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: P1046546

Luminaire Tested: **FFX-CLB-60-722-U-FR-T3-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:	P1046546
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-722-U-FR-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7053.7 lumens
Efficiency:	N/A
Efficacy:	116.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U5 - G3

Input Watts (W):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

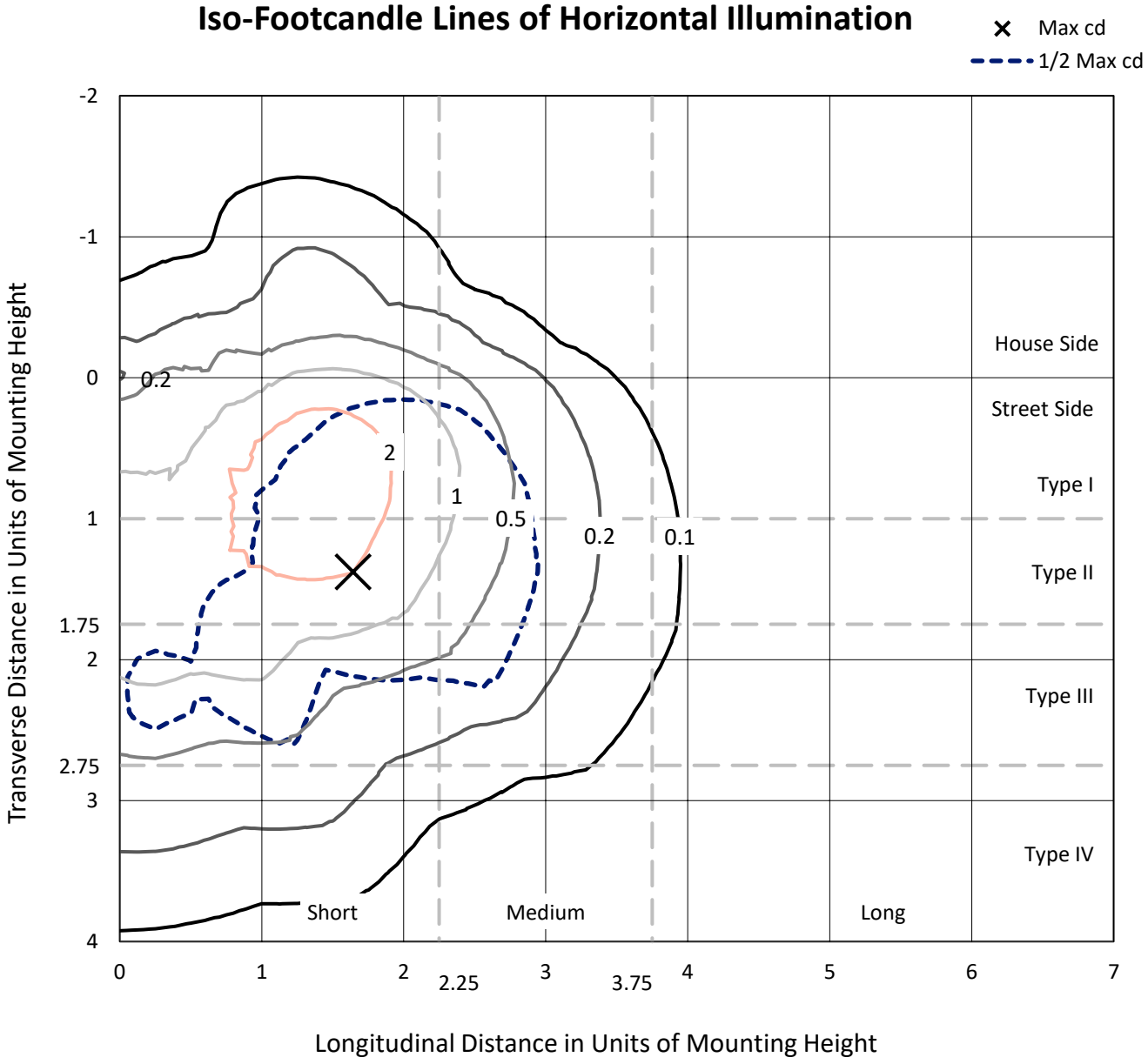


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Iso-Footcandle Lines of Horizontal Illumination



