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: P1046590

Luminaire Tested: **FFX-CLB-70-722-U-FR-T3-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:	P1046590
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-U-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8256.6 lumens
Efficiency:	N/A
Efficacy:	116.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

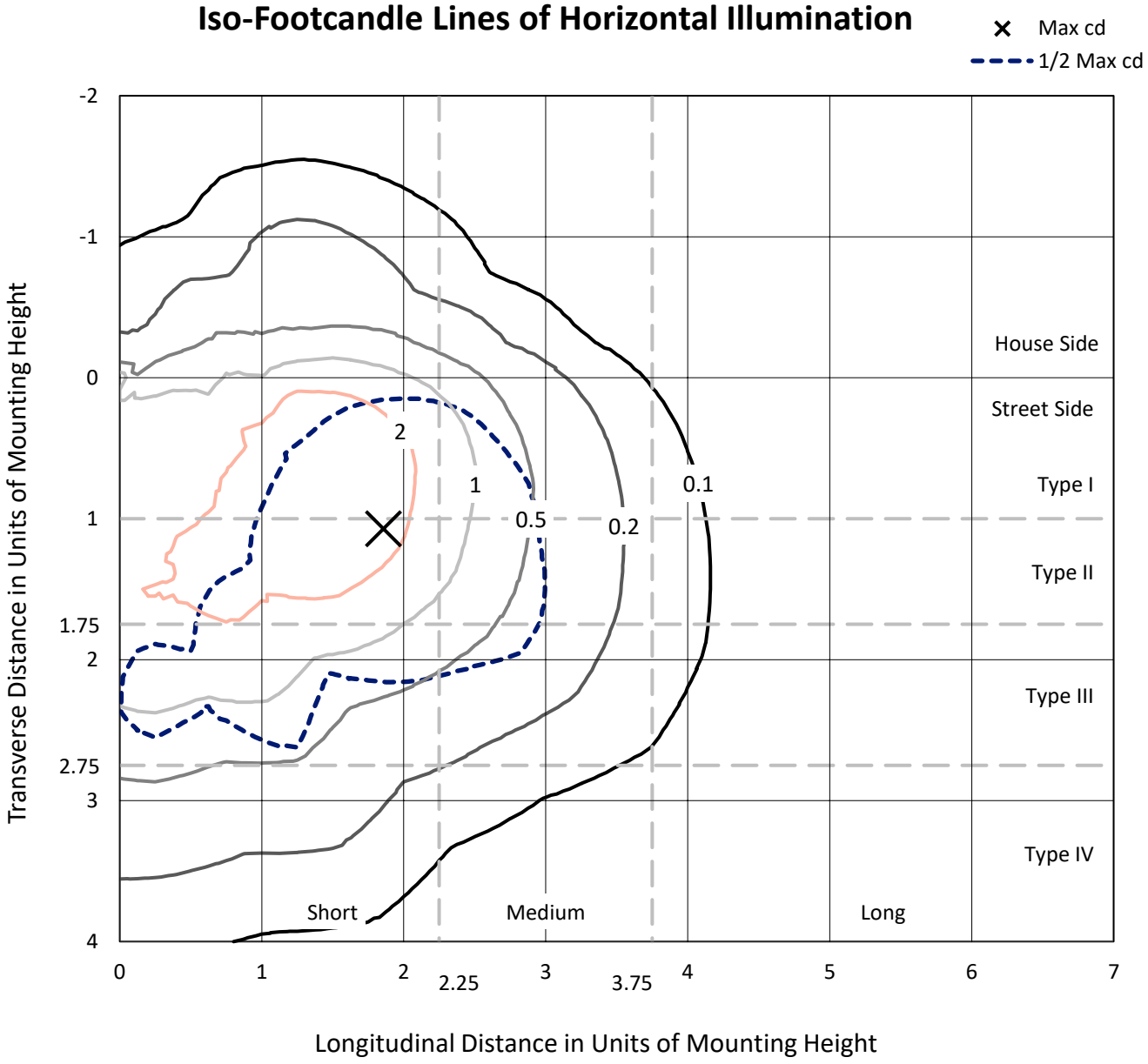


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Iso-Footcandle Lines of Horizontal Illumination



