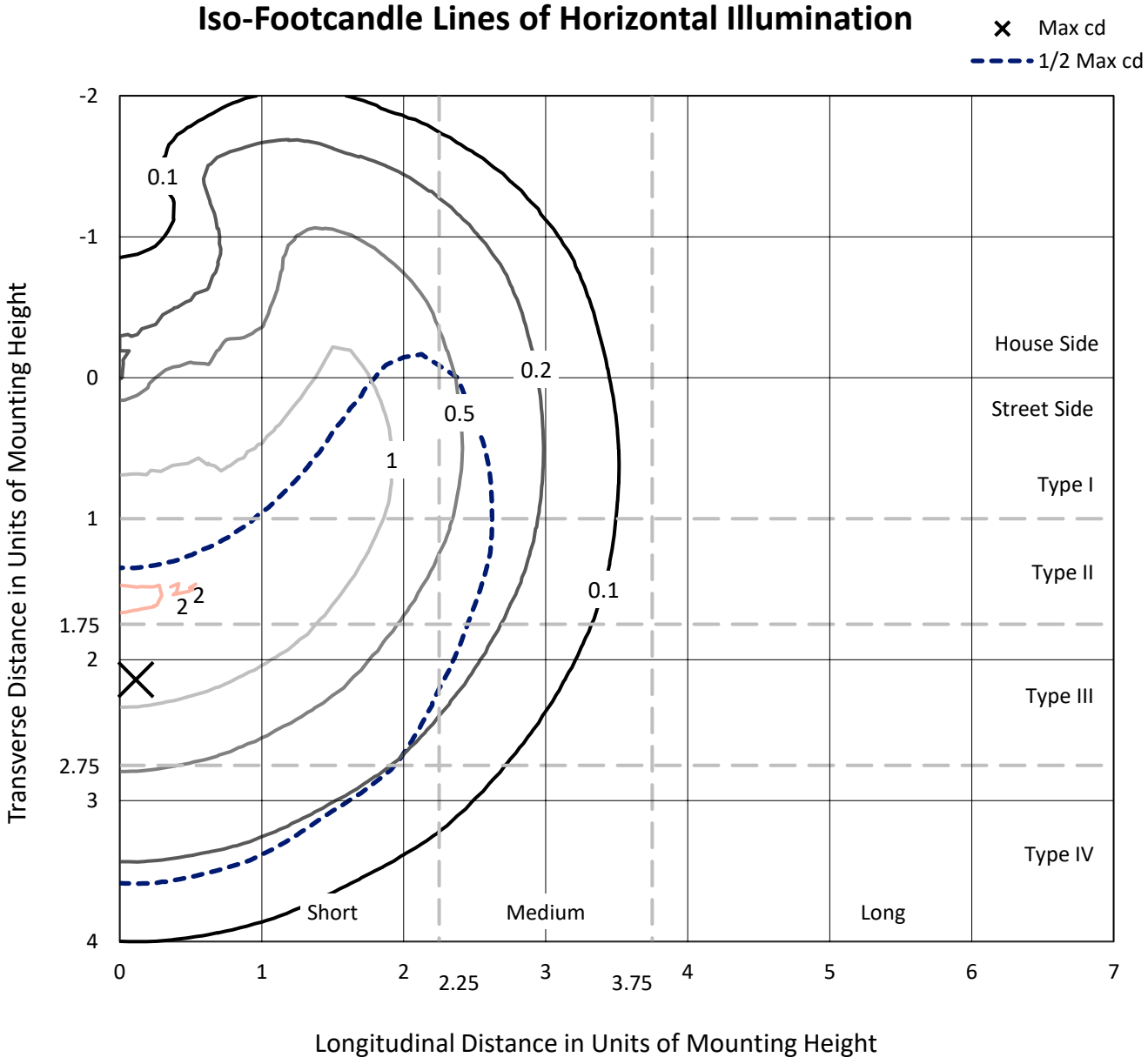


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Iso-Footcandle Lines of Horizontal Illumination



