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: P1045929

Luminaire Tested: **FFX-CLB-20-727-U-FG-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045929
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-FG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FROSTED 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:	2181.8 lumens
Efficiency:	N/A
Efficacy:	110.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
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

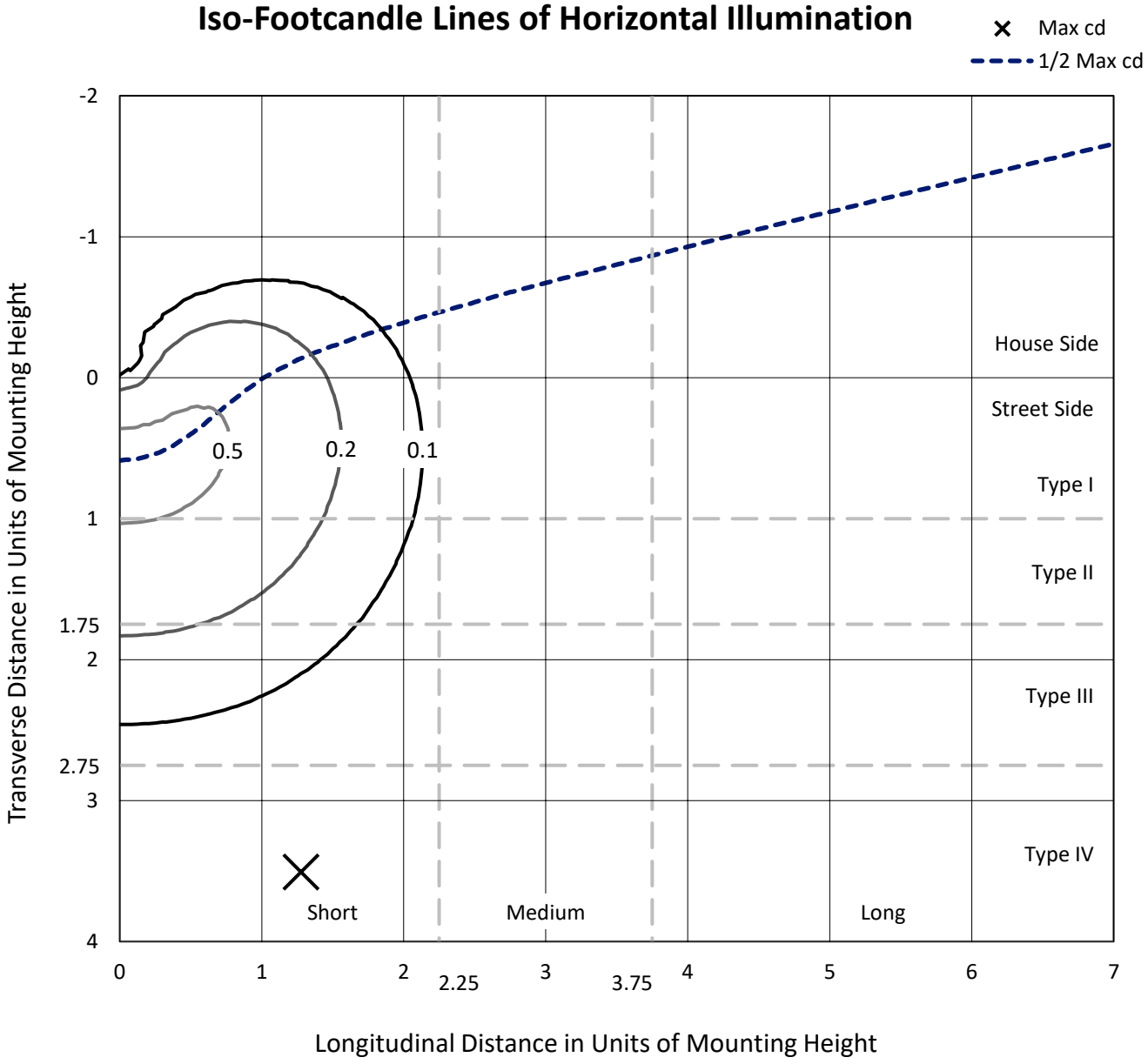


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Iso-Footcandle Lines of Horizontal Illumination