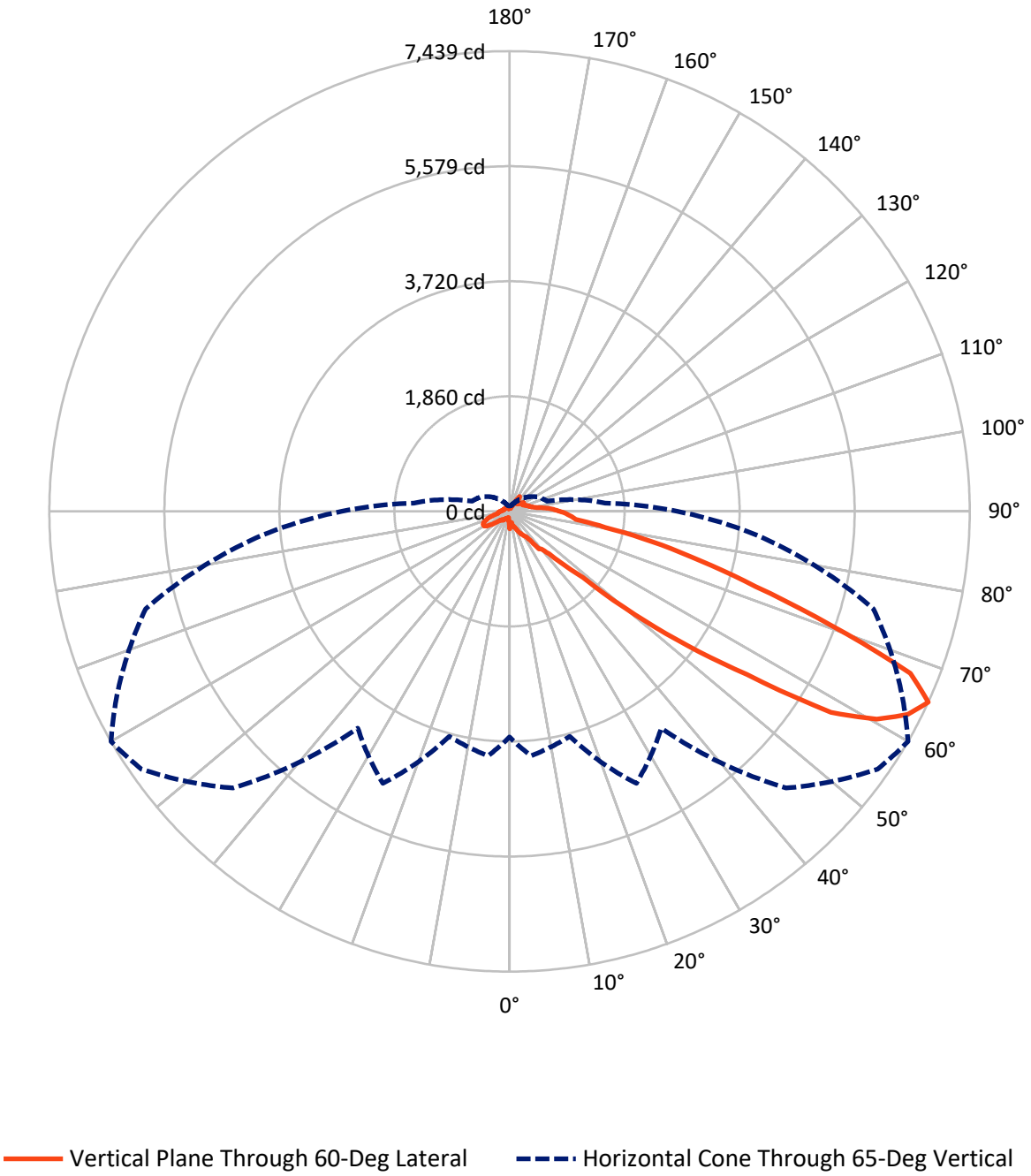
Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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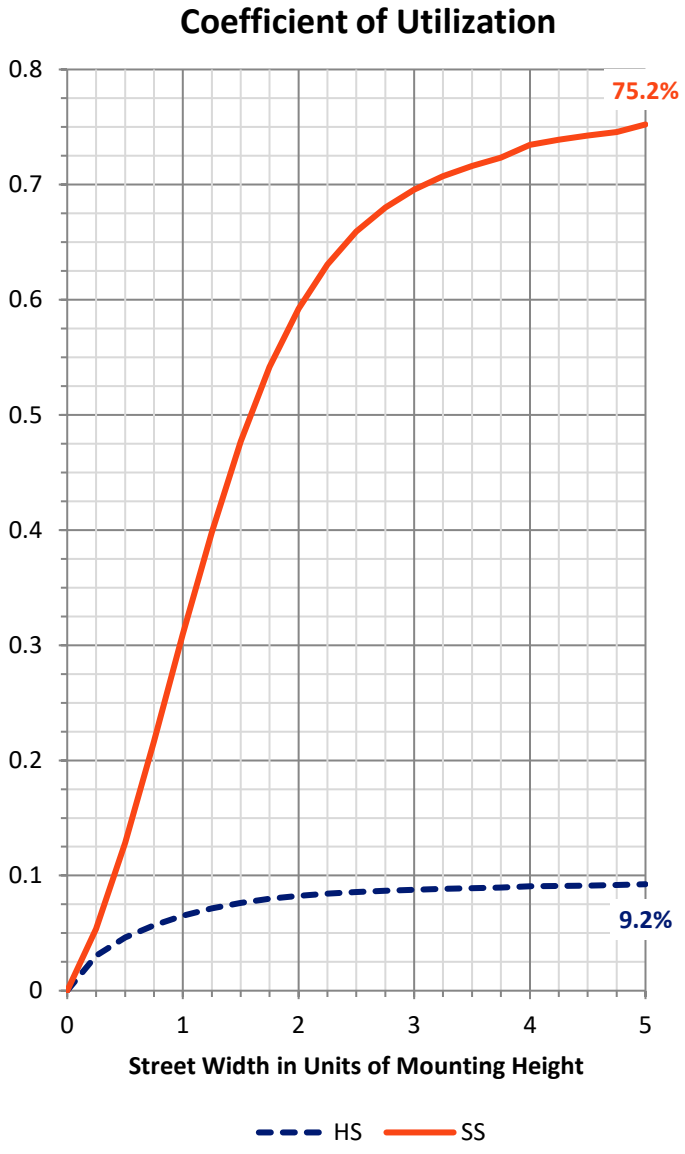
REPORT NUMBER: P1046590
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	800.5	258.4	1058.9
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	6434.0	763.7	7197.7
	% Fixture	77.9	9.2	87.2
Total	Lumens	7234.5	1022.1	8256.6
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.2	0.2
10°-20°	52.8	0.6
20°-30°	113.0	1.4
30°-40°	231.9	2.8
40°-50°	543.3	6.6
50°-60°	1699.6	20.6
60°-70°	2661.2	32.2
70°-80°	1407.8	17.1
80°-90°	509.7	6.2
90°-100°	307.4	3.7
100°-110°	192.6	2.3
110°-120°	155.6	1.9
120°-130°	129.8	1.6
130°-140°	94.5	1.1
140°-150°	86.9	1.1
150°-160°	36.2	0.4
160°-170°	14.4	0.2
170°-180°	4.7	0.1
0°-90°	7234.5	87.6
0°-180°	8256.6	100.0



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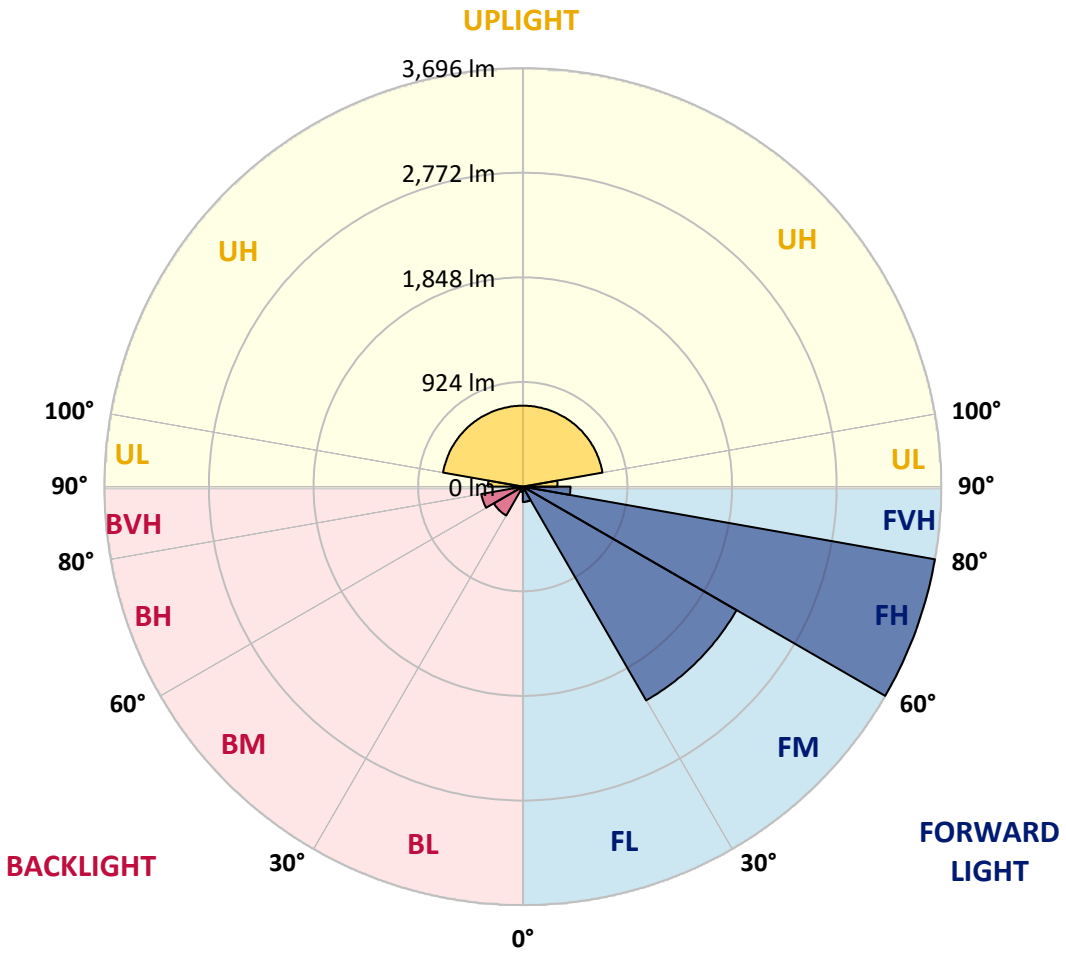
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	136.1	1.6			
FM	(30°-60°)	2180.4	26.4			
FH	(60°-80°)	3696.3	44.8			G2/5000
FVH	(80°-90°)	421.2	5.1			G3/500
BL	(0°-30°)	44.9	0.5	B0/110		
BM	(30°-60°)	294.4	3.6	B1/1000		
BH	(60°-80°)	372.7	4.5	B1/500		G1/500
BVH	(80°-90°)	88.5	1.1			G1/100
UL	(90°-100°)	307.4	3.7		U3/500	
UH	(100°-180°)	714.7	8.7		U4/1000	

