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: P1045902

Luminaire Tested: **FFX-CLB-20-740-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045902
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-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2317 lumens
Efficiency:	N/A
Efficacy:	117.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G2

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

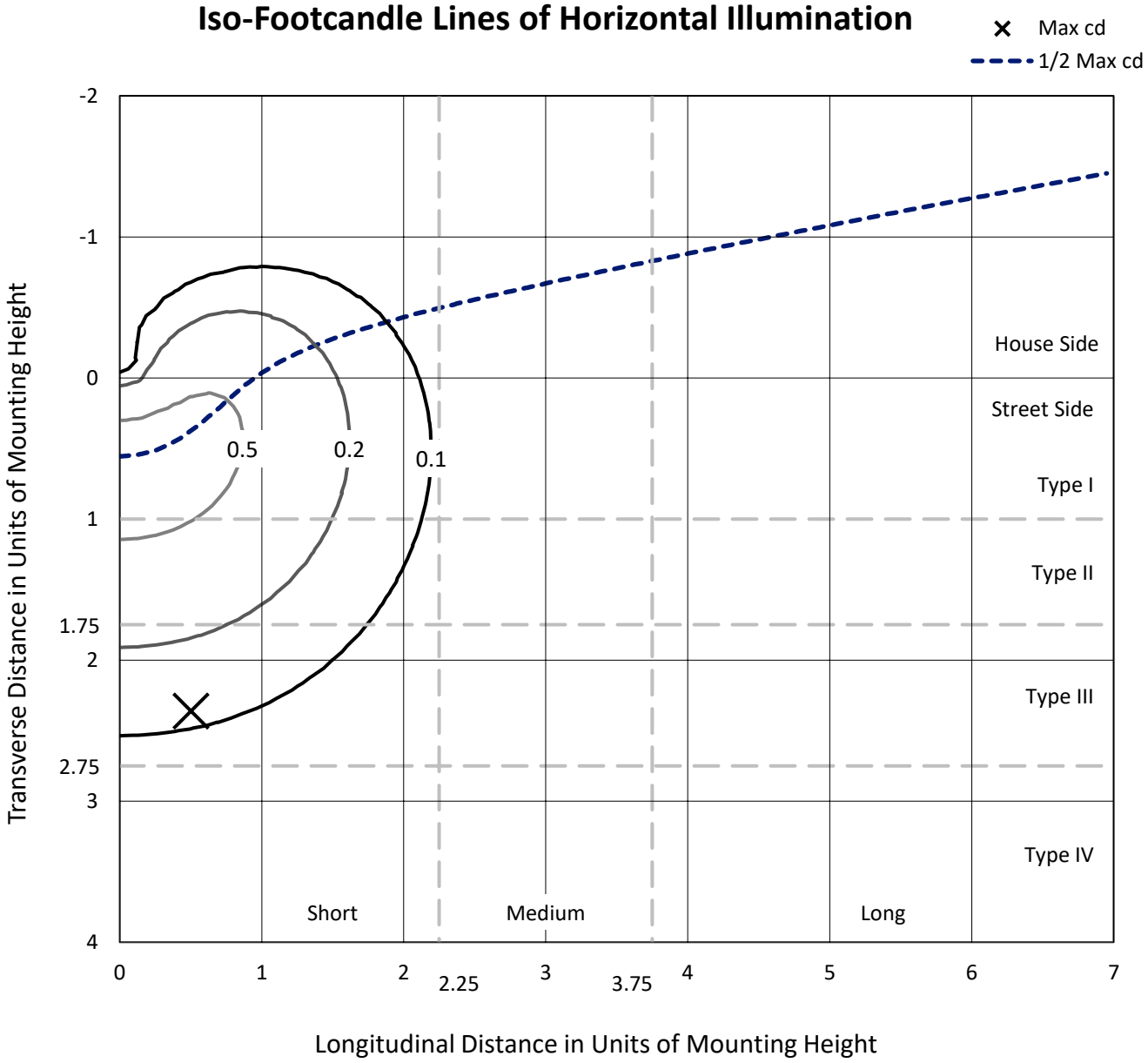


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Iso-Footcandle Lines of Horizontal Illumination



