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: P981409

Luminaire Tested: **FFX-CLB-70-722-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981409
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9164.1 lumens
Efficiency:	N/A
Efficacy:	128.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - U5 - 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

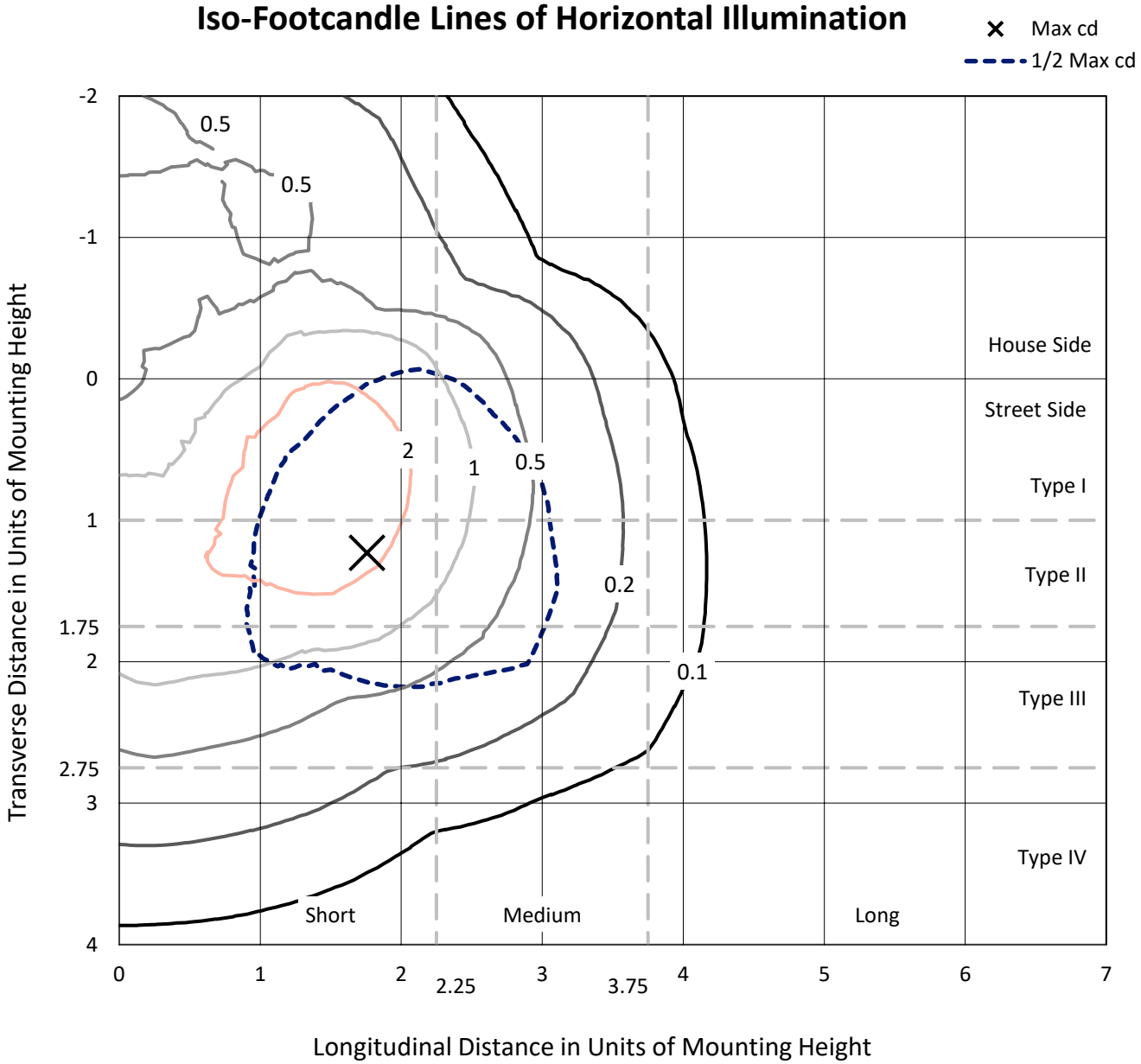


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Iso-Footcandle Lines of Horizontal Illumination



