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: P1045974

Luminaire Tested: **FFX-CLB-20-727-U-PG-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:	P1045974
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-727-U-PG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2112.5 lumens
Efficiency:	N/A
Efficacy:	106.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification:	Type IV - Short
BUG Rating:	B1 - 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

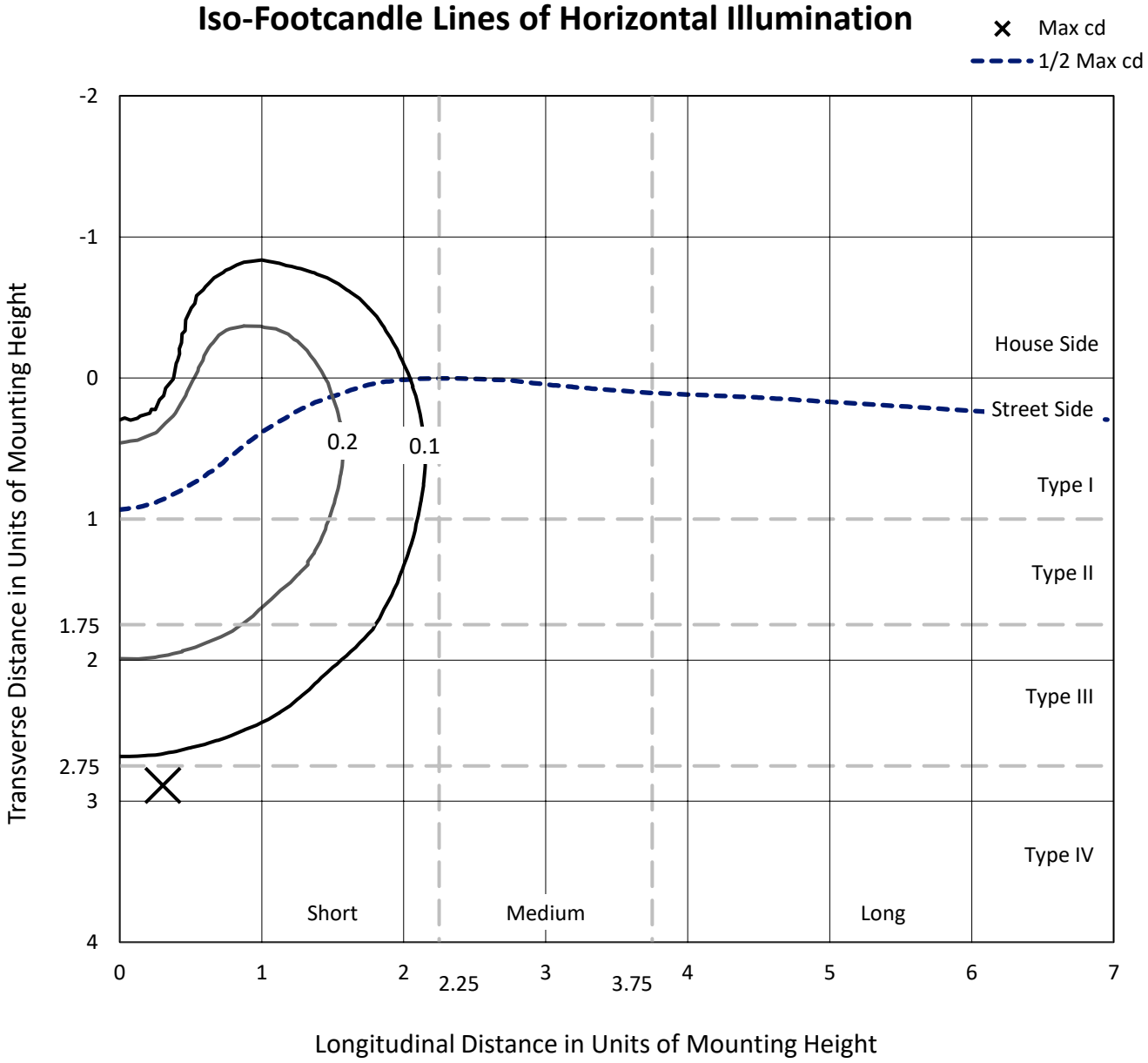


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Iso-Footcandle Lines of Horizontal Illumination