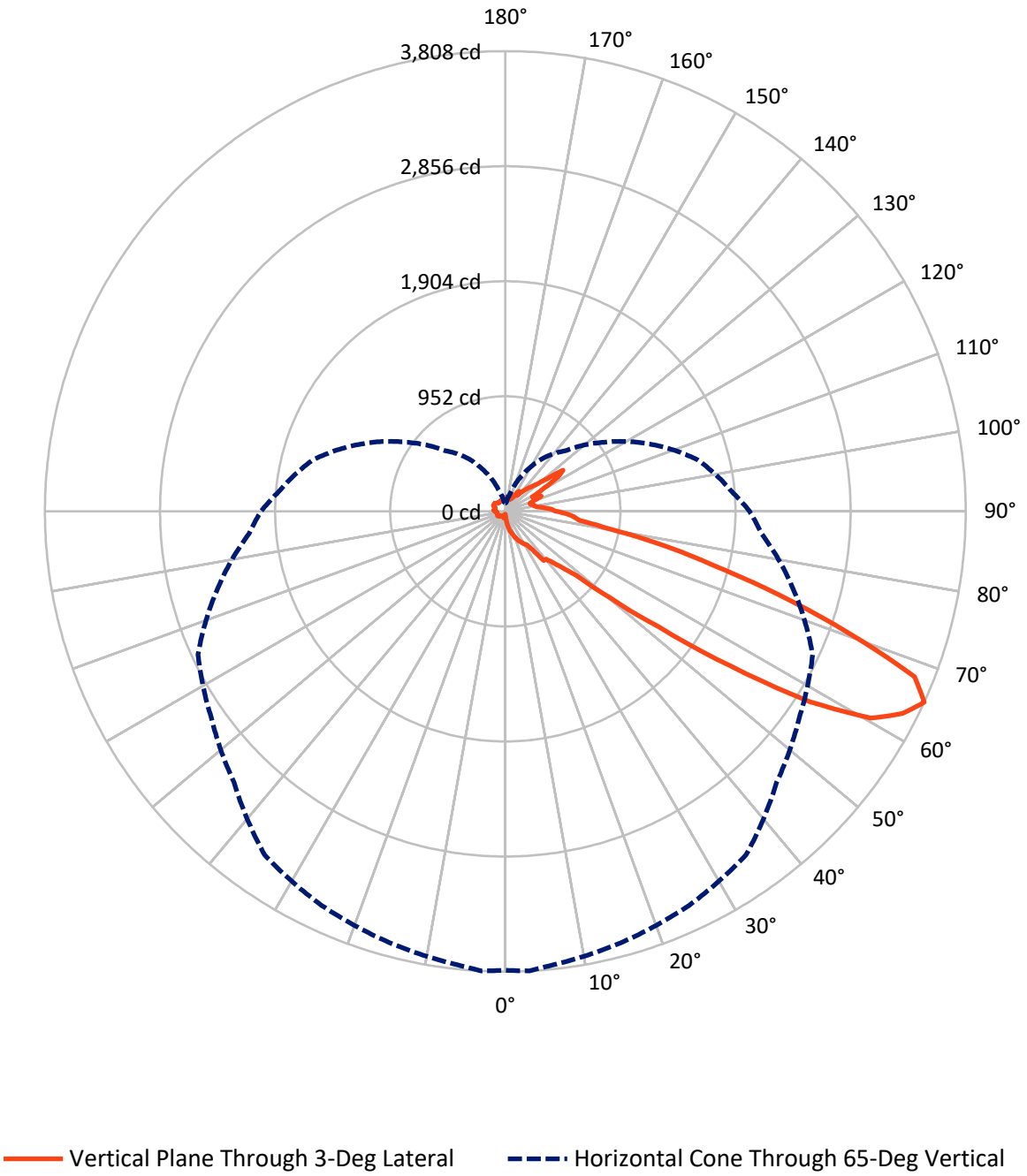
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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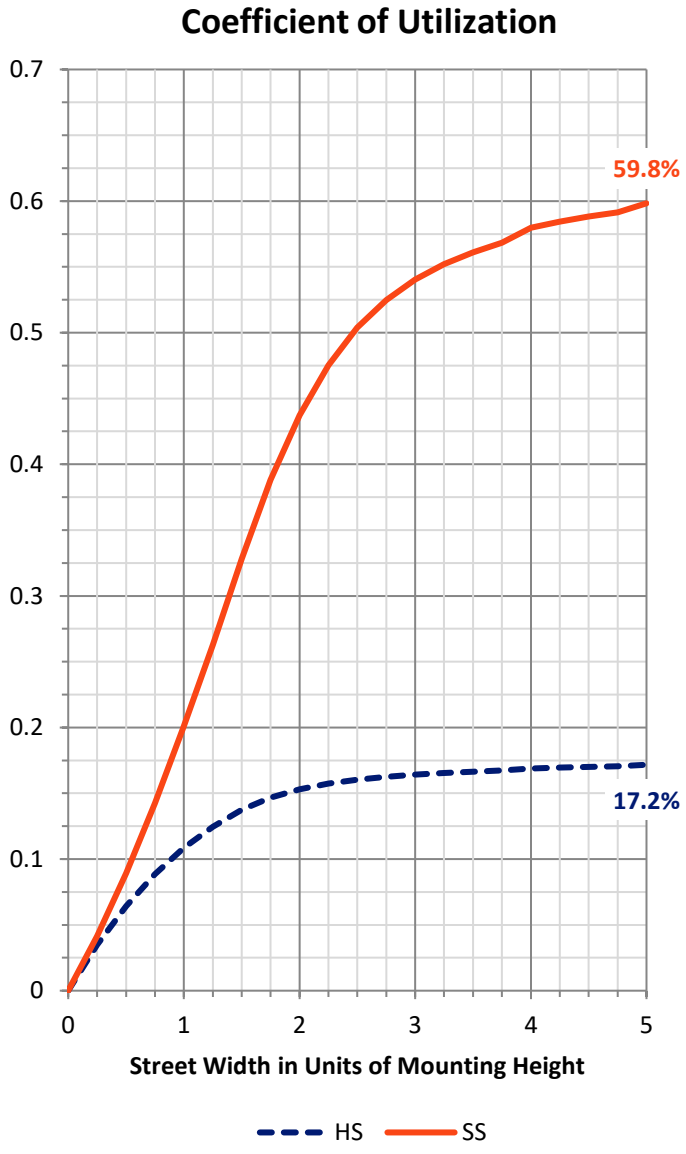
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1107.7	431.2	1538.8
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	3872.0	802.4	4674.4
	% Fixture	62.3	12.9	75.2
Total	Lumens	4979.7	1233.6	6213.3
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.1
10°-20°	35.2	0.6
20°-30°	77.5	1.2
30°-40°	154.7	2.5
40°-50°	333.9	5.4
50°-60°	1141.8	18.4
60°-70°	1855.5	29.9
70°-80°	998.4	16.1
80°-90°	376.2	6.1
90°-100°	237.3	3.8
100°-110°	168.7	2.7
110°-120°	186.2	3.0
120°-130°	284.4	4.6
130°-140°	170.6	2.7
140°-150°	94.2	1.5
150°-160°	52.4	0.8
160°-170°	29.0	0.5
170°-180°	10.7	0.2
0°-90°	4979.7	80.1
0°-180°	6213.3	100.0



