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: P1045965

Luminaire Tested: **FFX-CLB-20-722-U-PG-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045965
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-722-U-PG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1877.8 lumens
Efficiency:	N/A
Efficacy:	94.8 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

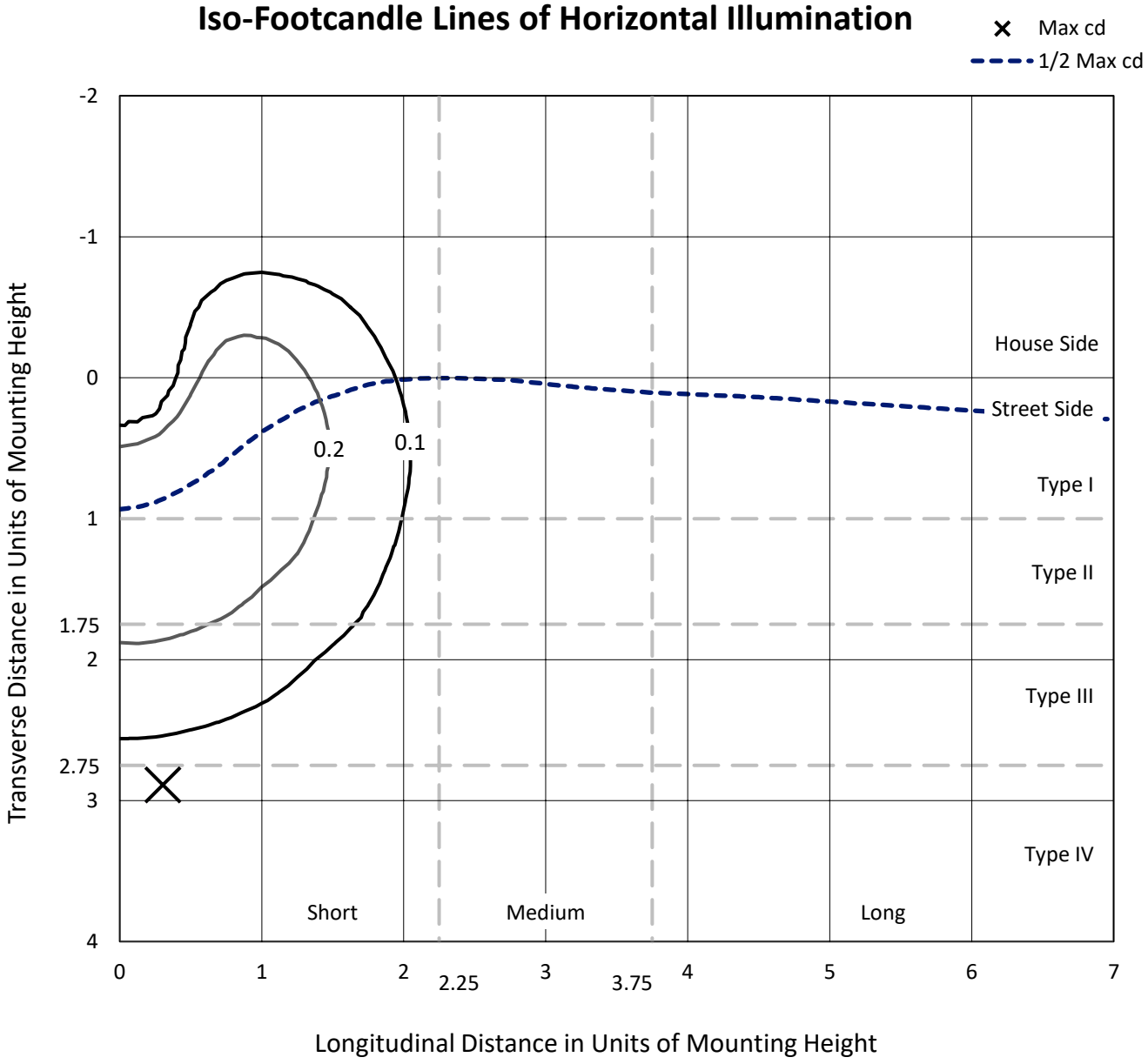


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Iso-Footcandle Lines of Horizontal Illumination