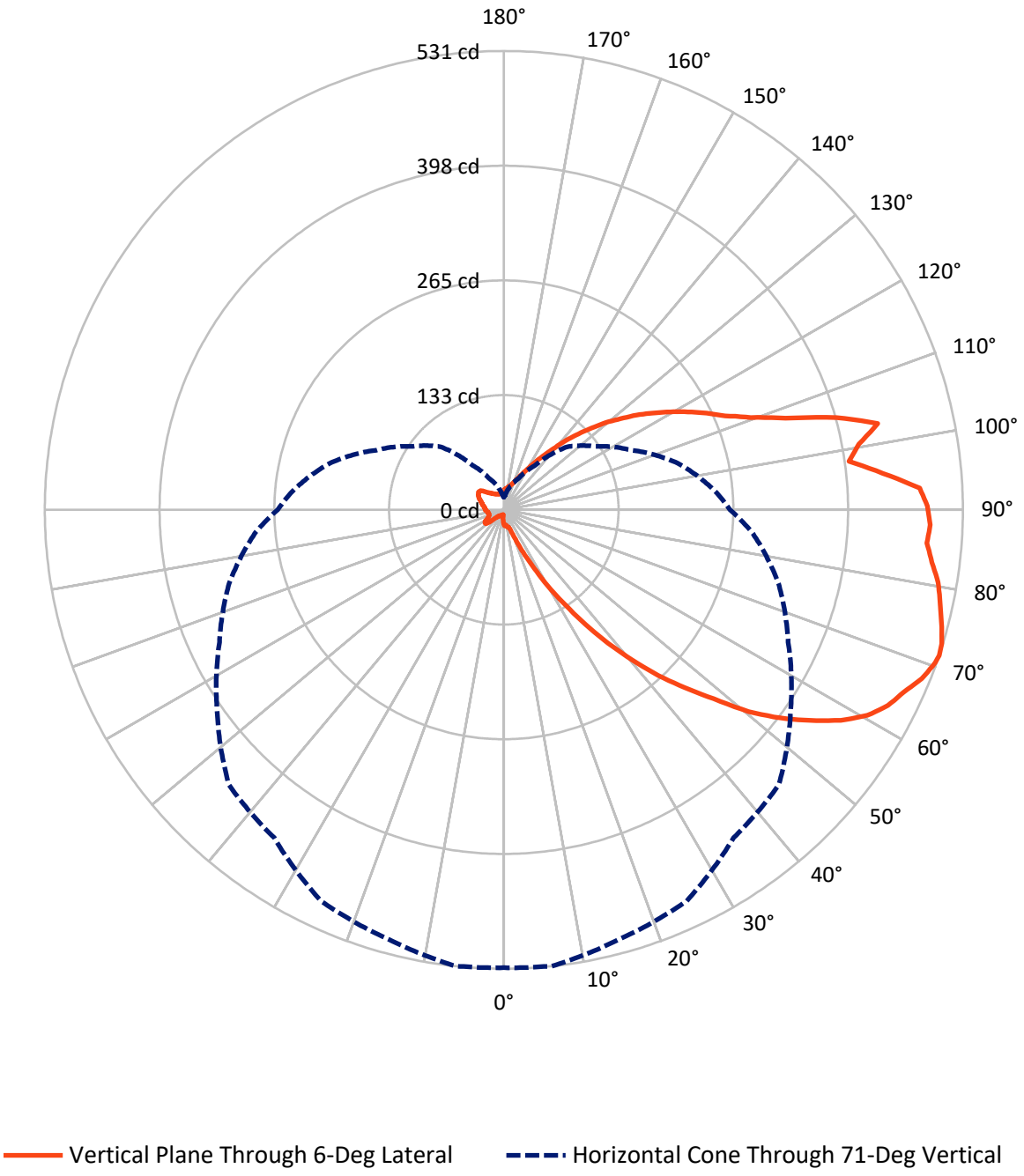
Based on 15 foot mounting height. Maximum calculated value = 0.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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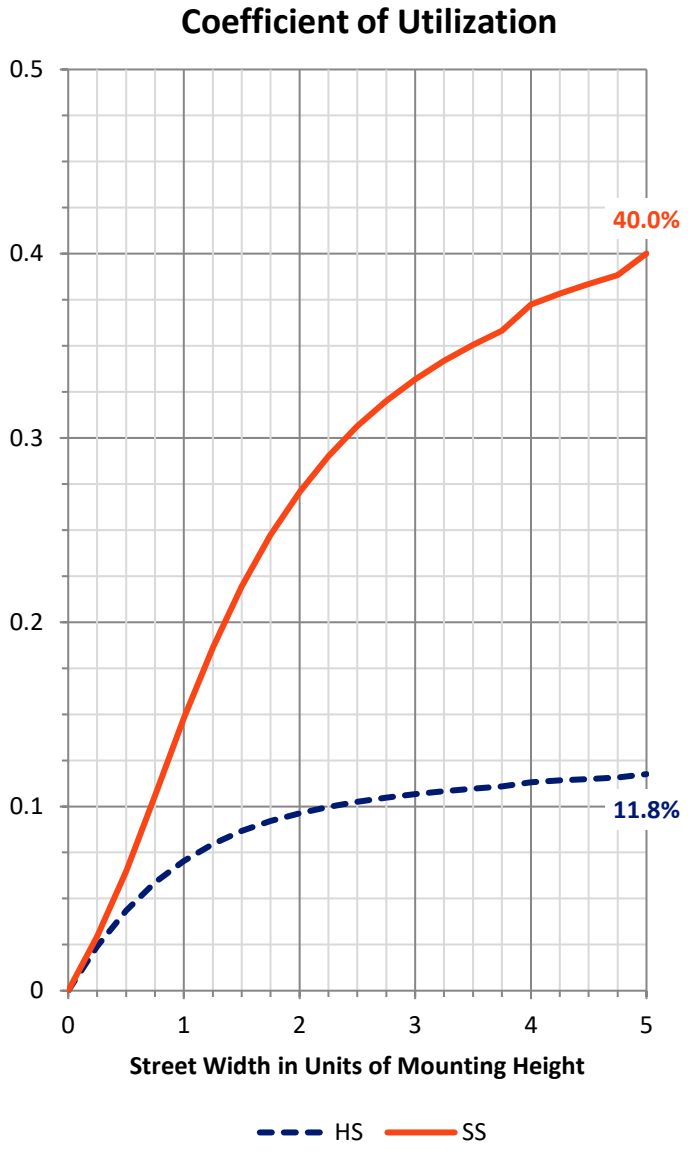
REPORT NUMBER: P1045974
CATALOG NUMBER: FFX-CLB-20-727-U-PG-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	271.3	215.1	486.4
	% Fixture	12.8	10.2	23.0
Street Side	Lumens	989.6	636.6	1626.1
	% Fixture	46.8	30.1	77.0
Total	Lumens	1260.8	851.7	2112.5
	% Fixture	59.7	40.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.1
10°-20°	4.4	0.2
20°-30°	20.1	0.9
30°-40°	67.1	3.2
40°-50°	136.7	6.5
50°-60°	210.3	10.0
60°-70°	261.7	12.4
70°-80°	279.9	13.2
80°-90°	279.4	13.2
90°-100°	252.5	12.0
100°-110°	220.8	10.5
110°-120°	150.5	7.1
120°-130°	106.3	5.0
130°-140°	64.4	3.1
140°-150°	32.7	1.5
150°-160°	15.2	0.7
160°-170°	7.0	0.3
170°-180°	2.2	0.1
0°-90°	1260.8	59.7
0°-180°	2112.5	100.0