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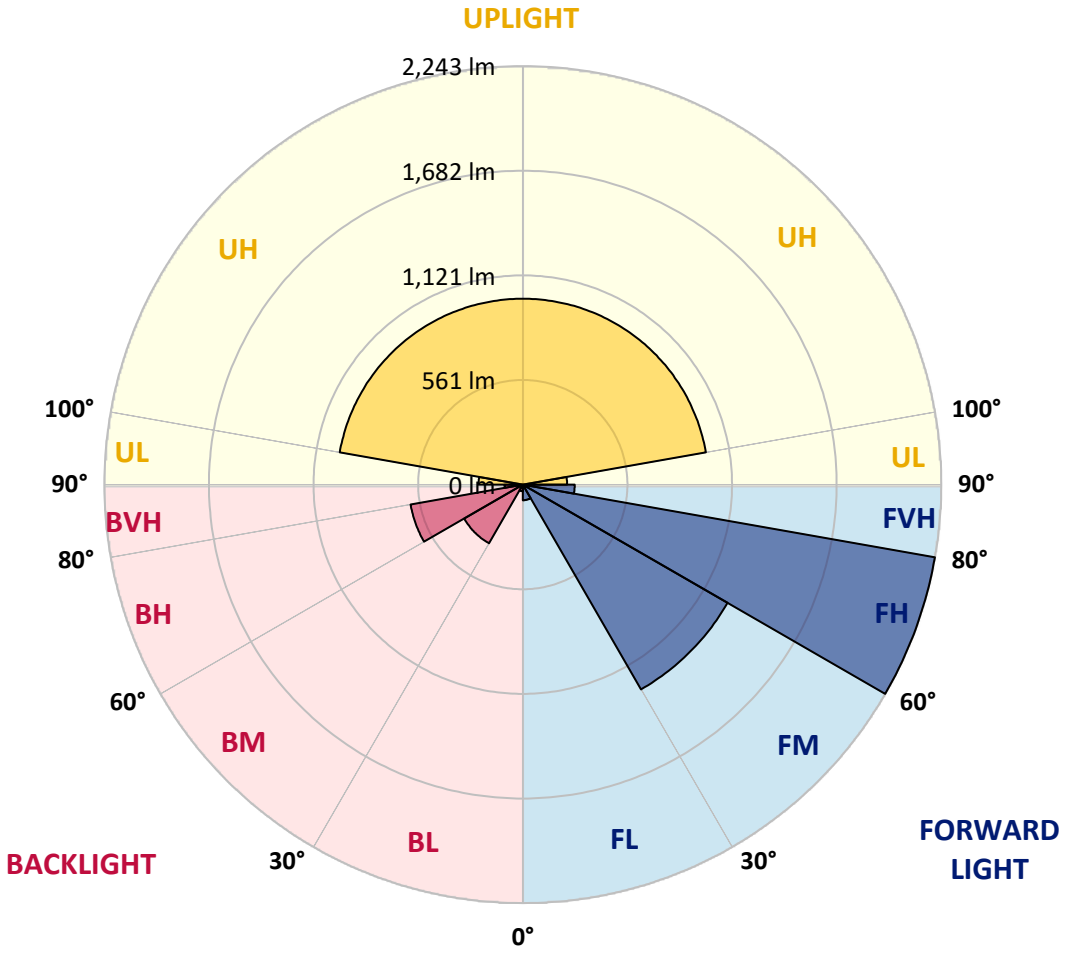
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	83.8	1.3			
FM	(30°-60°)	1267.3	20.4			
FH	(60°-80°)	2242.9	36.1			G2/5000
FVH	(80°-90°)	278.0	4.5			G3/500
BL	(0°-30°)	35.4	0.6	B0/110		
BM	(30°-60°)	363.2	5.8	B1/1000		
BH	(60°-80°)	610.9	9.8	B2/1000		G2/1000
BVH	(80°-90°)	98.2	1.6			G1/100
UL	(90°-100°)	237.3	3.8		U3/500	
UH	(100°-180°)	996.3	16.0		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	49.4	50.1	50.1	50.1	51.5	52.2	51.5	49.4	46.6	45.2	43.8
5°	71.7	73.1	72.4	72.4	71.0	71.0	68.9	67.5	66.1	61.2	56.4
7.5°	99.5	98.1	97.4	96.0	96.7	93.3	90.5	90.5	88.4	83.5	75.9
10°	128.8	128.8	126.7	126.0	124.6	123.2	118.3	115.5	115.5	107.2	98.1
12.5°	160.8	160.1	160.8	159.4	157.3	153.8	148.2	142.0	138.5	130.8	117.6
15°	181.7	181.0	181.0	180.3	178.9	175.4	171.2	165.0	155.9	148.2	135.7
17.5°	203.9	202.5	202.5	199.1	196.3	192.1	188.6	182.4	171.2	157.3	145.5
20°	228.3	228.3	228.3	223.4	217.8	212.3	207.4	201.8	193.5	172.6	155.9
22.5°	251.3	252.0	251.3	246.4	241.5	232.5	224.8	217.8	209.5	188.6	168.4
25°	273.5	274.9	274.2	274.2	268.0	256.1	245.7	235.2	229.7	208.8	181.0
27.5°	293.0	293.7	294.4	297.9	294.4	281.2	264.5	252.0	247.8	224.8	191.4
30°	311.8	313.9	313.9	317.4	316.7	302.1	281.9	268.0	259.6	237.3	201.8
32.5°	329.9	331.3	332.0	340.3	339.6	320.2	302.8	287.4	273.5	256.8	219.9
35°	395.3	393.2	403.7	409.9	405.1	387.7	366.8	338.3	318.8	299.3	259.6
37.5°	517.1	515.7	515.7	501.8	482.3	462.1	456.6	426.6	403.0	377.9	323.6
40°	520.6	520.6	522.7	538.0	547.8	522.0	497.6	468.4	463.5	437.8	371.7
42.5°	571.4	577.0	582.6	593.0	610.4	593.7	565.8	519.2	496.9	470.5	414.1
45°	657.7	666.1	663.3	667.5	663.3	648.7	646.6	620.8	587.4	536.6	460.8
47.5°	800.4	795.5	792.7	809.4	836.6	809.4	803.2	762.1	698.1	633.4	547.1
50°	1151.2	1130.3	1151.9	1148.4	1143.5	1118.5	1099.7	1058.6	954.2	849.1	724.5
52.5°	1621.0	1586.9	1606.4	1619.6	1605.7	1570.2	1513.8	1433.8	1293.2	1157.4	993.2
55°	2303.8	2256.4	2262.7	2279.4	2289.1	2208.4	2127.7	1950.9	1740.0	1530.5	1352.3
57.5°	3057.5	2972.6	3028.3	2935.0	2896.8	2752.7	2684.5	2505.6	2257.8	1978.0	1690.6
60°	3482.1	3473.0	3462.6	3390.2	3349.8	3188.4	3028.3	2860.6	2638.5	2307.9	1971.8
62.5°	3666.5	3686.0	3670.7	3633.1	3596.9	3454.9	3176.5	2977.5	2797.2	2457.6	2122.1
65°	3796.7	3807.8	3782.1	3695.1	3596.9	3470.3	3173.1	2969.8	2804.9	2462.4	2128.4
67.5°	3647.7	3649.8	3618.5	3505.8	3306.7	3195.3	2907.2	2729.7	2568.2	2275.9	1963.4
70°	3004.6	3010.9	2991.4	2891.2	2724.1	2627.4	2349.7	2167.3	2045.5	1843.7	1613.3
72.5°	2342.0	2369.2	2341.3	2301.7	2143.0	2071.3	1884.8	1737.2	1625.2	1435.2	1249.3
75°	1760.9	1767.1	1767.8	1723.3	1639.8	1623.8	1495.7	1398.3	1300.8	1144.9	1008.5
77.5°	1277.2	1305.0	1295.3	1287.6	1178.3	1184.6	1133.8	1076.0	1014.8	911.1	813.6
80°	847.7	862.3	844.9	849.1	834.5	831.0	783.7	744.7	707.1	659.1	620.8
82.5°	618.0	615.3	613.9	606.2	595.1	597.2	573.5	525.5	480.2	470.5	435.0
85°	571.4	569.3	567.2	553.3	529.7	515.0	501.8	482.3	454.5	410.6	364.7
87.5°	499.7	500.4	495.6	480.9	465.6	461.4	451.0	438.5	424.6	391.8	351.5
90°	411.3	409.2	409.9	401.6	404.4	403.0	387.0	371.7	366.1	338.3	314.6
92.5°	380.0	377.9	378.6	372.4	362.6	360.5	343.1	324.3	316.0	298.6	280.5
95°	317.4	317.4	314.6	311.8	306.9	300.0	290.9	278.4	272.1	258.2	240.1
97.5°	266.6	263.8	265.9	261.0	256.8	254.0	247.1	234.6	228.3	217.8	203.9
100°	247.8	247.8	247.1	245.0	234.6	229.0	221.3	209.5	204.6	195.6	185.1
102.5°	237.3	236.6	235.9	233.9	224.1	214.4	204.6	197.7	192.1	184.4	173.3
105°	217.2	217.2	218.5	217.8	210.9	204.6	194.2	187.9	182.4	174.7	164.3
107.5°	215.1	214.4	214.4	206.0	197.0	193.5	185.8	180.3	175.4	167.7	155.9
110°	246.4	247.8	249.9	235.9	214.4	205.3	194.2	187.9	182.4	172.6	160.1

