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: P1045871

Luminaire Tested: **FFX-CLB-60-722-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045871
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-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5415.8 lumens
Efficiency:	N/A
Efficacy:	89.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - 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

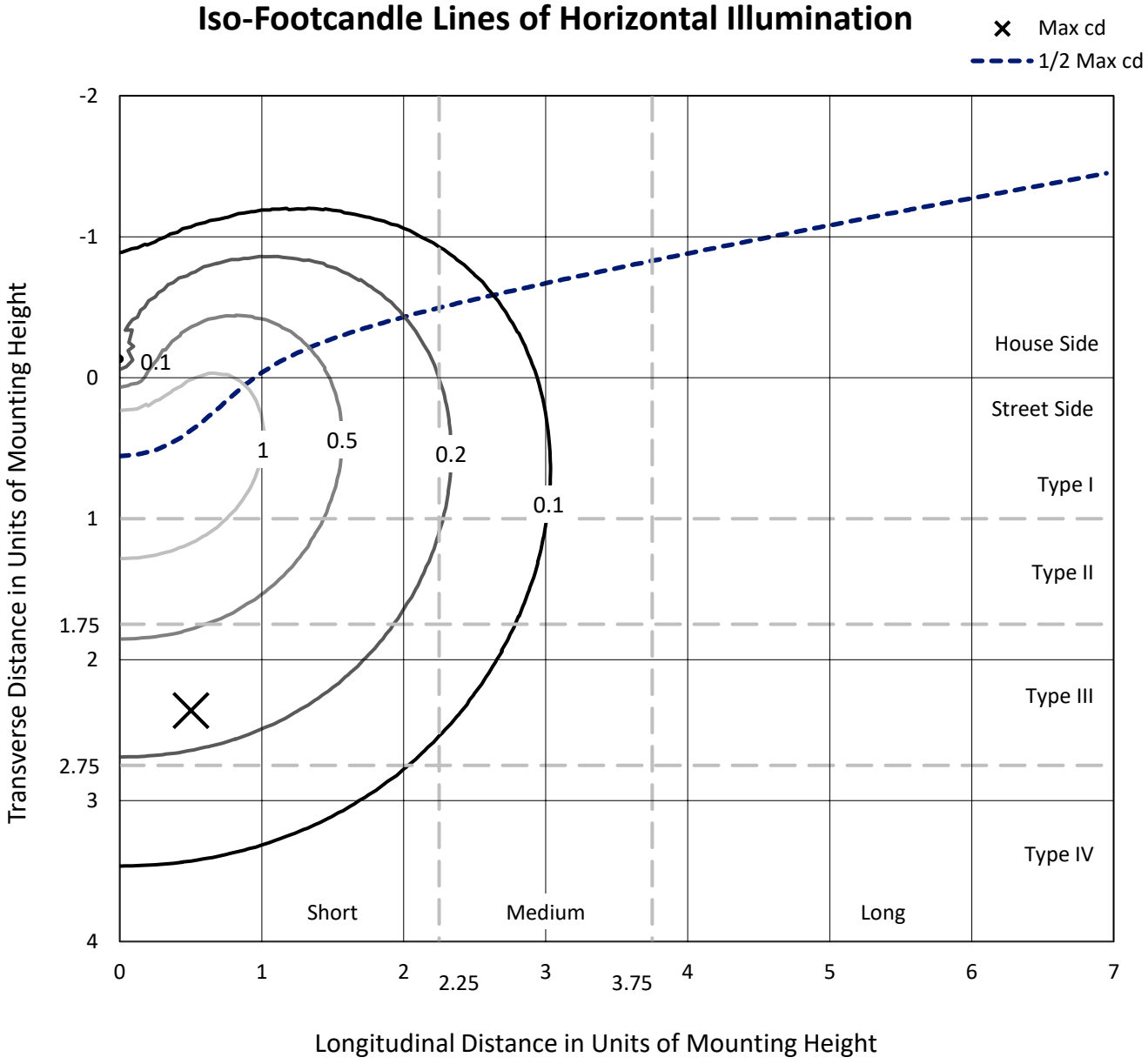


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Iso-Footcandle Lines of Horizontal Illumination