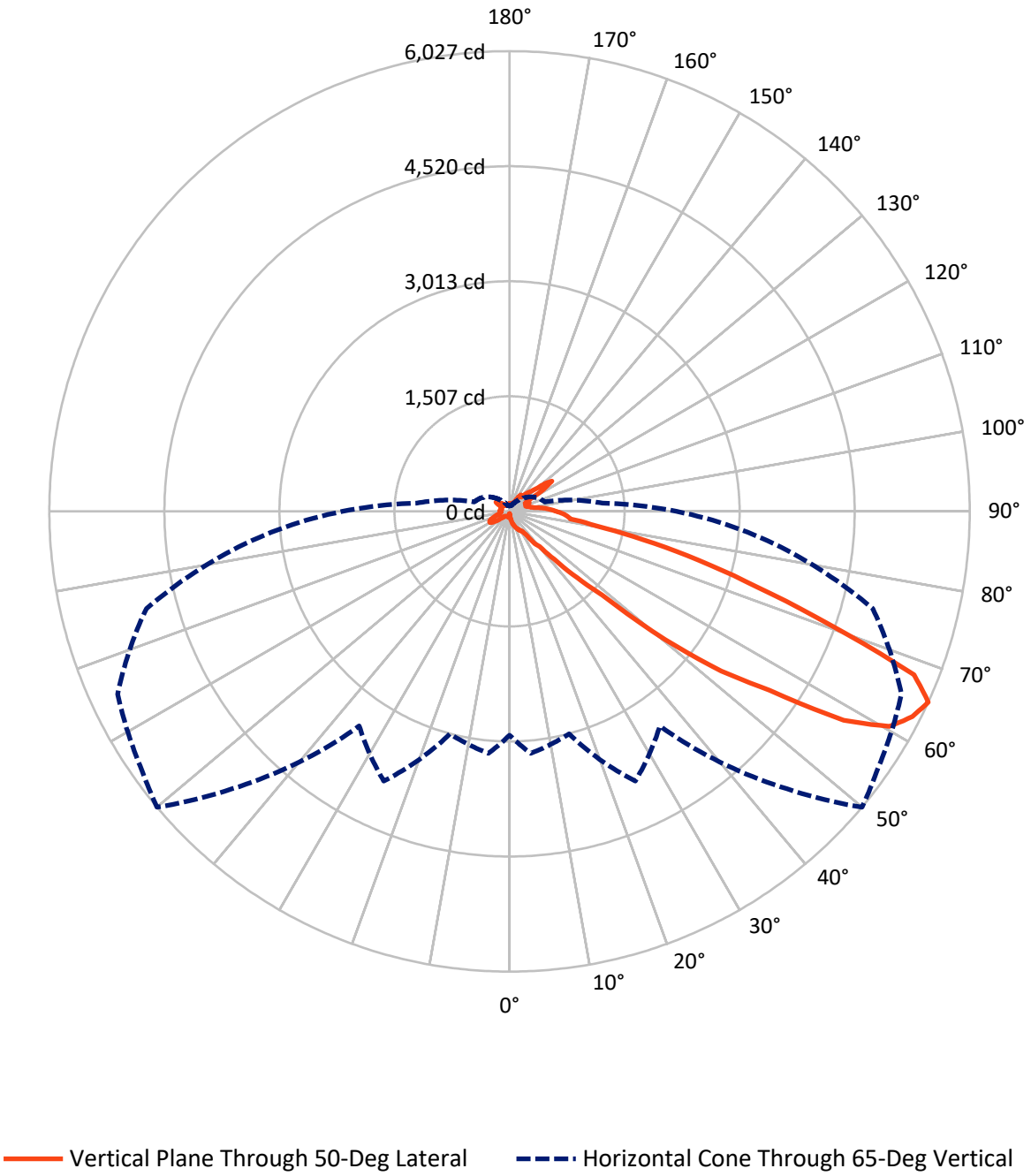
Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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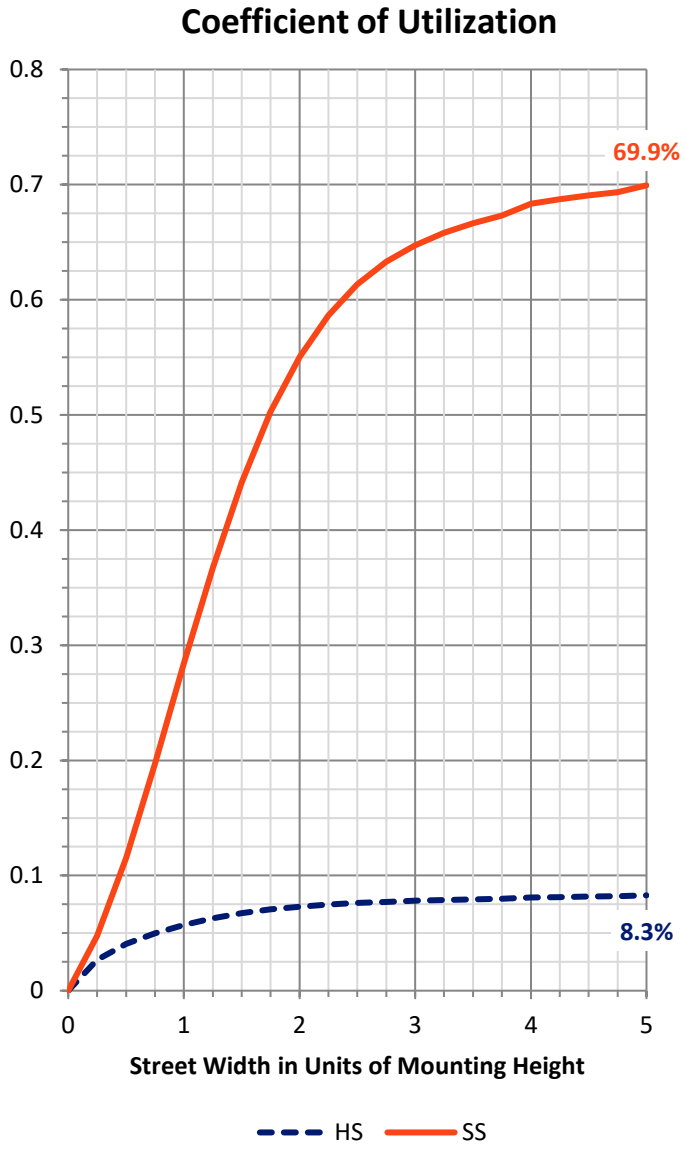
REPORT NUMBER: P1046546
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	618.7	407.3	1026.0
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	5102.4	925.2	6027.6
	% Fixture	72.3	13.1	85.5
Total	Lumens	5721.2	1332.5	7053.7
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.1
10°-20°	36.8	0.5
20°-30°	78.6	1.1
30°-40°	156.9	2.2
40°-50°	411.2	5.8
50°-60°	1362.3	19.3
60°-70°	2148.4	30.5
70°-80°	1121.8	15.9
80°-90°	398.4	5.6
90°-100°	257.1	3.6
100°-110°	173.4	2.5
110°-120°	197.9	2.8
120°-130°	327.9	4.6
130°-140°	187.3	2.7
140°-150°	102.6	1.5
150°-160°	50.2	0.7
160°-170°	26.6	0.4
170°-180°	9.6	0.1
0°-90°	5721.2	81.1
0°-180°	7053.7	100.0



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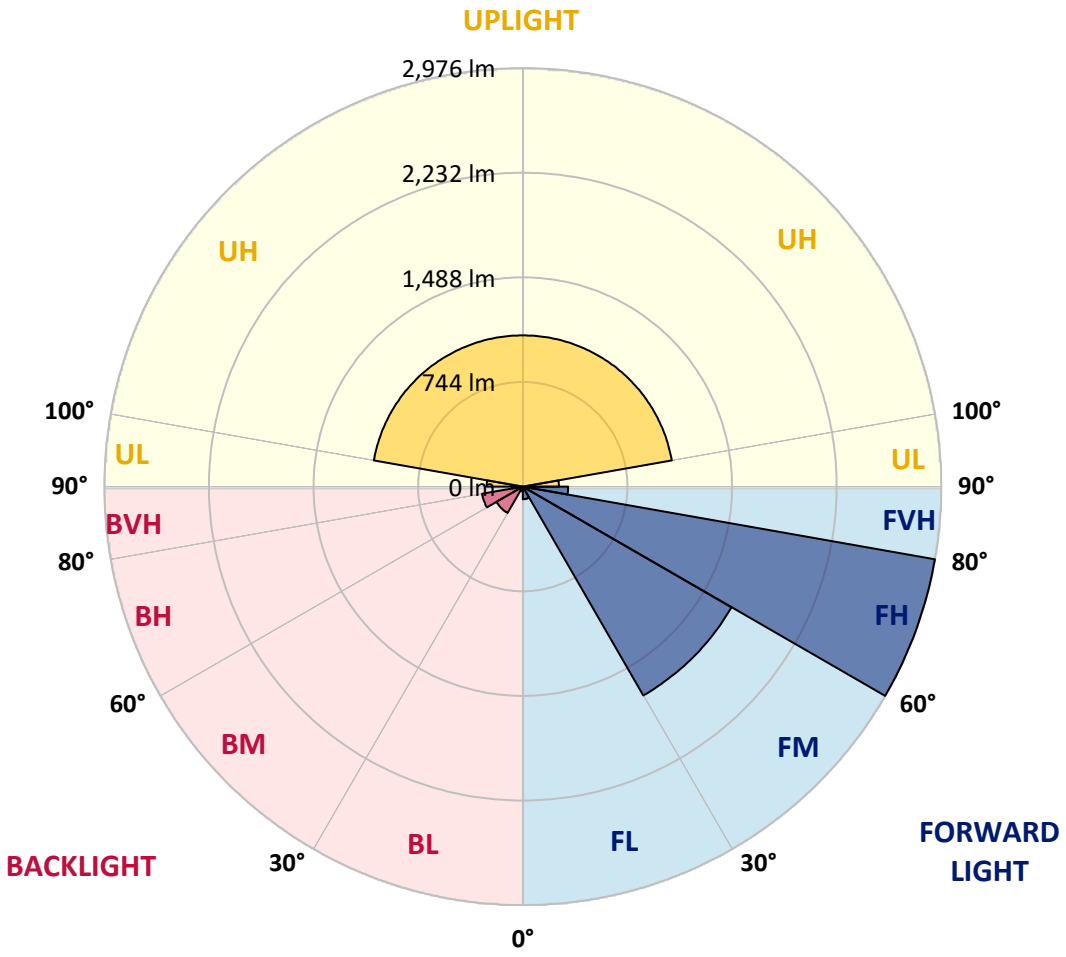
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	89.7	1.3			
FM	(30°-60°)	1714.2	24.3			
FH	(60°-80°)	2976.0	42.2			G2/5000
FVH	(80°-90°)	322.5	4.6			G3/500
BL	(0°-30°)	32.4	0.5	B0/110		
BM	(30°-60°)	216.3	3.1	B0/220		
BH	(60°-80°)	294.2	4.2	B1/500		G1/500
BVH	(80°-90°)	75.8	1.1			G1/100
UL	(90°-100°)	257.1	3.6		U3/500	
UH	(100°-180°)	1075.4	15.2		U5	