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	322.9	*322.9*	321.6	313.9	276.3	251.3	245.7	229.7	220.6	206.0	188.6
115°	290.2	*290.9*	290.2	292.3	289.5	258.2	263.8	237.3	252.6	218.5	206.7
117.5°	253.3	*252.6*	249.9	250.6	253.3	273.5	229.7	223.4	229.7	199.1	188.6
120°	353.6	*347.3*	353.6	327.8	323.6	327.1	302.1	297.2	270.7	233.9	206.0
122.5°	520.6	*510.9*	524.8	515.7	522.7	499.7	475.4	455.2	426.0	364.0	308.3
125°	588.1	*586.0*	582.6	570.0	558.9	549.1	553.3	561.0	545.0	494.9	430.1
127.5°	432.9	*438.5*	436.4	461.4	485.8	480.2	465.6	472.6	480.9	478.2	439.9
130°	345.2	*350.1*	352.9	377.2	398.1	398.1	374.4	368.2	375.1	389.8	375.1
132.5°	302.8	*304.2*	305.5	313.9	331.3	339.6	325.0	315.3	318.1	325.7	313.2
135°	272.8	*272.1*	270.0	264.5	265.9	274.2	280.5	279.1	277.0	277.0	270.0
137.5°	236.6	*235.9*	235.9	227.6	224.1	231.1	240.1	248.5	242.9	235.2	226.9
140°	197.0	*196.3*	197.0	201.8	203.2	203.9	208.8	208.8	208.8	208.1	204.6
142.5°	163.6	*164.3*	165.6	178.2	184.4	184.4	178.2	172.6	171.9	176.1	176.8
145°	201.1	*201.1*	201.8	201.1	197.0	192.8	188.6	188.6	184.4	174.7	169.8
147.5°	179.6	*182.4*	180.3	182.4	183.7	184.4	183.7	185.8	186.5	181.0	173.3
150°	141.3	*140.6*	139.2	141.3	144.8	148.9	150.3	151.7	152.4	152.4	152.4
152.5°	122.5	*123.2*	122.5	124.6	126.7	127.4	129.5	129.5	130.2	129.5	128.1
155°	119.0	*119.0*	119.0	119.0	119.7	121.1	123.9	125.3	123.9	121.8	118.3
157.5°	110.7	*110.7*	110.7	111.4	112.8	114.1	116.2	117.6	117.6	116.2	113.4
160°	105.8	*105.8*	105.8	105.8	107.2	108.6	110.0	111.4	111.4	110.7	108.6
162.5°	100.2	*100.2*	100.2	100.9	102.3	103.7	105.1	106.5	105.8	105.8	104.4
165°	99.5	*99.5*	99.5	100.2	101.6	103.7	104.4	104.4	105.1	105.1	105.1
167.5°	102.3	*102.3*	103.0	103.0	104.4	105.1	106.5	107.2	107.9	107.2	107.2
170°	106.5	*106.5*	106.5	107.2	107.9	107.9	108.6	108.6	109.3	109.3	109.3
172.5°	112.1	*112.1*	112.1	112.1	111.4	111.4	111.4	111.4	112.1	111.4	112.1
175°	118.3	*118.3*	118.3	117.6	116.9	116.9	116.2	116.2	115.5	114.8	114.8
177.5°	119.0	*119.0*	119.0	119.0	118.3	117.6	117.6	116.9	116.2	116.2	116.2
180°	116.2	*116.2*	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	42.5	41.1	37.6	34.8	32.7	29.9	27.8	25.8	24.4	23.7	23.0
5°	55.7	52.9	48.7	44.5	41.1	36.2	33.4	28.5	25.1	23.7	23.0
7.5°	73.1	71.0	68.9	68.2	66.8	60.6	51.5	44.5	43.2	41.8	43.2
10°	93.3	89.1	82.8	86.3	86.3	74.5	61.9	55.0	54.3	57.1	57.8
12.5°	112.1	106.5	98.8	98.1	90.5	74.5	61.2	54.3	53.6	54.3	55.0
15°	129.5	123.2	114.8	107.9	96.0	79.3	64.0	55.0	52.9	55.0	55.0
17.5°	139.2	132.9	121.1	107.9	94.0	78.6	63.3	53.6	48.7	45.9	45.9
20°	151.0	146.2	130.2	113.4	94.7	78.0	62.6	52.2	46.6	43.8	43.2
22.5°	161.5	155.9	138.5	120.4	98.8	78.0	60.6	51.5	46.6	43.8	43.2
25°	174.0	165.6	148.2	128.1	102.3	78.0	60.6	52.2	47.3	44.5	43.8
27.5°	182.4	172.6	155.9	133.6	106.5	79.3	62.6	52.9	47.3	44.5	44.5
30°	190.7	181.7	162.2	141.3	111.4	82.8	66.1	55.7	49.4	45.9	45.9
32.5°	207.4	195.6	171.9	147.6	115.5	85.6	69.6	58.5	51.5	48.0	48.0
35°	245.0	228.3	199.8	165.6	121.1	88.4	73.1	61.9	52.9	48.7	48.7
37.5°	302.1	281.2	246.4	199.8	135.0	92.6	75.9	63.3	54.3	50.8	50.1
40°	339.6	313.9	272.1	226.9	155.2	99.5	79.3	65.4	55.7	51.5	50.8
42.5°	384.9	353.6	297.9	235.2	165.6	114.1	86.3	68.9	57.8	52.2	51.5
45°	426.0	399.5	347.3	274.9	195.6	135.7	98.8	75.2	61.2	54.3	53.6
47.5°	509.5	468.4	398.8	324.3	233.2	168.4	120.4	84.9	66.8	57.1	55.7
50°	672.3	629.9	545.7	430.1	301.4	214.4	155.2	103.0	73.8	59.9	57.8
52.5°	913.2	835.2	741.2	585.3	427.3	309.7	219.9	145.5	87.7	62.6	59.2
55°	1235.4	1190.9	1024.5	826.2	609.0	463.5	338.3	226.2	130.8	66.1	59.9
57.5°	1605.0	1516.6	1364.9	1117.8	814.3	590.2	457.3	336.9	192.8	77.3	63.3
60°	1843.0	1751.1	1577.1	1327.3	991.1	703.7	521.3	375.1	218.5	79.3	66.1
62.5°	1996.8	1868.1	1647.4	1355.1	1042.6	750.3	550.5	356.4	186.5	77.3	68.2
65°	*2020.5*	*1880.6*	*1647.4*	*1316.8*	*996.0*	*712.0*	*532.4*	*329.2*	*146.9*	*73.8*	*71.0*
67.5°	1880.6	1728.9	1535.4	1207.6	893.7	610.4	457.3	268.7	111.4	71.7	70.3
70°	1522.8	1427.5	1251.4	984.1	713.4	499.7	364.0	206.0	90.5	69.6	68.9
72.5°	1163.7	1094.8	971.6	767.0	549.8	385.6	277.7	162.2	81.4	68.2	67.5
75°	926.4	863.7	763.5	590.9	419.7	297.2	207.4	124.6	74.5	68.2	66.8
77.5°	764.2	709.2	618.7	468.4	306.2	222.0	157.3	100.9	73.1	68.2	67.5
80°	588.1	548.4	480.9	340.3	219.2	166.3	125.3	89.8	73.1	69.6	68.9
82.5°	416.9	401.6	350.8	265.2	184.4	144.8	115.5	88.4	74.5	71.0	70.3
85°	346.6	328.5	292.3	231.1	171.9	139.9	114.1	90.5	78.0	75.2	74.5
87.5°	334.1	322.2	286.8	223.4	165.0	133.6	109.3	88.4	78.0	76.6	77.3
90°	302.1	288.8	261.7	208.1	158.0	132.9	111.4	91.9	80.7	79.3	78.6
92.5°	274.2	266.6	242.9	201.1	162.9	137.8	117.6	100.2	91.2	88.4	88.4
95°	234.6	226.9	213.7	184.4	155.2	135.0	117.6	102.3	94.7	93.3	92.6
97.5°	199.8	194.9	183.7	160.8	137.8	121.1	105.8	94.0	87.7	85.6	85.6
100°	182.4	178.2	169.1	153.8	136.4	122.5	110.0	99.5	94.0	92.6	92.6
102.5°	169.8	166.3	158.0	146.9	131.5	120.4	110.0	100.9	94.7	93.3	94.0
105°	159.4	155.9	147.6	136.4	123.9	112.1	104.4	97.4	90.5	88.4	88.4
107.5°	151.7	148.2	141.3	130.2	119.7	109.3	100.9	95.4	89.8	88.4	88.4
110°	155.2	150.3	139.9	128.1	119.0	110.0	103.0	97.4	93.3	91.2	91.2