BUG Rating: B1-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6
2.5°	154.6	160.6	195.7	231.9	242.2	219.8	190.2	193.8	210.1	288.0	322.5
5°	181.2	183.0	180.0	184.2	209.5	241.5	222.8	201.1	172.1	124.4	123.2
7.5°	208.3	208.3	207.1	192.0	174.5	169.1	185.4	188.4	185.4	154.6	133.5
10°	227.1	227.1	226.5	227.7	228.9	222.8	196.3	186.0	175.1	161.8	155.8
12.5°	275.4	276.6	284.4	280.2	264.5	248.2	251.2	248.2	231.9	203.5	180.0
15°	337.0	339.4	340.6	324.9	299.5	269.3	250.0	245.2	242.2	225.8	202.3
17.5°	369.0	367.8	353.3	337.0	320.7	298.9	280.8	273.6	262.7	242.2	216.8
20°	365.3	365.3	350.9	347.2	348.4	335.1	312.2	303.1	291.1	271.7	236.7
22.5°	375.6	376.2	367.2	370.2	383.5	370.2	347.8	341.8	330.3	302.5	266.9
25°	414.9	414.9	404.6	400.4	411.8	407.0	394.3	387.1	370.8	337.0	274.2
27.5°	450.5	448.1	438.4	439.6	428.8	426.3	423.3	420.3	405.8	352.1	277.8
30°	478.3	478.3	469.8	475.2	452.3	455.9	445.1	453.5	434.8	372.6	291.7
32.5°	503.6	507.3	504.2	511.5	484.3	500.0	481.3	490.3	478.9	409.4	330.9
35°	562.2	566.4	580.3	598.4	565.2	581.5	551.9	564.6	553.1	492.8	406.4
37.5°	794.7	788.1	757.9	728.3	696.3	763.3	756.0	768.1	750.0	652.8	513.3
40°	799.5	795.9	789.9	771.1	710.8	777.2	780.2	801.9	856.3	700.5	555.0
42.5°	820.1	824.3	896.1	905.2	859.9	963.2	934.8	936.0	1122.0	829.7	716.2
45°	948.7	948.7	971.6	983.1	969.8	1266.3	1262.1	1225.9	1460.2	1035.0	842.4
47.5°	1087.6	1091.8	1134.1	1247.6	1321.9	1602.7	1686.0	1599.1	1906.4	1358.1	1160.6
50°	1494.0	1502.4	1634.1	1733.7	1873.2	2346.0	2756.1	2623.8	3106.3	2071.9	1748.8
52.5°	1788.1	1893.1	1965.6	2340.6	2395.0	3121.4	3650.4	3605.1	3928.8	2867.8	2122.6
55°	2128.1	2291.7	2340.0	2921.5	3018.8	4027.8	4576.8	4657.1	4677.0	3707.2	2495.2
57.5°	2687.8	2941.5	2950.5	3565.3	3582.2	5077.4	5951.2	6128.1	5926.4	4684.2	3082.8
60°	3149.2	3446.3	3346.7	4183.6	4015.8	5926.4	6619.7	6820.1	6445.7	5519.4	3493.4
62.5°	3434.8	3721.7	3590.6	4618.4	4276.6	6290.6	7018.8	7224.7	6812.9	5963.3	3809.2
65°	3648.0	3966.2	3764.5	4850.3	4276.0	6323.2	7265.2	7439.1	6998.3	6090.7	3902.2
67.5°	3652.2	3937.9	3686.0	4767.6	3991.6	5806.8	6880.5	6990.4	6501.3	5638.4	3625.7
70°	3192.7	3398.0	3118.4	4023.6	3219.9	4407.1	5373.3	5503.7	5011.5	4334.6	2809.2
72.5°	2671.5	2751.9	2474.7	3218.0	2521.8	3335.2	4107.5	4156.5	3896.2	3247.0	2171.5
75°	2097.9	2067.1	1923.3	2399.2	1917.3	2363.0	3225.9	3178.8	3035.7	2389.5	1657.0
77.5°	1399.8	1342.4	1349.7	1646.2	1339.4	1563.4	2349.1	2350.9	2300.8	1771.8	1181.8
80°	853.9	855.7	832.1	1044.1	884.1	1039.3	1619.0	1565.8	1567.1	1168.5	827.3
82.5°	667.9	678.8	649.2	752.4	696.3	826.7	1058.0	1087.6	1055.6	858.1	609.3
85°	655.8	665.5	634.7	698.7	661.8	789.9	995.2	992.8	975.9	795.9	576.1
87.5°	600.9	612.3	589.4	634.1	605.7	731.3	916.1	904.0	887.7	748.8	549.5
90°	507.3	528.4	512.7	568.2	529.0	629.2	796.5	791.7	783.2	661.8	489.1
92.5°	461.4	465.6	454.1	504.2	460.8	551.3	707.1	692.0	673.3	574.3	416.7
95°	413.0	411.2	400.4	440.8	402.2	461.4	600.9	577.9	568.2	484.9	347.8
97.5°	330.9	331.5	326.1	353.9	326.1	368.4	451.1	442.6	423.3	362.3	266.3
100°	289.9	291.7	288.0	309.8	286.2	313.4	375.6	373.8	358.1	309.2	232.5
102.5°	274.2	274.8	279.6	292.9	270.5	290.5	342.4	343.0	332.7	288.0	218.6
105°	263.3	262.7	266.3	277.2	257.9	272.3	320.1	320.1	305.6	271.7	207.1
107.5°	254.8	253.6	259.7	268.7	255.4	259.7	296.5	298.9	285.0	253.0	196.9
110°	245.2	244.6	254.8	261.5	248.8	249.4	281.4	279.6	266.9	246.4	193.8