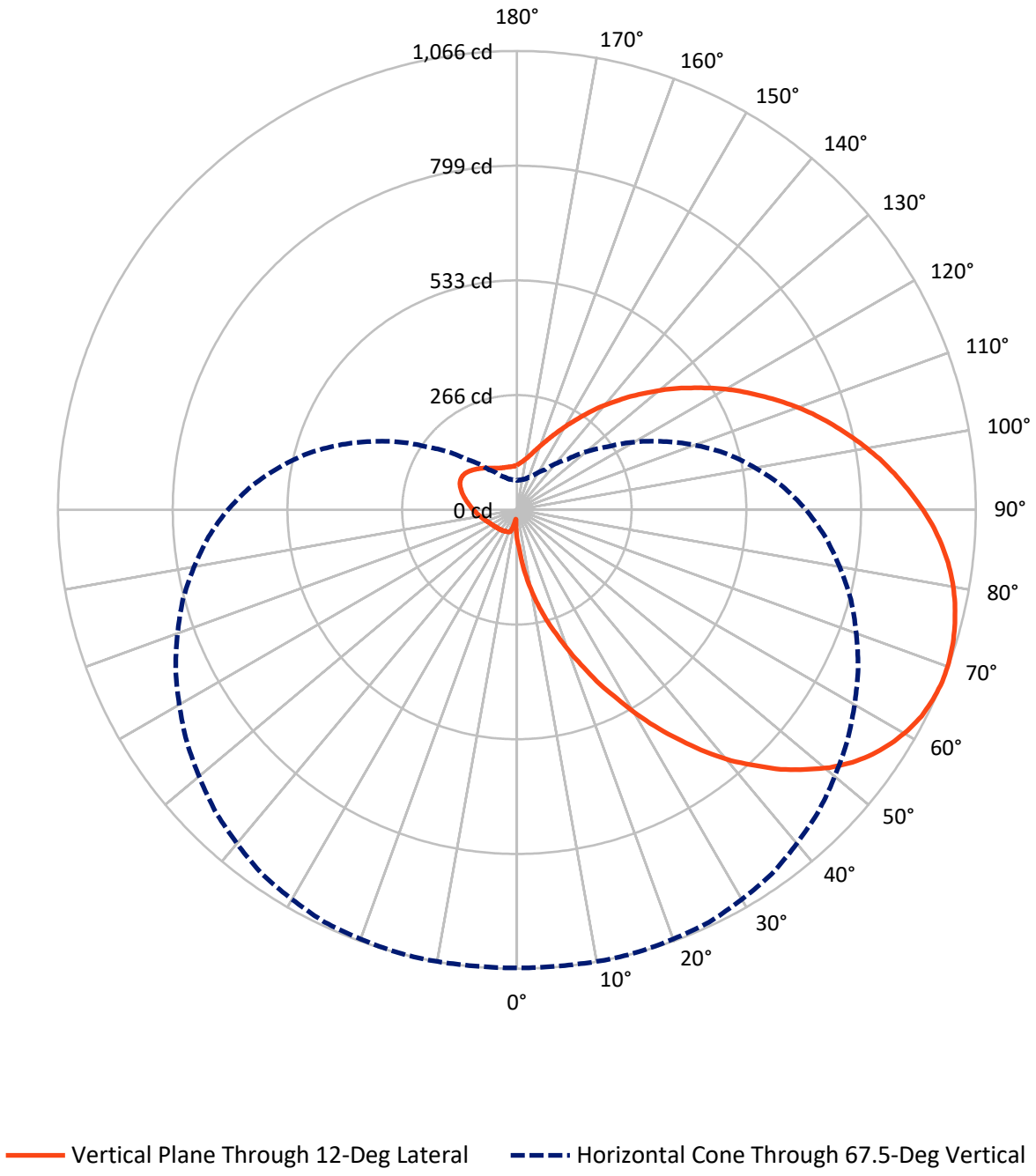
Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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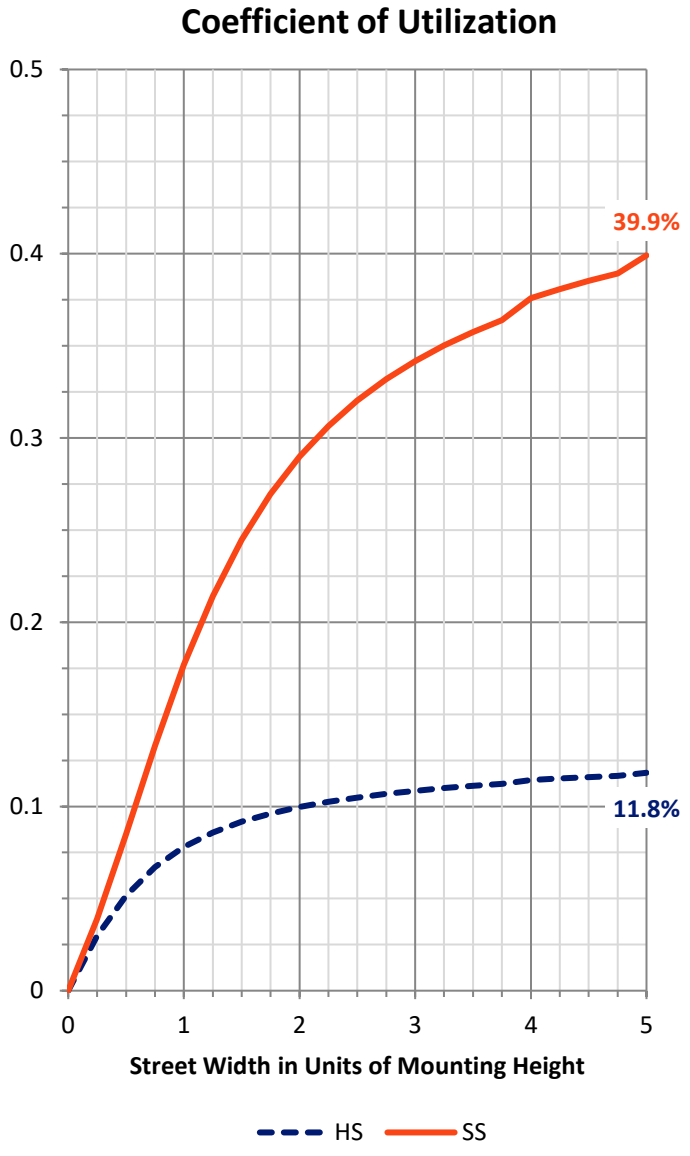
REPORT NUMBER: P1045871
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	696.9	674.6	1371.5
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	2464.2	1580.1	4044.3
	% Fixture	45.5	29.2	74.7
Total	Lumens	3161.1	2254.7	5415.8
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.2
10°-20°	48.2	0.9
20°-30°	125.7	2.3
30°-40°	243.9	4.5
40°-50°	383.0	7.1
50°-60°	508.4	9.4
60°-70°	592.5	10.9
70°-80°	629.5	11.6
80°-90°	621.5	11.5
90°-100°	573.1	10.6
100°-110°	500.1	9.2
110°-120°	411.1	7.6
120°-130°	311.3	5.7
130°-140°	212.6	3.9
140°-150°	130.3	2.4
150°-160°	71.5	1.3
160°-170°	34.5	0.6
170°-180°	10.2	0.2
0°-90°	3161.1	58.4
0°-180°	5415.8	100.0