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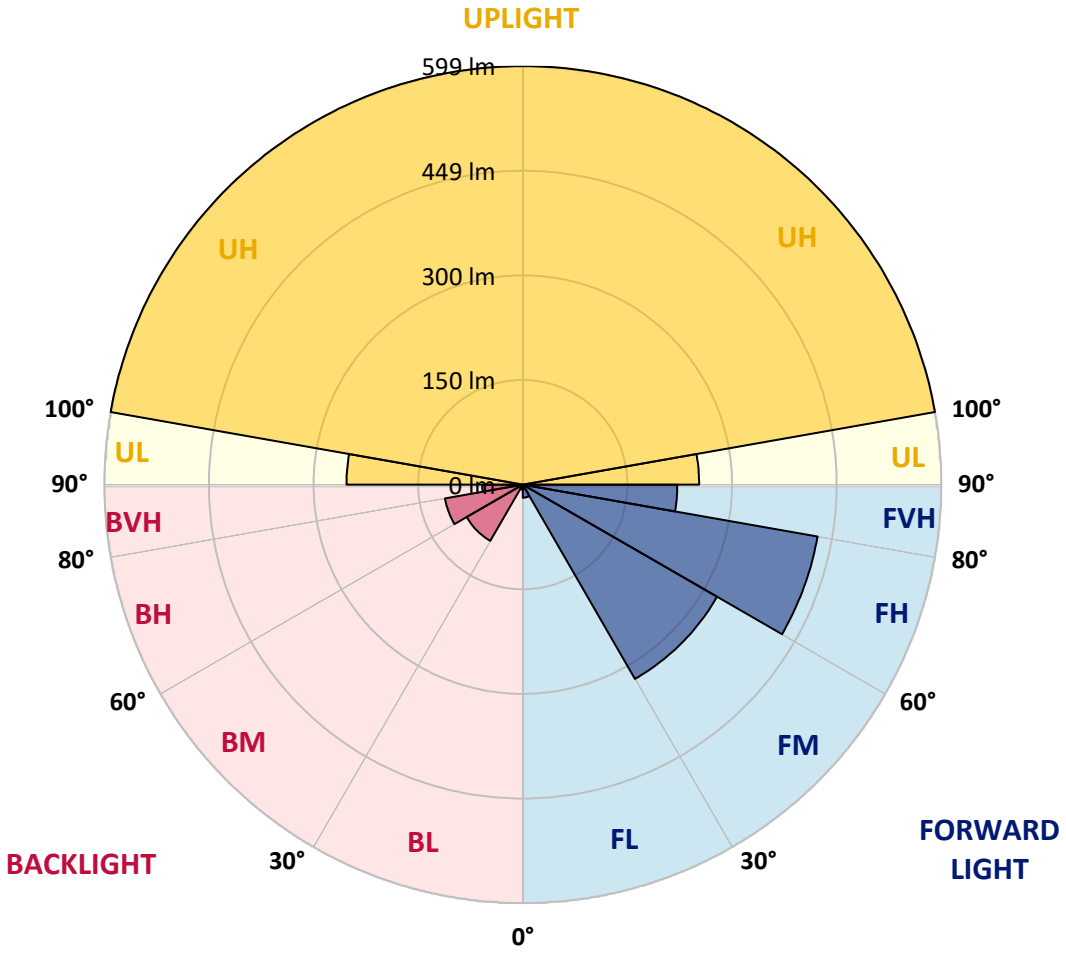
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	18.7	0.9			
FM	(30°-60°)	321.2	15.2			
FH	(60°-80°)	428.5	20.3			G0/660
FVH	(80°-90°)	221.2	10.5			G2/225
BL	(0°-30°)	7.2	0.3	B0/110		
BM	(30°-60°)	92.9	4.4	B0/220		
BH	(60°-80°)	113.1	5.4	B1/500		G1/500
BVH	(80°-90°)	58.1	2.8			G1/100
UL	(90°-100°)	252.5	12.0		U3/500	
UH	(100°-180°)	599.2	28.4		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17.2	17.2	*17.2*	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2.5°	18.6	18.6	*18.6*	18.6	18.6	18.6	18.4	17.9	17.7	17.4	17.2
5°	17.7	17.7	*17.7*	17.7	17.7	17.7	17.7	17.4	17.2	16.7	16.3
7.5°	17.7	17.7	*17.7*	17.7	17.4	17.2	17.0	16.7	16.5	15.6	14.7
10°	19.3	19.5	*19.3*	19.3	18.6	17.9	17.4	16.7	16.3	15.8	14.7
12.5°	20.4	20.4	*20.4*	20.2	19.7	19.3	18.4	17.2	16.3	15.4	14.5
15°	21.1	21.1	*21.1*	21.1	20.6	20.0	19.3	18.4	17.4	16.3	15.1
17.5°	23.9	23.9	*23.9*	23.6	23.2	22.7	22.3	21.8	21.1	20.0	18.8
20°	31.4	32.1	*31.9*	31.2	30.7	30.3	30.5	30.1	29.6	28.0	26.2
22.5°	43.6	44.5	*44.3*	44.5	43.8	43.4	43.1	43.6	42.7	40.4	36.9
25°	61.3	61.3	*60.6*	62.4	62.6	60.3	60.8	60.6	59.9	55.7	50.2
27.5°	81.0	80.5	*80.3*	83.3	83.7	82.8	83.7	82.1	79.8	75.2	68.4
30°	103.9	105.8	*106.7*	107.1	108.5	109.4	110.6	109.2	103.0	97.5	87.9
32.5°	133.1	131.9	*131.7*	136.5	139.0	139.3	142.0	138.1	131.2	120.9	108.3
35°	165.2	162.4	*162.9*	165.9	170.0	173.0	175.0	167.5	160.4	146.8	130.3
37.5°	195.5	195.7	*195.5*	196.6	204.4	205.3	205.8	197.3	187.0	173.0	152.3
40°	226.4	226.9	*228.0*	231.7	240.0	238.4	234.7	227.1	213.8	198.0	173.7
42.5°	258.3	261.3	*262.0*	263.8	269.6	269.1	262.9	254.4	239.0	219.3	192.0
45°	292.5	292.0	*293.2*	295.7	300.3	300.3	289.3	276.9	260.1	237.9	208.5
47.5°	324.8	328.3	*326.2*	332.4	330.1	331.7	312.9	297.8	279.4	253.0	222.3
50°	365.7	367.5	*366.8*	366.1	359.3	359.3	340.0	319.6	298.9	267.7	236.1
52.5°	400.3	401.0	*399.9*	397.1	387.5	384.3	361.5	337.9	316.1	284.9	249.4
55°	432.4	427.8	*429.9*	425.6	410.4	407.0	385.4	351.9	331.3	297.3	260.8
57.5°	456.1	458.6	*459.3*	449.9	434.7	420.7	406.3	368.7	342.7	309.0	268.4
60°	476.3	483.1	*482.7*	468.5	455.1	430.1	422.1	383.3	350.3	319.3	276.7
62.5°	491.4	498.7	*498.3*	486.8	474.9	439.8	430.8	392.1	354.9	324.6	282.9
65°	506.3	509.7	*508.1*	503.6	489.3	448.7	439.1	396.0	358.8	326.9	285.2
67.5°	521.4	521.2	*521.0*	514.6	499.2	457.0	445.7	401.7	362.7	329.4	286.8
70°	529.0	529.5	*529.2*	515.7	501.5	462.5	449.4	404.7	363.6	329.4	288.1
71°	*529.5*	*530.2*	*530.6*	*514.3*	*499.4*	*462.9*	*449.6*	*404.7*	*362.7*	*328.7*	*287.4*
72.5°	526.3	529.7	*529.2*	510.9	496.4	462.3	448.0	402.8	361.3	326.0	285.4
75°	519.2	525.3	*522.6*	504.0	488.9	457.7	443.7	401.0	357.9	322.3	283.5
77.5°	513.0	520.1	*515.5*	498.3	484.7	454.5	441.4	401.5	355.4	320.0	282.9
80°	508.8	512.7	*509.1*	494.8	481.3	450.8	439.8	401.7	354.7	318.9	280.8
82.5°	502.6	501.0	*498.5*	487.3	473.5	444.1	433.4	398.0	353.1	316.6	278.5
85°	497.1	490.5	*490.5*	480.4	466.4	438.9	425.8	393.7	350.3	314.3	275.7
87.5°	500.3	491.4	*493.2*	483.6	468.2	439.5	424.4	393.2	351.5	314.7	274.1
90°	497.1	488.6	*489.6*	479.5	461.6	432.4	414.1	384.0	344.1	308.3	268.4
92.5°	491.6	482.7	*481.3*	471.0	452.9	425.3	406.1	378.1	338.4	303.3	266.3
95°	449.2	442.8	*440.0*	432.7	418.7	394.6	379.4	352.6	313.1	281.0	249.1
97.5°	405.6	406.7	*402.8*	394.1	378.8	359.9	343.2	317.5	284.2	256.5	225.5
100°	422.8	421.2	*417.3*	405.6	389.5	368.4	348.7	323.9	291.6	266.6	232.4
102.5°	441.6	445.3	*443.7*	429.0	410.9	393.9	379.0	354.2	318.6	292.3	255.8
105°	390.2	397.6	*399.2*	387.7	374.4	360.2	347.1	329.7	298.9	271.8	243.2
107.5°	340.2	341.4	*342.5*	333.8	327.1	314.5	301.4	285.6	262.2	241.6	213.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
110°	305.6	306.7	*304.9*	301.2	294.3	284.7	270.2	259.2	238.8	221.4	195.9
112.5°	278.0	279.2	*277.8*	273.2	267.0	259.5	244.3	235.1	217.7	201.4	178.5
115°	260.4	261.8	*259.5*	254.6	249.4	245.2	232.2	218.6	202.8	188.3	168.6
117.5°	243.6	246.4	*241.1*	239.7	235.8	231.7	216.8	204.9	191.1	178.0	162.2
120°	225.3	227.6	*223.2*	221.6	219.3	215.2	201.2	190.4	179.4	167.7	152.6
122.5°	210.6	207.4	*205.3*	205.3	202.6	199.8	185.4	176.4	167.7	157.8	142.2
125°	193.8	189.5	*188.6*	190.2	186.7	183.1	171.6	163.6	156.9	147.1	131.7