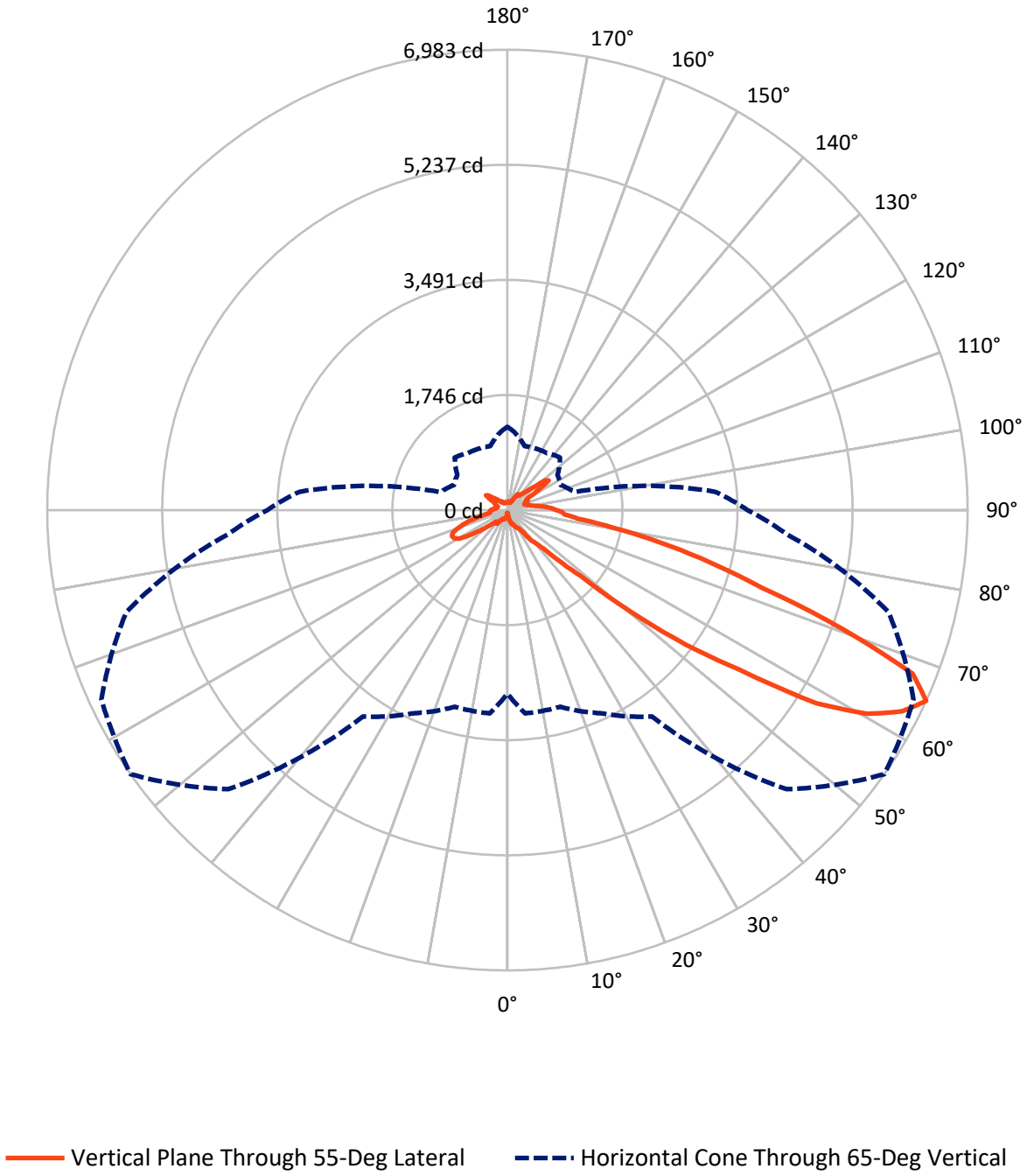
Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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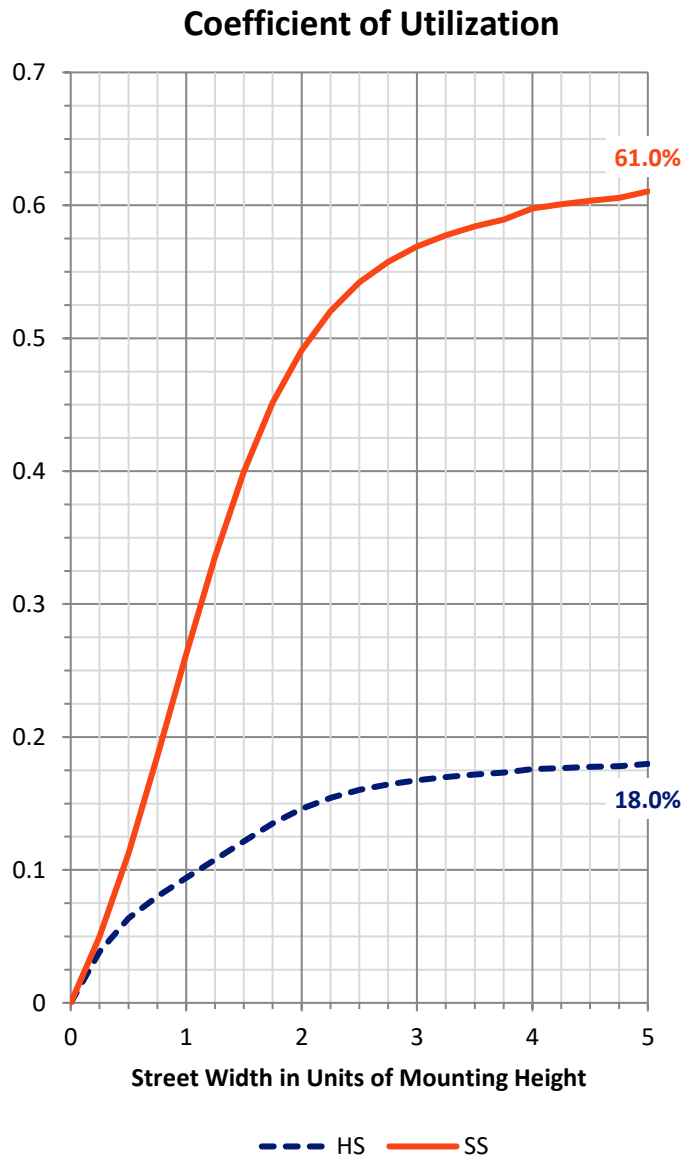
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1717.7	615.4	2333.1
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	5775.3	1055.7	6831.0
	% Fixture	63.0	11.5	74.5
Total	Lumens	7493.0	1671.1	9164.1
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.1
10°-20°	46.6	0.5
20°-30°	95.7	1.0
30°-40°	200.4	2.2
40°-50°	529.1	5.8
50°-60°	1760.5	19.2
60°-70°	2839.8	31.0
70°-80°	1489.7	16.3
80°-90°	522.7	5.7
90°-100°	337.5	3.7
100°-110°	218.8	2.4
110°-120°	240.0	2.6
120°-130°	403.7	4.4
130°-140°	236.5	2.6
140°-150°	126.6	1.4
150°-160°	62.9	0.7
160°-170°	33.1	0.4
170°-180°	12.0	0.1
0°-90°	7493.0	81.8
0°-180°	9164.1	100.0



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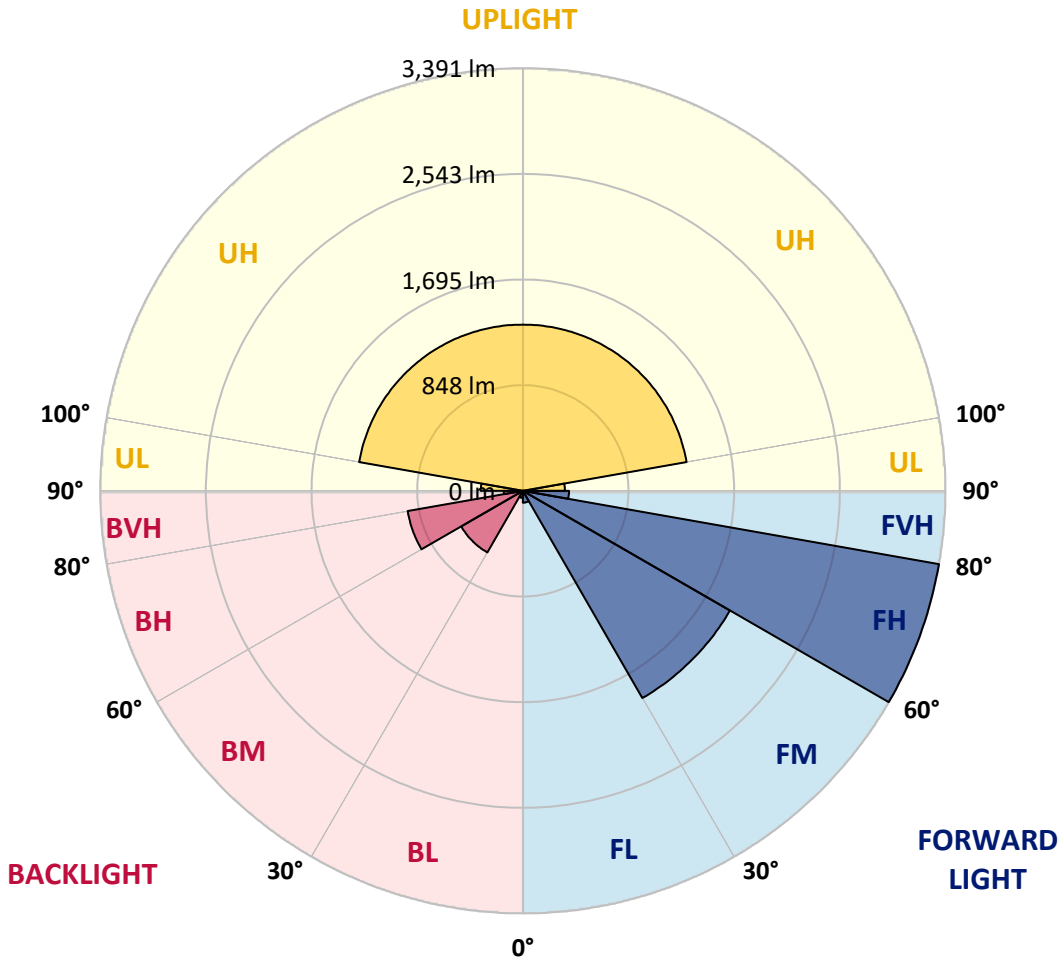
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	95.1	1.0			
FM	(30°-60°)	1919.2	20.9			
FH	(60°-80°)	3390.9	37.0			G2/5000
FVH	(80°-90°)	370.1	4.0			G3/500
BL	(0°-30°)	55.7	0.6	B0/110		
BM	(30°-60°)	570.8	6.2	B1/1000		
BH	(60°-80°)	938.6	10.2	B2/1000		G2/1000
BVH	(80°-90°)	152.6	1.7			G2/225
UL	(90°-100°)	337.5	3.7		U3/500	
UH	(100°-180°)	1333.6	14.6		U5	

