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: P1045874

Luminaire Tested: **FFX-CLB-30-722-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:	P1045874
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-722-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:	2792.8 lumens
Efficiency:	N/A
Efficacy:	91.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

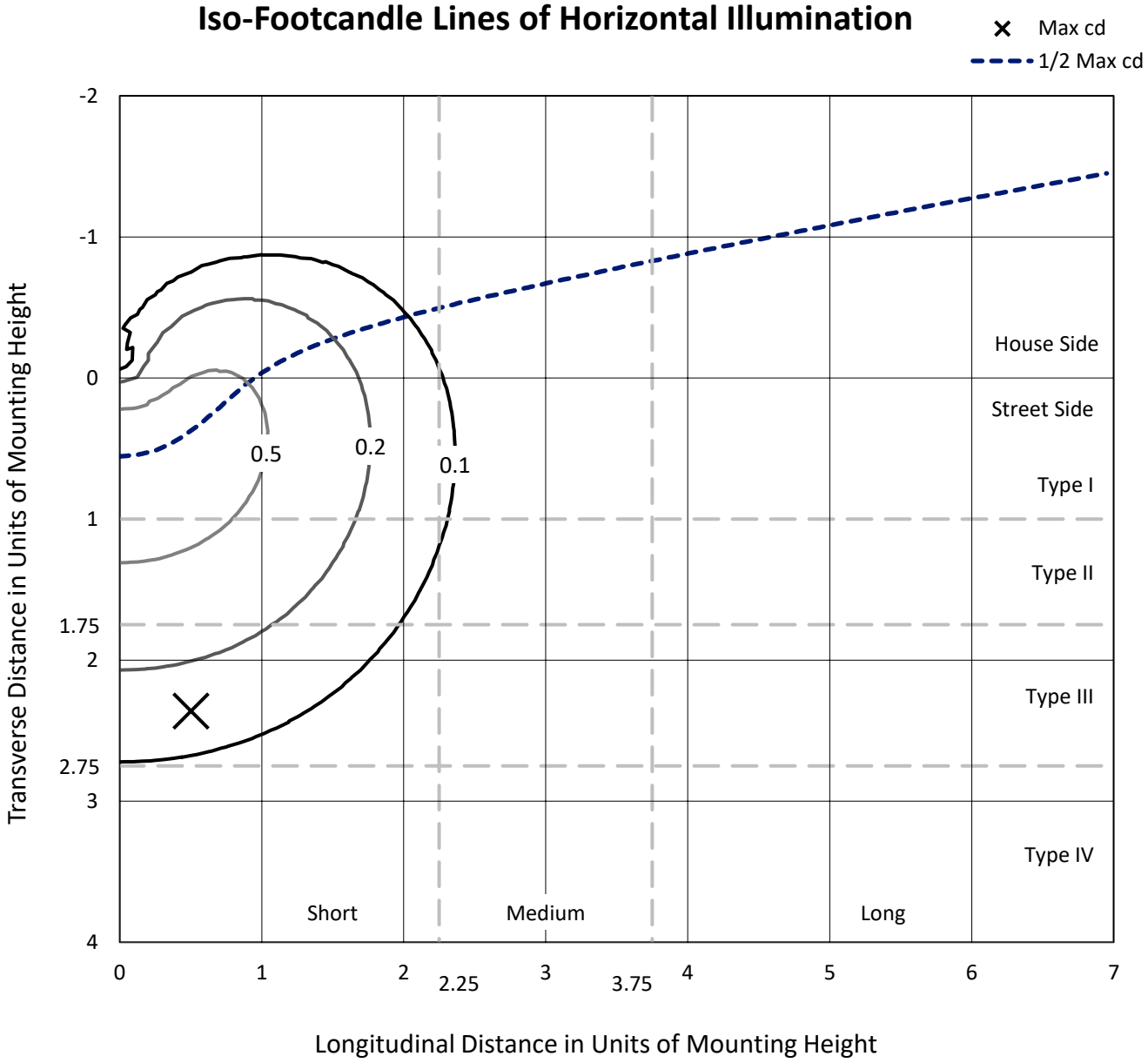


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Iso-Footcandle Lines of Horizontal Illumination



