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: P1045947

Luminaire Tested: **FFX-CLB-20-740-U-FG-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:	P1045947
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-740-U-FG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2424.2 lumens
Efficiency:	N/A
Efficacy:	122.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U4 - G3

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

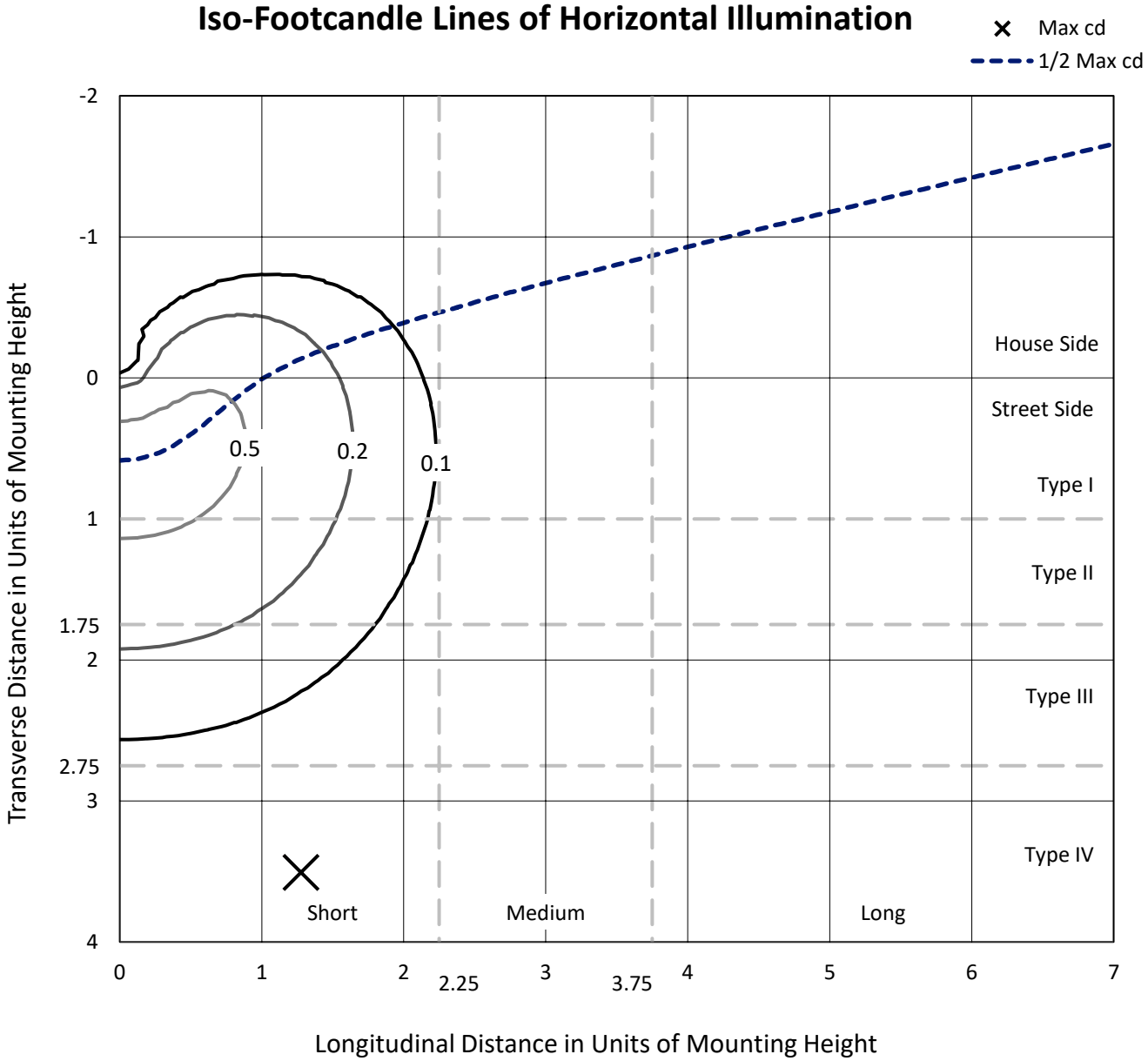


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Iso-Footcandle Lines of Horizontal Illumination