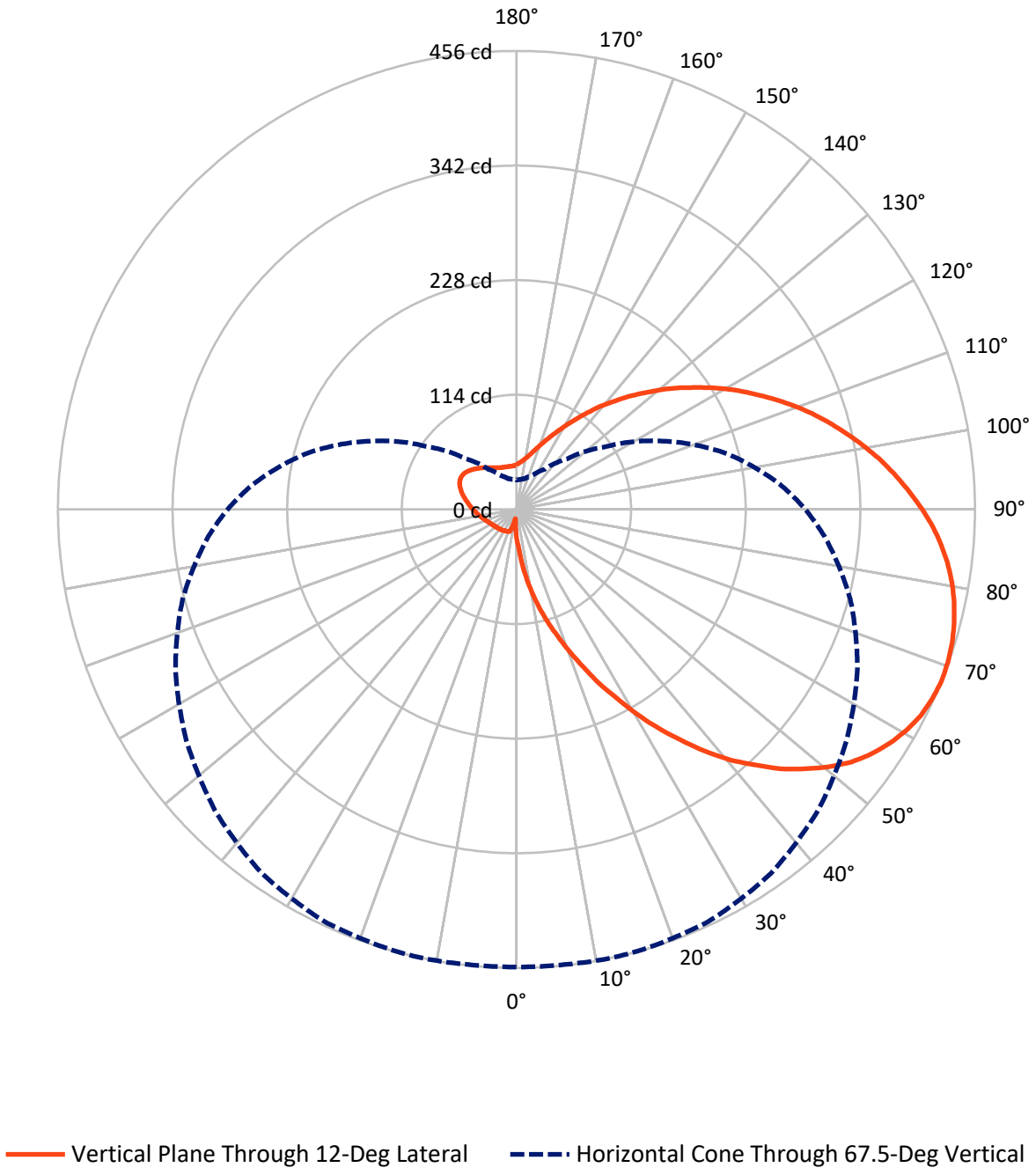
Based on 15 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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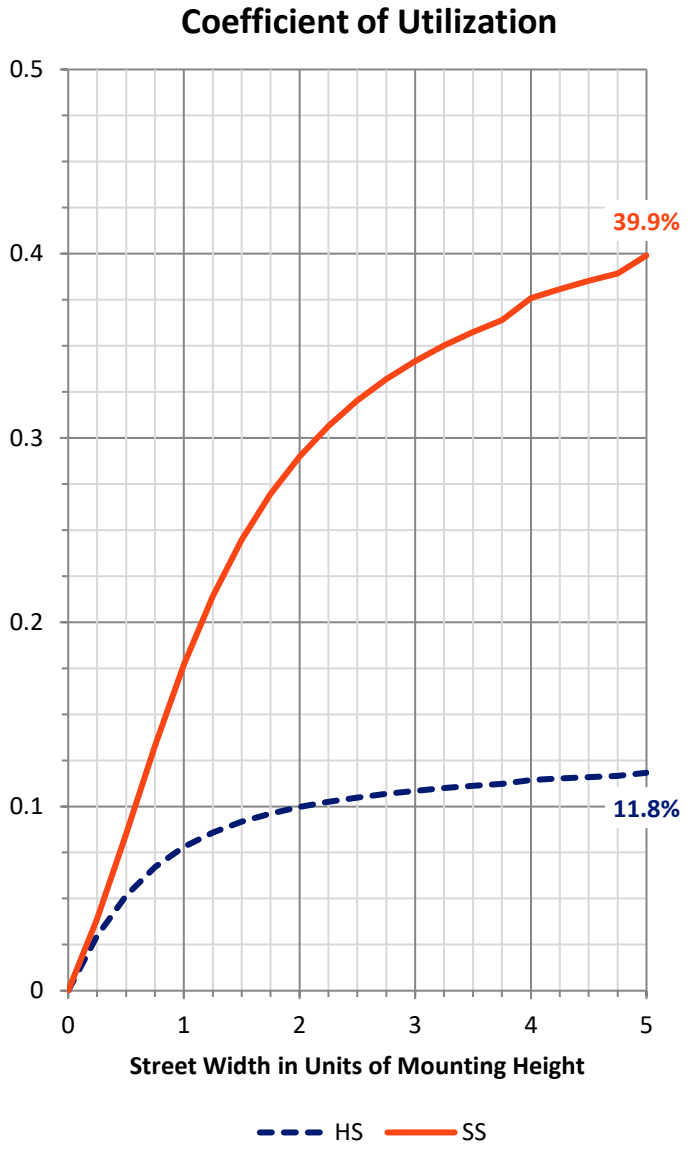
REPORT NUMBER: P1045902
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	298.2	288.6	586.8
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	1054.2	676.0	1730.2
	% Fixture	45.5	29.2	74.7
Total	Lumens	1352.4	964.6	2317.0
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.2
10°-20°	20.6	0.9
20°-30°	53.8	2.3
30°-40°	104.4	4.5
40°-50°	163.9	7.1
50°-60°	217.5	9.4
60°-70°	253.5	10.9
70°-80°	269.3	11.6
80°-90°	265.9	11.5
90°-100°	245.2	10.6
100°-110°	213.9	9.2
110°-120°	175.9	7.6
120°-130°	133.2	5.7
130°-140°	91.0	3.9
140°-150°	55.8	2.4
150°-160°	30.6	1.3
160°-170°	14.8	0.6
170°-180°	4.4	0.2
0°-90°	1352.4	58.4
0°-180°	2317.0	100.0