BUG Rating: B1-U5-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	47.9	47.4	48.4	49.9	49.4	47.9	46.9	46.4	44.9	44.4	42.9
5°	70.8	70.3	69.3	70.3	70.8	68.8	67.8	65.3	62.8	58.3	55.8
7.5°	99.2	99.7	100.7	98.2	97.2	92.7	91.7	89.2	85.2	79.8	78.3
10°	134.6	135.1	137.6	133.6	127.1	121.6	120.6	121.6	126.1	112.2	103.7
12.5°	169.5	168.0	175.5	173.5	165.0	157.0	153.0	153.5	151.5	141.1	127.1
15°	201.9	201.9	207.4	209.4	200.4	182.0	176.0	174.5	173.5	162.5	143.1
17.5°	222.3	223.3	223.8	223.8	220.8	205.4	198.4	195.4	186.4	176.5	158.5
20°	239.3	239.8	235.3	235.8	240.3	226.8	219.8	213.9	204.4	193.9	171.5
22.5°	262.7	261.7	254.7	251.7	261.7	250.2	242.8	236.3	224.8	212.9	192.4
25°	288.6	287.6	280.7	273.2	280.2	269.7	261.7	255.7	245.3	237.3	195.4
27.5°	313.6	312.6	300.6	299.6	293.6	288.6	280.2	278.7	270.7	247.3	193.9
30°	332.0	331.0	318.0	318.5	303.1	307.1	294.6	293.6	284.1	253.2	197.4
32.5°	339.0	340.0	334.5	332.0	311.1	327.0	315.6	311.6	309.1	269.2	214.9
35°	364.4	372.4	380.9	383.8	364.9	394.8	371.4	368.4	374.4	327.5	268.2
37.5°	560.3	556.3	524.9	480.6	470.6	536.4	532.9	535.4	531.4	466.1	354.9
40°	560.8	563.3	543.4	516.5	485.0	552.3	603.7	558.3	624.6	508.0	389.3
42.5°	589.2	581.3	628.6	639.1	604.2	704.4	855.9	684.9	828.0	619.1	529.9
45°	697.4	697.4	705.9	710.9	698.4	950.1	1243.3	955.6	1106.7	774.7	636.1
47.5°	809.1	799.6	848.0	929.2	977.6	1222.8	1641.1	1262.7	1501.0	1041.4	882.9
50°	1128.1	1141.6	1234.3	1329.0	1401.3	1820.5	2642.1	2163.5	2451.6	1601.2	1348.0
52.5°	1375.9	1454.6	1525.9	1791.6	1824.0	2487.5	3473.1	2902.8	3141.1	2249.8	1669.0
55°	1631.6	1787.6	1830.0	2299.1	2336.0	3196.4	4134.6	3677.0	3744.3	2966.1	1981.6
57.5°	2100.2	2318.0	2332.5	2833.0	2831.5	4118.1	5162.0	4788.1	4737.3	3777.2	2460.6
60°	2503.5	2751.7	2663.0	3356.4	3200.9	4797.6	5718.8	5342.0	5230.8	4427.7	2797.6
62.5°	2748.3	2990.5	2881.4	3701.4	3436.7	5122.6	5920.2	5700.4	5511.0	4821.5	3072.3
65°	2930.7	3180.5	3016.9	3897.3	3432.2	5138.6	6026.9	5884.8	5663.0	4924.2	3132.6
67.5°	2906.8	3150.5	2954.6	3819.5	3192.4	4679.5	5713.4	5536.4	5262.2	4527.9	2929.7
70°	2520.4	2667.5	2452.1	3253.2	2552.3	3619.6	4450.6	4348.5	4084.7	3466.1	2266.2
72.5°	2121.6	2158.0	1956.1	2546.4	1990.0	2637.1	3381.9	3272.7	3099.7	2572.3	1712.9
75°	1638.6	1638.6	1522.9	1909.3	1478.6	1871.4	2559.8	2531.9	2425.2	1930.2	1300.6
77.5°	1106.7	1048.9	1031.4	1289.6	1021.4	1234.8	1782.2	1848.0	1820.0	1381.9	948.2
80°	645.1	659.0	634.6	796.1	672.0	807.6	1143.6	1230.3	1227.8	917.7	622.1
82.5°	503.0	513.0	487.5	573.3	513.0	635.6	801.6	796.1	815.1	665.0	468.1
85°	495.5	503.0	476.6	529.9	492.5	603.7	753.2	751.7	747.8	615.7	439.7
87.5°	450.6	460.6	437.7	480.6	446.7	551.3	684.4	692.4	681.0	577.3	422.7
90°	376.9	387.3	377.4	427.2	392.3	475.6	595.2	601.2	591.2	514.5	381.4
92.5°	339.0	346.0	334.0	377.4	340.5	417.7	525.9	529.4	514.0	452.6	330.0
95°	312.6	319.5	304.6	336.5	300.6	368.4	447.7	459.1	436.2	381.9	281.2
97.5°	259.7	255.2	249.3	276.7	248.8	290.1	342.5	350.9	336.5	296.1	223.8
100°	224.8	226.3	223.8	243.8	218.3	249.3	290.1	293.6	287.6	258.2	202.4
102.5°	217.8	218.3	222.8	236.3	206.9	229.3	264.2	266.2	264.7	236.8	186.9
105°	215.9	215.4	217.8	232.3	201.9	209.9	243.3	244.3	239.3	220.3	175.0
107.5°	203.9	205.4	204.9	217.8	198.4	199.4	220.8	220.3	219.3	201.9	165.5
110°	233.8	231.3	220.8	221.3	202.4	207.4	228.8	226.3	221.3	210.9	180.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	332.5	325.5	313.6	274.2	254.2	268.2	*282.7*	285.1	279.7	270.2	228.3
115°	368.9	367.9	354.4	328.5	262.7	267.7	*277.2*	281.2	287.6	269.2	233.8
117.5°	302.6	319.0	298.1	301.6	264.2	232.3	*230.8*	222.8	226.3	224.3	216.4
120°	381.9	384.8	342.5	334.5	308.6	319.0	*319.5*	320.5	310.1	259.7	228.8
122.5°	536.9	536.9	548.9	570.8	557.3	538.4	*527.4*	516.5	502.0	454.1	388.3
125°	681.0	680.0	673.5	684.4	671.0	678.5	*682.0*	684.9	669.5	611.2	521.4
127.5°	548.9	562.8	586.2	645.6	608.2	597.7	*587.7*	594.7	583.3	572.3	516.5
130°	425.2	426.7	465.1	503.0	500.0	466.6	*455.1*	435.2	439.7	438.2	404.8
132.5°	363.4	365.4	387.8	409.3	427.2	402.8	*380.4*	369.9	373.4	370.9	349.5
135°	317.5	317.5	309.6	307.1	322.0	344.5	*342.0*	328.5	322.0	314.6	282.7
137.5°	274.7	273.7	259.2	251.2	263.2	292.1	*294.1*	294.1	287.6	269.7	246.8