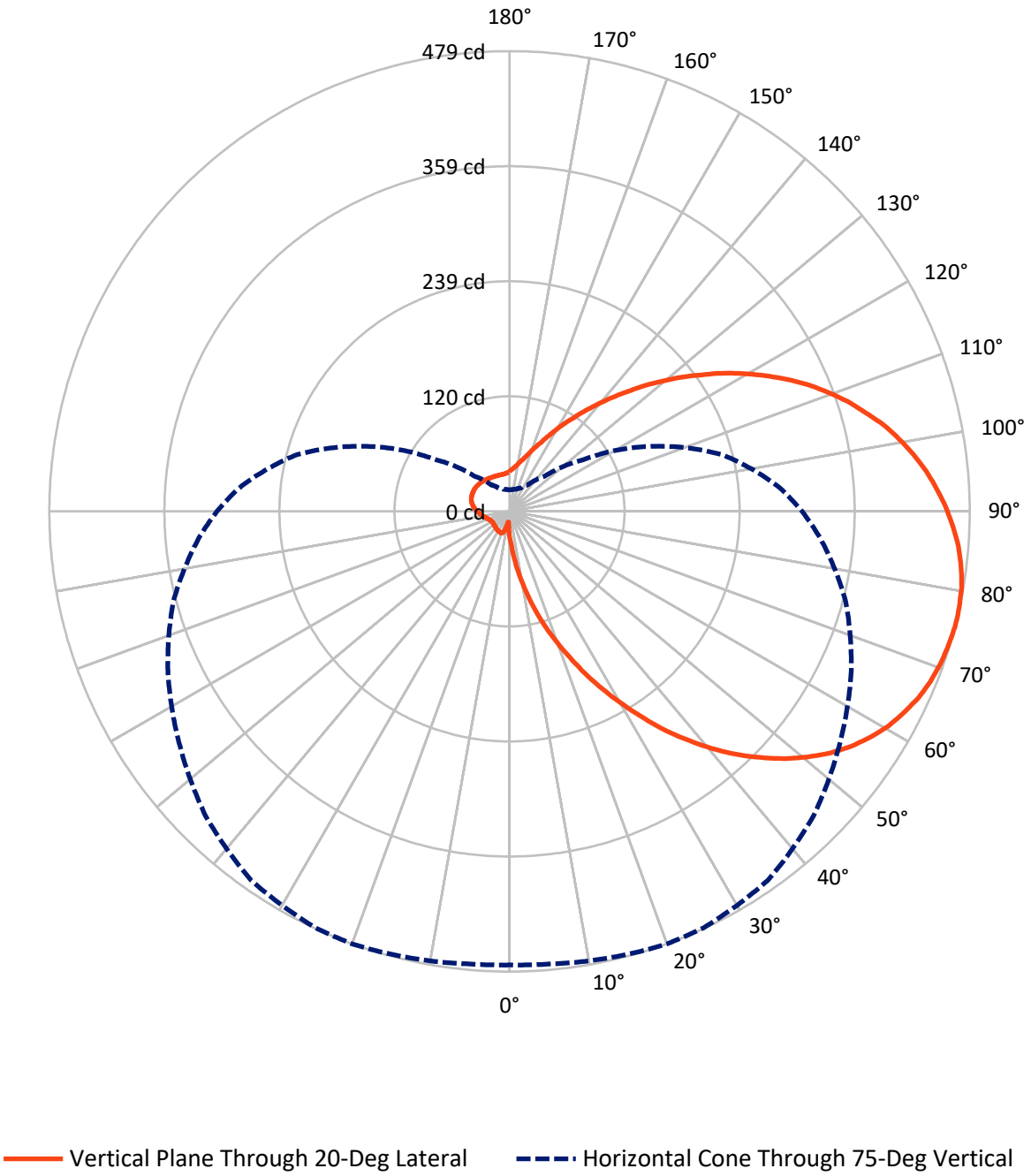
Based on 15 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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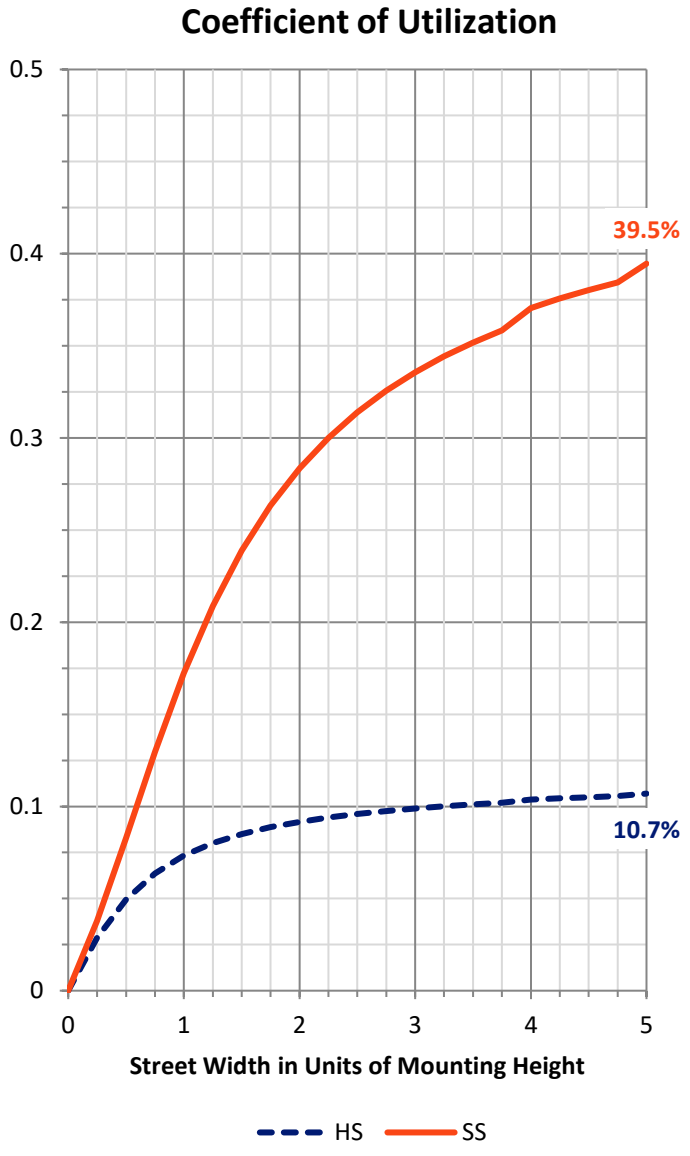
REPORT NUMBER: P1045947
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	280.3	266.6	546.9
	% Fixture	11.6	11.0	22.6
Street Side	Lumens	1100.6	776.8	1877.3
	% Fixture	45.4	32.0	77.4
Total	Lumens	1380.8	1043.4	2424.2
	% Fixture	57.0	43.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.1
10°-20°	20.2	0.8
20°-30°	53.6	2.2
30°-40°	103.5	4.3
40°-50°	162.1	6.7
50°-60°	216.7	8.9
60°-70°	256.8	10.6
70°-80°	279.8	11.5
80°-90°	284.8	11.7
90°-100°	270.1	11.1
100°-110°	238.8	9.9
110°-120°	193.9	8.0
120°-130°	142.7	5.9
130°-140°	94.6	3.9
140°-150°	55.8	2.3
150°-160°	29.5	1.2
160°-170°	13.9	0.6
170°-180°	4.1	0.2
0°-90°	1380.8	57.0
0°-180°	2424.2	100.0



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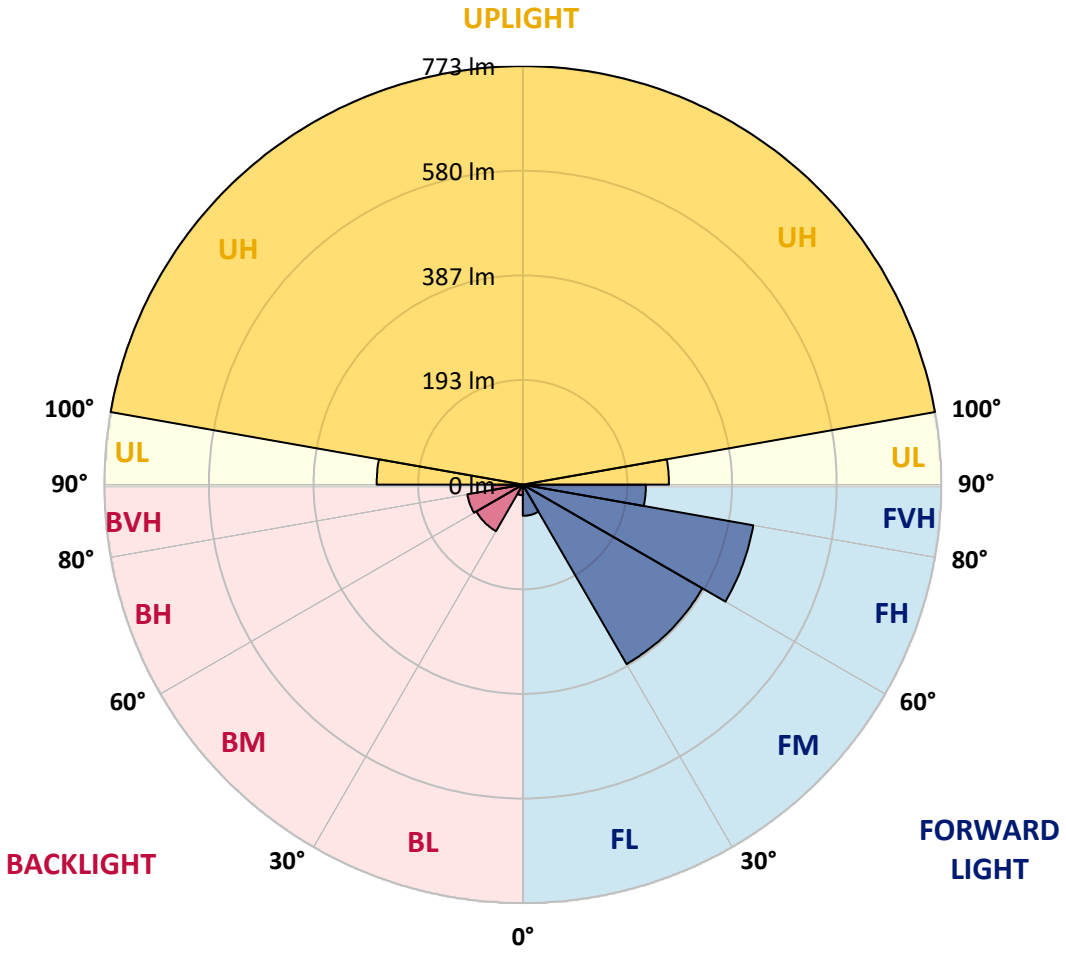
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	57.7	2.4			
FM	(30°-60°)	383.0	15.8			
FH	(60°-80°)	432.5	17.8			G0/660
FVH	(80°-90°)	227.4	9.4			G3/500
BL	(0°-30°)	19.6	0.8	B0/110		
BM	(30°-60°)	99.2	4.1	B0/220		
BH	(60°-80°)	104.1	4.3	B0/110		G0/110
BVH	(80°-90°)	57.4	2.4			G1/100
UL	(90°-100°)	270.1	11.1		U3/500	
UH	(100°-180°)	773.3	31.9		U4/1000	