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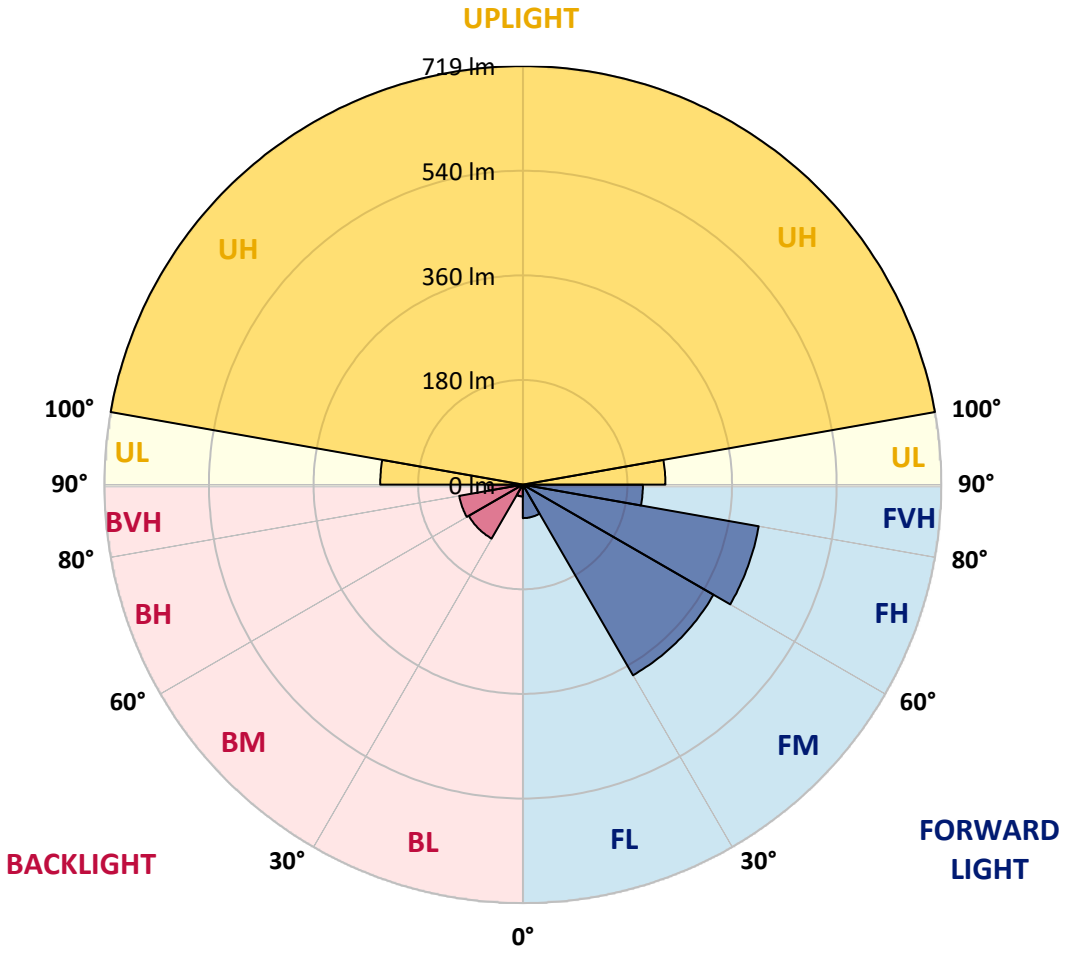
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	57.6	2.5			
FM	(30°-60°)	378.5	16.3			
FH	(60°-80°)	411.7	17.8			G0/660
FVH	(80°-90°)	206.4	8.9			G2/225
BL	(0°-30°)	20.4	0.9	B0/110		
BM	(30°-60°)	107.2	4.6	B0/220		
BH	(60°-80°)	111.0	4.8	B1/500		G1/500
BVH	(80°-90°)	59.5	2.6			G1/100
UL	(90°-100°)	245.2	10.6		U3/500	
UH	(100°-180°)	719.4	31.1		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	29.3	29.3	*29.3*	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
2.5°	36.7	37.5	*36.7*	37.7	37.2	37.2	35.9	34.7	32.9	30.8	29.1
5°	52.0	51.7	*50.7*	51.7	50.7	49.4	47.4	44.1	40.8	37.7	33.9
7.5°	67.8	68.1	*67.3*	67.0	64.7	63.0	59.6	56.3	52.3	47.7	43.1
10°	84.9	84.4	*83.1*	83.3	80.8	77.2	73.4	69.6	65.0	59.6	53.8
12.5°	100.7	100.7	*99.7*	99.9	97.1	93.0	90.0	84.9	79.3	72.9	65.8
15°	117.5	116.5	*116.0*	116.0	113.2	109.6	106.3	100.7	94.1	86.9	78.8
17.5°	133.1	132.8	*132.3*	132.5	130.0	126.9	121.6	116.0	108.1	99.4	91.0
20°	152.9	151.9	*151.1*	149.9	148.3	144.3	139.2	131.8	123.9	114.4	103.2
22.5°	171.0	172.3	*170.3*	169.2	167.2	163.9	156.5	149.4	139.9	129.0	116.7
25°	191.9	192.9	*192.2*	190.9	188.1	183.5	176.6	168.7	157.5	145.0	130.5
27.5°	213.9	214.6	*212.6*	213.1	208.2	203.9	197.0	187.3	176.6	161.9	146.6
30°	235.5	237.0	*236.3*	234.5	230.4	226.6	218.4	208.2	196.0	179.7	162.1
32.5°	261.0	259.2	*259.5*	257.4	254.9	248.8	241.6	230.2	215.9	198.6	178.4
35°	284.7	283.9	*281.9*	282.9	278.6	273.0	264.1	251.8	236.3	217.2	195.0
37.5°	305.9	306.6	*305.4*	304.6	301.8	295.4	285.0	272.5	254.6	234.5	210.3
40°	327.5	328.0	*327.8*	327.8	324.0	316.8	306.1	292.1	273.7	252.1	225.8
42.5°	348.2	348.7	*347.4*	347.7	344.6	337.2	325.7	311.0	290.6	267.9	239.3
45°	368.1	368.1	*368.1*	367.8	363.5	356.6	344.9	328.0	307.6	281.9	251.8
47.5°	386.4	385.9	*385.6*	385.6	382.8	374.7	362.2	343.8	321.7	294.6	264.1
50°	402.7	403.0	*402.7*	402.2	397.9	391.3	377.2	358.1	334.7	306.9	274.3
52.5°	416.7	417.0	*417.3*	416.0	413.2	405.3	389.7	369.3	345.6	316.6	282.7
55°	428.0	428.5	*429.0*	428.5	425.7	416.2	400.7	380.0	354.5	324.7	290.1
57.5°	438.4	438.2	*438.4*	437.9	434.8	425.7	409.6	387.4	361.7	331.4	295.7
60°	445.5	445.8	*445.8*	445.8	442.2	432.8	415.7	393.0	366.8	336.5	300.5
62.5°	450.4	450.6	*451.4*	450.9	447.6	437.6	420.1	397.1	370.6	339.8	303.8
65°	453.7	454.0	*454.5*	454.0	450.9	440.7	422.9	399.7	373.2	342.3	306.1
67.5°	*455.2*	*455.2*	*456.0*	*455.7*	*452.2*	*441.7*	*423.9*	*400.7*	*374.2*	*343.6*	*307.6*
70°	454.5	454.7	*455.2*	455.0	451.4	441.0	423.1	400.2	373.9	343.6	307.9
72.5°	452.7	452.7	*453.2*	452.7	449.4	438.9	421.3	398.6	372.6	343.1	307.6
75°	449.1	449.4	*449.6*	449.4	445.8	435.6	418.3	395.8	370.6	341.3	306.6
77.5°	444.8	445.0	*445.0*	445.0	441.2	431.0	414.2	392.3	367.8	339.3	304.8
80°	438.4	438.7	*439.2*	438.7	434.8	425.7	408.8	387.9	364.2	335.9	302.6
82.5°	431.3	431.0	*431.8*	431.5	427.7	418.5	402.0	382.1	358.9	332.1	299.2
85°	422.3	422.3	*422.9*	422.3	419.0	409.3	393.8	374.9	352.8	326.5	295.2
87.5°	412.4	412.4	*412.9*	411.9	408.1	399.7	384.9	366.5	346.1	320.9	290.6
90°	400.7	401.2	*401.2*	400.4	396.6	388.4	374.9	357.4	337.5	314.0	285.2
92.5°	389.5	389.5	*389.0*	389.0	384.9	376.7	364.2	348.2	329.6	307.1	279.4
95°	377.5	377.5	*376.7*	376.2	372.1	365.3	353.3	338.5	320.6	300.0	273.5
97.5°	364.7	364.5	*364.0*	363.5	359.4	352.8	342.1	327.8	311.5	291.8	267.1
100°	351.7	352.0	*350.2*	350.0	345.9	340.3	330.1	316.8	301.8	283.4	260.2
102.5°	337.5	338.0	*336.5*	336.2	332.1	326.0	317.8	305.9	292.4	275.5	253.4
105°	324.7	323.5	*322.7*	322.2	318.6	313.0	304.3	294.9	282.2	266.4	245.7
107.5°	310.2	310.5	*308.9*	307.9	304.3	299.7	292.1	283.4	272.2	257.2	238.3
110°	295.7	295.2	*294.4*	293.9	289.8	285.7	279.1	272.0	261.0	248.0	230.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	280.6	280.9	*279.6*	278.8	276.0	271.7	266.9	260.0	250.6	238.3	221.8
115°	266.6	266.1	*265.1*	264.6	261.5	258.2	253.4	248.3	239.8	228.1	213.1
117.5°	252.3	251.3	*251.1*	250.3	248.0	244.7	240.9	236.5	228.4	218.2	203.9
120°	237.6	237.6	*237.0*	236.5	233.5	230.7	228.4	223.8	216.9	207.2	195.0
122.5°	223.8	223.5	*222.5*	221.8	220.2	217.7	214.9	211.3	205.2	196.5	184.8
125°	208.8	209.3	*208.5*	208.2	205.7	204.4	201.9	199.6	193.2	185.3	174.9
127.5°	196.3	195.5	*195.5*	194.2	192.9	191.7	189.6	186.6	182.2	174.1	164.4
