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: P1045893

Luminaire Tested: **FFX-CLB-20-730-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:	P1045893
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-730-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2201.1 lumens
Efficiency:	N/A
Efficacy:	111.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U4 - G2

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

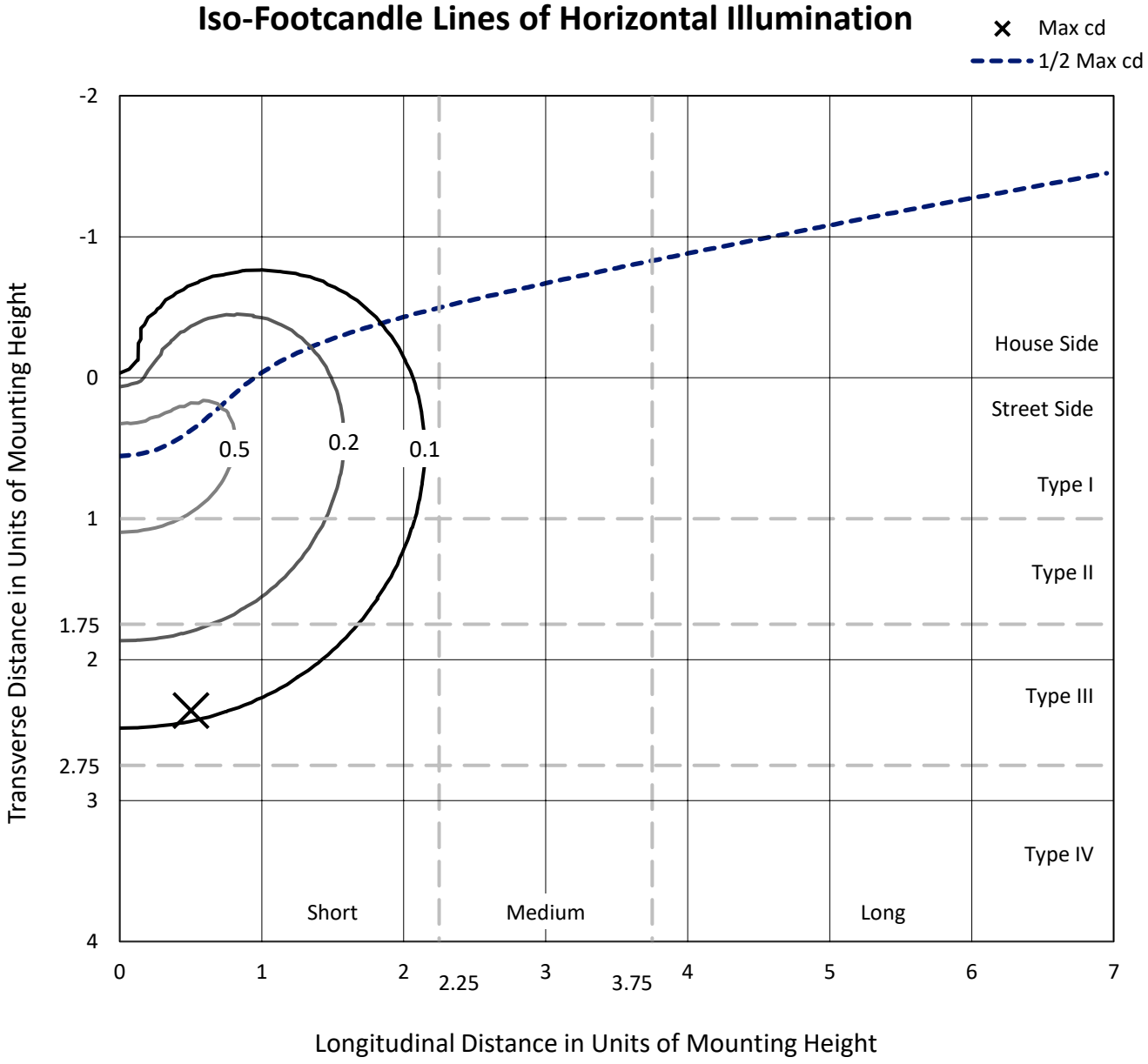


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Iso-Footcandle Lines of Horizontal Illumination