140°	226.3	224.8	217.3	218.8	221.8	241.3	*242.8*	247.3	246.3	231.8	203.9
142.5°	171.5	172.0	183.0	195.4	202.4	244.3	*237.8*	232.8	248.8	247.8	178.0
145°	228.8	223.8	223.8	218.3	234.8	276.2	*263.2*	267.2	288.1	268.7	192.4
147.5°	209.9	212.4	212.9	211.9	232.8	235.3	*225.8*	226.3	233.8	233.8	196.9
150°	162.5	158.5	159.5	161.5	183.4	182.0	*173.5*	173.0	179.0	177.5	161.0
152.5°	128.6	128.1	127.6	129.6	147.6	140.1	*136.6*	135.1	134.1	132.6	128.6
155°	121.1	120.6	119.6	122.1	132.6	129.1	*127.1*	127.1	124.6	122.1	119.6
157.5°	107.7	107.2	107.7	112.7	118.6	114.7	*114.2*	113.7	112.7	109.7	108.7
160°	100.7	100.2	101.2	105.2	107.7	104.2	*103.2*	103.7	103.2	101.7	103.7
162.5°	95.2	95.2	95.2	97.7	98.7	96.2	*95.7*	96.2	96.7	96.7	99.2
165°	92.2	92.2	92.7	94.2	94.2	93.2	*92.2*	92.2	94.7	95.7	97.7
167.5°	94.2	94.2	94.7	95.2	95.2	94.2	*94.2*	94.7	96.2	97.2	97.2
170°	97.2	97.2	97.2	97.7	97.2	95.7	*95.7*	95.7	96.2	96.2	96.7
172.5°	100.7	100.7	100.7	100.2	99.2	98.7	*97.7*	97.7	98.2	97.7	98.2
175°	105.7	105.2	105.2	104.7	104.2	103.7	*103.2*	102.7	102.7	101.2	101.2
177.5°	108.2	107.7	108.2	108.2	107.7	106.7	*105.7*	105.7	105.2	104.2	103.7
180°	104.2	104.2	104.2	104.2	104.2	104.2	*104.2*	104.2	104.2	104.2	104.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	41.9	40.4	36.4	32.9	30.4	29.4	29.4	27.9	25.9	24.4	23.9
5°	55.3	54.3	52.8	50.8	46.4	40.4	35.4	33.4	32.4	31.9	31.4
7.5°	78.3	79.3	81.3	80.8	72.3	56.3	46.9	46.4	51.8	57.8	59.8
10°	101.2	100.2	106.7	112.2	91.2	63.8	48.4	46.9	54.3	64.8	66.3
12.5°	121.1	116.2	112.7	106.7	87.2	63.8	51.8	48.9	52.3	60.3	60.3
15°	136.1	129.6	115.2	101.2	83.7	65.8	53.8	51.8	51.8	49.4	49.9
17.5°	147.6	135.6	114.7	96.7	77.8	62.8	53.3	47.9	44.9	40.9	39.9
20°	161.0	152.5	124.6	99.7	76.8	60.8	51.8	45.4	41.9	40.4	39.9
22.5°	175.5	158.0	131.1	100.7	76.8	61.8	51.3	44.4	41.4	40.4	40.4
25°	177.0	162.0	134.6	104.7	79.3	63.8	52.3	44.9	41.9	40.9	40.4
27.5°	175.0	164.5	140.6	109.2	81.8	65.8	54.3	45.9	41.9	40.4	39.9
30°	182.5	174.0	147.6	112.2	84.2	68.3	56.3	47.9	42.9	39.9	39.4
32.5°	201.4	189.4	157.0	114.2	85.2	68.8	58.3	49.9	43.9	40.4	39.9
35°	251.2	240.3	193.4	121.1	85.2	69.8	59.8	51.3	44.9	40.9	40.4
37.5°	323.5	303.1	237.8	144.6	86.2	71.8	61.3	53.3	46.4	41.9	40.9
40°	343.0	289.6	201.9	129.6	88.2	73.8	63.8	55.3	48.4	43.4	42.9
42.5°	445.2	370.4	249.3	137.1	94.2	75.3	65.3	57.3	49.9	44.9	43.9
45°	476.6	370.9	253.2	158.5	110.7	81.8	67.8	58.8	50.8	45.9	45.4
47.5°	624.6	460.1	258.2	170.0	124.1	94.2	73.8	60.8	51.8	46.9	46.4
50°	915.8	649.1	320.5	212.4	153.5	115.2	86.7	64.8	52.8	48.4	47.4
52.5°	1142.6	778.7	347.5	259.7	203.9	152.0	109.2	75.3	55.8	49.4	48.4
55°	1392.8	956.6	394.8	313.1	247.3	190.4	138.6	90.7	61.8	50.8	49.9
57.5°	1737.3	1142.1	463.6	369.4	300.1	222.3	158.0	106.2	69.8	54.3	52.3
60°	1946.7	1220.8	474.6	399.8	331.5	247.8	166.5	112.7	78.3	59.3	56.3
62.5°	2147.1	1275.2	477.6	411.8	339.0	252.7	167.5	109.7	81.3	66.3	62.3
65°	*2187.9*	*1221.3*	*478.6*	*414.3*	*330.0*	*239.8*	*162.0*	*106.7*	*77.8*	*72.3*	*72.8*
67.5°	2049.9	1084.7	443.7	396.3	306.1	213.9	145.6	102.2	76.8	71.3	72.8
70°	1611.7	850.0	405.3	367.4	259.7	182.0	129.6	96.2	76.8	68.8	67.3
72.5°	1251.2	726.3	415.3	349.0	222.3	162.5	117.1	89.7	74.3	68.3	67.3
75°	971.1	606.2	409.3	307.1	181.5	139.6	105.2	82.3	70.8	67.3	66.8
77.5°	709.9	478.1	338.5	235.3	150.5	118.6	92.7	77.3	68.8	65.8	65.3
80°	456.6	334.5	235.8	187.9	132.1	108.2	86.7	73.8	67.8	65.8	65.3
82.5°	384.8	303.6	212.4	178.0	127.6	110.2	90.7	77.3	71.3	69.3	68.8
85°	370.4	312.6	218.3	185.4	122.1	105.2	88.7	77.3	71.8	69.3	68.8
87.5°	351.9	282.7	215.4	170.5	117.6	101.2	87.2	79.3	73.8	72.3	71.8
90°	318.5	249.3	197.4	158.5	124.1	107.7	96.2	87.7	82.3	78.8	77.8
92.5°	268.7	200.4	169.5	156.5	136.1	122.1	110.7	103.2	97.2	93.7	92.2
95°	226.3	175.0	147.6	138.6	120.1	109.7	98.7	93.2	88.7	85.7	85.7
97.5°	184.4	150.0	137.1	130.1	115.2	103.7	94.7	89.2	87.7	86.7	86.2
100°	173.5	147.1	138.1	132.1	120.1	109.7	102.7	97.7	97.2	96.7	96.7
102.5°	161.0	139.1	129.1	123.1	111.2	102.2	97.2	93.2	91.7	90.2	88.7
105°	152.0	131.6	124.1	116.2	106.7	97.7	92.7	86.7	85.7	85.2	85.2
107.5°	147.6	130.6	126.6	114.2	105.2	101.2	95.2	87.7	86.2	84.2	84.2
110°	163.0	145.1	133.6	118.1	108.7	105.2	103.7	97.2	92.2	86.2	85.7