127.5°	175.0	170.9	*170.9*	171.6	169.5	165.9	158.3	151.6	147.5	137.0	121.6
130°	157.4	155.1	*155.5*	153.9	151.9	148.9	143.4	138.6	135.1	124.6	113.6
132.5°	136.3	138.8	*138.8*	136.0	135.6	133.3	128.9	126.6	121.4	112.6	103.5
135°	121.4	123.4	*123.2*	120.7	120.4	119.1	115.9	113.8	108.7	101.4	93.8
137.5°	108.7	108.7	*108.3*	106.7	105.8	105.5	102.5	100.5	95.7	90.6	84.4
140°	96.4	94.3	*93.6*	93.8	92.5	92.2	89.7	87.2	84.9	80.1	75.0
142.5°	83.5	82.1	*81.4*	80.5	80.1	79.4	77.8	75.7	73.4	70.2	65.6
145°	71.3	71.3	*70.9*	70.0	70.0	69.1	67.4	66.3	64.2	60.8	57.1
147.5°	61.9	61.3	*61.3*	61.0	60.3	59.9	58.5	56.9	55.5	52.8	49.3
150°	53.2	53.2	*52.8*	53.2	52.8	52.1	51.2	49.8	48.2	46.1	43.4
152.5°	46.3	46.6	*46.1*	46.8	46.3	45.9	44.7	43.8	42.0	40.1	38.3
155°	41.3	41.5	*41.3*	41.1	41.1	40.4	39.9	38.5	37.4	35.8	34.2
157.5°	36.7	36.9	*36.9*	36.9	36.9	36.2	35.3	34.4	33.5	32.1	30.7
160°	33.7	33.5	*33.5*	33.3	33.0	32.8	32.1	31.2	30.5	29.4	28.2
162.5°	30.7	30.7	*30.7*	30.5	30.3	30.1	29.6	28.7	28.0	27.1	26.2
165°	28.7	28.7	*28.7*	28.7	28.2	28.0	27.5	26.8	26.4	25.5	24.5
167.5°	27.3	27.3	*27.3*	27.1	26.8	26.6	26.4	25.7	25.2	24.5	23.9
170°	26.2	26.2	*26.2*	26.2	25.9	25.5	25.2	24.8	24.3	23.9	23.2
172.5°	25.0	25.0	*25.0*	25.0	24.8	24.8	24.5	24.1	23.9	23.2	22.9
175°	24.1	24.1	*24.1*	24.1	23.9	23.9	23.6	23.4	23.2	22.9	22.5
177.5°	23.4	23.4	*23.4*	23.4	23.2	23.2	23.2	22.9	22.7	22.5	22.5
180°	22.5	22.5	*22.5*	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2.5°	17.2	17.2	16.7	16.5	16.3	15.8	15.4	14.7	14.7	14.7	14.5
5°	16.1	15.8	15.4	14.7	14.5	14.2	13.8	12.8	11.7	10.8	10.8
7.5°	14.9	13.8	12.6	12.2	11.5	10.3	9.2	7.8	6.2	6.0	6.0
10°	14.0	13.3	11.9	10.8	9.6	9.4	8.5	7.1	6.4	5.7	5.7
12.5°	13.8	13.3	11.7	10.3	8.9	8.3	7.6	6.9	6.2	5.7	5.7
15°	14.5	14.0	12.4	10.8	9.2	8.3	7.3	6.7	6.4	6.2	6.2
17.5°	18.1	17.4	15.1	12.6	10.6	9.2	8.0	7.3	7.1	6.9	6.9
20°	24.5	23.4	20.2	16.7	13.5	10.6	8.9	7.8	7.6	7.3	7.3
22.5°	34.9	32.8	27.3	22.0	17.2	13.3	10.3	8.3	7.6	7.3	7.3
25°	47.5	44.7	36.7	28.9	21.8	17.0	12.6	9.4	7.6	7.1	7.1
27.5°	64.2	59.4	48.6	38.8	29.1	21.6	15.8	11.2	8.3	7.1	6.9
30°	81.9	75.9	62.2	49.1	36.9	27.1	19.5	13.5	9.4	7.1	6.9
32.5°	101.2	93.1	78.0	61.7	45.9	33.5	23.9	15.8	10.8	7.6	7.1
35°	120.9	112.0	93.1	75.0	55.1	39.9	28.4	18.4	11.7	8.0	7.6
37.5°	140.9	130.8	110.3	86.9	64.0	46.6	33.0	21.1	12.6	8.5	8.0
40°	160.8	148.7	126.2	98.2	72.7	53.2	37.4	23.4	13.3	9.2	8.9
42.5°	176.4	164.0	139.3	107.6	81.9	59.2	41.8	25.2	14.0	10.3	9.9
45°	190.6	177.6	150.3	116.1	89.0	66.3	46.8	28.2	15.4	11.7	11.2
47.5°	205.1	192.2	161.7	124.3	95.9	73.4	52.8	31.4	19.0	15.1	14.9
50°	217.7	203.5	174.1	135.6	104.6	80.1	59.0	35.3	22.5	22.0	22.3
52.5°	229.9	215.6	184.7	143.8	110.6	88.1	64.9	36.9	25.5	25.9	26.4
55°	243.4	226.9	193.2	150.3	114.0	93.4	68.4	38.3	28.2	26.4	25.9
57.5°	252.6	233.5	200.0	157.4	117.7	96.6	68.6	39.9	30.5	25.5	24.8
60°	258.8	237.2	203.7	161.3	122.7	99.6	67.9	40.1	31.9	23.4	21.3
62.5°	262.9	242.0	206.9	162.2	126.6	101.9	67.7	39.2	31.4	20.9	19.3
65°	264.7	246.2	209.9	162.7	127.3	103.5	67.7	38.8	30.7	18.4	16.5
67.5°	264.7	247.5	211.1	163.6	126.9	103.9	65.6	40.1	29.8	17.4	15.1
70°	263.4	246.8	209.4	163.3	127.8	103.5	63.3	40.1	28.4	17.4	14.5
71°	*261.5*	*245.5*	*208.3*	*163.1*	*128.0*	*103.0*	*62.4*	*39.9*	*27.8*	*17.0*	*14.7*
72.5°	259.0	243.4	206.2	162.7	127.3	101.6	60.6	40.1	27.1	16.7	14.9
75°	256.2	241.8	204.6	160.8	127.1	99.6	57.4	39.5	26.8	17.0	15.4
77.5°	255.3	242.0	203.7	160.4	127.1	98.4	55.1	39.0	26.4	17.2	16.3
80°	253.3	241.6	201.9	159.2	126.6	96.4	54.4	39.0	25.9	17.4	16.7
82.5°	251.2	240.4	200.3	158.1	125.9	93.6	53.7	38.8	25.5	18.1	17.7
85°	249.4	240.2	200.3	157.4	125.7	92.0	53.5	38.5	25.2	18.8	18.4
87.5°	249.4	241.3	202.3	159.2	127.8	92.0	54.4	39.0	25.5	19.7	19.5
90°	244.8	236.3	199.1	158.1	128.5	92.2	55.3	40.1	26.4	20.6	20.2
92.5°	243.4	234.0	198.2	159.2	129.4	92.2	56.4	41.3	27.1	21.1	20.6
95°	228.3	217.7	186.5	151.2	123.7	89.7	56.9	41.1	27.5	21.3	21.1
97.5°	207.2	195.7	166.3	134.4	109.4	80.5	51.8	38.5	27.3	22.0	21.6
100°	214.3	200.7	170.0	136.7	107.6	78.9	50.9	37.4	28.0	22.9	22.5
102.5°	234.0	219.3	187.0	151.4	117.2	87.2	56.9	39.7	29.4	24.1	23.4
105°	222.3	206.0	180.5	146.6	114.2	87.2	57.1	40.4	30.7	25.0	24.5
107.5°	196.4	181.2	159.0	130.5	104.6	80.5	54.1	39.2	31.9	26.2	25.5