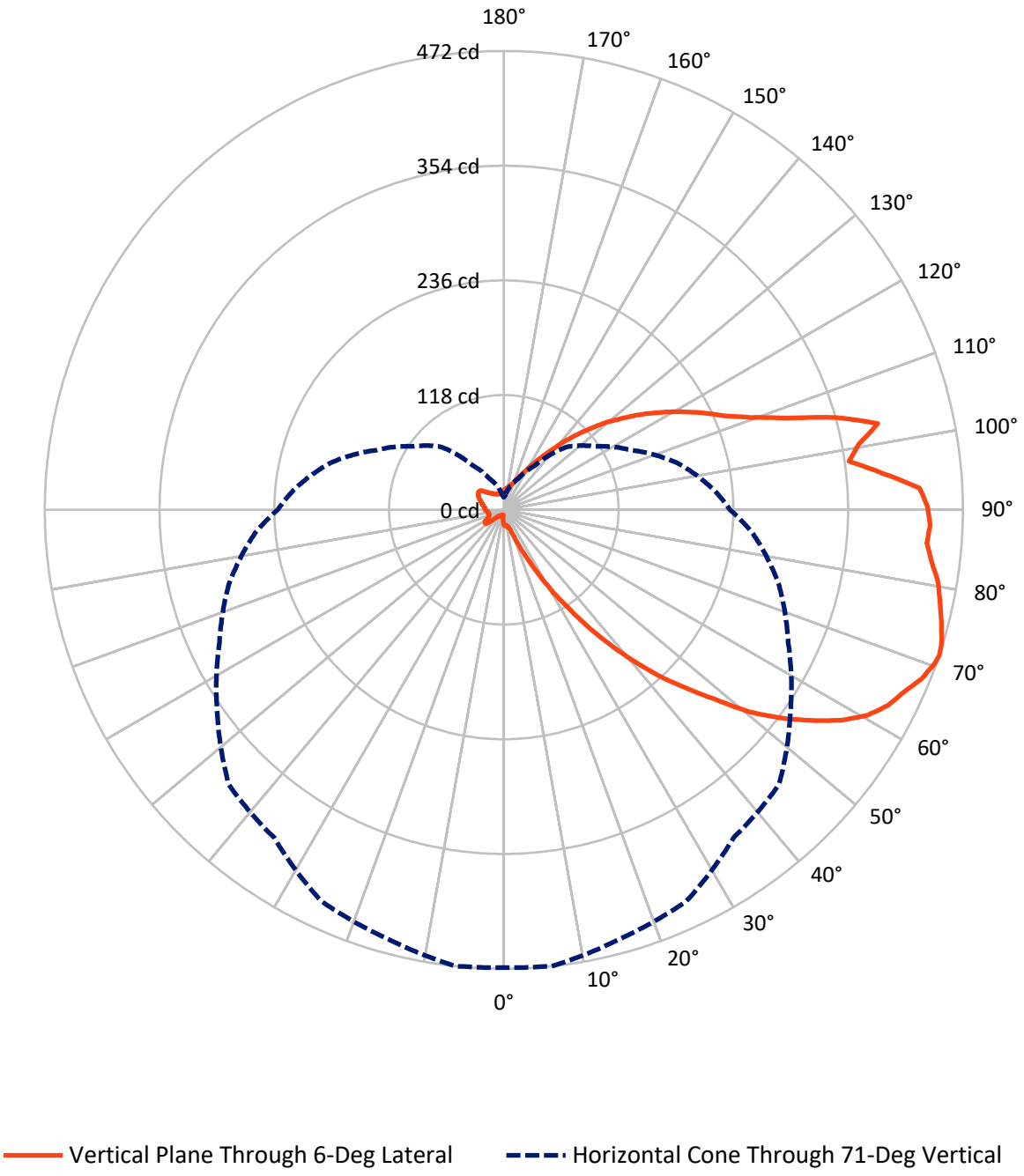
Based on 15 foot mounting height. Maximum calculated value = 0.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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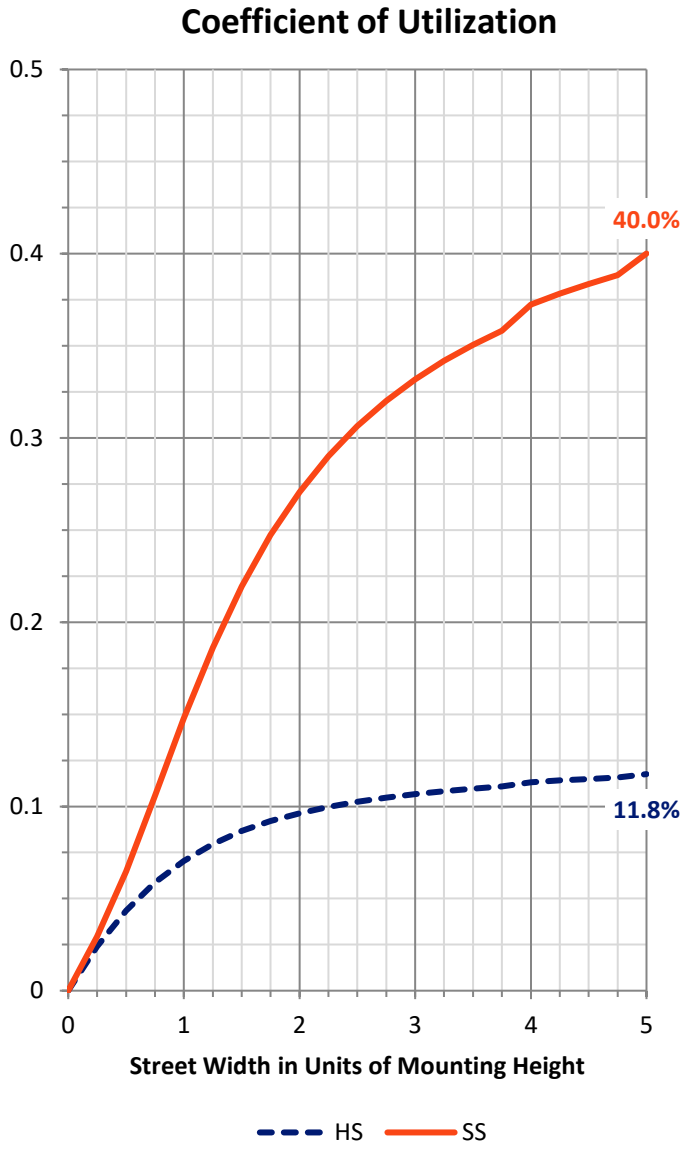
REPORT NUMBER: P1045965
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	241.1	191.2	432.4
	% Fixture	12.8	10.2	23.0
Street Side	Lumens	879.6	565.8	1445.4
	% Fixture	46.8	30.1	77.0
Total	Lumens	1120.7	757.1	1877.8
	% Fixture	59.7	40.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.1
10°-20°	3.9	0.2
20°-30°	17.8	0.9
30°-40°	59.6	3.2
40°-50°	121.5	6.5
50°-60°	186.9	10.0
60°-70°	232.6	12.4
70°-80°	248.8	13.2
80°-90°	248.3	13.2
90°-100°	224.4	12.0
100°-110°	196.3	10.5
110°-120°	133.8	7.1
120°-130°	94.5	5.0
130°-140°	57.3	3.1
140°-150°	29.0	1.5
150°-160°	13.5	0.7
160°-170°	6.2	0.3
170°-180°	1.9	0.1
0°-90°	1120.7	59.7
0°-180°	1877.8	100.0



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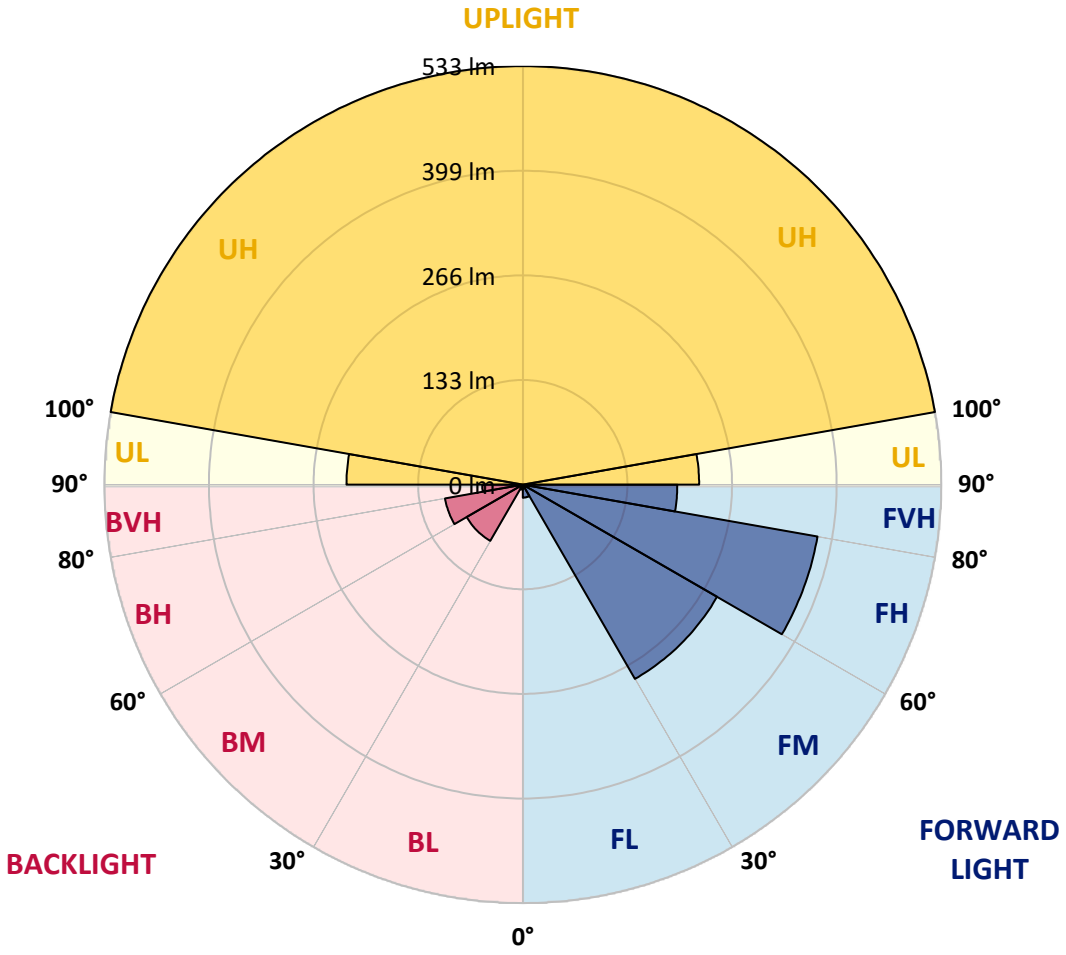
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	16.6	0.9			
FM	(30°-60°)	285.5	15.2			
FH	(60°-80°)	380.9	20.3			G0/660
FVH	(80°-90°)	196.7	10.5			G2/225
BL	(0°-30°)	6.4	0.3	B0/110		
BM	(30°-60°)	82.6	4.4	B0/220		
BH	(60°-80°)	100.5	5.4	B0/110		G0/110
BVH	(80°-90°)	51.7	2.8			G1/100
UL	(90°-100°)	224.4	12.0		U3/500	
UH	(100°-180°)	532.6	28.4		U4/1000	

