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: P1045779

Luminaire Tested: **FFX-CLB-80-722-U-FR-T5-HSS**

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:	P1045779
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-722-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:	7066 lumens
Efficiency:	N/A
Efficacy:	86.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U5 - G3

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

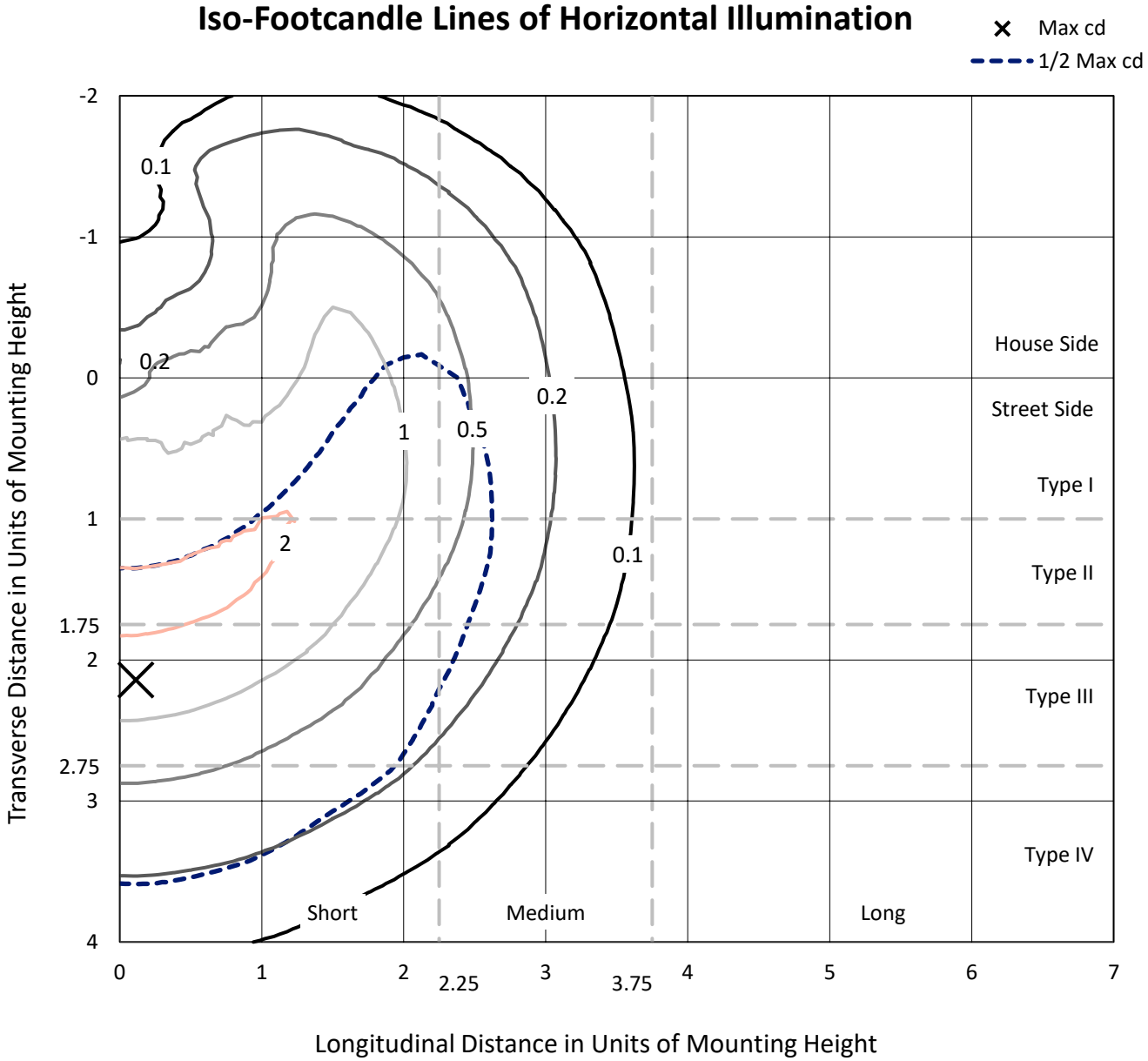


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Iso-Footcandle Lines of Horizontal Illumination