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

Scaled Data Report

REPORT NUMBER: P1045974
CATALOG NUMBER: FFX-CLB-20-727-U-PG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	181.5	165.2	144.8	119.1	97.3	74.8	52.1	38.5	32.6	27.5	26.6
112.5°	165.6	151.6	131.9	109.4	90.6	69.1	50.7	38.3	33.0	28.9	28.0
115°	156.7	142.2	125.3	103.5	86.3	67.2	50.2	39.5	34.6	30.7	29.8
117.5°	148.9	137.0	121.8	98.9	83.3	66.5	51.2	40.8	35.8	32.3	31.2
120°	140.9	129.8	116.1	95.2	80.8	64.2	51.4	41.5	36.7	33.7	33.0
122.5°	136.0	123.7	110.1	92.0	77.8	62.6	51.2	42.4	36.9	34.4	34.4
125°	127.1	117.2	103.7	87.9	73.4	61.7	51.2	42.0	37.6	35.3	34.9
127.5°	117.2	110.8	97.3	83.3	70.4	59.4	49.8	42.0	37.4	35.3	35.3
130°	108.1	102.3	91.3	77.1	67.7	56.2	47.7	39.9	36.0	34.6	34.6
132.5°	97.7	94.1	83.7	71.1	62.2	52.3	45.0	36.9	33.7	32.6	32.6
135°	88.3	84.9	75.2	64.7	56.7	48.6	41.8	34.9	31.0	29.6	29.6
137.5°	79.6	76.4	67.9	59.0	51.6	45.0	38.5	32.8	28.9	27.3	27.5
140°	70.7	66.8	61.0	53.5	46.8	41.5	35.3	30.7	27.1	25.7	25.5
142.5°	62.6	59.6	54.4	47.9	42.2	38.1	32.6	28.7	25.7	24.3	24.1
145°	55.3	52.8	48.2	42.9	38.3	34.4	30.1	26.8	24.3	23.2	22.9
147.5°	47.5	45.9	42.4	38.3	34.4	31.0	28.0	25.0	23.4	22.0	21.8
150°	41.8	40.6	37.9	34.4	31.4	28.7	26.4	23.6	22.3	21.3	21.1
152.5°	37.2	36.0	33.7	31.2	28.7	26.6	24.5	22.7	21.3	20.6	20.4
155°	33.3	32.3	30.5	28.4	26.4	24.5	22.9	21.6	20.6	20.0	20.0
157.5°	30.3	29.4	28.0	26.2	24.5	22.9	21.8	20.6	20.2	19.5	19.5
160°	27.8	27.1	25.9	24.3	22.9	21.8	20.9	20.0	19.7	19.3	19.3
162.5°	25.7	25.2	24.1	22.9	22.0	21.1	20.4	19.7	19.3	19.0	19.0
165°	24.3	23.9	23.2	22.3	21.3	20.6	20.2	19.5	19.3	19.3	19.0
167.5°	23.6	23.2	22.5	21.6	20.9	20.6	20.2	19.7	19.5	19.5	19.3
170°	22.9	22.7	22.3	21.6	20.9	20.6	20.4	20.0	20.0	19.7	19.7
172.5°	22.7	22.5	22.0	21.6	21.1	20.9	20.6	20.4	20.4	20.4	20.2
175°	22.5	22.5	22.0	21.6	21.3	21.3	21.1	20.9	20.9	20.9	20.9
177.5°	22.5	22.3	22.3	22.0	21.8	21.8	21.8	21.6	21.6	21.6	21.6
180°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5

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: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

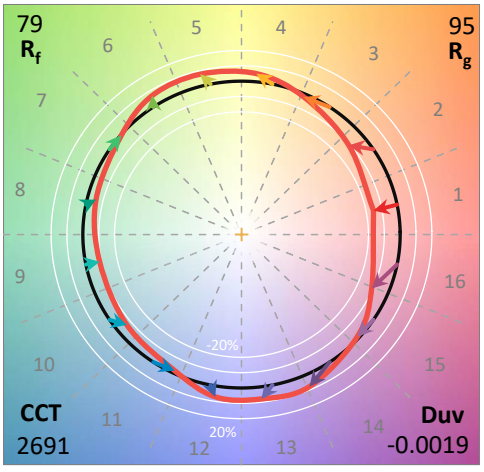
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

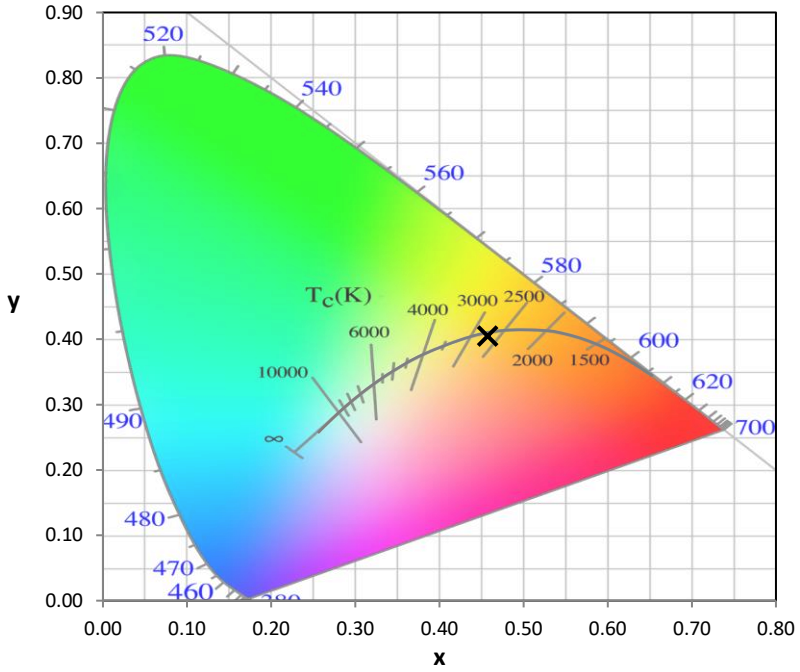
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

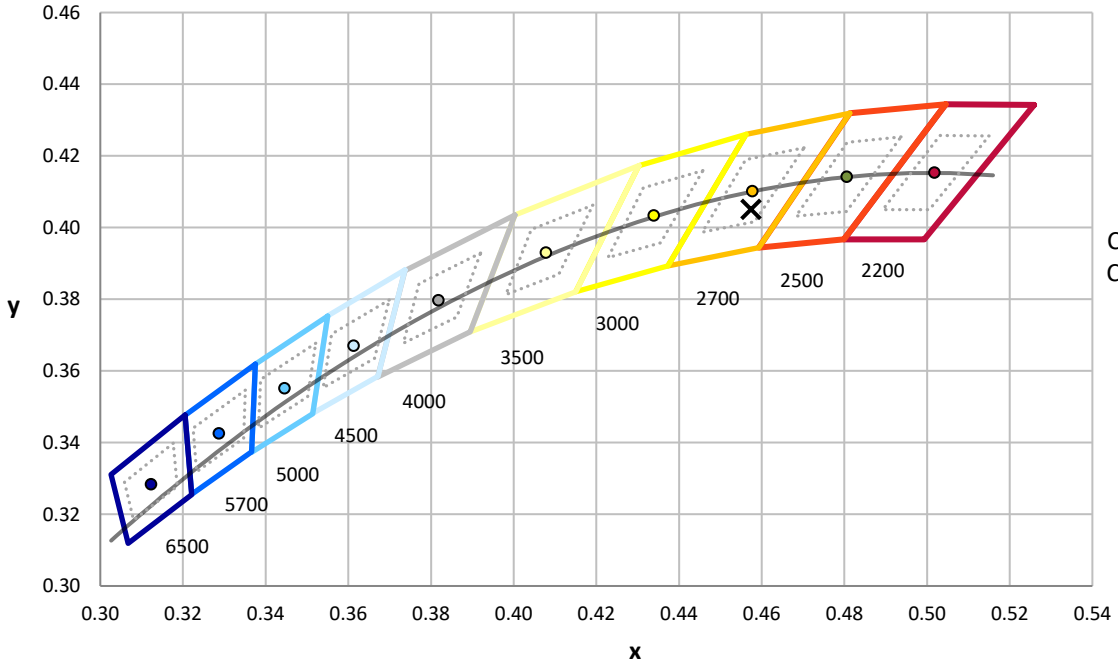
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