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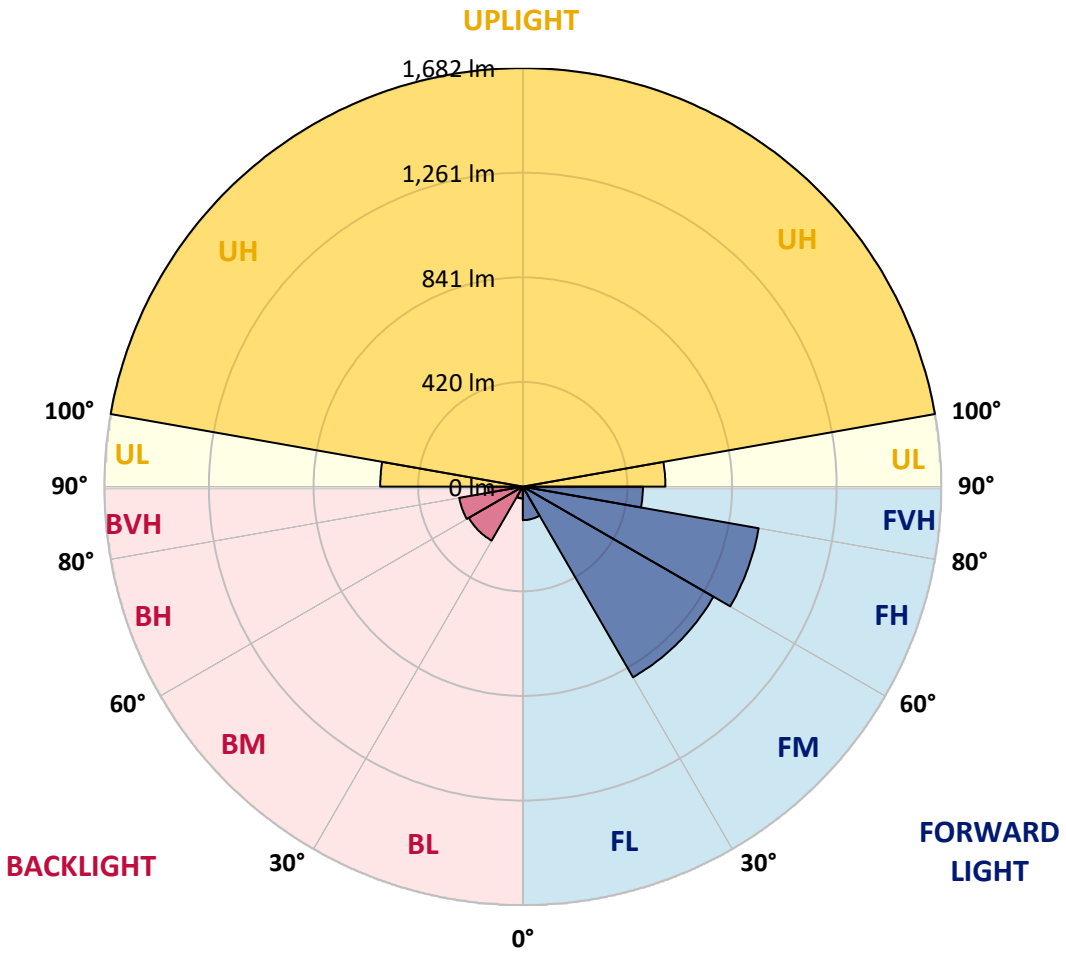
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	134.6	2.5			
FM	(30°-60°)	884.8	16.3			
FH	(60°-80°)	962.4	17.8			G1/1800
FVH	(80°-90°)	482.4	8.9			G3/500
BL	(0°-30°)	47.7	0.9	B0/110		
BM	(30°-60°)	250.6	4.6	B1/1000		
BH	(60°-80°)	259.5	4.8	B1/500		G1/500
BVH	(80°-90°)	139.1	2.6			G2/225
UL	(90°-100°)	573.1	10.6		U4/1000	
UH	(100°-180°)	1681.6	31.1		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
2.5°	85.8	87.6	85.8	88.2	87.0	87.0	84.0	81.0	76.9	72.1	67.9
5°	121.5	120.9	118.6	120.9	118.6	115.6	110.8	103.1	95.3	88.2	79.2
7.5°	158.5	159.1	157.3	156.7	151.3	147.2	139.4	131.7	122.1	111.4	100.7
10°	198.4	197.2	194.2	194.8	188.9	180.5	171.6	162.7	151.9	139.4	125.7
12.5°	235.3	235.3	233.0	233.6	227.0	217.5	210.3	198.4	185.3	170.4	153.7
15°	274.7	272.3	271.1	271.1	264.5	256.2	248.4	235.3	219.8	203.2	184.1
17.5°	311.0	310.4	309.2	309.8	303.9	296.7	284.2	271.1	252.6	232.4	212.7
20°	357.5	355.1	353.3	350.3	346.8	337.2	325.3	308.0	289.6	267.5	241.3
22.5°	399.8	402.8	398.0	395.6	390.8	383.1	365.8	349.1	327.1	301.5	272.9
25°	448.6	451.0	449.2	446.3	439.7	429.0	412.9	394.4	368.2	339.0	305.0
27.5°	499.9	501.7	496.9	498.1	486.8	476.6	460.5	437.9	412.9	378.3	342.6
30°	550.5	554.1	552.3	548.1	538.6	529.7	510.6	486.8	458.2	420.0	378.9
32.5°	610.1	605.9	606.5	601.8	595.8	581.5	564.8	538.0	504.6	464.1	417.1
35°	665.5	663.7	658.9	661.3	651.2	638.1	617.2	588.6	552.3	507.6	455.8
37.5°	715.0	716.7	713.8	712.0	705.4	690.5	666.1	636.9	595.2	548.1	491.5
40°	765.6	766.8	766.2	766.2	757.3	740.6	715.6	682.8	639.9	589.2	527.9
42.5°	813.9	815.0	812.1	812.7	805.5	788.2	761.4	726.9	679.2	626.2	559.5
45°	860.3	860.3	860.3	859.7	849.6	833.5	806.1	766.8	719.1	658.9	588.6
47.5°	903.2	902.0	901.4	901.4	894.9	875.8	846.6	803.7	751.9	688.7	617.2
50°	941.4	942.0	941.4	940.2	930.0	914.5	881.8	837.1	782.3	717.3	641.1
52.5°	974.1	974.7	975.3	972.3	965.8	947.3	911.0	863.3	807.9	740.0	660.7
55°	1000.3	1001.5	1002.7	1001.5	995.0	972.9	936.6	888.3	828.8	759.0	678.0
57.5°	1024.8	1024.2	1024.8	1023.6	1016.4	995.0	957.4	905.6	845.4	774.5	691.1
60°	1041.5	1042.0	1042.0	1042.0	1033.7	1011.7	971.7	918.7	857.3	786.5	702.4
62.5°	1052.8	1053.4	1055.2	1054.0	1046.2	1023.0	981.9	928.2	866.3	794.2	710.2
65°	1060.5	1061.1	1062.3	1061.1	1054.0	1030.1	988.4	934.2	872.2	800.2	715.6
67.5°	1064.1	1064.1	1065.9	1065.3	1056.9	1032.5	990.8	936.6	874.6	803.1	719.1
70°	1062.3	1062.9	1064.1	1063.5	1055.2	1030.7	989.0	935.4	874.0	803.1	719.7
72.5°	1058.1	1058.1	1059.3	1058.1	1050.4	1026.0	984.9	931.8	871.1	801.9	719.1
75°	1049.8	1050.4	1051.0	1050.4	1042.0	1018.2	977.7	925.3	866.3	797.8	716.7
77.5°	1039.7	1040.3	1040.3	1040.3	1031.3	1007.5	968.2	916.9	859.7	793.0	712.6
80°	1024.8	1025.4	1026.6	1025.4	1016.4	995.0	955.7	906.8	851.4	785.3	707.2
82.5°	1008.1	1007.5	1009.3	1008.7	999.7	978.3	939.6	893.1	838.9	776.3	699.5
85°	987.2	987.2	988.4	987.2	979.5	956.8	920.5	876.4	824.6	763.2	689.9
87.5°	964.0	964.0	965.2	962.8	953.9	934.2	899.7	856.8	809.1	750.1	679.2
90°	936.6	937.8	937.8	936.0	927.1	908.0	876.4	835.3	788.8	734.0	666.7
92.5°	910.4	910.4	909.2	909.2	899.7	880.6	851.4	813.9	770.4	717.9	653.0
95°	882.4	882.4	880.6	879.4	869.9	853.8	825.8	791.2	749.5	701.3	639.3
97.5°	852.6	852.0	850.8	849.6	840.1	824.6	799.6	766.2	728.1	682.2	624.4
100°	822.2	822.8	818.6	818.0	808.5	795.4	771.6	740.6	705.4	662.5	608.3
102.5°	788.8	790.0	786.5	785.9	776.3	762.0	743.0	715.0	683.4	644.1	592.2
105°	759.0	756.1	754.3	753.1	744.7	731.6	711.4	689.3	659.5	622.6	574.3
107.5°	725.1	725.7	722.1	719.7	711.4	700.7	682.8	662.5	636.3	601.2	557.1
110°	691.1	689.9	688.1	687.0	677.4	667.9	652.4	635.7	610.1	579.7	538.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	656.0	656.6	*653.6*	651.8	645.2	635.1	623.8	607.7	585.7	557.1	518.3
115°	623.2	622.0	*619.6*	618.4	611.3	603.5	592.2	580.3	560.6	533.2	498.1
117.5°	589.8	587.5	*586.9*	585.1	579.7	572.0	563.0	552.9	533.8	510.0	476.6
120°	555.3	555.3	*554.1*	552.9	545.7	539.2	533.8	523.1	507.0	484.4	455.8
122.5°	523.1	522.5	*520.1*	518.3	514.8	508.8	502.3	493.9	479.6	459.4	432.0
125°	488.0	489.1	*487.4*	486.8	480.8	477.8	471.9	466.5	451.6	433.1	408.7
127.5°	458.8	457.0	*457.0*	454.0	451.0	448.0	443.3	436.1	426.0	406.9	384.3
130°	427.8	426.6	*424.8*	424.8	421.2	417.1	414.1	408.1	396.8	381.3	359.9
132.5°	396.8	395.6	*394.4*	392.6	390.2	389.7	386.7	380.1	369.4	355.7	337.2