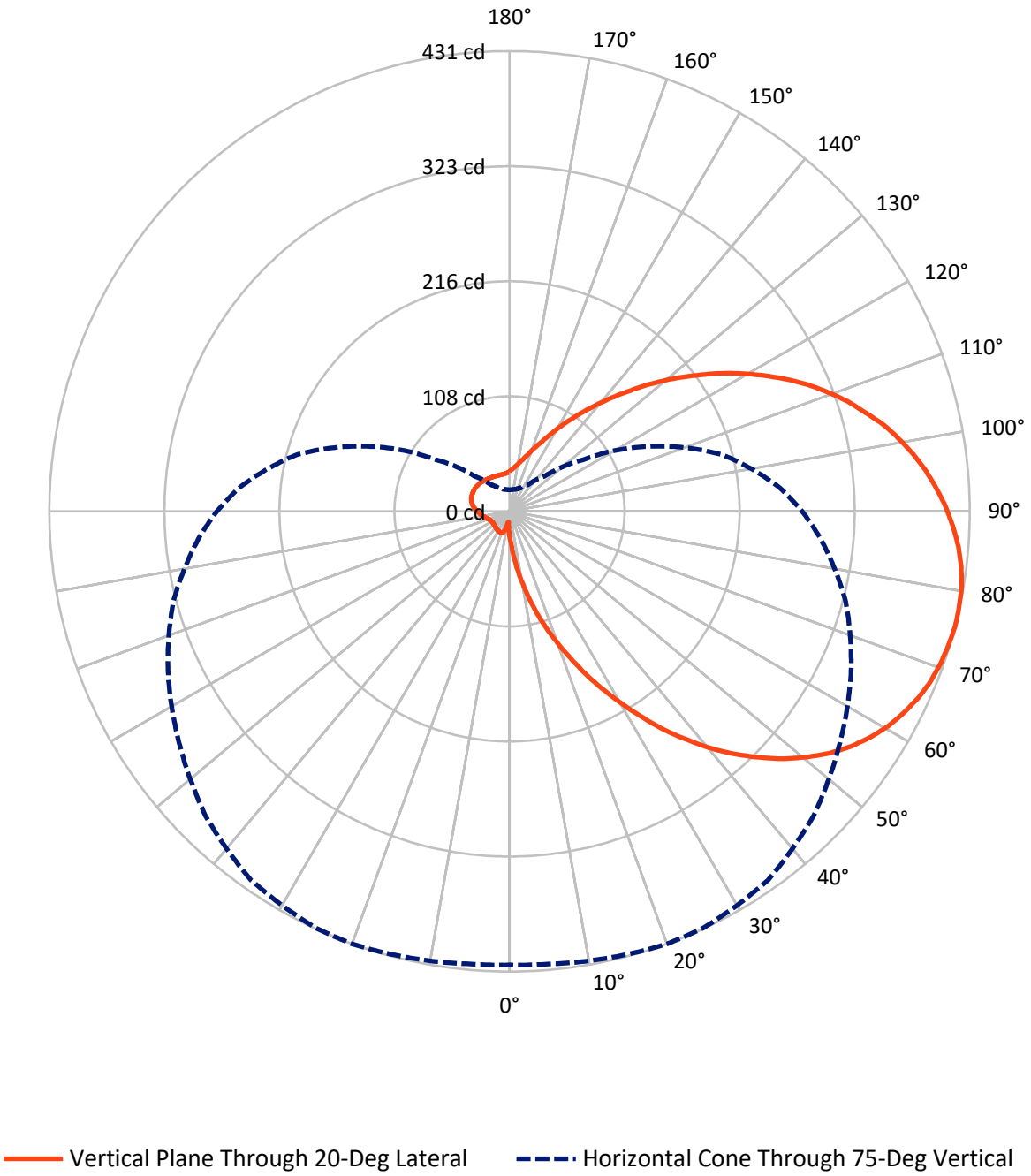
Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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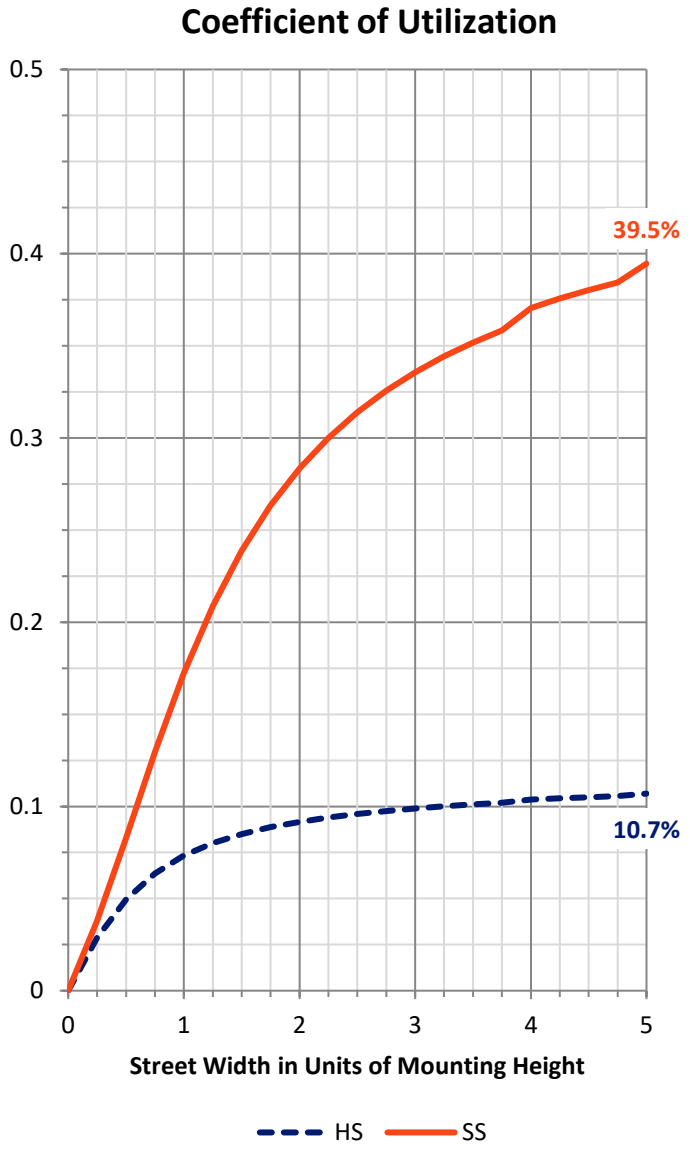
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	252.2	240.0	492.2
	% Fixture	11.6	11.0	22.6
Street Side	Lumens	990.5	699.1	1689.6
	% Fixture	45.4	32.0	77.4
Total	Lumens	1242.7	939.1	2181.8
	% Fixture	57.0	43.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	18.2	0.8
20°-30°	48.2	2.2
30°-40°	93.1	4.3
40°-50°	145.9	6.7
50°-60°	195.0	8.9
60°-70°	231.1	10.6
70°-80°	251.8	11.5
80°-90°	256.3	11.7
90°-100°	243.1	11.1
100°-110°	214.9	9.9
110°-120°	174.5	8.0
120°-130°	128.5	5.9
130°-140°	85.2	3.9
140°-150°	50.2	2.3
150°-160°	26.5	1.2
160°-170°	12.5	0.6
170°-180°	3.7	0.2
0°-90°	1242.7	57.0
0°-180°	2181.8	100.0



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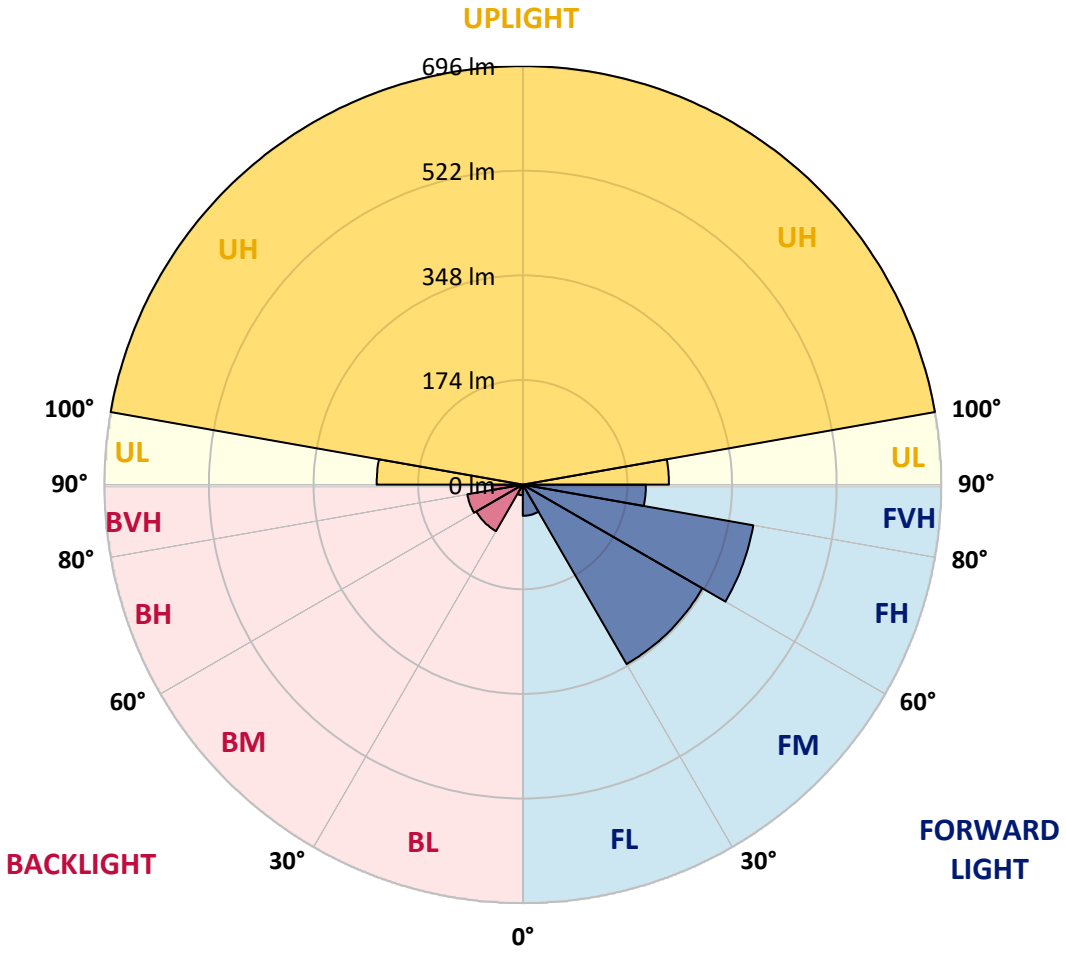
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	51.9	2.4			
FM	(30°-60°)	344.7	15.8			
FH	(60°-80°)	389.2	17.8			G0/660
FVH	(80°-90°)	204.7	9.4			G2/225
BL	(0°-30°)	17.6	0.8	B0/110		
BM	(30°-60°)	89.3	4.1	B0/220		
BH	(60°-80°)	93.7	4.3	B0/110		G0/110
BVH	(80°-90°)	51.7	2.4			G1/100
UL	(90°-100°)	243.1	11.1		U3/500	
UH	(100°-180°)	696.0	31.9		U4/1000	