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REPORT NUMBER: P1046590
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	248.8	252.4	263.9	245.2	226.5	227.7	252.4	*255.4*	246.4	225.2	184.2
115°	245.8	249.4	264.5	237.9	210.1	217.4	237.9	*240.3*	227.1	209.5	173.3
117.5°	234.9	236.1	245.2	238.5	209.5	218.0	228.3	*232.5*	222.8	209.5	175.1
120°	277.8	268.7	268.7	258.5	225.8	240.9	260.3	*263.9*	254.8	230.1	174.5
122.5°	255.4	252.4	253.0	239.7	223.4	236.1	259.1	*265.1*	257.3	232.5	174.5
125°	201.1	201.7	198.7	202.9	196.3	200.5	212.6	*222.2*	215.0	201.7	166.1
127.5°	183.0	182.4	178.7	196.9	176.3	184.8	196.3	*201.7*	194.4	179.4	150.4
130°	178.1	178.1	188.4	207.1	195.1	191.4	187.2	*192.6*	191.4	181.8	150.4
132.5°	166.7	167.3	182.4	206.5	201.7	184.8	169.7	*172.7*	178.1	180.6	158.8
135°	166.7	164.9	160.0	165.5	162.4	166.7	162.4	*166.7*	167.9	166.7	138.9
137.5°	177.5	176.3	164.3	157.0	157.6	170.9	171.5	*173.3*	171.5	161.8	134.7
140°	173.9	169.7	161.2	158.2	158.8	172.7	178.1	*179.4*	177.5	158.8	126.8
142.5°	167.9	167.9	170.3	173.9	179.4	244.0	227.1	*242.8*	243.4	224.0	130.4
145°	240.9	243.4	236.1	228.3	247.6	293.5	276.0	*292.9*	304.4	283.2	180.0
147.5°	217.4	221.0	216.8	210.1	235.5	236.1	225.2	*227.1*	230.1	234.9	181.8
150°	154.0	149.8	156.4	151.6	176.9	175.7	160.6	*164.3*	170.9	171.5	144.9
152.5°	114.1	112.3	111.1	110.5	127.4	117.2	111.7	*109.9*	111.1	110.5	103.9
155°	100.8	100.8	100.2	103.3	112.3	105.1	99.6	*100.2*	97.2	95.4	91.8
157.5°	78.5	76.7	78.5	83.9	87.6	80.9	79.1	*77.9*	77.3	74.3	75.5
160°	64.6	64.6	65.8	70.0	72.5	67.6	64.0	*62.8*	62.8	61.6	65.8
162.5°	55.0	55.0	56.2	57.4	58.6	56.2	55.0	*55.0*	54.3	54.3	58.6
165°	45.9	45.9	46.5	48.9	49.5	48.3	47.7	*48.3*	48.3	50.7	54.3
167.5°	42.3	42.3	42.9	44.1	44.7	44.1	45.9	*47.7*	49.5	51.9	53.1
170°	40.5	40.5	41.1	41.7	42.9	44.1	47.7	*48.9*	49.5	48.9	48.9
172.5°	41.7	41.7	41.7	42.9	44.1	47.1	50.1	*50.1*	48.9	47.7	47.7
175°	42.3	41.7	42.3	43.5	45.3	47.1	48.3	*49.5*	49.5	48.9	48.9
177.5°	41.7	41.7	42.3	42.9	42.9	42.9	43.5	*44.1*	44.1	44.7	45.3
180°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	*41.1*	41.1	41.1	41.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6
2.5°	315.8	298.3	221.0	146.7	180.0	262.7	306.2	286.8	213.8	123.2	104.5
5°	129.2	144.9	169.1	161.8	145.5	119.6	90.0	89.4	123.8	150.4	152.8
7.5°	124.4	114.1	108.1	119.6	111.7	77.3	65.2	54.3	58.0	85.1	81.5
10°	153.4	149.8	139.5	114.1	83.9	69.4	65.2	66.4	71.3	64.0	63.4
12.5°	170.9	161.8	139.5	132.2	112.3	79.7	65.8	61.0	65.2	81.5	88.2
15°	187.2	173.9	146.1	122.6	100.8	82.7	70.7	61.6	55.0	47.7	47.1
17.5°	201.7	184.8	154.0	127.4	100.2	82.7	68.2	53.7	46.5	44.1	44.1
20°	219.2	203.5	164.3	132.9	100.8	80.9	65.8	53.1	46.5	44.1	44.1
22.5°	242.8	216.8	175.1	135.3	102.1	80.3	64.6	54.3	48.3	44.7	44.7
25°	249.4	229.5	182.4	143.1	106.9	83.3	67.6	56.2	49.5	46.5	45.9
27.5°	254.2	239.1	196.3	149.8	112.3	89.4	72.5	58.6	50.7	47.7	47.1
30°	273.0	259.7	211.4	159.4	119.6	95.4	76.7	62.2	53.1	48.3	47.1
32.5°	312.8	294.1	233.7	169.1	128.6	102.1	82.1	65.8	55.6	49.5	48.3
35°	388.9	373.8	292.9	189.0	138.3	110.5	88.8	70.7	58.6	51.3	50.7
37.5°	477.1	453.5	355.7	219.8	144.9	117.8	95.4	75.5	61.6	54.3	53.1
40°	492.2	425.1	315.2	200.5	146.1	121.4	101.5	80.9	65.2	56.8	55.0
42.5°	617.2	521.7	365.3	207.1	149.2	121.4	102.7	84.5	68.8	58.6	57.4
45°	652.8	519.9	363.5	231.3	163.6	125.0	103.3	86.4	71.9	61.6	59.8
47.5°	832.1	637.7	369.0	245.8	178.7	137.7	107.5	87.6	72.5	63.4	62.8
50°	1189.6	852.7	443.8	296.5	214.4	160.6	120.8	91.8	73.7	65.2	64.6
52.5°	1469.2	1012.7	476.5	355.1	273.0	204.1	144.3	102.7	76.1	65.8	64.6
55°	1746.4	1207.7	536.8	419.1	324.9	245.8	179.4	120.2	82.1	67.0	65.8
57.5°	2169.1	1449.9	611.7	481.9	385.3	285.0	200.5	135.9	89.4	68.2	66.4
60°	2425.8	1535.7	619.6	513.9	419.7	312.8	207.7	141.9	98.4	73.1	70.0
62.5°	2656.4	1612.9	625.0	528.4	425.7	315.8	208.3	137.1	100.2	80.3	76.7
65°	*2716.2*	*1550.1*	*630.4*	*533.2*	*414.9*	*298.3*	*200.5*	*132.2*	*95.4*	*87.0*	*86.4*
67.5°	2581.0	1390.1	593.0	515.1	385.9	268.1	180.6	125.6	93.0	84.5	86.4
70°	2010.9	1103.9	543.5	474.6	333.3	226.5	160.6	117.2	91.8	80.3	78.5
72.5°	1584.6	939.0	548.9	452.3	281.4	200.5	141.9	106.9	87.0	78.5	77.3
75°	1234.3	786.8	528.4	389.5	228.3	170.9	124.4	95.4	80.9	75.5	74.9
77.5°	905.2	624.4	436.0	300.1	188.4	142.5	108.7	87.6	76.7	71.9	71.3
80°	593.6	441.4	303.7	239.7	162.4	128.6	99.0	82.1	73.7	69.4	68.8
82.5°	504.8	391.9	269.9	220.4	150.4	123.8	97.2	80.3	73.1	68.2	67.6
85°	486.7	401.6	276.0	228.3	143.1	118.4	94.2	79.1	71.3	67.0	66.4
87.5°	457.1	363.5	266.9	204.7	132.2	108.1	88.2	76.1	68.2	64.6	63.4
90°	407.0	311.0	229.5	175.7	125.6	101.5	83.3	72.5	66.4	62.8	61.6
92.5°	328.5	236.1	180.6	155.2	122.6	100.8	82.7	72.5	66.4	62.8	61.6
95°	276.0	202.3	161.8	141.9	114.1	95.4	79.1	70.0	64.6	61.0	61.0
97.5°	218.6	169.1	144.3	127.4	102.7	87.0	74.9	67.0	62.2	58.6	58.6
100°	193.8	157.0	137.1	119.6	97.2	82.1	73.1	65.2	61.0	56.8	56.8
102.5°	184.2	152.2	135.3	113.5	93.0	79.1	70.0	62.8	59.2	55.0	55.0
105°	178.1	150.4	134.1	110.5	88.8	75.5	67.0	59.8	56.8	53.7	53.1
107.5°	172.1	147.9	135.9	108.7	85.1	73.1	67.0	59.2	55.6	53.1	53.1
110°	169.1	149.2	135.3	106.9	83.9	72.5	66.4	59.8	56.8	54.3	53.7