130°	183.0	182.5	*181.7*	181.7	180.2	178.4	177.1	174.6	169.8	163.1	154.0
132.5°	169.8	169.2	*168.7*	168.0	167.0	166.7	165.4	162.6	158.0	152.2	144.3
135°	157.3	157.0	*156.8*	156.8	155.2	154.5	152.9	150.6	147.6	142.2	134.6
137.5°	145.5	144.8	*144.3*	144.3	143.8	142.5	141.2	139.4	136.1	131.8	124.9
140°	133.3	133.8	*133.8*	133.6	132.5	131.8	130.2	128.7	125.4	121.8	116.0
142.5°	123.1	122.9	*122.3*	122.1	121.6	120.6	119.8	118.0	116.0	112.2	107.1
145°	112.2	112.2	*111.9*	112.2	111.1	110.9	109.9	108.3	106.0	102.7	98.4
147.5°	102.5	102.5	*102.2*	102.5	101.7	100.9	100.2	99.2	97.1	94.6	90.7
150°	93.5	93.8	*93.3*	93.3	93.0	92.3	91.8	90.2	88.7	86.7	83.3
152.5°	85.4	85.6	*85.4*	85.1	84.9	84.4	83.6	82.6	81.1	79.3	76.5
155°	78.5	78.3	*78.3*	78.3	78.0	77.2	77.2	75.7	74.2	72.9	70.1
157.5°	71.9	71.9	*71.9*	71.9	71.4	71.1	70.6	69.3	68.6	66.8	64.7
160°	66.5	66.3	*66.3*	66.3	65.8	65.5	64.7	64.2	63.2	61.7	60.2
162.5°	61.2	61.4	*61.4*	61.4	60.9	60.7	60.2	59.6	58.9	57.3	56.3
165°	57.1	57.1	*57.1*	56.8	56.6	56.6	55.8	55.6	54.8	53.8	53.0
167.5°	53.8	53.8	*53.5*	53.8	53.3	52.8	52.5	52.0	51.5	51.0	50.2
170°	51.0	51.0	*51.0*	51.0	50.7	50.5	50.0	49.7	49.2	48.7	47.9
172.5°	48.7	48.7	*48.7*	48.7	48.4	48.2	47.7	47.4	47.2	46.6	46.1
175°	46.9	46.9	*46.9*	46.9	46.6	46.4	45.9	45.9	45.6	45.4	44.9
177.5°	45.6	45.6	*45.4*	45.4	45.1	44.9	44.9	44.6	44.6	44.4	44.1
180°	44.1	44.1	*44.1*	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
2.5°	28.0	27.0	25.2	23.7	21.9	20.6	19.4	19.1	19.1	19.6	19.6
5°	32.4	30.1	26.5	23.2	19.4	16.6	14.0	11.7	10.2	9.4	9.4
7.5°	40.5	38.7	33.4	28.8	24.2	19.9	15.8	12.2	9.7	7.9	7.6
10°	51.0	48.2	41.8	35.9	29.8	24.5	19.6	15.3	12.2	10.7	10.7
12.5°	62.2	58.4	50.7	43.6	36.4	29.6	24.0	19.6	16.6	15.0	14.5
15°	74.2	69.8	60.7	51.5	42.8	35.4	29.1	23.7	20.6	19.1	18.9
17.5°	85.4	80.5	70.1	59.1	49.2	40.3	32.6	27.0	23.2	21.4	21.2
20°	97.6	91.2	79.0	66.3	54.5	43.8	35.2	28.5	24.0	21.9	21.7
22.5°	110.1	102.7	88.2	73.4	59.4	47.2	37.0	29.3	24.2	21.9	21.7
25°	123.4	115.2	98.1	81.1	64.7	50.5	38.7	30.1	24.7	21.9	21.7
27.5°	137.4	128.2	108.6	89.2	70.1	53.8	40.5	31.1	25.0	22.2	21.7
30°	152.4	142.0	119.3	97.1	75.2	56.8	42.1	31.6	25.2	22.2	21.9
32.5°	167.5	154.7	131.0	104.8	80.5	59.6	43.6	32.4	25.5	22.4	22.2
35°	182.0	169.5	141.7	112.7	85.6	62.4	44.9	32.9	26.0	22.7	22.2
37.5°	196.8	183.3	151.9	120.1	90.2	64.7	45.9	33.4	26.3	22.9	22.4
40°	210.8	195.0	161.9	127.2	94.1	66.8	46.6	33.6	26.5	23.2	22.7
42.5°	224.0	207.2	171.3	133.3	97.9	68.3	47.4	34.2	26.8	23.4	23.2
45°	235.3	217.9	179.4	139.4	100.7	69.6	47.9	34.4	27.0	23.7	23.4
47.5°	246.2	227.6	187.1	144.3	103.5	70.9	48.2	34.7	27.3	24.2	24.0
50°	255.9	236.3	194.0	148.6	105.5	71.4	48.4	34.9	27.8	24.7	24.5
52.5°	264.1	243.7	199.3	152.2	107.1	71.9	48.4	34.9	28.0	25.2	25.0
55°	270.7	250.0	204.2	154.7	108.1	72.1	48.4	35.2	28.5	25.7	25.5
57.5°	276.3	254.9	208.0	157.0	109.1	72.1	48.4	35.4	29.1	26.3	26.0
60°	280.4	259.0	210.8	158.5	109.3	71.9	48.4	35.7	29.6	27.0	26.8
62.5°	283.7	261.8	213.1	159.6	109.3	71.4	48.4	35.9	30.1	27.8	27.5
65°	286.0	263.8	214.6	160.1	109.1	71.1	48.4	36.4	30.8	28.5	28.3
67.5°	*287.3*	*265.3*	*215.6*	*160.6*	*108.8*	*71.1*	*48.7*	*37.2*	*31.6*	*29.6*	*29.3*
70°	287.8	265.6	215.9	160.3	108.6	70.6	48.9	37.7	32.6	30.6	30.3
72.5°	287.8	265.8	215.9	160.3	108.1	70.9	49.2	38.5	33.6	31.6	31.4
75°	287.0	265.1	215.6	159.8	107.8	70.6	50.0	39.5	34.7	32.9	32.6
77.5°	285.5	264.1	214.9	159.0	107.6	70.9	50.5	40.5	35.9	34.2	34.2
80°	283.7	262.5	213.9	158.3	107.3	71.4	51.2	41.8	37.2	35.7	35.4
82.5°	280.9	260.2	212.1	157.3	106.8	71.6	52.3	43.1	38.7	37.0	37.0
85°	277.1	256.9	209.8	156.0	106.3	72.1	53.3	44.1	40.3	38.5	38.5
87.5°	273.0	253.4	207.0	154.5	106.0	72.6	54.5	45.6	41.5	40.0	39.8
90°	268.1	249.0	204.2	152.7	105.8	73.4	55.6	47.2	43.3	41.8	41.5
92.5°	263.0	244.7	201.1	151.4	105.5	74.2	57.1	48.9	45.1	43.6	43.3
95°	257.9	240.1	198.0	149.6	105.5	75.2	58.6	50.7	46.9	45.4	45.1
97.5°	252.1	235.0	194.5	148.1	105.5	76.5	60.4	52.5	48.7	47.2	47.2
100°	246.0	229.9	190.9	146.6	105.8	77.7	62.2	54.5	50.7	49.2	49.2
102.5°	239.8	224.3	187.6	145.3	106.3	79.5	64.5	56.8	53.0	51.5	51.2
105°	233.2	218.7	183.8	143.5	106.8	81.1	66.5	58.9	55.1	53.5	53.5
107.5°	226.6	212.8	180.0	142.2	107.3	82.6	68.8	61.2	57.3	55.6	55.6
110°	219.2	206.5	175.9	140.7	107.8	84.4	70.6	63.2	59.1	57.6	57.3