BUG Rating: B0-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2.5°	30.5	30.5	30.7	30.7	30.9	30.5	29.8	29.3	28.7	27.1	25.7
5°	42.4	42.6	42.2	42.4	42.6	41.5	39.9	37.8	34.8	32.1	29.1
7.5°	56.9	57.5	56.4	56.2	55.5	53.6	51.4	48.1	44.9	41.3	36.9
10°	72.7	72.4	71.1	69.5	69.0	66.7	63.7	60.8	55.9	51.4	46.8
12.5°	87.6	87.3	86.2	85.1	84.4	81.4	77.7	74.3	69.2	63.3	57.5
15°	103.2	103.4	102.2	101.6	100.2	97.2	94.2	89.2	84.1	77.3	70.4
17.5°	118.8	119.2	118.1	117.6	116.5	113.9	110.0	104.8	98.3	90.3	81.6
20°	135.9	136.4	135.7	134.1	132.7	130.0	126.5	119.9	112.8	104.5	93.3
22.5°	154.3	154.5	152.5	152.0	150.6	148.1	143.1	137.1	129.1	118.5	106.8
25°	172.4	172.4	171.9	171.5	169.4	166.4	161.4	154.1	145.1	133.9	120.1
27.5°	191.9	192.1	191.0	190.5	188.9	185.0	179.7	171.7	162.5	149.0	133.4
30°	212.5	212.3	211.1	210.2	209.5	205.6	199.7	191.4	180.0	164.4	148.6
32.5°	233.1	232.5	231.8	230.9	230.6	225.6	220.8	210.7	198.8	182.3	163.2
35°	254.2	252.6	252.2	252.4	251.3	247.1	240.0	230.2	216.4	199.2	177.7
37.5°	272.6	274.0	272.8	271.9	272.1	267.5	260.0	249.0	234.5	215.5	192.3
40°	293.0	292.1	292.1	292.1	291.4	287.3	279.2	267.1	250.6	230.4	205.2
42.5°	310.6	310.6	311.8	311.1	310.4	305.6	296.9	283.4	265.9	244.2	217.6
45°	328.7	328.3	329.7	328.7	328.3	323.2	314.1	300.1	281.8	257.9	229.9
47.5°	345.5	345.7	346.2	346.2	345.7	340.0	330.4	313.8	295.3	269.8	240.5
50°	359.9	361.1	362.4	361.5	362.0	355.8	345.0	328.3	306.7	281.1	249.9
52.5°	374.1	374.1	376.0	376.0	375.5	369.6	357.4	339.8	318.4	291.2	258.6
55°	386.3	386.5	388.1	388.4	388.1	381.2	368.4	349.4	327.1	299.6	265.7
57.5°	395.5	396.1	398.2	398.9	398.0	391.8	377.3	358.1	334.5	306.3	271.9
60°	403.7	404.6	406.9	407.8	407.2	400.5	385.4	364.7	340.4	312.0	277.2
62.5°	411.0	411.3	414.3	414.7	414.5	407.4	391.3	369.8	345.3	316.4	281.8
65°	416.3	417.0	420.2	420.9	420.4	412.9	396.1	373.9	349.2	320.0	285.2
67.5°	420.4	420.9	424.1	425.3	424.8	416.8	399.6	376.4	351.4	322.6	287.9
70°	422.7	423.4	427.1	428.0	427.6	419.5	401.7	377.6	352.8	324.4	289.8
72.5°	424.1	424.8	428.7	429.8	429.6	421.1	402.6	378.0	353.3	325.3	291.2
75°	424.8	425.5	429.4	431.0	430.3	421.8	402.8	377.8	353.0	326.0	292.3
76°	424.8	425.3	429.4	431.0	430.3	421.8	402.8	377.3	352.8	326.2	292.8
77.5°	424.3	425.0	429.2	430.5	430.1	421.6	402.1	376.4	352.1	325.8	293.0
80°	423.2	423.9	427.8	429.4	428.7	420.0	400.5	374.6	350.3	324.9	293.0
82.5°	420.7	421.4	425.0	426.2	426.0	417.2	397.5	371.4	347.5	323.2	292.5
85°	416.8	417.5	420.4	421.8	421.1	412.9	393.2	367.0	344.1	320.7	291.2
87.5°	411.5	412.0	415.2	415.6	415.4	407.2	387.7	361.5	339.5	317.3	288.9
90°	405.1	405.5	408.1	408.8	408.1	400.3	380.6	355.6	333.8	313.2	286.1
92.5°	398.4	398.2	400.0	400.7	400.0	392.3	373.2	348.5	327.8	308.6	282.7
95°	390.6	391.1	391.6	392.0	391.1	383.5	365.0	340.7	321.4	303.5	279.5
97.5°	381.9	381.7	382.2	382.2	381.2	373.7	355.6	333.1	314.1	298.0	275.1
100°	372.8	372.5	372.1	371.2	370.2	362.9	346.2	323.7	306.5	291.4	270.7
102.5°	362.7	361.3	359.9	359.7	357.6	351.4	335.4	314.8	298.5	285.2	265.2
105°	350.3	349.8	347.8	345.9	344.8	337.9	323.2	304.9	290.0	277.6	259.3
107.5°	337.7	336.8	333.8	333.1	330.8	324.6	311.3	295.0	281.5	270.1	252.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
110°	324.2	323.7	320.5	*318.4*	316.6	309.7	298.3	284.5	272.1	261.6	244.2
112.5°	309.0	308.6	305.1	*303.5*	300.8	295.5	284.7	272.4	261.8	252.2	235.4
115°	293.7	293.4	289.5	*287.5*	285.0	278.5	269.8	260.2	250.8	241.2	224.9
117.5°	278.3	277.2	273.3	*270.7*	268.2	262.5	255.4	247.8	239.1	230.2	214.1
120°	260.9	260.7	256.3	*254.2*	251.9	246.7	240.5	233.4	226.5	217.6	203.3
122.5°	244.2	243.9	240.0	*237.5*	234.5	230.4	225.4	219.9	213.7	205.0	191.0
125°	227.2	226.7	222.6	*220.1*	217.6	214.1	209.3	205.4	200.4	192.1	178.8
127.5°	210.0	209.1	206.6	*204.0*	201.3	196.9	195.3	191.9	186.4	178.4	166.7
130°	193.9	193.5	190.1	*187.8*	185.0	181.6	180.2	177.4	173.5	166.2	155.2
132.5°	177.2	176.8	174.7	*172.4*	170.1	166.7	166.0	163.5	159.6	153.6	143.3
135°	162.3	161.9	159.6	*157.0*	155.9	153.4	152.5	150.4	146.7	140.8	131.8