BUG Rating: B0-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	33.9	33.9	34.1	34.1	34.4	33.9	33.1	32.6	31.8	30.1	28.5
5°	47.1	47.4	46.9	47.1	47.4	46.1	44.3	42.0	38.7	35.7	32.4
7.5°	63.2	63.9	62.7	62.4	61.6	59.6	57.1	53.5	49.9	45.9	41.0
10°	80.7	80.5	79.0	77.2	76.7	74.1	70.8	67.5	62.2	57.1	52.0
12.5°	97.3	97.1	95.8	94.5	93.7	90.4	86.4	82.5	76.9	70.3	63.9
15°	114.6	114.9	113.6	112.8	111.3	108.0	104.7	99.1	93.5	85.8	78.2
17.5°	131.9	132.5	131.2	130.7	129.4	126.6	122.3	116.4	109.3	100.4	90.7
20°	151.1	151.6	150.8	149.0	147.5	144.4	140.6	133.2	125.3	116.2	103.7
22.5°	171.4	171.7	169.4	168.9	167.4	164.6	158.9	152.3	143.4	131.7	118.7
25°	191.6	191.6	191.0	190.5	188.2	184.9	179.3	171.2	161.2	148.8	133.5
27.5°	213.2	213.5	212.2	211.7	209.9	205.6	199.7	190.8	180.6	165.6	148.3
30°	236.1	235.9	234.6	233.6	232.8	228.5	221.9	212.7	200.0	182.6	165.1
32.5°	259.1	258.3	257.5	256.5	256.3	250.6	245.3	234.1	220.8	202.5	181.4
35°	282.5	280.7	280.2	280.5	279.2	274.6	266.7	255.7	240.5	221.4	197.4
37.5°	302.9	304.4	303.1	302.1	302.4	297.3	288.9	276.6	260.6	239.4	213.7
40°	325.5	324.5	324.5	324.5	323.8	319.2	310.3	296.8	278.4	256.0	228.0
42.5°	345.2	345.2	346.4	345.7	344.9	339.5	329.9	314.8	295.5	271.3	241.7
45°	365.3	364.8	366.3	365.3	364.8	359.2	349.0	333.4	313.1	286.6	255.5
47.5°	383.9	384.1	384.6	384.6	384.1	377.8	367.1	348.7	328.1	299.8	267.2
50°	399.9	401.2	402.7	401.7	402.2	395.3	383.4	364.8	340.8	312.3	277.7
52.5°	415.7	415.7	417.7	417.7	417.2	410.6	397.1	377.5	353.8	323.5	287.3
55°	429.2	429.5	431.2	431.5	431.2	423.6	409.3	388.2	363.5	332.9	295.2
57.5°	439.4	440.2	442.5	443.2	442.2	435.3	419.3	397.9	371.6	340.3	302.1
60°	448.6	449.6	452.1	453.2	452.4	445.0	428.2	405.3	378.3	346.7	308.0
62.5°	456.7	457.0	460.3	460.8	460.5	452.6	434.8	410.9	383.6	351.5	313.1
65°	462.6	463.3	466.9	467.7	467.2	458.8	440.2	415.5	387.9	355.6	316.9
67.5°	467.2	467.7	471.2	472.5	472.0	463.1	444.0	418.3	390.5	358.4	319.9
70°	469.7	470.5	474.6	475.6	475.1	466.1	446.3	419.5	392.0	360.4	322.0
72.5°	471.2	472.0	476.3	477.6	477.4	467.9	447.3	420.0	392.5	361.5	323.5
75°	472.0	472.8	477.1	478.9	478.1	468.7	447.6	419.8	392.3	362.2	324.8
76°	472.0	472.5	477.1	478.9	478.1	468.7	447.6	419.3	392.0	362.5	325.3
77.5°	471.5	472.3	476.8	478.4	477.9	468.4	446.8	418.3	391.3	362.0	325.5
80°	470.2	471.0	475.3	477.1	476.3	466.7	445.0	416.2	389.2	360.9	325.5
82.5°	467.4	468.2	472.3	473.5	473.3	463.6	441.7	412.7	386.2	359.2	325.0
85°	463.1	463.9	467.2	468.7	467.9	458.8	436.9	407.8	382.3	356.4	323.5
87.5°	457.2	457.7	461.3	461.8	461.6	452.4	430.7	401.7	377.2	352.5	321.0
90°	450.1	450.6	453.4	454.2	453.4	444.8	422.8	395.1	370.9	348.0	317.9
92.5°	442.7	442.5	444.5	445.3	444.5	435.8	414.7	387.2	364.3	342.9	314.1
95°	434.1	434.6	435.1	435.6	434.6	426.2	405.5	378.5	357.1	337.3	310.5
97.5°	424.4	424.1	424.6	424.6	423.6	415.2	395.1	370.1	349.0	331.1	305.7
100°	414.2	413.9	413.4	412.4	411.4	403.2	384.6	359.7	340.6	323.8	300.8
102.5°	403.0	401.4	399.9	399.7	397.4	390.5	372.7	349.7	331.7	316.9	294.7
105°	389.2	388.7	386.4	384.4	383.1	375.5	359.2	338.8	322.2	308.5	288.1
107.5°	375.2	374.2	370.9	370.1	367.6	360.7	345.9	327.8	312.8	300.1	280.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
110°	360.2	359.7	356.1	*353.8*	351.8	344.1	331.4	316.1	302.4	290.6	271.3
112.5°	343.4	342.9	339.0	*337.3*	334.2	328.3	316.4	302.6	290.9	280.2	261.6
115°	326.3	326.0	321.7	*319.4*	316.6	309.5	299.8	289.1	278.7	268.0	249.9
117.5°	309.2	308.0	303.6	*300.8*	298.0	291.7	283.8	275.4	265.7	255.7	237.9
120°	289.9	289.6	284.8	*282.5*	279.9	274.1	267.2	259.3	251.7	241.7	225.9
122.5°	271.3	271.0	266.7	*263.9*	260.6	256.0	250.4	244.3	237.4	227.7	212.2
125°	252.4	251.9	247.3	*244.5*	241.7	237.9	232.6	228.2	222.6	213.5	198.7
127.5°	233.3	232.3	229.5	*226.7*	223.6	218.8	217.0	213.2	207.1	198.2	185.2
130°	215.5	215.0	211.2	*208.6*	205.6	201.7	200.2	197.2	192.8	184.7	172.4
132.5°	196.9	196.4	194.1	*191.6*	189.0	185.2	184.4	181.6	177.3	170.7	159.2
135°	180.3	179.8	177.3	*174.5*	173.2	170.4	169.4	167.1	163.0	156.4	146.5