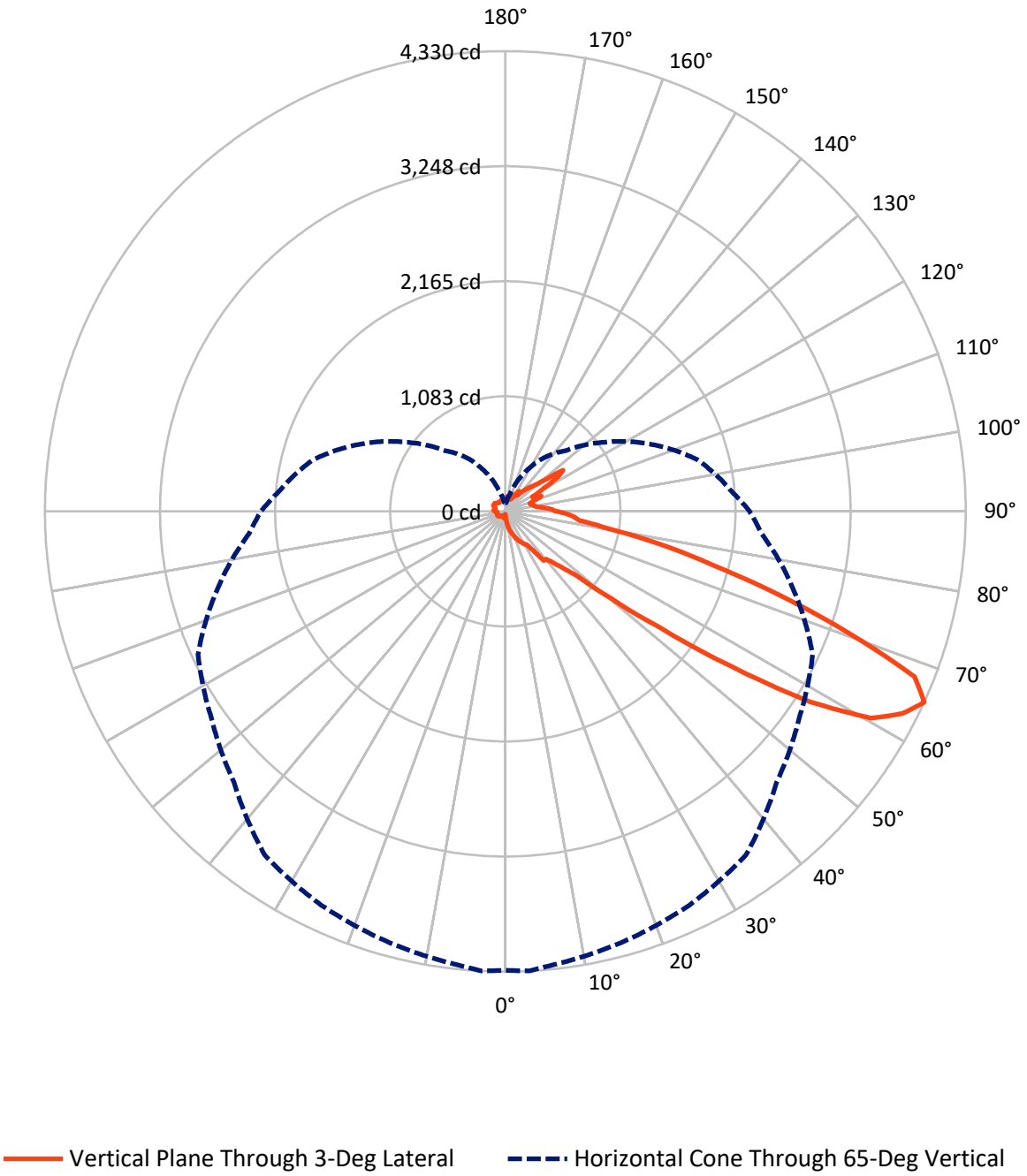
Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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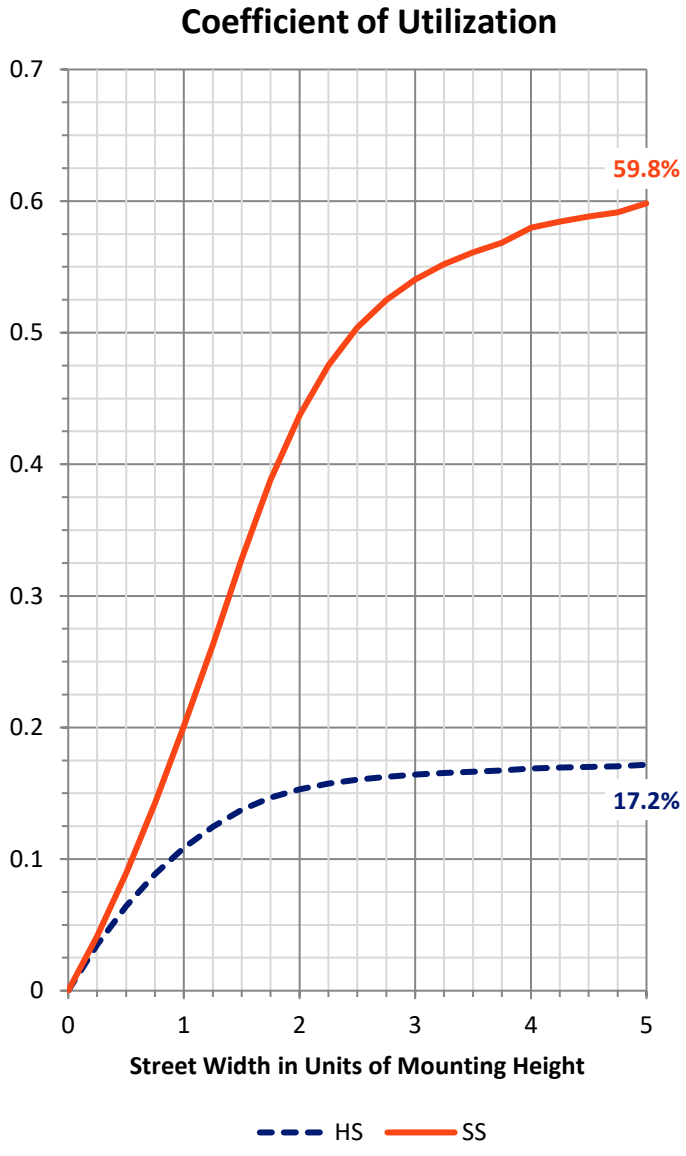
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1259.7	490.3	1750.0
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	4403.4	912.5	5316.0
	% Fixture	62.3	12.9	75.2
Total	Lumens	5663.1	1402.9	7066.0
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.1
10°-20°	40.0	0.6
20°-30°	88.2	1.2
30°-40°	176.0	2.5
40°-50°	379.8	5.4
50°-60°	1298.5	18.4
60°-70°	2110.1	29.9
70°-80°	1135.4	16.1
80°-90°	427.8	6.1
90°-100°	269.9	3.8
100°-110°	191.8	2.7
110°-120°	211.7	3.0
120°-130°	323.4	4.6
130°-140°	194.0	2.7
140°-150°	107.2	1.5
150°-160°	59.6	0.8
160°-170°	33.0	0.5
170°-180°	12.2	0.2
0°-90°	5663.1	80.1
0°-180°	7066.0	100.0



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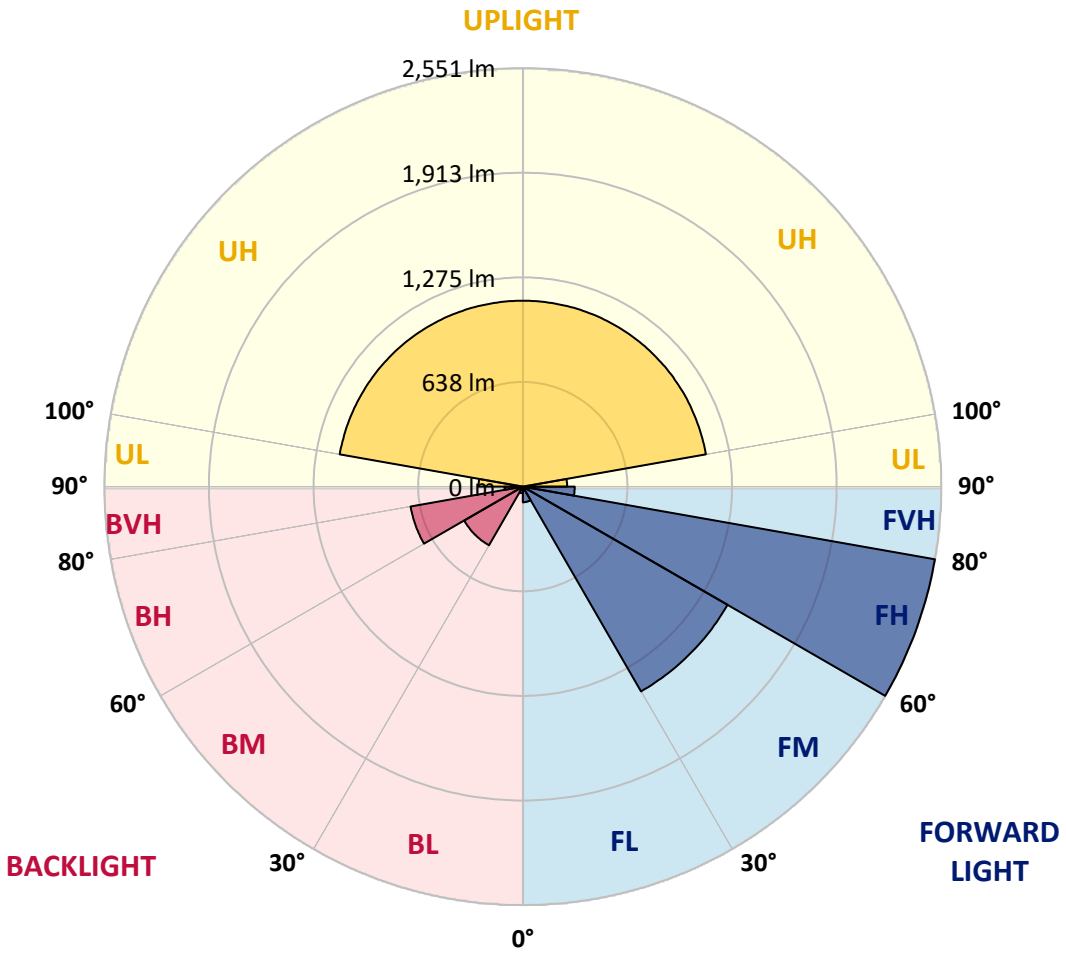
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	95.3	1.3			
FM	(30°-60°)	1441.2	20.4			
FH	(60°-80°)	2550.7	36.1			G2/5000
FVH	(80°-90°)	316.2	4.5			G3/500
BL	(0°-30°)	40.2	0.6	B0/110		
BM	(30°-60°)	413.0	5.8	B1/1000		
BH	(60°-80°)	694.8	9.8	B2/1000		G2/1000
BVH	(80°-90°)	111.6	1.6			G2/225
UL	(90°-100°)	269.9	3.8		U3/500	
UH	(100°-180°)	1133.0	16.0		U5	