137.5°	147.9	147.6	145.3	*143.3*	141.9	140.1	139.2	137.3	134.6	129.3	121.0
140°	134.8	133.7	131.8	*130.0*	128.6	126.8	126.3	124.7	122.7	117.6	111.6
142.5°	121.7	121.0	119.7	*118.1*	117.1	115.1	113.9	113.3	110.5	106.6	101.8
145°	108.9	108.9	107.7	*106.6*	105.2	103.9	102.9	102.2	100.0	96.5	91.9
147.5°	98.1	98.1	97.2	*96.7*	95.6	93.8	93.1	92.4	90.3	87.6	83.9
150°	89.0	88.5	87.8	*87.1*	86.2	84.6	83.4	82.8	81.2	79.1	75.7
152.5°	79.8	79.8	79.3	*78.4*	77.7	76.6	75.7	74.7	73.6	71.3	68.5
155°	72.0	72.0	71.3	*70.8*	70.4	69.5	68.5	67.6	66.3	64.4	62.4
157.5°	65.6	65.6	65.1	*64.9*	64.0	63.5	62.6	61.7	60.3	58.7	56.9
160°	59.6	59.8	59.6	*59.4*	58.7	58.0	57.1	56.2	55.0	53.6	52.3
162.5°	54.8	55.0	54.6	*54.3*	53.9	53.2	52.3	51.8	50.9	49.3	47.9
165°	50.7	50.7	50.4	*50.2*	50.0	49.1	48.6	48.1	47.2	46.1	44.9
167.5°	47.5	47.5	47.2	*47.2*	46.8	46.3	45.6	45.2	44.2	43.6	42.2
170°	44.7	44.7	44.5	*44.2*	44.0	43.6	43.1	42.4	42.0	41.0	40.3
172.5°	42.4	42.4	42.2	*42.0*	42.0	41.3	41.0	40.6	40.1	39.4	38.7
175°	40.6	40.3	40.3	*40.1*	39.9	39.4	39.2	39.0	38.5	38.3	37.8
177.5°	39.0	39.0	38.7	*38.7*	38.5	38.1	38.1	37.8	37.6	37.4	37.1
180°	36.9	36.9	36.9	*36.9*	36.9	36.9	36.9	36.9	36.9	36.9	36.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2.5°	25.0	24.3	22.5	20.9	19.7	18.1	16.7	16.3	16.0	15.8	15.8
5°	27.5	26.1	22.9	19.9	17.2	14.9	12.8	10.8	9.2	8.3	7.8
7.5°	34.6	33.0	28.7	24.8	20.9	17.4	14.0	11.5	9.2	7.8	7.8
10°	44.0	41.7	36.2	30.7	25.9	20.9	16.7	13.3	11.2	10.1	10.1
12.5°	53.9	50.9	44.5	37.4	30.7	25.0	19.9	16.3	14.0	13.1	13.1
15°	65.6	61.7	53.4	44.5	36.5	29.6	23.8	19.7	17.0	15.8	15.6
17.5°	76.8	71.8	61.9	51.8	42.2	33.9	27.3	22.0	19.0	17.4	17.2
20°	88.7	82.5	70.8	58.5	47.5	37.4	29.3	23.6	19.7	17.9	17.7
22.5°	99.7	93.1	79.1	64.6	51.6	39.9	30.5	23.8	19.5	17.4	17.2
25°	112.3	104.8	88.3	71.3	55.9	42.0	31.4	23.8	19.3	17.0	16.7
27.5°	125.2	116.2	97.7	77.9	59.8	44.2	32.1	23.8	18.8	16.5	16.3
30°	138.7	128.8	106.6	84.8	64.0	46.1	32.8	23.6	18.6	16.0	15.8
32.5°	152.5	141.0	116.5	91.5	68.1	47.9	33.2	23.6	18.1	15.8	15.4
35°	166.4	153.1	126.3	98.3	71.8	49.5	33.5	23.4	17.9	15.4	15.1
37.5°	178.8	165.1	135.5	104.5	75.2	50.7	33.7	23.2	17.7	15.1	14.9
40°	191.4	176.5	144.2	110.0	77.7	51.4	33.5	22.9	17.2	14.9	14.7
42.5°	202.9	186.8	152.2	115.3	80.0	52.0	33.2	22.5	17.0	14.7	14.4
45°	213.9	196.9	159.8	119.9	82.1	52.3	32.8	22.2	16.7	14.7	14.4
47.5°	224.0	205.6	167.1	124.3	83.9	52.3	32.6	21.8	16.7	14.7	14.4
50°	232.5	214.4	173.1	128.2	85.1	52.0	32.1	21.5	16.7	14.7	14.4
52.5°	240.7	221.5	179.0	131.1	85.7	51.6	31.4	21.3	16.7	14.9	14.7
55°	247.4	227.9	184.1	134.3	86.4	51.1	30.9	21.1	16.7	14.9	14.9
57.5°	253.1	233.1	188.0	136.4	86.4	50.2	30.5	21.1	17.0	15.4	15.1
60°	258.6	238.0	192.1	138.2	86.4	49.5	30.0	21.1	17.2	15.6	15.4
62.5°	262.3	241.9	195.3	139.8	86.0	48.8	29.6	21.1	17.4	16.0	15.8
65°	265.9	245.5	198.3	141.2	85.7	48.1	29.6	21.3	17.9	16.7	16.5
67.5°	268.7	248.5	200.4	142.1	85.3	47.5	29.3	21.8	18.6	17.4	17.2
70°	271.0	250.8	202.9	142.8	84.8	47.0	29.6	22.5	19.3	18.1	18.1
72.5°	272.8	252.9	204.3	143.5	84.4	46.8	30.0	23.2	20.4	19.3	19.0
75°	*274.0*	*254.0*	*205.6*	*143.7*	*83.9*	*46.5*	*30.5*	*24.1*	*21.3*	*20.4*	*20.2*
76°	274.2	254.5	206.1	144.0	83.7	46.5	30.7	24.3	21.8	20.9	20.6
77.5°	274.9	255.2	206.6	144.0	83.4	46.5	31.2	25.0	22.5	21.5	21.5
80°	275.3	255.6	207.2	144.2	83.0	46.5	31.9	26.1	23.8	22.9	22.7
82.5°	275.1	255.8	207.5	143.7	82.8	46.8	32.8	27.3	25.2	24.3	24.1
85°	274.2	255.2	207.0	143.1	82.1	47.2	33.7	28.7	26.4	25.4	25.4
87.5°	272.6	253.6	205.9	142.1	81.6	47.5	34.6	29.8	27.7	26.8	26.8
90°	270.3	251.7	204.5	141.2	80.9	47.7	35.8	30.9	29.1	28.4	28.2
92.5°	267.5	249.4	202.7	139.8	80.5	48.1	36.7	32.3	30.5	29.6	29.6
95°	264.8	246.9	200.6	138.2	80.0	48.8	37.6	33.5	31.6	30.9	30.9
97.5°	260.9	243.5	197.8	136.4	79.3	49.1	38.7	34.6	33.0	32.1	32.1
100°	256.1	239.6	194.6	134.6	78.9	49.7	39.7	35.8	34.2	33.5	33.2
102.5°	251.3	235.0	191.2	132.5	78.2	50.0	40.6	36.9	35.1	34.4	34.4
105°	245.8	229.9	186.8	129.8	77.5	50.4	41.3	37.6	36.0	35.3	35.1
107.5°	239.3	223.5	182.5	127.2	76.8	50.9	42.0	38.3	36.7	36.0	35.8