137.5°	164.3	164.0	161.5	*159.2*	157.7	155.6	154.6	152.6	149.5	143.7	134.5
140°	149.8	148.5	146.5	*144.4*	142.9	140.9	140.4	138.6	136.3	130.7	124.1
142.5°	135.3	134.5	133.0	*131.2*	130.2	127.9	126.6	125.8	122.8	118.4	113.1
145°	121.0	121.0	119.7	*118.4*	116.9	115.4	114.4	113.6	111.1	107.2	102.1
147.5°	109.0	109.0	108.0	*107.5*	106.2	104.2	103.4	102.7	100.4	97.3	93.2
150°	98.8	98.3	97.6	*96.8*	95.8	94.0	92.7	92.0	90.2	87.9	84.1
152.5°	88.6	88.6	88.1	*87.1*	86.4	85.1	84.1	83.0	81.8	79.2	76.2
155°	80.0	80.0	79.2	*78.7*	78.2	77.2	76.2	75.1	73.6	71.6	69.3
157.5°	72.9	72.9	72.3	*72.1*	71.1	70.6	69.5	68.5	67.0	65.2	63.2
160°	66.2	66.5	66.2	*66.0*	65.2	64.4	63.4	62.4	61.1	59.6	58.1
162.5°	60.9	61.1	60.6	*60.4*	59.9	59.1	58.1	57.6	56.5	54.8	53.2
165°	56.3	56.3	56.0	*55.8*	55.5	54.5	54.0	53.5	52.5	51.2	49.9
167.5°	52.7	52.7	52.5	*52.5*	52.0	51.5	50.7	50.2	49.2	48.4	46.9
170°	49.7	49.7	49.4	*49.2*	48.9	48.4	47.9	47.1	46.6	45.6	44.8
172.5°	47.1	47.1	46.9	*46.6*	46.6	45.9	45.6	45.1	44.6	43.8	43.0
175°	45.1	44.8	44.8	*44.6*	44.3	43.8	43.6	43.3	42.8	42.5	42.0
177.5°	43.3	43.3	43.0	*43.0*	42.8	42.3	42.3	42.0	41.8	41.5	41.3
180°	41.0	41.0	41.0	*41.0*	41.0	41.0	41.0	41.0	41.0	41.0	41.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	27.8	27.0	25.0	23.2	21.9	20.1	18.6	18.1	17.8	17.6	17.6
5°	30.6	29.0	25.5	22.2	19.1	16.6	14.3	12.0	10.2	9.2	8.7
7.5°	38.5	36.7	31.8	27.5	23.2	19.4	15.5	12.7	10.2	8.7	8.7
10°	48.9	46.4	40.2	34.1	28.8	23.2	18.6	14.8	12.5	11.2	11.2
12.5°	59.9	56.5	49.4	41.5	34.1	27.8	22.2	18.1	15.5	14.5	14.5
15°	72.9	68.5	59.4	49.4	40.5	32.9	26.5	21.9	18.8	17.6	17.3
17.5°	85.3	79.7	68.8	57.6	46.9	37.7	30.3	24.5	21.1	19.4	19.1
20°	98.6	91.7	78.7	65.0	52.7	41.5	32.6	26.2	21.9	19.9	19.6
22.5°	110.8	103.4	87.9	71.8	57.3	44.3	33.9	26.5	21.7	19.4	19.1
25°	124.8	116.4	98.1	79.2	62.2	46.6	34.9	26.5	21.4	18.8	18.6
27.5°	139.1	129.1	108.5	86.6	66.5	49.2	35.7	26.5	20.9	18.3	18.1
30°	154.1	143.2	118.4	94.2	71.1	51.2	36.4	26.2	20.6	17.8	17.6
32.5°	169.4	156.7	129.4	101.6	75.7	53.2	36.9	26.2	20.1	17.6	17.1
35°	184.9	170.2	140.4	109.3	79.7	55.0	37.2	26.0	19.9	17.1	16.8
37.5°	198.7	183.4	150.5	116.2	83.5	56.3	37.4	25.7	19.6	16.8	16.6
40°	212.7	196.1	160.2	122.3	86.4	57.1	37.2	25.5	19.1	16.6	16.3
42.5°	225.4	207.6	169.1	128.1	88.9	57.8	36.9	25.0	18.8	16.3	16.0
45°	237.7	218.8	177.5	133.2	91.2	58.1	36.4	24.7	18.6	16.3	16.0
47.5°	248.9	228.5	185.7	138.1	93.2	58.1	36.2	24.2	18.6	16.3	16.0
50°	258.3	238.2	192.3	142.4	94.5	57.8	35.7	23.9	18.6	16.3	16.0
52.5°	267.5	246.1	198.9	145.7	95.3	57.3	34.9	23.7	18.6	16.6	16.3
55°	274.8	253.2	204.5	149.3	96.0	56.8	34.4	23.4	18.6	16.6	16.6
57.5°	281.2	259.1	208.9	151.6	96.0	55.8	33.9	23.4	18.8	17.1	16.8
60°	287.3	264.4	213.5	153.6	96.0	55.0	33.4	23.4	19.1	17.3	17.1
62.5°	291.4	268.7	217.0	155.4	95.5	54.3	32.9	23.4	19.4	17.8	17.6
65°	295.5	272.8	220.3	156.9	95.3	53.5	32.9	23.7	19.9	18.6	18.3
67.5°	298.5	276.1	222.6	157.9	94.8	52.7	32.6	24.2	20.6	19.4	19.1
70°	301.1	278.7	225.4	158.7	94.2	52.2	32.9	25.0	21.4	20.1	20.1
72.5°	303.1	281.0	227.0	159.5	93.7	52.0	33.4	25.7	22.7	21.4	21.1
75°	*304.4*	*282.2*	*228.5*	*159.7*	*93.2*	*51.7*	*33.9*	*26.7*	*23.7*	*22.7*	*22.4*
76°	304.7	282.7	229.0	160.0	93.0	51.7	34.1	27.0	24.2	23.2	22.9
77.5°	305.4	283.5	229.5	160.0	92.7	51.7	34.6	27.8	25.0	23.9	23.9
80°	305.9	284.0	230.3	160.2	92.2	51.7	35.4	29.0	26.5	25.5	25.2
82.5°	305.7	284.3	230.5	159.7	92.0	52.0	36.4	30.3	28.0	27.0	26.7
85°	304.7	283.5	230.0	158.9	91.2	52.5	37.4	31.8	29.3	28.3	28.3
87.5°	302.9	281.7	228.7	157.9	90.7	52.7	38.5	33.1	30.8	29.8	29.8
90°	300.3	279.7	227.2	156.9	89.9	53.0	39.7	34.4	32.4	31.6	31.3
92.5°	297.3	277.1	225.2	155.4	89.4	53.5	40.8	35.9	33.9	32.9	32.9
95°	294.2	274.3	222.9	153.6	88.9	54.3	41.8	37.2	35.2	34.4	34.4
97.5°	289.9	270.5	219.8	151.6	88.1	54.5	43.0	38.5	36.7	35.7	35.7
100°	284.5	266.2	216.3	149.5	87.6	55.3	44.1	39.7	38.0	37.2	36.9
102.5°	279.2	261.1	212.4	147.2	86.9	55.5	45.1	41.0	39.0	38.2	38.2
105°	273.1	255.5	207.6	144.2	86.1	56.0	45.9	41.8	40.0	39.2	39.0
107.5°	265.9	248.4	202.8	141.4	85.3	56.5	46.6	42.5	40.8	40.0	39.7