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

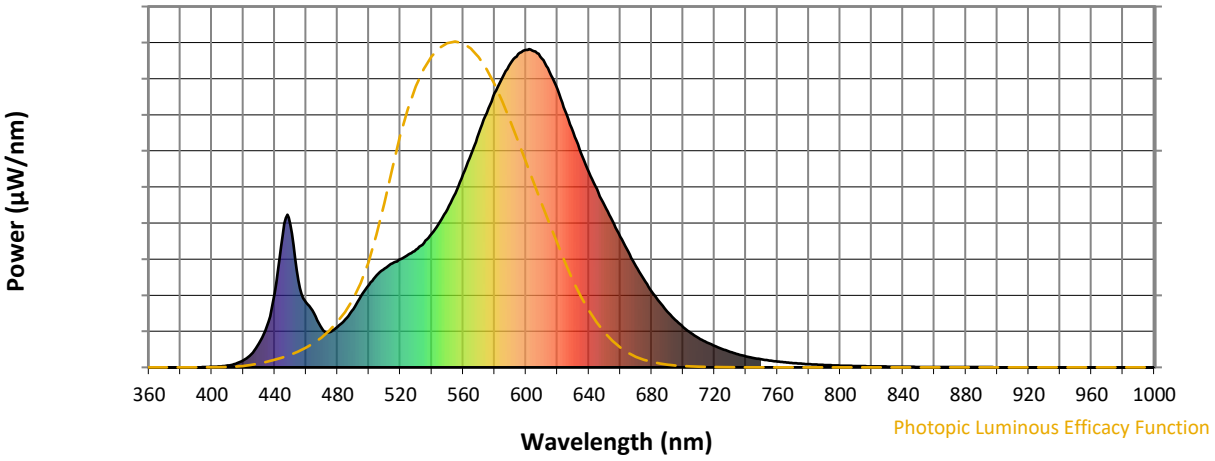


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

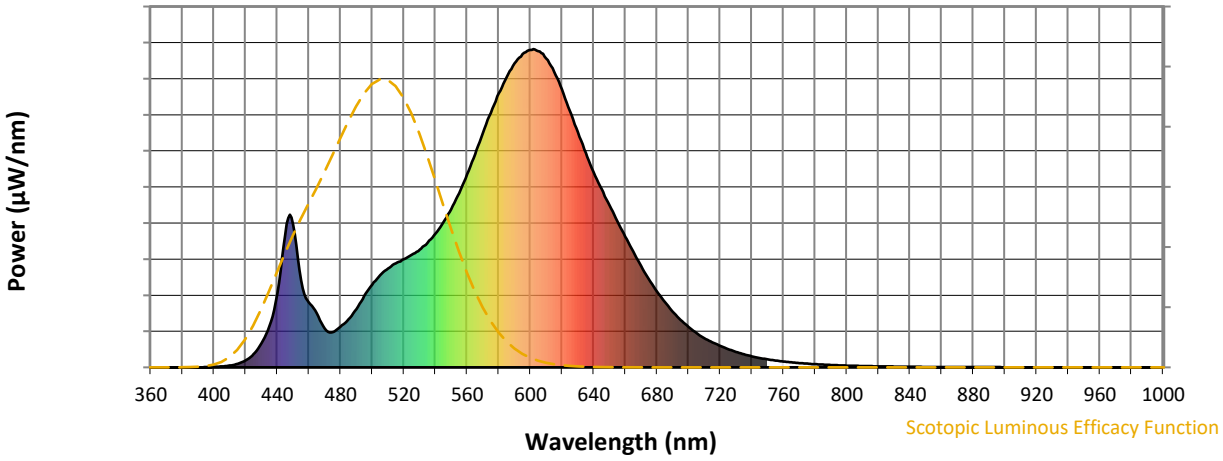


Photopic Lumens: NR

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

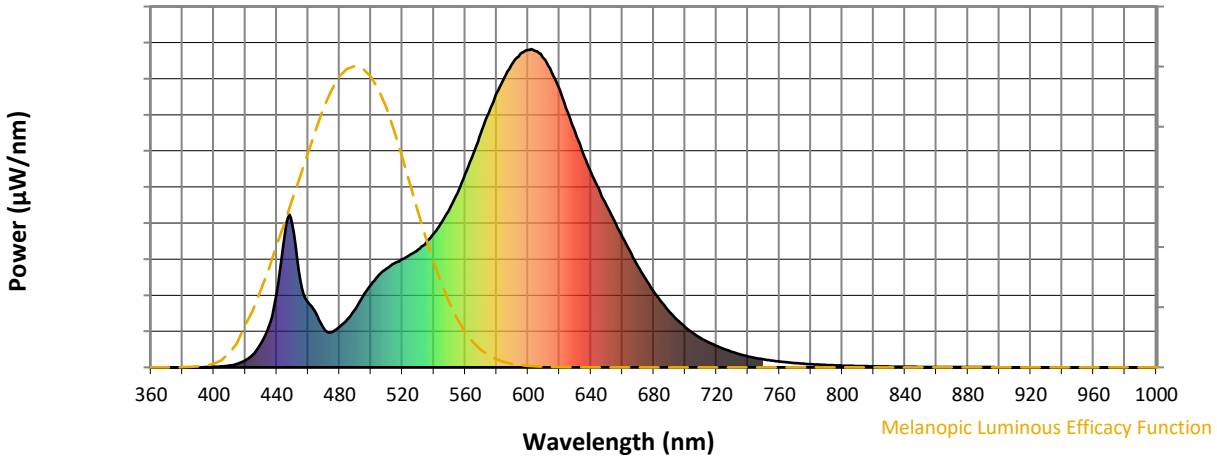


Scotopic Lumens: NR **S/P: 1.18**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