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

Scaled Data Report

REPORT NUMBER: P1046590
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	161.2	142.5	129.2	101.5	82.1	70.7	64.0	59.2	55.0	52.5	51.9
115°	153.4	131.0	118.4	96.6	77.9	68.2	62.2	57.4	53.1	51.3	51.3
117.5°	156.4	128.0	108.7	94.8	76.7	66.4	61.0	56.2	52.5	51.3	50.7
120°	154.6	134.7	122.0	101.5	76.1	64.6	59.8	55.0	51.9	51.3	51.3
122.5°	147.9	145.5	134.1	103.3	73.7	65.2	61.0	56.8	53.7	51.9	51.9
125°	142.5	141.3	125.0	93.0	75.5	67.6	64.0	59.8	58.0	56.2	55.6
127.5°	131.6	118.4	103.9	89.4	76.7	68.8	65.2	62.8	61.0	58.0	57.4
130°	132.2	121.4	106.9	90.0	73.7	67.6	65.8	63.4	60.4	55.6	55.0
132.5°	143.7	132.2	106.3	83.3	70.7	67.6	66.4	63.4	56.8	51.3	50.7
135°	119.6	111.7	94.2	79.7	71.9	70.0	69.4	62.8	53.1	49.5	48.9
137.5°	116.5	105.1	90.6	80.3	74.9	71.3	68.8	60.4	49.5	45.9	44.7
140°	109.9	99.0	88.8	81.5	72.5	60.4	55.0	50.7	45.9	42.9	42.3
142.5°	109.9	99.6	83.9	71.9	62.8	56.2	53.1	49.5	44.1	39.9	38.6
145°	129.8	117.8	101.5	91.2	81.5	71.3	61.0	50.1	41.1	35.6	35.0
147.5°	147.3	132.9	120.2	103.3	87.6	70.7	56.2	44.1	37.4	35.0	35.0
150°	120.8	107.5	100.8	86.4	72.5	58.0	47.7	41.1	37.4	36.2	36.2
152.5°	90.6	76.1	71.3	63.4	55.0	47.7	42.9	39.3	38.0	37.4	37.4
155°	84.5	72.5	66.4	59.2	50.7	44.7	41.7	39.9	38.6	38.0	38.0
157.5°	73.7	67.0	59.2	53.7	47.7	43.5	41.7	40.5	39.3	38.6	38.6
160°	65.8	61.0	53.7	49.5	45.3	43.5	43.5	42.9	41.1	40.5	40.5
162.5°	59.2	57.4	50.7	47.1	45.3	45.9	48.9	48.3	45.3	42.9	42.3
165°	55.0	53.1	48.3	46.5	45.3	47.7	53.7	52.5	47.7	44.7	44.7
167.5°	52.5	51.3	47.7	45.9	46.5	51.3	56.8	57.4	53.1	48.9	48.3
170°	48.3	48.3	47.7	48.3	48.3	50.7	53.7	55.6	55.6	56.8	56.2
172.5°	47.7	48.3	50.1	50.1	49.5	50.1	52.5	55.6	57.4	59.2	59.8
175°	48.9	49.5	50.7	51.3	51.3	52.5	56.2	58.6	59.8	59.2	59.2
177.5°	45.3	45.9	46.5	48.9	50.1	51.3	55.0	56.2	57.4	58.6	58.6
180°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1

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

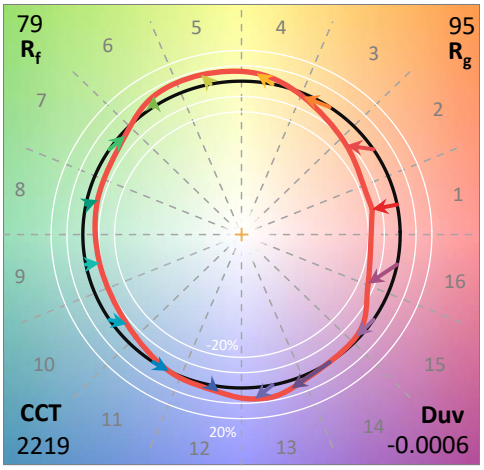
Test Information

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

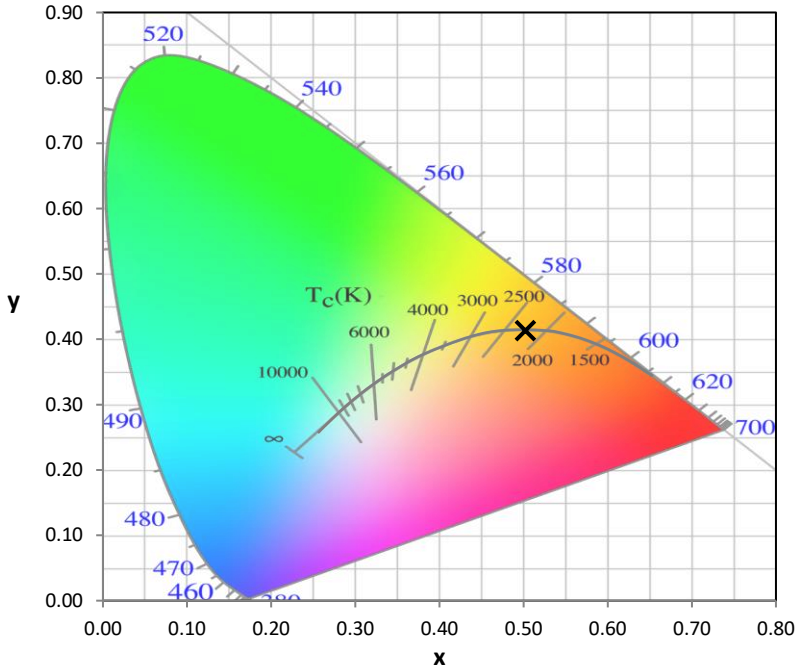
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

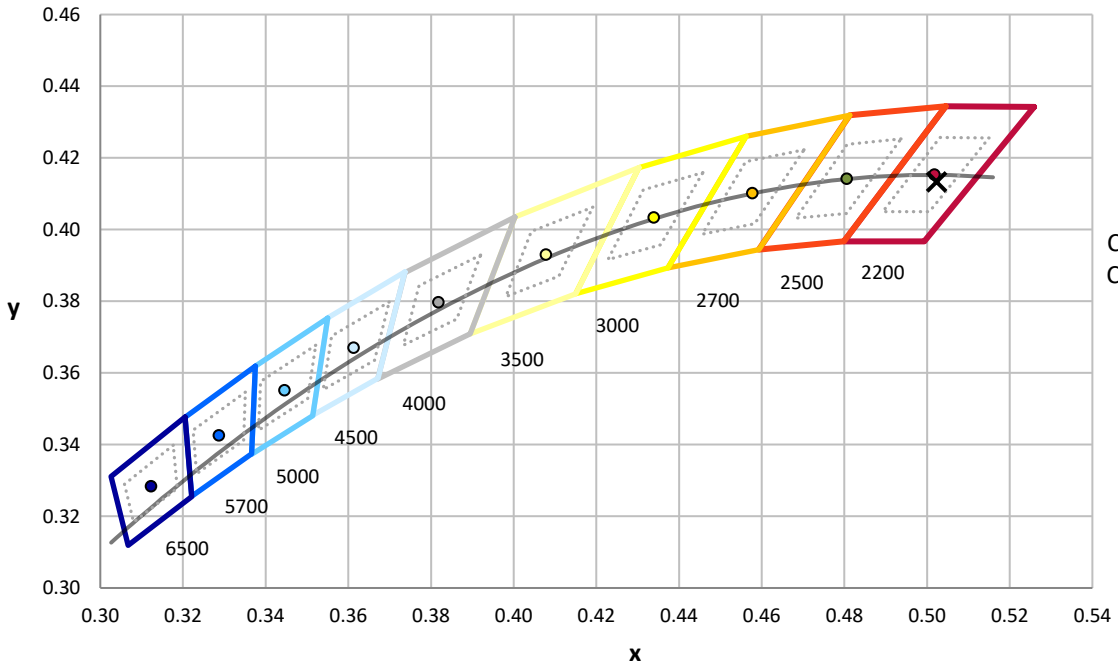
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