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

Scaled Data Report

REPORT NUMBER: P1046546
CATALOG NUMBER: FFX-CLB-60-722-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	201.9	177.5	164.0	141.1	121.6	113.2	106.7	99.7	96.7	92.7	91.2
115°	217.3	192.4	175.5	152.5	130.1	115.2	105.7	104.7	101.7	99.2	101.7
117.5°	222.8	175.0	144.6	139.1	122.1	110.2	105.7	104.2	105.2	105.2	100.7
120°	240.3	188.9	177.5	170.5	138.6	119.1	109.2	114.2	113.2	107.2	107.2
122.5°	358.4	320.0	282.2	235.3	195.4	172.5	138.6	116.2	111.7	107.7	105.2
125°	472.1	437.7	378.4	316.1	247.3	183.0	137.6	121.6	113.2	108.2	109.2
127.5°	481.1	444.7	376.9	300.6	220.8	171.0	138.6	124.6	115.2	109.7	108.7
130°	375.9	350.0	299.1	243.3	187.4	153.0	128.1	114.2	105.7	100.7	99.7
132.5°	332.5	310.6	257.7	208.9	171.0	142.1	120.6	105.2	99.2	95.7	95.2
135°	265.7	247.3	211.9	185.4	159.0	135.1	113.7	99.2	93.7	93.2	92.2
137.5°	232.8	217.8	190.4	168.5	146.6	123.6	105.7	93.7	91.2	91.7	90.2
140°	189.9	183.4	168.0	149.1	125.6	101.7	89.2	85.2	89.2	91.2	91.2
142.5°	163.0	154.5	137.1	115.2	100.2	89.2	87.7	86.2	88.2	89.2	89.2
145°	150.0	140.1	125.6	117.6	110.7	101.2	93.2	86.2	84.2	84.7	84.7
147.5°	169.5	158.0	148.6	133.6	116.7	100.7	88.7	80.8	80.8	82.8	83.3
150°	140.6	130.6	124.1	115.7	102.7	89.7	81.3	77.3	78.8	82.8	83.3
152.5°	117.6	105.7	101.7	96.7	89.7	82.8	78.8	76.8	79.3	82.3	82.3
155°	114.7	104.2	99.2	94.2	87.7	81.8	78.3	77.3	79.8	81.8	82.3
157.5°	107.7	101.7	95.2	91.2	86.2	81.8	79.3	78.3	80.3	81.8	82.3
160°	103.7	100.2	92.7	89.2	84.7	81.8	81.3	81.3	82.3	82.8	82.8
162.5°	99.2	97.2	92.7	89.7	86.7	85.2	86.2	86.7	86.7	86.2	86.2
165°	97.7	96.7	92.7	90.2	88.7	89.2	91.2	91.7	90.2	89.2	89.2
167.5°	97.2	97.2	94.2	92.2	91.7	92.7	94.7	94.7	93.2	91.2	90.7
170°	97.2	97.7	96.7	96.7	95.7	96.2	96.7	96.7	95.7	94.7	94.2
172.5°	98.7	98.7	98.7	98.7	98.2	98.7	99.2	99.2	99.2	98.7	98.7
175°	101.2	101.2	101.2	100.7	100.2	100.2	100.7	101.2	101.7	101.7	101.7
177.5°	103.7	103.2	102.7	103.2	102.7	102.7	103.7	104.2	104.7	104.7	104.7
180°	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2

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

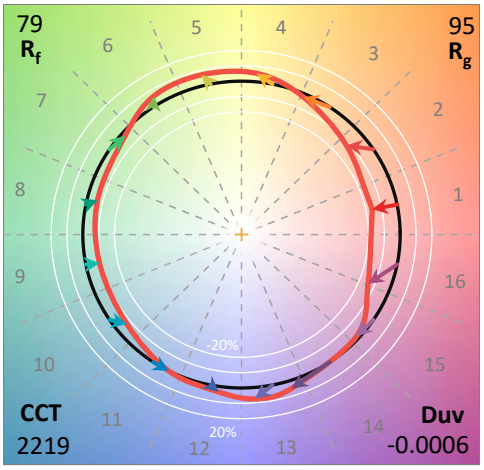
Test Information

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

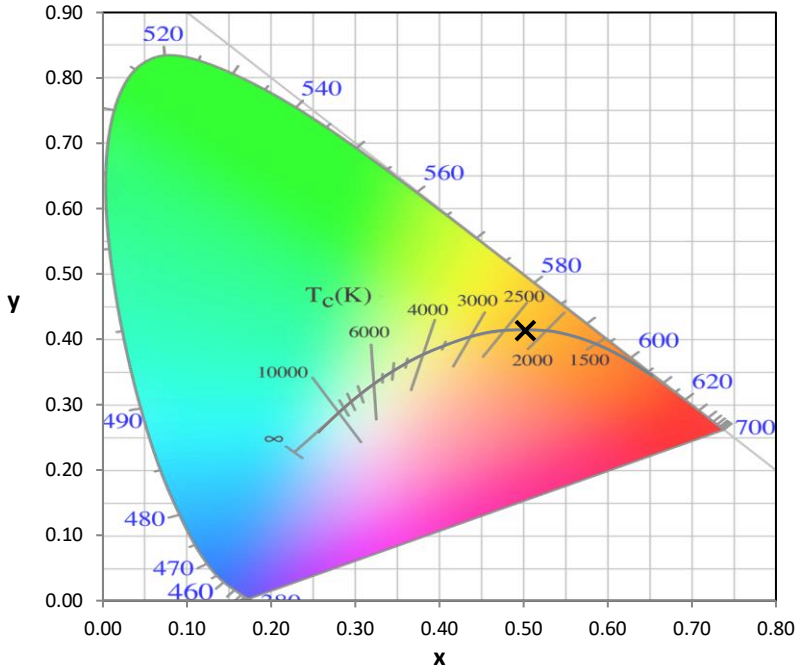
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

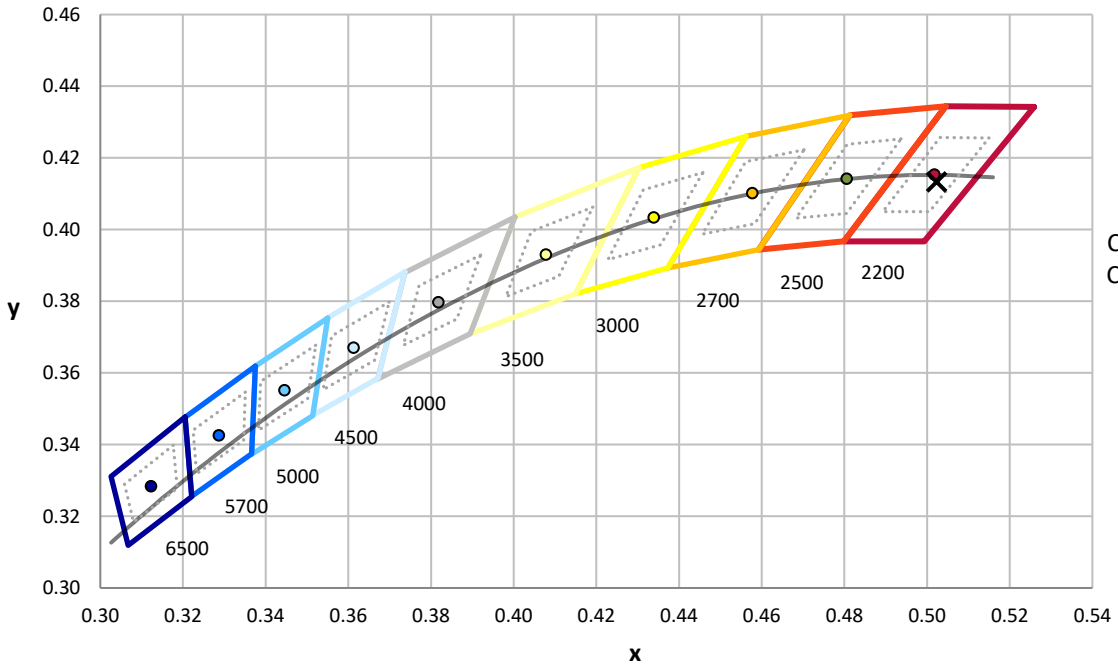
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

