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: P1045884

Luminaire Tested: **FFX-CLB-20-727-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:	P1045884
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-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2085.3 lumens
Efficiency:	N/A
Efficacy:	105.3 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

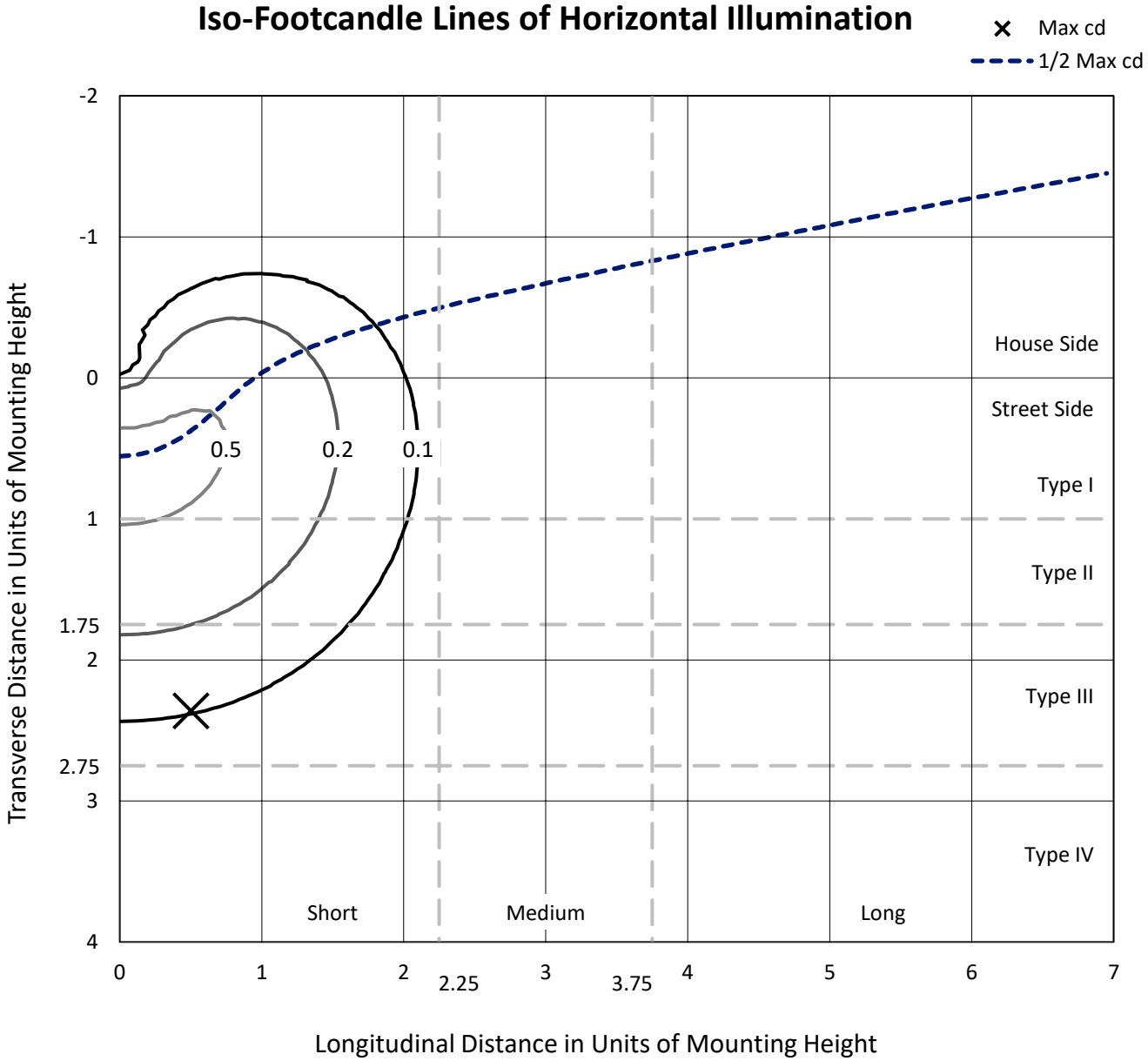


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Iso-Footcandle Lines of Horizontal Illumination