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

Scaled Data Report

REPORT NUMBER: P1045902
CATALOG NUMBER: FFX-CLB-20-740-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	211.6	200.1	171.5	138.7	108.1	85.9	72.6	65.3	61.2	59.4	59.1
115°	203.4	192.9	166.7	136.6	108.1	87.2	74.2	66.8	62.7	60.9	60.7
117.5°	195.2	185.3	161.3	133.8	107.8	87.9	75.4	67.8	63.7	61.9	61.7
120°	186.6	177.7	156.0	131.0	106.8	88.2	76.0	68.6	64.2	62.4	62.2
122.5°	177.7	169.5	149.6	127.2	105.3	87.9	76.0	68.6	64.2	62.2	61.9
125°	168.0	160.8	143.0	122.6	103.0	86.9	75.4	68.1	63.7	61.7	61.2
127.5°	158.5	152.2	136.1	118.0	100.2	85.4	74.4	67.0	62.7	60.7	60.4
130°	149.4	143.0	129.0	112.9	96.9	83.3	72.6	65.5	61.4	59.1	58.9
132.5°	139.7	133.8	121.8	107.6	93.0	80.8	70.9	64.0	59.6	57.9	57.3
135°	130.0	125.4	114.4	102.0	89.2	78.0	68.8	62.2	58.1	56.1	56.1
137.5°	121.3	116.7	107.1	96.3	85.1	74.7	66.3	60.2	56.3	54.5	54.3
140°	112.4	108.8	100.2	90.7	80.8	71.6	64.2	58.4	54.8	53.0	52.8
142.5°	104.0	100.4	93.5	84.9	76.5	68.3	61.7	56.3	53.0	51.5	51.2
145°	95.6	93.0	86.4	79.5	72.1	65.0	58.9	54.3	51.5	50.0	50.0
147.5°	88.2	85.9	80.0	74.2	67.8	61.9	56.6	52.5	50.0	48.7	48.4
150°	81.1	79.0	74.2	69.3	63.5	58.6	54.0	50.7	48.4	47.4	47.2
152.5°	74.4	72.9	68.8	64.7	59.9	55.6	52.0	49.2	47.2	46.1	46.1
155°	68.8	67.5	64.0	60.4	56.6	53.0	50.0	47.7	46.1	45.4	45.1
157.5°	64.0	62.4	59.6	56.8	53.8	50.7	48.4	46.4	45.4	44.6	44.6
160°	59.4	58.1	55.8	53.8	51.2	48.9	46.9	45.6	44.6	44.1	44.1
162.5°	55.6	54.5	52.8	51.0	49.2	47.4	45.9	44.9	44.1	43.6	43.6
165°	52.3	51.7	50.2	48.9	47.4	46.1	45.1	44.4	43.8	43.6	43.6
167.5°	49.7	49.2	48.2	47.2	46.1	45.1	44.4	43.8	43.6	43.3	43.3
170°	47.7	47.2	46.6	45.9	45.1	44.4	43.8	43.6	43.3	43.3	43.3
172.5°	46.1	45.6	45.4	44.9	44.4	43.8	43.6	43.3	43.3	43.3	43.3
175°	44.9	44.6	44.4	44.1	43.8	43.6	43.3	43.3	43.3	43.3	43.3
177.5°	44.1	43.8	43.8	43.6	43.6	43.3	43.3	43.6	43.6	43.6	43.8
180°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1

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

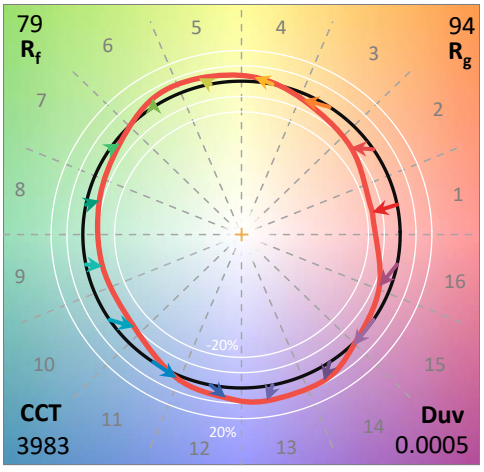
Test Information

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

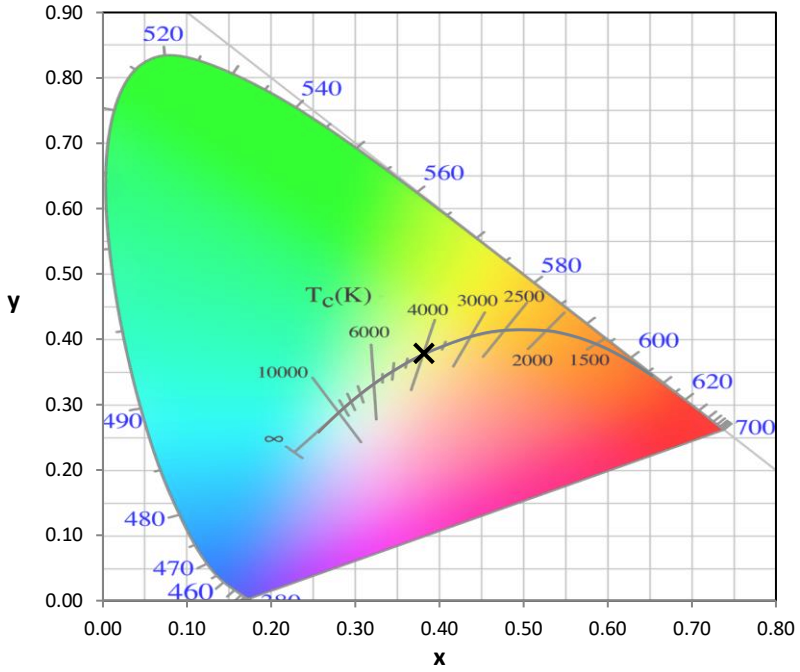
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

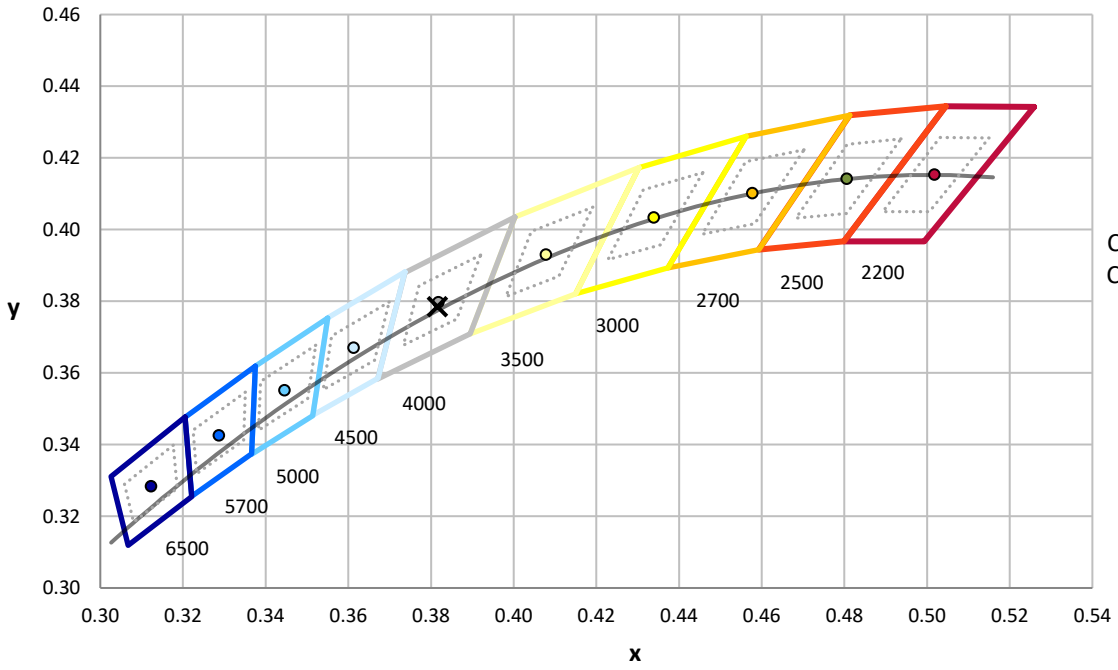
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