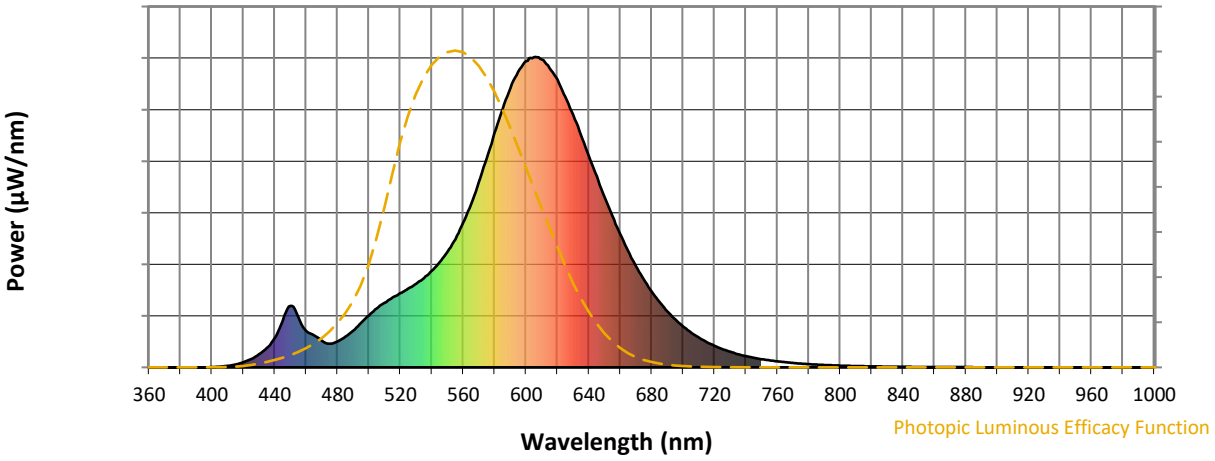


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

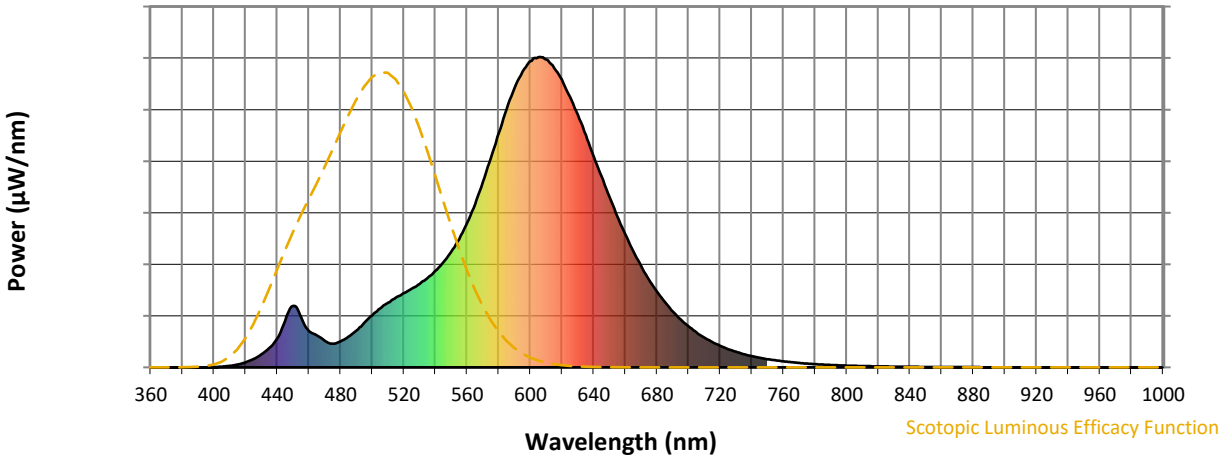


Photopic Lumens: NR

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

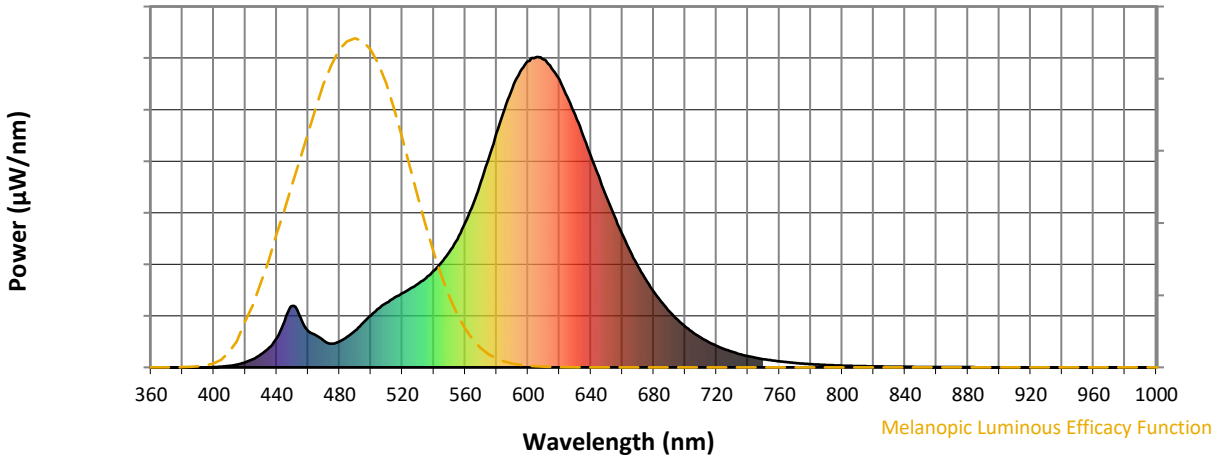


Scotopic Lumens: NR **S/P: 0.94**

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			

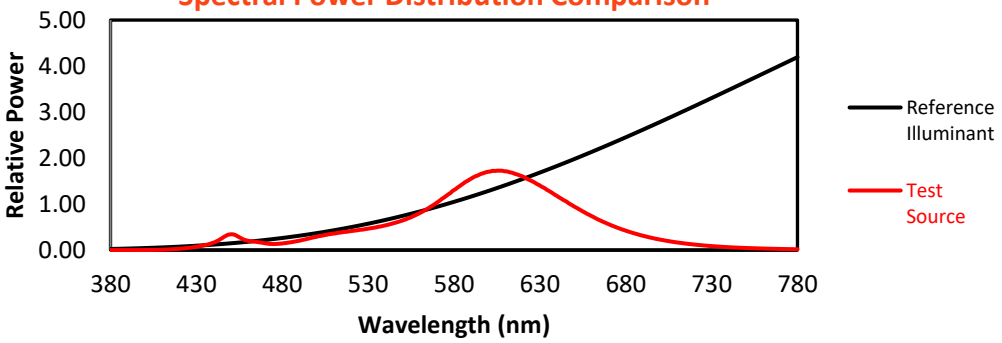
REPORT NUMBER: SP1-2501-332-2

TM-30-18

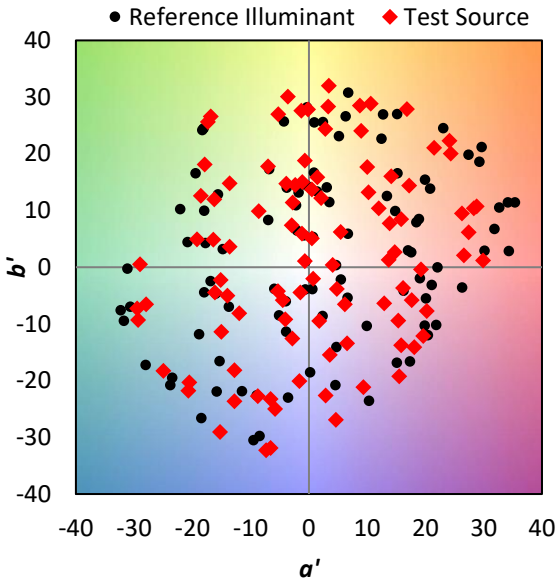
Summary