BUG Rating: B2-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
2.5°	56.2	57.0	57.0	57.0	58.6	59.4	58.6	56.2	53.0	51.4	49.9
5°	81.5	83.1	82.3	82.3	80.7	80.7	78.4	76.8	75.2	69.7	64.1
7.5°	113.2	111.6	110.8	109.2	110.0	106.1	102.9	102.9	100.5	95.0	86.3
10°	146.4	146.4	144.1	143.3	141.7	140.1	134.6	131.4	131.4	121.9	111.6
12.5°	182.8	182.0	182.8	181.3	178.9	174.9	168.6	161.5	157.5	148.8	133.8
15°	206.6	205.8	205.8	205.0	203.4	199.5	194.7	187.6	177.3	168.6	154.3
17.5°	231.9	230.3	230.3	226.4	223.2	218.5	214.5	207.4	194.7	178.9	165.4
20°	259.6	259.6	259.6	254.1	247.7	241.4	235.9	229.5	220.0	196.3	177.3
22.5°	285.7	286.5	285.7	280.2	274.7	264.4	255.7	247.7	238.2	214.5	191.5
25°	311.1	312.6	311.9	311.9	304.7	291.3	279.4	267.5	261.2	237.5	205.8
27.5°	333.2	334.0	334.8	338.8	334.8	319.8	300.8	286.5	281.8	255.7	217.7
30°	354.6	357.0	357.0	360.9	360.1	343.5	320.6	304.7	295.2	269.9	229.5
32.5°	375.2	376.8	377.6	387.1	386.3	364.1	344.3	326.9	311.1	292.1	250.1
35°	449.6	447.2	459.1	466.2	460.7	440.9	417.1	384.7	362.5	340.4	295.2
37.5°	588.1	586.5	586.5	570.7	548.5	525.6	519.2	485.2	458.3	429.8	368.1
40°	592.1	592.1	594.4	611.8	622.9	593.6	565.9	532.7	527.1	497.9	422.7
42.5°	649.8	656.2	662.5	674.4	694.2	675.2	643.5	590.5	565.1	535.1	471.0
45°	748.0	757.5	754.3	759.1	754.3	737.7	735.3	706.0	668.0	610.3	524.0
47.5°	910.2	904.7	901.5	920.5	951.4	920.5	913.4	866.7	793.9	720.3	622.1
50°	1309.2	1285.4	1310.0	1306.0	1300.5	1272.0	1250.6	1203.9	1085.2	965.6	824.0
52.5°	1843.4	1804.7	1826.8	1841.9	1826.0	1785.7	1721.5	1630.5	1470.6	1316.3	1129.5
55°	2619.9	2566.1	2573.2	2592.2	2603.3	2511.5	2419.7	2218.6	1978.8	1740.5	1537.9
57.5°	3477.1	3380.6	3443.9	3337.8	3294.3	3130.4	3052.9	2849.5	2567.7	2249.5	1922.6
60°	3959.9	3949.7	3937.8	3855.5	3809.6	3625.9	3443.9	3253.1	3000.6	2624.7	2242.4
62.5°	4169.7	4191.9	4174.4	4131.7	4090.5	3929.1	3612.5	3386.1	3181.1	2794.8	2413.3
65°	4317.7	4330.4	4301.1	4202.1	4090.5	3946.5	3608.5	3377.4	3189.8	2800.4	2420.4
67.5°	4148.3	4150.7	4115.1	3986.9	3760.5	3633.8	3306.2	3104.3	2920.7	2588.3	2232.9
70°	3417.0	3424.1	3401.9	3287.9	3098.0	2988.0	2672.2	2464.8	2326.3	2096.7	1834.7
72.5°	2663.4	2694.3	2662.7	2617.5	2437.1	2355.5	2143.4	1975.6	1848.2	1632.1	1420.8
75°	2002.5	2009.7	2010.4	1959.8	1864.8	1846.6	1701.0	1590.2	1479.3	1302.0	1146.9
77.5°	1452.4	1484.1	1473.0	1464.3	1340.0	1347.2	1289.4	1223.7	1154.0	1036.1	925.3
80°	964.1	980.7	960.9	965.6	949.0	945.1	891.2	846.9	804.2	749.6	706.0
82.5°	702.9	699.7	698.1	689.4	676.7	679.1	652.2	597.6	546.1	535.1	494.7
85°	649.8	647.5	645.1	629.3	602.3	585.7	570.7	548.5	516.9	467.0	414.8
87.5°	568.3	569.1	563.6	546.9	529.5	524.8	512.9	498.7	482.8	445.6	399.7
90°	467.8	465.4	466.2	456.7	459.9	458.3	440.1	422.7	416.3	384.7	357.8
92.5°	432.2	429.8	430.6	423.5	412.4	410.0	390.2	368.8	359.3	339.6	319.0
95°	360.9	360.9	357.8	354.6	349.1	341.1	330.9	316.6	309.5	293.7	273.1
97.5°	303.1	300.0	302.4	296.8	292.1	288.9	281.0	266.7	259.6	247.7	231.9
100°	281.8	281.8	281.0	278.6	266.7	260.4	251.7	238.2	232.7	222.4	210.5
102.5°	269.9	269.1	268.3	265.9	254.9	243.8	232.7	224.8	218.5	209.8	197.1
105°	247.0	247.0	248.5	247.7	239.8	232.7	220.8	213.7	207.4	198.7	186.8
107.5°	244.6	243.8	243.8	234.3	224.0	220.0	211.3	205.0	199.5	190.8	177.3
110°	280.2	281.8	284.2	268.3	243.8	233.5	220.8	213.7	207.4	196.3	182.0