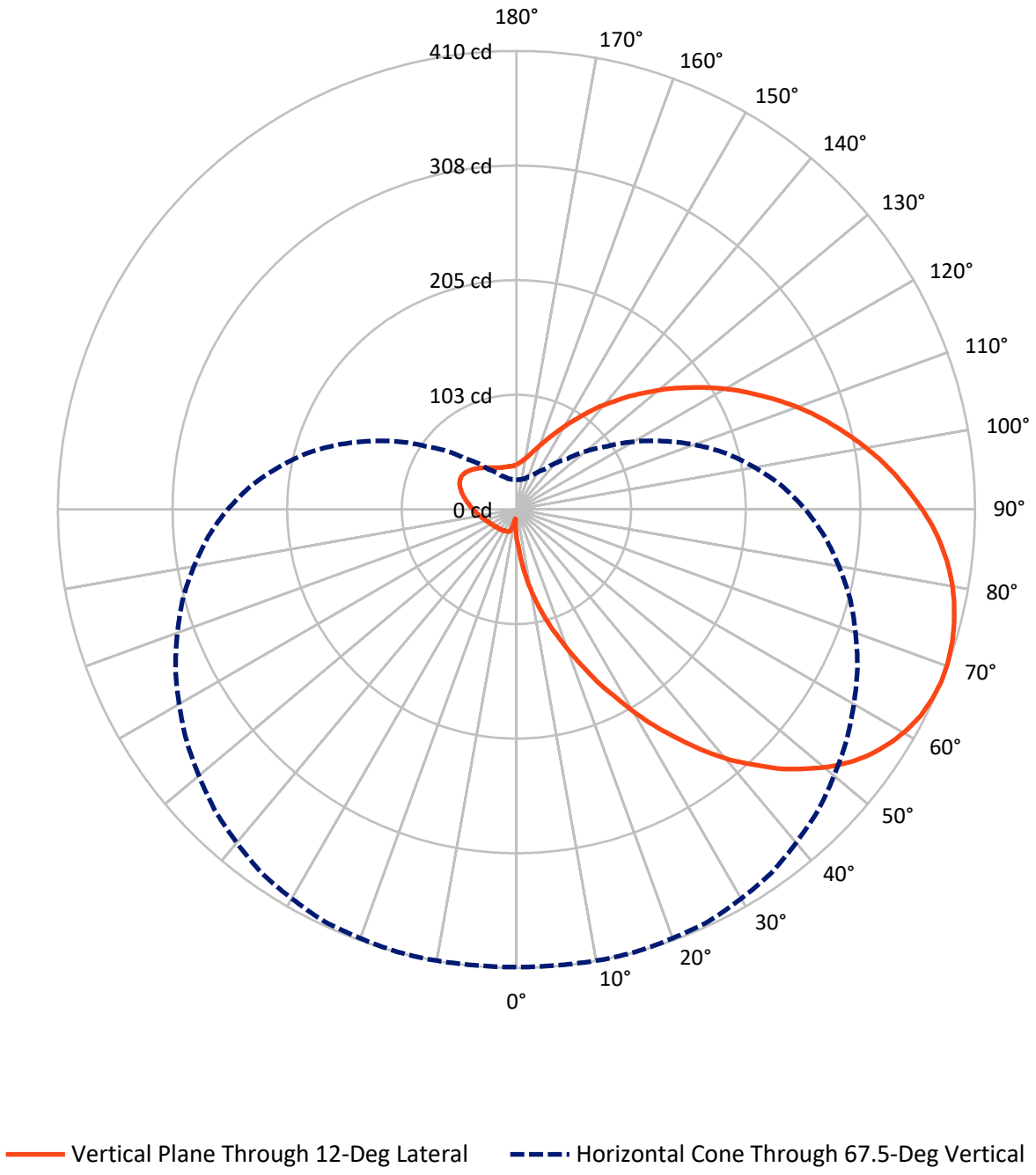
Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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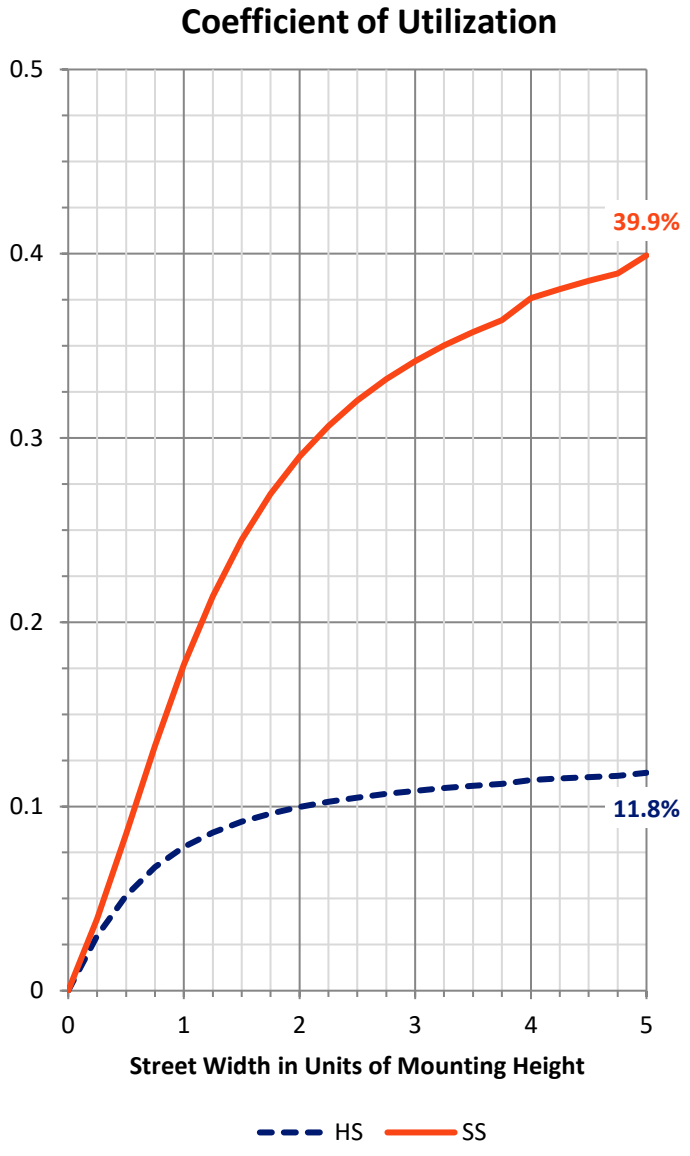
REPORT NUMBER: P1045884
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	268.3	259.7	528.1
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	948.8	608.4	1557.2
	% Fixture	45.5	29.2	74.7
Total	Lumens	1217.1	868.1	2085.3
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.2
10°-20°	18.6	0.9
20°-30°	48.4	2.3
30°-40°	93.9	4.5
40°-50°	147.5	7.1
50°-60°	195.7	9.4
60°-70°	228.1	10.9
70°-80°	242.4	11.6
80°-90°	239.3	11.5
90°-100°	220.6	10.6
100°-110°	192.6	9.2
110°-120°	158.3	7.6
120°-130°	119.9	5.7
130°-140°	81.9	3.9
140°-150°	50.2	2.4
150°-160°	27.5	1.3
160°-170°	13.3	0.6
170°-180°	3.9	0.2
0°-90°	1217.1	58.4
0°-180°	2085.3	100.0



