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: P1045857

Luminaire Tested: **FFX-CLB-20-740-U-VM8-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:	P1045857
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-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 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:	2327 lumens
Efficiency:	N/A
Efficacy:	117.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U4 - G2

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

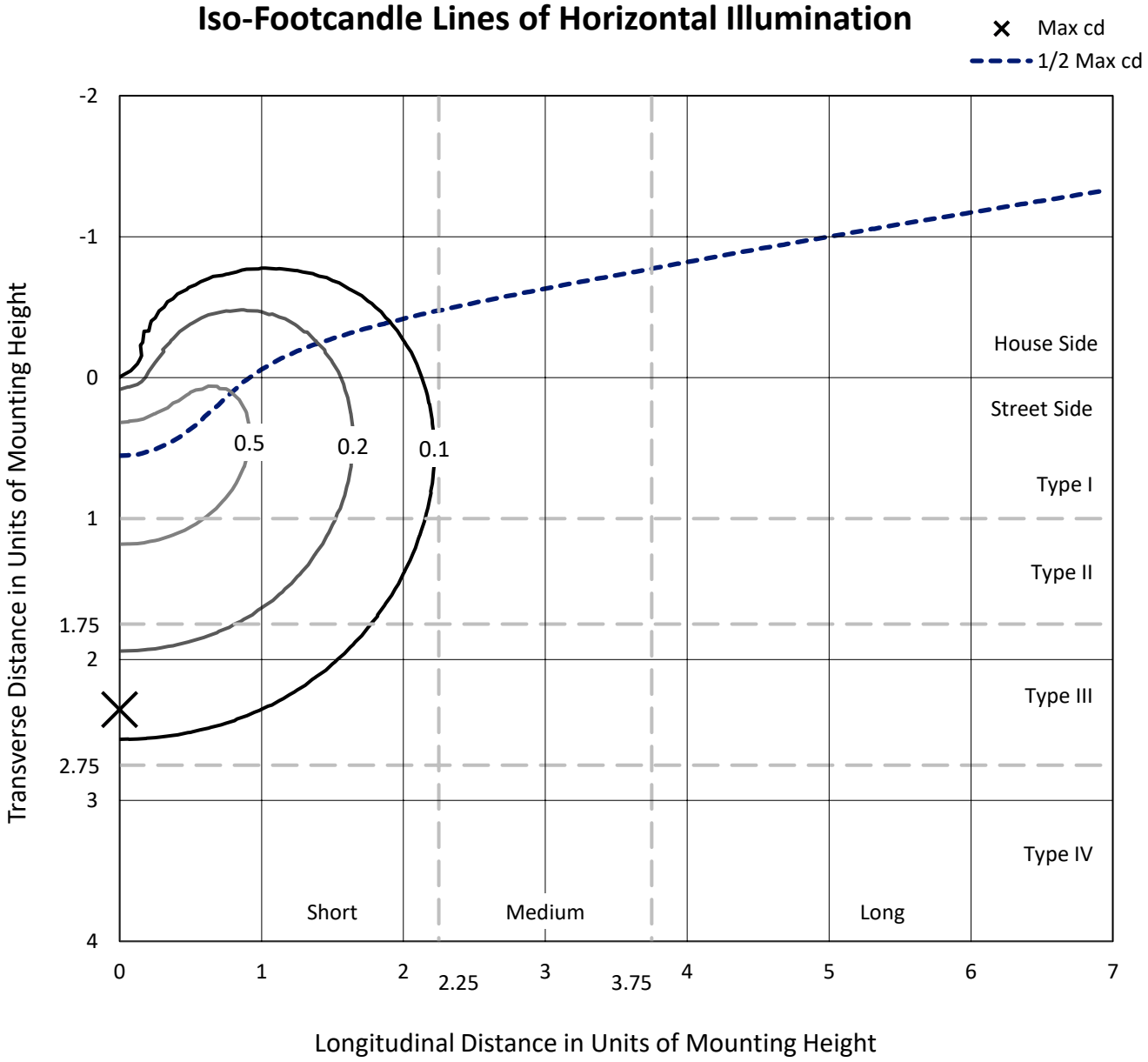


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Iso-Footcandle Lines of Horizontal Illumination