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	367.3	*367.3*	365.7	357.0	314.2	285.7	279.4	261.2	250.9	234.3	214.5
115°	330.1	*330.9*	330.1	332.4	329.3	293.7	300.0	269.9	287.3	248.5	235.1
117.5°	288.1	*287.3*	284.2	284.9	288.1	311.1	261.2	254.1	261.2	226.4	214.5
120°	402.1	*395.0*	402.1	372.8	368.1	372.0	343.5	338.0	307.9	265.9	234.3
122.5°	592.1	*581.0*	596.8	586.5	594.4	568.3	540.6	517.7	484.4	414.0	350.6
125°	668.8	*666.5*	662.5	648.2	635.6	624.5	629.3	638.0	619.8	562.8	489.2
127.5°	492.3	*498.7*	496.3	524.8	552.5	546.1	529.5	537.4	546.9	543.8	500.2
130°	392.6	*398.1*	401.3	429.0	452.7	452.7	425.8	418.7	426.6	443.2	426.6
132.5°	344.3	*345.9*	347.5	357.0	376.8	386.3	369.6	358.6	361.7	370.4	356.2
135°	310.3	*309.5*	307.1	300.8	302.4	311.9	319.0	317.4	315.0	315.0	307.1
137.5°	269.1	*268.3*	268.3	258.8	254.9	262.8	273.1	282.6	276.2	267.5	258.0
140°	224.0	*223.2*	224.0	229.5	231.1	231.9	237.5	237.5	237.5	236.7	232.7
142.5°	186.0	*186.8*	188.4	202.6	209.8	209.8	202.6	196.3	195.5	200.3	201.0
145°	228.7	*228.7*	229.5	228.7	224.0	219.2	214.5	214.5	209.8	198.7	193.1
147.5°	204.2	*207.4*	205.0	207.4	209.0	209.8	209.0	211.3	212.1	205.8	197.1
150°	160.7	*159.9*	158.3	160.7	164.6	169.4	171.0	172.6	173.3	173.3	173.3
152.5°	139.3	*140.1*	139.3	141.7	144.1	144.8	147.2	147.2	148.0	147.2	145.6
155°	135.3	*135.3*	135.3	135.3	136.1	137.7	140.9	142.5	140.9	138.5	134.6
157.5°	125.9	*125.9*	125.9	126.6	128.2	129.8	132.2	133.8	133.8	132.2	129.0
160°	120.3	*120.3*	120.3	120.3	121.9	123.5	125.1	126.6	126.6	125.9	123.5
162.5°	114.0	*114.0*	114.0	114.8	116.4	117.9	119.5	121.1	120.3	120.3	118.7
165°	113.2	*113.2*	113.2	114.0	115.6	117.9	118.7	118.7	119.5	119.5	119.5
167.5°	116.4	*116.4*	117.1	117.1	118.7	119.5	121.1	121.9	122.7	121.9	121.9
170°	121.1	*121.1*	121.1	121.9	122.7	122.7	123.5	123.5	124.3	124.3	124.3
172.5°	127.4	*127.4*	127.4	127.4	126.6	126.6	126.6	126.6	127.4	126.6	127.4
175°	134.6	*134.6*	134.6	133.8	133.0	133.0	132.2	132.2	131.4	130.6	130.6
177.5°	135.3	*135.3*	135.3	135.3	134.6	133.8	133.8	133.0	132.2	132.2	132.2
180°	132.2	*132.2*	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
2.5°	48.3	46.7	42.7	39.6	37.2	34.0	31.7	29.3	27.7	26.9	26.1
5°	63.3	60.2	55.4	50.7	46.7	41.2	38.0	32.5	28.5	26.9	26.1
7.5°	83.1	80.7	78.4	77.6	76.0	68.9	58.6	50.7	49.1	47.5	49.1
10°	106.1	101.3	94.2	98.1	98.1	84.7	70.4	62.5	61.7	64.9	65.7
12.5°	127.4	121.1	112.4	111.6	102.9	84.7	69.7	61.7	60.9	61.7	62.5
15°	147.2	140.1	130.6	122.7	109.2	90.2	72.8	62.5	60.2	62.5	62.5
17.5°	158.3	151.2	137.7	122.7	106.9	89.4	72.0	60.9	55.4	52.2	52.2
20°	171.8	166.2	148.0	129.0	107.6	88.6	71.2	59.4	53.0	49.9	49.1
22.5°	183.6	177.3	157.5	136.9	112.4	88.6	68.9	58.6	53.0	49.9	49.1
25°	197.9	188.4	168.6	145.6	116.4	88.6	68.9	59.4	53.8	50.7	49.9
27.5°	207.4	196.3	177.3	152.0	121.1	90.2	71.2	60.2	53.8	50.7	50.7
30°	216.9	206.6	184.4	160.7	126.6	94.2	75.2	63.3	56.2	52.2	52.2
32.5°	235.9	222.4	195.5	167.8	131.4	97.4	79.2	66.5	58.6	54.6	54.6
35°	278.6	259.6	227.2	188.4	137.7	100.5	83.1	70.4	60.2	55.4	55.4
37.5°	343.5	319.8	280.2	227.2	153.6	105.3	86.3	72.0	61.7	57.8	57.0
40°	386.3	357.0	309.5	258.0	176.5	113.2	90.2	74.4	63.3	58.6	57.8
42.5°	437.7	402.1	338.8	267.5	188.4	129.8	98.1	78.4	65.7	59.4	58.6
45°	484.4	454.3	395.0	312.6	222.4	154.3	112.4	85.5	69.7	61.7	60.9
47.5°	579.4	532.7	453.5	368.8	265.2	191.5	136.9	96.6	76.0	64.9	63.3
50°	764.6	716.3	620.5	489.2	342.7	243.8	176.5	117.1	83.9	68.1	65.7
52.5°	1038.5	949.8	843.0	665.7	486.0	352.2	250.1	165.4	99.7	71.2	67.3
55°	1404.9	1354.3	1165.1	939.5	692.6	527.1	384.7	257.2	148.8	75.2	68.1
57.5°	1825.2	1724.7	1552.2	1271.2	926.1	671.2	520.0	383.1	219.2	87.9	72.0
60°	2095.9	1991.4	1793.6	1509.4	1127.1	800.2	592.8	426.6	248.5	90.2	75.2
62.5°	2270.9	2124.4	1873.5	1541.1	1185.7	853.3	626.1	405.3	212.1	87.9	77.6
65°	*2297.8*	*2138.7*	*1873.5*	*1497.5*	*1132.7*	*809.7*	*605.5*	*374.4*	*167.0*	*83.9*	*80.7*
67.5°	2138.7	1966.1	1746.1	1373.3	1016.3	694.2	520.0	305.5	126.6	81.5	79.9
70°	1731.8	1623.4	1423.1	1119.2	811.3	568.3	414.0	234.3	102.9	79.2	78.4
72.5°	1323.4	1245.1	1105.0	872.2	625.3	438.5	315.8	184.4	92.6	77.6	76.8
75°	1053.5	982.3	868.3	672.0	477.3	338.0	235.9	141.7	84.7	77.6	76.0
77.5°	869.1	806.6	703.7	532.7	348.3	252.5	178.9	114.8	83.1	77.6	76.8
80°	668.8	623.7	546.9	387.1	249.3	189.2	142.5	102.1	83.1	79.2	78.4
82.5°	474.1	456.7	398.9	301.6	209.8	164.6	131.4	100.5	84.7	80.7	79.9
85°	394.2	373.6	332.4	262.8	195.5	159.1	129.8	102.9	88.6	85.5	84.7
87.5°	379.9	366.5	326.1	254.1	187.6	152.0	124.3	100.5	88.6	87.1	87.9
90°	343.5	328.5	297.6	236.7	179.7	151.2	126.6	104.5	91.8	90.2	89.4
92.5°	311.9	303.1	276.2	228.7	185.2	156.7	133.8	114.0	103.7	100.5	100.5
95°	266.7	258.0	243.0	209.8	176.5	153.6	133.8	116.4	107.6	106.1	105.3
97.5°	227.2	221.6	209.0	182.8	156.7	137.7	120.3	106.9	99.7	97.4	97.4
100°	207.4	202.6	192.3	174.9	155.1	139.3	125.1	113.2	106.9	105.3	105.3
102.5°	193.1	189.2	179.7	167.0	149.6	136.9	125.1	114.8	107.6	106.1	106.9
105°	181.3	177.3	167.8	155.1	140.9	127.4	118.7	110.8	102.9	100.5	100.5
107.5°	172.6	168.6	160.7	148.0	136.1	124.3	114.8	108.4	102.1	100.5	100.5
110°	176.5	171.0	159.1	145.6	135.3	125.1	117.1	110.8	106.1	103.7	103.7