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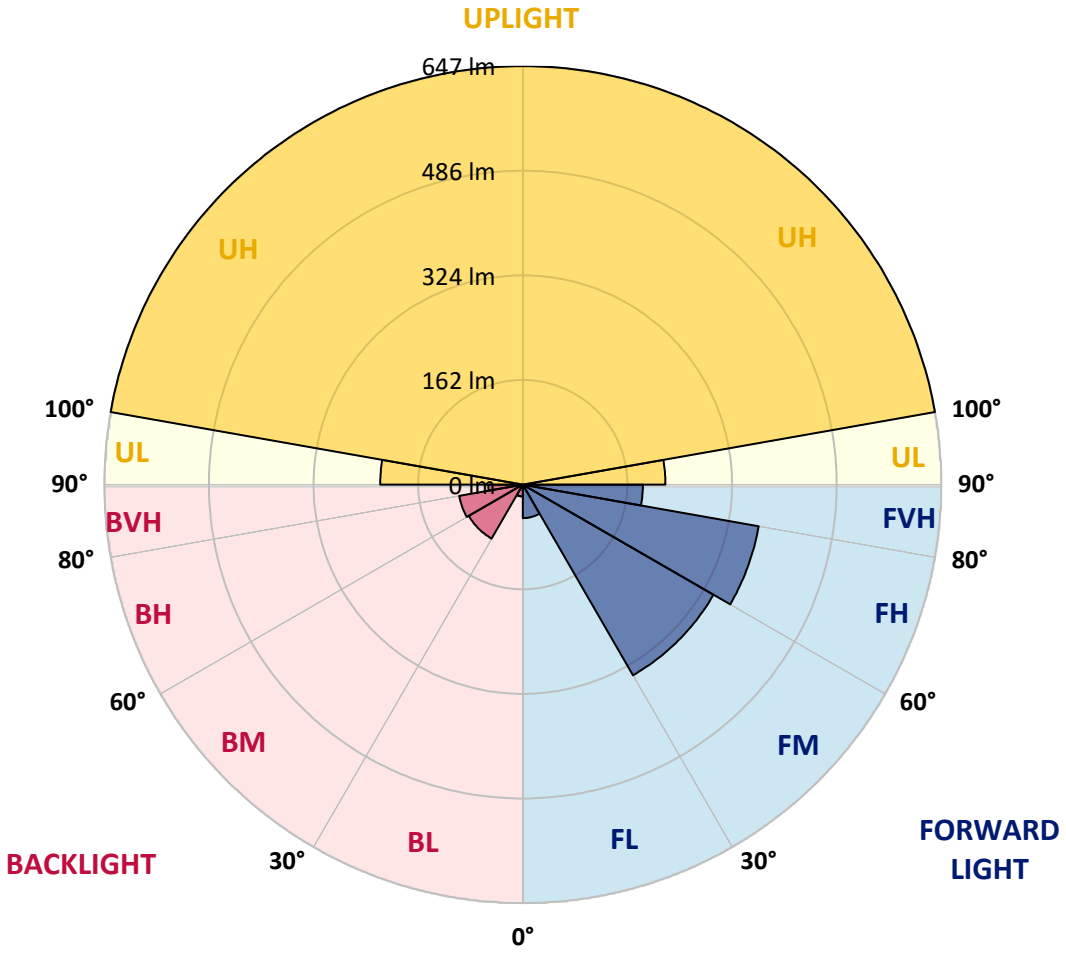
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	51.8	2.5			
FM	(30°-60°)	340.7	16.3			
FH	(60°-80°)	370.6	17.8			G0/660
FVH	(80°-90°)	185.7	8.9			G2/225
BL	(0°-30°)	18.4	0.9	B0/110		
BM	(30°-60°)	96.5	4.6	B0/220		
BH	(60°-80°)	99.9	4.8	B0/110		G0/110
BVH	(80°-90°)	53.6	2.6			G1/100
UL	(90°-100°)	220.6	10.6		U3/500	
UH	(100°-180°)	647.5	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°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
2.5°	33.0	33.7	33.0	34.0	33.5	33.5	32.3	31.2	29.6	27.8	26.2
5°	46.8	46.6	45.7	46.6	45.7	44.5	42.7	39.7	36.7	34.0	30.5
7.5°	61.0	61.2	60.6	60.3	58.3	56.7	53.7	50.7	47.0	42.9	38.8
10°	76.4	75.9	74.8	75.0	72.7	69.5	66.1	62.6	58.5	53.7	48.4
12.5°	90.6	90.6	89.7	89.9	87.4	83.7	81.0	76.4	71.3	65.6	59.2
15°	105.8	104.8	104.4	104.4	101.9	98.6	95.7	90.6	84.6	78.2	70.9
17.5°	119.7	119.5	119.1	119.3	117.0	114.2	109.4	104.4	97.3	89.5	81.9
20°	137.6	136.7	136.0	134.9	133.5	129.8	125.3	118.6	111.5	103.0	92.9
22.5°	153.9	155.1	153.2	152.3	150.5	147.5	140.9	134.4	125.9	116.1	105.1
25°	172.7	173.7	173.0	171.8	169.3	165.2	159.0	151.9	141.8	130.5	117.5
27.5°	192.5	193.2	191.3	191.8	187.4	183.5	177.3	168.6	159.0	145.7	131.9
30°	212.0	213.3	212.7	211.0	207.4	203.9	196.6	187.4	176.4	161.7	145.9
32.5°	234.9	233.3	233.5	231.7	229.4	223.9	217.5	207.1	194.3	178.7	160.6
35°	256.2	255.5	253.7	254.6	250.7	245.7	237.7	226.6	212.7	195.4	175.5
37.5°	275.3	276.0	274.8	274.1	271.6	265.9	256.5	245.2	229.2	211.0	189.3
40°	294.8	295.2	295.0	295.0	291.6	285.1	275.5	262.9	246.4	226.9	203.2
42.5°	313.4	313.8	312.7	312.9	310.1	303.5	293.2	279.9	261.5	241.1	215.4
45°	331.3	331.3	331.3	331.0	327.1	320.9	310.4	295.2	276.9	253.7	226.6
47.5°	347.8	347.3	347.1	347.1	344.6	337.2	326.0	309.5	289.5	265.2	237.7
50°	362.4	362.7	362.4	362.0	358.1	352.1	339.5	322.3	301.2	276.2	246.8
52.5°	375.1	375.3	375.5	374.4	371.9	364.7	350.8	332.4	311.1	284.9	254.4
55°	385.2	385.6	386.1	385.6	383.1	374.6	360.6	342.0	319.1	292.3	261.1
57.5°	394.6	394.3	394.6	394.1	391.4	383.1	368.6	348.7	325.5	298.2	266.1
60°	401.0	401.2	401.2	401.2	398.0	389.5	374.1	353.7	330.1	302.8	270.5
62.5°	405.3	405.6	406.3	405.8	402.8	393.9	378.0	357.4	333.5	305.8	273.4
65°	408.3	408.6	409.0	408.6	405.8	396.6	380.6	359.7	335.8	308.1	275.5
67.5°	409.7	409.7	410.4	410.2	407.0	397.5	381.5	360.6	336.8	309.2	276.9
70°	409.0	409.2	409.7	409.5	406.3	396.9	380.8	360.2	336.5	309.2	277.1
72.5°	407.4	407.4	407.9	407.4	404.4	395.0	379.2	358.8	335.4	308.8	276.9
75°	404.2	404.4	404.7	404.4	401.2	392.0	376.4	356.3	333.5	307.2	276.0
77.5°	400.3	400.5	400.5	400.5	397.1	387.9	372.8	353.0	331.0	305.3	274.4
80°	394.6	394.8	395.3	394.8	391.4	383.1	368.0	349.1	327.8	302.3	272.3
82.5°	388.1	387.9	388.6	388.4	384.9	376.7	361.8	343.9	323.0	298.9	269.3
85°	380.1	380.1	380.6	380.1	377.1	368.4	354.4	337.4	317.5	293.9	265.6
87.5°	371.2	371.2	371.6	370.7	367.3	359.7	346.4	329.9	311.5	288.8	261.5
90°	360.6	361.1	361.1	360.4	356.9	349.6	337.4	321.6	303.7	282.6	256.7
92.5°	350.5	350.5	350.1	350.1	346.4	339.1	327.8	313.4	296.6	276.4	251.4
95°	339.7	339.7	339.1	338.6	334.9	328.7	317.9	304.6	288.6	270.0	246.1
97.5°	328.3	328.0	327.6	327.1	323.5	317.5	307.9	295.0	280.3	262.7	240.4
100°	316.6	316.8	315.2	315.0	311.3	306.2	297.1	285.1	271.6	255.1	234.2
102.5°	303.7	304.2	302.8	302.6	298.9	293.4	286.1	275.3	263.1	248.0	228.0
105°	292.3	291.1	290.4	290.0	286.7	281.7	273.9	265.4	253.9	239.7	221.1
107.5°	279.2	279.4	278.0	277.1	273.9	269.8	262.9	255.1	245.0	231.5	214.5
110°	266.1	265.6	265.0	264.5	260.8	257.2	251.2	244.8	234.9	223.2	207.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	252.6	252.8	*251.6*	251.0	248.4	244.5	240.2	234.0	225.5	214.5	199.6
115°	240.0	239.5	*238.6*	238.1	235.4	232.4	228.0	223.4	215.9	205.3	191.8
117.5°	227.1	226.2	*226.0*	225.3	223.2	220.2	216.8	212.9	205.5	196.4	183.5
120°	213.8	213.8	*213.3*	212.9	210.1	207.6	205.5	201.4	195.2	186.5	175.5
122.5°	201.4	201.2	*200.3*	199.6	198.2	195.9	193.4	190.2	184.7	176.9	166.3
125°	187.9	188.3	*187.6*	187.4	185.1	184.0	181.7	179.6	173.9	166.8	157.4
127.5°	176.6	175.9	*175.9*	174.8	173.7	172.5	170.7	167.9	164.0	156.7	148.0