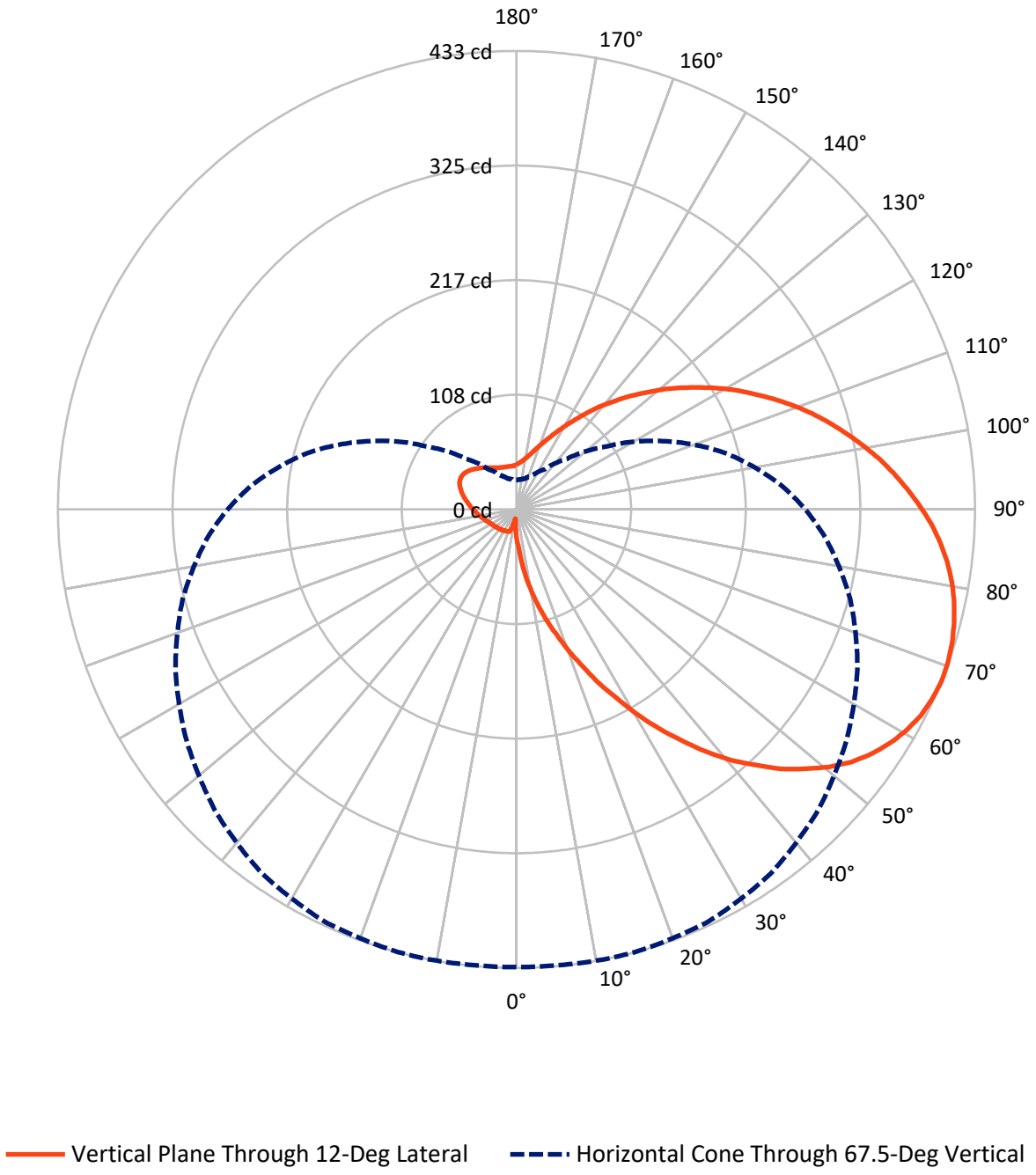
Based on 15 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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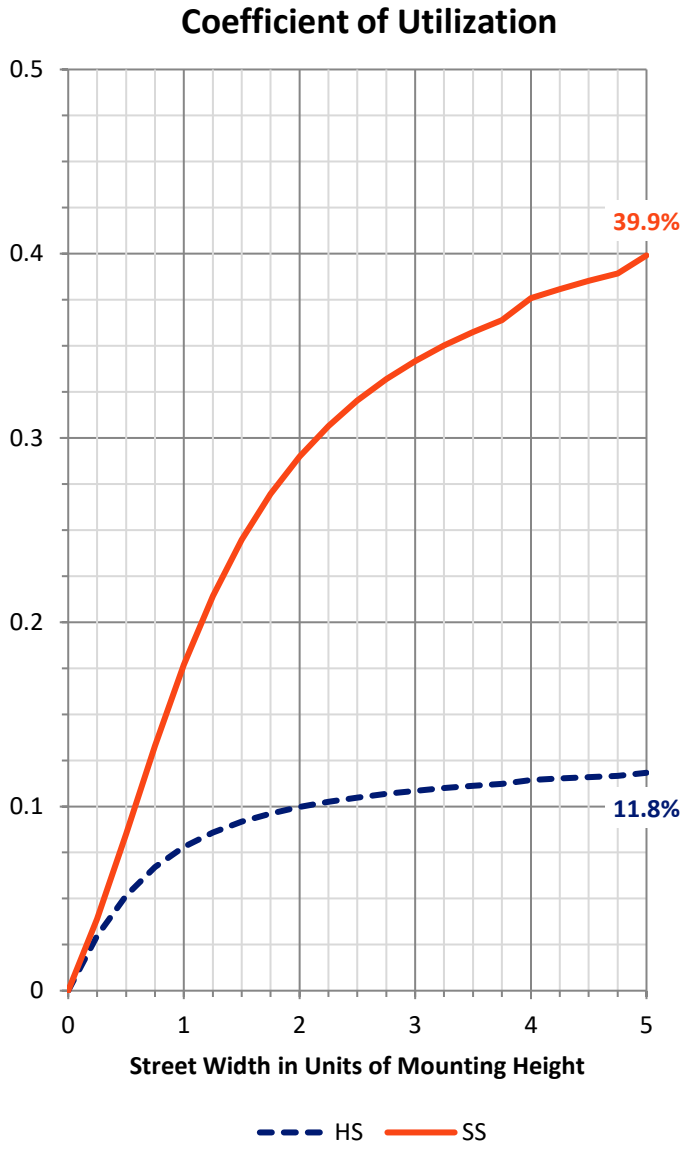
REPORT NUMBER: P1045893
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	283.3	274.2	557.4
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	1001.5	642.2	1643.7
	% Fixture	45.5	29.2	74.7
Total	Lumens	1284.8	916.4	2201.1
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.2
10°-20°	19.6	0.9
20°-30°	51.1	2.3
30°-40°	99.1	4.5
40°-50°	155.7	7.1
50°-60°	206.6	9.4
60°-70°	240.8	10.9
70°-80°	255.8	11.6
80°-90°	252.6	11.5
90°-100°	232.9	10.6
100°-110°	203.3	9.2
110°-120°	167.1	7.6
120°-130°	126.5	5.7
130°-140°	86.4	3.9
140°-150°	53.0	2.4
150°-160°	29.1	1.3
160°-170°	14.0	0.6
170°-180°	4.1	0.2
0°-90°	1284.8	58.4
0°-180°	2201.1	100.0



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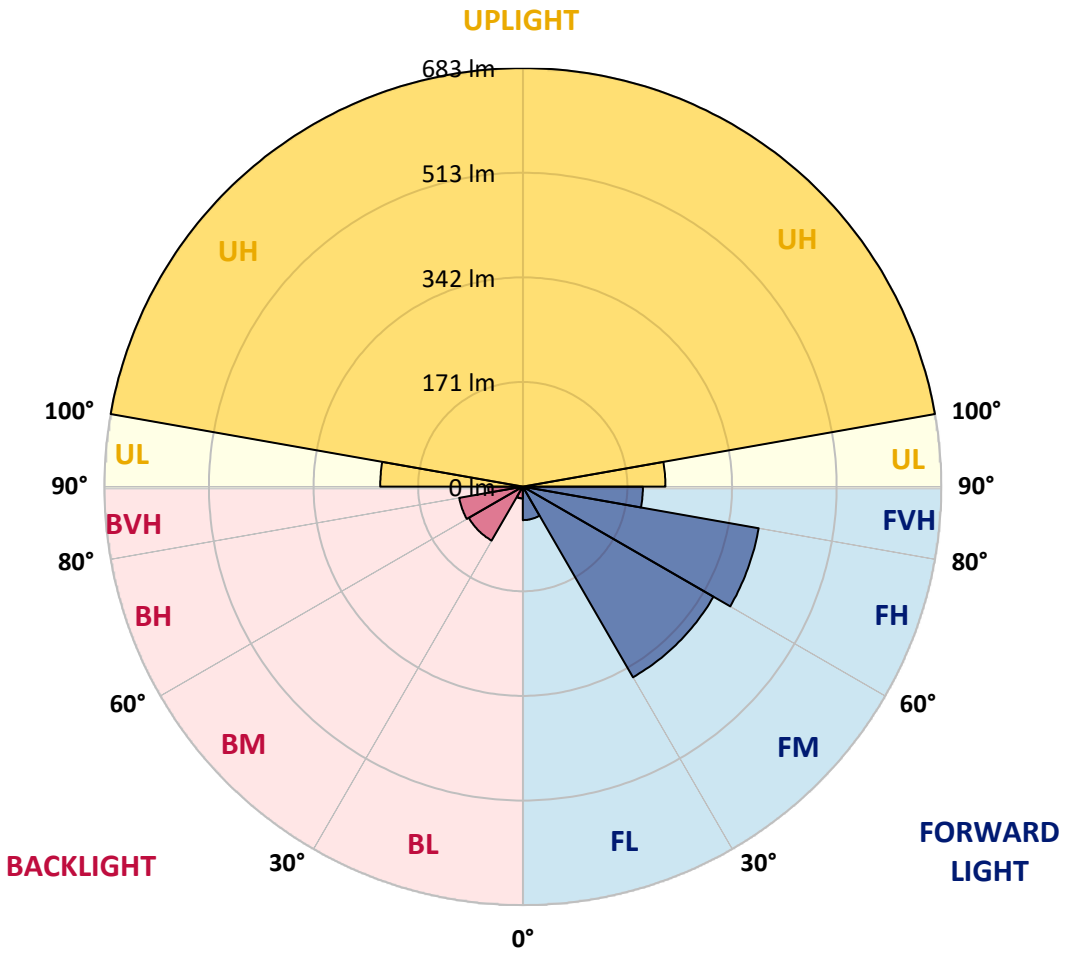
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	54.7	2.5			
FM	(30°-60°)	359.6	16.3			
FH	(60°-80°)	391.1	17.8			G0/660
FVH	(80°-90°)	196.1	8.9			G2/225
BL	(0°-30°)	19.4	0.9	B0/110		
BM	(30°-60°)	101.8	4.6	B0/220		
BH	(60°-80°)	105.5	4.8	B0/110		G0/110
BVH	(80°-90°)	56.5	2.6			G1/100
UL	(90°-100°)	232.9	10.6		U3/500	
UH	(100°-180°)	683.5	31.1		U4/1000	