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

Scaled Data Report

REPORT NUMBER: P1045929
CATALOG NUMBER: FFX-CLB-20-727-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	232.0	217.6	177.2	124.5	76.3	51.6	42.6	38.7	37.1	36.2	36.2
112.5°	223.5	209.1	171.5	121.3	76.3	52.5	43.1	39.2	37.4	36.5	36.5
115°	213.4	200.1	164.6	118.3	76.1	53.4	44.0	39.4	37.4	36.7	36.5
117.5°	203.6	190.7	157.7	115.3	76.8	55.0	44.9	39.9	37.4	36.5	36.5
120°	192.6	180.9	150.6	112.3	77.7	56.6	46.1	40.1	37.4	36.2	36.2
122.5°	181.1	170.3	143.7	109.6	78.4	58.5	47.0	40.6	37.1	36.0	35.8
125°	170.3	159.6	135.9	106.8	79.1	60.1	48.1	40.8	36.9	35.5	35.3
127.5°	158.4	150.2	129.1	103.9	79.6	61.4	49.1	41.0	36.7	35.1	34.8
130°	148.1	140.1	122.2	100.6	79.1	61.9	49.3	40.8	36.2	34.6	34.6
132.5°	136.6	130.2	114.6	96.5	77.9	61.9	49.5	40.8	36.0	34.4	34.2
135°	126.5	120.6	107.5	91.9	75.9	61.0	49.1	40.6	35.8	34.2	33.9
137.5°	117.1	111.4	100.0	87.1	72.9	59.4	48.1	40.1	35.5	33.9	33.7
140°	107.1	102.9	93.1	81.8	69.7	57.5	47.0	39.7	35.5	33.9	33.7
142.5°	97.9	94.5	85.5	76.1	65.6	54.8	45.6	39.0	35.3	33.9	33.7
145°	89.6	85.7	78.9	70.4	61.4	52.3	44.2	38.5	35.1	33.9	33.7
147.5°	81.6	78.2	72.4	65.1	57.8	49.7	42.9	37.8	35.1	33.9	33.7
150°	73.6	71.3	66.3	60.3	53.6	47.2	41.5	37.4	35.1	34.2	33.9
152.5°	66.7	65.1	60.8	55.9	50.2	44.7	40.1	36.9	35.1	34.2	34.2
155°	61.0	59.4	55.7	51.4	47.2	42.6	39.2	36.5	35.1	34.4	34.2
157.5°	55.2	54.1	51.1	47.9	44.5	41.0	38.3	36.2	35.1	34.4	34.4
160°	50.9	49.7	47.5	44.9	42.2	39.7	37.4	35.8	35.1	34.6	34.6
162.5°	47.2	46.3	44.5	42.4	40.3	38.3	36.7	35.5	35.1	34.6	34.6
165°	44.2	43.6	42.0	40.3	39.0	37.4	36.2	35.5	35.1	34.8	34.8
167.5°	41.7	41.3	40.1	39.0	37.8	36.7	35.8	35.3	35.1	35.1	35.1
170°	39.9	39.4	38.7	37.8	36.9	36.2	35.5	35.3	35.3	35.1	35.3
172.5°	38.5	38.3	37.6	36.9	36.5	35.8	35.5	35.3	35.5	35.5	35.5
175°	37.6	37.4	36.9	36.5	36.2	35.8	35.8	35.5	35.8	36.0	36.0
177.5°	36.9	36.7	36.5	36.5	36.2	36.0	36.0	36.2	36.5	36.5	36.5
180°	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9

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: SP1-2501-332-8

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

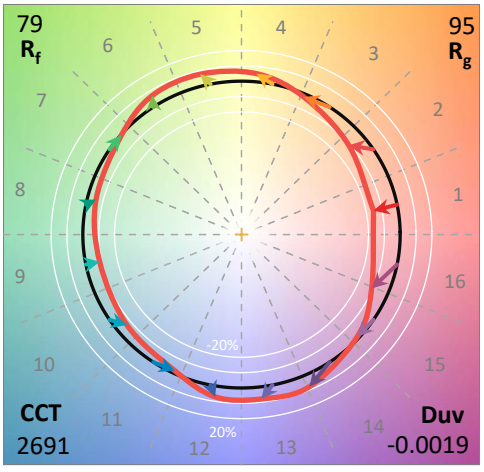
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

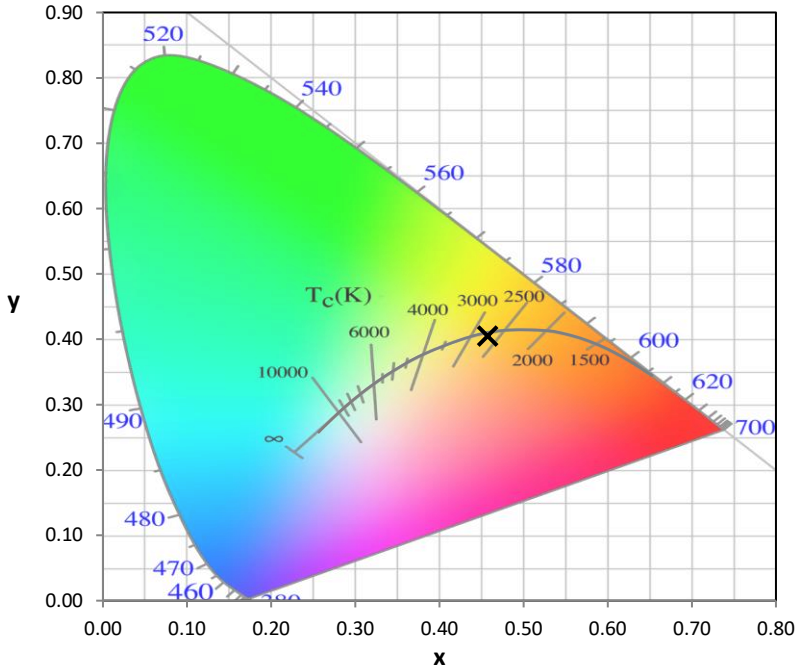
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

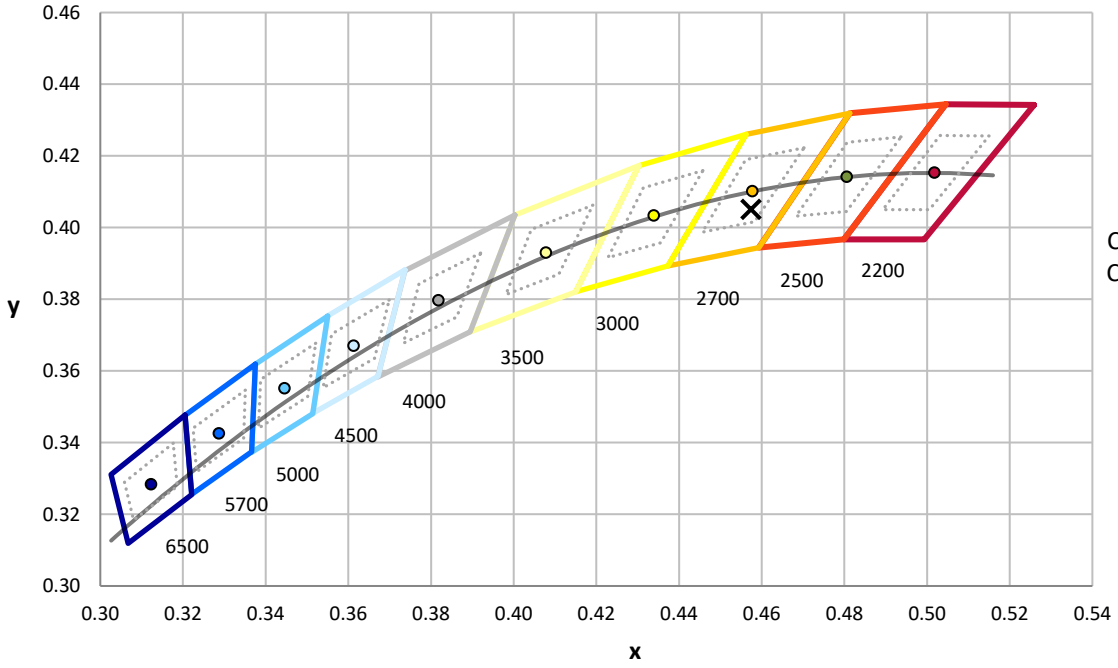
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