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

Scaled Data Report

REPORT NUMBER: P1045947
CATALOG NUMBER: FFX-CLB-20-740-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	257.8	241.7	196.9	138.3	84.8	57.3	47.4	43.0	41.3	40.2	40.2
112.5°	248.4	232.3	190.5	134.7	84.8	58.3	47.9	43.6	41.5	40.5	40.5
115°	237.1	222.4	182.9	131.4	84.6	59.4	48.9	43.8	41.5	40.8	40.5
117.5°	226.2	211.9	175.3	128.1	85.3	61.1	49.9	44.3	41.5	40.5	40.5
120°	214.0	201.0	167.4	124.8	86.4	62.9	51.2	44.6	41.5	40.2	40.2
122.5°	201.2	189.3	159.7	121.8	87.1	65.0	52.2	45.1	41.3	40.0	39.7
125°	189.3	177.3	151.1	118.7	87.9	66.7	53.5	45.3	41.0	39.5	39.2
127.5°	176.0	166.8	143.4	115.4	88.4	68.3	54.5	45.6	40.8	39.0	38.7
130°	164.6	155.6	135.8	111.8	87.9	68.8	54.8	45.3	40.2	38.5	38.5
132.5°	151.8	144.7	127.4	107.2	86.6	68.8	55.0	45.3	40.0	38.2	38.0
135°	140.6	134.0	119.5	102.1	84.3	67.8	54.5	45.1	39.7	38.0	37.7
137.5°	130.2	123.8	111.1	96.8	81.0	66.0	53.5	44.6	39.5	37.7	37.4
140°	119.0	114.4	103.4	90.9	77.4	63.9	52.2	44.1	39.5	37.7	37.4
142.5°	108.8	104.9	95.0	84.6	72.9	60.9	50.7	43.3	39.2	37.7	37.4
145°	99.6	95.3	87.6	78.2	68.3	58.1	49.2	42.8	39.0	37.7	37.4
147.5°	90.7	86.9	80.5	72.3	64.2	55.3	47.6	42.0	39.0	37.7	37.4
150°	81.8	79.2	73.6	67.0	59.6	52.5	46.1	41.5	39.0	38.0	37.7
152.5°	74.1	72.3	67.5	62.2	55.8	49.7	44.6	41.0	39.0	38.0	38.0
155°	67.8	66.0	61.9	57.1	52.5	47.4	43.6	40.5	39.0	38.2	38.0
157.5°	61.4	60.1	56.8	53.2	49.4	45.6	42.5	40.2	39.0	38.2	38.2
160°	56.5	55.3	52.7	49.9	46.9	44.1	41.5	39.7	39.0	38.5	38.5
162.5°	52.5	51.5	49.4	47.1	44.8	42.5	40.8	39.5	39.0	38.5	38.5
165°	49.2	48.4	46.6	44.8	43.3	41.5	40.2	39.5	39.0	38.7	38.7
167.5°	46.4	45.9	44.6	43.3	42.0	40.8	39.7	39.2	39.0	39.0	39.0
170°	44.3	43.8	43.0	42.0	41.0	40.2	39.5	39.2	39.2	39.0	39.2
172.5°	42.8	42.5	41.8	41.0	40.5	39.7	39.5	39.2	39.5	39.5	39.5
175°	41.8	41.5	41.0	40.5	40.2	39.7	39.7	39.5	39.7	40.0	40.0
177.5°	41.0	40.8	40.5	40.5	40.2	40.0	40.0	40.2	40.5	40.5	40.5
180°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

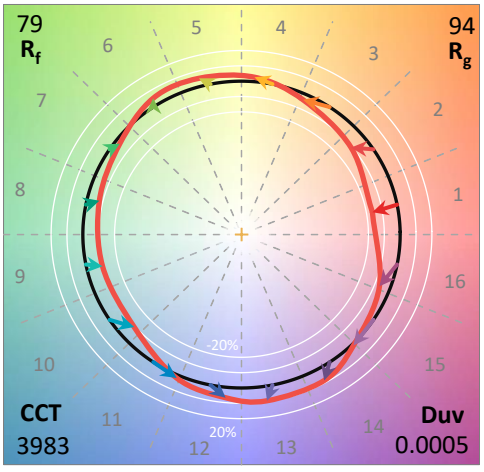
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-11
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-20-740-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):	3983	CRI (Ra):	76.2		
CIE u':	0.2252	R1:	72.6	R9:	-26.0
CIE v':	0.5025	R2:	84.0	R10:	63.7
Duv:	0.0005	R3:	93.4	R11:	72.4
CIE x:	0.3815	R4:	74.5	R12:	56.4
CIE y:	0.3785	R5:	73.8	R13:	75.0
CIE z:	0.2400	R6:	78.3	R14:	96.6
Peak Wavelength (nm):	448	R7:	81.1	R15:	64.5
Dominant Wavelength (nm):	578	R8:	52.1		
Purity:	28.07575				

Rf:	79
Rg:	94.1



Test Conditions

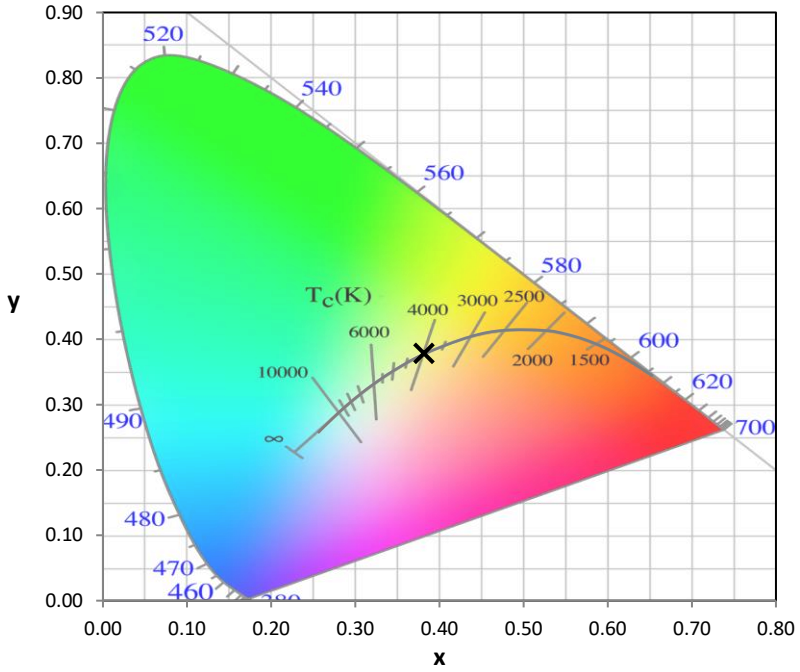
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

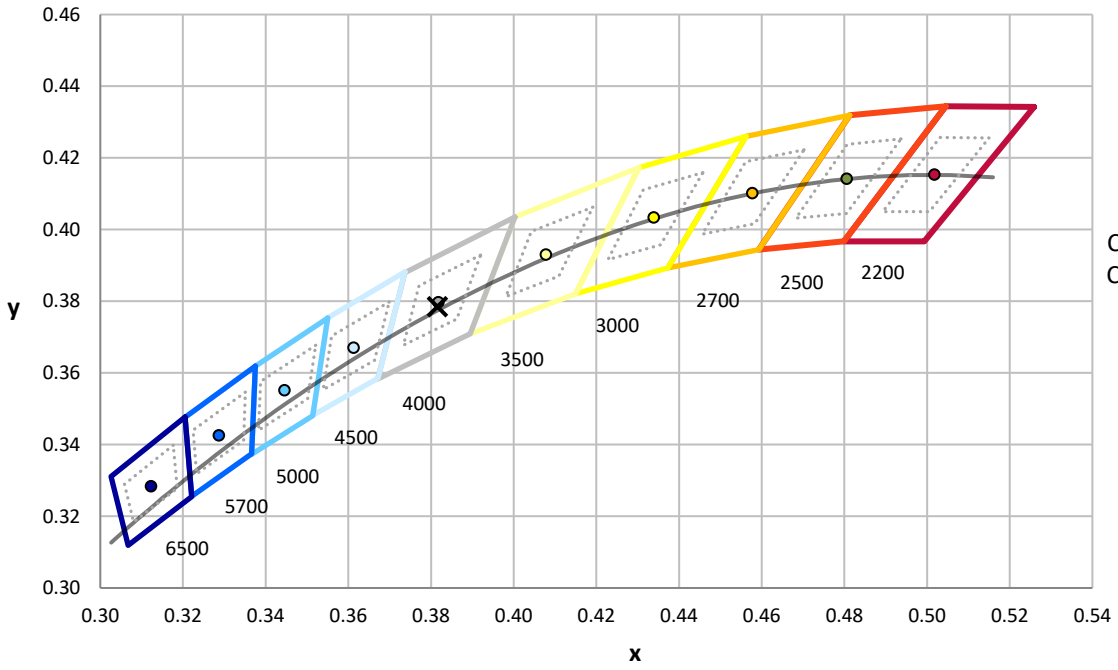
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-11