BUG Rating: B0-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.3	15.9	15.7	15.5	15.3
5°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.5	15.3	14.9	14.5
7.5°	15.7	15.7	15.7	15.7	15.5	15.3	15.1	14.9	14.7	13.9	13.1
10°	17.1	17.3	17.1	17.1	16.5	15.9	15.5	14.9	14.5	14.1	13.1
12.5°	18.1	18.1	18.1	17.9	17.5	17.1	16.3	15.3	14.5	13.7	12.8
15°	18.8	18.8	18.8	18.8	18.4	17.7	17.1	16.3	15.5	14.5	13.5
17.5°	21.2	21.2	21.2	21.0	20.6	20.2	19.8	19.4	18.8	17.7	16.7
20°	27.9	28.5	28.3	27.7	27.3	26.9	27.1	26.7	26.3	24.9	23.2
22.5°	38.7	39.6	39.4	39.6	38.9	38.5	38.3	38.7	37.9	35.9	32.8
25°	54.4	54.4	53.8	55.5	55.7	53.6	54.0	53.8	53.2	49.6	44.7
27.5°	72.0	71.6	71.4	74.0	74.4	73.6	74.4	73.0	71.0	66.9	60.8
30°	92.4	94.0	94.8	95.2	96.5	97.3	98.3	97.1	91.6	86.7	78.1
32.5°	118.3	117.3	117.0	121.3	123.6	123.8	126.2	122.8	116.6	107.5	96.2
35°	146.8	144.4	144.8	147.4	151.1	153.8	155.6	148.9	142.5	130.5	115.8
37.5°	173.7	173.9	173.7	174.8	181.7	182.5	182.9	175.4	166.2	153.8	135.4
40°	201.3	201.7	202.7	206.0	213.3	211.9	208.6	201.9	190.1	176.0	154.4
42.5°	229.6	232.3	232.9	234.5	239.6	239.2	233.7	226.1	212.5	194.9	170.7
45°	260.0	259.6	260.6	262.9	266.9	266.9	257.1	246.1	231.2	211.5	185.4
47.5°	288.7	291.8	290.0	295.5	293.4	294.9	278.1	264.7	248.4	224.9	197.6
50°	325.0	326.7	326.1	325.5	319.3	319.3	302.2	284.1	265.7	238.0	209.8
52.5°	355.8	356.4	355.4	353.0	344.4	341.6	321.4	300.4	281.0	253.3	221.7
55°	384.4	380.3	382.1	378.3	364.8	361.8	342.6	312.8	294.5	264.3	231.9
57.5°	405.4	407.6	408.2	399.9	386.4	374.0	361.1	327.7	304.7	274.7	238.6
60°	423.3	429.5	429.0	416.4	404.6	382.3	375.2	340.7	311.4	283.9	245.9
62.5°	436.8	443.3	442.9	432.7	422.1	390.9	383.0	348.5	315.5	288.5	251.4
65°	450.0	453.1	451.7	447.6	435.0	398.9	390.3	352.0	318.9	290.6	253.5
67.5°	463.5	463.3	463.1	457.4	443.7	406.2	396.2	357.1	322.4	292.8	254.9
70°	470.2	470.6	470.4	458.4	445.8	411.1	399.5	359.7	323.2	292.8	256.1
71°	470.6	471.3	471.7	457.2	443.9	411.5	399.7	359.7	322.4	292.2	255.5
72.5°	467.8	470.8	470.4	454.1	441.3	410.9	398.3	358.1	321.2	289.8	253.7
75°	461.5	467.0	464.5	448.0	434.5	406.8	394.4	356.4	318.1	286.5	252.0
77.5°	456.0	462.3	458.2	442.9	430.9	404.0	392.3	356.9	315.9	284.5	251.4
80°	452.3	455.8	452.5	439.9	427.8	400.7	390.9	357.1	315.3	283.4	249.6
82.5°	446.8	445.4	443.1	433.1	420.9	394.8	385.2	353.8	313.8	281.4	247.6
85°	441.9	436.0	436.0	427.0	414.6	390.1	378.5	349.9	311.4	279.4	245.1
87.5°	444.7	436.8	438.4	429.9	416.2	390.7	377.2	349.5	312.4	279.8	243.7
90°	441.9	434.3	435.2	426.2	410.3	384.4	368.1	341.4	305.9	274.1	238.6
92.5°	437.0	429.0	427.8	418.6	402.5	378.1	360.9	336.1	300.8	269.6	236.7
95°	399.3	393.6	391.1	384.6	372.2	350.7	337.3	313.4	278.3	249.8	221.5
97.5°	360.5	361.5	358.1	350.3	336.7	319.9	305.1	282.2	252.7	228.0	200.5
100°	375.8	374.4	370.9	360.5	346.3	327.5	310.0	287.9	259.2	237.0	206.6
102.5°	392.5	395.8	394.4	381.3	365.2	350.1	336.9	314.8	283.2	259.8	227.4
105°	346.9	353.4	354.8	344.6	332.8	320.2	308.5	293.0	265.7	241.6	216.2
107.5°	302.4	303.4	304.5	296.7	290.8	279.6	267.9	253.9	233.1	214.7	189.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
110°	271.6	272.6	*271.0*	267.7	261.6	253.1	240.2	230.4	212.3	196.8	174.1
112.5°	247.1	248.2	*246.9*	242.9	237.4	230.6	217.2	209.0	193.5	179.0	158.6
115°	231.4	232.7	*230.6*	226.3	221.7	218.0	206.4	194.3	180.3	167.4	149.9
117.5°	216.6	219.0	*214.3*	213.1	209.6	206.0	192.7	182.1	169.9	158.2	144.2
120°	200.2	202.3	*198.4*	197.0	194.9	191.3	178.8	169.3	159.5	149.1	135.6
122.5°	187.2	184.3	*182.5*	182.5	180.1	177.6	164.8	156.8	149.1	140.3	126.4
125°	172.3	168.4	*167.6*	169.0	166.0	162.7	152.5	145.4	139.5	130.7	117.0
127.5°	155.6	151.9	*151.9*	152.5	150.7	147.4	140.7	134.8	131.1	121.7	108.1
130°	139.9	137.8	*138.3*	136.8	135.0	132.3	127.4	123.2	120.1	110.7	100.9
132.5°	121.1	123.4	*123.4*	120.9	120.5	118.5	114.6	112.6	107.9	100.1	92.0
135°	107.9	109.7	*109.5*	107.3	107.1	105.8	103.0	101.1	96.7	90.1	83.4