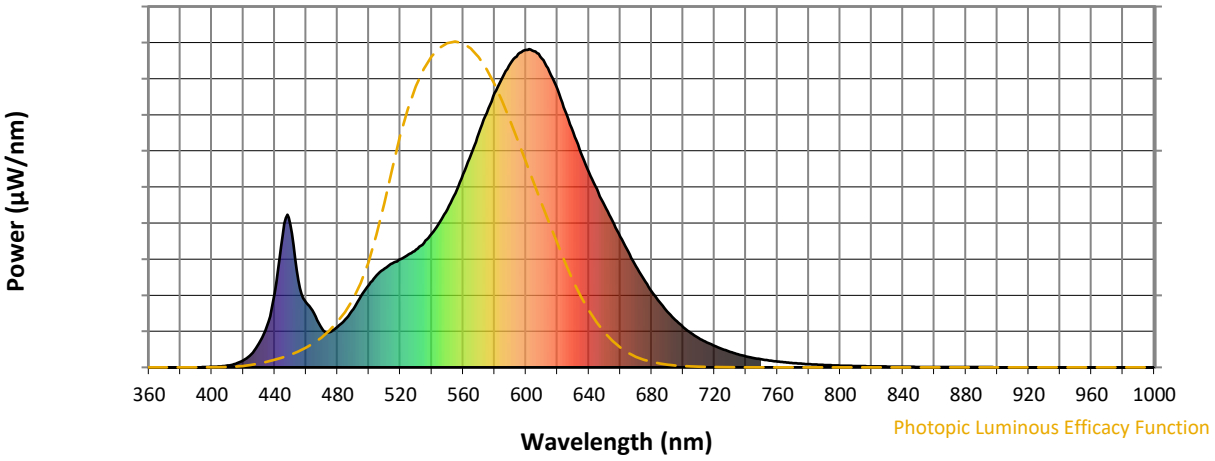


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

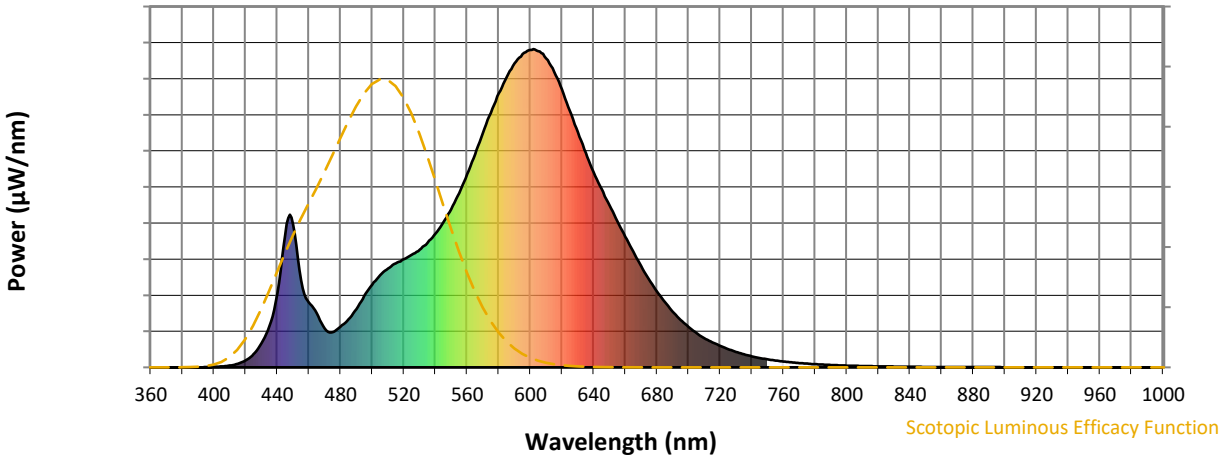


Photopic Lumens: NR

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

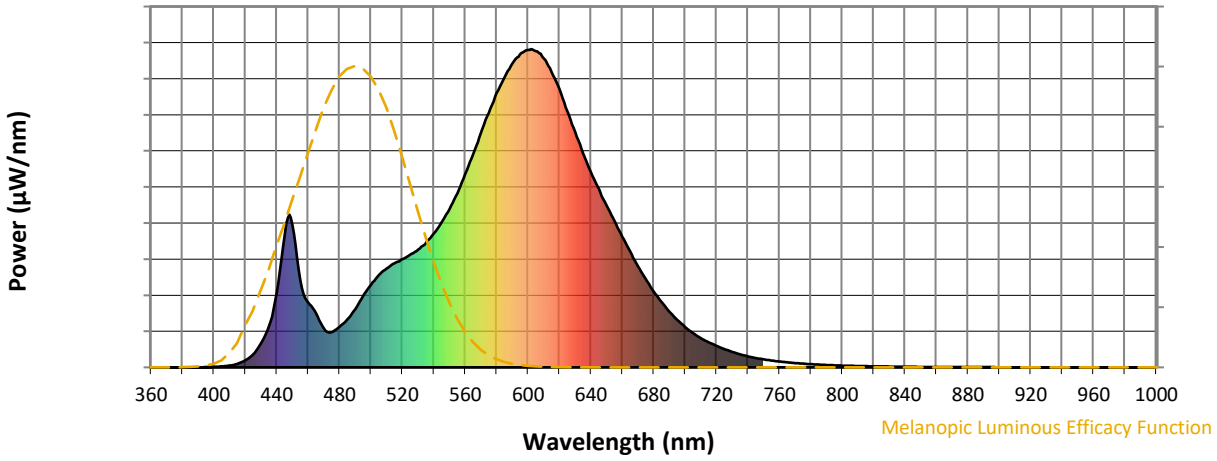


Scotopic Lumens: NR **S/P: 1.18**

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			

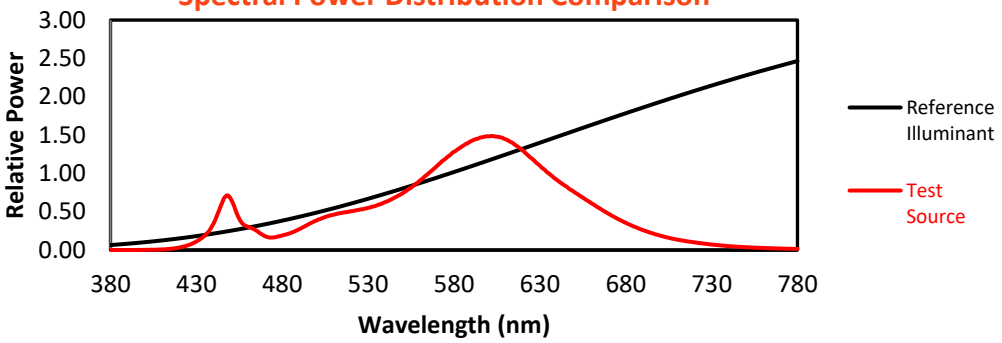
REPORT NUMBER: SP1-2501-332-8

TM-30-18

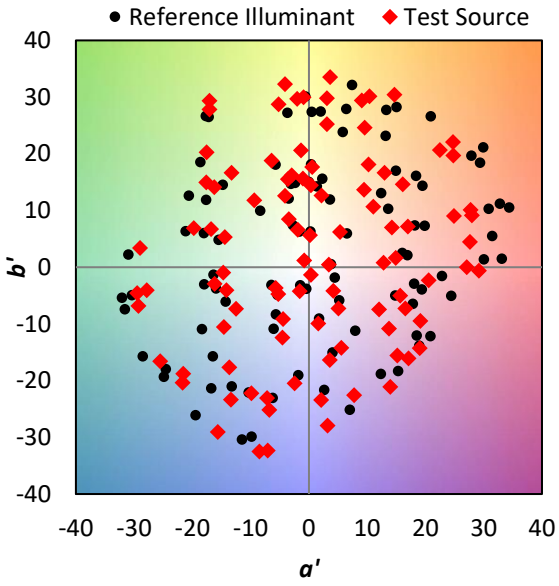