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

Scaled Data Report

REPORT NUMBER: P1045780
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	181.7	174.0	156.6	139.9	128.1	117.6	110.0	102.3	98.8	96.0	96.0
115°	199.1	191.4	174.0	153.8	136.4	121.8	111.4	105.1	100.9	103.7	102.3
117.5°	181.7	176.1	162.9	148.2	134.3	121.8	112.8	108.6	105.8	109.3	110.7
120°	199.8	189.3	178.9	162.2	136.4	119.0	112.8	111.4	111.4	108.6	108.6
122.5°	285.4	268.0	229.0	200.4	165.0	145.5	133.6	122.5	111.4	107.2	106.5
125°	399.5	366.8	317.4	267.3	218.5	177.5	143.4	122.5	112.1	105.8	104.4
127.5°	420.4	391.8	346.6	286.1	219.9	173.3	142.7	126.7	114.8	107.9	107.2
130°	355.0	341.0	300.7	248.5	197.7	161.5	141.3	126.7	115.5	109.3	107.9
132.5°	301.4	291.6	254.0	212.3	176.1	149.6	131.5	115.5	105.1	99.5	98.1
135°	258.9	252.6	219.9	190.0	162.9	141.3	122.5	107.2	98.8	95.4	94.7
137.5°	222.0	215.8	193.5	172.6	151.7	132.9	117.6	104.4	96.7	94.7	94.0
140°	199.1	193.5	179.6	157.3	137.1	117.6	106.5	98.1	94.0	92.6	91.9
142.5°	173.3	167.0	151.7	135.7	121.8	106.5	98.8	95.4	93.3	91.9	91.2
145°	164.3	160.1	142.7	128.1	114.8	107.2	103.0	98.1	94.0	91.2	90.5
147.5°	166.3	161.5	146.2	132.2	120.4	112.1	105.1	98.1	92.6	89.8	89.1
150°	148.9	147.6	138.5	127.4	116.2	107.2	100.2	94.7	91.2	90.5	90.5
152.5°	124.6	123.9	119.7	113.4	105.8	98.8	94.0	91.2	91.2	92.6	93.3
155°	116.9	114.8	112.1	107.9	101.6	96.7	93.3	91.9	92.6	94.0	94.0
157.5°	112.8	110.7	107.9	104.4	100.9	96.7	94.0	93.3	94.7	96.0	96.0
160°	107.2	105.8	103.7	100.2	97.4	95.4	94.0	94.0	94.7	95.4	95.4
162.5°	103.7	102.3	100.2	98.1	96.7	96.0	95.4	94.7	95.4	96.0	96.0
165°	103.7	103.0	100.2	98.1	97.4	97.4	97.4	97.4	97.4	96.7	96.7
167.5°	106.5	105.8	103.7	102.3	101.6	102.3	102.3	101.6	100.9	99.5	99.5
170°	109.3	108.6	107.9	107.2	106.5	107.2	107.2	107.2	106.5	106.5	105.8
172.5°	112.1	111.4	110.7	110.0	110.0	110.0	110.7	111.4	111.4	111.4	111.4
175°	114.8	114.8	113.4	112.8	112.8	112.8	113.4	113.4	114.1	114.1	114.1
177.5°	116.2	116.2	116.2	116.2	116.9	116.2	116.2	115.5	115.5	115.5	115.5
180°	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

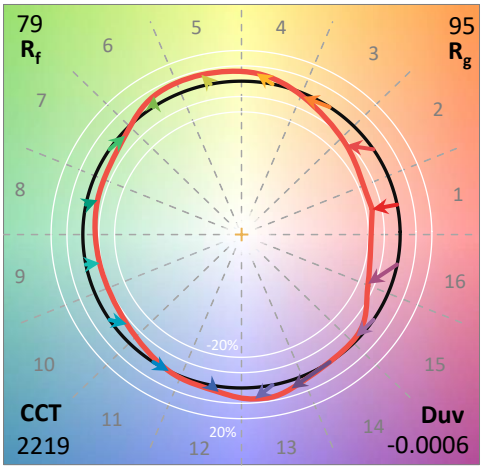
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

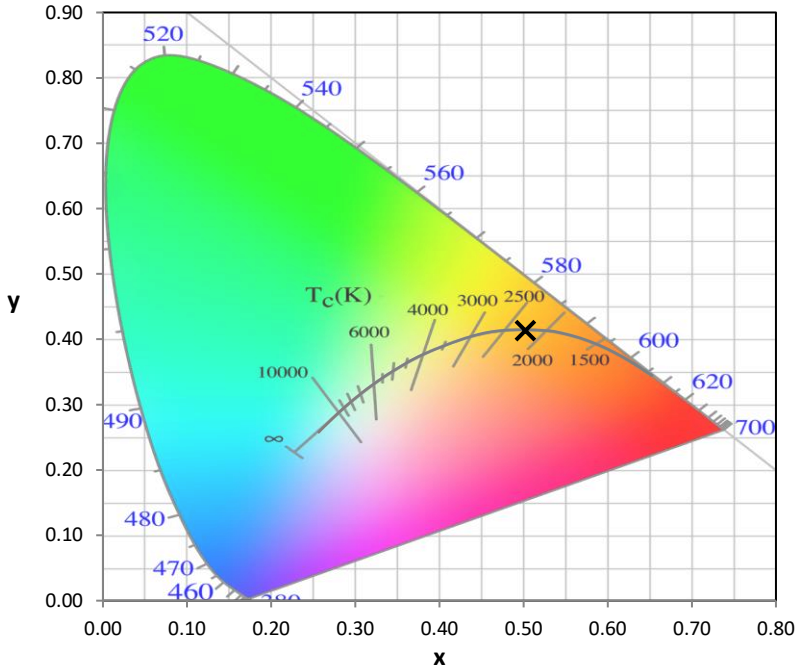
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

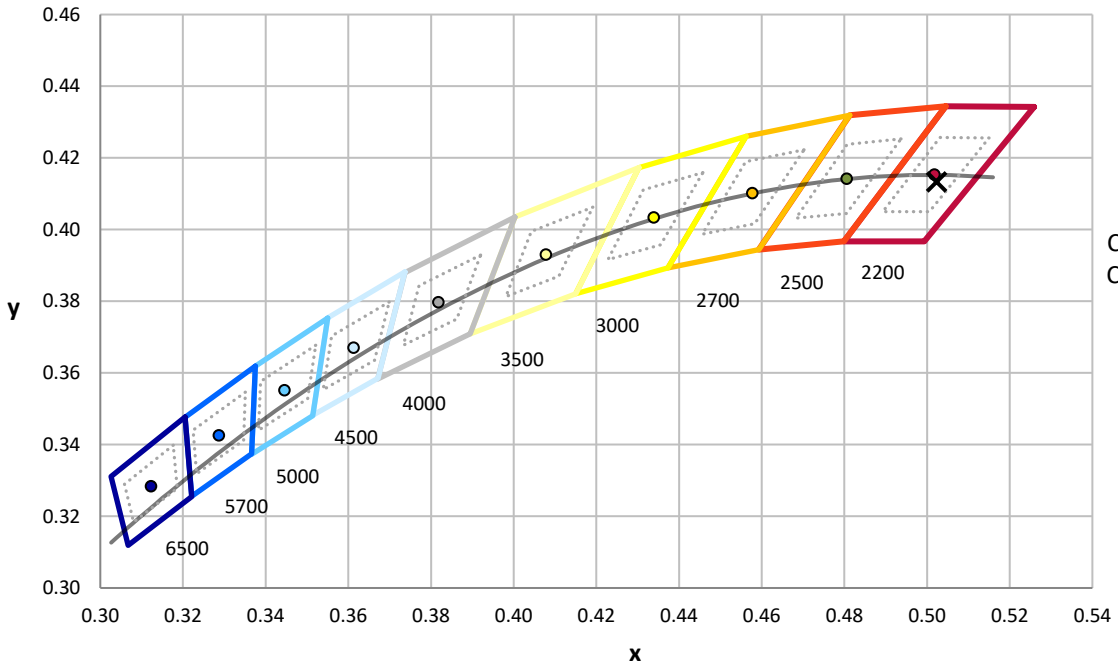
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