137.5°	96.7	96.7	*96.2*	94.8	94.0	93.8	91.2	89.3	85.0	80.5	75.0
140°	85.6	83.8	*83.2*	83.4	82.2	82.0	79.7	77.5	75.4	71.2	66.7
142.5°	74.2	73.0	*72.4*	71.6	71.2	70.6	69.1	67.3	65.3	62.4	58.3
145°	63.4	63.4	*63.0*	62.2	62.2	61.4	60.0	58.9	57.1	54.0	50.8
147.5°	55.1	54.4	*54.4*	54.2	53.6	53.2	52.0	50.6	49.3	46.9	43.8
150°	47.3	47.3	*46.9*	47.3	46.9	46.3	45.5	44.3	42.8	41.0	38.5
152.5°	41.2	41.4	*41.0*	41.6	41.2	40.8	39.8	38.9	37.3	35.7	34.1
155°	36.7	36.9	*36.7*	36.5	36.5	35.9	35.5	34.3	33.2	31.8	30.4
157.5°	32.6	32.8	*32.8*	32.8	32.8	32.2	31.4	30.6	29.8	28.5	27.3
160°	30.0	29.8	*29.8*	29.6	29.4	29.2	28.5	27.7	27.1	26.1	25.1
162.5°	27.3	27.3	*27.3*	27.1	26.9	26.7	26.3	25.5	24.9	24.1	23.2
165°	25.5	25.5	*25.5*	25.5	25.1	24.9	24.5	23.9	23.5	22.6	21.8
167.5°	24.3	24.3	*24.3*	24.1	23.9	23.7	23.5	22.8	22.4	21.8	21.2
170°	23.2	23.2	*23.2*	23.2	23.0	22.6	22.4	22.0	21.6	21.2	20.6
172.5°	22.2	22.2	*22.2*	22.2	22.0	22.0	21.8	21.4	21.2	20.6	20.4
175°	21.4	21.4	*21.4*	21.4	21.2	21.2	21.0	20.8	20.6	20.4	20.0
177.5°	20.8	20.8	*20.8*	20.8	20.6	20.6	20.6	20.4	20.2	20.0	20.0
180°	20.0	20.0	*20.0*	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	15.3	15.3	14.9	14.7	14.5	14.1	13.7	13.1	13.1	13.1	12.8
5°	14.3	14.1	13.7	13.1	12.8	12.6	12.2	11.4	10.4	9.6	9.6
7.5°	13.3	12.2	11.2	10.8	10.2	9.2	8.2	6.9	5.5	5.3	5.3
10°	12.4	11.8	10.6	9.6	8.6	8.4	7.5	6.3	5.7	5.1	5.1
12.5°	12.2	11.8	10.4	9.2	8.0	7.3	6.7	6.1	5.5	5.1	5.1
15°	12.8	12.4	11.0	9.6	8.2	7.3	6.5	5.9	5.7	5.5	5.5
17.5°	16.1	15.5	13.5	11.2	9.4	8.2	7.1	6.5	6.3	6.1	6.1
20°	21.8	20.8	17.9	14.9	12.0	9.4	8.0	6.9	6.7	6.5	6.5
22.5°	31.0	29.2	24.3	19.6	15.3	11.8	9.2	7.3	6.7	6.5	6.5
25°	42.2	39.8	32.6	25.7	19.4	15.1	11.2	8.4	6.7	6.3	6.3
27.5°	57.1	52.8	43.2	34.5	25.9	19.2	14.1	10.0	7.3	6.3	6.1
30°	72.8	67.5	55.3	43.6	32.8	24.1	17.3	12.0	8.4	6.3	6.1
32.5°	89.9	82.8	69.3	54.9	40.8	29.8	21.2	14.1	9.6	6.7	6.3
35°	107.5	99.5	82.8	66.7	48.9	35.5	25.3	16.3	10.4	7.1	6.7
37.5°	125.2	116.2	98.1	77.3	56.9	41.4	29.4	18.8	11.2	7.5	7.1
40°	142.9	132.1	112.2	87.3	64.6	47.3	33.2	20.8	11.8	8.2	8.0
42.5°	156.8	145.8	123.8	95.6	72.8	52.6	37.1	22.4	12.4	9.2	8.8
45°	169.5	157.8	133.6	103.2	79.1	58.9	41.6	25.1	13.7	10.4	10.0
47.5°	182.3	170.9	143.8	110.5	85.2	65.3	46.9	27.9	16.9	13.5	13.3
50°	193.5	180.9	154.8	120.5	93.0	71.2	52.4	31.4	20.0	19.6	19.8
52.5°	204.3	191.7	164.2	127.9	98.3	78.3	57.7	32.8	22.6	23.0	23.5
55°	216.4	201.7	171.7	133.6	101.3	83.0	60.8	34.1	25.1	23.5	23.0
57.5°	224.5	207.6	177.8	139.9	104.6	85.8	61.0	35.5	27.1	22.6	22.0
60°	230.0	210.9	181.1	143.4	109.1	88.5	60.4	35.7	28.3	20.8	19.0
62.5°	233.7	215.1	183.9	144.2	112.6	90.5	60.2	34.9	27.9	18.6	17.1
65°	235.3	218.8	186.6	144.6	113.2	92.0	60.2	34.5	27.3	16.3	14.7
67.5°	235.3	220.0	187.6	145.4	112.8	92.4	58.3	35.7	26.5	15.5	13.5
70°	234.1	219.4	186.2	145.2	113.6	92.0	56.3	35.7	25.3	15.5	12.8
71°	*232.5*	*218.2*	*185.2*	*145.0*	*113.8*	*91.6*	*55.5*	*35.5*	*24.7*	*15.1*	*13.1*
72.5°	230.2	216.4	183.3	144.6	113.2	90.3	53.8	35.7	24.1	14.9	13.3
75°	227.8	214.9	181.9	142.9	113.0	88.5	51.0	35.1	23.9	15.1	13.7
77.5°	227.0	215.1	181.1	142.5	113.0	87.5	48.9	34.7	23.5	15.3	14.5
80°	225.1	214.7	179.4	141.5	112.6	85.6	48.3	34.7	23.0	15.5	14.9
82.5°	223.3	213.7	178.0	140.5	112.0	83.2	47.7	34.5	22.6	16.1	15.7
85°	221.7	213.5	178.0	139.9	111.7	81.8	47.5	34.3	22.4	16.7	16.3
87.5°	221.7	214.5	179.9	141.5	113.6	81.8	48.3	34.7	22.6	17.5	17.3
90°	217.6	210.0	177.0	140.5	114.2	82.0	49.1	35.7	23.5	18.4	17.9
92.5°	216.4	208.0	176.2	141.5	115.0	82.0	50.2	36.7	24.1	18.8	18.4
95°	202.9	193.5	165.8	134.4	109.9	79.7	50.6	36.5	24.5	19.0	18.8
97.5°	184.1	173.9	147.8	119.5	97.3	71.6	46.1	34.3	24.3	19.6	19.2
100°	190.5	178.4	151.1	121.5	95.6	70.1	45.3	33.2	24.9	20.4	20.0
102.5°	208.0	194.9	166.2	134.6	104.2	77.5	50.6	35.3	26.1	21.4	20.8
105°	197.6	183.1	160.5	130.3	101.6	77.5	50.8	35.9	27.3	22.2	21.8
107.5°	174.6	161.1	141.3	116.0	93.0	71.6	48.1	34.9	28.3	23.2	22.6