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

Scaled Data Report

REPORT NUMBER: P1045779
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	206.6	197.9	178.1	159.1	145.6	133.8	125.1	116.4	112.4	109.2	109.2
115°	226.4	217.7	197.9	174.9	155.1	138.5	126.6	119.5	114.8	117.9	116.4
117.5°	206.6	200.3	185.2	168.6	152.8	138.5	128.2	123.5	120.3	124.3	125.9
120°	227.2	215.3	203.4	184.4	155.1	135.3	128.2	126.6	126.6	123.5	123.5
122.5°	324.5	304.7	260.4	228.0	187.6	165.4	152.0	139.3	126.6	121.9	121.1
125°	454.3	417.1	360.9	303.9	248.5	201.8	163.1	139.3	127.4	120.3	118.7
127.5°	478.1	445.6	394.2	325.3	250.1	197.1	162.3	144.1	130.6	122.7	121.9
130°	403.7	387.8	341.9	282.6	224.8	183.6	160.7	144.1	131.4	124.3	122.7
132.5°	342.7	331.6	288.9	241.4	200.3	170.2	149.6	131.4	119.5	113.2	111.6
135°	294.4	287.3	250.1	216.1	185.2	160.7	139.3	121.9	112.4	108.4	107.6
137.5°	252.5	245.4	220.0	196.3	172.6	151.2	133.8	118.7	110.0	107.6	106.9
140°	226.4	220.0	204.2	178.9	155.9	133.8	121.1	111.6	106.9	105.3	104.5
142.5°	197.1	190.0	172.6	154.3	138.5	121.1	112.4	108.4	106.1	104.5	103.7
145°	186.8	182.0	162.3	145.6	130.6	121.9	117.1	111.6	106.9	103.7	102.9
147.5°	189.2	183.6	166.2	150.4	136.9	127.4	119.5	111.6	105.3	102.1	101.3
150°	169.4	167.8	157.5	144.8	132.2	121.9	114.0	107.6	103.7	102.9	102.9
152.5°	141.7	140.9	136.1	129.0	120.3	112.4	106.9	103.7	103.7	105.3	106.1
155°	133.0	130.6	127.4	122.7	115.6	110.0	106.1	104.5	105.3	106.9	106.9
157.5°	128.2	125.9	122.7	118.7	114.8	110.0	106.9	106.1	107.6	109.2	109.2
160°	121.9	120.3	117.9	114.0	110.8	108.4	106.9	106.9	107.6	108.4	108.4
162.5°	117.9	116.4	114.0	111.6	110.0	109.2	108.4	107.6	108.4	109.2	109.2
165°	117.9	117.1	114.0	111.6	110.8	110.8	110.8	110.8	110.8	110.0	110.0
167.5°	121.1	120.3	117.9	116.4	115.6	116.4	116.4	115.6	114.8	113.2	113.2
170°	124.3	123.5	122.7	121.9	121.1	121.9	121.9	121.9	121.1	121.1	120.3
172.5°	127.4	126.6	125.9	125.1	125.1	125.1	125.9	126.6	126.6	126.6	126.6
175°	130.6	130.6	129.0	128.2	128.2	128.2	129.0	129.0	129.8	129.8	129.8
177.5°	132.2	132.2	132.2	132.2	133.0	132.2	132.2	131.4	131.4	131.4	131.4
180°	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2

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

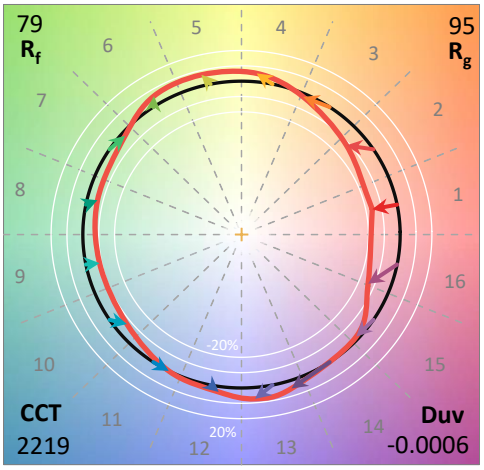
Test Information

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

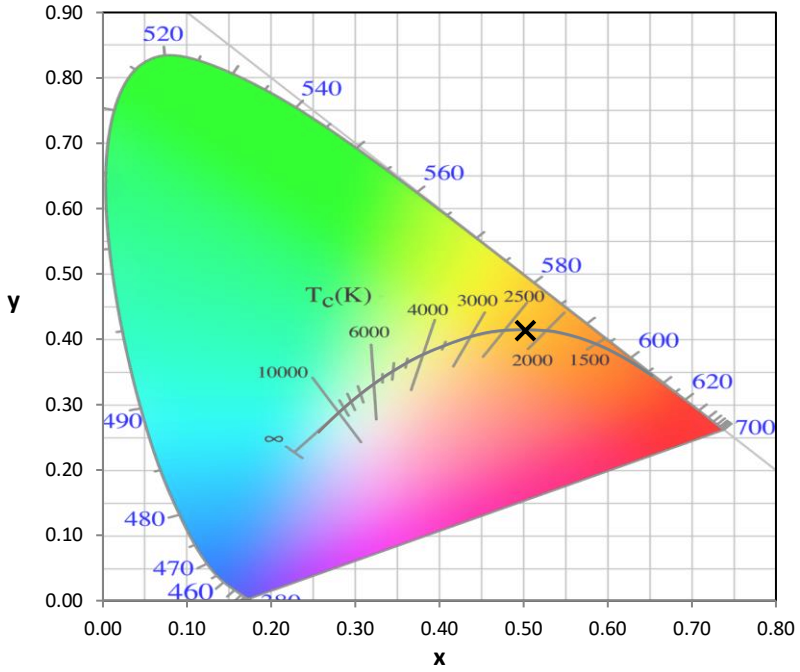
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

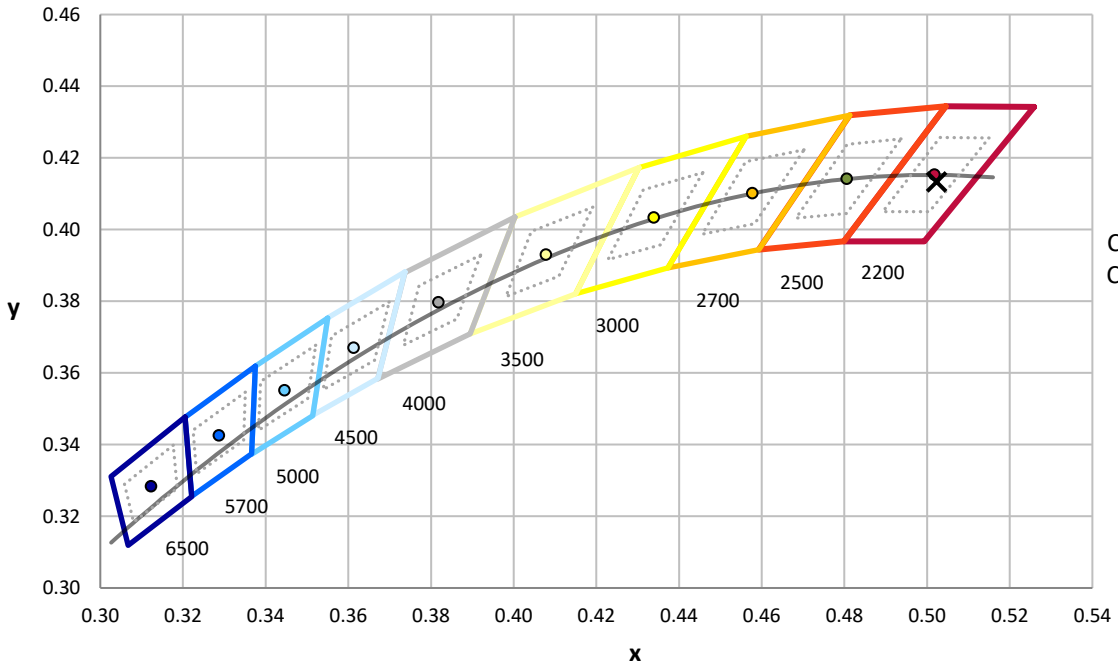
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