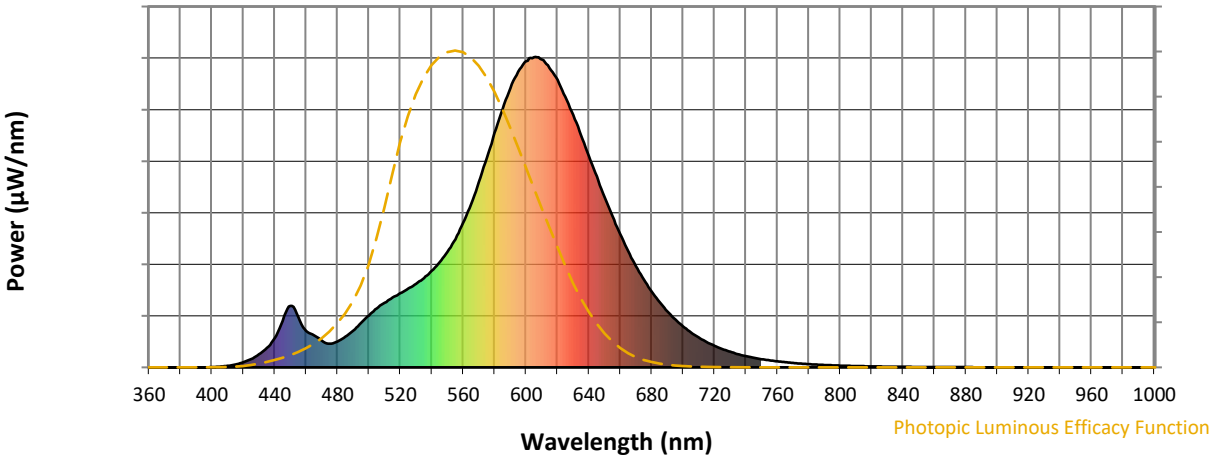


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

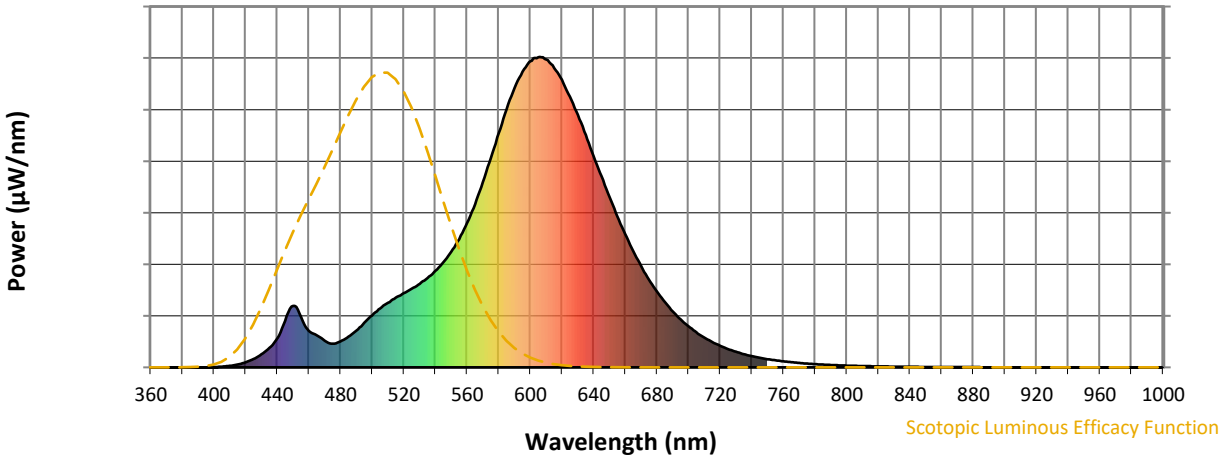


Photopic Lumens: NR

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

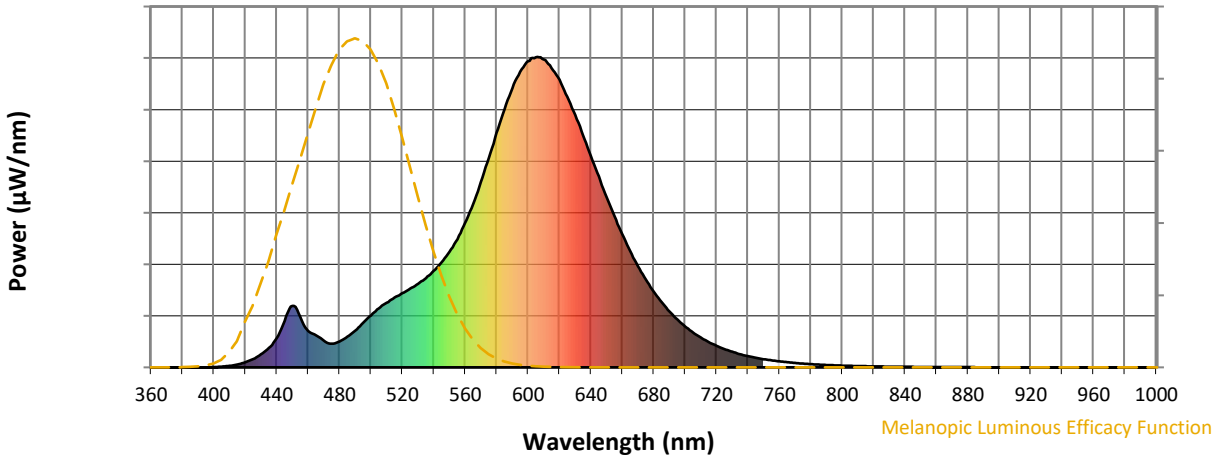


Scotopic Lumens: NR **S/P: 0.94**

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			

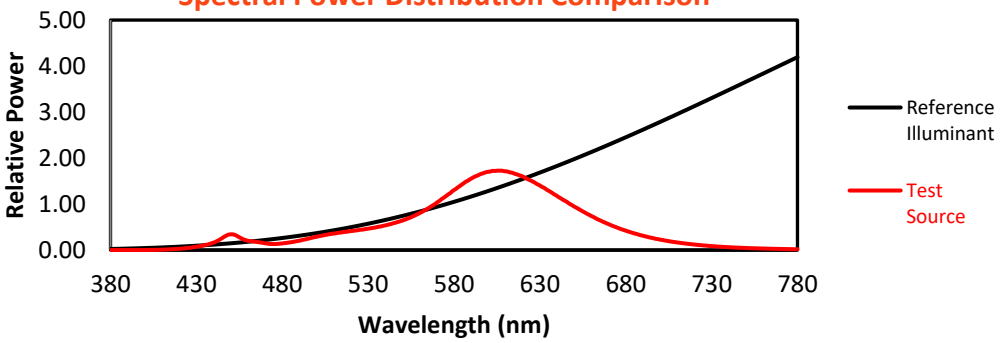
REPORT NUMBER: SP1-2501-332-2

TM-30-18

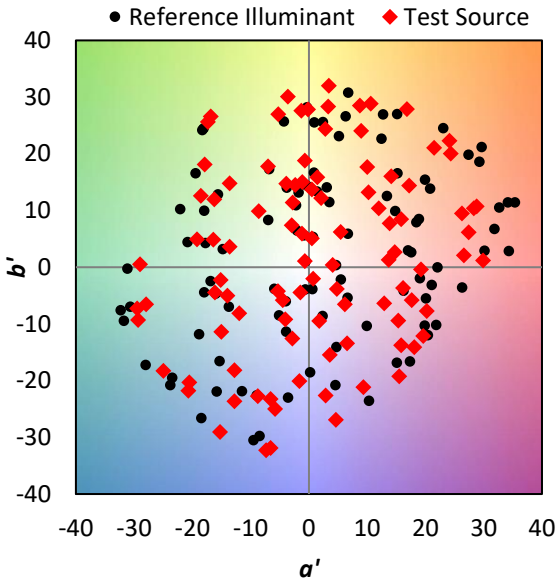