BUG Rating: B0-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	34.9	35.6	34.9	35.8	35.4	35.4	34.1	32.9	31.2	29.3	27.6
5°	49.4	49.2	48.2	49.2	48.2	47.0	45.0	41.9	38.7	35.8	32.2
7.5°	64.4	64.7	63.9	63.7	61.5	59.8	56.7	53.5	49.6	45.3	40.9
10°	80.6	80.1	78.9	79.2	76.8	73.4	69.7	66.1	61.7	56.7	51.1
12.5°	95.6	95.6	94.7	94.9	92.3	88.4	85.5	80.6	75.3	69.3	62.5
15°	111.6	110.7	110.2	110.2	107.5	104.1	101.0	95.6	89.4	82.6	74.8
17.5°	126.4	126.2	125.7	125.9	123.5	120.6	115.5	110.2	102.7	94.4	86.4
20°	145.3	144.3	143.6	142.4	140.9	137.1	132.2	125.2	117.7	108.7	98.1
22.5°	162.5	163.7	161.8	160.8	158.8	155.7	148.7	141.9	132.9	122.5	110.9
25°	182.3	183.3	182.6	181.4	178.7	174.3	167.8	160.3	149.6	137.8	124.0
27.5°	203.2	203.9	201.9	202.4	197.8	193.7	187.2	178.0	167.8	153.8	139.2
30°	223.7	225.2	224.5	222.8	218.9	215.3	207.5	197.8	186.2	170.7	154.0
32.5°	248.0	246.3	246.5	244.6	242.1	236.3	229.6	218.7	205.1	188.6	169.5
35°	270.5	269.7	267.8	268.8	264.7	259.3	250.9	239.2	224.5	206.3	185.2
37.5°	290.6	291.3	290.1	289.4	286.7	280.6	270.7	258.9	241.9	222.8	199.8
40°	311.2	311.6	311.4	311.4	307.8	301.0	290.8	277.5	260.1	239.5	214.5
42.5°	330.8	331.3	330.0	330.3	327.4	320.4	309.5	295.4	276.0	254.5	227.4
45°	349.7	349.7	349.7	349.4	345.3	338.8	327.6	311.6	292.3	267.8	239.2
47.5°	367.1	366.6	366.4	366.4	363.7	355.9	344.1	326.7	305.6	279.9	250.9
50°	382.6	382.8	382.6	382.1	378.0	371.7	358.4	340.2	317.9	291.5	260.5
52.5°	395.9	396.1	396.4	395.2	392.5	385.0	370.2	350.9	328.3	300.7	268.5
55°	406.6	407.0	407.5	407.0	404.4	395.4	380.6	361.0	336.8	308.5	275.6
57.5°	416.5	416.2	416.5	416.0	413.1	404.4	389.1	368.1	343.6	314.8	280.9
60°	423.3	423.5	423.5	423.5	420.1	411.2	394.9	373.4	348.4	319.6	285.5
62.5°	427.9	428.1	428.8	428.4	425.2	415.8	399.1	377.3	352.1	322.8	288.6
65°	431.0	431.3	431.7	431.3	428.4	418.7	401.7	379.7	354.5	325.2	290.8
67.5°	432.5	432.5	433.2	433.0	429.6	419.6	402.7	380.6	355.5	326.4	292.3
70°	431.7	432.0	432.5	432.2	428.8	418.9	402.0	380.2	355.2	326.4	292.5
72.5°	430.0	430.0	430.5	430.0	426.9	417.0	400.3	378.7	354.0	325.9	292.3
75°	426.7	426.9	427.1	426.9	423.5	413.8	397.4	376.0	352.1	324.2	291.3
77.5°	422.5	422.8	422.8	422.8	419.1	409.5	393.5	372.7	349.4	322.3	289.6
80°	416.5	416.7	417.2	416.7	413.1	404.4	388.4	368.5	346.0	319.1	287.4
82.5°	409.7	409.5	410.2	409.9	406.3	397.6	381.9	363.0	340.9	315.5	284.3
85°	401.2	401.2	401.7	401.2	398.1	388.9	374.1	356.2	335.1	310.2	280.4
87.5°	391.8	391.8	392.3	391.3	387.7	379.7	365.6	348.2	328.8	304.9	276.0
90°	380.6	381.1	381.1	380.4	376.8	369.0	356.2	339.5	320.6	298.3	271.0
92.5°	370.0	370.0	369.5	369.5	365.6	357.9	346.0	330.8	313.1	291.8	265.4
95°	358.6	358.6	357.9	357.4	353.5	347.0	335.6	321.6	304.6	285.0	259.8
97.5°	346.5	346.3	345.8	345.3	341.4	335.1	325.0	311.4	295.9	277.3	253.8
100°	334.2	334.4	332.7	332.5	328.6	323.3	313.6	301.0	286.7	269.3	247.2
102.5°	320.6	321.1	319.6	319.4	315.5	309.7	302.0	290.6	277.7	261.8	240.7
105°	308.5	307.3	306.6	306.1	302.7	297.4	289.1	280.2	268.1	253.0	233.4
107.5°	294.7	294.9	293.5	292.5	289.1	284.8	277.5	269.3	258.6	244.3	226.4
110°	280.9	280.4	279.7	279.2	275.3	271.4	265.1	258.4	248.0	235.6	218.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	266.6	266.8	*265.6*	264.9	262.2	258.1	253.5	247.0	238.0	226.4	210.7
115°	253.3	252.8	*251.8*	251.3	248.4	245.3	240.7	235.8	227.9	216.7	202.4
117.5°	239.7	238.8	*238.5*	237.8	235.6	232.5	228.8	224.7	217.0	207.3	193.7
120°	225.7	225.7	*225.2*	224.7	221.8	219.1	217.0	212.6	206.1	196.9	185.2
122.5°	212.6	212.4	*211.4*	210.7	209.2	206.8	204.1	200.7	194.9	186.7	175.6
125°	198.3	198.8	*198.1*	197.8	195.4	194.2	191.8	189.6	183.5	176.0	166.1
127.5°	186.4	185.7	*185.7*	184.5	183.3	182.1	180.2	177.2	173.1	165.4	156.2
130°	173.9	173.4	*172.6*	172.6	171.2	169.5	168.3	165.9	161.3	155.0	146.3
132.5°	161.3	160.8	*160.3*	159.6	158.6	158.4	157.2	154.5	150.1	144.6	137.1
135°	149.4	149.2	*148.9*	148.9	147.5	146.7	145.3	143.1	140.2	135.1	127.9
137.5°	138.3	137.5	*137.1*	137.1	136.6	135.4	134.1	132.5	129.3	125.2	118.6