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

Scaled Data Report

REPORT NUMBER: P1045965
CATALOG NUMBER: FFX-CLB-20-722-U-PG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	161.3	146.8	128.7	105.8	86.5	66.5	46.3	34.3	29.0	24.5	23.7
112.5°	147.2	134.8	117.3	97.3	80.5	61.4	45.1	34.1	29.4	25.7	24.9
115°	139.3	126.4	111.3	92.0	76.7	59.7	44.7	35.1	30.8	27.3	26.5
117.5°	132.3	121.7	108.3	87.9	74.0	59.1	45.5	36.3	31.8	28.8	27.7
120°	125.2	115.4	103.2	84.6	71.8	57.1	45.7	36.9	32.6	30.0	29.4
122.5°	120.9	109.9	97.9	81.8	69.1	55.7	45.5	37.7	32.8	30.6	30.6
125°	113.0	104.2	92.2	78.1	65.3	54.9	45.5	37.3	33.4	31.4	31.0
127.5°	104.2	98.5	86.5	74.0	62.6	52.8	44.3	37.3	33.2	31.4	31.4
130°	96.0	90.9	81.2	68.5	60.2	50.0	42.4	35.5	32.0	30.8	30.8
132.5°	86.9	83.6	74.4	63.2	55.3	46.5	40.0	32.8	30.0	29.0	29.0
135°	78.5	75.4	66.9	57.5	50.4	43.2	37.1	31.0	27.5	26.3	26.3
137.5°	70.8	67.9	60.4	52.4	45.9	40.0	34.3	29.2	25.7	24.3	24.5
140°	62.8	59.3	54.2	47.5	41.6	36.9	31.4	27.3	24.1	22.8	22.6
142.5°	55.7	53.0	48.3	42.6	37.5	33.9	29.0	25.5	22.8	21.6	21.4
145°	49.1	46.9	42.8	38.1	34.1	30.6	26.7	23.9	21.6	20.6	20.4
147.5°	42.2	40.8	37.7	34.1	30.6	27.5	24.9	22.2	20.8	19.6	19.4
150°	37.1	36.1	33.6	30.6	27.9	25.5	23.5	21.0	19.8	19.0	18.8
152.5°	33.0	32.0	30.0	27.7	25.5	23.7	21.8	20.2	19.0	18.4	18.1
155°	29.6	28.8	27.1	25.3	23.5	21.8	20.4	19.2	18.4	17.7	17.7
157.5°	26.9	26.1	24.9	23.2	21.8	20.4	19.4	18.4	17.9	17.3	17.3
160°	24.7	24.1	23.0	21.6	20.4	19.4	18.6	17.7	17.5	17.1	17.1
162.5°	22.8	22.4	21.4	20.4	19.6	18.8	18.1	17.5	17.1	16.9	16.9
165°	21.6	21.2	20.6	19.8	19.0	18.4	17.9	17.3	17.1	17.1	16.9
167.5°	21.0	20.6	20.0	19.2	18.6	18.4	17.9	17.5	17.3	17.3	17.1
170°	20.4	20.2	19.8	19.2	18.6	18.4	18.1	17.7	17.7	17.5	17.5
172.5°	20.2	20.0	19.6	19.2	18.8	18.6	18.4	18.1	18.1	18.1	17.9
175°	20.0	20.0	19.6	19.2	19.0	19.0	18.8	18.6	18.6	18.6	18.6
177.5°	20.0	19.8	19.8	19.6	19.4	19.4	19.4	19.2	19.2	19.2	19.2
180°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-7

Test Date: 03/25/2025

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

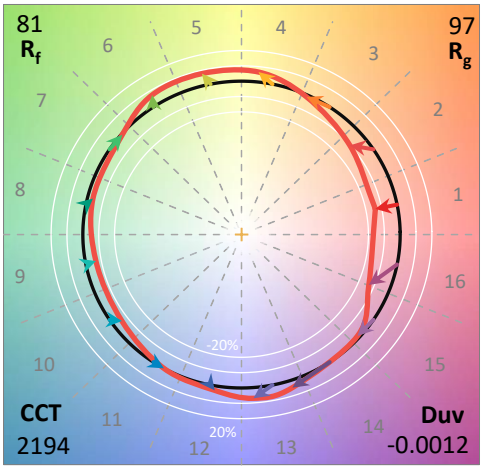
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

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

Rf:	81
Rg:	96.6



Test Conditions

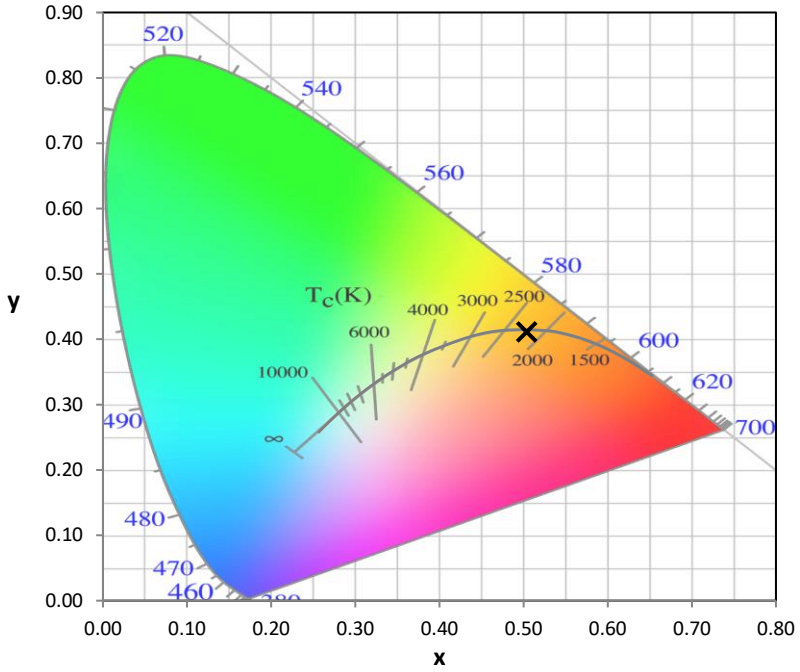
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

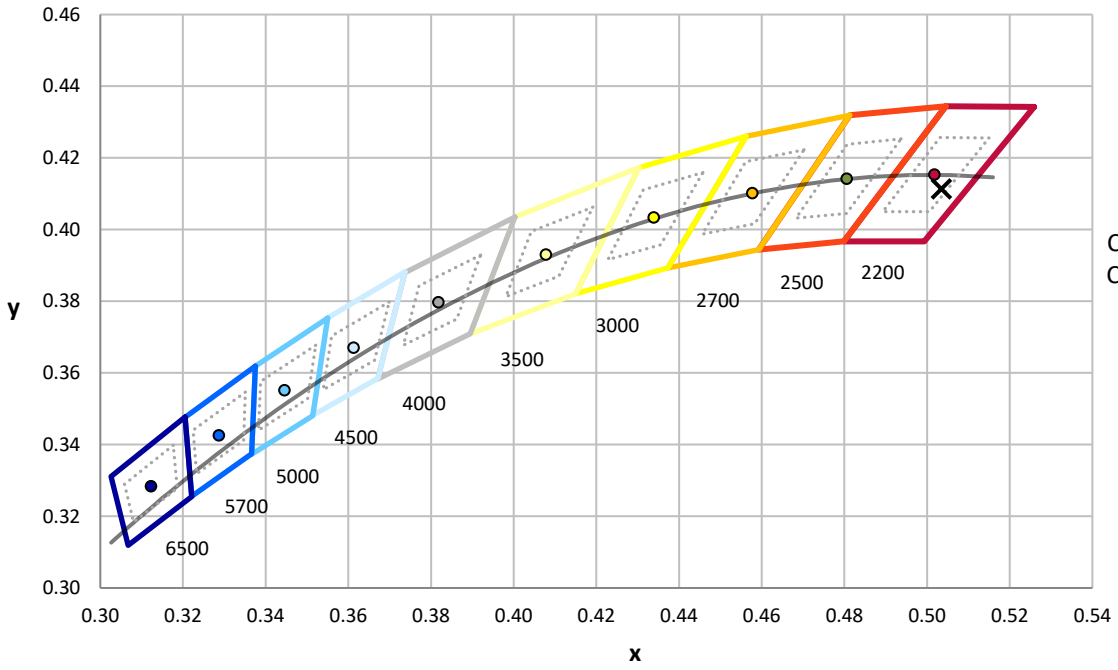
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