135°	367.6	367.0	*366.4*	366.4	362.8	361.1	357.5	352.1	345.0	332.5	314.6
137.5°	340.2	338.4	*337.2*	337.2	336.0	333.0	330.1	325.9	318.2	308.0	291.9
140°	311.6	312.8	*312.8*	312.2	309.8	308.0	304.5	300.9	293.1	284.8	271.1
142.5°	287.8	287.2	*286.0*	285.4	284.2	281.8	280.0	275.9	271.1	262.2	250.2
145°	262.2	262.2	*261.6*	262.2	259.8	259.2	256.8	253.2	247.9	240.1	230.0
147.5°	239.5	239.5	*238.9*	239.5	237.7	235.9	234.1	231.8	227.0	221.0	212.1
150°	218.7	219.3	*218.1*	218.1	217.5	215.7	214.5	210.9	207.3	202.6	194.8
152.5°	199.6	200.2	*199.6*	199.0	198.4	197.2	195.4	193.0	189.5	185.3	178.7
155°	183.5	182.9	*182.9*	182.9	182.3	180.5	180.5	177.0	173.4	170.4	163.8
157.5°	168.0	168.0	*168.0*	168.0	166.8	166.2	165.0	162.1	160.3	156.1	151.3
160°	155.5	154.9	*154.9*	154.9	153.7	153.1	151.3	150.1	147.8	144.2	140.6
162.5°	143.0	143.6	*143.6*	143.6	142.4	141.8	140.6	139.4	137.6	134.1	131.7
165°	133.5	133.5	*133.5*	132.9	132.3	132.3	130.5	129.9	128.1	125.7	123.9
167.5°	125.7	125.7	*125.1*	125.7	124.5	123.3	122.7	121.5	120.4	119.2	117.4
170°	119.2	119.2	*119.2*	119.2	118.6	118.0	116.8	116.2	115.0	113.8	112.0
172.5°	113.8	113.8	*113.8*	113.8	113.2	112.6	111.4	110.8	110.2	109.0	107.8
175°	109.6	109.6	*109.6*	109.6	109.0	108.4	107.2	107.2	106.6	106.1	104.9
177.5°	106.6	106.6	*106.1*	106.1	105.5	104.9	104.9	104.3	104.3	103.7	103.1
180°	103.1	103.1	*103.1*	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
2.5°	65.5	63.2	59.0	55.4	51.2	48.3	45.3	44.7	44.7	45.9	45.9
5°	75.7	70.3	62.0	54.2	45.3	38.7	32.8	27.4	23.8	22.0	22.0
7.5°	94.7	90.6	78.0	67.3	56.6	46.5	36.9	28.6	22.6	18.5	17.9
10°	119.2	112.6	97.7	84.0	69.7	57.2	45.9	35.7	28.6	25.0	25.0
12.5°	145.4	136.4	118.6	101.9	85.2	69.1	56.0	45.9	38.7	35.2	34.0
15°	173.4	163.2	141.8	120.4	100.1	82.8	67.9	55.4	48.3	44.7	44.1
17.5°	199.6	188.3	163.8	138.2	115.0	94.1	76.3	63.2	54.2	50.0	49.5
20°	228.2	213.3	184.7	154.9	127.5	102.5	82.2	66.7	56.0	51.2	50.6
22.5°	257.4	240.1	206.1	171.6	138.8	110.2	86.4	68.5	56.6	51.2	50.6
25°	288.4	269.3	229.4	189.5	151.3	118.0	90.6	70.3	57.8	51.2	50.6
27.5°	321.1	299.7	253.8	208.5	163.8	125.7	94.7	72.7	58.4	51.8	50.6
30°	356.3	331.9	278.8	227.0	175.8	132.9	98.3	73.9	59.0	51.8	51.2
32.5°	391.4	361.6	306.2	244.9	188.3	139.4	101.9	75.7	59.6	52.4	51.8
35°	425.4	396.2	331.3	263.3	200.2	146.0	104.9	76.9	60.8	53.0	51.8
37.5°	460.0	428.4	355.1	280.6	210.9	151.3	107.2	78.0	61.4	53.6	52.4
40°	492.7	455.8	378.3	297.3	219.8	156.1	109.0	78.6	62.0	54.2	53.0
42.5°	523.7	484.4	400.4	311.6	228.8	159.7	110.8	79.8	62.6	54.8	54.2
45°	549.9	509.4	419.4	325.9	235.3	162.7	112.0	80.4	63.2	55.4	54.8
47.5°	575.5	532.0	437.3	337.2	241.9	165.6	112.6	81.0	63.8	56.6	56.0
50°	598.2	552.3	453.4	347.3	246.7	166.8	113.2	81.6	64.9	57.8	57.2
52.5°	617.2	569.6	465.9	355.7	250.2	168.0	113.2	81.6	65.5	59.0	58.4
55°	632.7	584.5	477.2	361.6	252.6	168.6	113.2	82.2	66.7	60.2	59.6
57.5°	645.8	595.8	486.2	367.0	255.0	168.6	113.2	82.8	67.9	61.4	60.8
60°	655.4	605.3	492.7	370.6	255.6	168.0	113.2	83.4	69.1	63.2	62.6
62.5°	663.1	611.9	498.1	373.0	255.6	166.8	113.2	84.0	70.3	64.9	64.3
65°	668.5	616.6	501.7	374.2	255.0	166.2	113.2	85.2	72.1	66.7	66.1
67.5°	*671.5*	*620.2*	*504.0*	*375.4*	*254.4*	*166.2*	*113.8*	*87.0*	*73.9*	*69.1*	*68.5*
70°	672.7	620.8	504.6	374.8	253.8	165.0	114.4	88.2	76.3	71.5	70.9
72.5°	672.7	621.4	504.6	374.8	252.6	165.6	115.0	90.0	78.6	73.9	73.3
75°	670.9	619.6	504.0	373.6	252.0	165.0	116.8	92.3	81.0	76.9	76.3
77.5°	667.3	617.2	502.3	371.8	251.4	165.6	118.0	94.7	84.0	79.8	79.8
80°	663.1	613.7	499.9	370.0	250.8	166.8	119.8	97.7	87.0	83.4	82.8
82.5°	656.6	608.3	495.7	367.6	249.6	167.4	122.1	100.7	90.6	86.4	86.4
85°	647.6	600.6	490.3	364.6	248.4	168.6	124.5	103.1	94.1	90.0	90.0
87.5°	638.1	592.2	483.8	361.1	247.9	169.8	127.5	106.6	97.1	93.5	92.9
90°	626.8	582.1	477.2	356.9	247.3	171.6	129.9	110.2	101.3	97.7	97.1
92.5°	614.9	572.0	470.1	353.9	246.7	173.4	133.5	114.4	105.5	101.9	101.3
95°	602.9	561.2	462.9	349.7	246.7	175.8	137.0	118.6	109.6	106.1	105.5
97.5°	589.2	549.3	454.6	346.2	246.7	178.7	141.2	122.7	113.8	110.2	110.2
100°	574.9	537.4	446.3	342.6	247.3	181.7	145.4	127.5	118.6	115.0	115.0
102.5°	560.6	524.3	438.5	339.6	248.4	185.9	150.7	132.9	123.9	120.4	119.8
105°	545.2	511.2	429.6	335.4	249.6	189.5	155.5	137.6	128.7	125.1	125.1
107.5°	529.7	497.5	420.6	332.5	250.8	193.0	160.9	143.0	134.1	129.9	129.9
110°	512.4	482.6	411.1	328.9	252.0	197.2	165.0	147.8	138.2	134.6	134.1