140°	126.6	127.1	*127.1*	126.9	125.9	125.2	123.7	122.3	119.1	115.7	110.2
142.5°	117.0	116.7	*116.2*	116.0	115.5	114.5	113.8	112.1	110.2	106.5	101.7
145°	106.5	106.5	*106.3*	106.5	105.6	105.3	104.4	102.9	100.7	97.6	93.5
147.5°	97.3	97.3	*97.1*	97.3	96.6	95.9	95.2	94.2	92.3	89.8	86.2
150°	88.9	89.1	*88.6*	88.6	88.4	87.7	87.2	85.7	84.3	82.3	79.2
152.5°	81.1	81.4	*81.1*	80.9	80.6	80.1	79.4	78.5	77.0	75.3	72.6
155°	74.6	74.3	*74.3*	74.3	74.1	73.4	73.4	71.9	70.5	69.3	66.6
157.5°	68.3	68.3	*68.3*	68.3	67.8	67.6	67.1	65.9	65.1	63.4	61.5
160°	63.2	63.0	*63.0*	63.0	62.5	62.2	61.5	61.0	60.1	58.6	57.1
162.5°	58.1	58.4	*58.4*	58.4	57.9	57.6	57.1	56.7	55.9	54.5	53.5
165°	54.2	54.2	*54.2*	54.0	53.8	53.8	53.0	52.8	52.1	51.1	50.4
167.5°	51.1	51.1	*50.8*	51.1	50.6	50.1	49.9	49.4	48.9	48.4	47.7
170°	48.4	48.4	*48.4*	48.4	48.2	47.9	47.5	47.2	46.7	46.2	45.5
172.5°	46.2	46.2	*46.2*	46.2	46.0	45.8	45.3	45.0	44.8	44.3	43.8
175°	44.6	44.6	*44.6*	44.6	44.3	44.1	43.6	43.6	43.3	43.1	42.6
177.5°	43.3	43.3	*43.1*	43.1	42.9	42.6	42.6	42.4	42.4	42.1	41.9
180°	41.9	41.9	*41.9*	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	26.6	25.7	24.0	22.5	20.8	19.6	18.4	18.2	18.2	18.6	18.6
5°	30.8	28.6	25.2	22.0	18.4	15.7	13.3	11.1	9.7	9.0	9.0
7.5°	38.5	36.8	31.7	27.4	23.0	18.9	15.0	11.6	9.2	7.5	7.3
10°	48.4	45.8	39.7	34.1	28.3	23.2	18.6	14.5	11.6	10.2	10.2
12.5°	59.1	55.5	48.2	41.4	34.6	28.1	22.8	18.6	15.7	14.3	13.8
15°	70.5	66.3	57.6	48.9	40.7	33.7	27.6	22.5	19.6	18.2	17.9
17.5°	81.1	76.5	66.6	56.2	46.7	38.3	31.0	25.7	22.0	20.3	20.1
20°	92.7	86.7	75.1	63.0	51.8	41.6	33.4	27.1	22.8	20.8	20.6
22.5°	104.6	97.6	83.8	69.7	56.4	44.8	35.1	27.8	23.0	20.8	20.6
25°	117.2	109.4	93.2	77.0	61.5	47.9	36.8	28.6	23.5	20.8	20.6
27.5°	130.5	121.8	103.2	84.7	66.6	51.1	38.5	29.5	23.7	21.1	20.6
30°	144.8	134.9	113.3	92.3	71.4	54.0	40.0	30.0	24.0	21.1	20.8
32.5°	159.1	147.0	124.5	99.5	76.5	56.7	41.4	30.8	24.2	21.3	21.1
35°	172.9	161.0	134.6	107.0	81.4	59.3	42.6	31.2	24.7	21.6	21.1
37.5°	186.9	174.1	144.3	114.0	85.7	61.5	43.6	31.7	24.9	21.8	21.3
40°	200.3	185.2	153.8	120.8	89.4	63.4	44.3	32.0	25.2	22.0	21.6
42.5°	212.8	196.9	162.7	126.6	93.0	64.9	45.0	32.4	25.4	22.3	22.0
45°	223.5	207.0	170.5	132.5	95.6	66.1	45.5	32.7	25.7	22.5	22.3
47.5°	233.9	216.2	177.7	137.1	98.3	67.3	45.8	32.9	25.9	23.0	22.8
50°	243.1	224.5	184.3	141.2	100.2	67.8	46.0	33.2	26.4	23.5	23.2
52.5°	250.9	231.5	189.4	144.6	101.7	68.3	46.0	33.2	26.6	24.0	23.7
55°	257.2	237.5	194.0	147.0	102.7	68.5	46.0	33.4	27.1	24.5	24.2
57.5°	262.5	242.1	197.6	149.2	103.6	68.5	46.0	33.7	27.6	24.9	24.7
60°	266.4	246.0	200.3	150.6	103.9	68.3	46.0	33.9	28.1	25.7	25.4
62.5°	269.5	248.7	202.4	151.6	103.9	67.8	46.0	34.1	28.6	26.4	26.2
65°	271.7	250.6	203.9	152.1	103.6	67.6	46.0	34.6	29.3	27.1	26.9
67.5°	*272.9*	*252.1*	*204.9*	*152.5*	*103.4*	*67.6*	*46.2*	*35.4*	*30.0*	*28.1*	*27.8*
70°	273.4	252.3	205.1	152.3	103.2	67.1	46.5	35.8	31.0	29.1	28.8
72.5°	273.4	252.6	205.1	152.3	102.7	67.3	46.7	36.6	32.0	30.0	29.8
75°	272.7	251.8	204.9	151.8	102.4	67.1	47.5	37.5	32.9	31.2	31.0
77.5°	271.2	250.9	204.1	151.1	102.2	67.3	47.9	38.5	34.1	32.4	32.4
80°	269.5	249.4	203.2	150.4	101.9	67.8	48.7	39.7	35.4	33.9	33.7
82.5°	266.8	247.2	201.5	149.4	101.5	68.0	49.6	40.9	36.8	35.1	35.1
85°	263.2	244.1	199.3	148.2	101.0	68.5	50.6	41.9	38.3	36.6	36.6
87.5°	259.3	240.7	196.6	146.7	100.7	69.0	51.8	43.3	39.5	38.0	37.8
90°	254.7	236.6	194.0	145.0	100.5	69.7	52.8	44.8	41.2	39.7	39.5
92.5°	249.9	232.5	191.1	143.8	100.2	70.5	54.2	46.5	42.9	41.4	41.2
95°	245.0	228.1	188.1	142.1	100.2	71.4	55.7	48.2	44.6	43.1	42.9
97.5°	239.5	223.3	184.8	140.7	100.2	72.6	57.4	49.9	46.2	44.8	44.8
100°	233.7	218.4	181.4	139.2	100.5	73.9	59.1	51.8	48.2	46.7	46.7
102.5°	227.9	213.1	178.2	138.0	101.0	75.5	61.3	54.0	50.4	48.9	48.7
105°	221.6	207.8	174.6	136.3	101.5	77.0	63.2	55.9	52.3	50.8	50.8
107.5°	215.3	202.2	171.0	135.1	101.9	78.5	65.4	58.1	54.5	52.8	52.8
110°	208.2	196.1	167.1	133.7	102.4	80.1	67.1	60.1	56.2	54.7	54.5