Summary

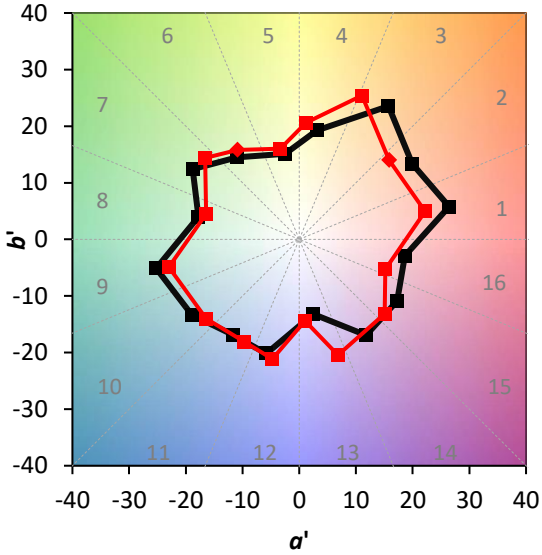
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

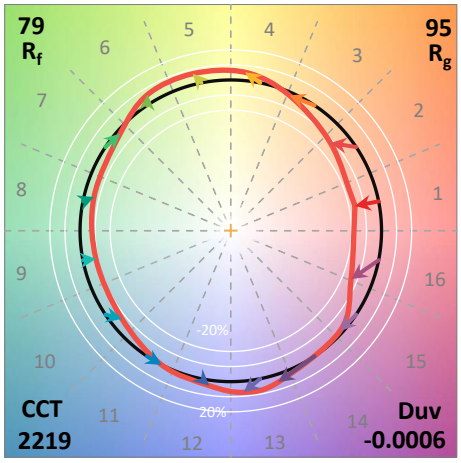
Spectral Power Distribution Comparison

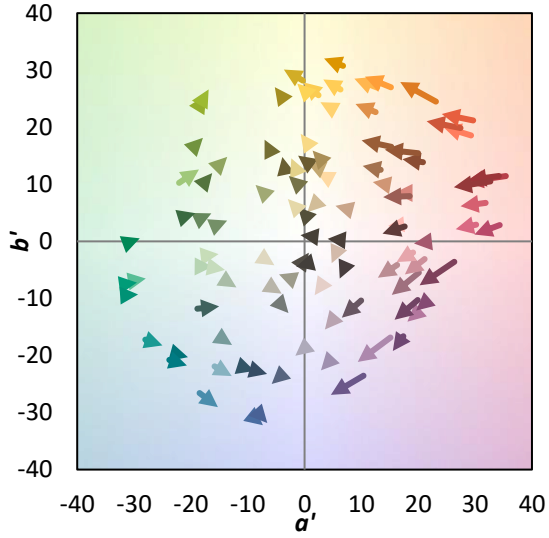


Color Vector Graphics







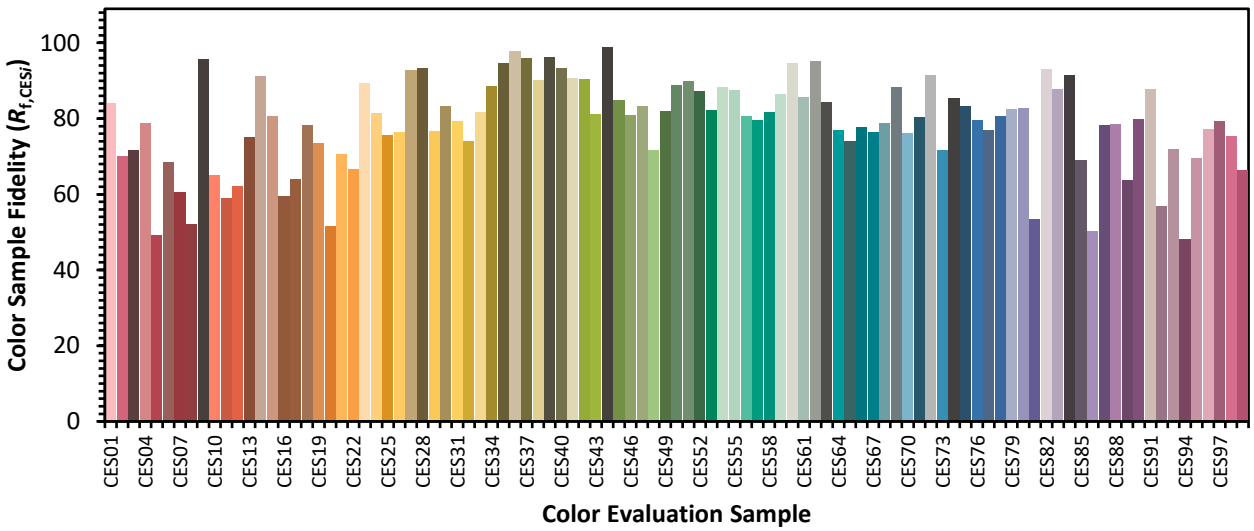


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

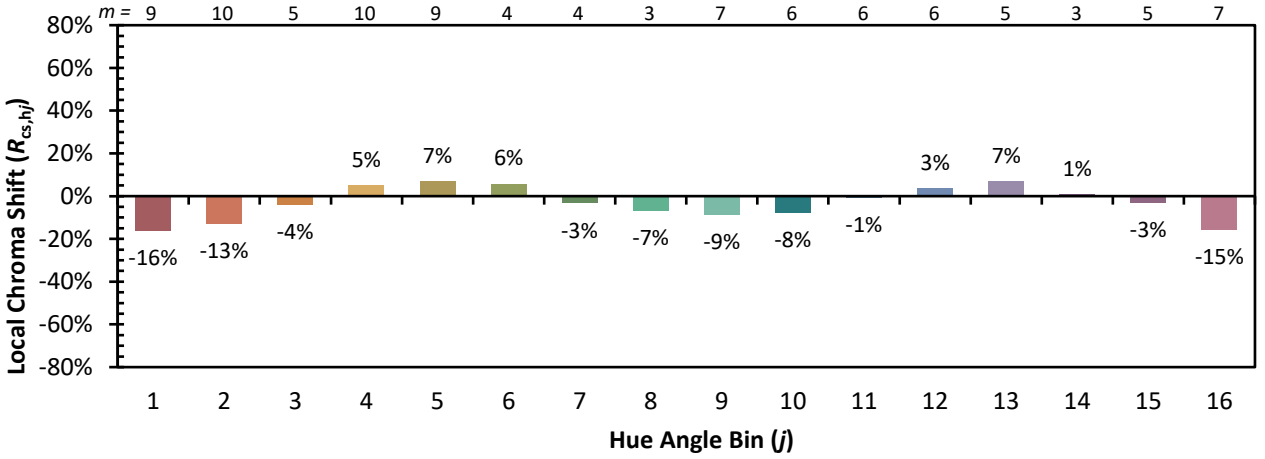
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