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

Scaled Data Report

REPORT NUMBER: P1045871
CATALOG NUMBER: FFX-CLB-60-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	494.5	467.7	401.0	324.1	252.6	200.8	169.8	152.5	143.0	138.8	138.2
115°	475.4	451.0	389.7	319.3	252.6	203.8	173.4	156.1	146.6	142.4	141.8
117.5°	456.4	433.1	377.1	312.8	252.0	205.5	176.4	158.5	148.9	144.8	144.2
120°	436.1	415.3	364.6	306.2	249.6	206.1	177.5	160.3	150.1	146.0	145.4
122.5°	415.3	396.2	349.7	297.3	246.1	205.5	177.5	160.3	150.1	145.4	144.8
125°	392.6	375.9	334.2	286.6	240.7	203.2	176.4	159.1	148.9	144.2	143.0
127.5°	370.6	355.7	318.2	275.9	234.1	199.6	174.0	156.7	146.6	141.8	141.2
130°	349.1	334.2	301.5	263.9	226.4	194.8	169.8	153.1	143.6	138.2	137.6
132.5°	326.5	312.8	284.8	251.4	217.5	188.9	165.6	149.5	139.4	135.2	134.1
135°	303.9	293.1	267.5	238.3	208.5	182.3	160.9	145.4	135.8	131.1	131.1
137.5°	283.6	272.9	250.2	225.2	199.0	174.6	154.9	140.6	131.7	127.5	126.9
140°	262.7	254.4	234.1	212.1	188.9	167.4	150.1	136.4	128.1	123.9	123.3
142.5°	243.1	234.7	218.7	198.4	178.7	159.7	144.2	131.7	123.9	120.4	119.8
145°	223.4	217.5	202.0	185.9	168.6	151.9	137.6	126.9	120.4	116.8	116.8
147.5°	206.1	200.8	187.1	173.4	158.5	144.8	132.3	122.7	116.8	113.8	113.2
150°	189.5	184.7	173.4	162.1	148.4	137.0	126.3	118.6	113.2	110.8	110.2
152.5°	174.0	170.4	160.9	151.3	140.0	129.9	121.5	115.0	110.2	107.8	107.8
155°	160.9	157.9	149.5	141.2	132.3	123.9	116.8	111.4	107.8	106.1	105.5
157.5°	149.5	146.0	139.4	132.9	125.7	118.6	113.2	108.4	106.1	104.3	104.3
160°	138.8	135.8	130.5	125.7	119.8	114.4	109.6	106.6	104.3	103.1	103.1
162.5°	129.9	127.5	123.3	119.2	115.0	110.8	107.2	104.9	103.1	101.9	101.9
165°	122.1	120.9	117.4	114.4	110.8	107.8	105.5	103.7	102.5	101.9	101.9
167.5°	116.2	115.0	112.6	110.2	107.8	105.5	103.7	102.5	101.9	101.3	101.3
170°	111.4	110.2	109.0	107.2	105.5	103.7	102.5	101.9	101.3	101.3	101.3
172.5°	107.8	106.6	106.1	104.9	103.7	102.5	101.9	101.3	101.3	101.3	101.3
175°	104.9	104.3	103.7	103.1	102.5	101.9	101.3	101.3	101.3	101.3	101.3
177.5°	103.1	102.5	102.5	101.9	101.9	101.3	101.3	101.9	101.9	101.9	102.5
180°	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1

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

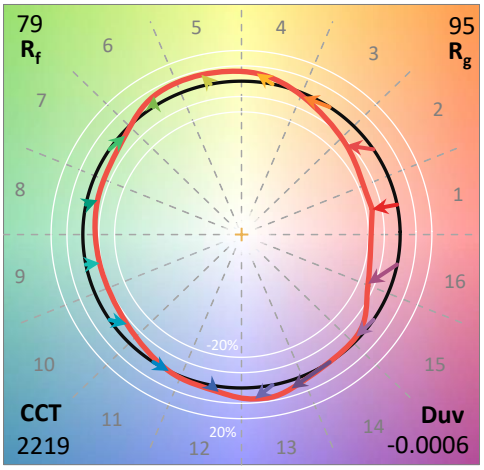
Test Information

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

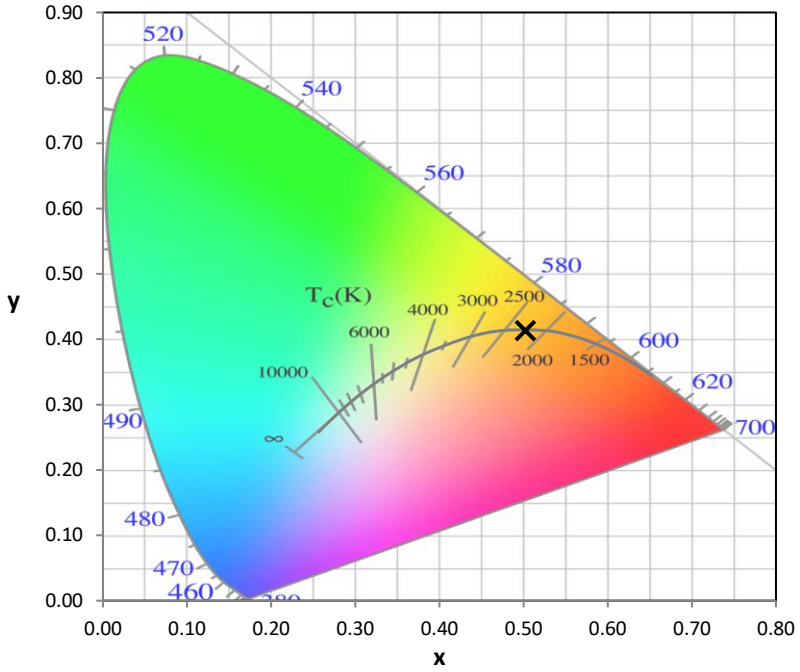
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

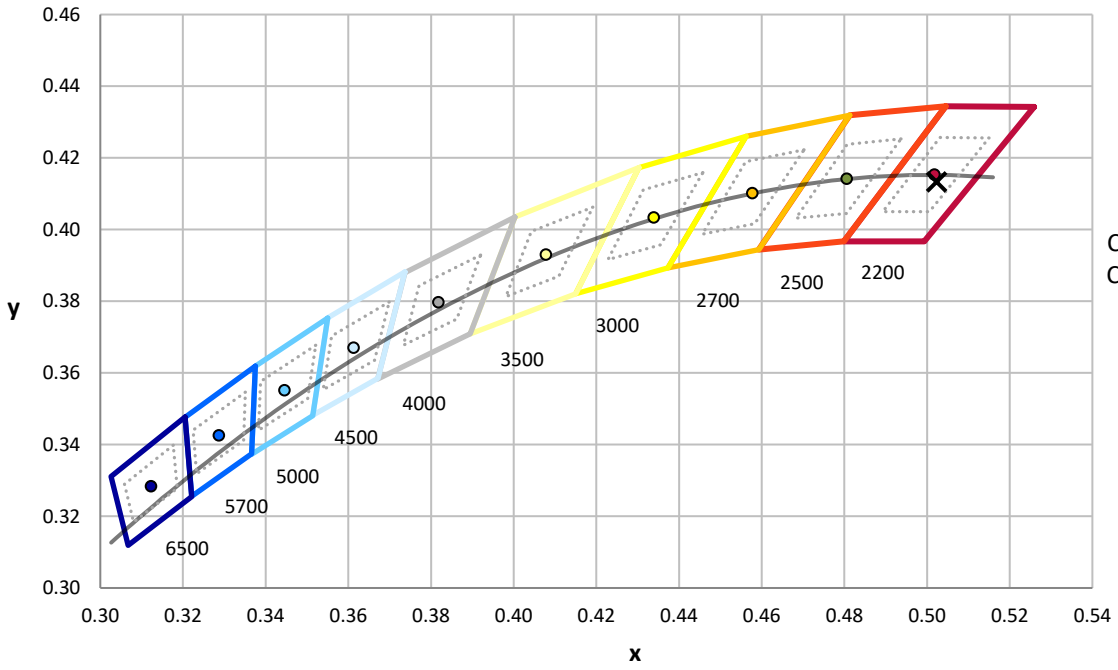
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