BUG Rating: B2-U5-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	51.9	51.9	51.9	51.9	51.9	51.9	*51.9*	51.9	51.9	51.9	51.9
2.5°	51.9	53.1	56.1	57.3	57.9	56.7	*54.3*	56.7	56.7	56.7	56.1
5°	75.4	75.4	75.4	77.2	77.8	79.1	*77.8*	74.8	72.4	70.0	69.4
7.5°	105.6	106.8	107.4	107.4	107.4	109.8	*112.2*	106.8	102.0	97.2	95.9
10°	151.5	148.4	145.4	146.6	144.2	139.4	*141.8*	137.6	126.7	123.1	123.1
12.5°	193.7	193.1	194.3	187.7	184.1	173.8	*175.0*	172.6	164.7	152.1	147.8
15°	217.2	219.1	218.4	220.9	215.4	200.9	*197.3*	198.5	191.3	179.2	173.2
17.5°	229.3	229.3	229.9	232.9	232.9	219.1	*213.0*	210.0	204.0	193.7	185.9
20°	235.3	235.3	234.7	239.0	247.4	239.6	*231.1*	226.3	220.9	204.6	192.5
22.5°	252.2	251.0	249.2	250.4	263.1	260.7	*254.1*	246.8	239.0	214.2	199.1
25°	269.7	270.3	264.9	266.7	279.4	283.0	*277.6*	270.3	261.3	223.9	208.8
27.5°	289.7	289.1	281.8	284.2	290.9	304.1	*297.5*	293.9	278.8	231.7	217.2
30°	307.8	304.7	297.5	303.5	303.5	324.7	*318.6*	320.4	301.7	246.2	230.5
32.5°	321.0	320.4	316.2	324.1	319.8	347.0	*345.2*	360.3	332.5	274.6	260.1
35°	351.2	351.8	369.3	384.4	377.2	417.0	*425.4*	444.7	410.9	345.2	329.5
37.5°	568.5	561.2	537.1	509.3	512.9	587.2	*576.9*	587.2	535.3	440.5	415.8
40°	598.6	600.4	572.7	551.6	548.5	643.3	*659.0*	742.2	633.6	528.0	479.1
42.5°	582.9	589.0	665.0	692.2	668.0	788.7	*793.5*	954.1	739.2	651.1	586.6
45°	739.2	740.4	756.1	773.6	776.6	1077.2	*1094.1*	1271.5	940.2	820.1	710.9
47.5°	841.2	850.9	872.6	992.1	1055.4	1377.1	*1489.9*	1771.7	1252.2	1118.2	902.8
50°	1189.4	1216.0	1323.4	1426.0	1524.9	2042.1	*2421.6*	2757.8	1881.0	1639.0	1311.9
52.5°	1449.5	1544.8	1664.9	1912.3	2016.7	2791.0	*3387.2*	3595.4	2634.7	2221.3	1787.4
55°	1675.2	1850.2	1979.9	2384.8	2583.4	3638.8	*4274.8*	4305.0	3535.6	2711.3	2291.9
57.5°	2139.8	2395.1	2479.6	2826.0	3102.3	4648.4	*5531.8*	5383.4	4455.3	3269.5	2830.2
60°	2577.3	2871.2	2839.8	3159.1	3524.8	5516.7	*6275.9*	6200.5	5317.0	3798.1	3300.9
62.5°	2719.8	3017.9	2991.3	3326.8	3818.6	5921.7	*6722.4*	6597.5	5825.7	4128.8	3537.4
65°	*2781.9*	*3096.3*	*3089.1*	*3402.9*	*3822.3*	*5986.2*	*6982.5*	*6796.7*	*5985.6*	*4262.2*	*3641.2*
67.5°	2728.8	3028.1	3025.1	3314.2	3543.5	5518.0	*6630.7*	6356.7	5591.6	3948.4	3417.3
70°	2354.7	2562.9	2550.2	2727.6	2847.7	4385.9	*5381.0*	5174.0	4512.6	3244.8	2830.8
72.5°	1920.2	1981.7	2008.3	2109.7	2141.6	3209.8	*4035.3*	3870.5	3364.8	2430.1	2146.5
75°	1533.4	1536.4	1564.1	1599.7	1588.9	2361.3	*3178.4*	3076.4	2481.4	1812.8	1628.1
77.5°	1015.0	1007.2	1129.1	1143.5	1074.1	1504.4	*2373.4*	2301.6	1776.0	1321.0	1190.6
80°	582.3	584.7	668.0	720.5	692.8	955.9	*1626.3*	1610.6	1219.6	924.5	817.7
82.5°	434.5	455.0	499.7	527.4	516.6	718.7	*1082.0*	1111.6	866.6	665.0	607.7
85°	484.0	495.4	500.3	502.1	488.8	672.2	*873.8*	872.0	728.4	558.2	538.9
87.5°	471.3	481.0	485.2	487.6	474.3	642.7	*825.5*	813.5	698.8	536.5	508.1
90°	396.5	418.8	418.2	439.3	424.2	564.8	*724.1*	716.3	634.2	494.2	461.0
92.5°	332.5	345.2	353.6	382.6	369.3	497.2	*651.1*	633.0	567.8	449.6	414.0
95°	310.8	322.2	328.9	345.2	328.9	429.7	*548.5*	532.2	471.3	374.7	340.3
97.5°	261.9	265.5	271.6	282.4	271.6	348.2	*444.1*	428.4	378.4	305.9	281.8
100°	222.1	225.7	233.5	241.4	235.9	298.1	*371.7*	363.3	325.3	266.1	249.8
102.5°	210.0	212.4	222.7	227.5	220.9	274.0	*328.3*	328.3	294.5	245.6	232.3
105°	200.3	203.4	211.2	213.0	208.2	252.2	*302.9*	299.9	273.4	229.9	217.2
107.5°	190.7	194.3	200.9	197.9	195.5	232.3	*272.2*	277.0	254.1	218.4	210.0
110°	200.9	202.2	207.6	202.8	207.0	231.1	*273.4*	274.6	267.9	238.4	229.3