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

Scaled Data Report

REPORT NUMBER: P1045893
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	201.0	190.1	163.0	131.7	102.7	81.6	69.0	62.0	58.1	56.4	56.2
115°	193.2	183.3	158.4	129.8	102.7	82.8	70.5	63.4	59.6	57.9	57.6
117.5°	185.5	176.0	153.3	127.1	102.4	83.5	71.7	64.4	60.5	58.8	58.6
120°	177.2	168.8	148.2	124.5	101.5	83.8	72.2	65.1	61.0	59.3	59.1
122.5°	168.8	161.0	142.1	120.8	100.0	83.5	72.2	65.1	61.0	59.1	58.8
125°	159.6	152.8	135.8	116.5	97.8	82.6	71.7	64.7	60.5	58.6	58.1
127.5°	150.6	144.6	129.3	112.1	95.2	81.1	70.7	63.7	59.6	57.6	57.4
130°	141.9	135.8	122.5	107.3	92.0	79.2	69.0	62.2	58.4	56.2	55.9
132.5°	132.7	127.1	115.7	102.2	88.4	76.8	67.3	60.8	56.7	55.0	54.5
135°	123.5	119.1	108.7	96.9	84.7	74.1	65.4	59.1	55.2	53.3	53.3
137.5°	115.3	110.9	101.7	91.5	80.9	70.9	63.0	57.1	53.5	51.8	51.6
140°	106.8	103.4	95.2	86.2	76.8	68.0	61.0	55.5	52.1	50.4	50.1
142.5°	98.8	95.4	88.9	80.6	72.6	64.9	58.6	53.5	50.4	48.9	48.7
145°	90.8	88.4	82.1	75.5	68.5	61.7	55.9	51.6	48.9	47.5	47.5
147.5°	83.8	81.6	76.0	70.5	64.4	58.8	53.8	49.9	47.5	46.2	46.0
150°	77.0	75.1	70.5	65.9	60.3	55.7	51.3	48.2	46.0	45.0	44.8
152.5°	70.7	69.3	65.4	61.5	56.9	52.8	49.4	46.7	44.8	43.8	43.8
155°	65.4	64.2	60.8	57.4	53.8	50.4	47.5	45.3	43.8	43.1	42.9
157.5°	60.8	59.3	56.7	54.0	51.1	48.2	46.0	44.1	43.1	42.4	42.4
160°	56.4	55.2	53.0	51.1	48.7	46.5	44.6	43.3	42.4	41.9	41.9
162.5°	52.8	51.8	50.1	48.4	46.7	45.0	43.6	42.6	41.9	41.4	41.4
165°	49.6	49.2	47.7	46.5	45.0	43.8	42.9	42.1	41.6	41.4	41.4
167.5°	47.2	46.7	45.8	44.8	43.8	42.9	42.1	41.6	41.4	41.2	41.2
170°	45.3	44.8	44.3	43.6	42.9	42.1	41.6	41.4	41.2	41.2	41.2
172.5°	43.8	43.3	43.1	42.6	42.1	41.6	41.4	41.2	41.2	41.2	41.2
175°	42.6	42.4	42.1	41.9	41.6	41.4	41.2	41.2	41.2	41.2	41.2
177.5°	41.9	41.6	41.6	41.4	41.4	41.2	41.2	41.4	41.4	41.4	41.6
180°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

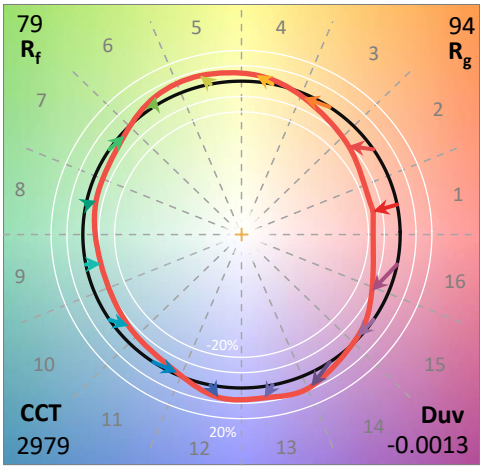
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-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):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

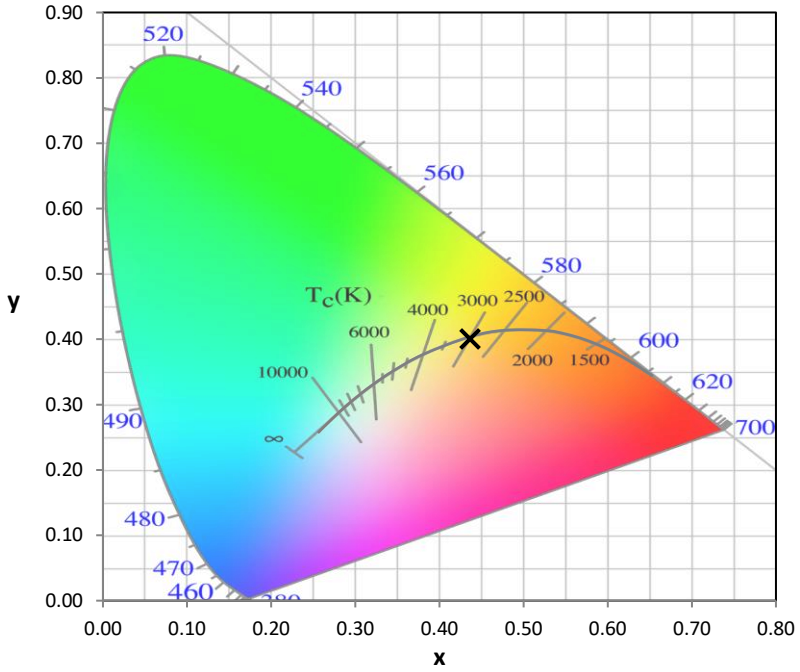
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

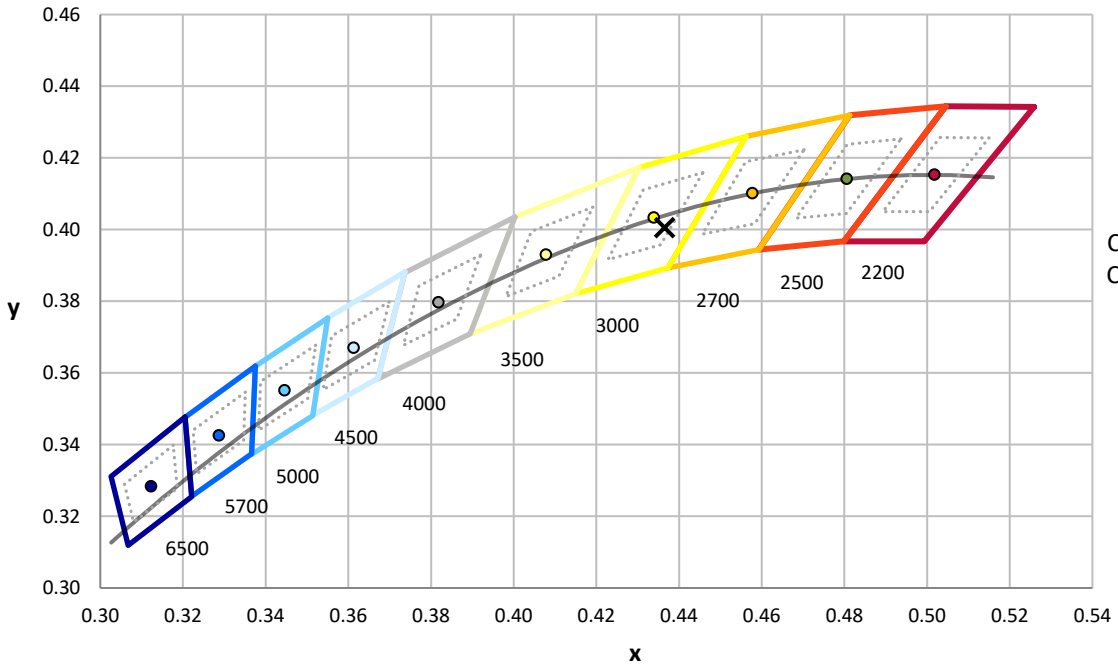
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