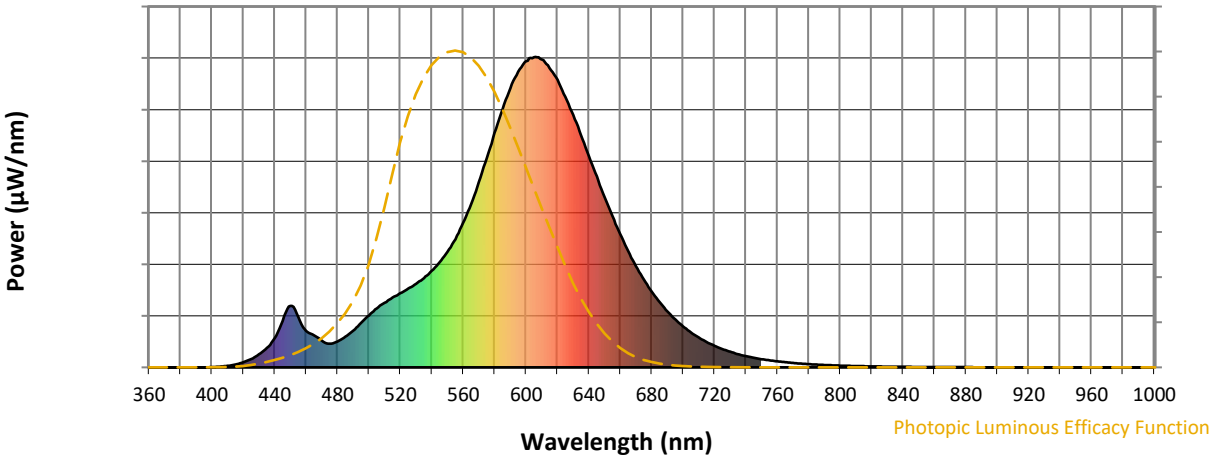


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

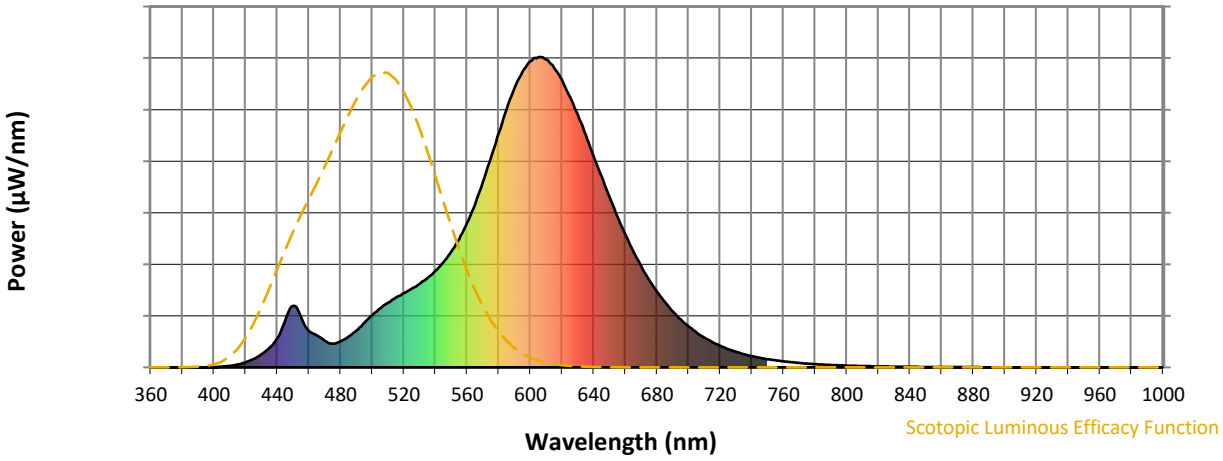


Photopic Lumens: NR

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

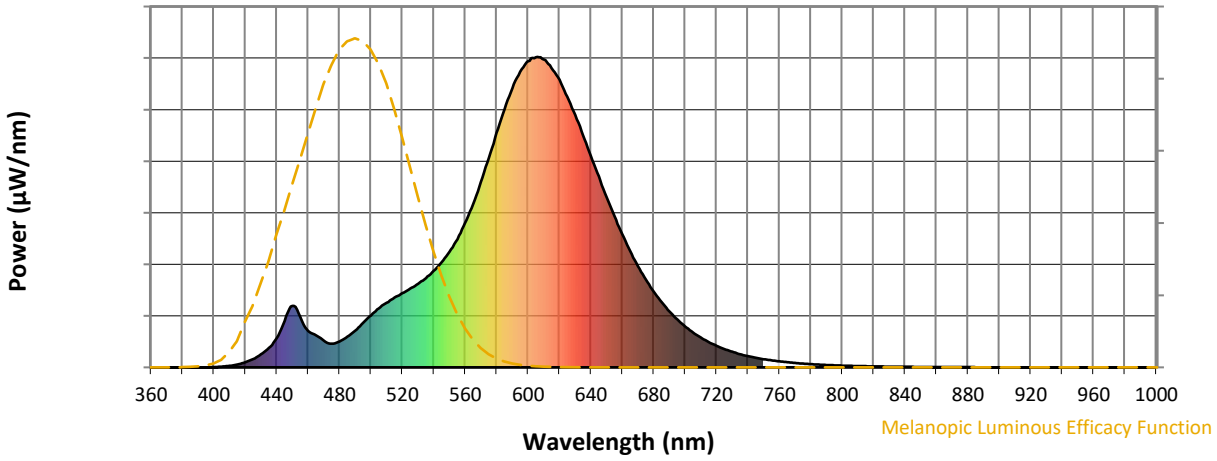


Scotopic Lumens: NR **S/P: 0.94**

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			

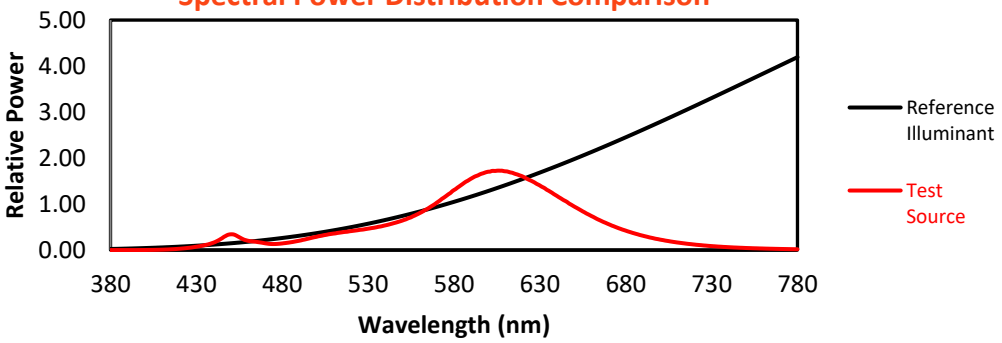
REPORT NUMBER: SP1-2501-332-2

TM-30-18

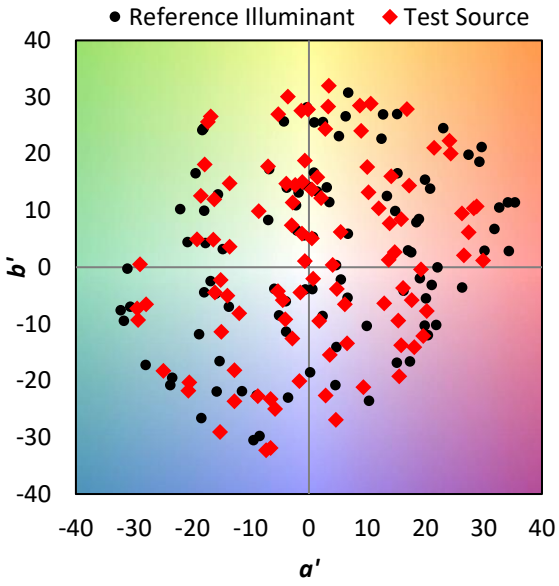
Summary