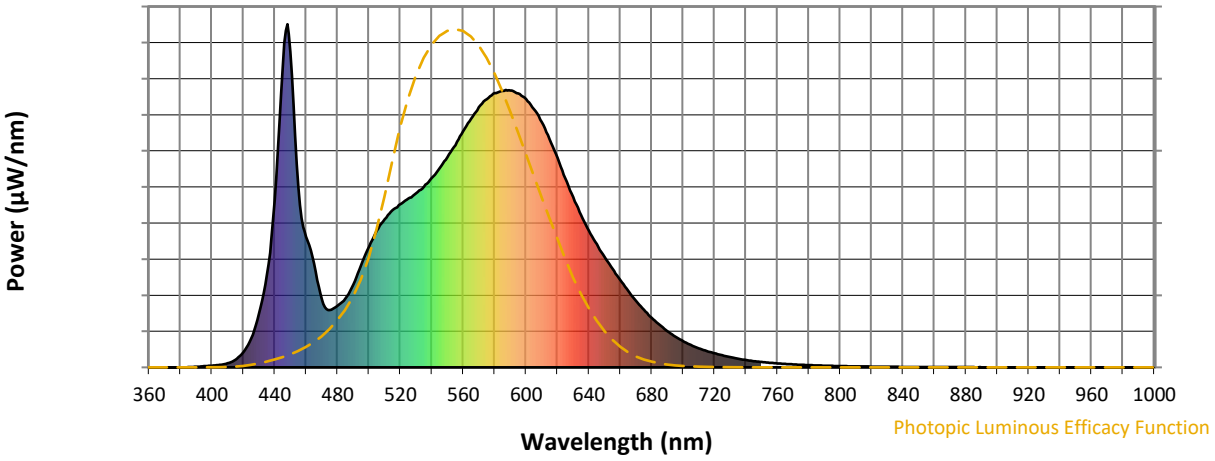


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

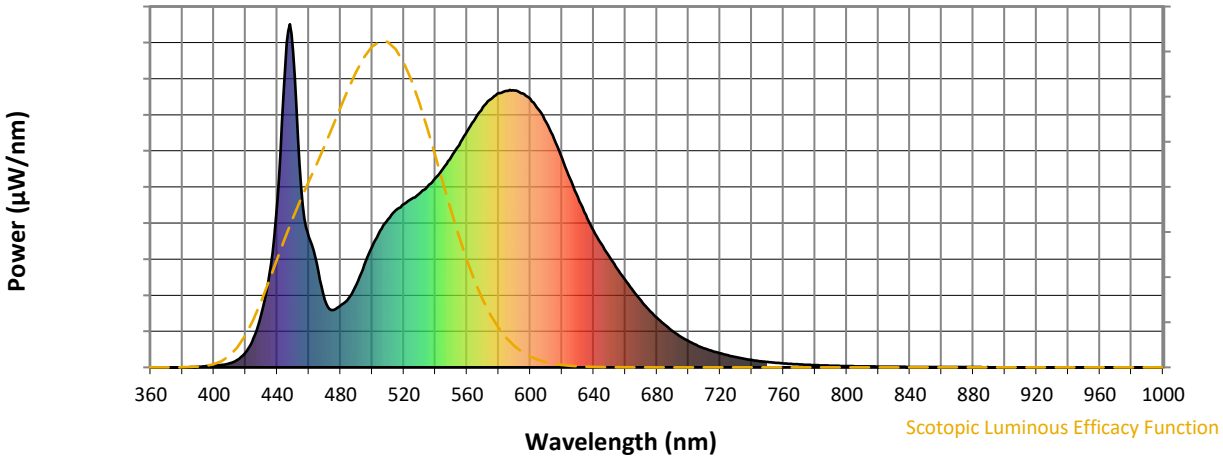


Photopic Lumens: NR

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

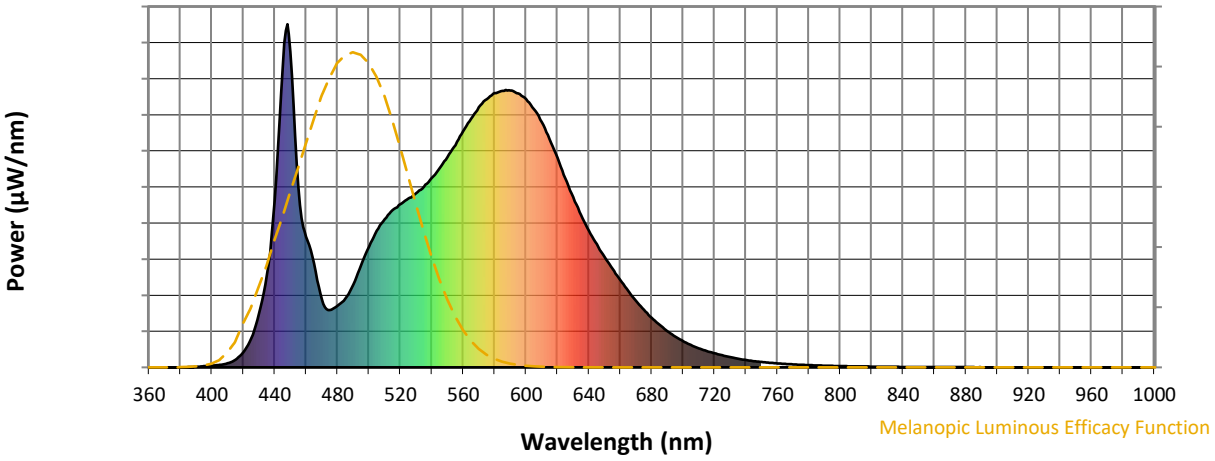


Scotopic Lumens: NR **S/P: 1.61**

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			

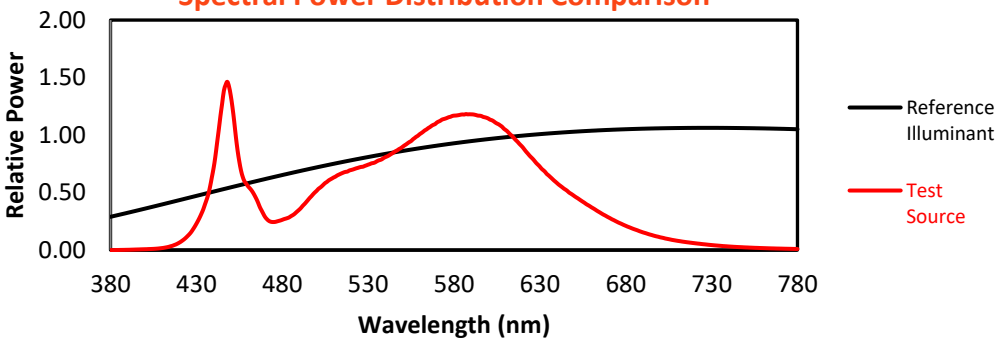
REPORT NUMBER: SP1-2501-332-11

TM-30-18

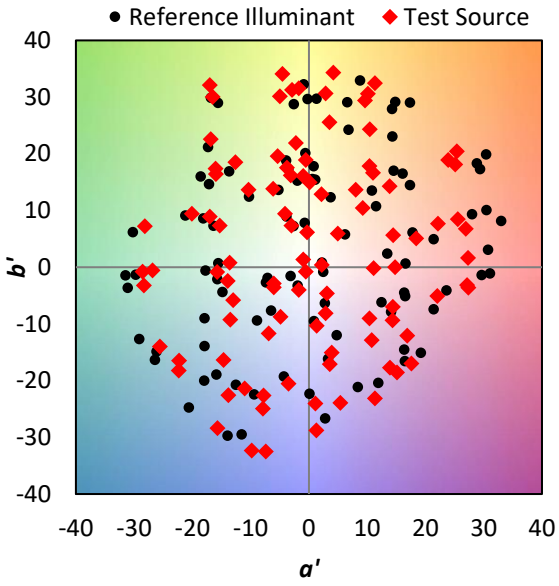
Summary