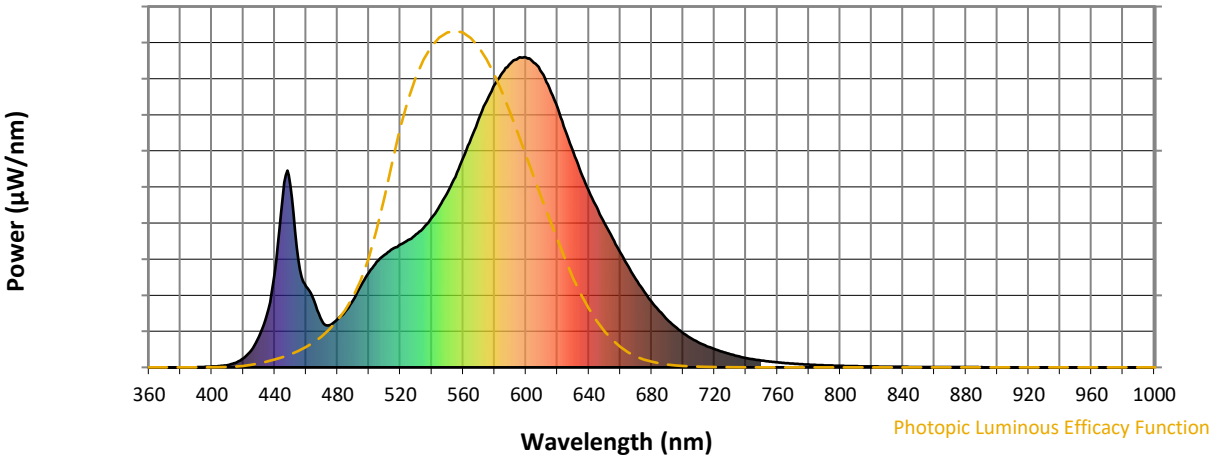


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

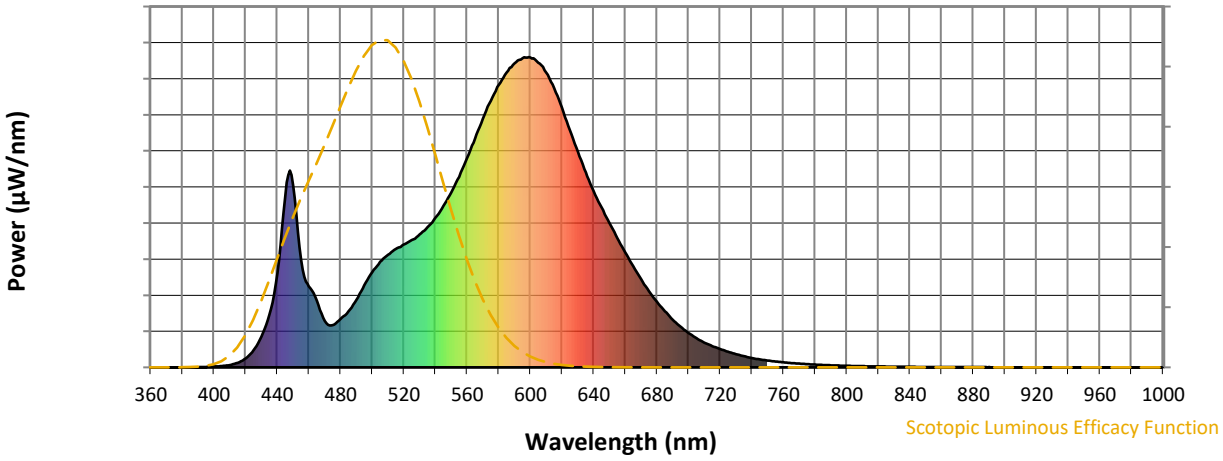


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

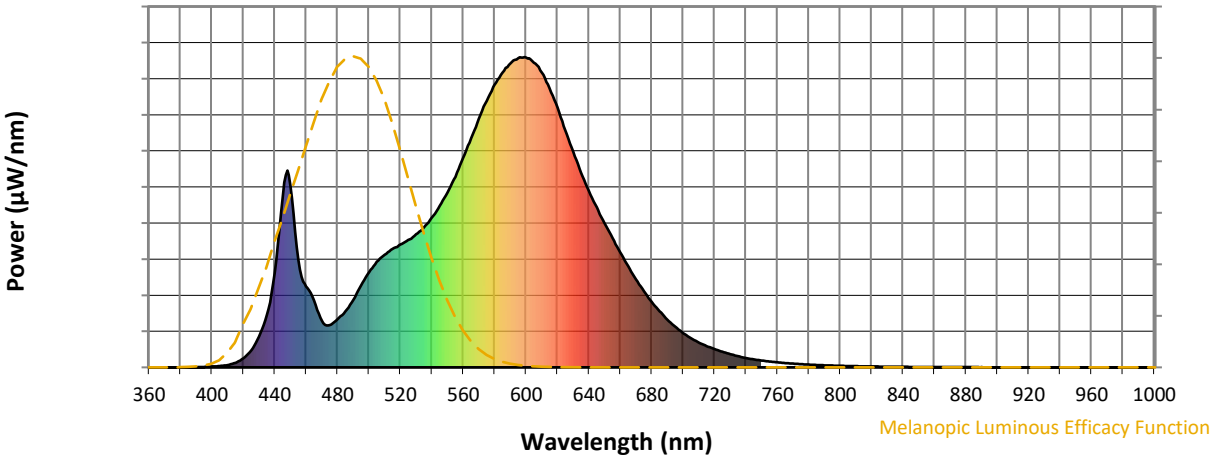


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

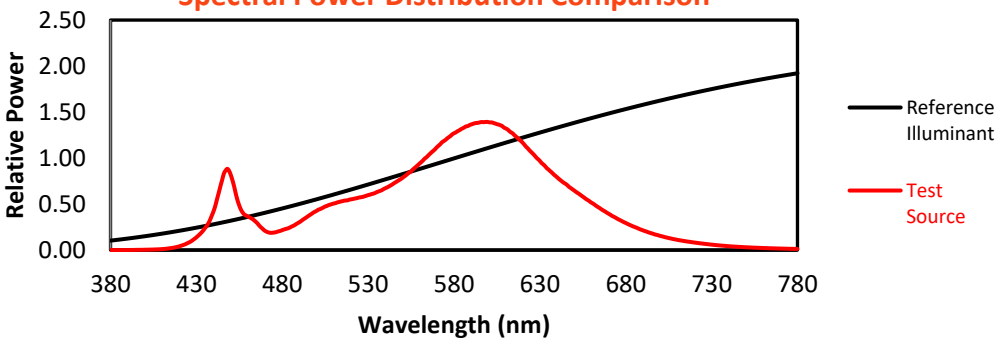
REPORT NUMBER: SP1-2501-332-9

TM-30-18

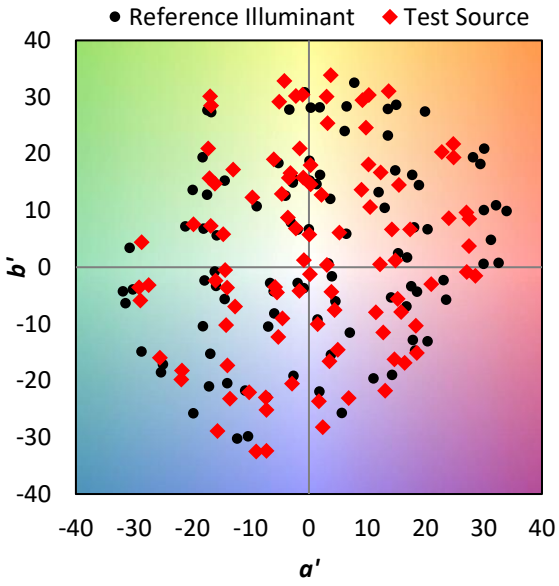
Summary

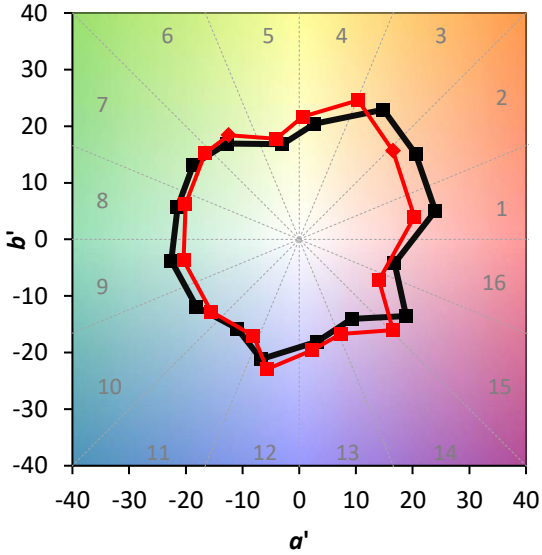