130°	164.7	164.2	*163.6*	163.6	162.2	160.6	159.4	157.1	152.8	146.8	138.6
132.5°	152.8	152.3	*151.9*	151.2	150.3	150.0	148.9	146.4	142.2	137.0	129.8
135°	141.5	141.3	*141.1*	141.1	139.7	139.0	137.6	135.6	132.8	128.0	121.1
137.5°	131.0	130.3	*129.8*	129.8	129.4	128.2	127.1	125.5	122.5	118.6	112.4
140°	120.0	120.4	*120.4*	120.2	119.3	118.6	117.2	115.8	112.9	109.7	104.4
142.5°	110.8	110.6	*110.1*	109.9	109.4	108.5	107.8	106.2	104.4	100.9	96.3
145°	100.9	100.9	*100.7*	100.9	100.0	99.8	98.9	97.5	95.4	92.4	88.5
147.5°	92.2	92.2	*92.0*	92.2	91.5	90.8	90.2	89.2	87.4	85.1	81.7
150°	84.2	84.4	*84.0*	84.0	83.7	83.0	82.6	81.2	79.8	78.0	75.0
152.5°	76.8	77.1	*76.8*	76.6	76.4	75.9	75.2	74.3	72.9	71.3	68.8
155°	70.7	70.4	*70.4*	70.4	70.2	69.5	69.5	68.1	66.8	65.6	63.1
157.5°	64.7	64.7	*64.7*	64.7	64.2	64.0	63.5	62.4	61.7	60.1	58.3
160°	59.9	59.6	*59.6*	59.6	59.2	59.0	58.3	57.8	56.9	55.5	54.1
162.5°	55.1	55.3	*55.3*	55.3	54.8	54.6	54.1	53.7	53.0	51.6	50.7
165°	51.4	51.4	*51.4*	51.2	50.9	50.9	50.2	50.0	49.3	48.4	47.7
167.5°	48.4	48.4	*48.2*	48.4	47.9	47.5	47.3	46.8	46.3	45.9	45.2
170°	45.9	45.9	*45.9*	45.9	45.7	45.4	45.0	44.7	44.3	43.8	43.1
172.5°	43.8	43.8	*43.8*	43.8	43.6	43.4	42.9	42.7	42.4	42.0	41.5
175°	42.2	42.2	*42.2*	42.2	42.0	41.8	41.3	41.3	41.1	40.8	40.4
177.5°	41.1	41.1	*40.8*	40.8	40.6	40.4	40.4	40.1	40.1	39.9	39.7
180°	39.7	39.7	*39.7*	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
2.5°	25.2	24.3	22.7	21.3	19.7	18.6	17.4	17.2	17.2	17.7	17.7
5°	29.1	27.1	23.9	20.9	17.4	14.9	12.6	10.6	9.2	8.5	8.5
7.5°	36.5	34.9	30.1	25.9	21.8	17.9	14.2	11.0	8.7	7.1	6.9
10°	45.9	43.4	37.6	32.3	26.8	22.0	17.7	13.8	11.0	9.6	9.6
12.5°	56.0	52.5	45.7	39.2	32.8	26.6	21.6	17.7	14.9	13.5	13.1
15°	66.8	62.9	54.6	46.3	38.5	31.9	26.2	21.3	18.6	17.2	17.0
17.5°	76.8	72.5	63.1	53.2	44.3	36.2	29.4	24.3	20.9	19.3	19.0
20°	87.9	82.1	71.1	59.6	49.1	39.5	31.7	25.7	21.6	19.7	19.5
22.5°	99.1	92.4	79.4	66.1	53.4	42.4	33.3	26.4	21.8	19.7	19.5
25°	111.0	103.7	88.3	72.9	58.3	45.4	34.9	27.1	22.3	19.7	19.5
27.5°	123.6	115.4	97.7	80.3	63.1	48.4	36.5	28.0	22.5	20.0	19.5
30°	137.2	127.8	107.4	87.4	67.7	51.2	37.9	28.4	22.7	20.0	19.7
32.5°	150.7	139.2	117.9	94.3	72.5	53.7	39.2	29.1	22.9	20.2	20.0
35°	163.8	152.5	127.5	101.4	77.1	56.2	40.4	29.6	23.4	20.4	20.0
37.5°	177.1	164.9	136.7	108.0	81.2	58.3	41.3	30.1	23.6	20.6	20.2
40°	189.7	175.5	145.7	114.5	84.6	60.1	42.0	30.3	23.9	20.9	20.4
42.5°	201.6	186.5	154.2	120.0	88.1	61.5	42.7	30.7	24.1	21.1	20.9
45°	211.7	196.1	161.5	125.5	90.6	62.6	43.1	31.0	24.3	21.3	21.1
47.5°	221.6	204.9	168.4	129.8	93.1	63.8	43.4	31.2	24.5	21.8	21.6
50°	230.3	212.7	174.6	133.7	95.0	64.2	43.6	31.4	25.0	22.3	22.0
52.5°	237.7	219.3	179.4	137.0	96.3	64.7	43.6	31.4	25.2	22.7	22.5
55°	243.6	225.0	183.7	139.2	97.3	64.9	43.6	31.7	25.7	23.2	22.9
57.5°	248.7	229.4	187.2	141.3	98.2	64.9	43.6	31.9	26.2	23.6	23.4
60°	252.3	233.1	189.7	142.7	98.4	64.7	43.6	32.1	26.6	24.3	24.1
62.5°	255.3	235.6	191.8	143.6	98.4	64.2	43.6	32.3	27.1	25.0	24.8
65°	257.4	237.4	193.2	144.1	98.2	64.0	43.6	32.8	27.8	25.7	25.5
67.5°	*258.5*	*238.8*	*194.1*	*144.5*	*98.0*	*64.0*	*43.8*	*33.5*	*28.4*	*26.6*	*26.4*
70°	259.0	239.0	194.3	144.3	97.7	63.5	44.0	34.0	29.4	27.5	27.3
72.5°	259.0	239.3	194.3	144.3	97.3	63.8	44.3	34.6	30.3	28.4	28.2
75°	258.3	238.6	194.1	143.8	97.0	63.5	45.0	35.6	31.2	29.6	29.4
77.5°	256.9	237.7	193.4	143.1	96.8	63.8	45.4	36.5	32.3	30.7	30.7
80°	255.3	236.3	192.5	142.5	96.6	64.2	46.1	37.6	33.5	32.1	31.9
82.5°	252.8	234.2	190.9	141.5	96.1	64.5	47.0	38.8	34.9	33.3	33.3
85°	249.4	231.2	188.8	140.4	95.7	64.9	47.9	39.7	36.2	34.6	34.6
87.5°	245.7	228.0	186.3	139.0	95.4	65.4	49.1	41.1	37.4	36.0	35.8
90°	241.3	224.1	183.7	137.4	95.2	66.1	50.0	42.4	39.0	37.6	37.4
92.5°	236.7	220.2	181.0	136.3	95.0	66.8	51.4	44.0	40.6	39.2	39.0
95°	232.2	216.1	178.2	134.7	95.0	67.7	52.8	45.7	42.2	40.8	40.6
97.5°	226.9	211.5	175.0	133.3	95.0	68.8	54.4	47.3	43.8	42.4	42.4
100°	221.4	206.9	171.8	131.9	95.2	70.0	56.0	49.1	45.7	44.3	44.3
102.5°	215.9	201.9	168.8	130.8	95.7	71.6	58.0	51.2	47.7	46.3	46.1
105°	209.9	196.8	165.4	129.2	96.1	72.9	59.9	53.0	49.6	48.2	48.2
107.5°	203.9	191.5	162.0	128.0	96.6	74.3	61.9	55.1	51.6	50.0	50.0
110°	197.3	185.8	158.3	126.6	97.0	75.9	63.5	56.9	53.2	51.8	51.6