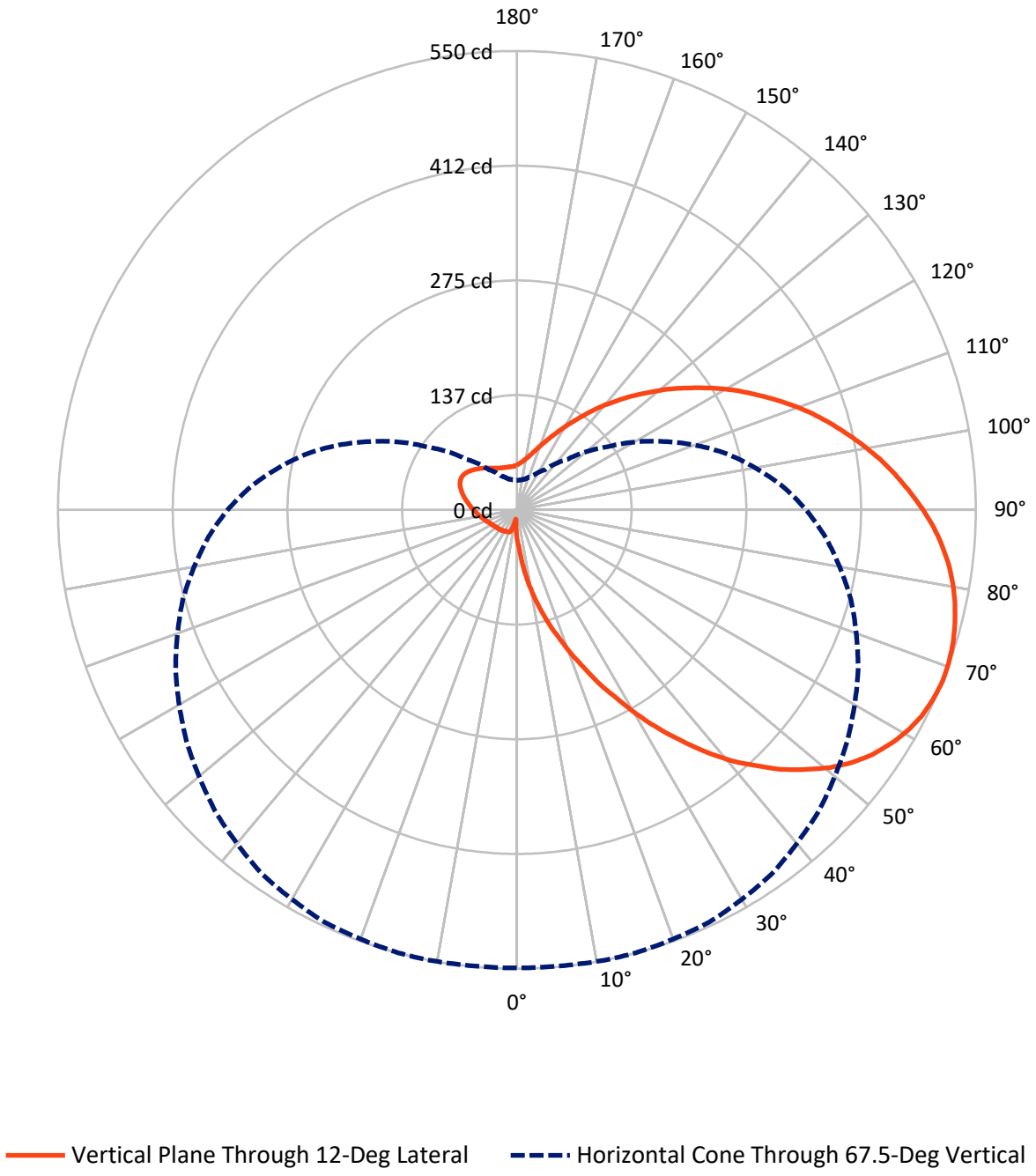
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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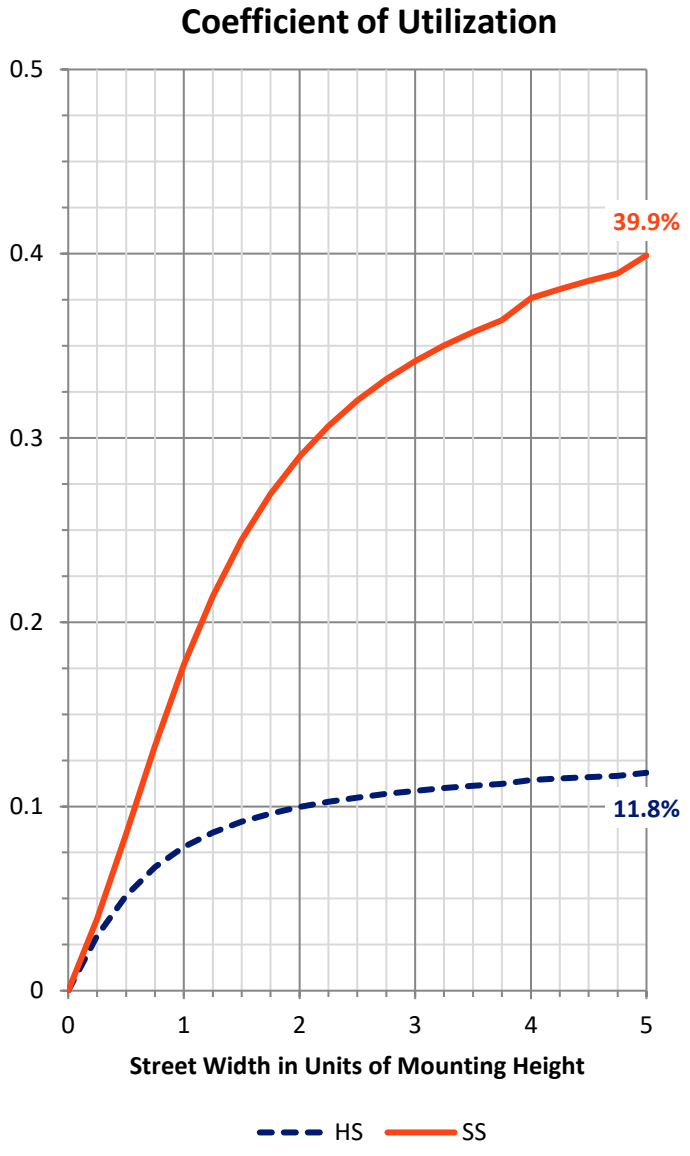
REPORT NUMBER: P1045874
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	359.4	347.9	707.2
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	1270.7	814.8	2085.5
	% Fixture	45.5	29.2	74.7
Total	Lumens	1630.1	1162.7	2792.8
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.2
10°-20°	24.9	0.9
20°-30°	64.8	2.3
30°-40°	125.8	4.5
40°-50°	197.5	7.1
50°-60°	262.2	9.4
60°-70°	305.5	10.9
70°-80°	324.6	11.6
80°-90°	320.5	11.5
90°-100°	295.5	10.6
100°-110°	257.9	9.2
110°-120°	212.0	7.6
120°-130°	160.5	5.7
130°-140°	109.6	3.9
140°-150°	67.2	2.4
150°-160°	36.9	1.3
160°-170°	17.8	0.6
170°-180°	5.3	0.2
0°-90°	1630.1	58.4
0°-180°	2792.8	100.0