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

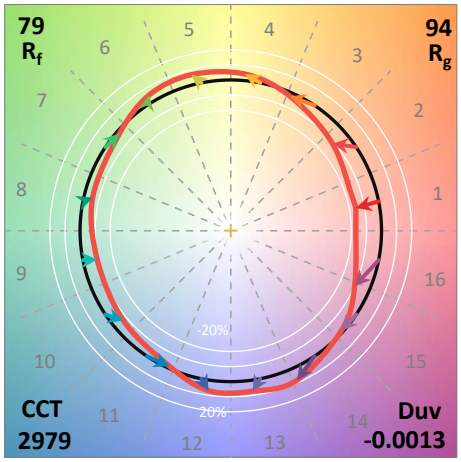
Spectral Power Distribution Comparison

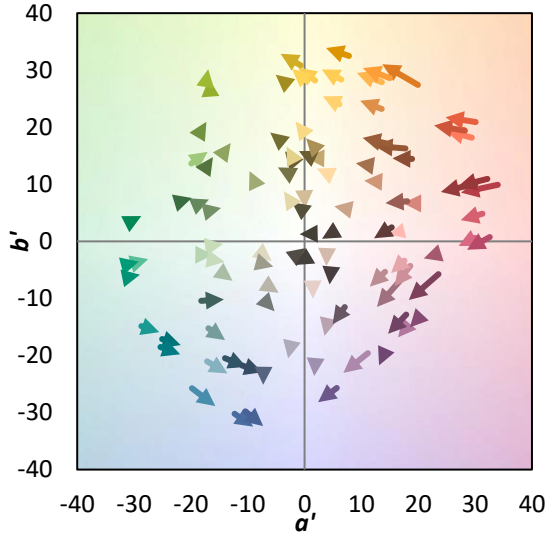


Color Vector Graphics







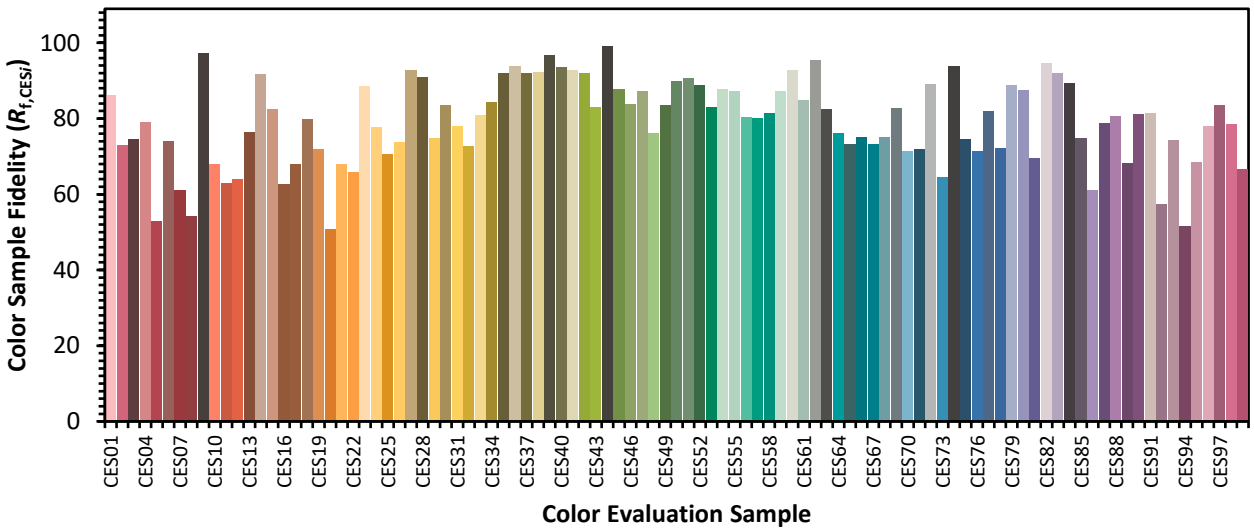


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

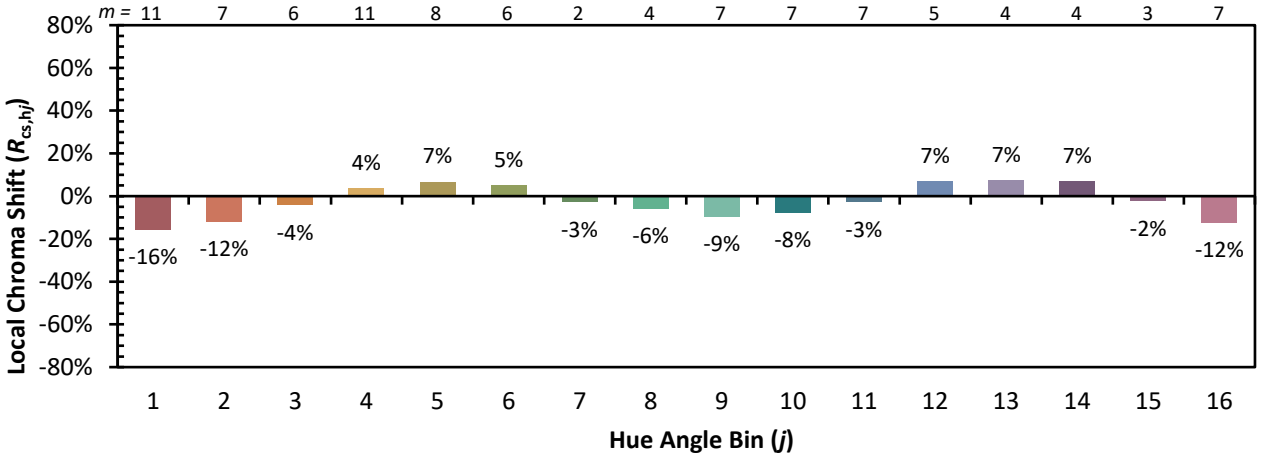
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
CES25 = 72	CES50 = 90	CES75 = 75	