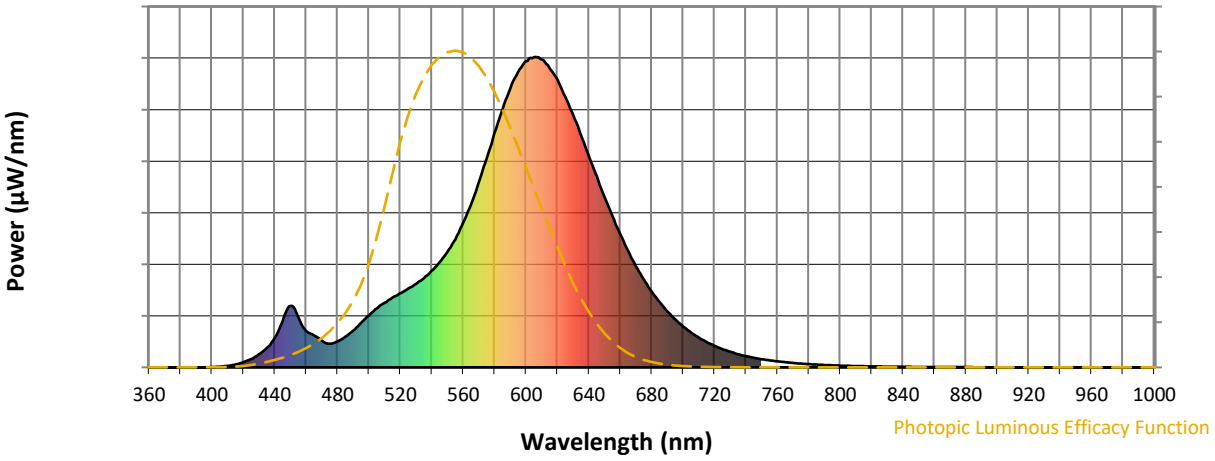


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

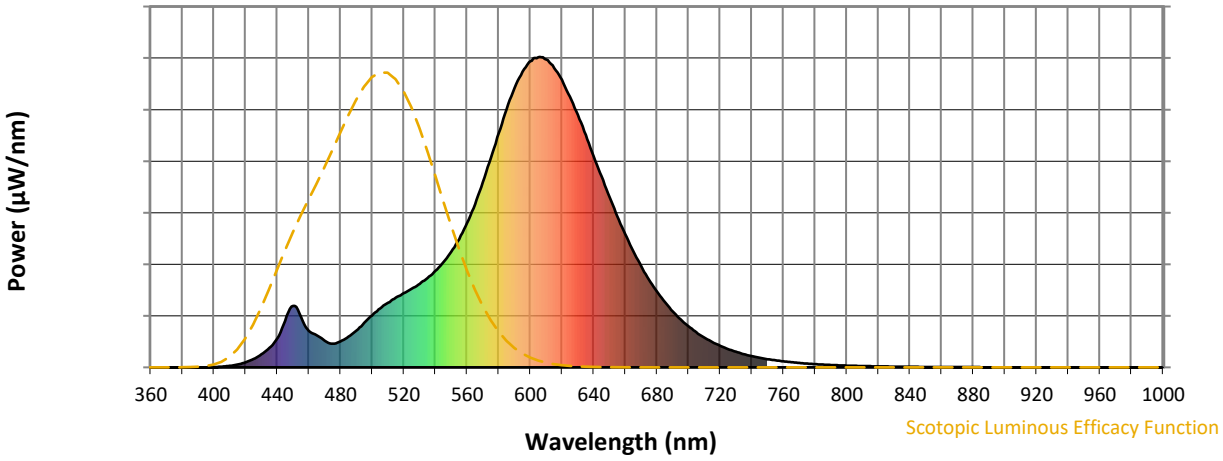


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

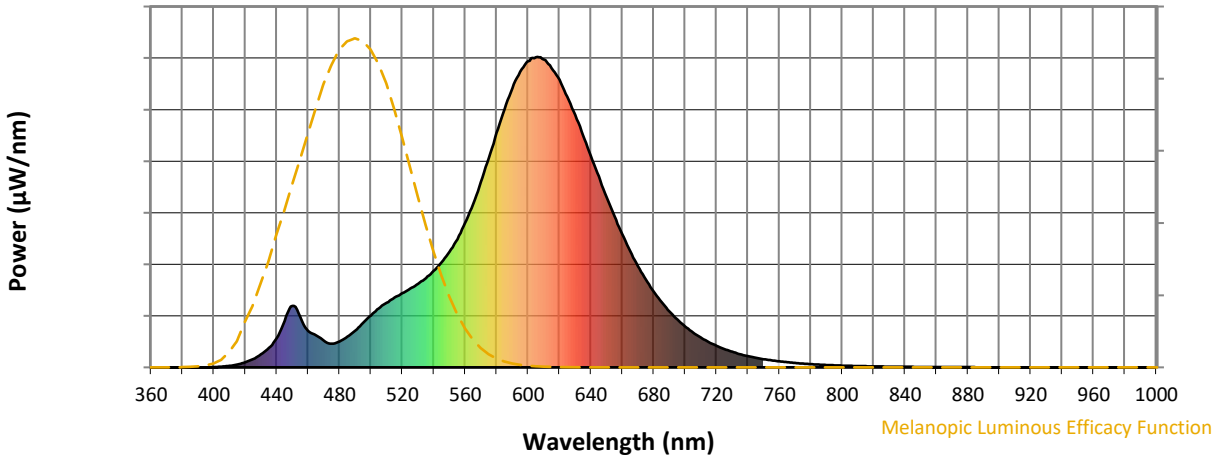


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

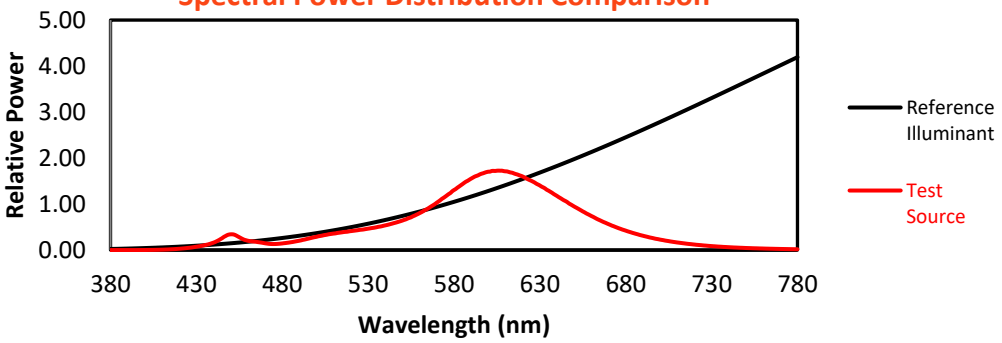
REPORT NUMBER: SP1-2501-332-2

TM-30-18

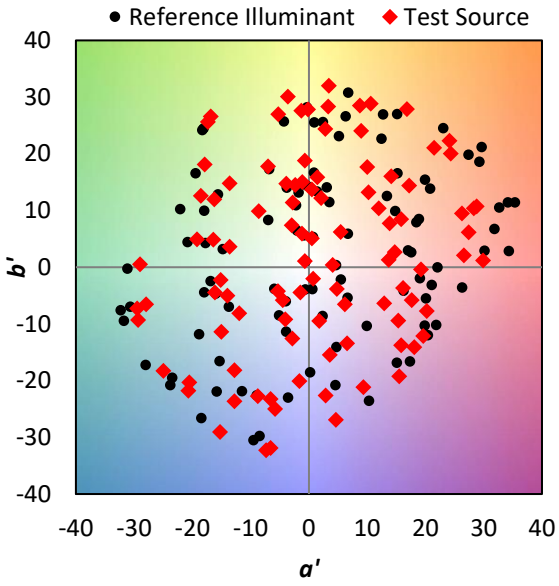
Summary