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CATALOG NUMBER: FFX-CLB-70-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	273.4	266.7	278.2	260.1	274.0	290.9	*317.4*	327.1	319.2	285.4	277.6
115°	299.3	304.1	316.2	298.1	307.2	327.7	*340.3*	342.2	333.1	311.4	308.4
117.5°	233.5	257.7	245.0	255.9	259.5	287.8	*316.8*	325.3	316.8	286.6	305.3
120°	298.7	318.0	274.6	261.3	279.4	328.9	*355.4*	362.7	339.7	340.3	351.8
122.5°	495.4	506.3	533.5	547.3	526.2	556.4	*565.4*	572.1	537.1	496.0	475.5
125°	751.9	744.1	740.4	736.8	731.4	763.4	*769.4*	752.5	717.5	660.2	628.2
127.5°	680.1	686.7	697.0	695.8	691.0	715.7	*730.8*	720.5	710.9	656.0	637.2
130°	489.4	492.4	510.5	543.1	539.5	559.4	*561.2*	571.5	587.8	563.6	544.3
132.5°	405.5	408.5	435.7	450.2	451.4	452.0	*443.5*	467.1	484.0	459.8	443.5
135°	353.6	353.6	359.7	354.2	356.0	371.7	*379.0*	400.1	404.3	392.8	376.6
137.5°	312.6	313.8	301.1	290.9	292.7	321.0	*337.3*	353.6	345.2	321.6	310.2
140°	272.2	265.5	248.0	245.0	258.3	285.4	*295.1*	306.6	309.0	278.8	263.7
142.5°	200.3	197.9	205.8	222.1	229.3	274.6	*267.3*	289.1	290.3	239.6	214.8
145°	223.9	223.3	222.7	225.7	242.6	308.4	*290.9*	318.6	331.9	254.7	208.2
147.5°	252.8	252.2	246.8	240.2	265.5	281.8	*266.1*	290.3	304.7	252.8	201.6
150°	195.5	196.7	193.7	191.9	219.7	216.6	*213.0*	219.7	225.7	209.4	183.4
152.5°	152.1	149.7	147.8	148.4	171.4	167.8	*167.8*	172.6	173.2	167.2	153.9
155°	137.0	136.4	135.2	137.6	151.5	147.8	*144.8*	143.6	140.6	138.8	137.0
157.5°	128.5	127.3	127.3	130.9	140.6	134.6	*133.4*	132.2	130.3	130.3	130.9
160°	120.1	119.5	119.5	124.9	127.9	122.5	*121.3*	120.7	120.1	121.3	122.5
162.5°	115.3	115.3	115.3	118.9	118.9	115.3	*114.1*	113.4	114.1	118.3	118.9
165°	113.4	112.8	113.4	115.3	114.7	112.2	*111.6*	111.6	113.4	117.1	117.7
167.5°	116.5	116.5	116.5	117.1	116.5	114.1	*113.4*	113.4	115.3	118.3	118.3
170°	121.3	120.7	120.7	120.7	120.1	117.7	*116.5*	117.1	117.7	119.5	119.5
172.5°	125.5	125.5	124.9	124.3	123.1	121.9	*120.7*	120.7	120.7	121.3	121.3
175°	130.3	130.3	130.3	129.7	129.7	127.9	*127.3*	126.7	126.1	125.5	124.9
177.5°	135.8	135.2	135.2	135.2	135.2	133.4	*132.2*	131.6	130.3	129.7	129.7
180°	133.4	133.4	133.4	133.4	133.4	133.4	*133.4*	133.4	133.4	133.4	133.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	56.1	54.3	51.3	45.9	44.1	42.2	40.4	36.8	35.0	33.8
5°	68.8	66.4	65.8	62.8	58.5	54.9	54.3	53.1	52.5	50.7
7.5°	98.4	99.6	102.6	97.2	85.1	78.4	80.3	86.9	84.5	83.9
10°	123.7	131.6	137.6	123.7	102.0	88.1	88.7	102.0	103.2	105.6
12.5°	144.8	151.5	150.3	132.8	112.2	99.0	94.7	102.0	108.6	109.2
15°	167.8	156.3	152.1	137.6	123.1	112.8	111.0	112.8	112.8	111.6
17.5°	177.4	157.5	145.4	133.4	123.1	115.9	113.4	110.4	106.2	106.2
20°	179.8	162.3	148.4	135.8	125.5	117.7	111.0	107.4	106.2	106.2
22.5°	187.1	171.4	156.9	141.8	130.9	120.7	112.8	109.2	109.2	109.8
25°	197.3	182.8	164.7	149.1	137.6	126.7	116.5	111.0	110.4	111.0
27.5°	210.0	194.9	175.0	158.1	144.8	132.8	120.1	113.4	111.0	111.0
30°	224.5	207.0	184.7	165.9	151.5	140.6	124.9	115.9	112.8	111.6
32.5°	250.4	230.5	196.7	176.2	159.9	147.8	132.2	120.7	114.7	113.4
35°	314.4	283.6	239.6	202.2	177.4	156.3	137.6	123.7	115.9	114.7
37.5°	383.8	337.3	295.7	254.1	217.8	183.4	147.8	128.5	118.9	117.1
40°	427.2	366.3	329.5	267.3	262.5	234.1	181.6	141.8	124.9	122.5
42.5°	516.6	425.4	366.9	235.9	256.5	262.5	229.3	178.0	141.2	137.0
45°	622.2	500.3	411.6	252.2	264.3	257.1	234.7	206.4	176.2	167.8
47.5°	806.2	570.9	427.2	292.7	302.3	282.4	249.2	219.7	197.3	194.3
50°	1163.5	778.5	481.0	359.7	388.6	333.1	290.3	267.3	237.2	233.5
52.5°	1623.3	937.2	540.1	465.3	531.0	462.2	392.8	346.4	339.7	342.2
55°	2121.7	986.0	617.9	575.1	690.3	625.8	546.1	501.5	545.5	559.4
57.5°	2616.0	1059.7	730.8	717.5	864.1	765.8	703.0	722.3	905.8	949.8
60°	3005.2	1122.4	826.1	854.5	1036.1	929.3	902.8	931.1	1246.1	1363.2
62.5°	3157.9	1094.1	875.6	912.4	1117.0	1044.0	1034.9	1062.1	1327.6	1442.9
65°	*3169.3*	*1050.6*	*894.9*	*928.1*	*1129.7*	*1051.8*	*1027.1*	*1004.1*	*1188.8*	*1261.8*
67.5°	2932.8	963.7	871.4	905.8	1073.5	970.3	919.1	867.2	961.9	1002.3
70°	2364.3	854.5	797.8	817.7	902.8	807.4	737.4	701.8	735.6	732.6
72.5°	1791.0	752.5	716.9	697.0	737.4	660.2	582.9	548.5	578.7	570.9
75°	1368.0	671.6	638.5	572.1	611.3	506.9	421.8	398.3	412.8	407.3
77.5°	987.2	538.3	494.2	421.2	471.9	368.7	283.0	266.1	269.7	258.3
80°	710.9	401.3	358.4	306.6	347.0	263.7	210.0	206.4	208.2	196.1
82.5°	558.2	321.6	293.3	265.5	278.2	238.4	202.2	198.5	200.3	187.1
85°	520.2	315.0	285.4	267.3	271.6	234.7	196.1	194.9	197.9	183.4
87.5°	490.6	312.0	288.4	262.5	252.2	215.4	181.6	187.1	195.5	180.4
90°	432.7	290.9	270.3	246.8	235.9	202.2	181.6	189.5	188.9	178.0
92.5°	381.4	259.5	243.2	229.9	227.5	205.8	190.1	197.3	199.7	188.9
95°	312.6	219.1	211.2	207.0	210.6	189.5	176.2	179.8	177.4	171.4
97.5°	266.1	199.7	194.3	188.3	184.7	169.6	158.1	162.9	165.3	159.9
100°	240.8	190.1	185.9	179.2	178.6	168.4	162.3	172.0	179.2	176.2
102.5°	225.1	180.4	175.0	169.0	167.2	158.7	153.9	159.9	166.6	160.5
105°	213.6	171.4	162.9	157.5	154.5	148.4	142.4	144.8	152.1	149.1
107.5°	202.8	170.8	157.5	153.3	153.3	145.4	137.0	137.6	141.2	140.6
110°	219.7	189.5	165.3	159.3	157.5	155.1	149.1	143.0	138.2	138.2