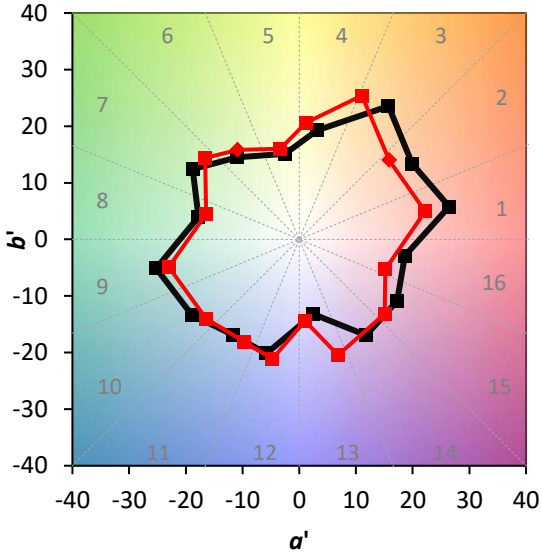
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

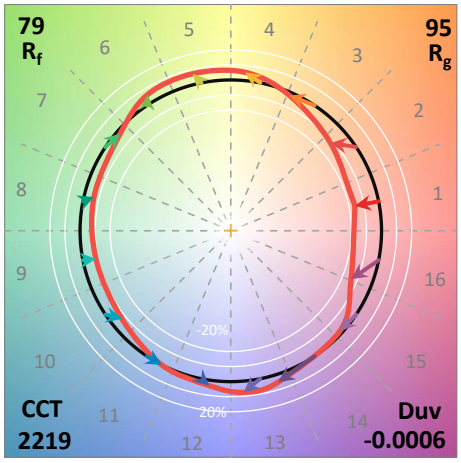
Spectral Power Distribution Comparison

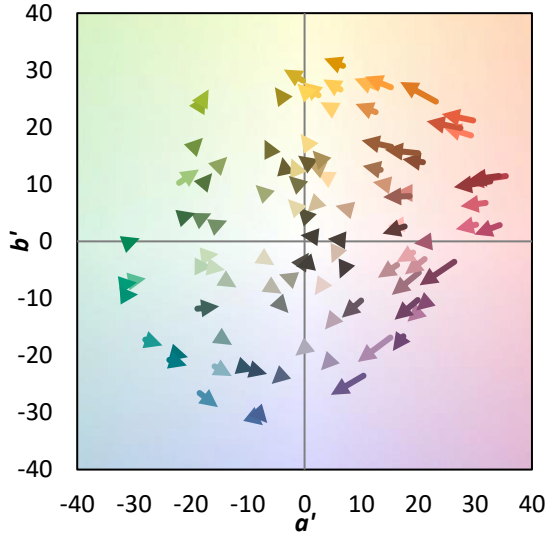


Color Vector Graphics







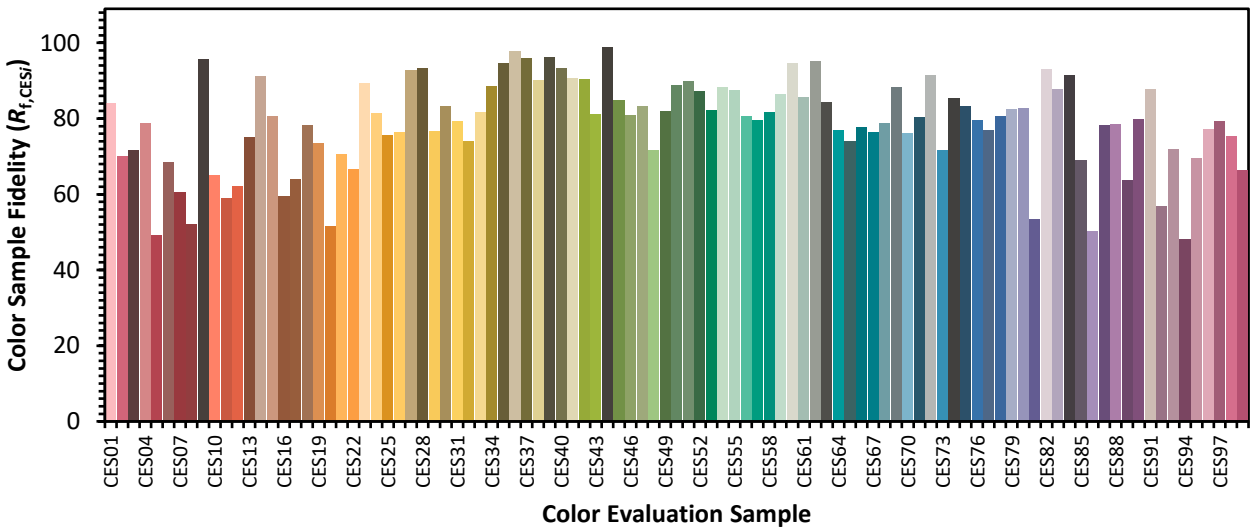


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

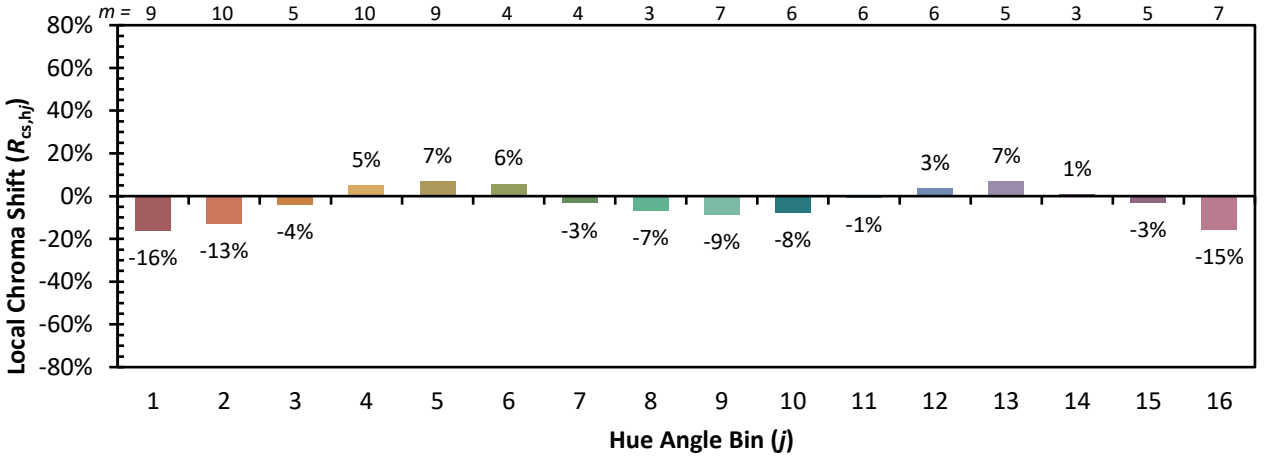
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82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