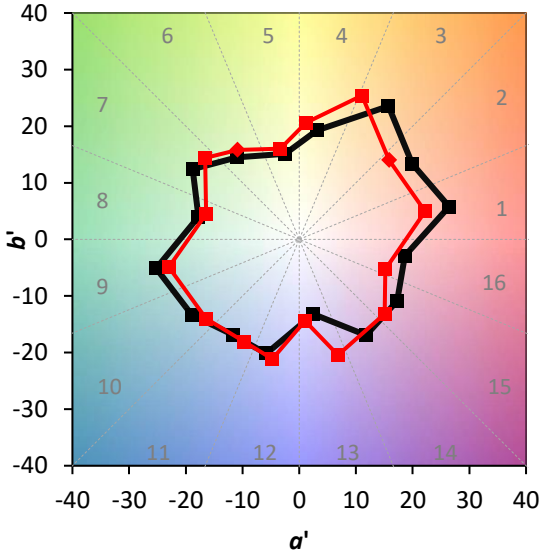
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

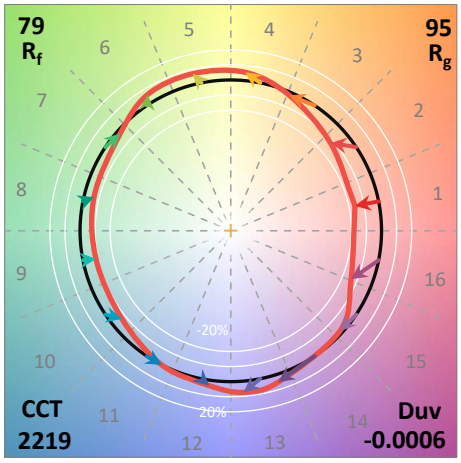
Spectral Power Distribution Comparison

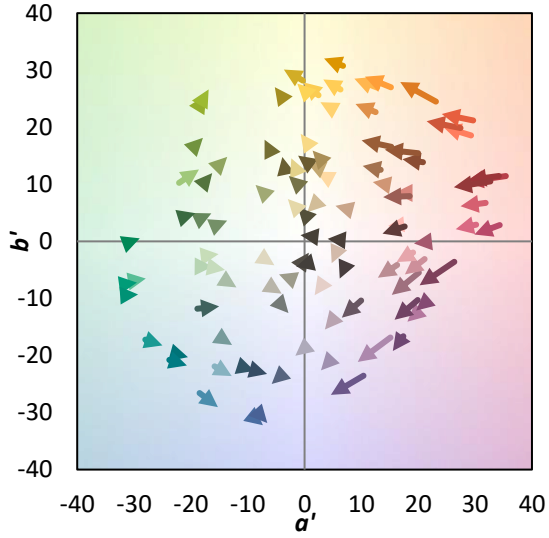


Color Vector Graphics







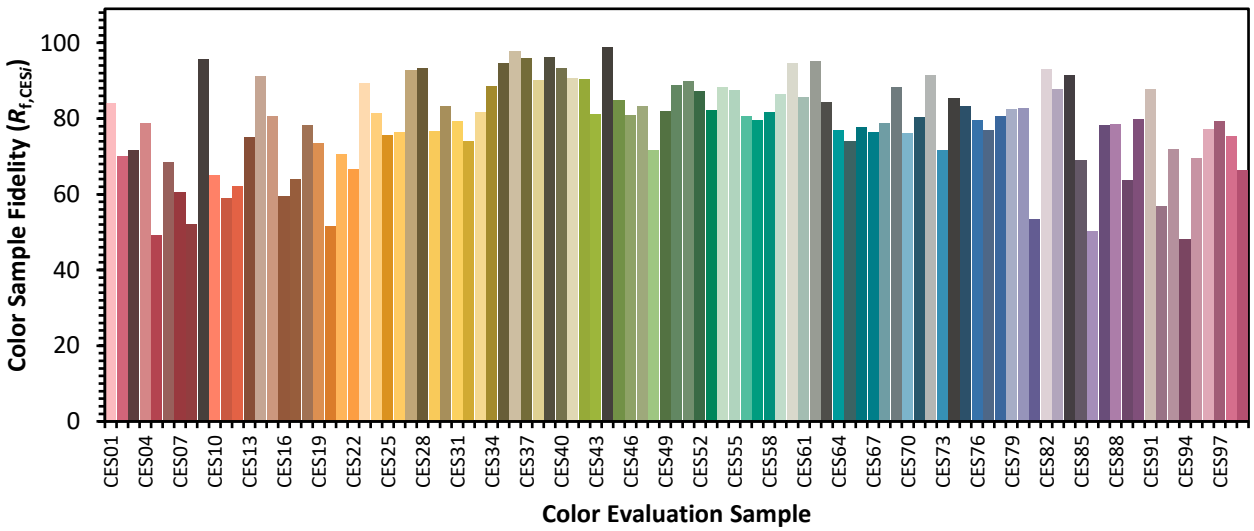


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

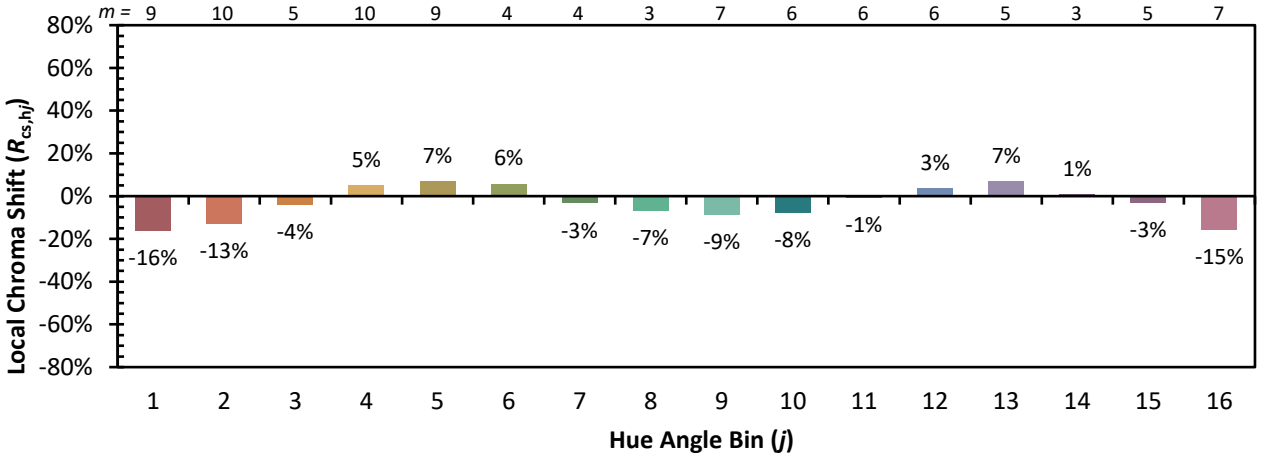
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