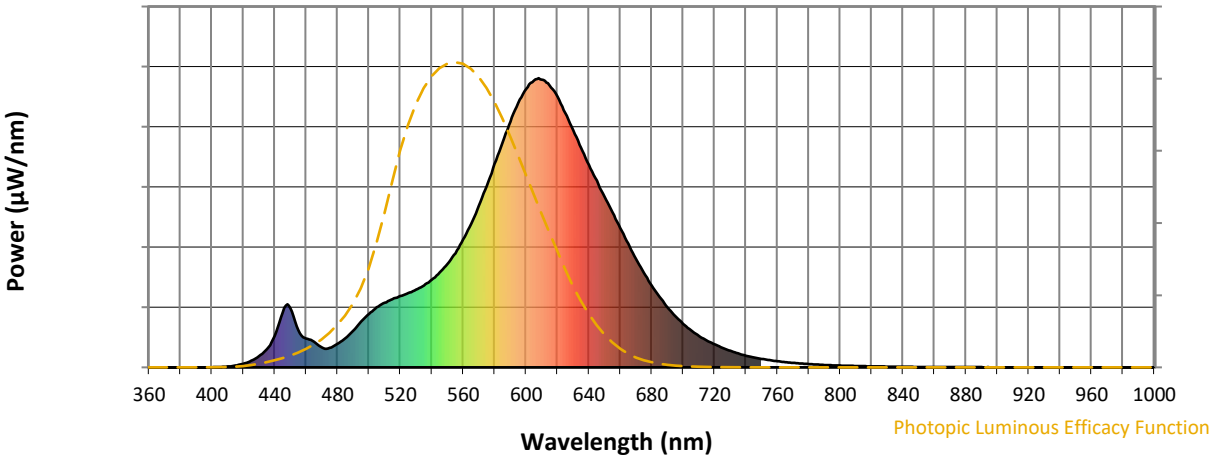


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

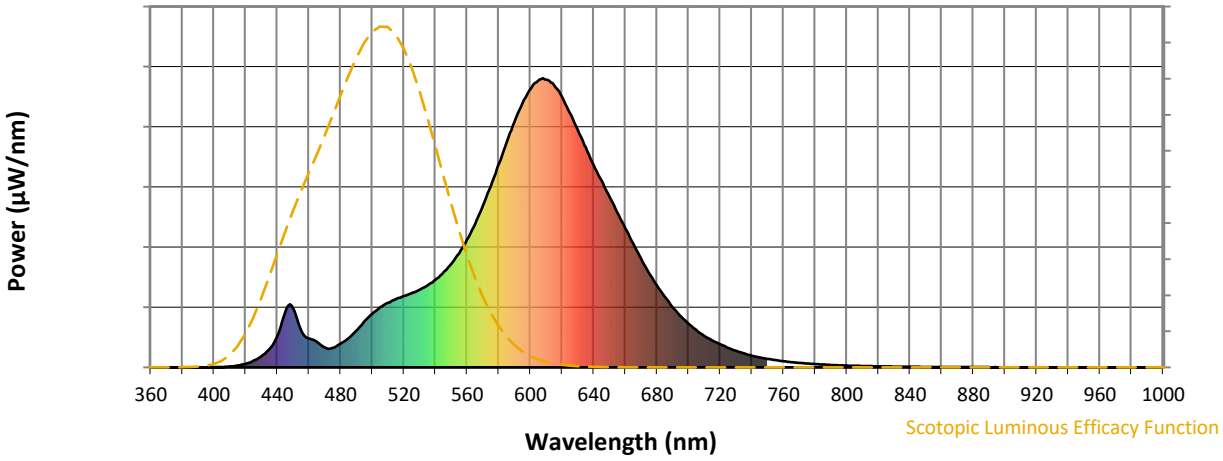


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

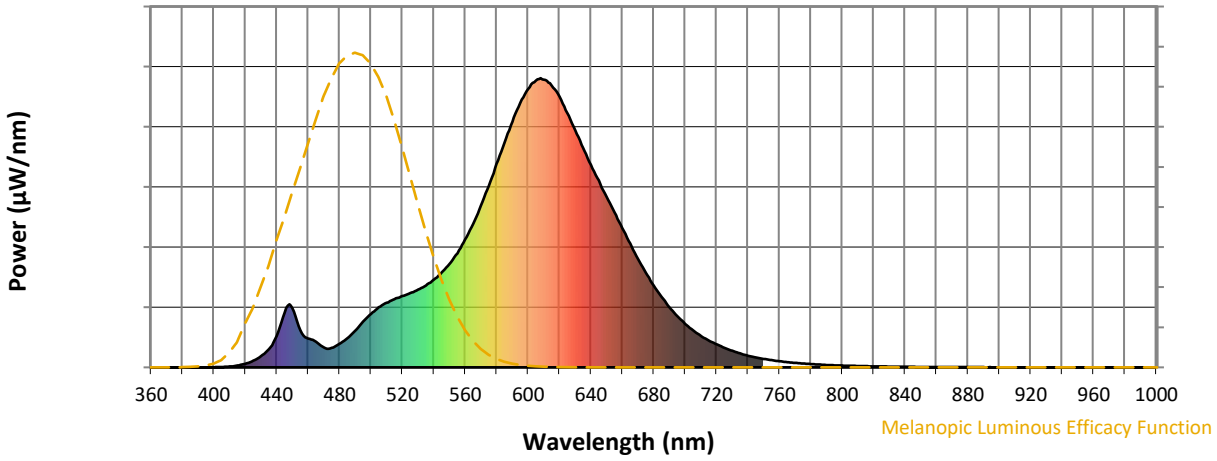


Scotopic Lumens: NR **S/P: 0.96**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