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

Scaled Data Report

REPORT NUMBER: P1045884
CATALOG NUMBER: FFX-CLB-20-727-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	190.4	180.1	154.4	124.8	97.3	77.3	65.4	58.7	55.1	53.4	53.2
115°	183.1	173.7	150.0	123.0	97.3	78.5	66.8	60.1	56.4	54.8	54.6
117.5°	175.7	166.8	145.2	120.4	97.0	79.1	67.9	61.0	57.3	55.7	55.5
120°	167.9	159.9	140.4	117.9	96.1	79.4	68.4	61.7	57.8	56.2	56.0
122.5°	159.9	152.5	134.7	114.5	94.7	79.1	68.4	61.7	57.8	56.0	55.7
125°	151.2	144.8	128.7	110.3	92.7	78.2	67.9	61.2	57.3	55.5	55.1
127.5°	142.7	137.0	122.5	106.2	90.2	76.8	67.0	60.3	56.4	54.6	54.4
130°	134.4	128.7	116.1	101.6	87.2	75.0	65.4	59.0	55.3	53.2	53.0
132.5°	125.7	120.4	109.7	96.8	83.7	72.7	63.8	57.6	53.7	52.1	51.6
135°	117.0	112.9	103.0	91.8	80.3	70.2	61.9	56.0	52.3	50.5	50.5
137.5°	109.2	105.1	96.3	86.7	76.6	67.2	59.6	54.1	50.7	49.1	48.9
140°	101.2	98.0	90.2	81.7	72.7	64.5	57.8	52.5	49.3	47.7	47.5
142.5°	93.6	90.4	84.2	76.4	68.8	61.5	55.5	50.7	47.7	46.3	46.1
145°	86.0	83.7	77.8	71.6	64.9	58.5	53.0	48.9	46.3	45.0	45.0
147.5°	79.4	77.3	72.0	66.8	61.0	55.7	50.9	47.3	45.0	43.8	43.6
150°	72.9	71.1	66.8	62.4	57.1	52.8	48.6	45.7	43.6	42.7	42.4
152.5°	67.0	65.6	61.9	58.3	53.9	50.0	46.8	44.3	42.4	41.5	41.5
155°	61.9	60.8	57.6	54.4	50.9	47.7	45.0	42.9	41.5	40.8	40.6
157.5°	57.6	56.2	53.7	51.2	48.4	45.7	43.6	41.8	40.8	40.1	40.1
160°	53.4	52.3	50.2	48.4	46.1	44.0	42.2	41.1	40.1	39.7	39.7
162.5°	50.0	49.1	47.5	45.9	44.3	42.7	41.3	40.4	39.7	39.2	39.2
165°	47.0	46.6	45.2	44.0	42.7	41.5	40.6	39.9	39.5	39.2	39.2
167.5°	44.7	44.3	43.4	42.4	41.5	40.6	39.9	39.5	39.2	39.0	39.0
170°	42.9	42.4	42.0	41.3	40.6	39.9	39.5	39.2	39.0	39.0	39.0
172.5°	41.5	41.1	40.8	40.4	39.9	39.5	39.2	39.0	39.0	39.0	39.0
175°	40.4	40.1	39.9	39.7	39.5	39.2	39.0	39.0	39.0	39.0	39.0
177.5°	39.7	39.5	39.5	39.2	39.2	39.0	39.0	39.2	39.2	39.2	39.5
180°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7

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

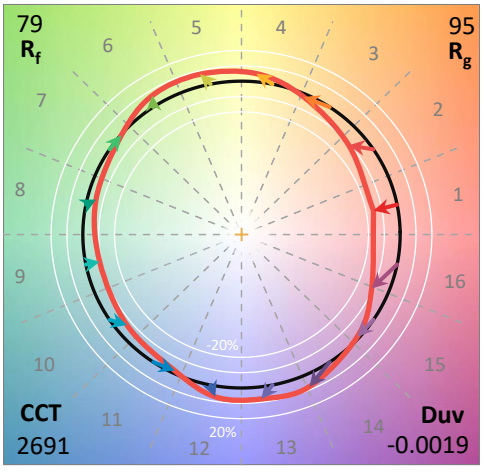
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

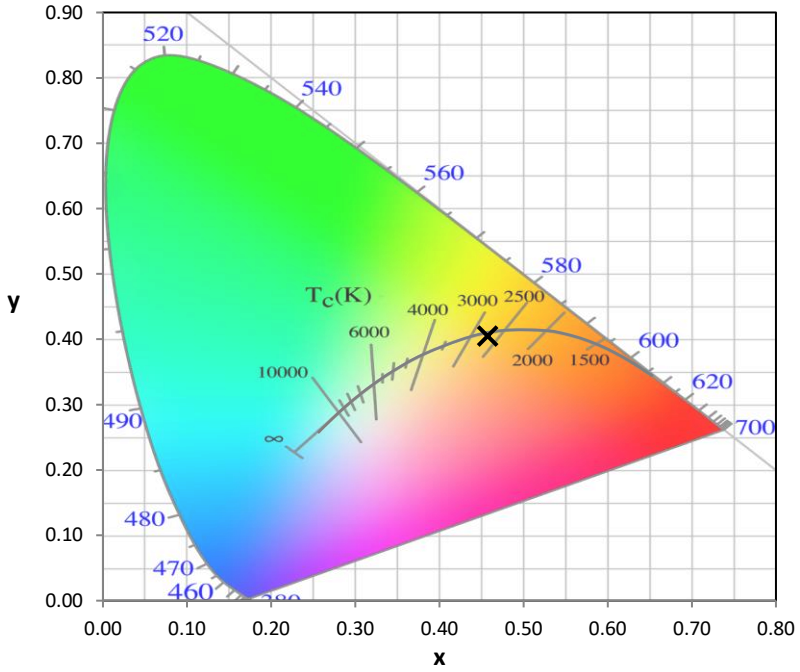
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

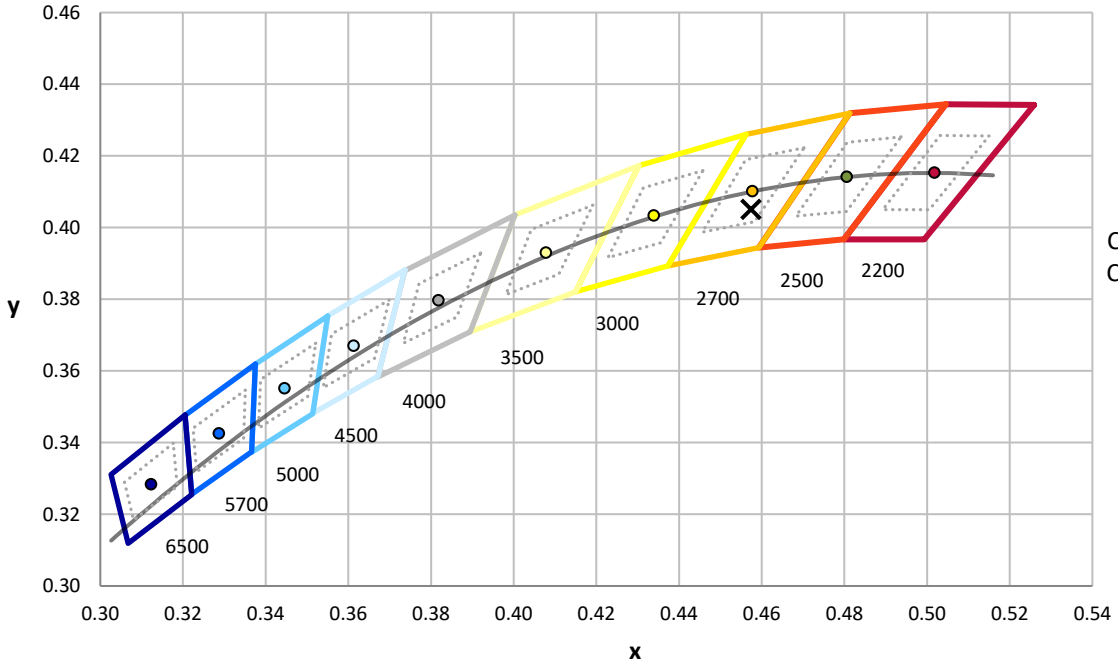
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