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

Scaled Data Report

REPORT NUMBER: P981409
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	263.1	232.3	207.6	188.3	180.4	171.4	158.7	149.7	143.0	141.2
115°	282.4	249.2	225.7	204.6	186.5	169.0	158.1	151.5	147.8	151.5
117.5°	266.1	220.3	217.2	195.5	178.6	164.7	161.7	150.9	156.9	156.9
120°	299.3	255.9	249.2	217.8	194.3	176.8	175.0	173.2	166.6	163.5
122.5°	437.5	380.8	353.6	307.2	266.7	230.5	210.0	181.6	161.7	157.5
125°	594.4	519.6	454.4	392.8	331.9	267.3	213.0	170.8	150.3	147.2
127.5°	596.2	520.2	448.4	373.5	307.2	239.6	191.3	161.7	147.2	146.6
130°	524.4	458.0	379.0	304.7	251.0	206.4	171.4	147.2	137.0	134.0
132.5°	417.6	358.4	307.8	261.9	220.9	182.8	151.5	134.6	128.5	127.9
135°	351.2	299.9	264.3	230.5	198.5	164.7	135.8	127.3	124.3	123.1
137.5°	286.6	255.9	234.1	207.0	176.2	148.4	129.1	125.5	124.3	121.9
140°	248.6	228.1	204.6	174.4	150.9	127.9	117.7	120.7	123.7	123.1
142.5°	202.8	187.7	170.2	150.3	134.0	123.7	119.5	121.3	121.3	121.9
145°	192.5	172.6	162.9	150.9	140.0	132.2	121.9	118.3	117.7	117.7
147.5°	178.6	170.8	164.7	156.3	140.0	125.5	114.1	112.2	114.7	114.1
150°	167.2	161.7	154.5	141.2	124.9	115.3	109.2	109.8	114.1	114.7
152.5°	141.8	138.8	134.0	125.5	114.1	109.2	106.2	108.6	111.6	112.2
155°	126.1	124.3	123.1	117.7	110.4	107.4	106.2	108.0	111.0	111.6
157.5°	124.9	120.7	118.9	115.3	109.8	106.8	106.8	108.6	110.4	111.0
160°	121.3	115.9	115.3	111.6	110.4	108.6	109.8	110.4	112.2	111.6
162.5°	118.3	114.7	114.1	111.6	112.8	114.7	114.7	115.3	116.5	115.9
165°	117.1	114.1	113.4	113.4	117.1	120.1	120.7	120.1	120.1	120.1
167.5°	118.3	116.5	115.9	117.1	120.1	123.7	124.3	123.1	121.9	121.3
170°	120.1	119.5	120.1	120.7	122.5	124.9	124.9	123.7	123.7	123.7
172.5°	121.9	123.1	123.7	123.7	125.5	126.7	127.3	126.7	126.7	126.7
175°	125.5	126.1	126.1	126.7	128.5	129.7	130.9	130.9	130.9	130.9
177.5°	129.7	129.7	129.7	130.3	130.9	132.8	133.4	134.6	135.2	135.2
180°	133.4	133.4	133.4	133.4	133.4	133.4	133.4	133.4	133.4	133.4

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

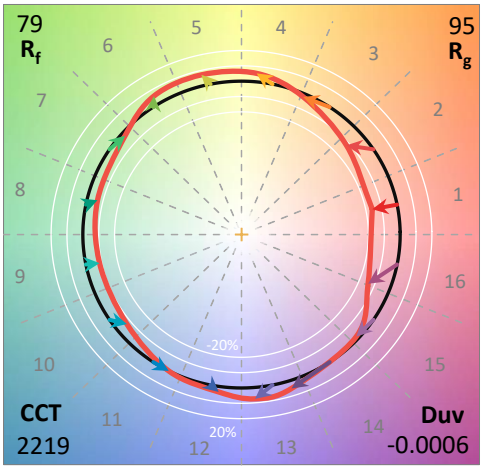
Test Information

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

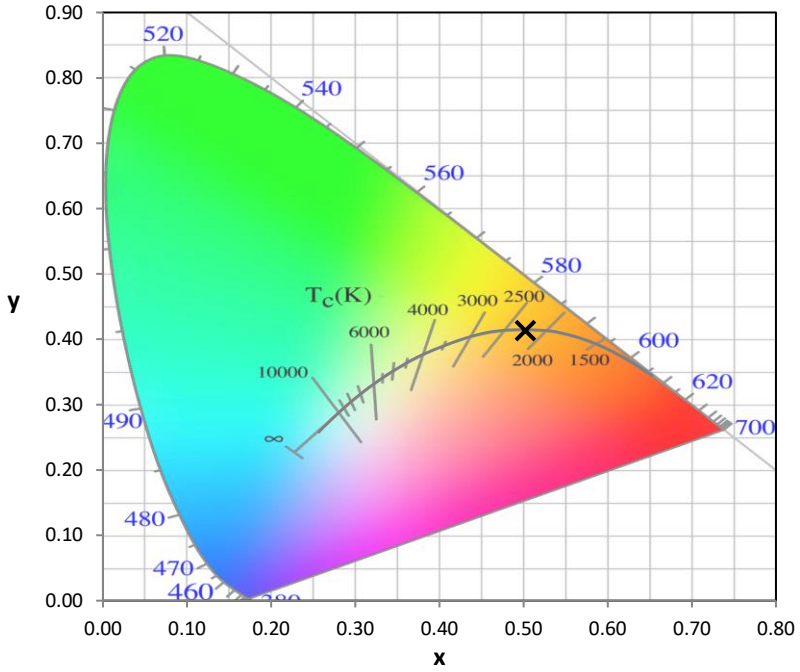
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

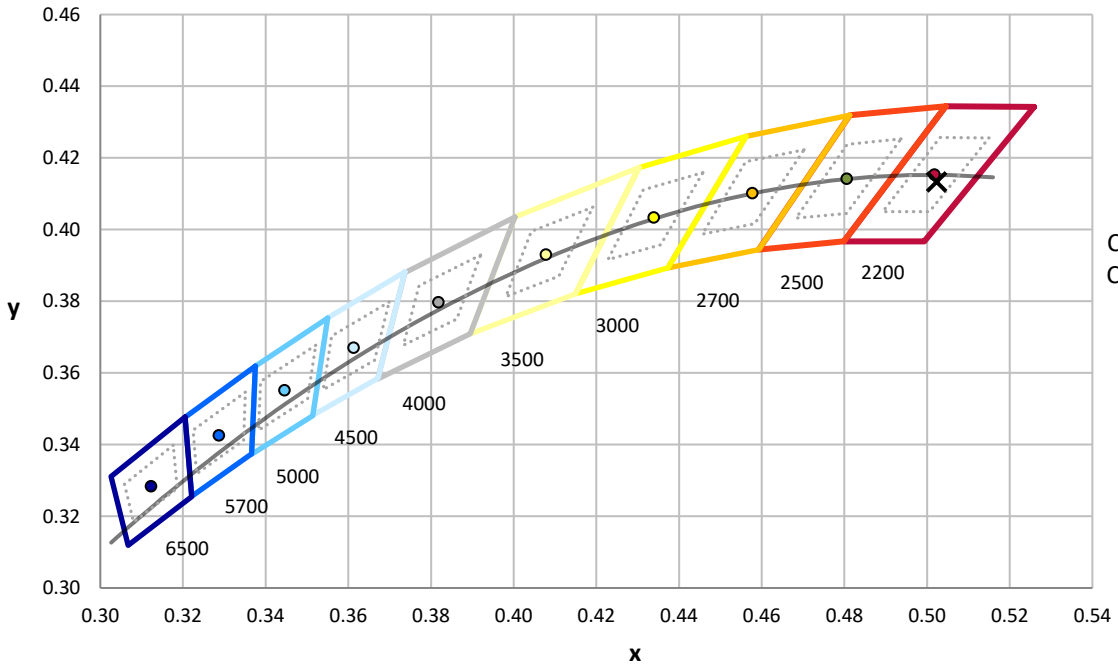
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