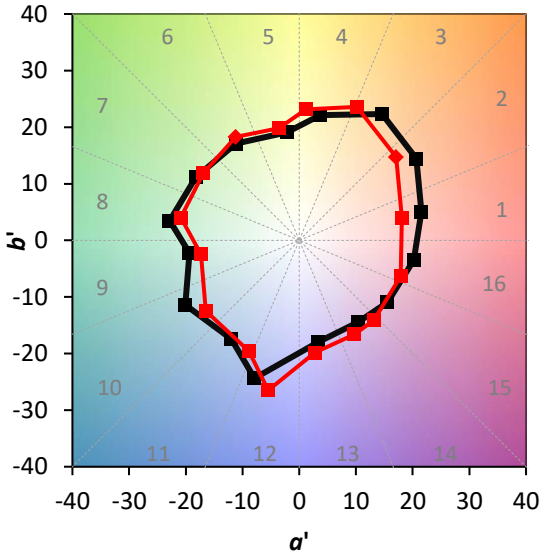
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

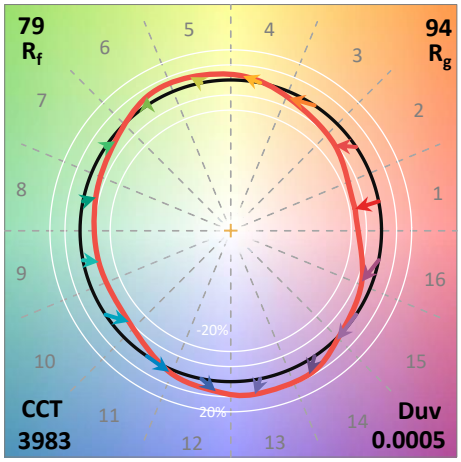
Spectral Power Distribution Comparison

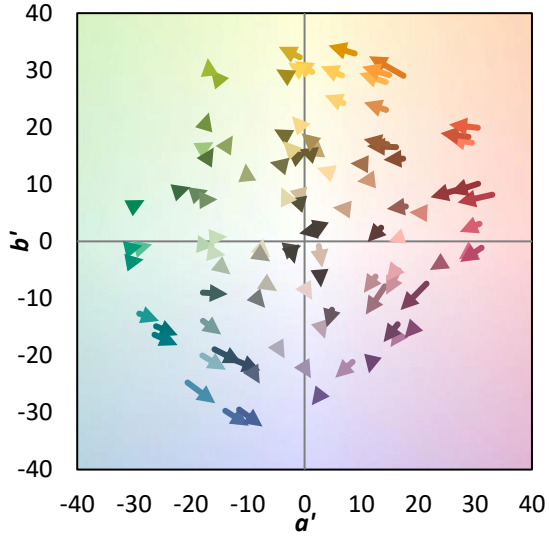


Color Vector Graphics







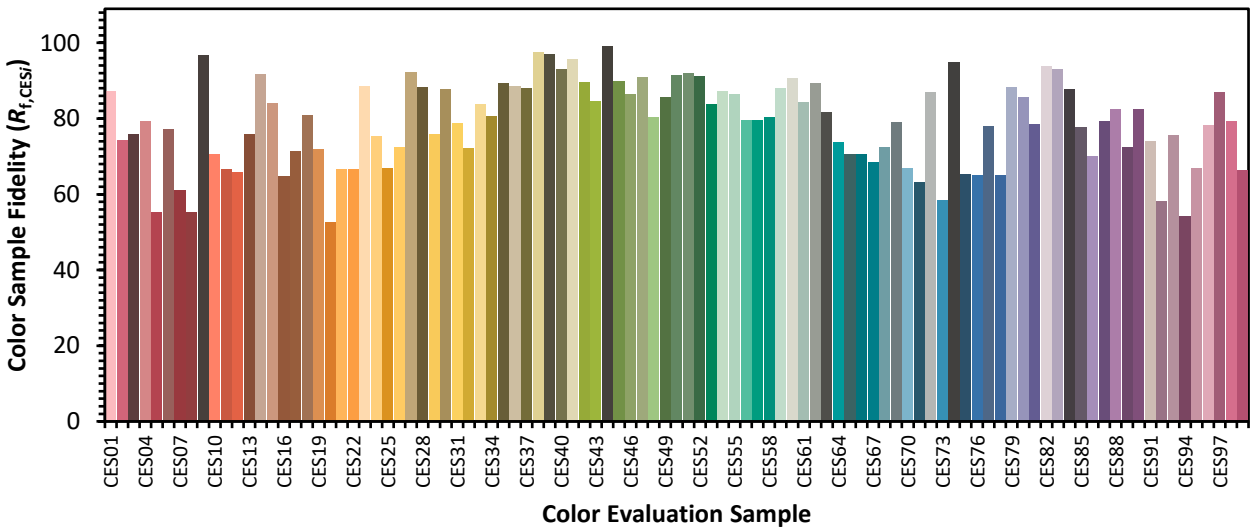


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

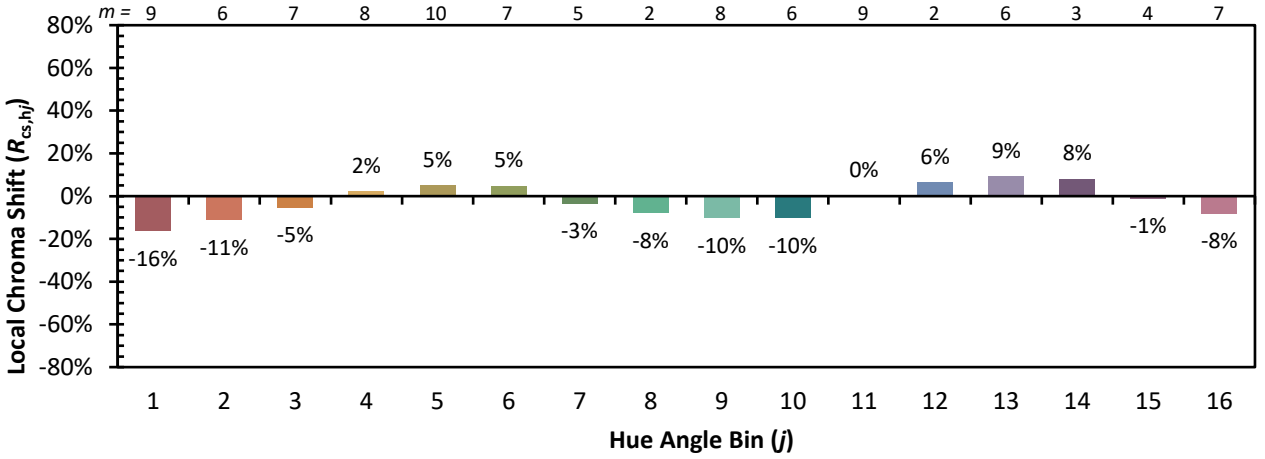
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 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	