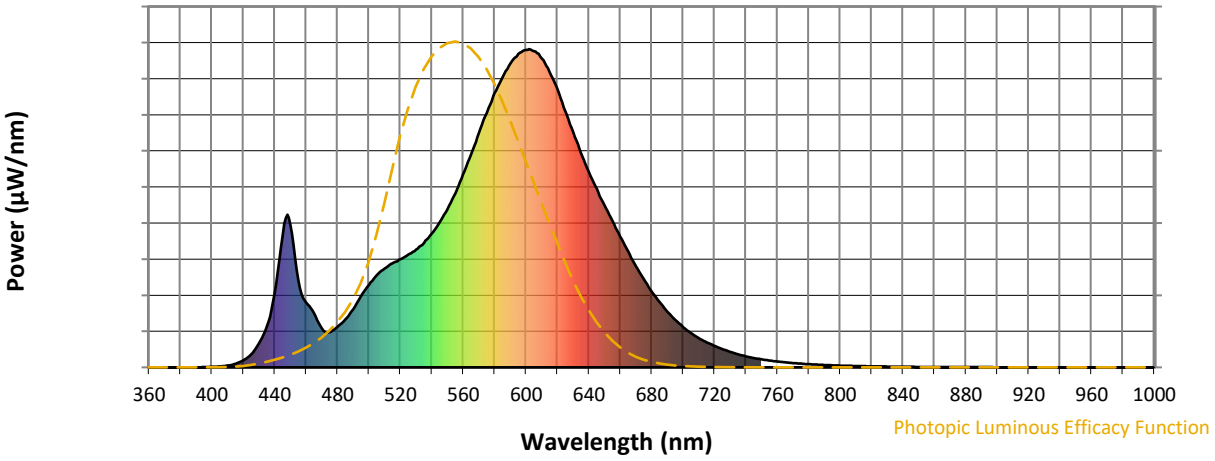


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

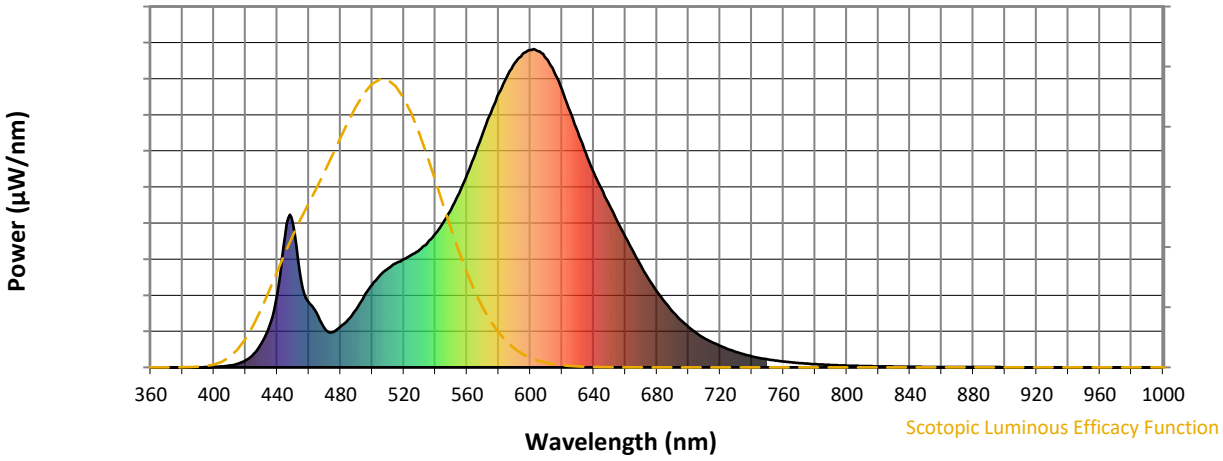


Photopic Lumens: NR

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

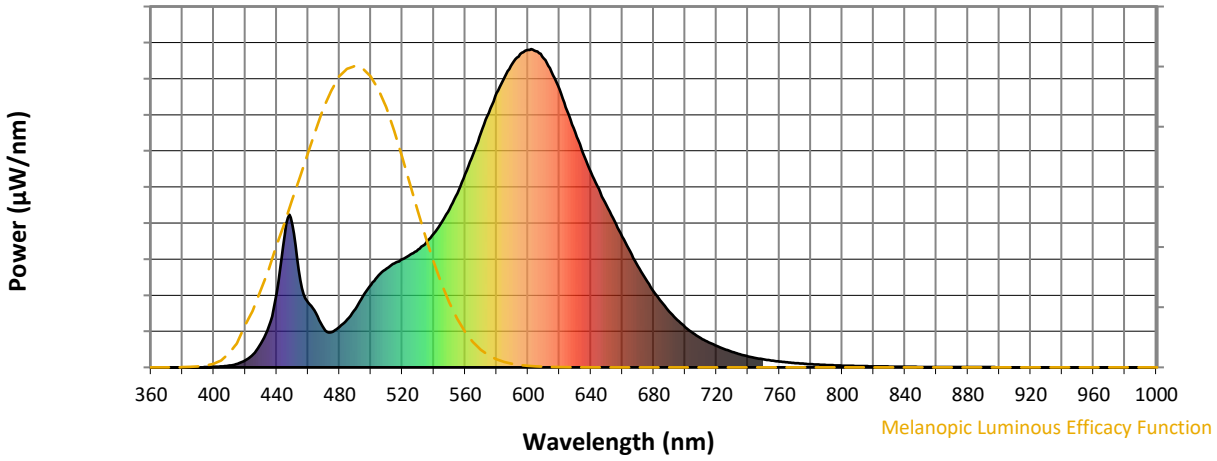


Scotopic Lumens: NR **S/P: 1.18**

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			

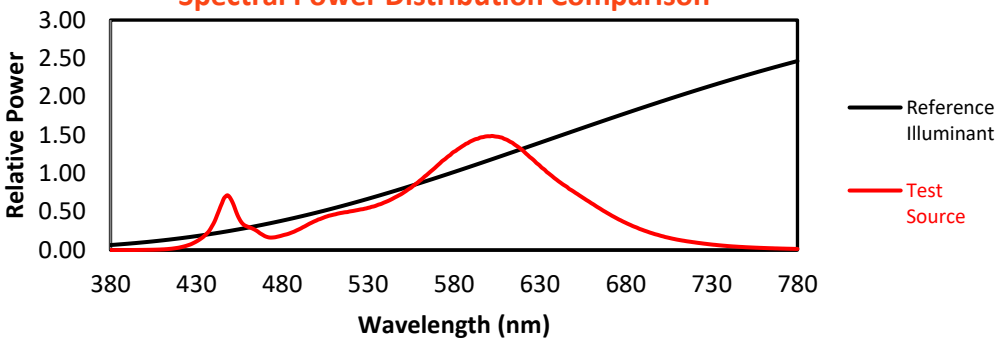
REPORT NUMBER: SP1-2501-332-8

TM-30-18

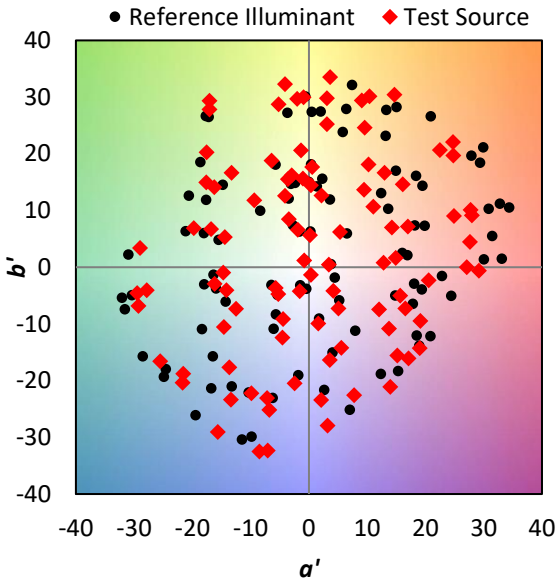
Summary