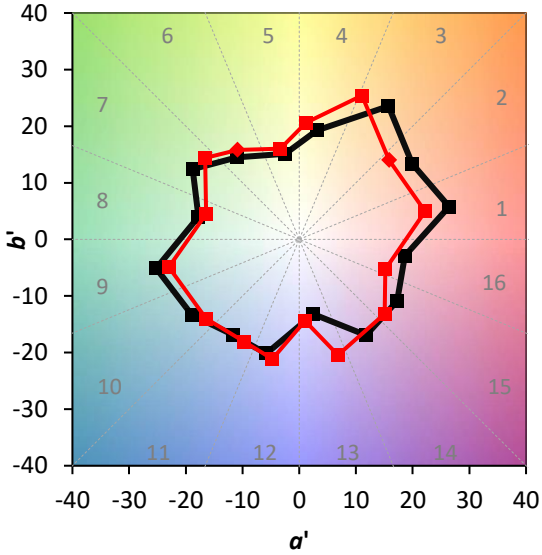
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

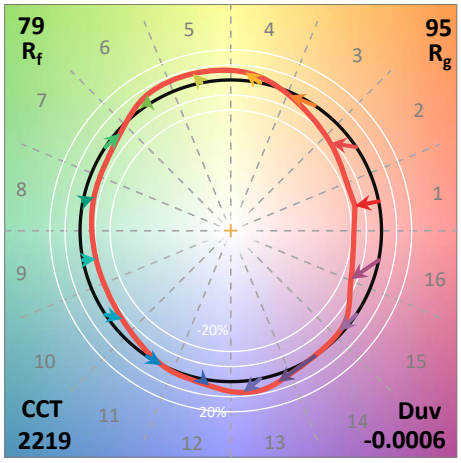
Spectral Power Distribution Comparison

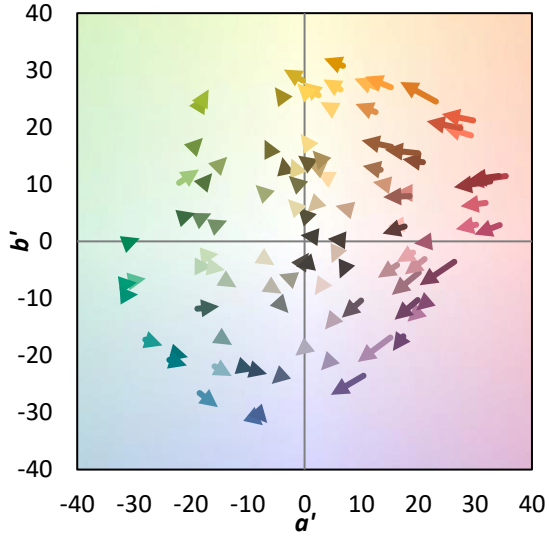


Color Vector Graphics







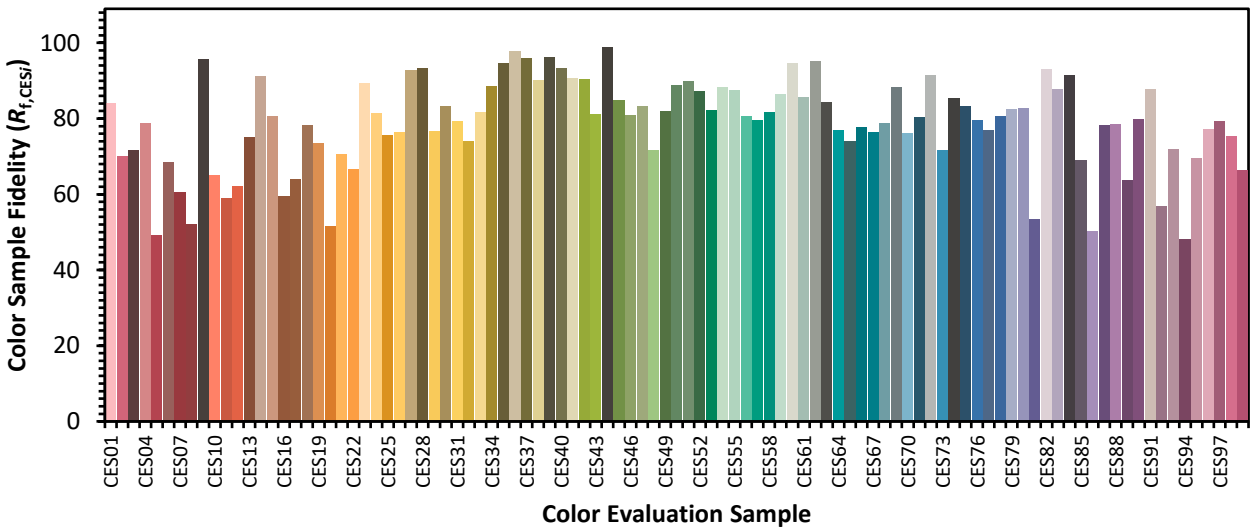


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

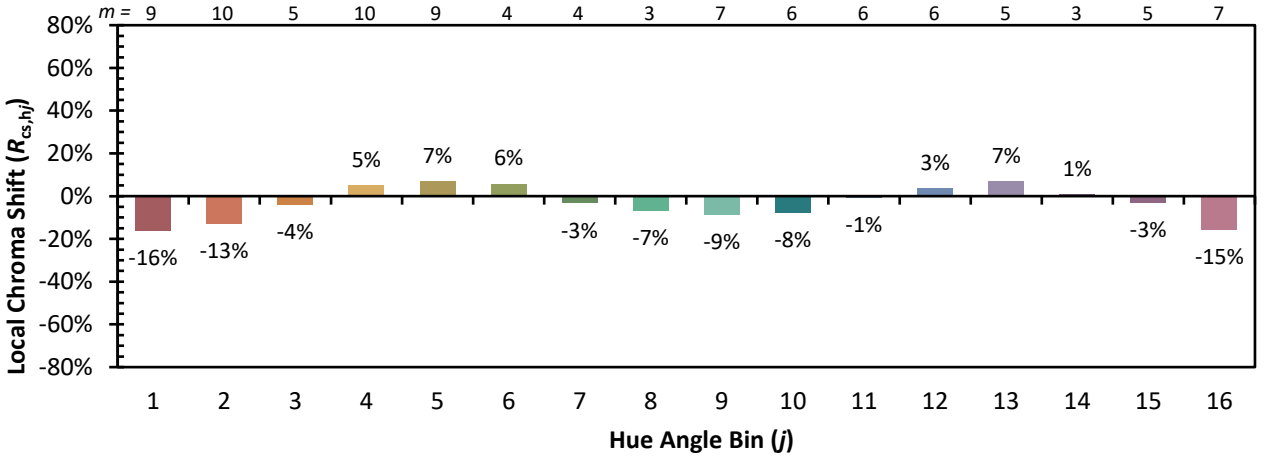
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82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