CIE 1931 Chromaticity Diagram



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

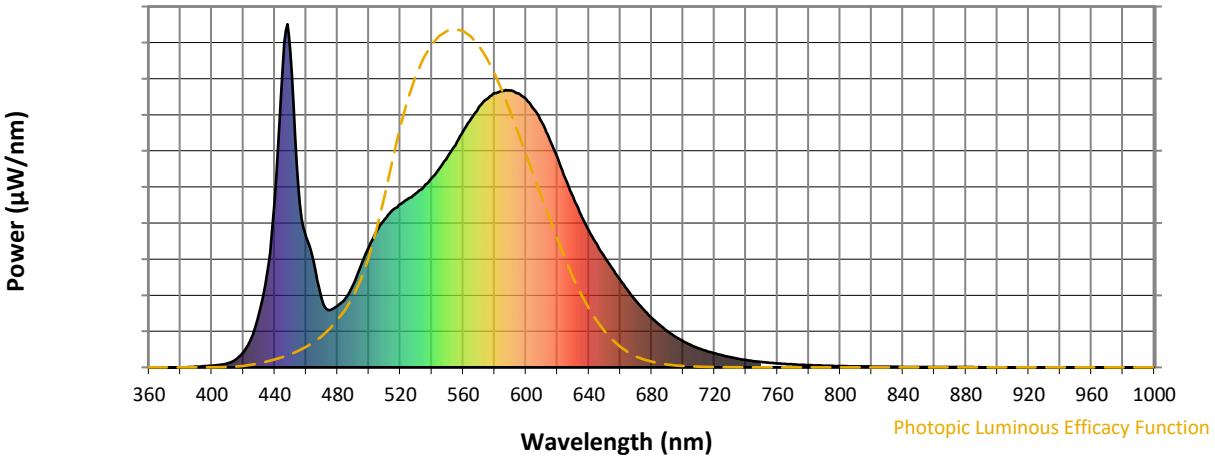


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

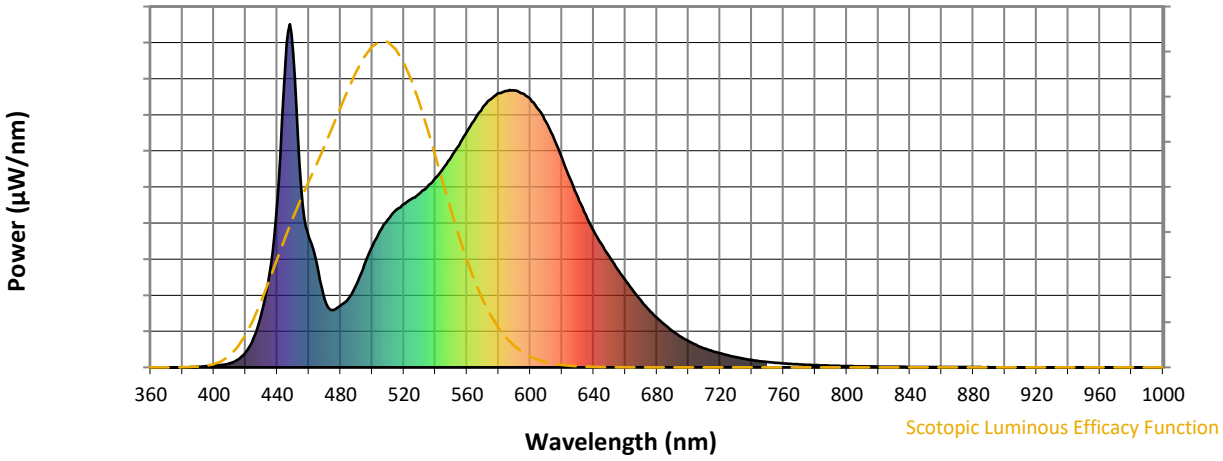


Photopic Lumens: NR

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Scotopic Flux vs. Wavelength

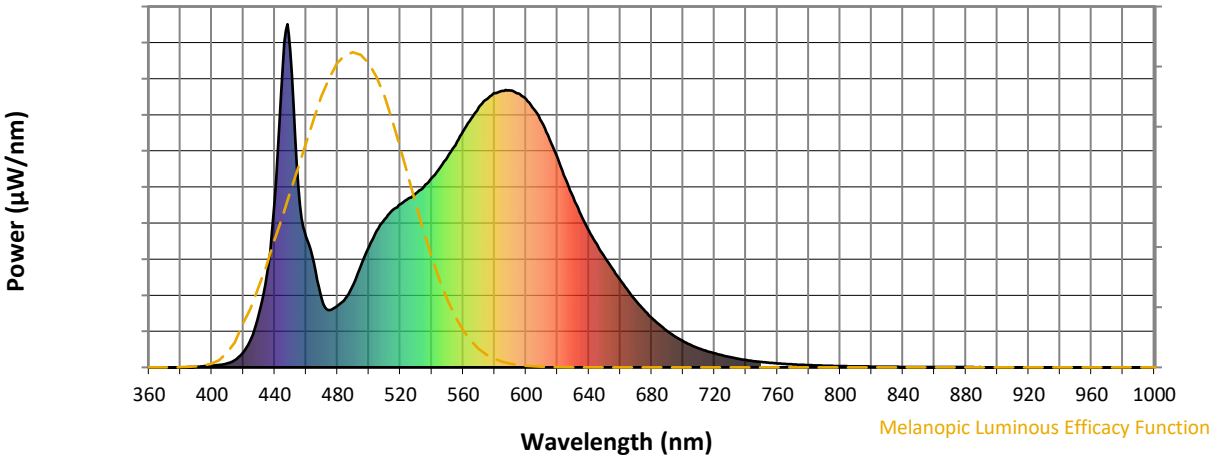


Scotopic Lumens: NR **S/P: 1.61**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.24**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