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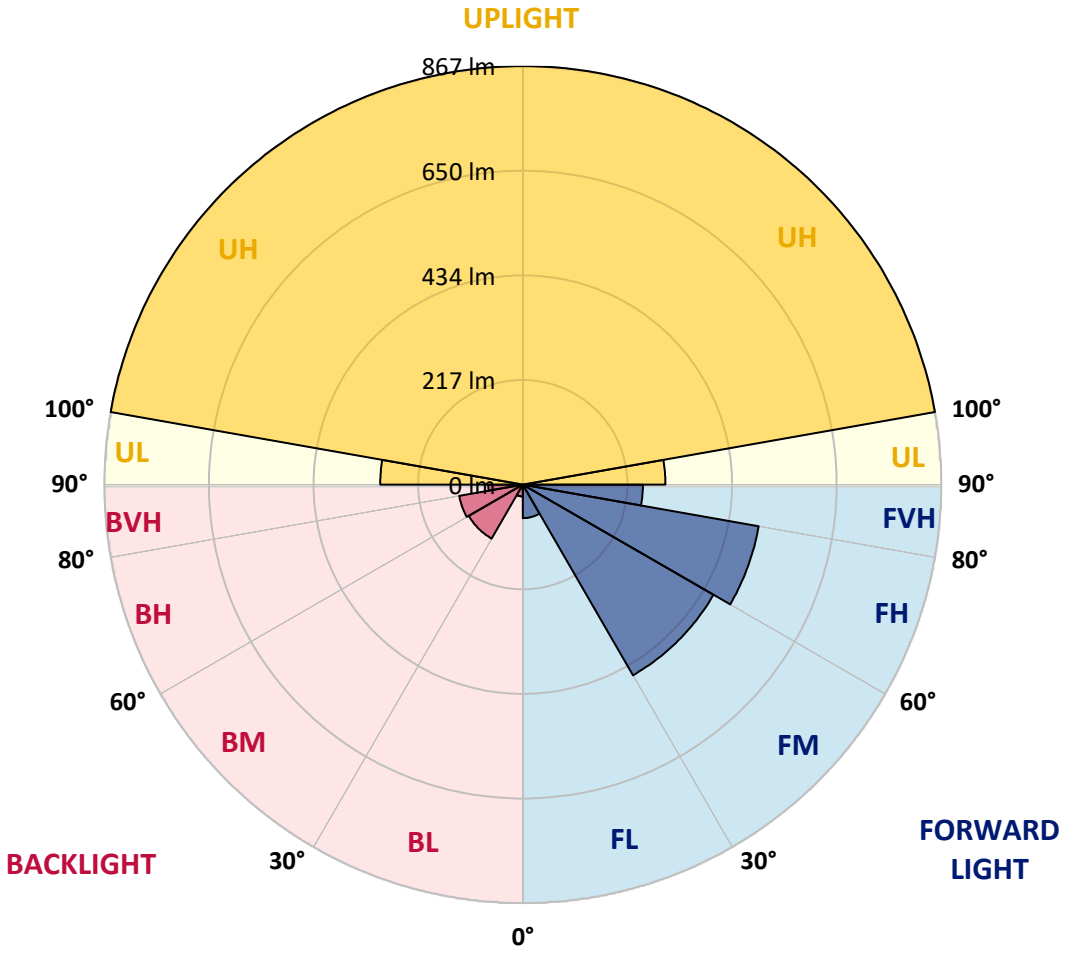
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	69.4	2.5			
FM	(30°-60°)	456.3	16.3			
FH	(60°-80°)	496.3	17.8			G0/660
FVH	(80°-90°)	248.8	8.9			G3/500
BL	(0°-30°)	24.6	0.9	B0/110		
BM	(30°-60°)	129.2	4.6	B0/220		
BH	(60°-80°)	133.8	4.8	B1/500		G1/500
BVH	(80°-90°)	71.7	2.6			G1/100
UL	(90°-100°)	295.5	10.6		U3/500	
UH	(100°-180°)	867.2	31.1		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
2.5°	44.2	45.2	44.2	45.5	44.9	44.9	43.3	41.8	39.6	37.2	35.0
5°	62.7	62.4	61.1	62.4	61.1	59.6	57.1	53.2	49.2	45.5	40.9
7.5°	81.7	82.0	81.1	80.8	78.0	75.9	71.9	67.9	63.0	57.5	51.9
10°	102.3	101.7	100.2	100.5	97.4	93.1	88.5	83.9	78.3	71.9	64.8
12.5°	121.4	121.4	120.1	120.4	117.1	112.1	108.5	102.3	95.5	87.9	79.3
15°	141.6	140.4	139.8	139.8	136.4	132.1	128.1	121.4	113.4	104.8	94.9
17.5°	160.4	160.1	159.5	159.8	156.7	153.0	146.6	139.8	130.3	119.8	109.7
20°	184.3	183.1	182.2	180.7	178.8	173.9	167.7	158.8	149.3	137.9	124.4
22.5°	206.2	207.7	205.2	204.0	201.5	197.6	188.6	180.0	168.7	155.5	140.7
25°	231.3	232.6	231.7	230.1	226.7	221.2	212.9	203.4	189.9	174.8	157.3
27.5°	257.8	258.7	256.2	256.8	251.0	245.8	237.5	225.8	212.9	195.1	176.7
30°	283.9	285.7	284.8	282.7	277.7	273.1	263.3	251.0	236.3	216.6	195.4
32.5°	314.6	312.5	312.8	310.3	307.2	299.9	291.3	277.4	260.2	239.3	215.1
35°	343.2	342.3	339.8	341.0	335.8	329.0	318.3	303.5	284.8	261.8	235.0
37.5°	368.7	369.6	368.1	367.1	363.8	356.1	343.5	328.4	306.9	282.7	253.5
40°	394.8	395.4	395.1	395.1	390.5	381.9	369.0	352.1	330.0	303.9	272.2
42.5°	419.7	420.3	418.8	419.1	415.4	406.5	392.6	374.8	350.2	322.9	288.5
45°	443.6	443.6	443.6	443.3	438.1	429.8	415.7	395.4	370.8	339.8	303.5
47.5°	465.8	465.2	464.8	464.8	461.5	451.6	436.6	414.5	387.7	355.2	318.3
50°	485.4	485.7	485.4	484.8	479.6	471.6	454.7	431.7	403.4	369.9	330.6
52.5°	502.3	502.6	502.9	501.4	498.0	488.5	469.8	445.2	416.6	381.6	340.7
55°	515.8	516.5	517.1	516.5	513.1	501.7	483.0	458.1	427.4	391.4	349.6
57.5°	528.4	528.1	528.4	527.8	524.1	513.1	493.7	467.0	436.0	399.4	356.4
60°	537.0	537.4	537.4	537.4	533.0	521.7	501.1	473.8	442.1	405.5	362.2
62.5°	542.9	543.2	544.1	543.5	539.5	527.5	506.3	478.7	446.7	409.5	366.2
65°	546.9	547.2	547.8	547.2	543.5	531.2	509.7	481.7	449.8	412.6	369.0
67.5°	548.7	548.7	549.6	549.3	545.0	532.4	510.9	483.0	451.0	414.1	370.8
70°	547.8	548.1	548.7	548.4	544.1	531.5	510.0	482.4	450.7	414.1	371.1
72.5°	545.6	545.6	546.3	545.6	541.7	529.1	507.9	480.5	449.2	413.5	370.8
75°	541.3	541.7	542.0	541.7	537.4	525.1	504.2	477.1	446.7	411.4	369.6
77.5°	536.1	536.4	536.4	536.4	531.8	519.5	499.3	472.8	443.3	408.9	367.5
80°	528.4	528.7	529.4	528.7	524.1	513.1	492.8	467.6	439.0	404.9	364.7
82.5°	519.8	519.5	520.5	520.1	515.5	504.5	484.5	460.5	432.6	400.3	360.7
85°	509.1	509.1	509.7	509.1	505.1	493.4	474.7	451.9	425.2	393.6	355.8
87.5°	497.1	497.1	497.7	496.5	491.9	481.7	463.9	441.8	417.2	386.8	350.2
90°	483.0	483.6	483.6	482.7	478.1	468.2	451.9	430.7	406.8	378.5	343.8
92.5°	469.5	469.5	468.8	468.8	463.9	454.1	439.0	419.7	397.3	370.2	336.7
95°	455.0	455.0	454.1	453.5	448.6	440.3	425.8	408.0	386.5	361.6	329.7
97.5°	439.7	439.3	438.7	438.1	433.2	425.2	412.3	395.1	375.4	351.8	322.0
100°	424.0	424.3	422.1	421.8	416.9	410.2	397.9	381.9	363.8	341.6	313.7
102.5°	406.8	407.4	405.5	405.2	400.3	393.0	383.1	368.7	352.4	332.1	305.4
105°	391.4	389.9	389.0	388.3	384.0	377.3	366.8	355.5	340.1	321.1	296.2
107.5°	373.9	374.2	372.4	371.1	366.8	361.3	352.1	341.6	328.1	310.0	287.3
110°	356.4	355.8	354.9	354.2	349.3	344.4	336.4	327.8	314.6	298.9	277.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	338.3	338.6	*337.0*	336.1	332.7	327.5	321.7	313.4	302.0	287.3	267.3
115°	321.4	320.8	*319.5*	318.9	315.2	311.2	305.4	299.2	289.1	275.0	256.8
117.5°	304.2	302.9	*302.6*	301.7	298.9	294.9	290.3	285.1	275.3	263.0	245.8
120°	286.3	286.3	*285.7*	285.1	281.4	278.0	275.3	269.8	261.5	249.8	235.0
122.5°	269.8	269.4	*268.2*	267.3	265.4	262.4	259.0	254.7	247.3	236.9	222.7
125°	251.6	252.2	*251.3*	251.0	247.9	246.4	243.3	240.6	232.9	223.4	210.8
127.5°	236.6	235.6	*235.6*	234.1	232.6	231.0	228.6	224.9	219.7	209.8	198.2
130°	220.6	220.0	*219.1*	219.1	217.2	215.1	213.5	210.5	204.6	196.6	185.6