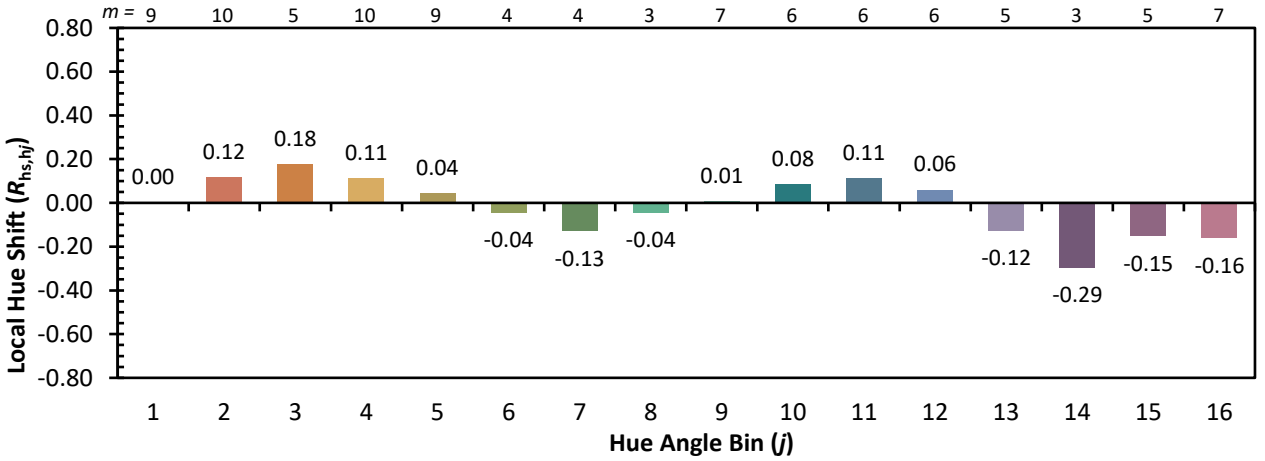


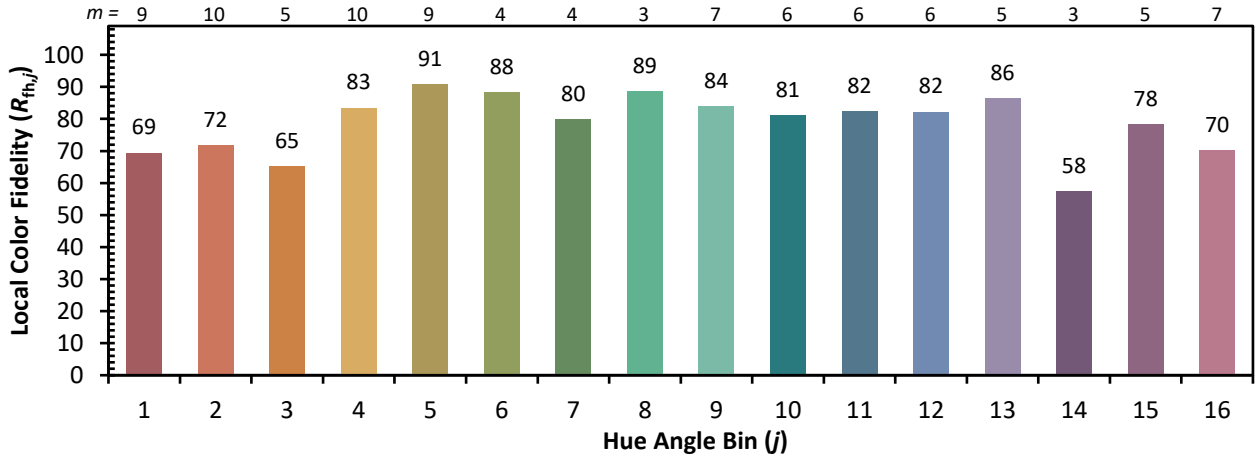
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Color Rendition by Hue-Angle Bin



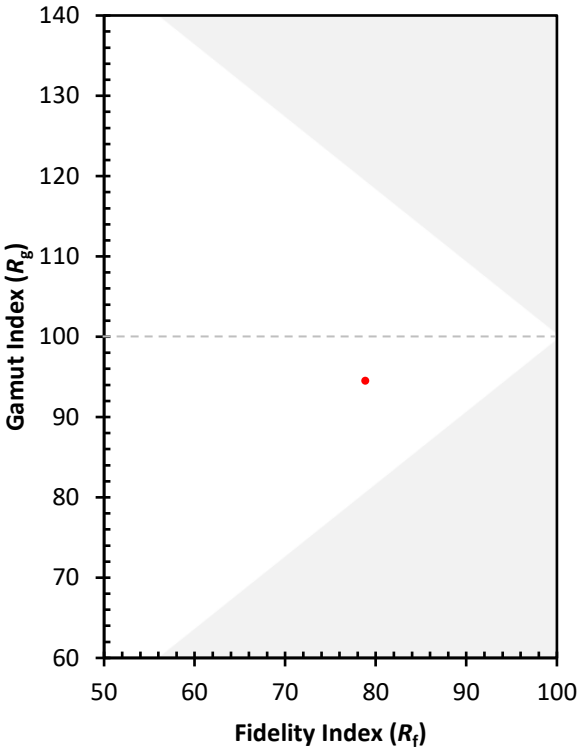


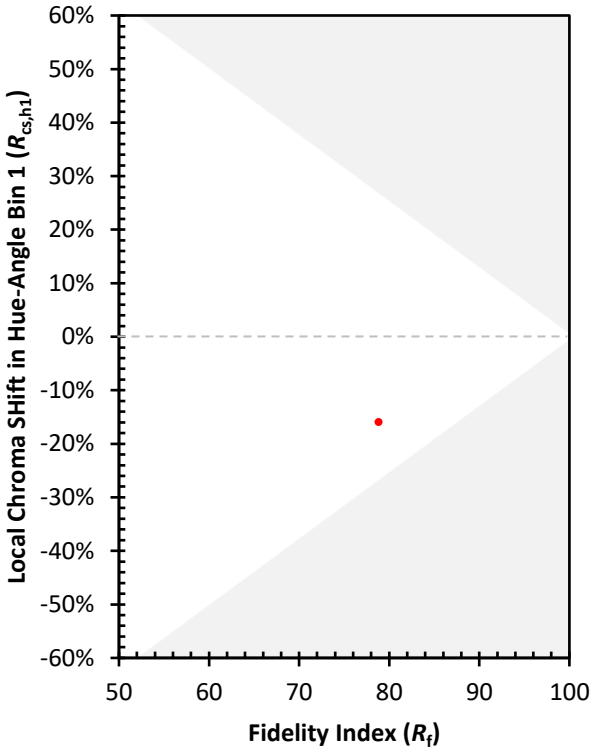


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Measure Comparisons





(END OF REPORT)