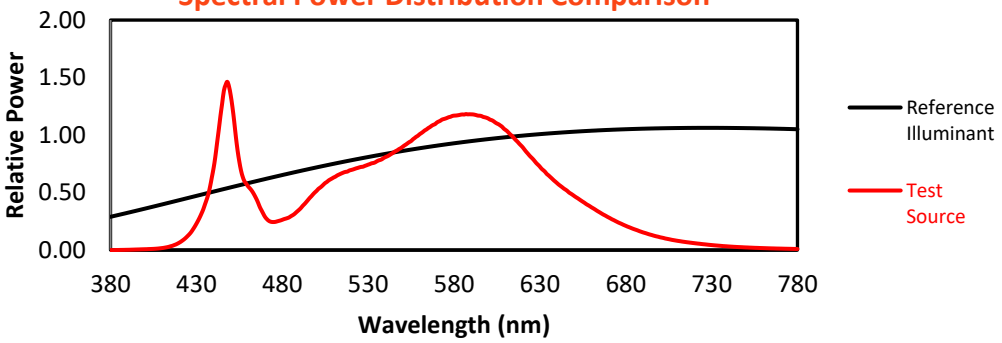
REPORT NUMBER: SP1-2501-332-11

TM-30-18

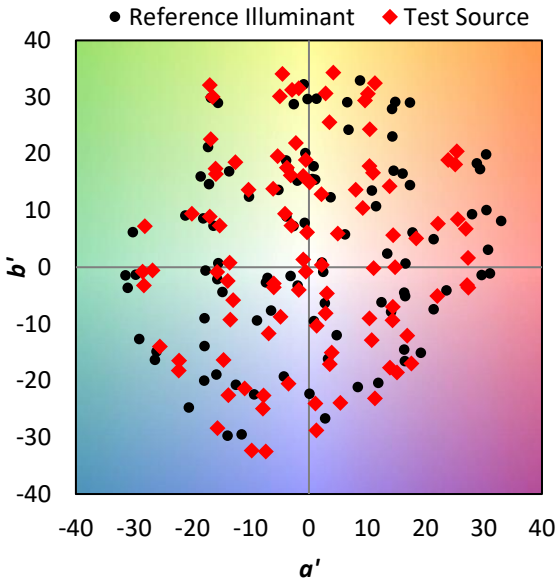
Summary

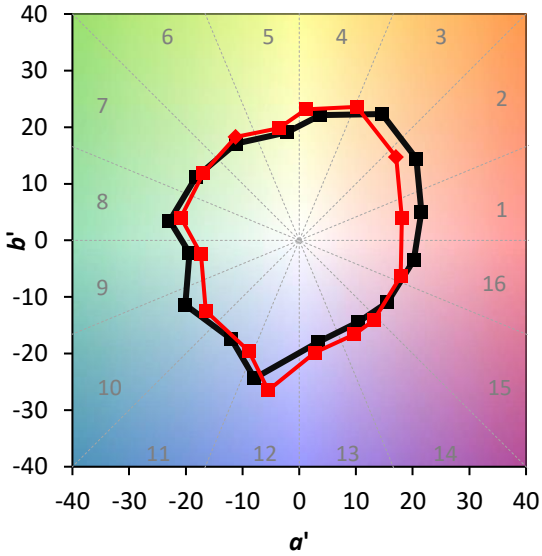
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

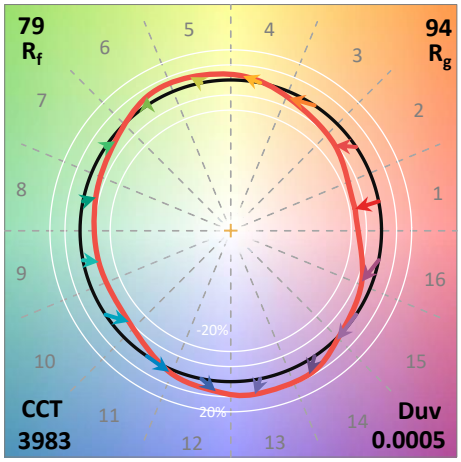
Spectral Power Distribution Comparison

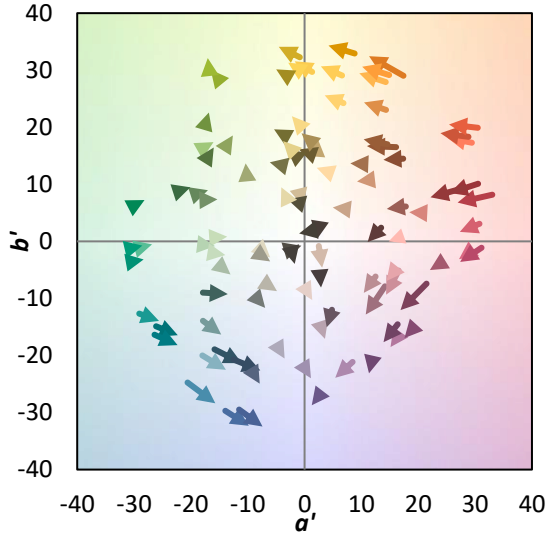


Color Vector Graphics







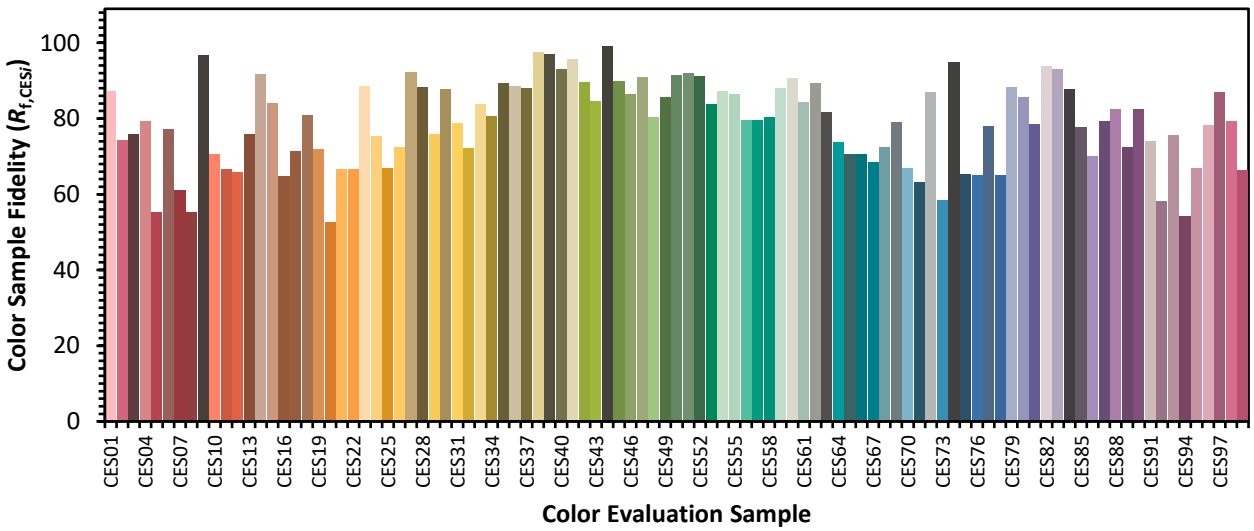


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

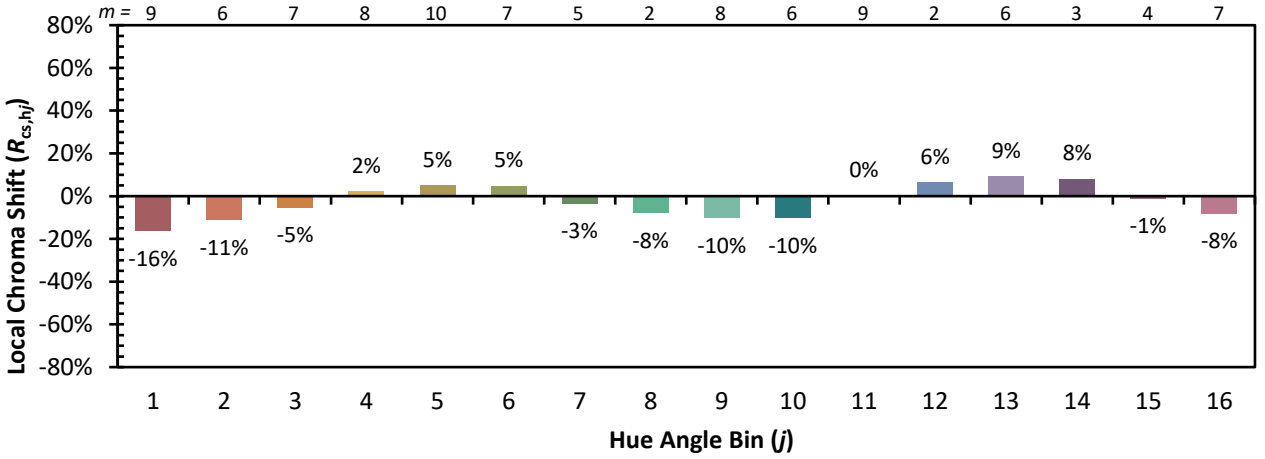
CES01 = 85	CES26 = 72	CES51 = 92	CES76 = 65
CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 94
CES08 = 39	CES33 = 84	CES58 = 80	CES83 = 93
CES09 = 29	CES34 = 81	CES59 = 88	CES84 = 88
CES10 = 74	CES35 = 89	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 88	CES61 = 84	CES86 = 70
CES12 = 63	CES37 = 88	CES62 = 89	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 71	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 71	CES91 = 74
CES17 = 49	CES42 = 90	CES67 = 68	CES92 = 58
CES18 = 56	CES43 = 85	CES68 = 72	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 54
CES20 = 65	CES45 = 90	CES70 = 67	CES95 = 67
CES21 = 86	CES46 = 87	CES71 = 63	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 87	CES97 = 87
CES23 = 91	CES48 = 80	CES73 = 58	CES98 = 79
CES24 = 91	CES49 = 86	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 92	CES75 = 65	