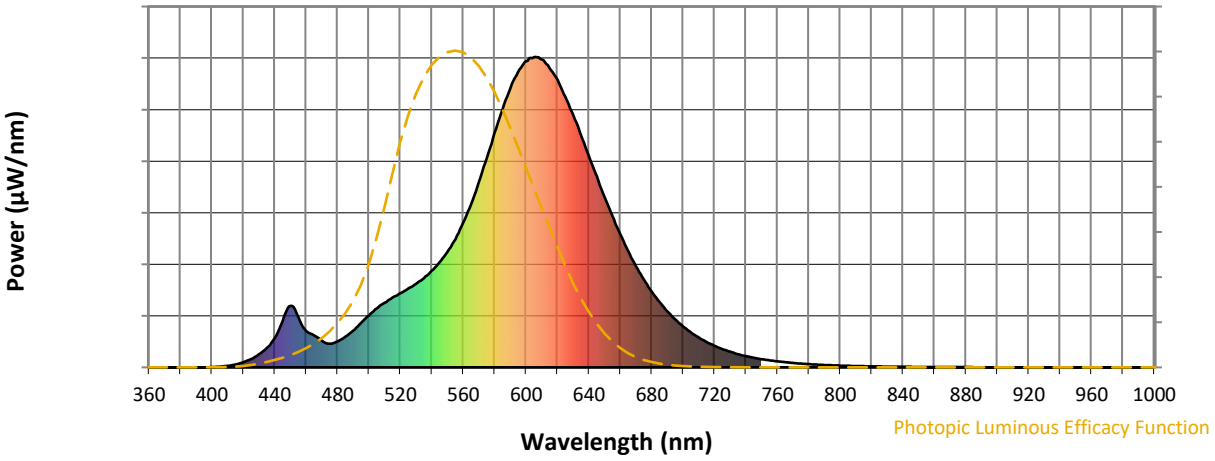


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

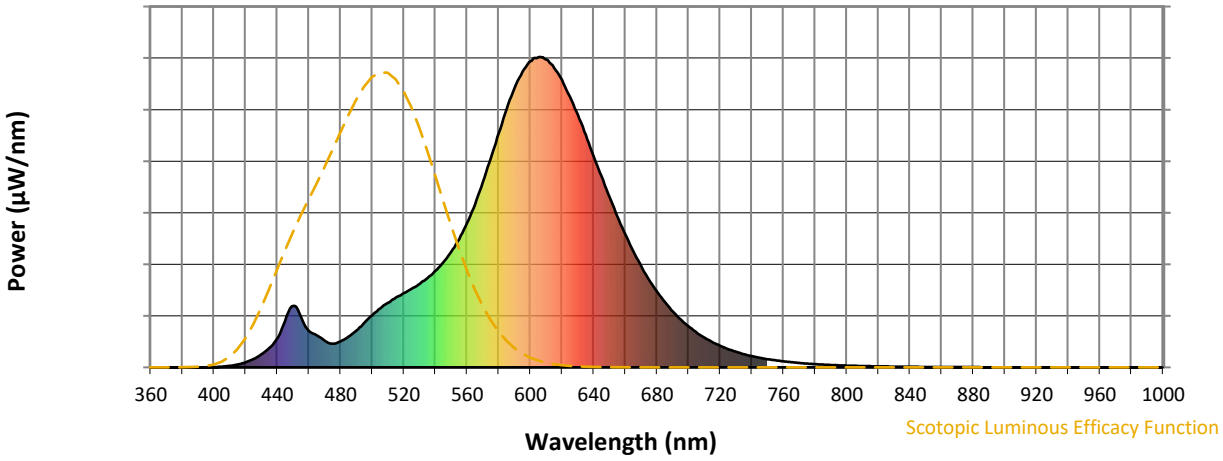


Photopic Lumens: NR

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

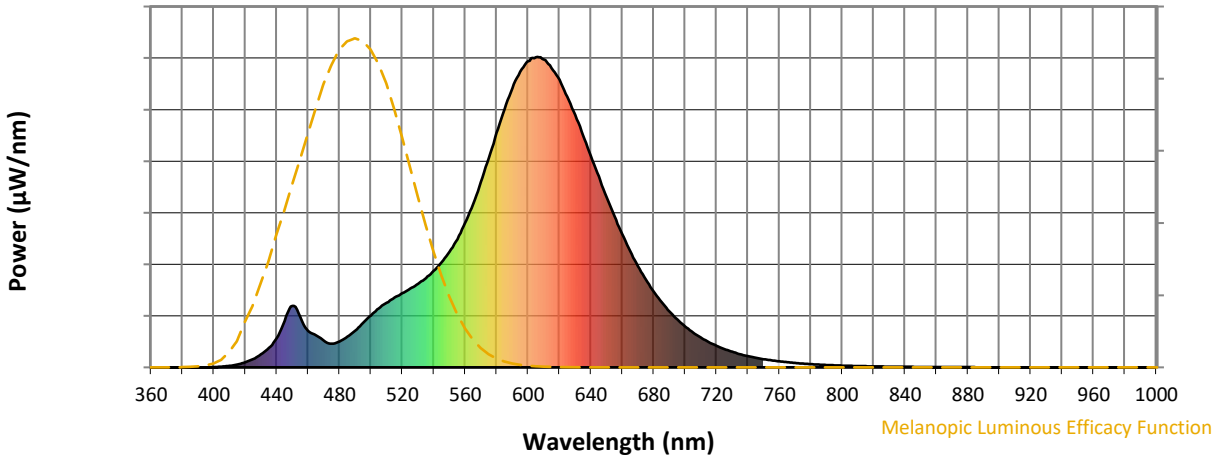


Scotopic Lumens: NR **S/P: 0.94**

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			

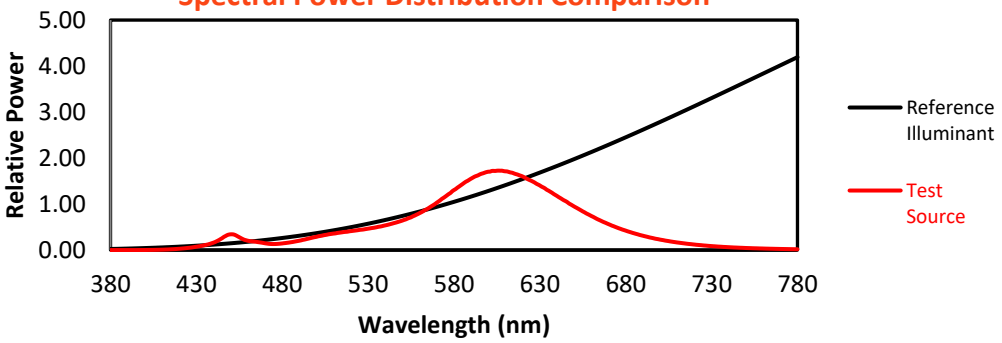
REPORT NUMBER: SP1-2501-332-2

TM-30-18

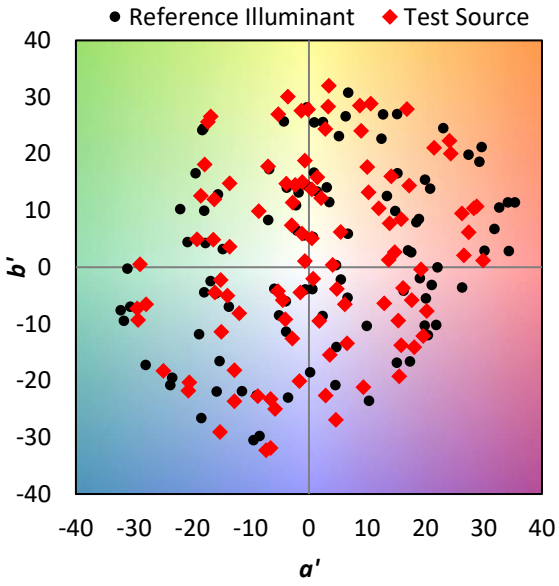