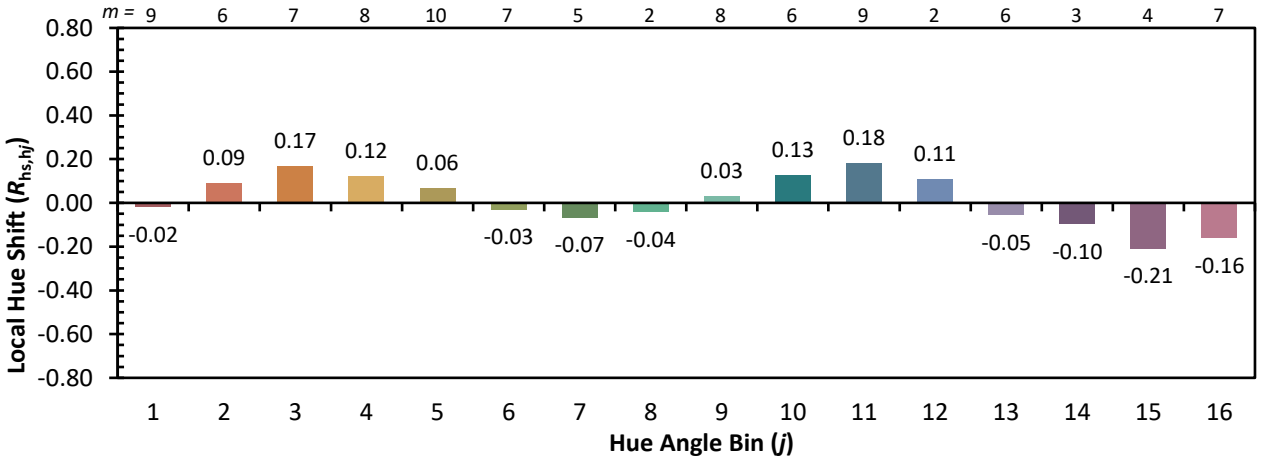


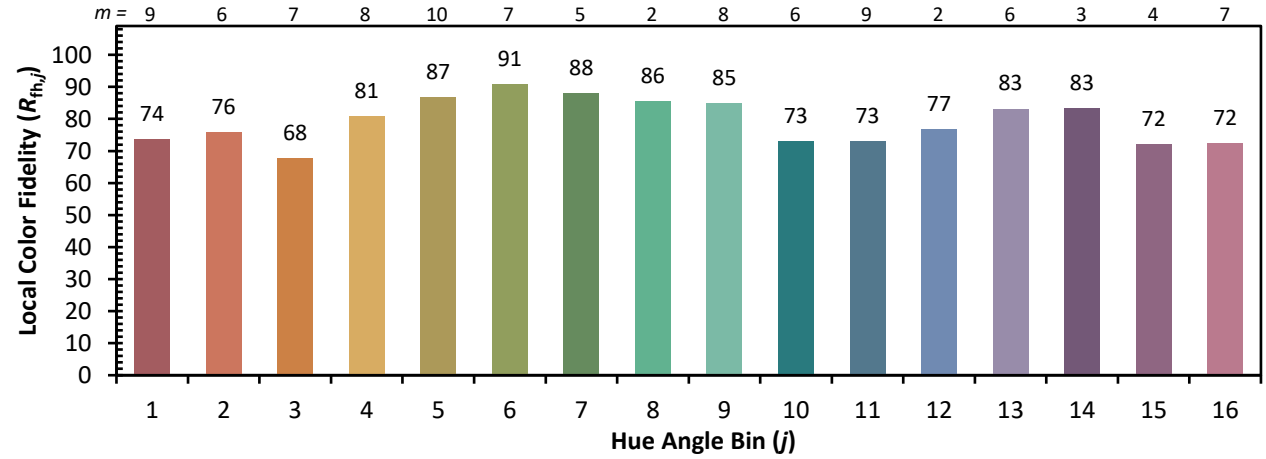
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Color Rendition by Hue-Angle Bin



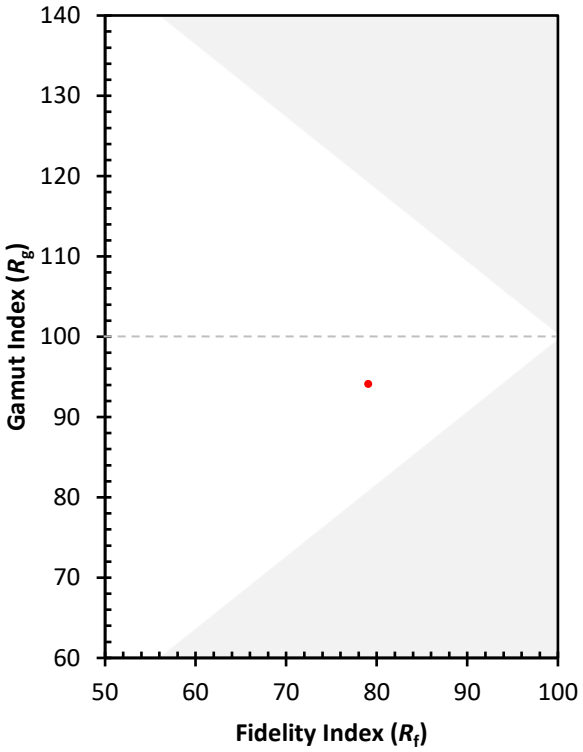


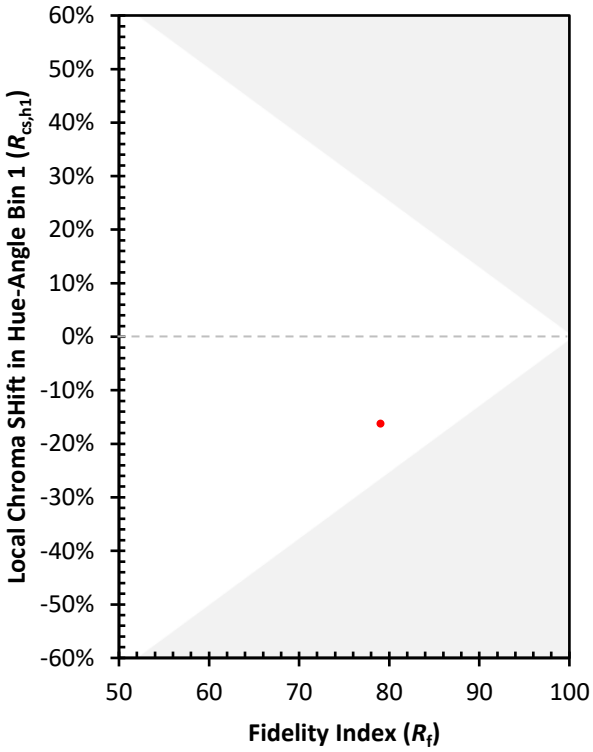


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Measure Comparisons





(END OF REPORT)