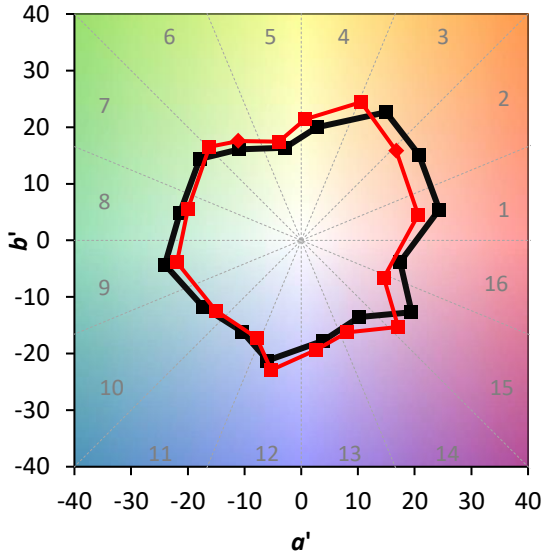
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

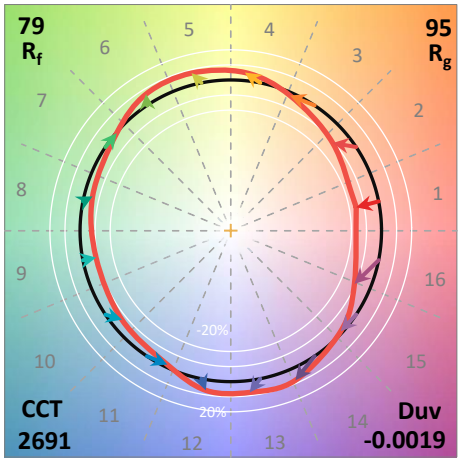
Spectral Power Distribution Comparison

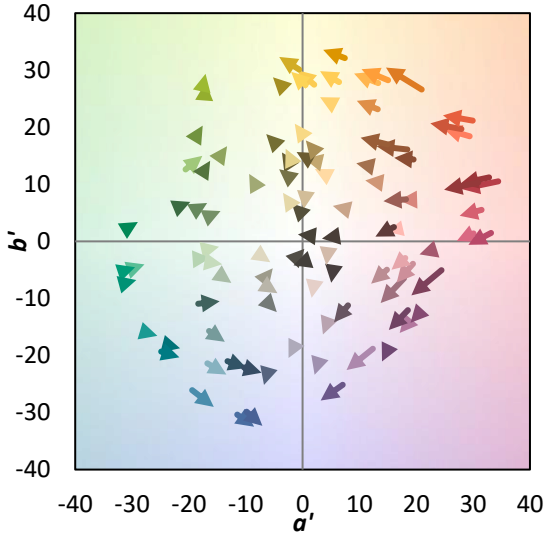


Color Vector Graphics







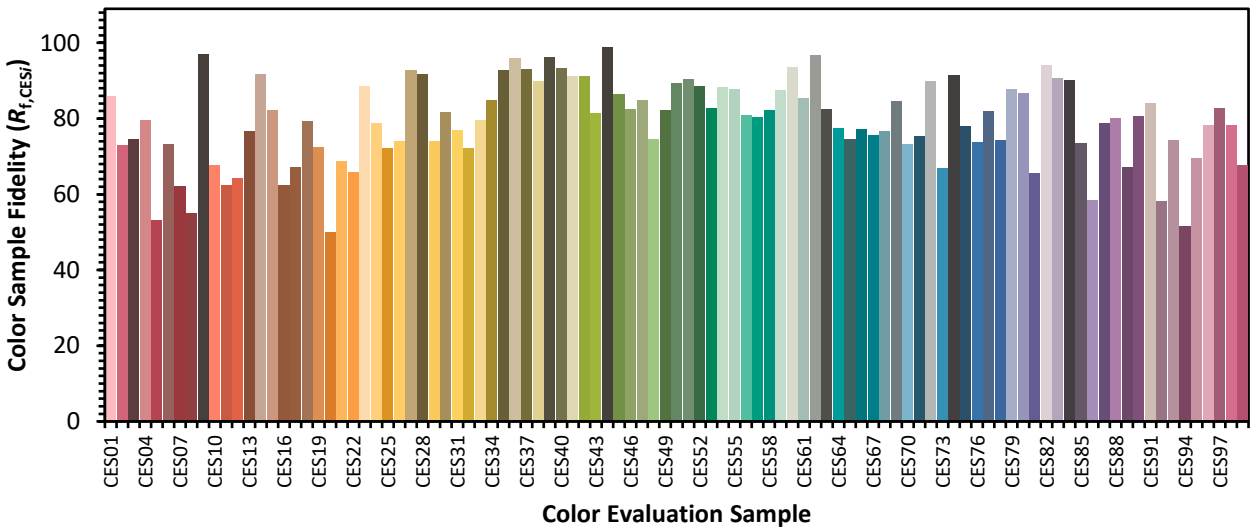


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

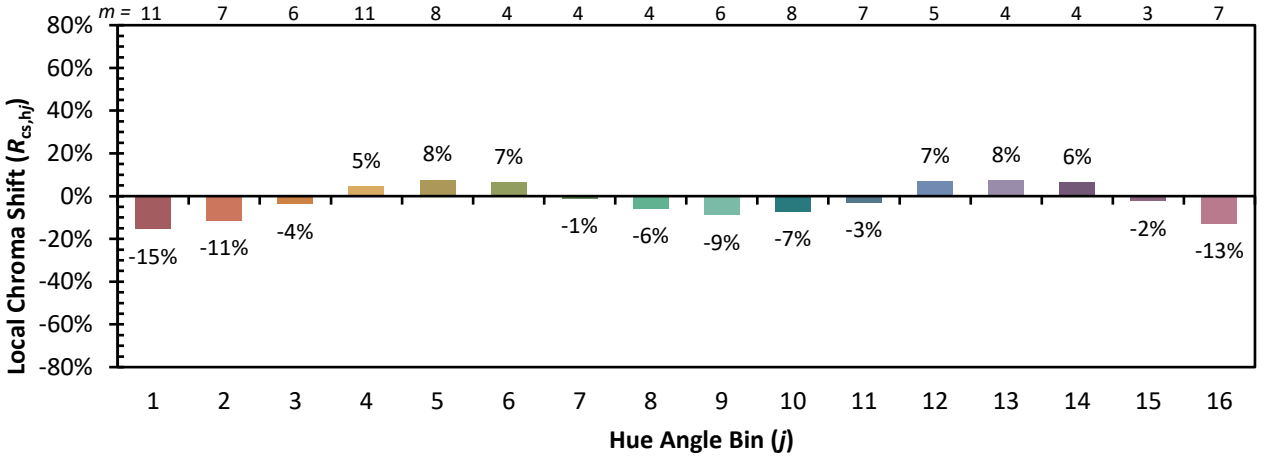
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 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	