132.5°	204.6	204.0	*203.4*	202.5	201.2	200.9	199.4	196.0	190.5	183.4	173.9
135°	189.6	189.3	*188.9*	188.9	187.1	186.2	184.3	181.6	177.9	171.4	162.2
137.5°	175.4	174.5	*173.9*	173.9	173.3	171.7	170.2	168.1	164.1	158.8	150.5
140°	160.7	161.3	*161.3*	161.0	159.8	158.8	157.0	155.2	151.2	146.9	139.8
142.5°	148.4	148.1	*147.5*	147.2	146.6	145.3	144.4	142.2	139.8	135.2	129.0
145°	135.2	135.2	*134.9*	135.2	134.0	133.6	132.4	130.6	127.8	123.8	118.6
147.5°	123.5	123.5	*123.2*	123.5	122.6	121.7	120.7	119.5	117.1	114.0	109.4
150°	112.8	113.1	*112.4*	112.4	112.1	111.2	110.6	108.8	106.9	104.5	100.5
152.5°	102.9	103.2	*102.9*	102.6	102.3	101.7	100.8	99.5	97.7	95.5	92.2
155°	94.6	94.3	*94.3*	94.3	94.0	93.1	93.1	91.2	89.4	87.9	84.5
157.5°	86.6	86.6	*86.6*	86.6	86.0	85.7	85.1	83.6	82.6	80.5	78.0
160°	80.2	79.9	*79.9*	79.9	79.3	79.0	78.0	77.4	76.2	74.4	72.5
162.5°	73.7	74.0	*74.0*	74.0	73.4	73.1	72.5	71.9	71.0	69.1	67.9
165°	68.8	68.8	*68.8*	68.5	68.2	68.2	67.3	67.0	66.1	64.8	63.9
167.5°	64.8	64.8	*64.5*	64.8	64.2	63.6	63.3	62.7	62.1	61.4	60.5
170°	61.4	61.4	*61.4*	61.4	61.1	60.8	60.2	59.9	59.3	58.7	57.8
172.5°	58.7	58.7	*58.7*	58.7	58.4	58.1	57.5	57.1	56.8	56.2	55.6
175°	56.5	56.5	*56.5*	56.5	56.2	55.9	55.3	55.3	55.0	54.7	54.1
177.5°	55.0	55.0	*54.7*	54.7	54.4	54.1	54.1	53.8	53.8	53.5	53.2
180°	53.2	53.2	*53.2*	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
2.5°	33.8	32.6	30.4	28.6	26.4	24.9	23.3	23.0	23.0	23.7	23.7
5°	39.0	36.3	32.0	28.0	23.3	20.0	16.9	14.1	12.3	11.4	11.4
7.5°	48.9	46.7	40.2	34.7	29.2	24.0	19.0	14.7	11.7	9.5	9.2
10°	61.4	58.1	50.4	43.3	35.9	29.5	23.7	18.4	14.7	12.9	12.9
12.5°	75.0	70.4	61.1	52.5	43.9	35.6	28.9	23.7	20.0	18.1	17.5
15°	89.4	84.2	73.1	62.1	51.6	42.7	35.0	28.6	24.9	23.0	22.7
17.5°	102.9	97.1	84.5	71.3	59.3	48.5	39.3	32.6	28.0	25.8	25.5
20°	117.7	110.0	95.2	79.9	65.7	52.8	42.4	34.4	28.9	26.4	26.1
22.5°	132.7	123.8	106.3	88.5	71.6	56.8	44.5	35.3	29.2	26.4	26.1
25°	148.7	138.9	118.3	97.7	78.0	60.8	46.7	36.3	29.8	26.4	26.1
27.5°	165.6	154.5	130.9	107.5	84.5	64.8	48.9	37.5	30.1	26.7	26.1
30°	183.7	171.1	143.8	117.1	90.6	68.5	50.7	38.1	30.4	26.7	26.4
32.5°	201.9	186.5	157.9	126.3	97.1	71.9	52.5	39.0	30.7	27.0	26.7
35°	219.4	204.3	170.8	135.8	103.2	75.3	54.1	39.6	31.3	27.3	26.7
37.5°	237.2	220.9	183.1	144.7	108.8	78.0	55.3	40.2	31.6	27.7	27.0
40°	254.1	235.0	195.1	153.3	113.4	80.5	56.2	40.6	32.0	28.0	27.3
42.5°	270.1	249.8	206.5	160.7	118.0	82.3	57.1	41.2	32.3	28.3	28.0
45°	283.6	262.7	216.3	168.1	121.4	83.9	57.8	41.5	32.6	28.6	28.3
47.5°	296.8	274.4	225.5	173.9	124.7	85.4	58.1	41.8	32.9	29.2	28.9
50°	308.5	284.8	233.8	179.1	127.2	86.0	58.4	42.1	33.5	29.8	29.5
52.5°	318.3	293.7	240.3	183.4	129.0	86.6	58.4	42.1	33.8	30.4	30.1
55°	326.3	301.4	246.1	186.5	130.3	86.9	58.4	42.4	34.4	31.0	30.7
57.5°	333.0	307.2	250.7	189.3	131.5	86.9	58.4	42.7	35.0	31.6	31.3
60°	338.0	312.1	254.1	191.1	131.8	86.6	58.4	43.0	35.6	32.6	32.3
62.5°	342.0	315.5	256.8	192.3	131.8	86.0	58.4	43.3	36.3	33.5	33.2
65°	344.7	318.0	258.7	192.9	131.5	85.7	58.4	43.9	37.2	34.4	34.1
67.5°	*346.3*	*319.8*	*259.9*	*193.6*	*131.2*	*85.7*	*58.7*	*44.9*	*38.1*	*35.6*	*35.3*
70°	346.9	320.1	260.2	193.2	130.9	85.1	59.0	45.5	39.3	36.9	36.6
72.5°	346.9	320.4	260.2	193.2	130.3	85.4	59.3	46.4	40.6	38.1	37.8
75°	345.9	319.5	259.9	192.6	130.0	85.1	60.2	47.6	41.8	39.6	39.3
77.5°	344.1	318.3	259.0	191.7	129.7	85.4	60.8	48.9	43.3	41.2	41.2
80°	342.0	316.4	257.8	190.8	129.3	86.0	61.8	50.4	44.9	43.0	42.7
82.5°	338.6	313.7	255.6	189.6	128.7	86.3	63.0	51.9	46.7	44.5	44.5
85°	334.0	309.7	252.9	188.0	128.1	86.9	64.2	53.2	48.5	46.4	46.4
87.5°	329.0	305.4	249.5	186.2	127.8	87.6	65.7	55.0	50.1	48.2	47.9
90°	323.2	300.2	246.1	184.0	127.5	88.5	67.0	56.8	52.2	50.4	50.1
92.5°	317.1	294.9	242.4	182.5	127.2	89.4	68.8	59.0	54.4	52.5	52.2
95°	310.9	289.4	238.7	180.3	127.2	90.6	70.7	61.1	56.5	54.7	54.4
97.5°	303.9	283.3	234.4	178.5	127.2	92.2	72.8	63.3	58.7	56.8	56.8
100°	296.5	277.1	230.1	176.7	127.5	93.7	75.0	65.7	61.1	59.3	59.3
102.5°	289.1	270.4	226.1	175.1	128.1	95.9	77.7	68.5	63.9	62.1	61.8
105°	281.1	263.6	221.5	173.0	128.7	97.7	80.2	71.0	66.4	64.5	64.5
107.5°	273.1	256.5	216.9	171.4	129.3	99.5	83.0	73.7	69.1	67.0	67.0
110°	264.2	248.9	212.0	169.6	130.0	101.7	85.1	76.2	71.3	69.4	69.1