Summary

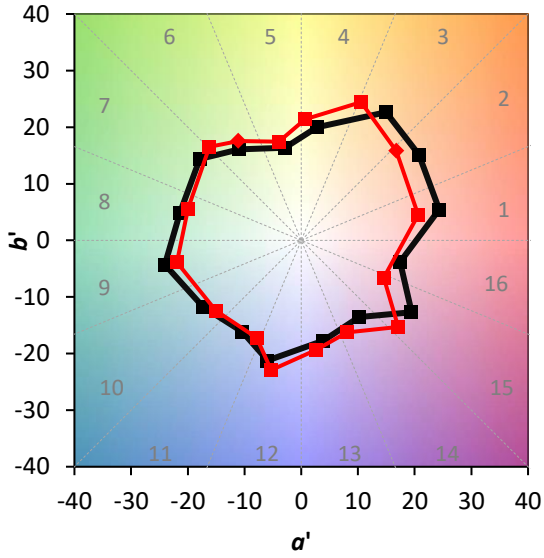
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

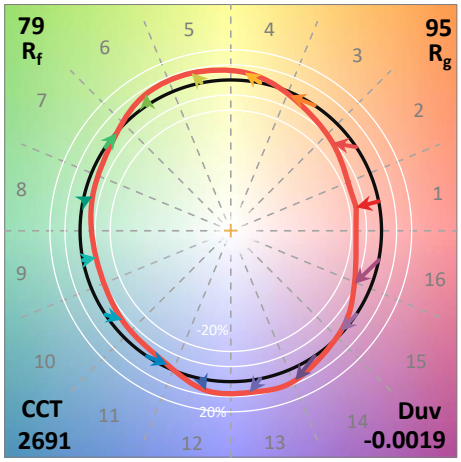
Spectral Power Distribution Comparison

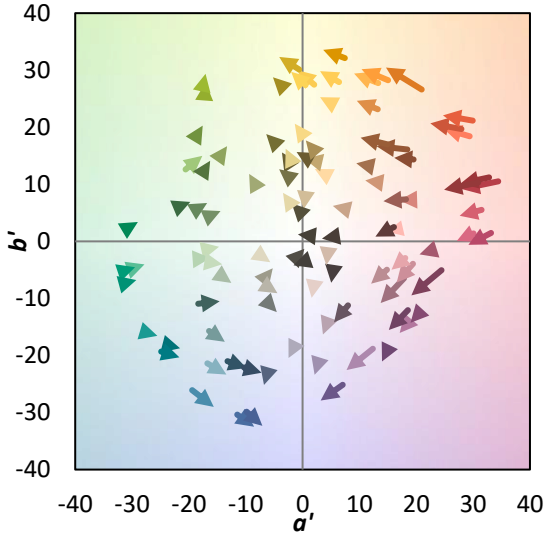


Color Vector Graphics







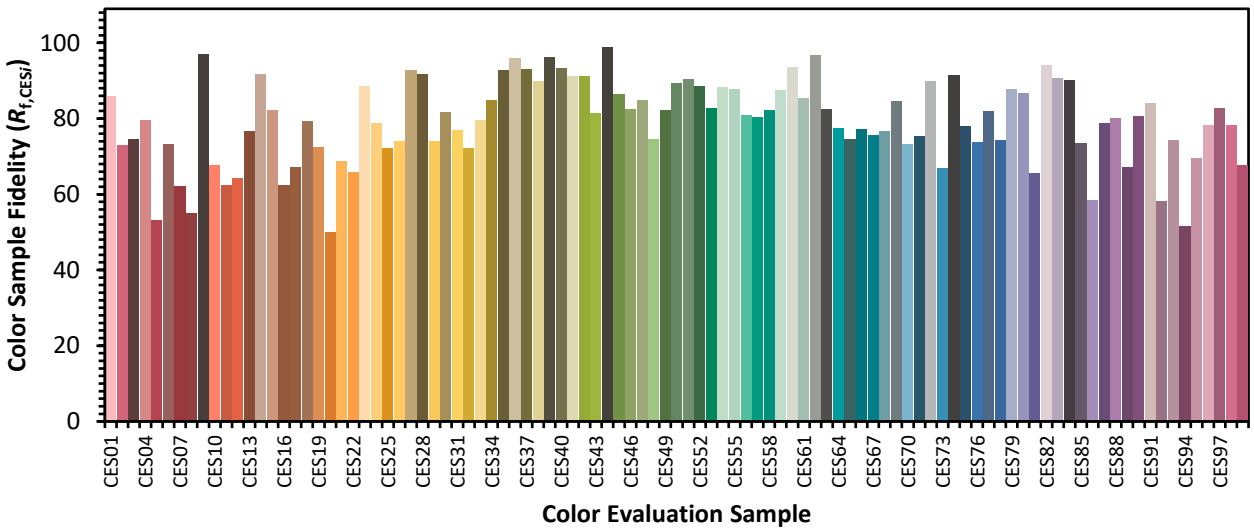


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

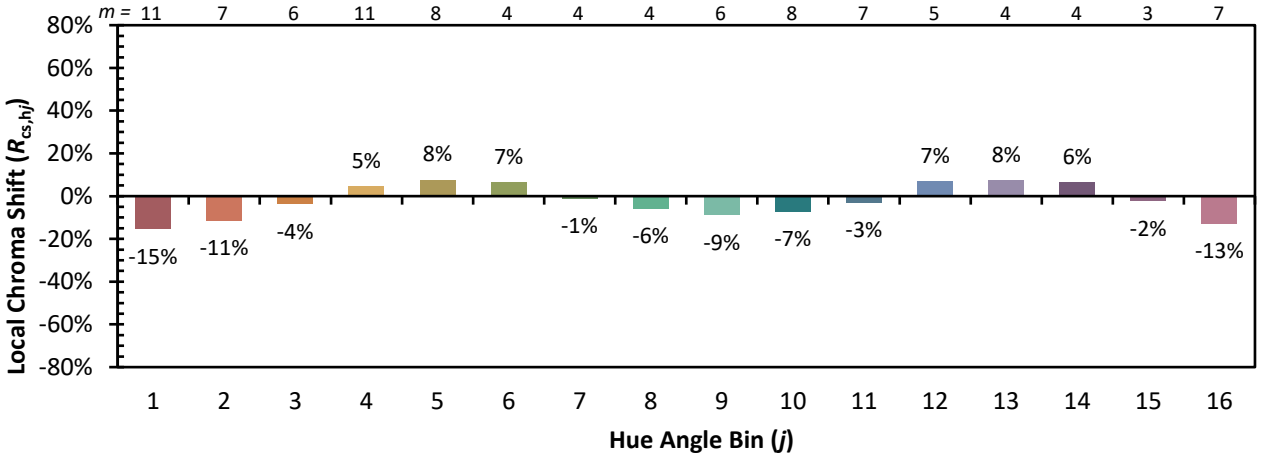
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