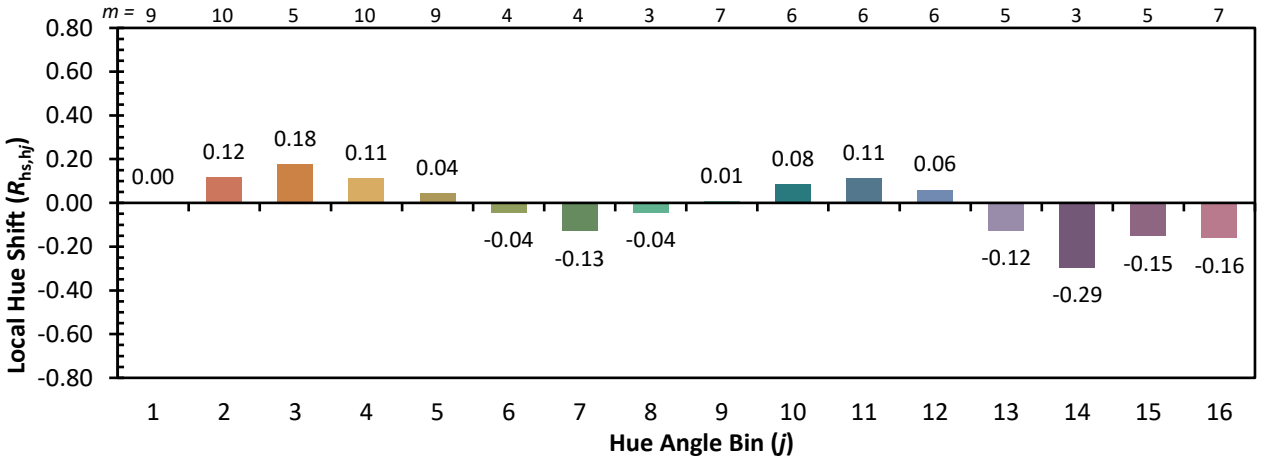


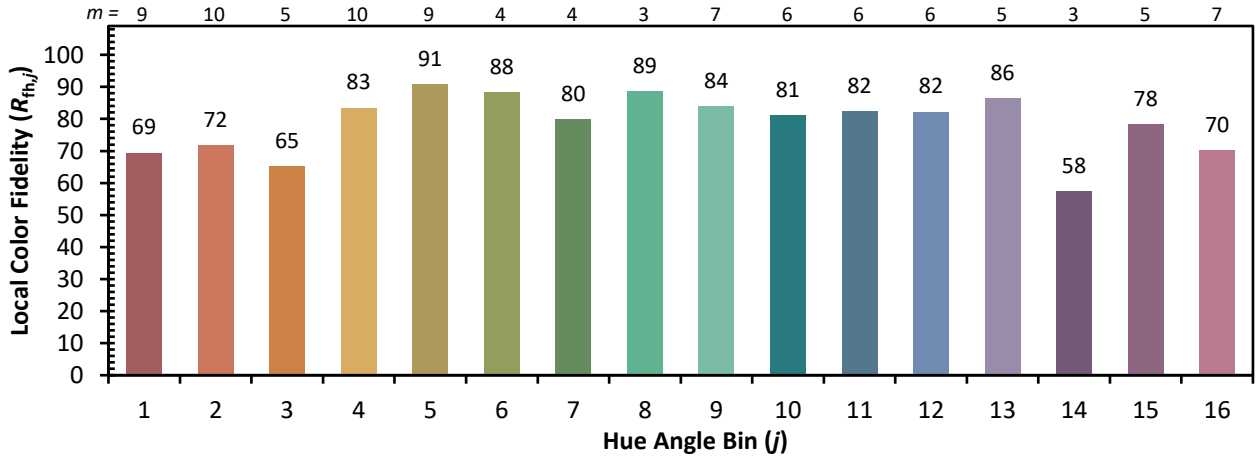
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Color Rendition by Hue-Angle Bin



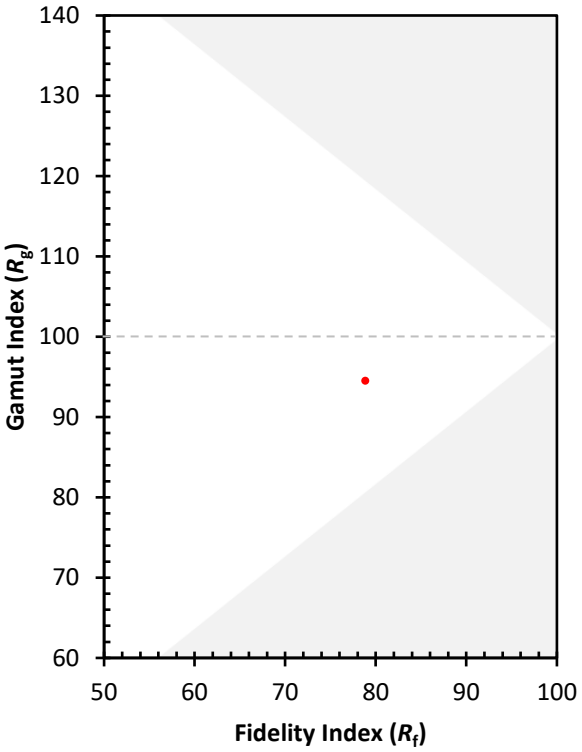


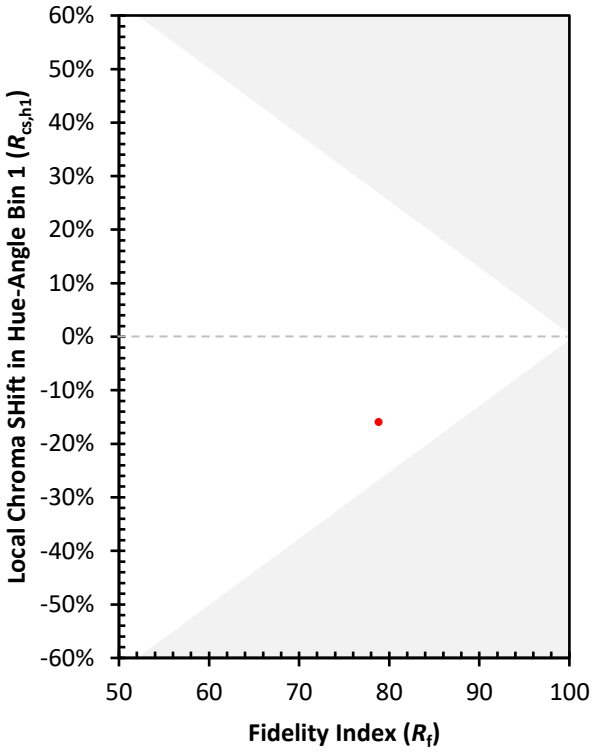


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Measure Comparisons





(END OF REPORT)