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

Scaled Data Report

REPORT NUMBER: P1045874
CATALOG NUMBER: FFX-CLB-30-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	255.0	241.2	206.8	167.1	130.3	103.5	87.6	78.7	73.7	71.6	71.3
115°	245.2	232.6	200.9	164.7	130.3	105.1	89.4	80.5	75.6	73.4	73.1
117.5°	235.3	223.4	194.5	161.3	130.0	106.0	90.9	81.7	76.8	74.7	74.4
120°	224.9	214.1	188.0	157.9	128.7	106.3	91.6	82.6	77.4	75.3	75.0
122.5°	214.1	204.3	180.3	153.3	126.9	106.0	91.6	82.6	77.4	75.0	74.7
125°	202.5	193.9	172.4	147.8	124.1	104.8	90.9	82.0	76.8	74.4	73.7
127.5°	191.1	183.4	164.1	142.2	120.7	102.9	89.7	80.8	75.6	73.1	72.8
130°	180.0	172.4	155.5	136.1	116.7	100.5	87.6	79.0	74.0	71.3	71.0
132.5°	168.4	161.3	146.9	129.7	112.1	97.4	85.4	77.1	71.9	69.7	69.1
135°	156.7	151.2	137.9	122.9	107.5	94.0	83.0	75.0	70.0	67.6	67.6
137.5°	146.2	140.7	129.0	116.1	102.6	90.0	79.9	72.5	67.9	65.7	65.4
140°	135.5	131.2	120.7	109.4	97.4	86.3	77.4	70.4	66.1	63.9	63.6
142.5°	125.4	121.0	112.8	102.3	92.2	82.3	74.4	67.9	63.9	62.1	61.8
145°	115.2	112.1	104.2	95.9	86.9	78.3	71.0	65.4	62.1	60.2	60.2
147.5°	106.3	103.5	96.5	89.4	81.7	74.7	68.2	63.3	60.2	58.7	58.4
150°	97.7	95.2	89.4	83.6	76.5	70.7	65.1	61.1	58.4	57.1	56.8
152.5°	89.7	87.9	83.0	78.0	72.2	67.0	62.7	59.3	56.8	55.6	55.6
155°	83.0	81.4	77.1	72.8	68.2	63.9	60.2	57.5	55.6	54.7	54.4
157.5°	77.1	75.3	71.9	68.5	64.8	61.1	58.4	55.9	54.7	53.8	53.8
160°	71.6	70.0	67.3	64.8	61.8	59.0	56.5	55.0	53.8	53.2	53.2
162.5°	67.0	65.7	63.6	61.4	59.3	57.1	55.3	54.1	53.2	52.5	52.5
165°	63.0	62.4	60.5	59.0	57.1	55.6	54.4	53.5	52.8	52.5	52.5
167.5°	59.9	59.3	58.1	56.8	55.6	54.4	53.5	52.8	52.5	52.2	52.2
170°	57.5	56.8	56.2	55.3	54.4	53.5	52.8	52.5	52.2	52.2	52.2
172.5°	55.6	55.0	54.7	54.1	53.5	52.8	52.5	52.2	52.2	52.2	52.2
175°	54.1	53.8	53.5	53.2	52.8	52.5	52.2	52.2	52.2	52.2	52.2
177.5°	53.2	52.8	52.8	52.5	52.5	52.2	52.2	52.5	52.5	52.5	52.8
180°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

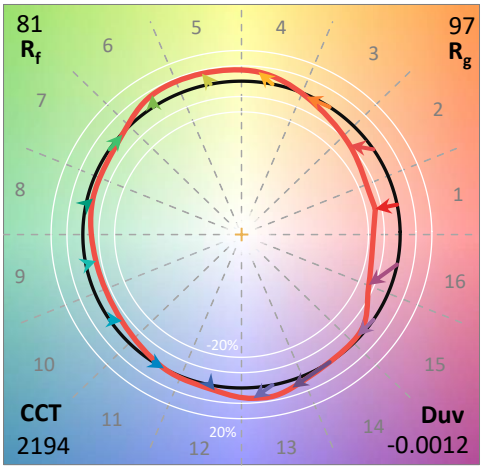
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
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-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

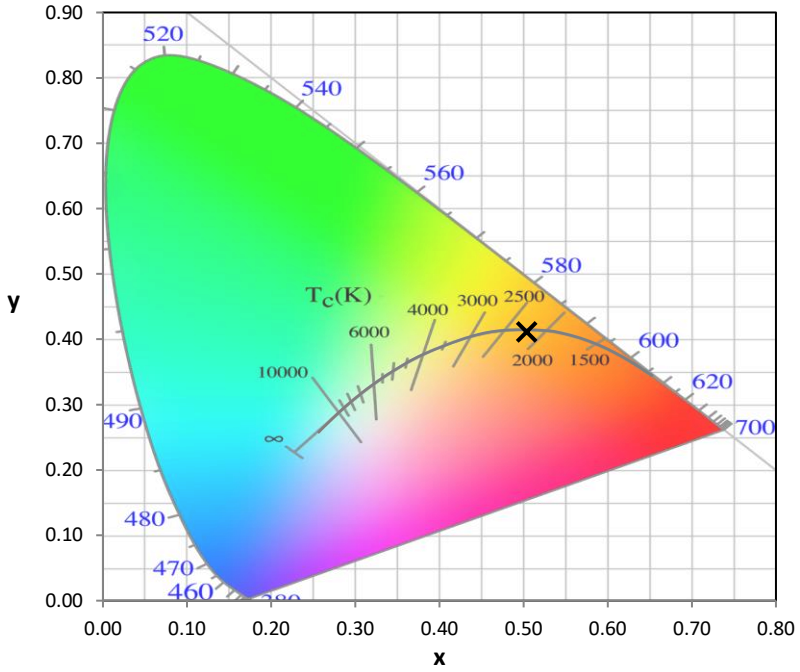
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

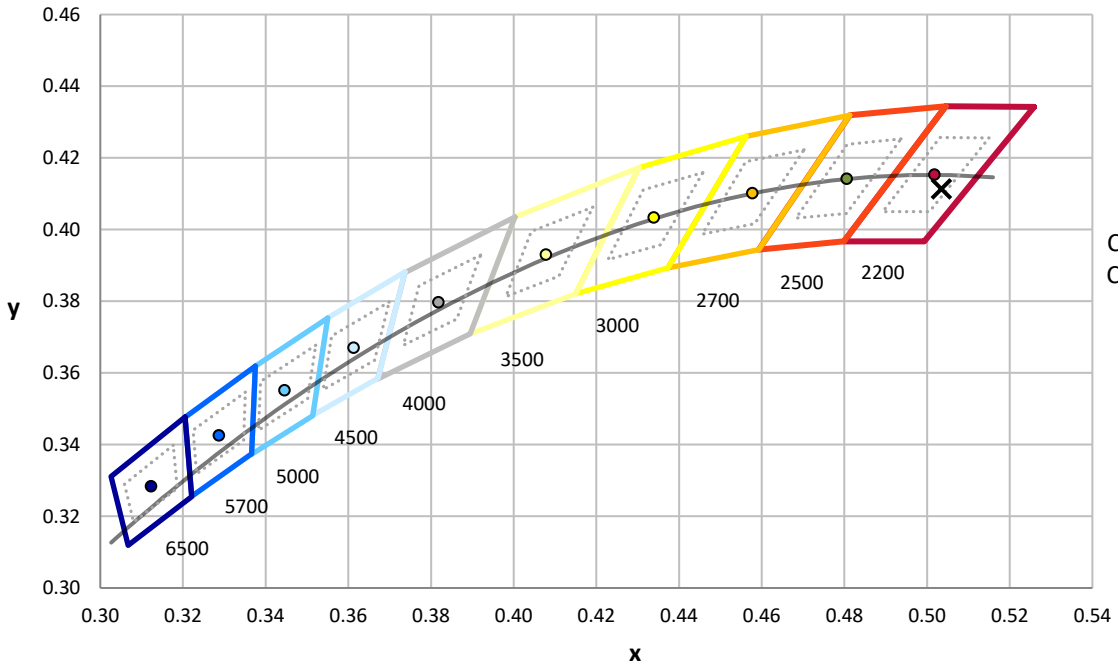
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