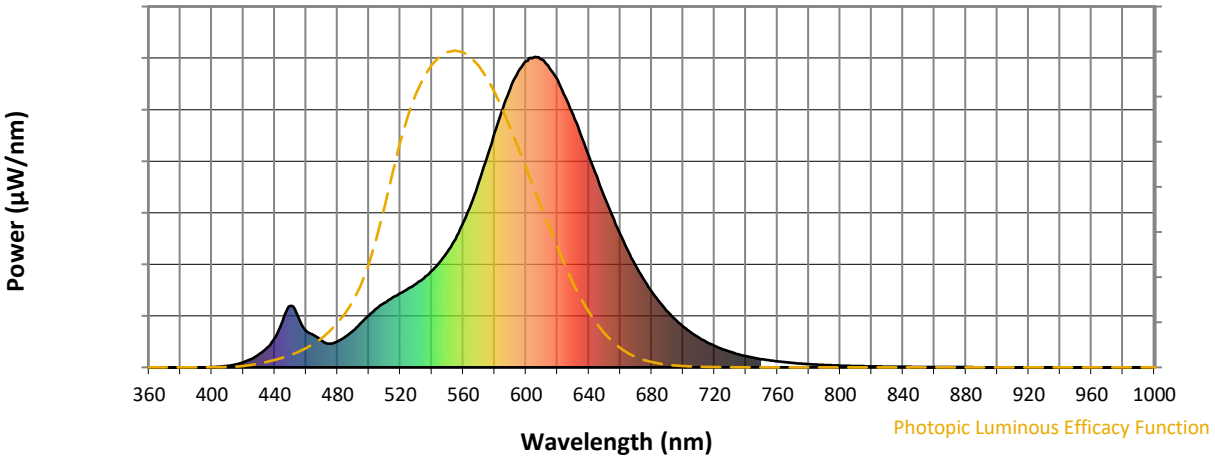


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

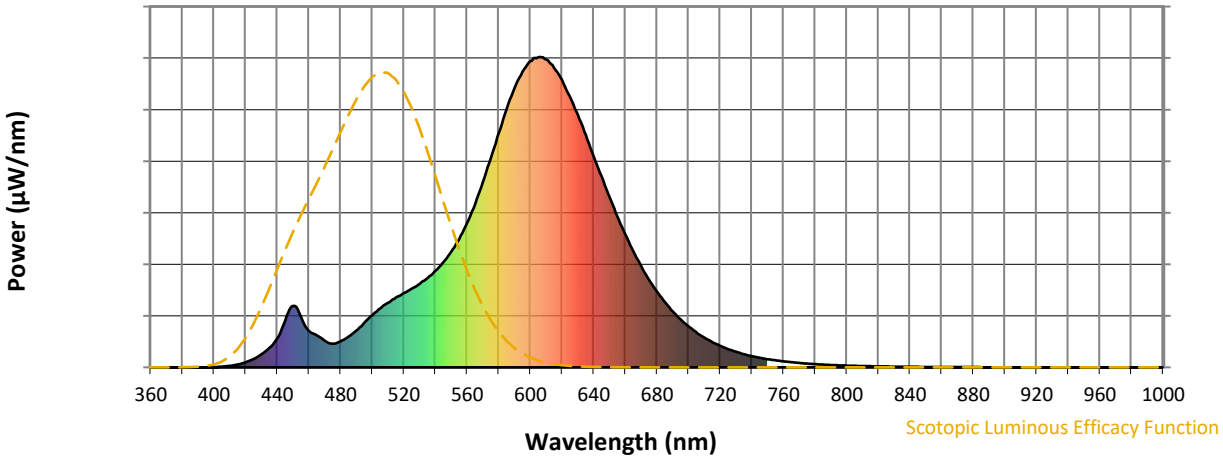


Photopic Lumens: NR

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

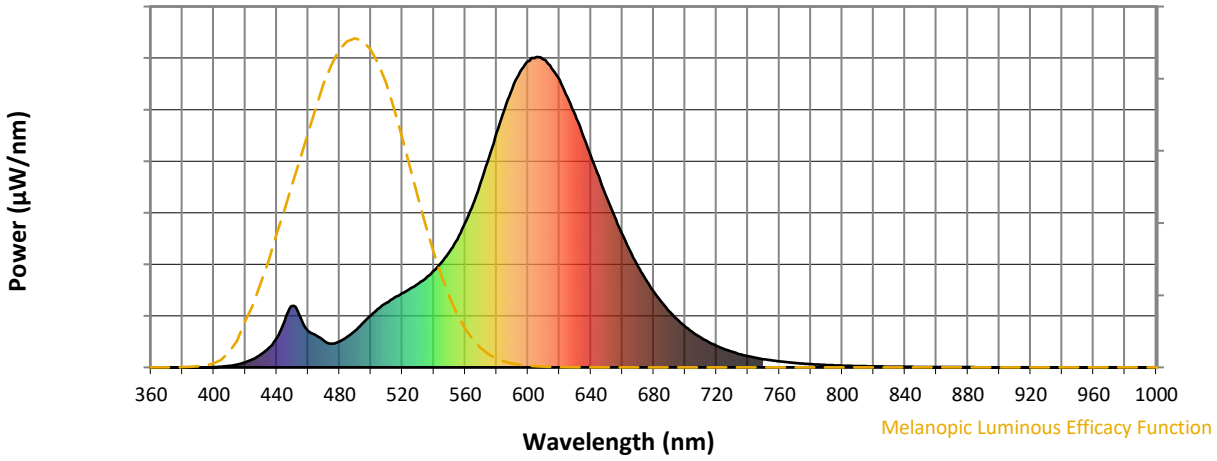


Scotopic Lumens: NR **S/P: 0.94**

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			

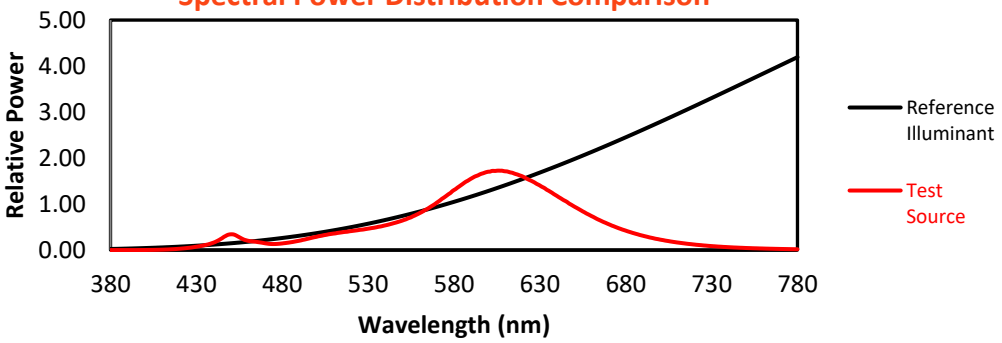
REPORT NUMBER: SP1-2501-332-2

TM-30-18

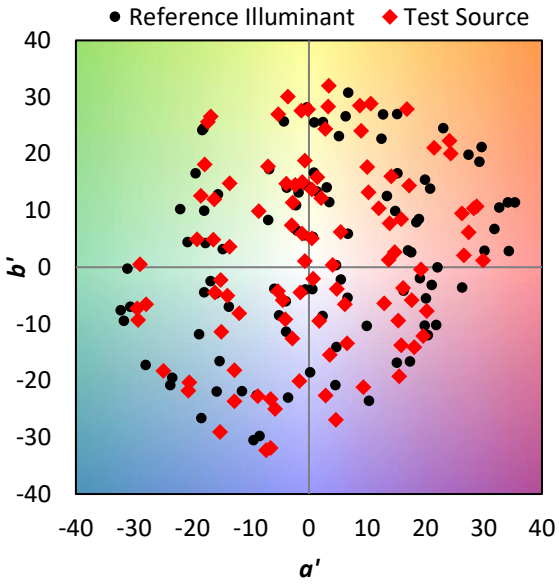
Summary