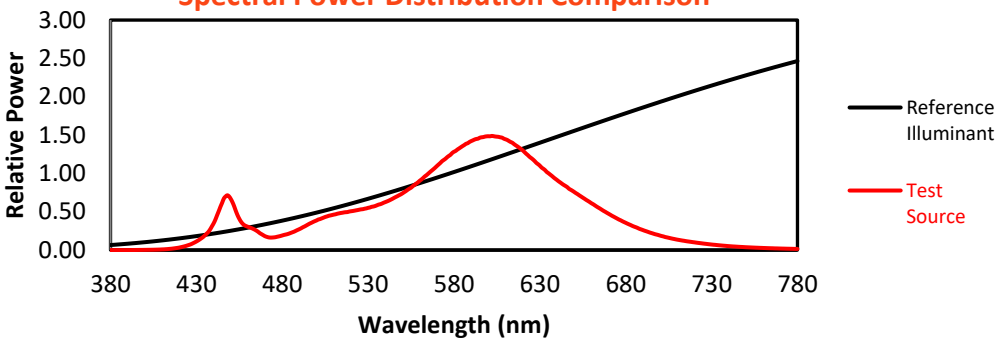
REPORT NUMBER: SP1-2501-332-8

TM-30-18

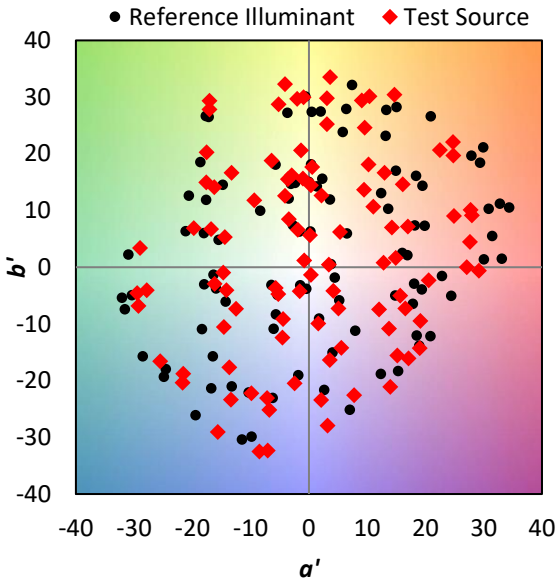
Summary

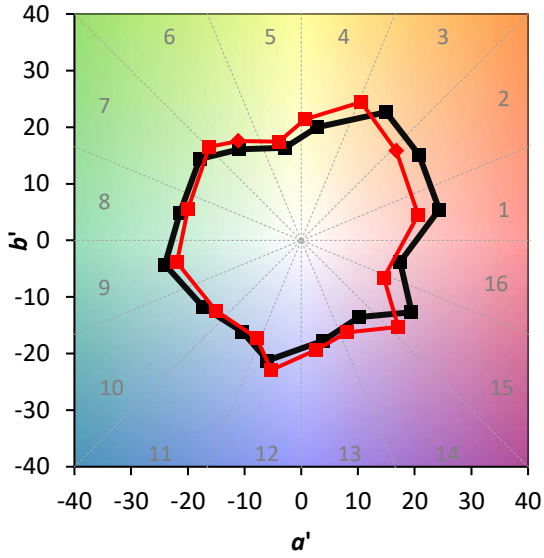
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

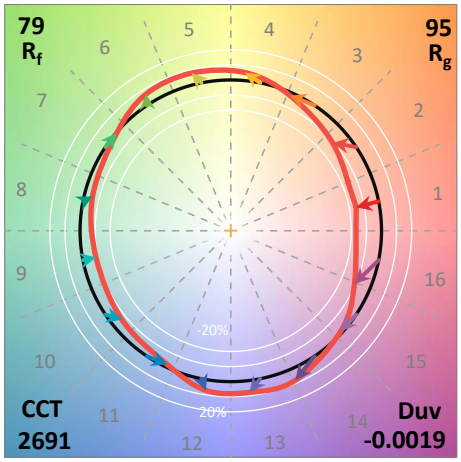
Spectral Power Distribution Comparison

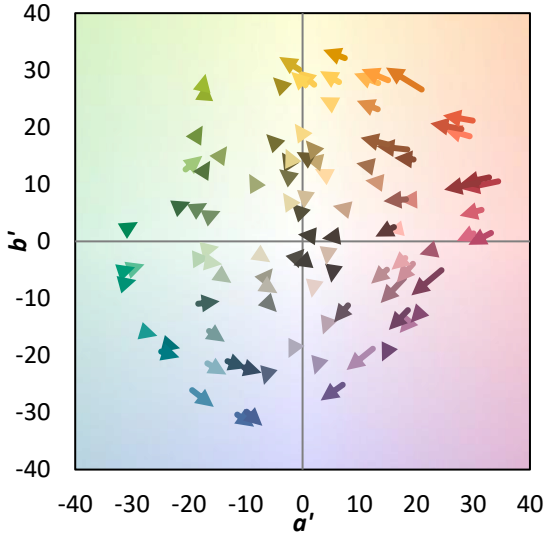


Color Vector Graphics







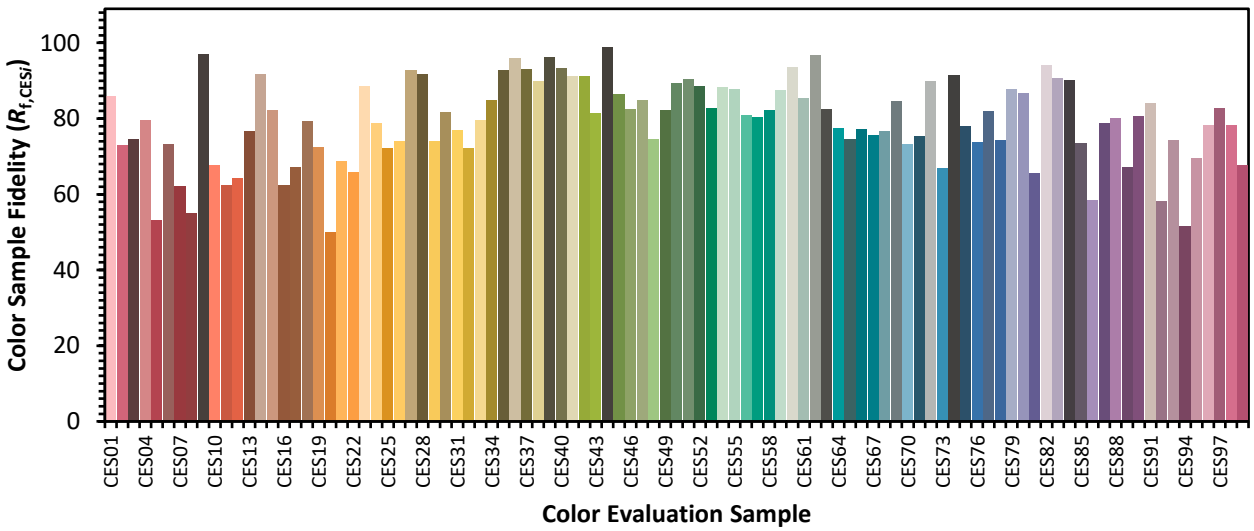


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

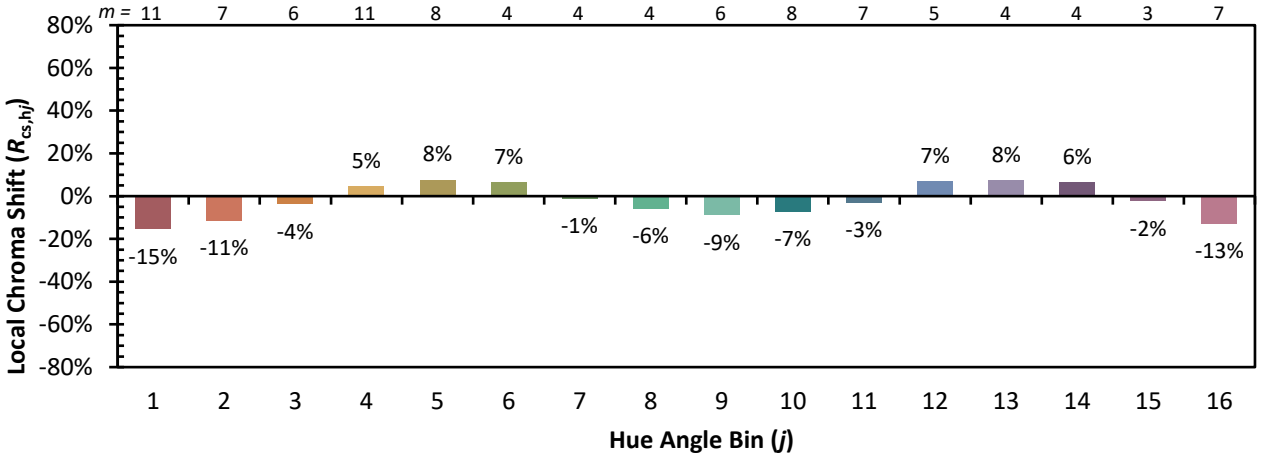
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 82	CES83 = 91
CES09 = 29	CES34 = 85	CES59 = 88	CES84 = 90
CES10 = 77	CES35 = 93	CES60 = 94	CES85 = 73
CES11 = 60	CES36 = 96	CES61 = 85	CES86 = 58
CES12 = 66	CES37 = 93	CES62 = 97	CES87 = 79
CES13 = 44	CES38 = 90	CES63 = 83	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 77	CES89 = 67
CES15 = 72	CES40 = 93	CES65 = 75	CES90 = 81
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 84
CES17 = 51	CES42 = 91	CES67 = 76	CES92 = 58
CES18 = 57	CES43 = 82	CES68 = 77	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 85	CES94 = 52
CES20 = 67	CES45 = 86	CES70 = 73	CES95 = 70
CES21 = 87	CES46 = 83	CES71 = 75	CES96 = 78
CES22 = 80	CES47 = 85	CES72 = 90	CES97 = 83
CES23 = 92	CES48 = 74	CES73 = 67	CES98 = 78
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 68
CES25 = 73	CES50 = 89	CES75 = 78	