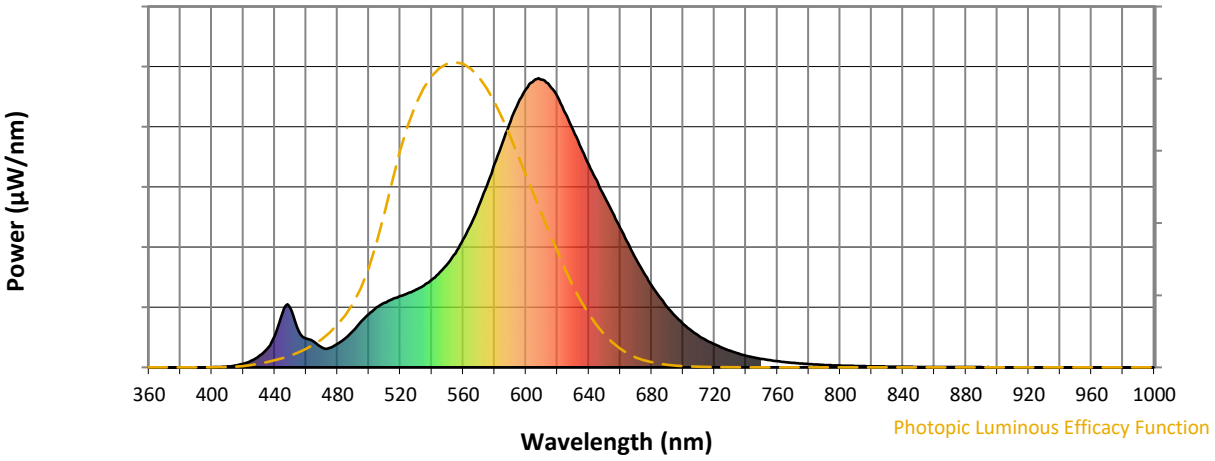


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

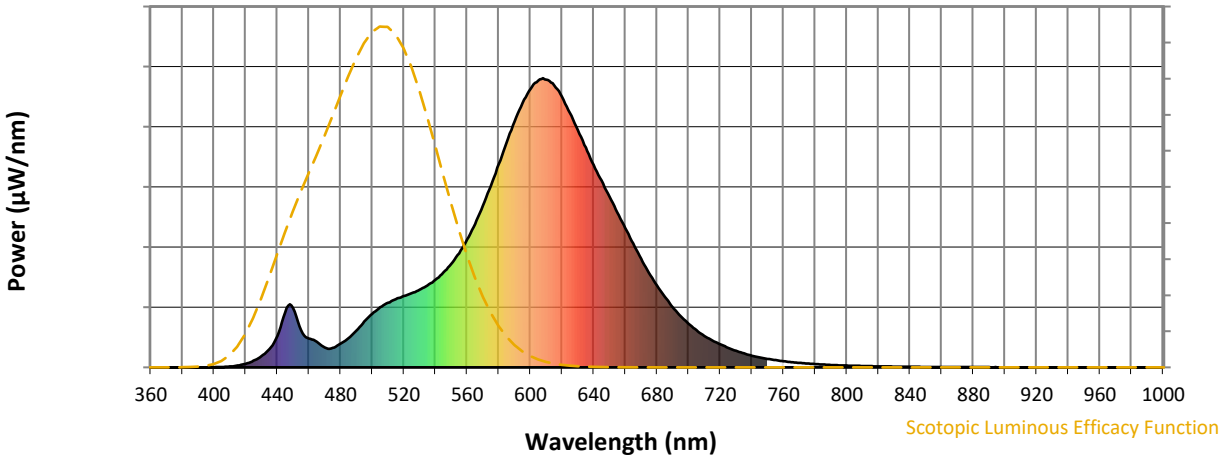


Photopic Lumens: NR

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

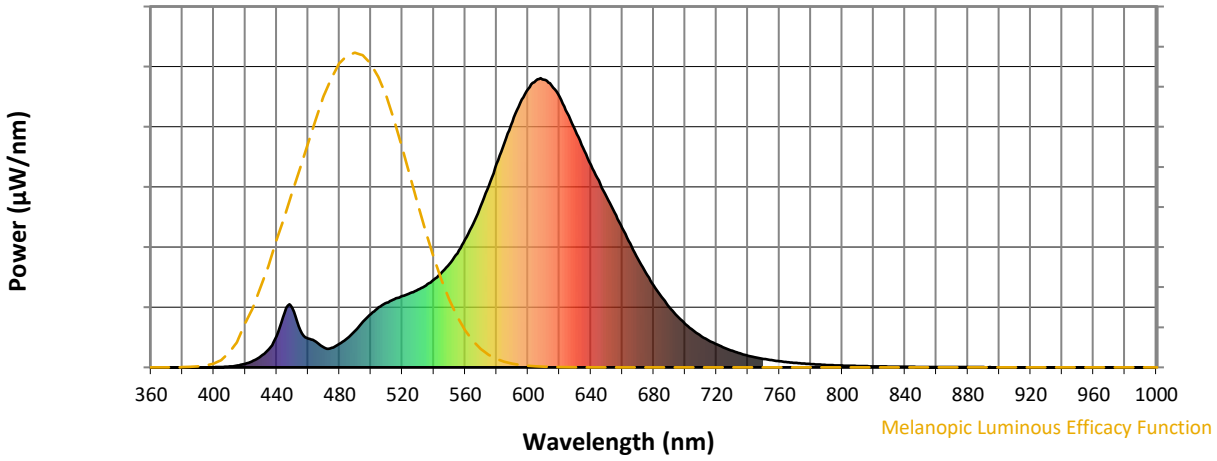


Scotopic Lumens: NR **S/P: 0.96**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