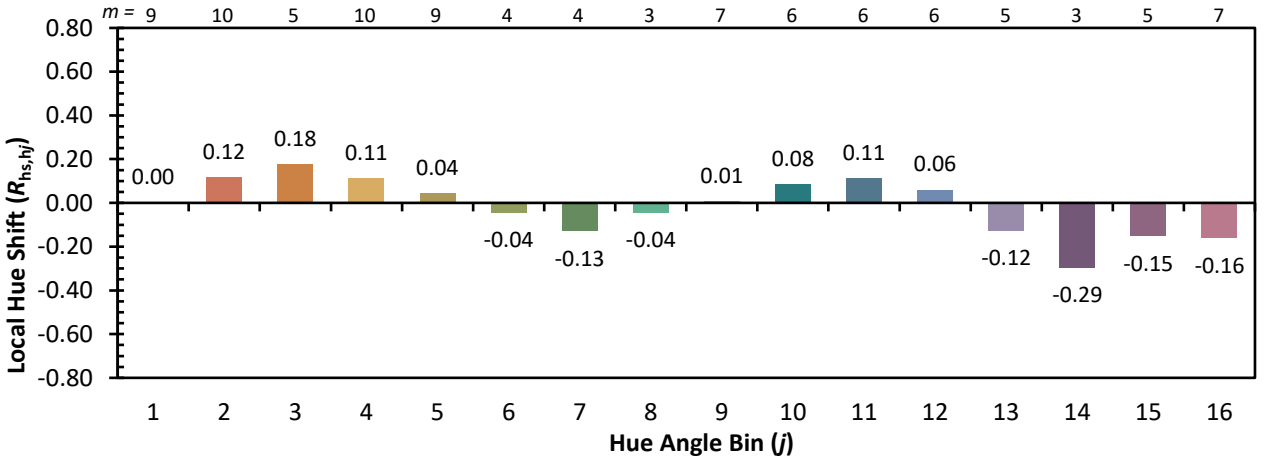


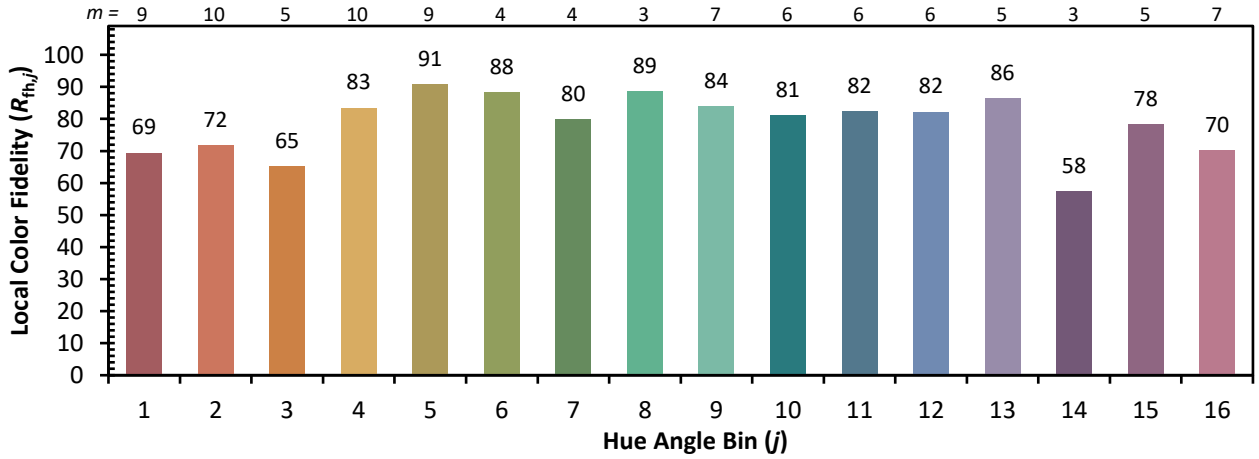
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Color Rendition by Hue-Angle Bin



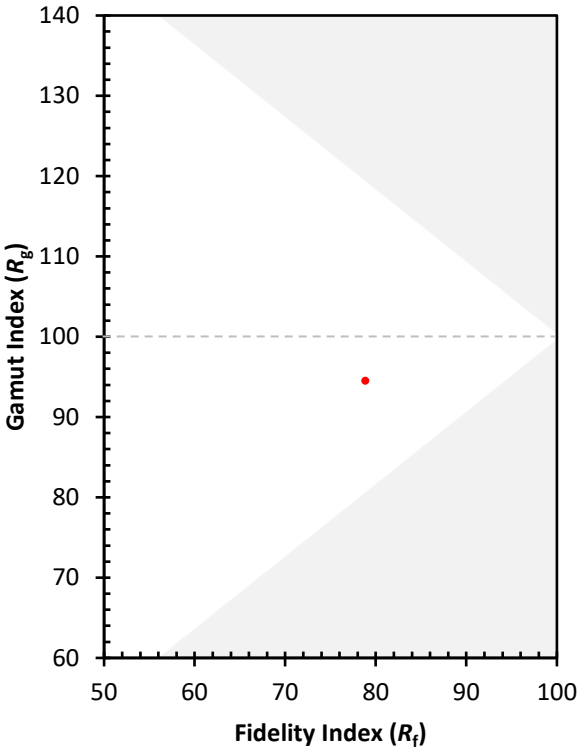


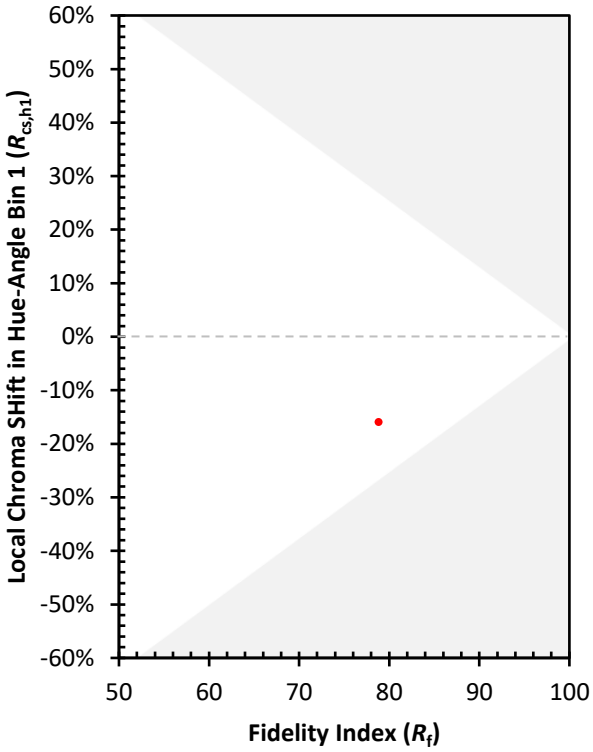


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Measure Comparisons





(END OF REPORT)