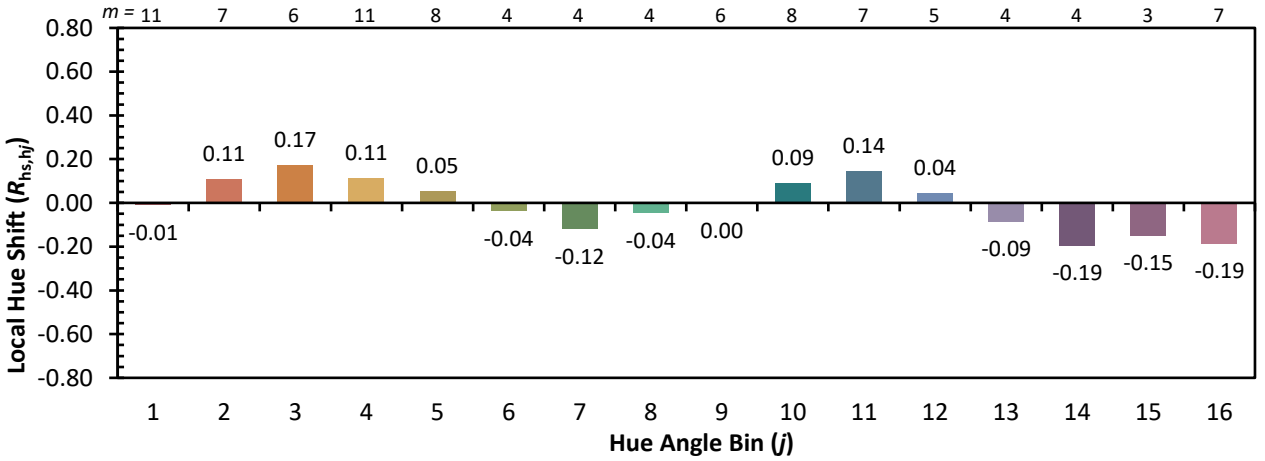


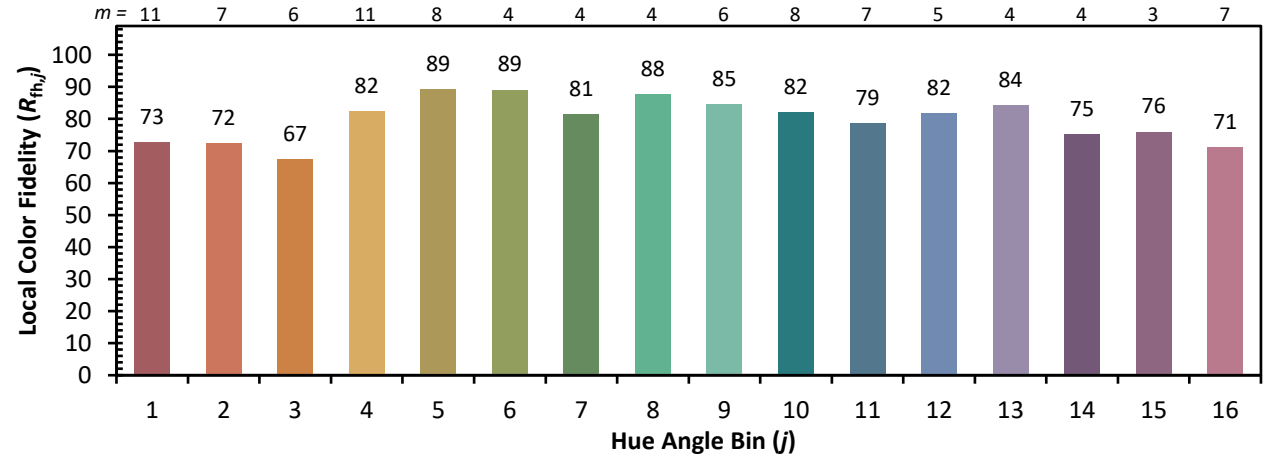
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Color Rendition by Hue-Angle Bin



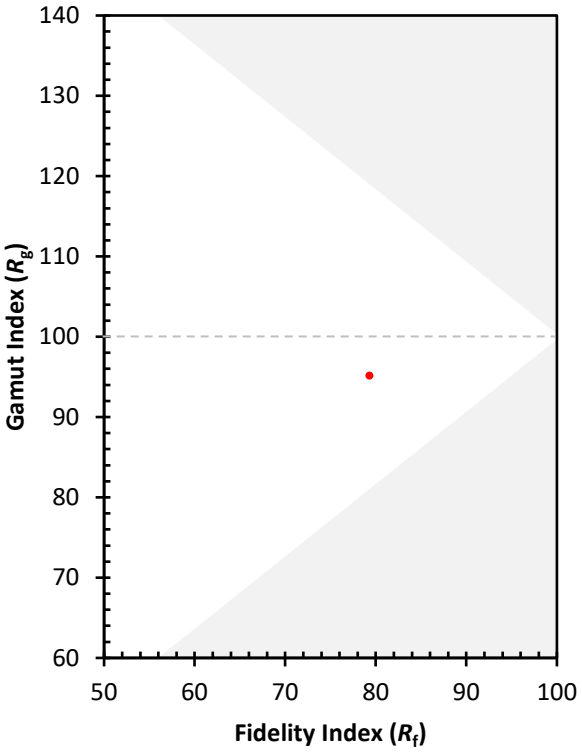


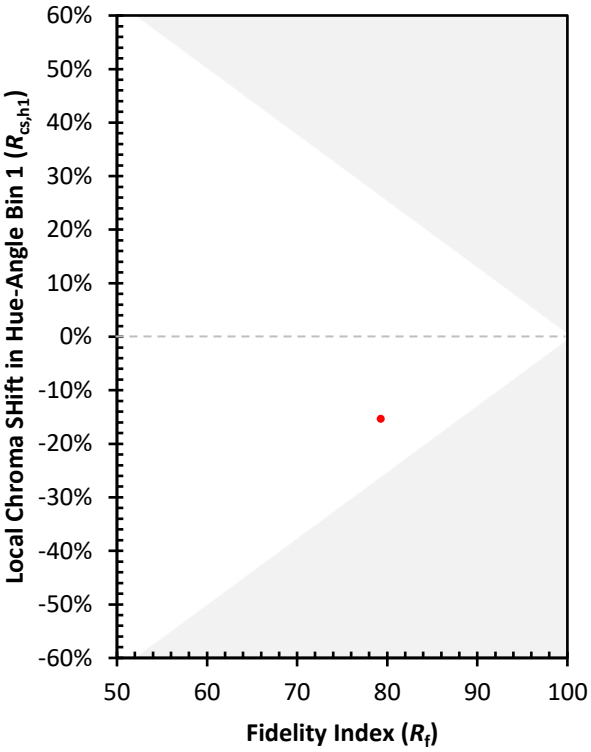


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Measure Comparisons





(END OF REPORT)