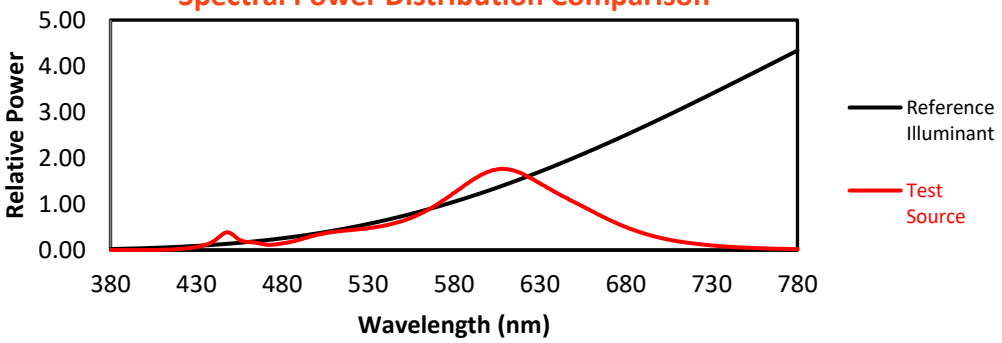
REPORT NUMBER: SP1-2501-332-7

TM-30-18

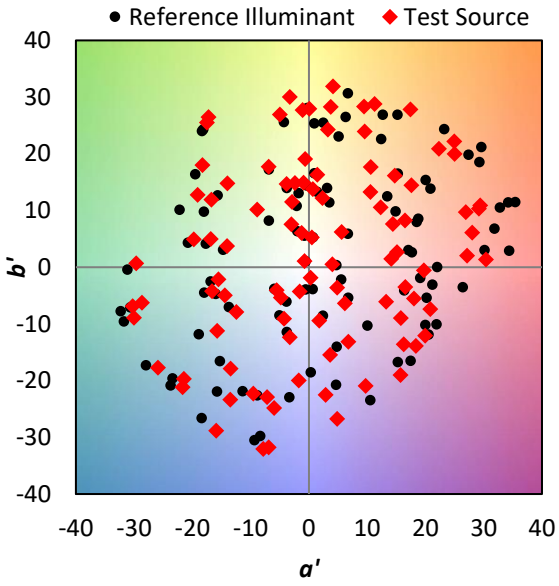
Summary

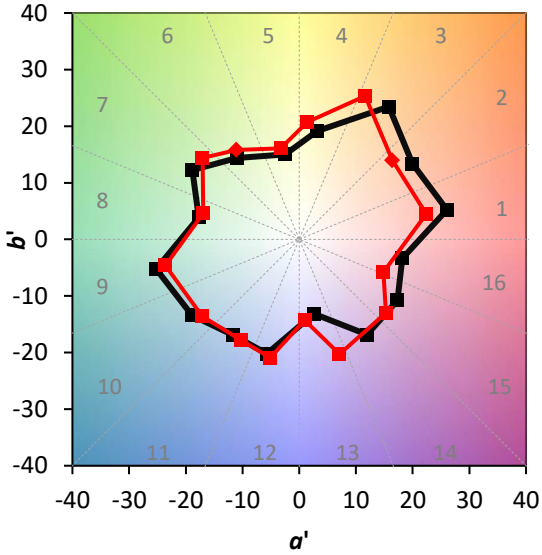
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

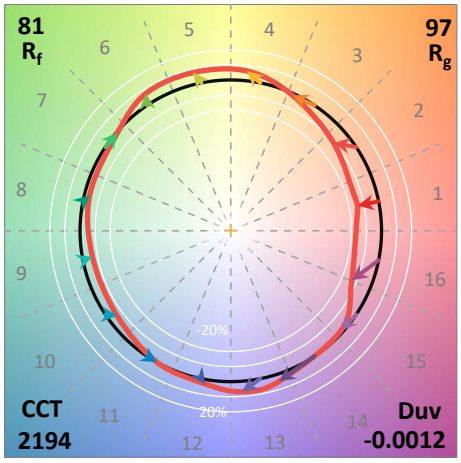
Spectral Power Distribution Comparison

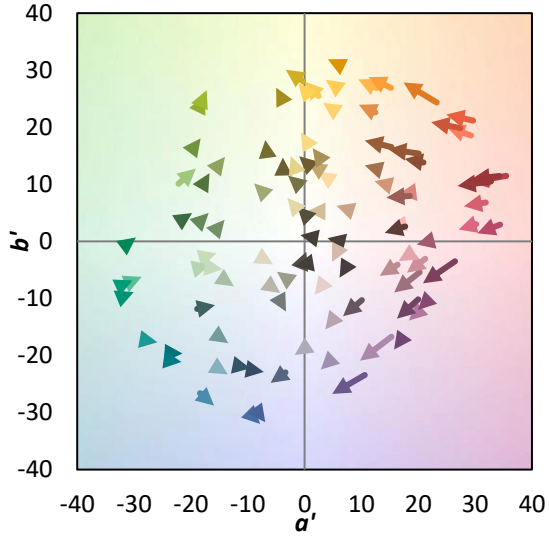


Color Vector Graphics







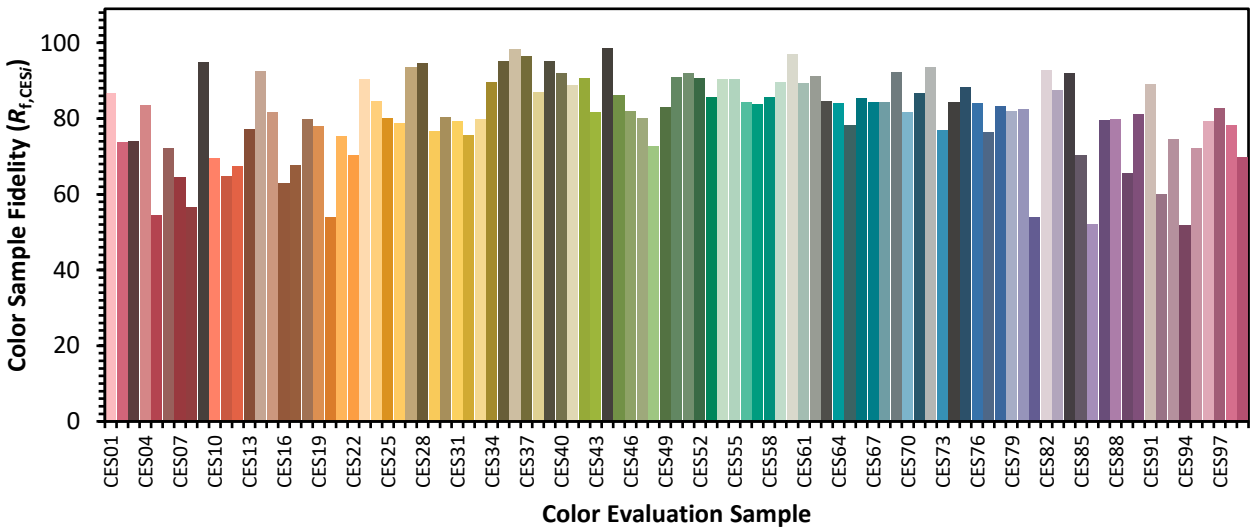


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

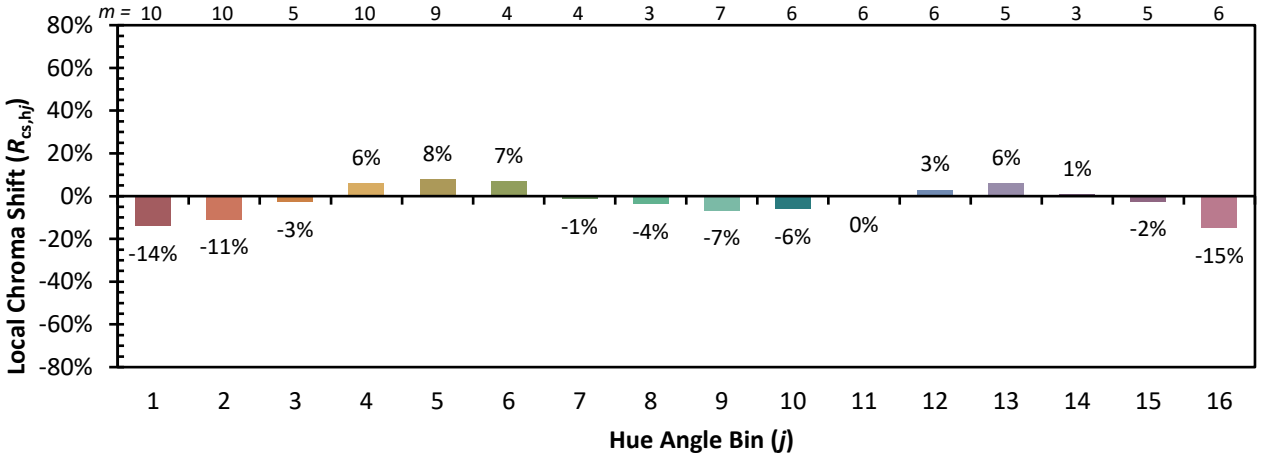
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