Summary

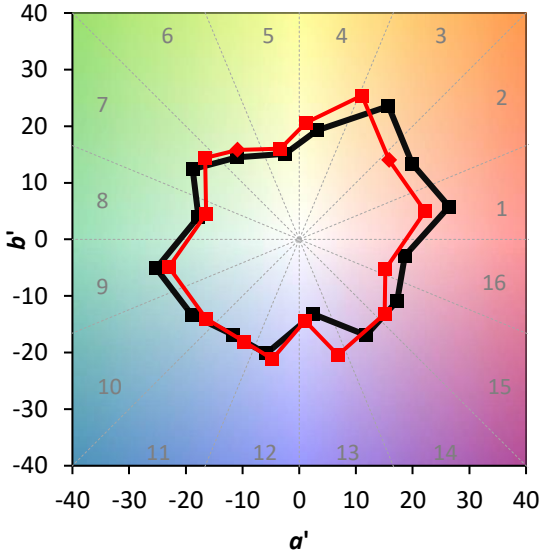
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

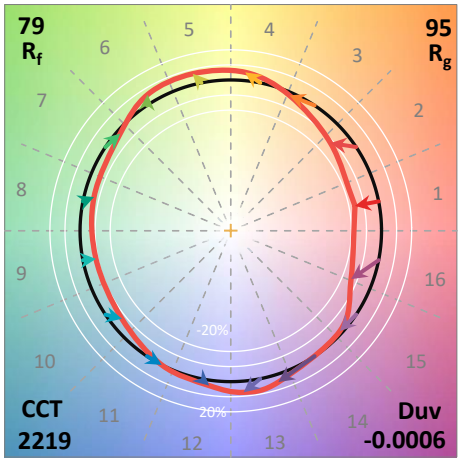
Spectral Power Distribution Comparison

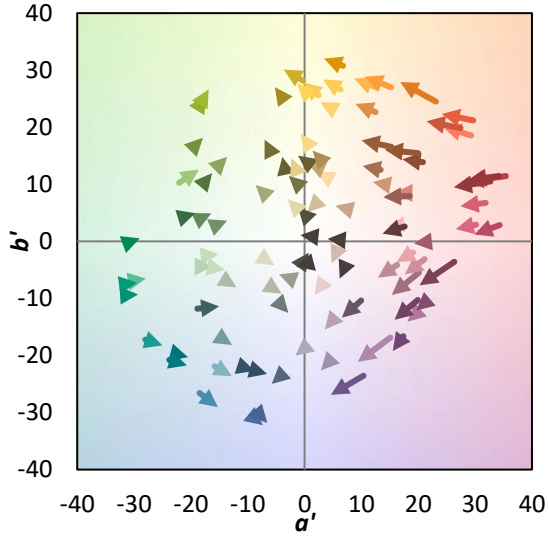


Color Vector Graphics







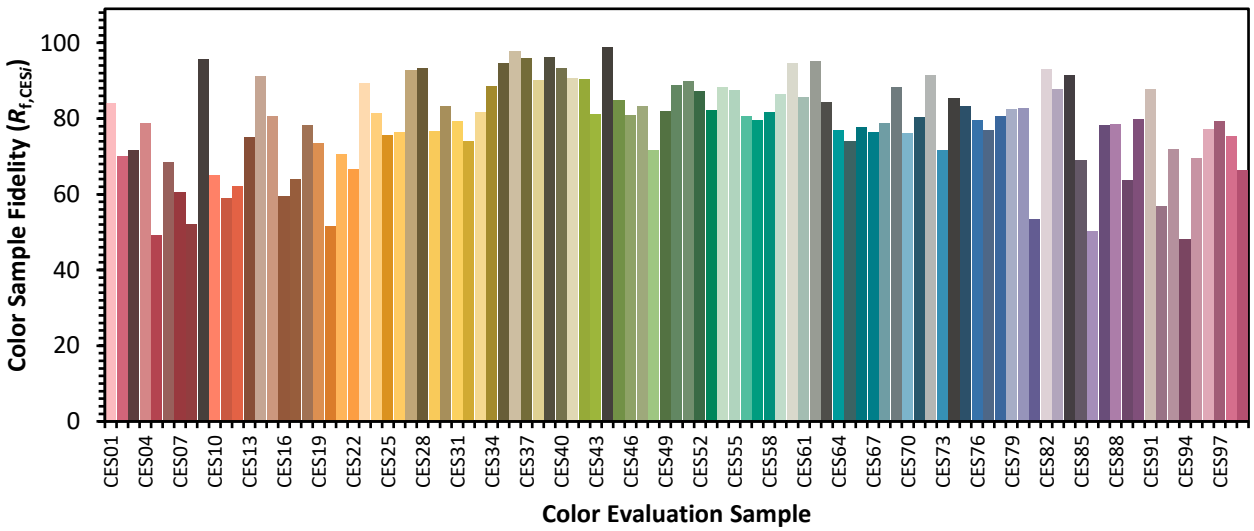


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

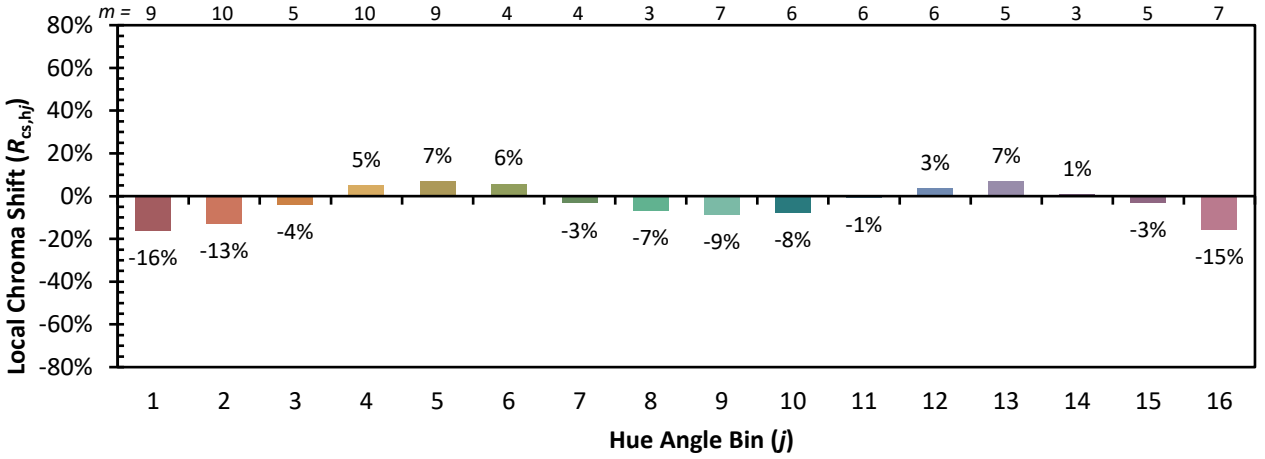
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