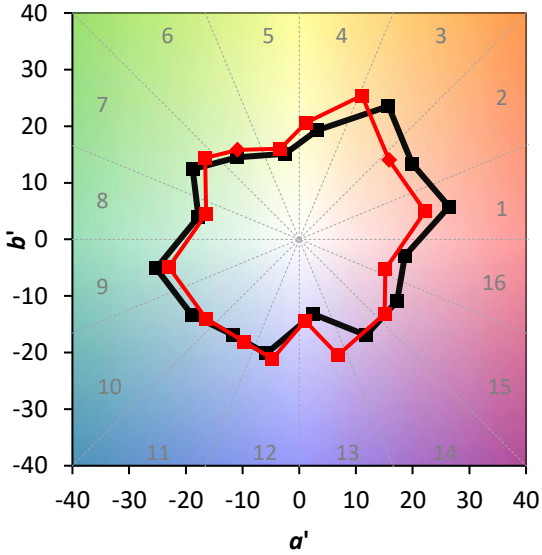
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

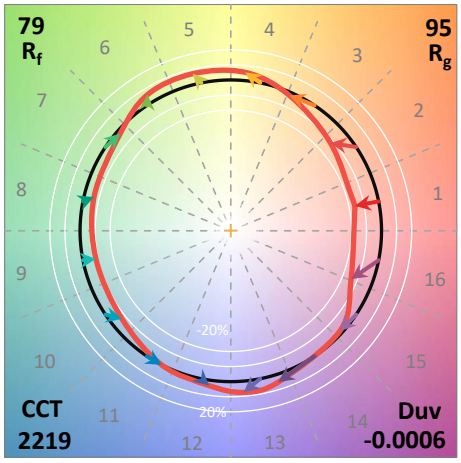
Spectral Power Distribution Comparison

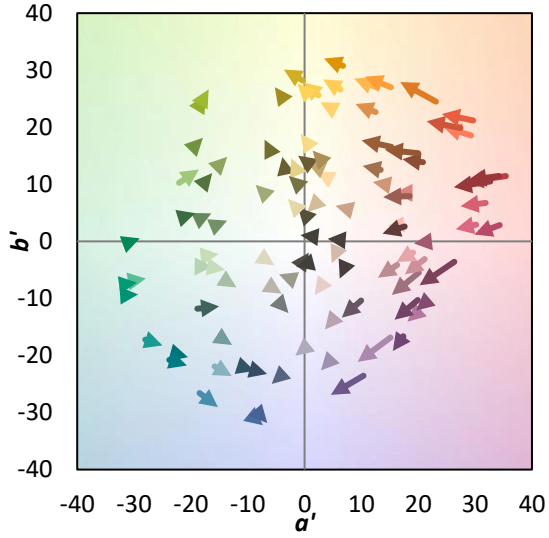


Color Vector Graphics







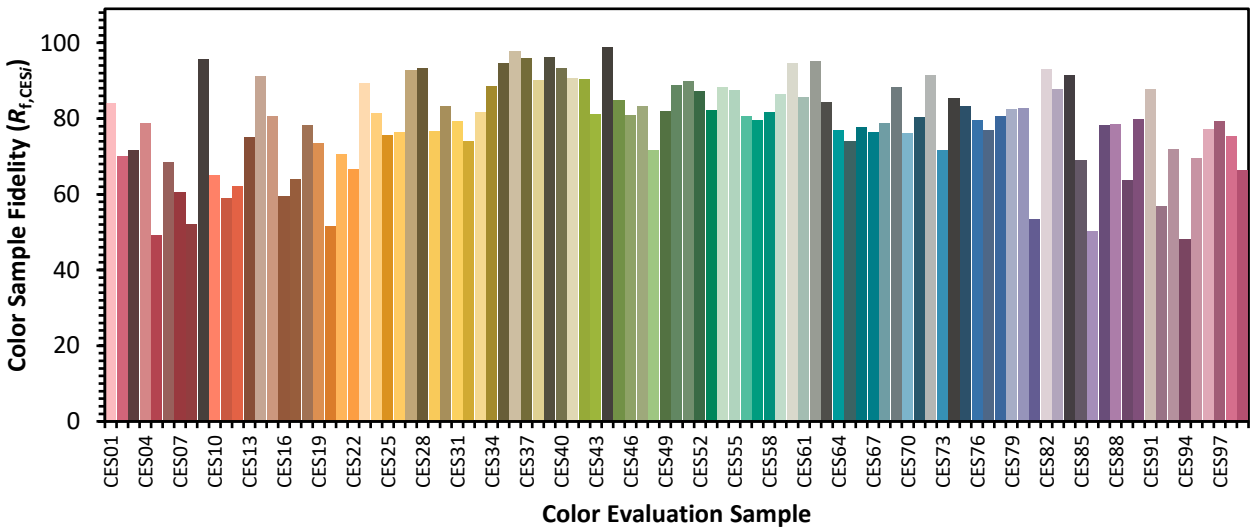


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

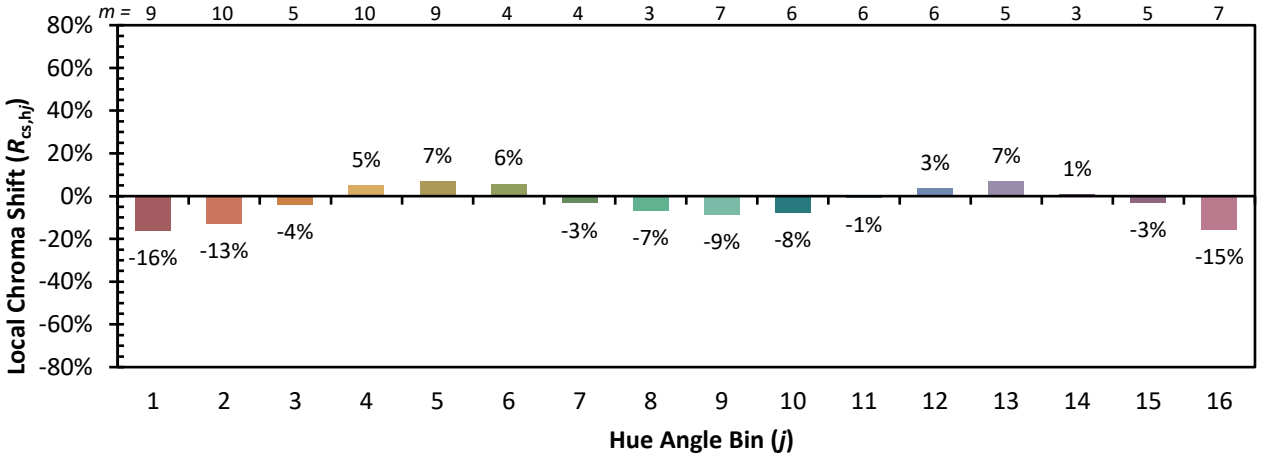
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 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	