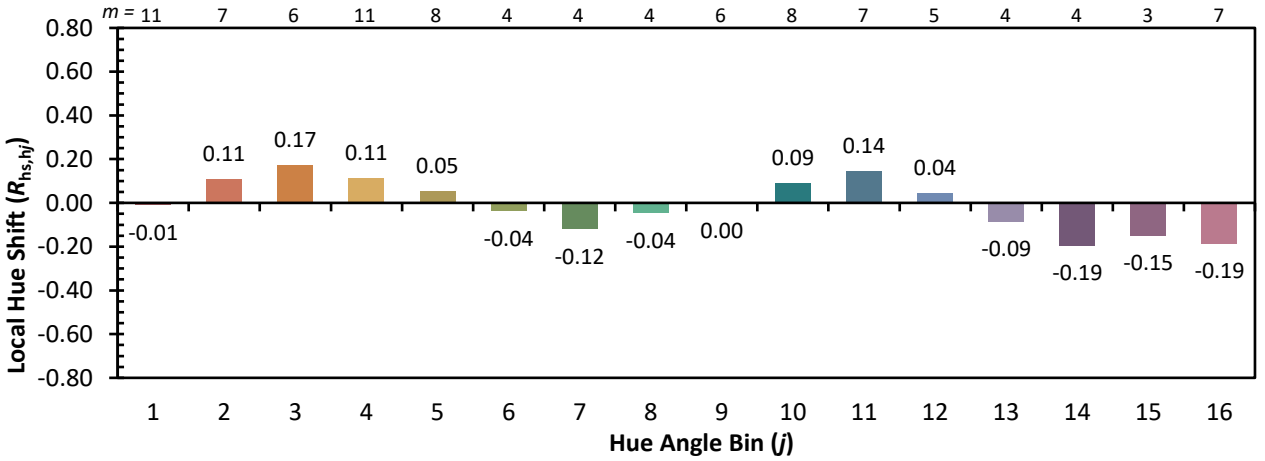


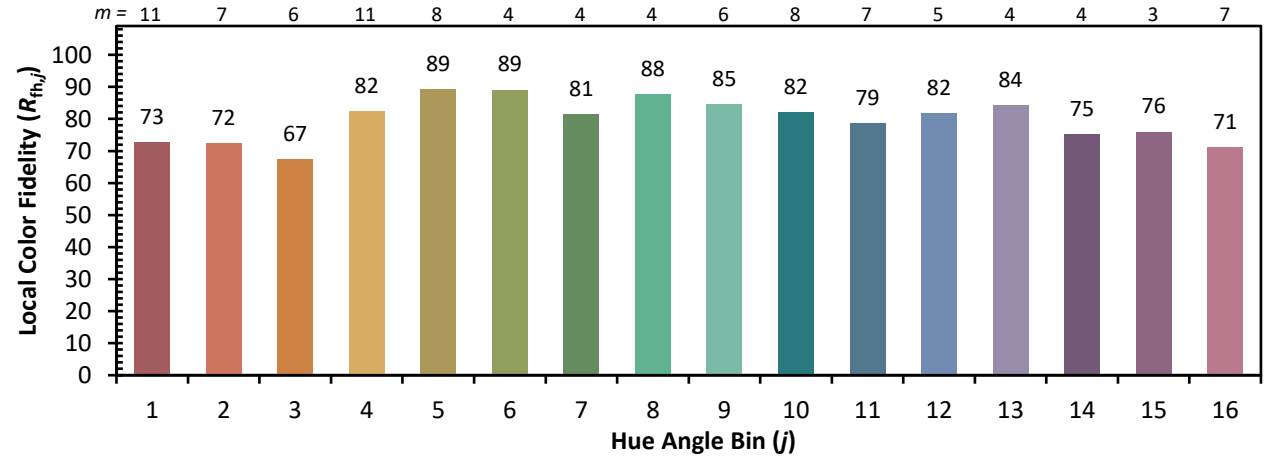
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Color Rendition by Hue-Angle Bin



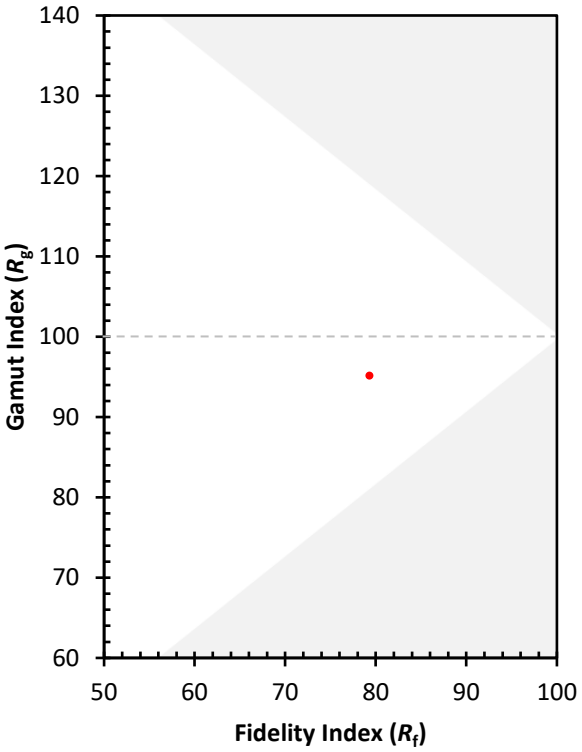


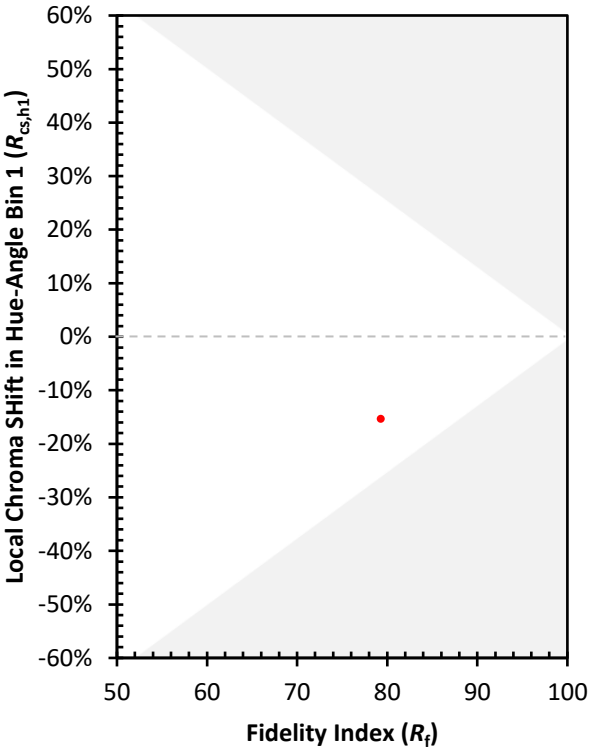


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Measure Comparisons





(END OF REPORT)