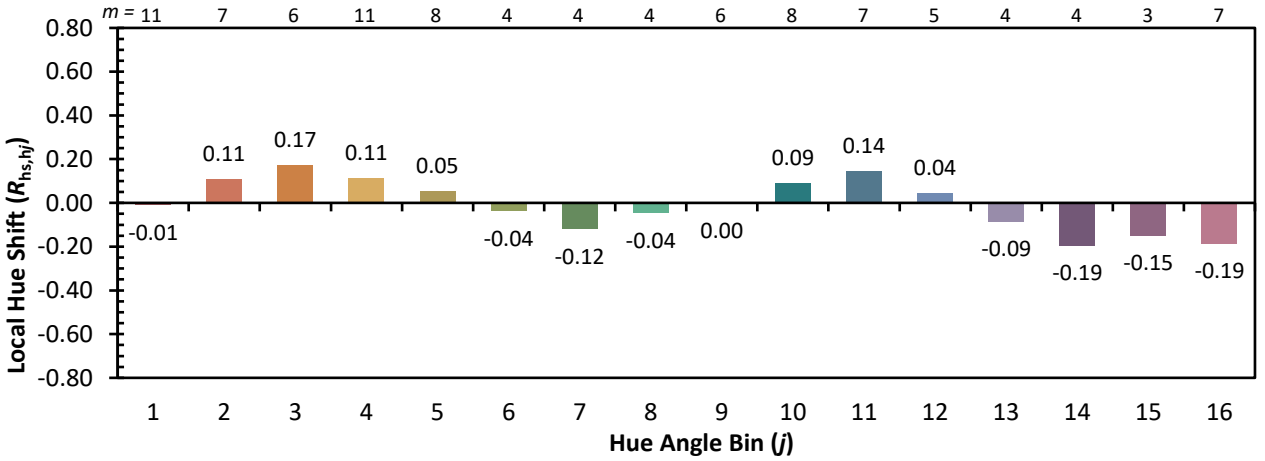


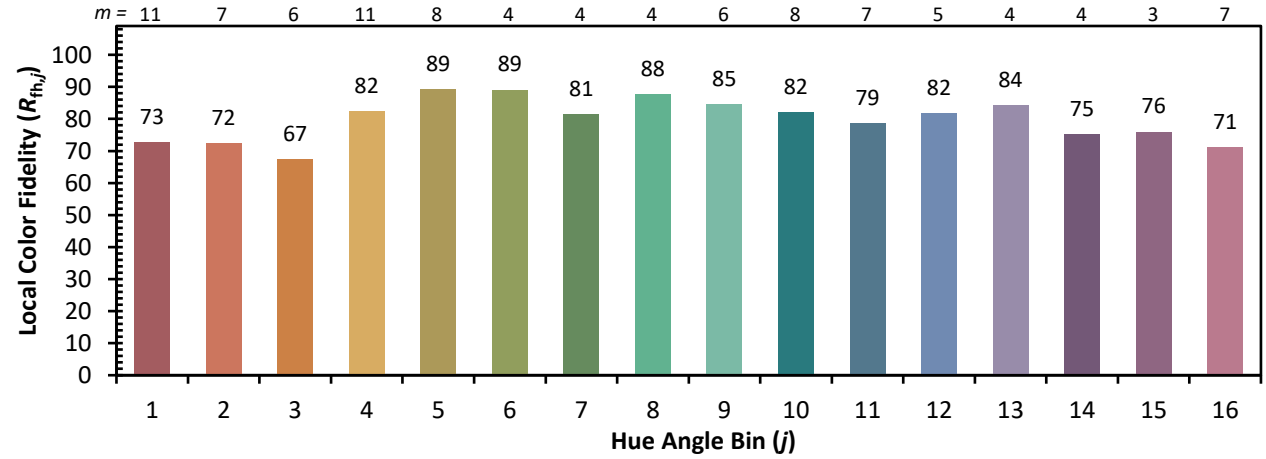
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Color Rendition by Hue-Angle Bin



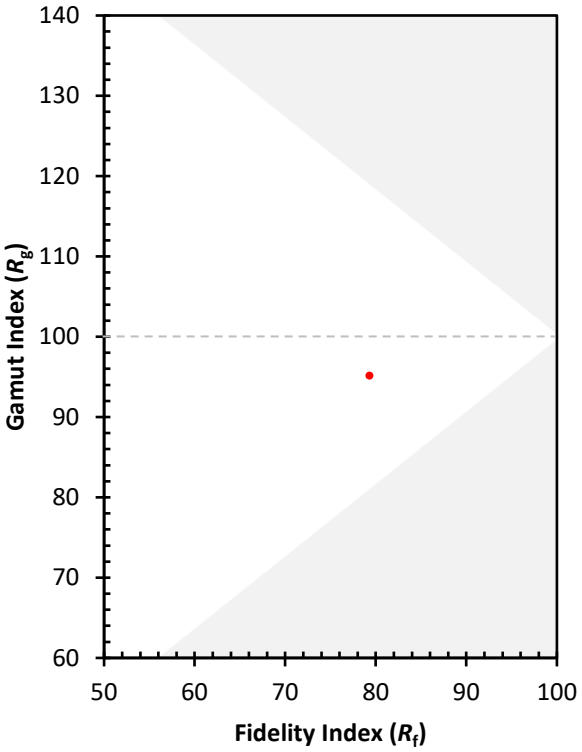


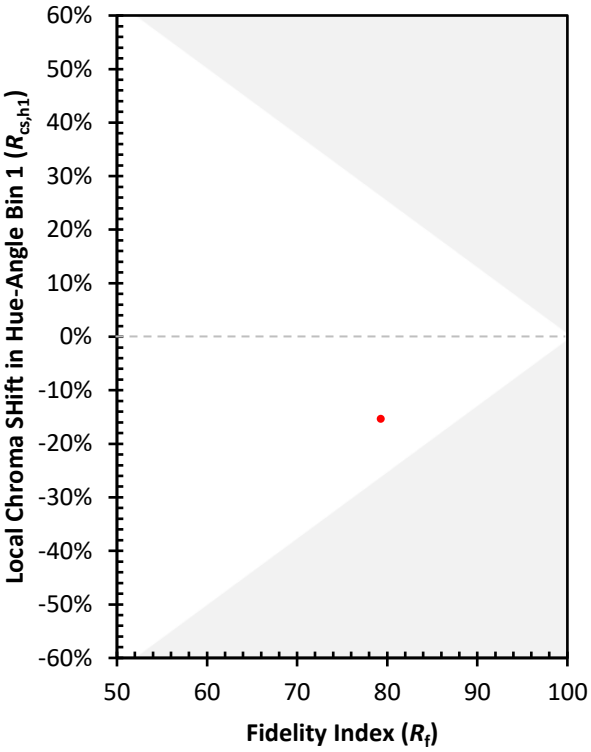


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Measure Comparisons





(END OF REPORT)