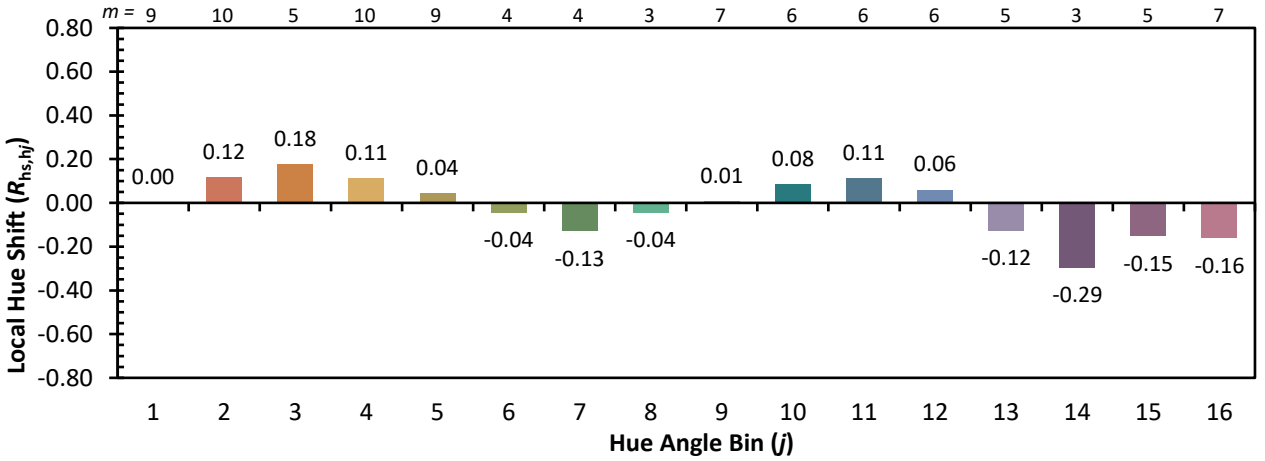


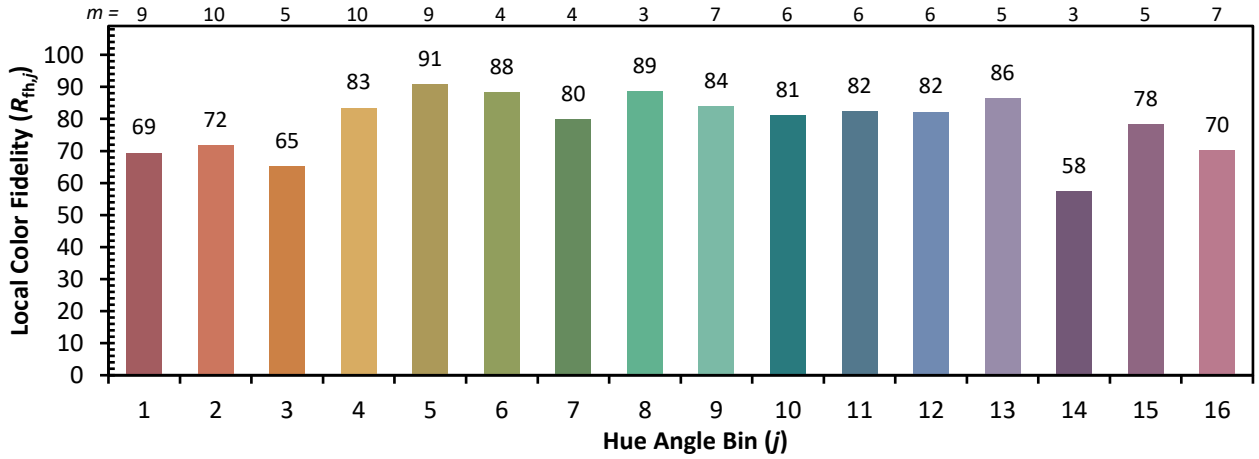
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Color Rendition by Hue-Angle Bin



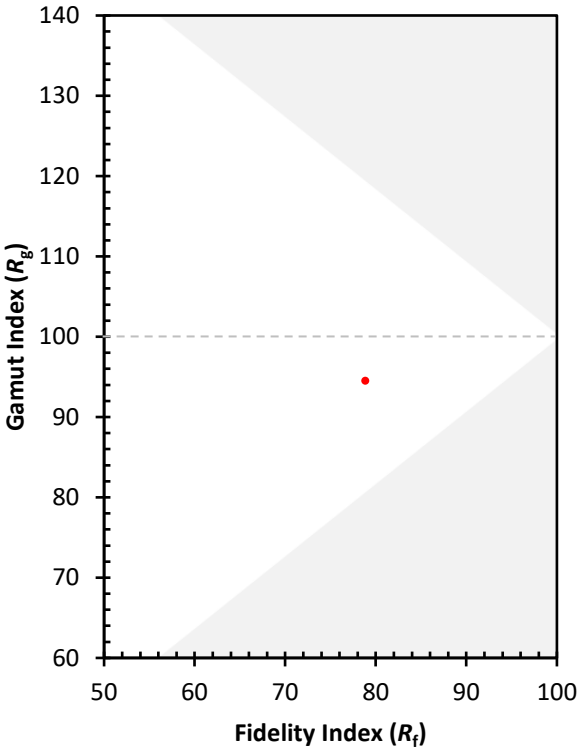


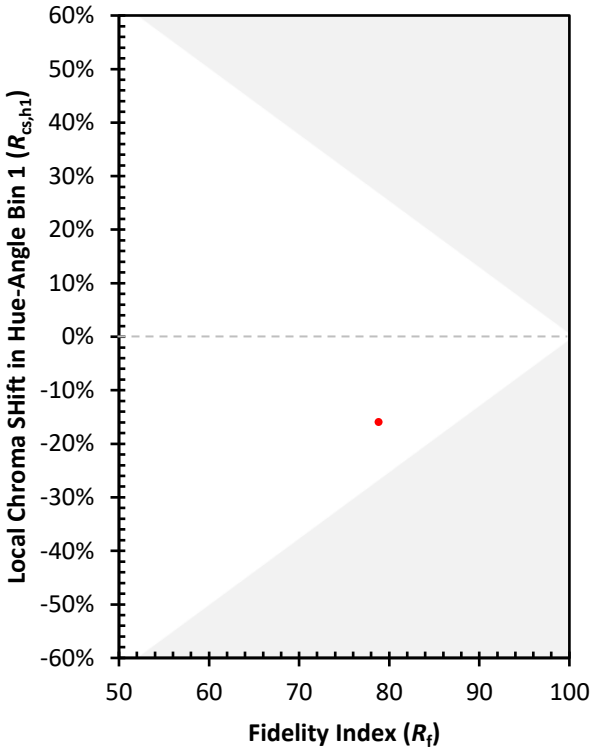


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Measure Comparisons





(END OF REPORT)