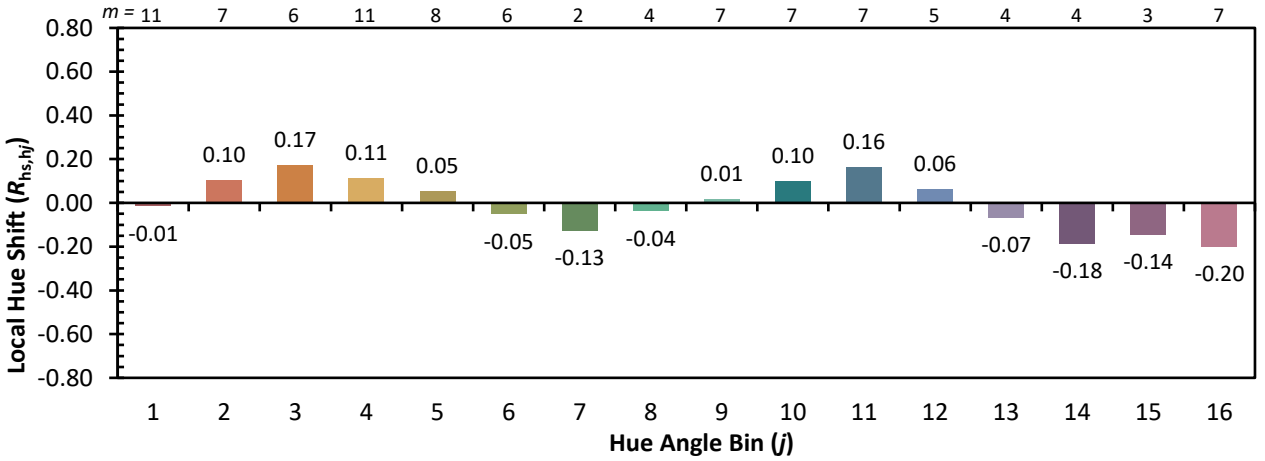


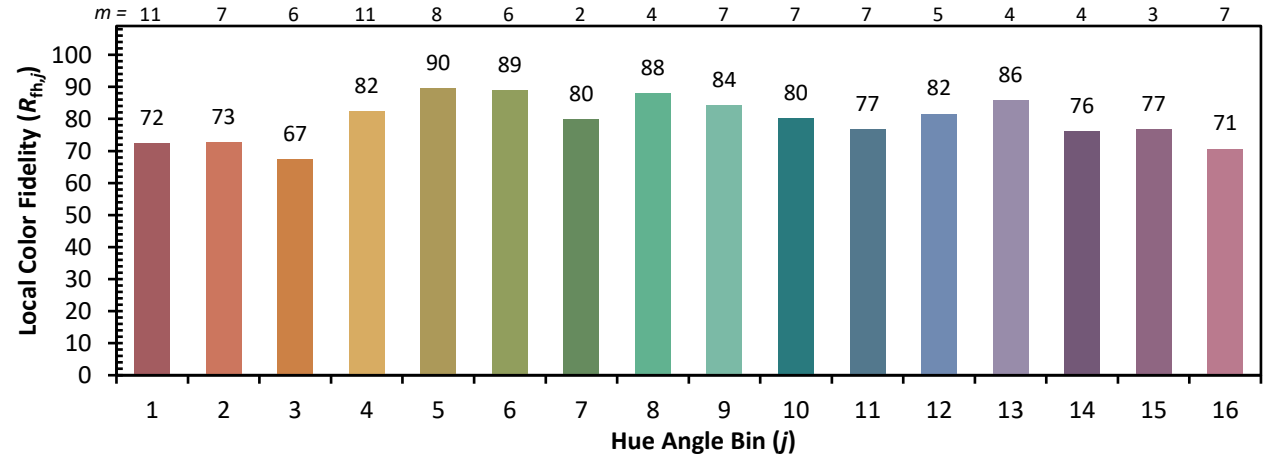
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Color Rendition by Hue-Angle Bin



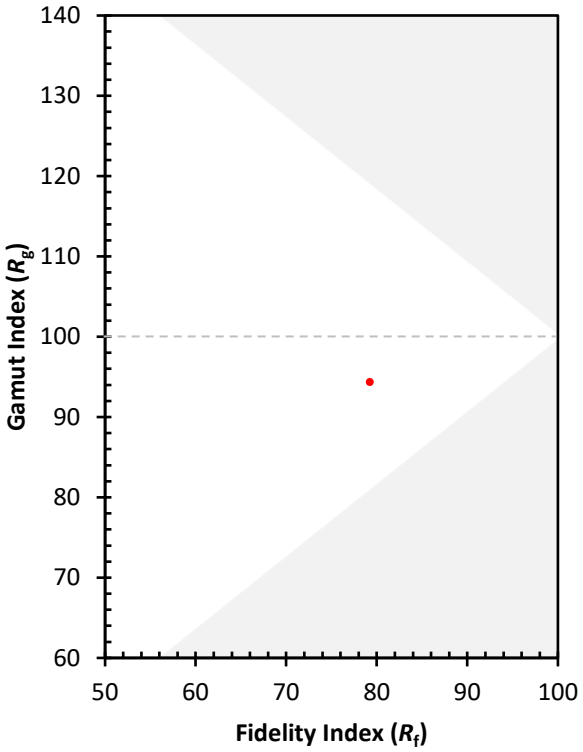


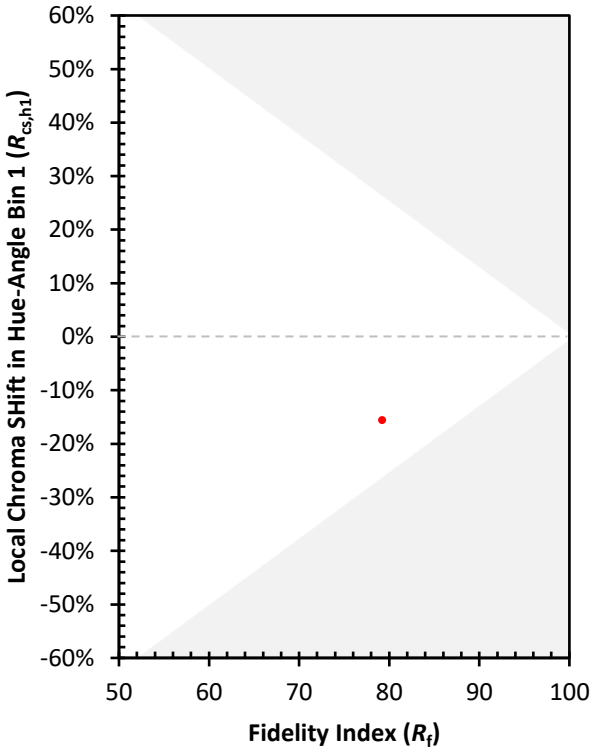


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Measure Comparisons





(END OF REPORT)