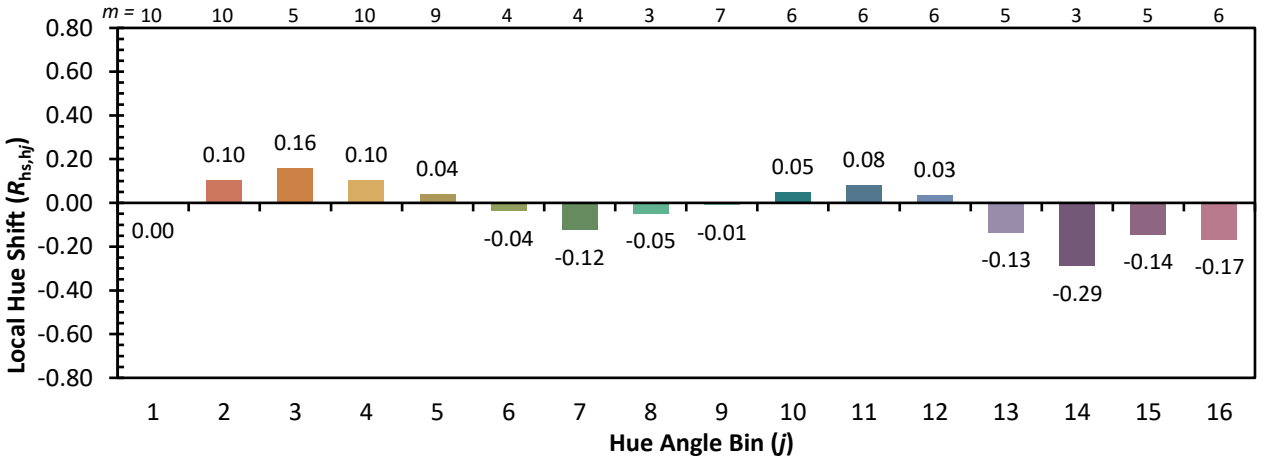


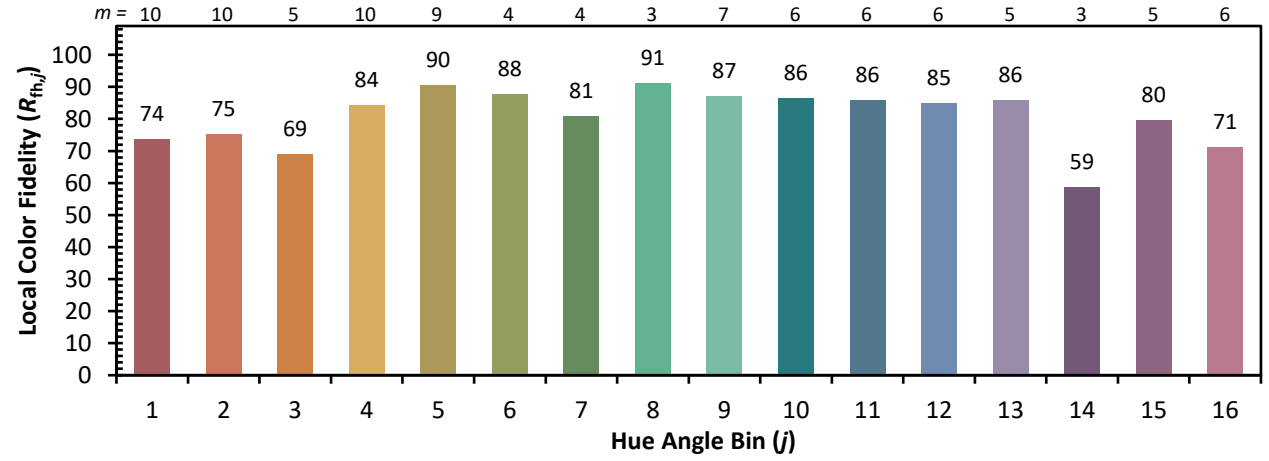
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Color Rendition by Hue-Angle Bin



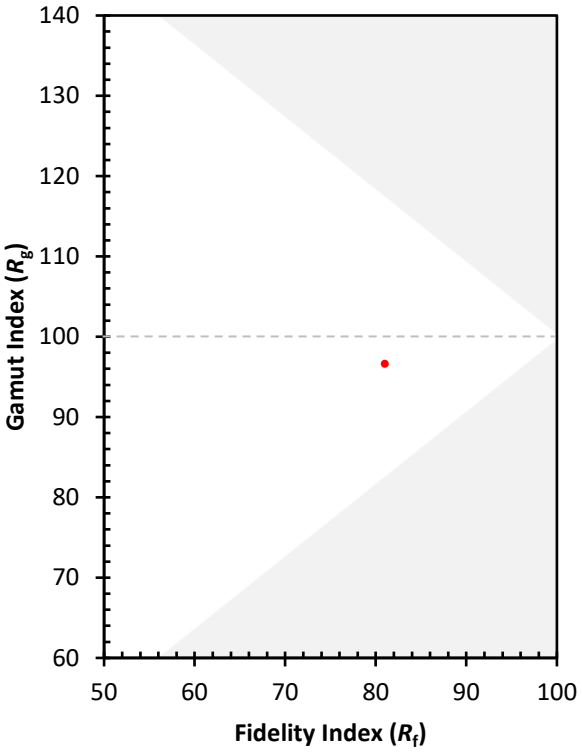


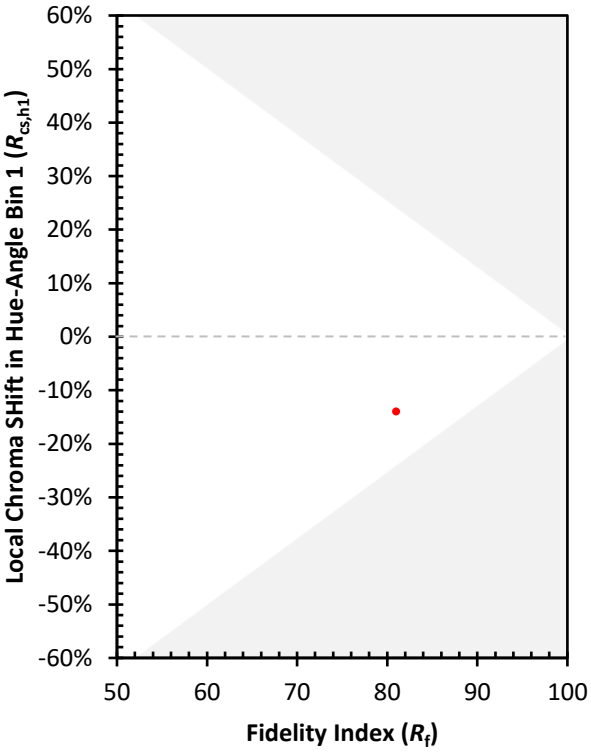


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Measure Comparisons





(END OF REPORT)