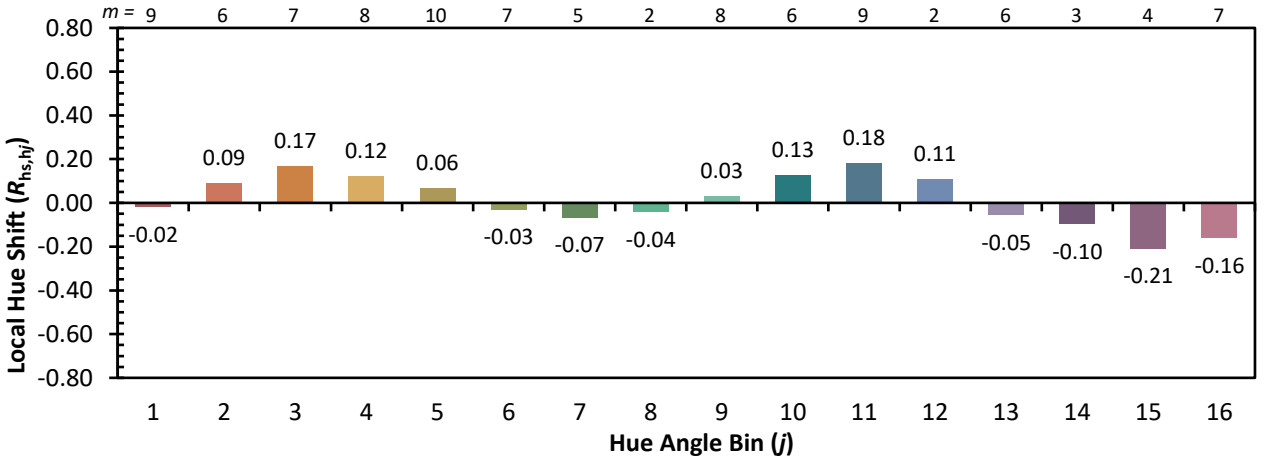


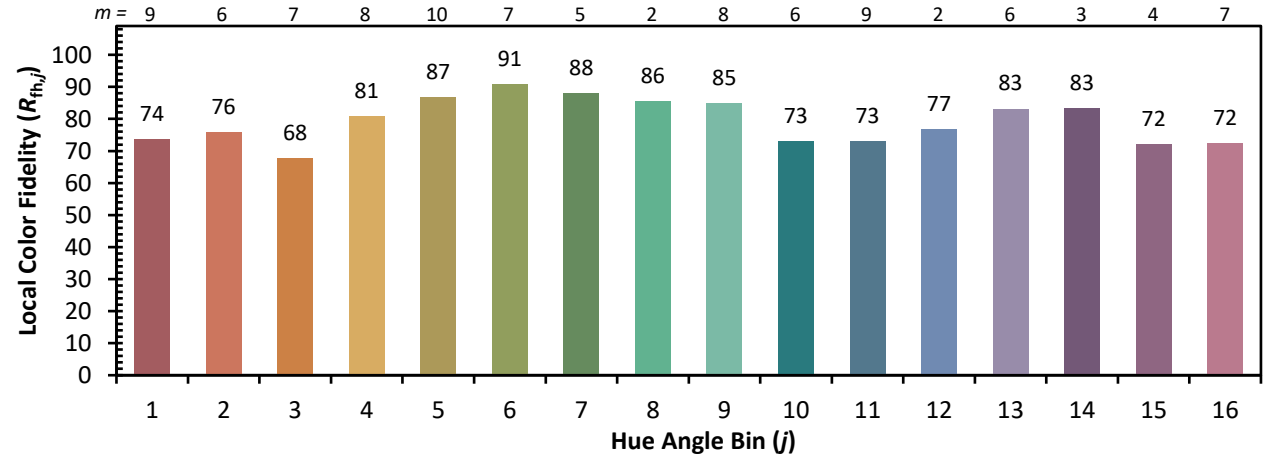
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Color Rendition by Hue-Angle Bin



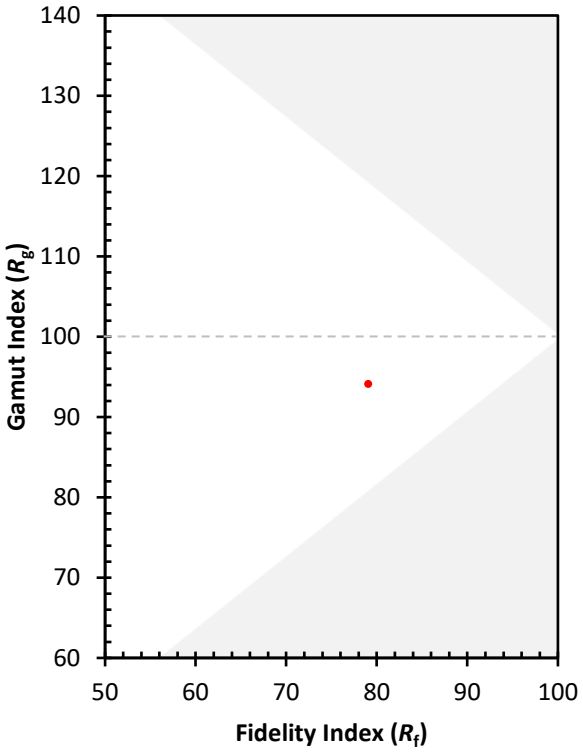


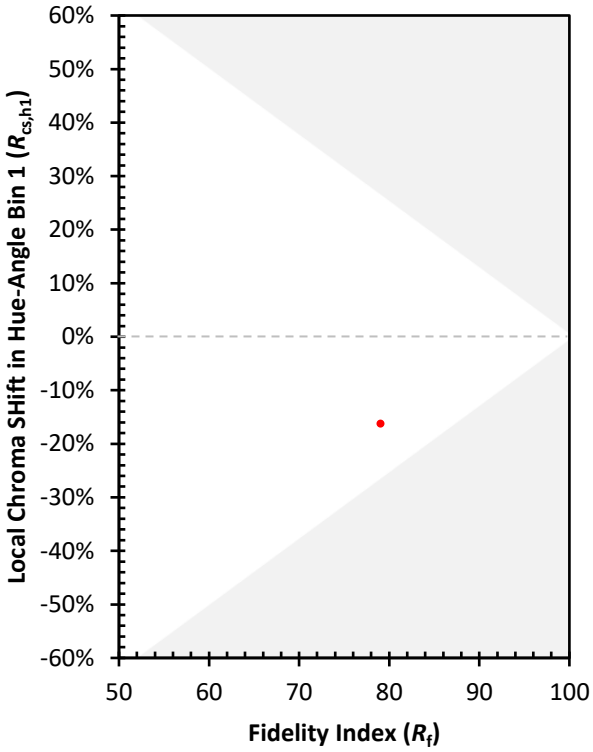


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Measure Comparisons





(END OF REPORT)