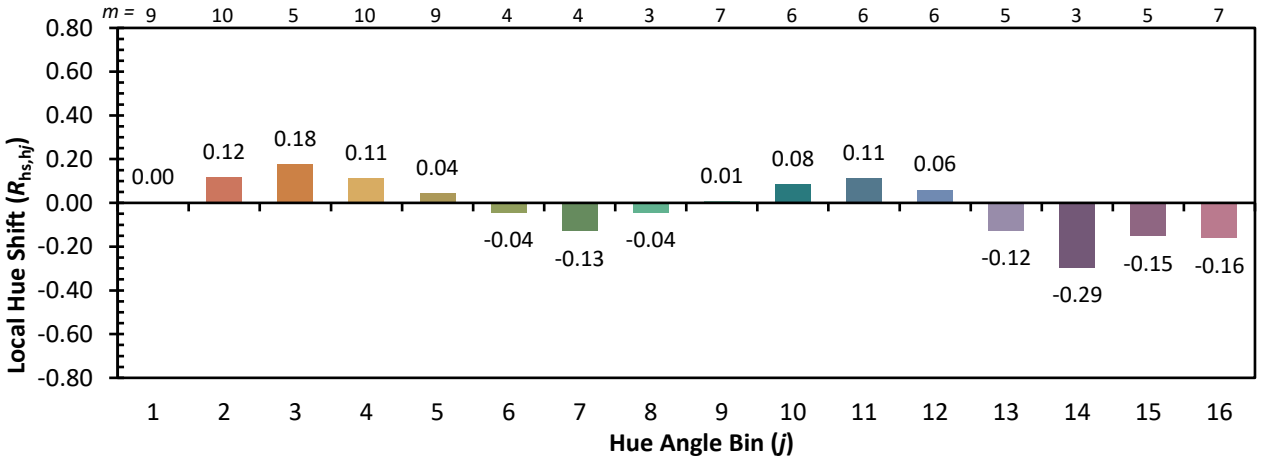


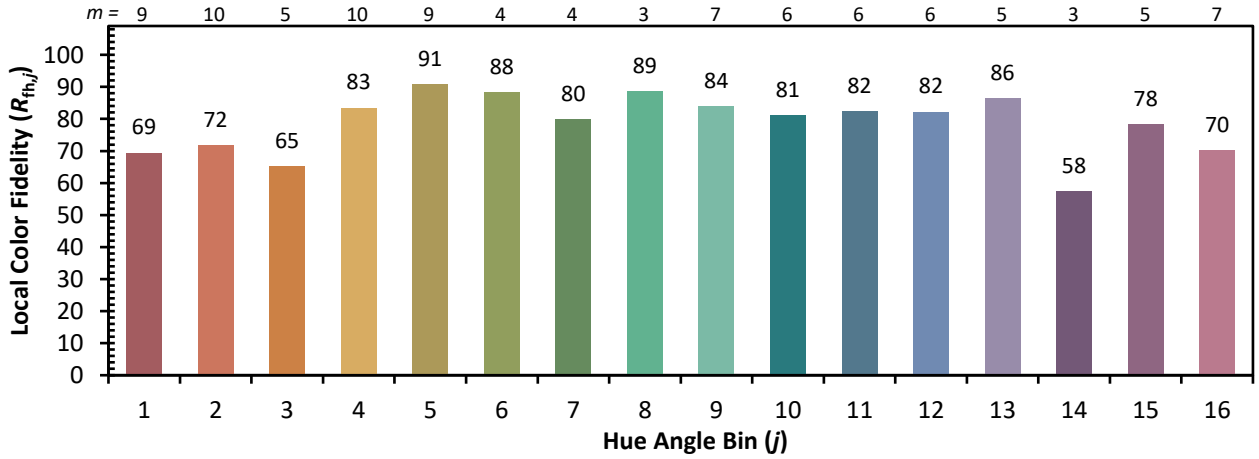
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Color Rendition by Hue-Angle Bin



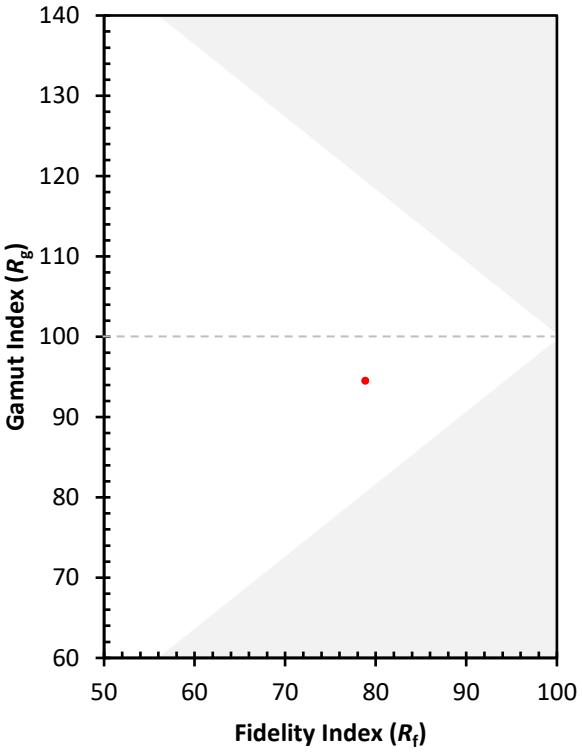


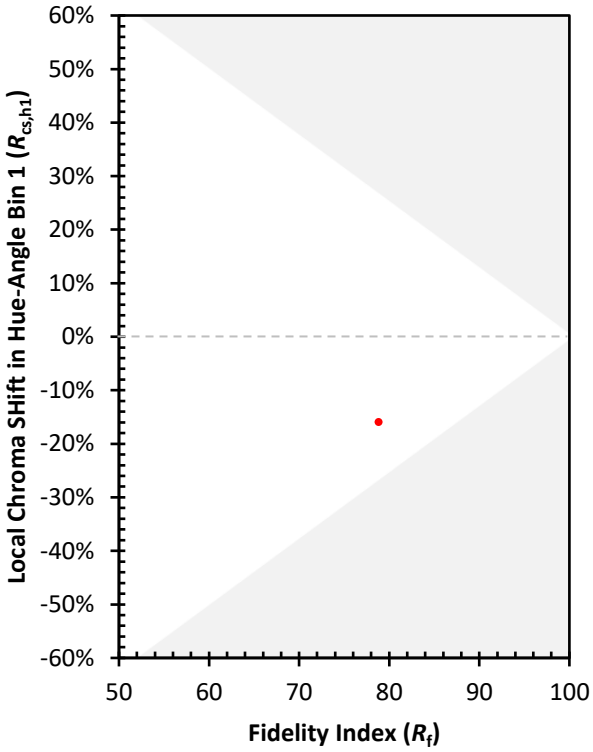


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Measure Comparisons





(END OF REPORT)