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

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

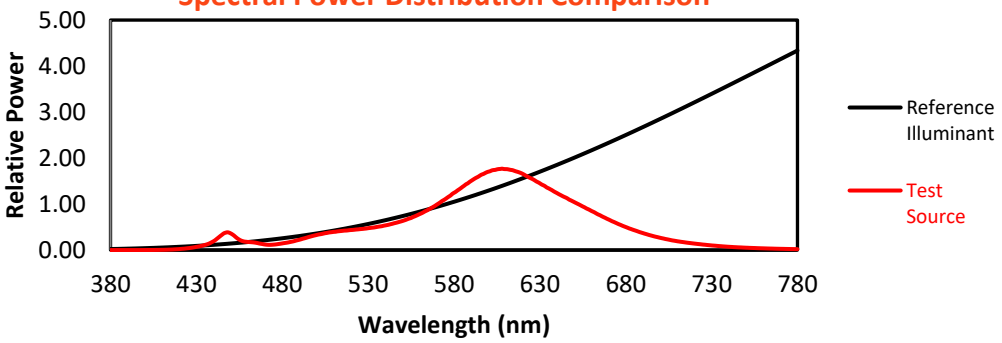
REPORT NUMBER: SP1-2501-332-7

TM-30-18

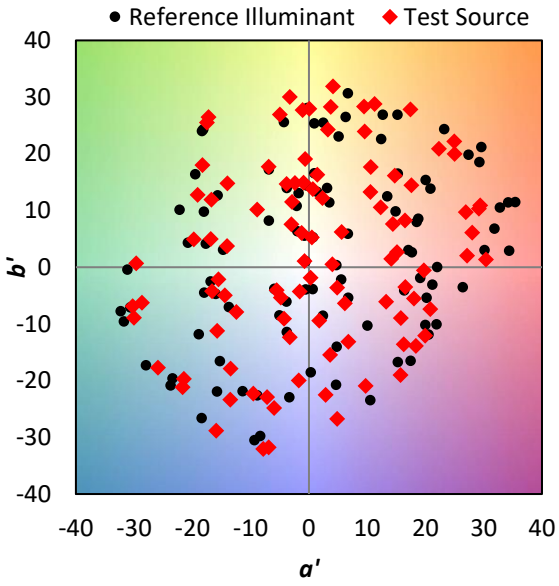
Summary

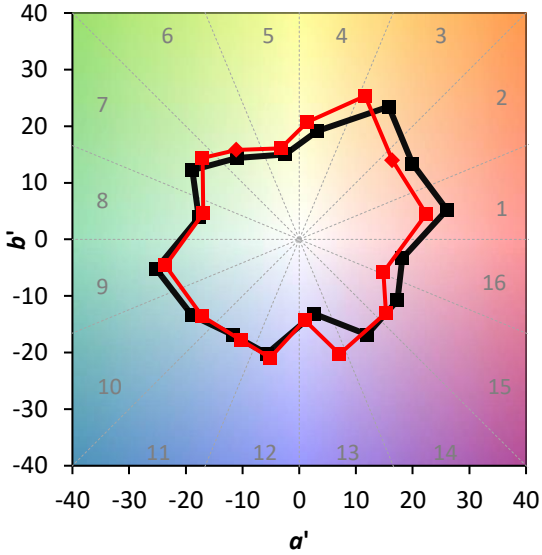
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

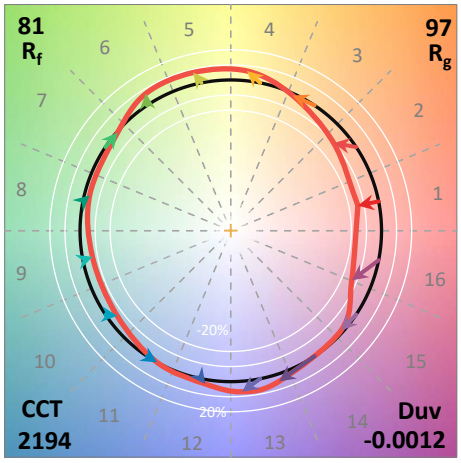
Spectral Power Distribution Comparison

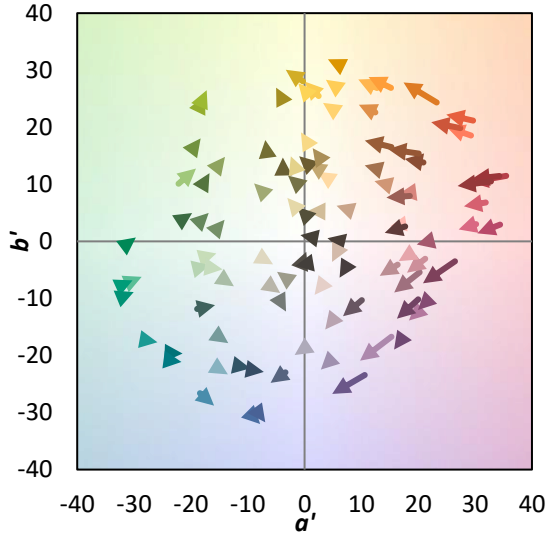


Color Vector Graphics







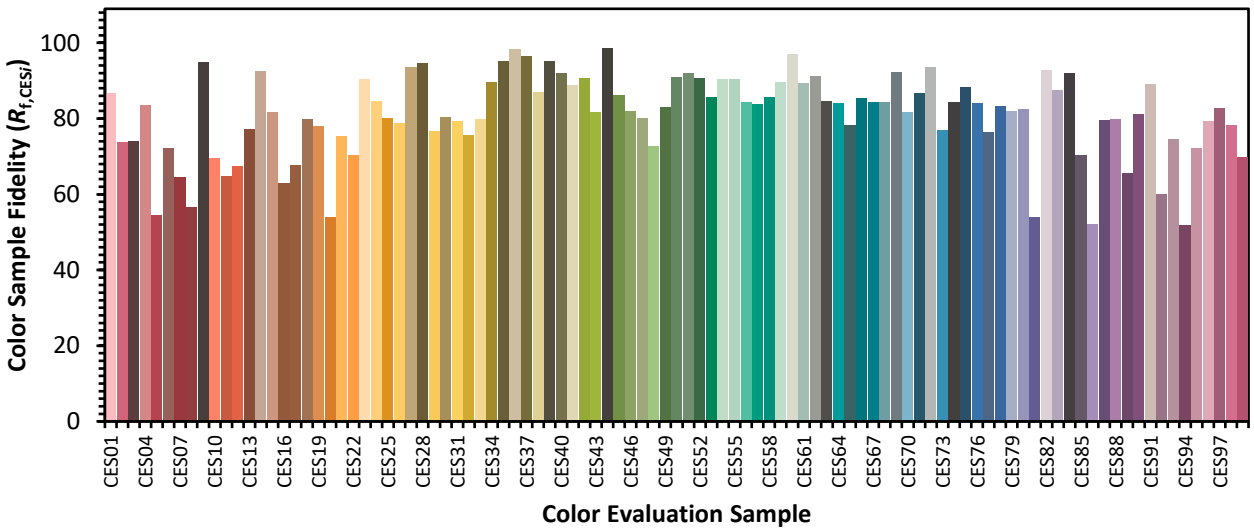


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

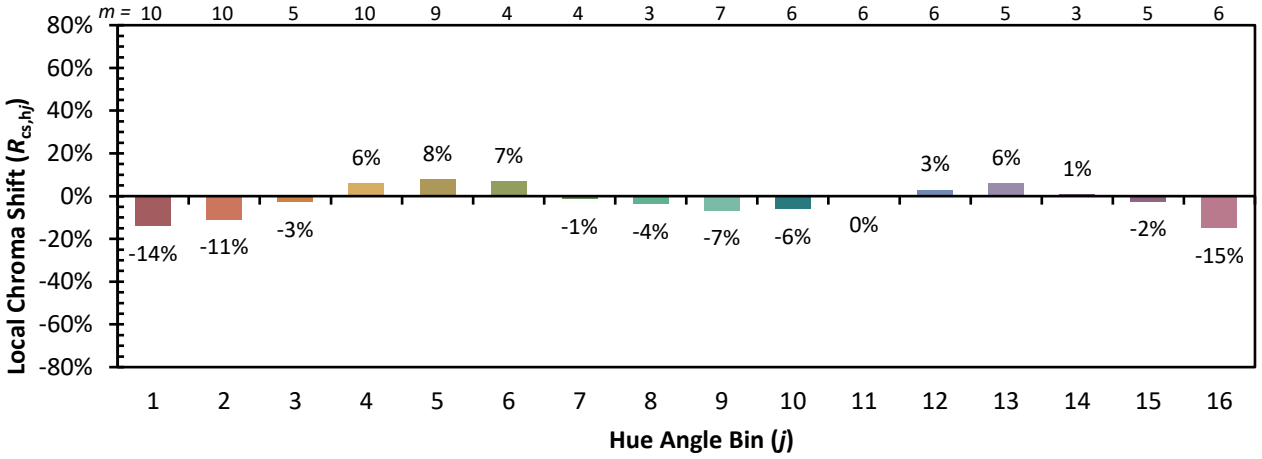
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57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