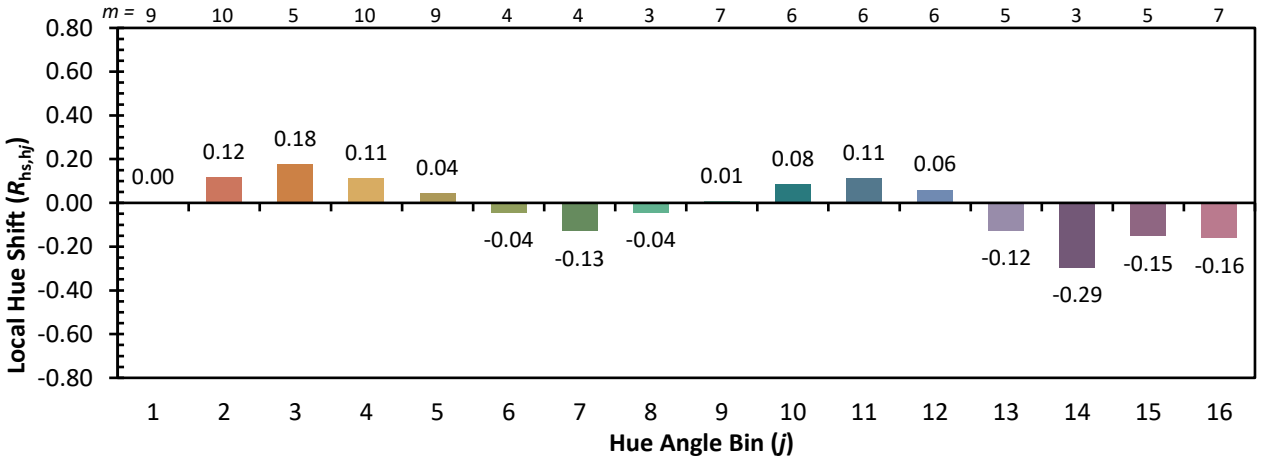


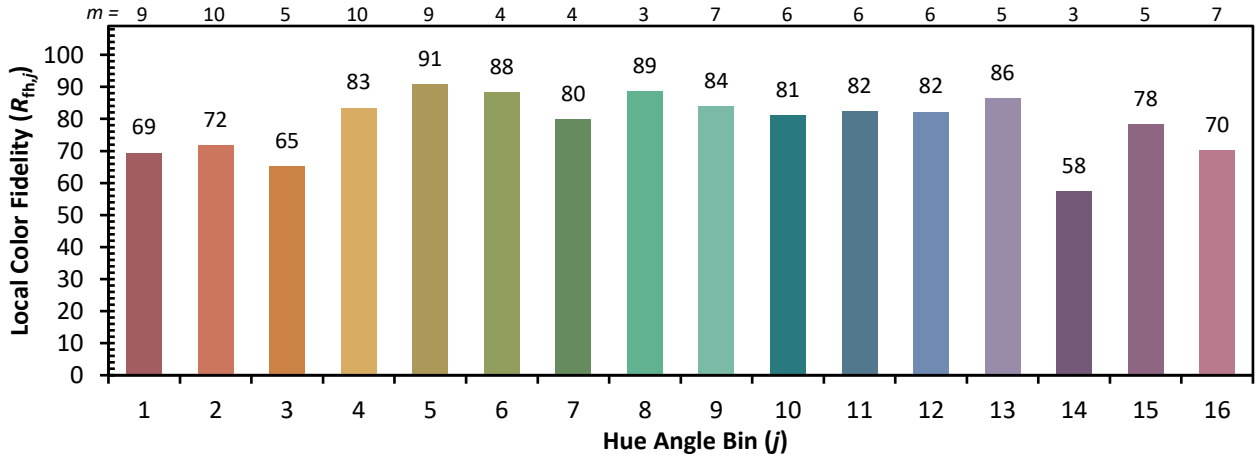
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Color Rendition by Hue-Angle Bin



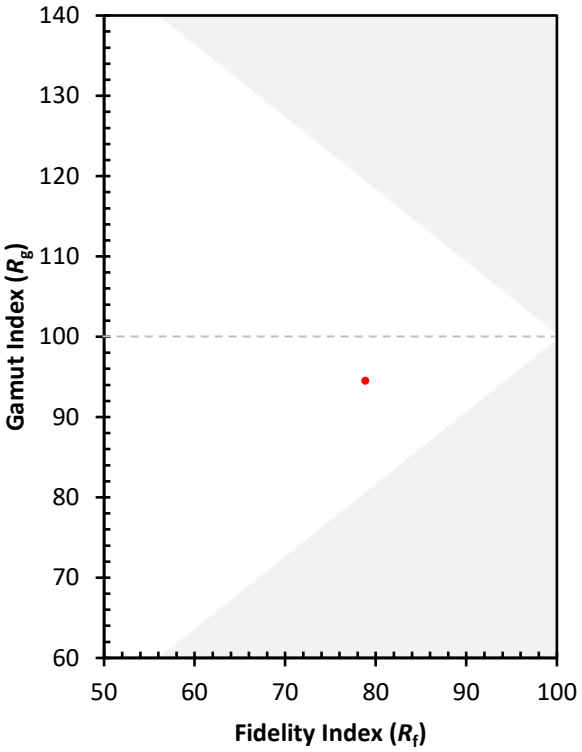


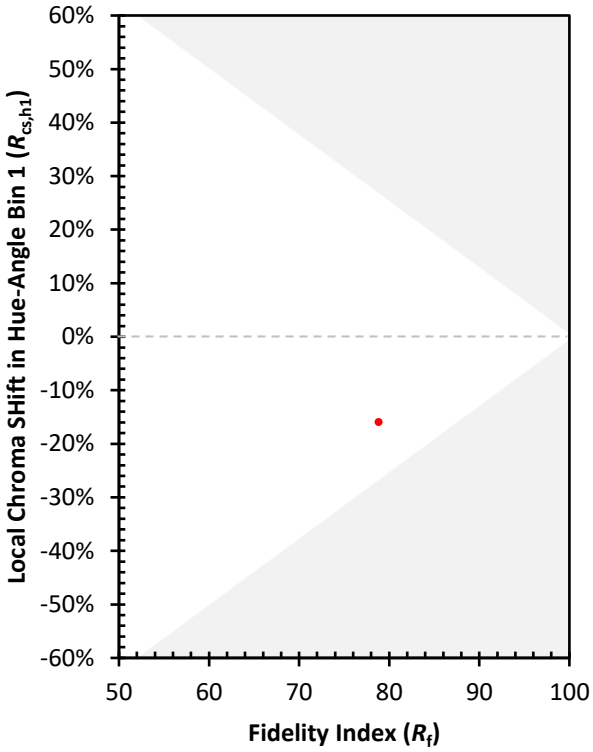


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Measure Comparisons





(END OF REPORT)