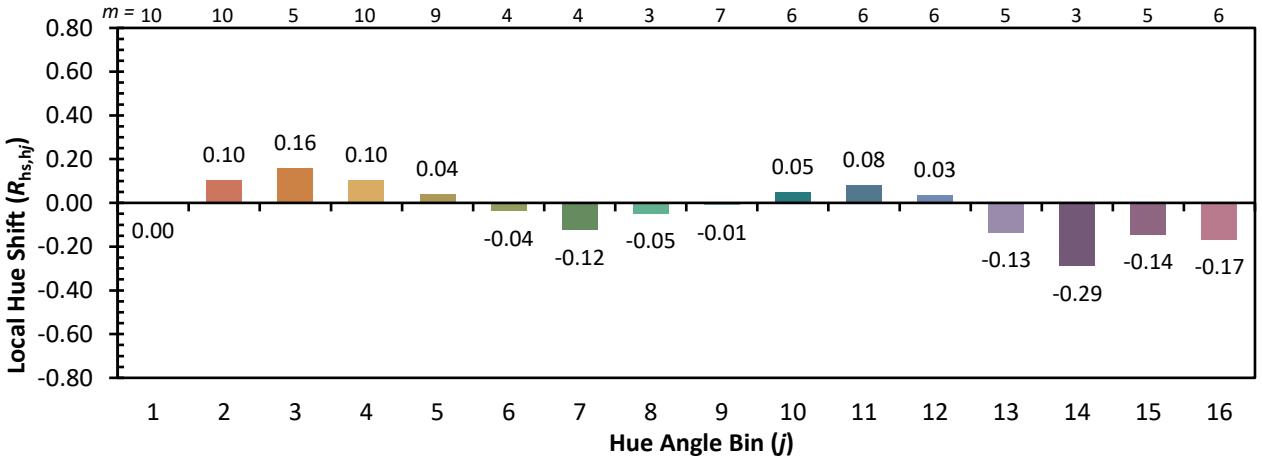


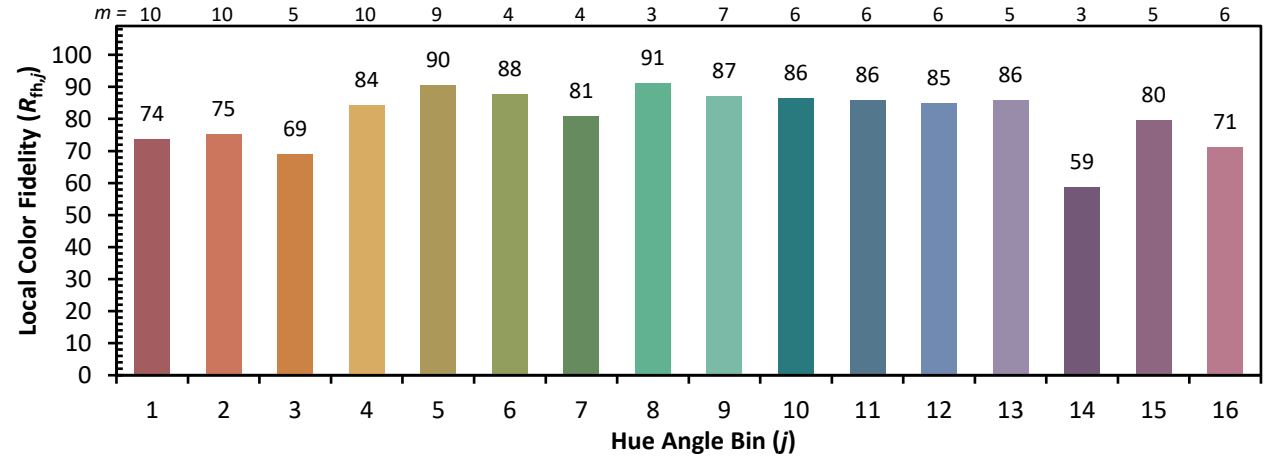
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Color Rendition by Hue-Angle Bin



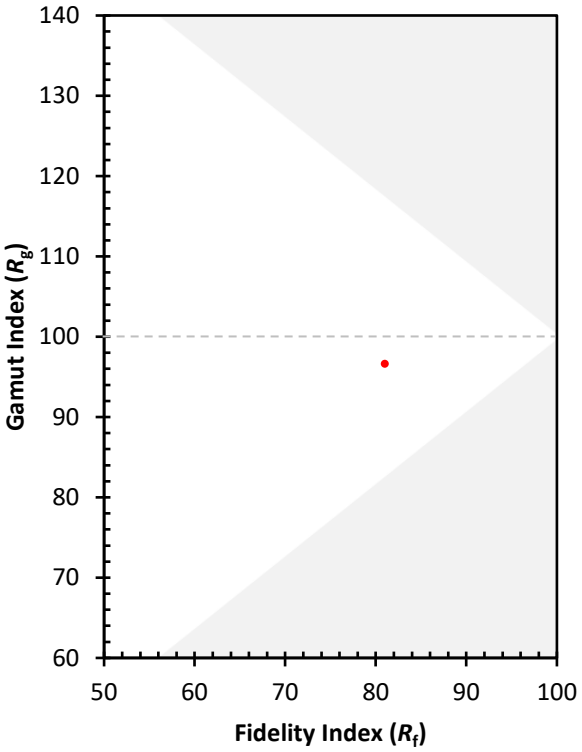


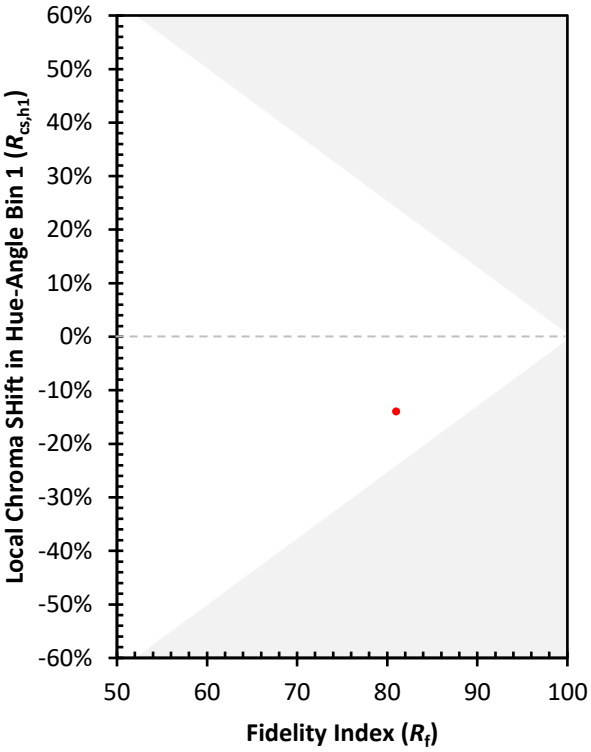


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Measure Comparisons





(END OF REPORT)