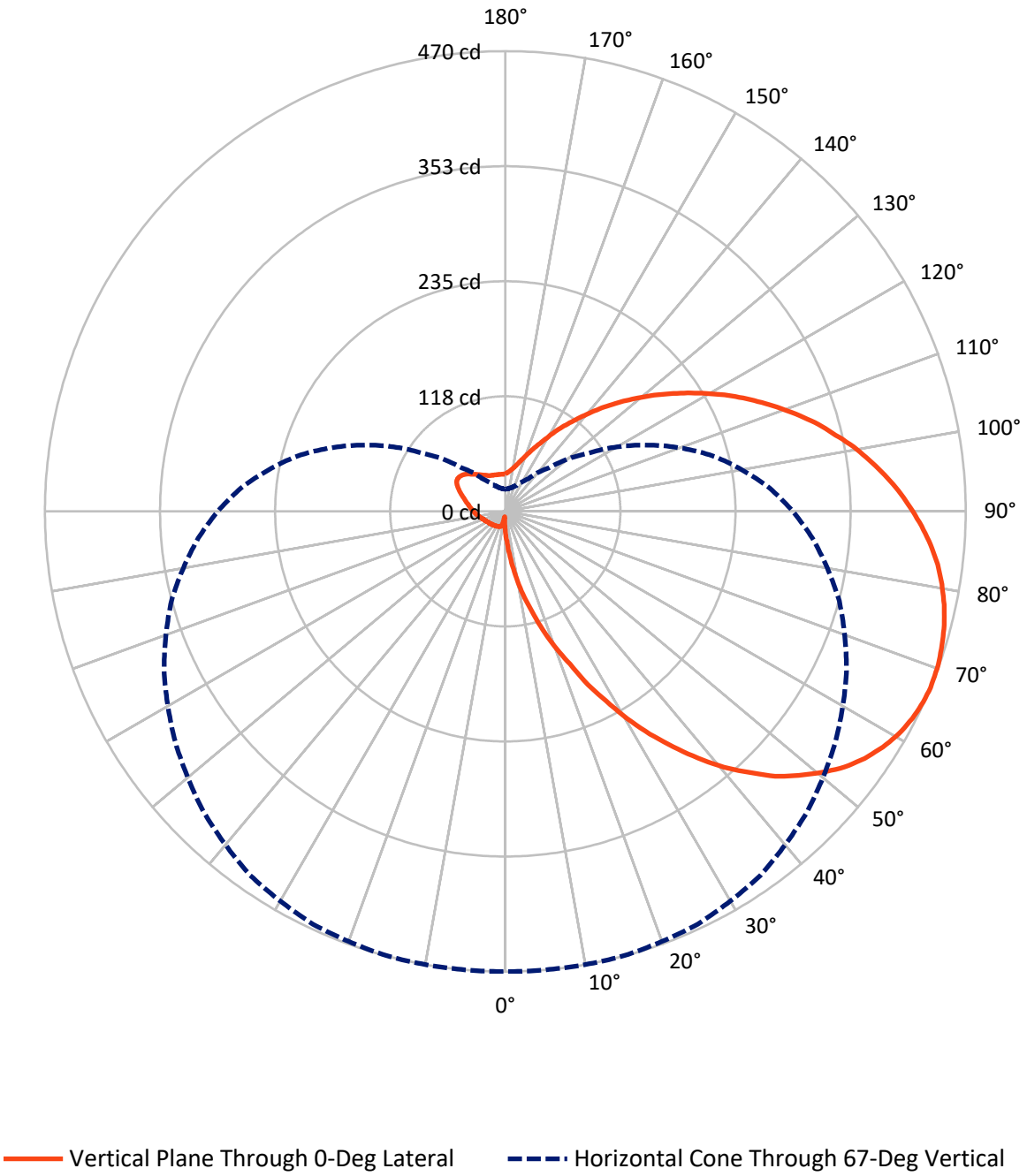
Based on 15 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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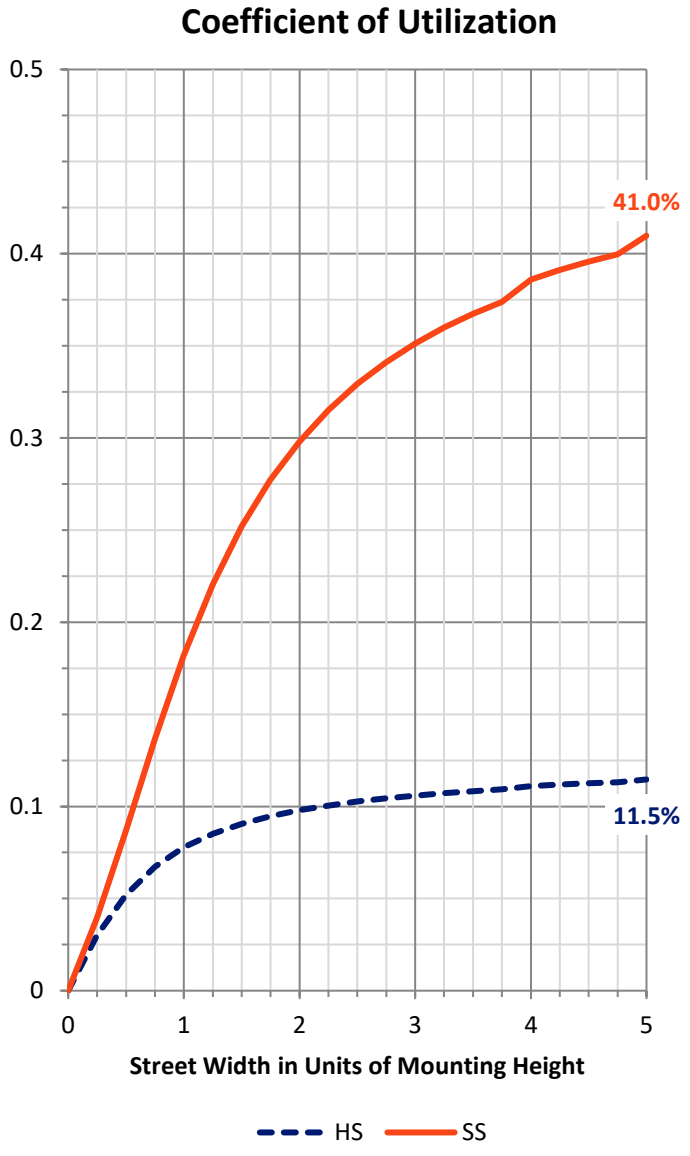
REPORT NUMBER: P1045857
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	288.1	274.5	562.7
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	1086.5	677.8	1764.3
	% Fixture	46.7	29.1	75.8
Total	Lumens	1374.7	952.3	2327.0
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	19.3	0.8
20°-30°	54.0	2.3
30°-40°	108.0	4.6
40°-50°	169.8	7.3
50°-60°	223.2	9.6
60°-70°	257.7	11.1
70°-80°	272.0	11.7
80°-90°	267.5	11.5
90°-100°	245.5	10.6
100°-110°	212.4	9.1
110°-120°	174.3	7.5
120°-130°	132.9	5.7
130°-140°	89.5	3.8
140°-150°	53.0	2.3
150°-160°	27.9	1.2
160°-170°	13.0	0.6
170°-180°	3.8	0.2
0°-90°	1374.7	59.1
0°-180°	2327.0	100.0



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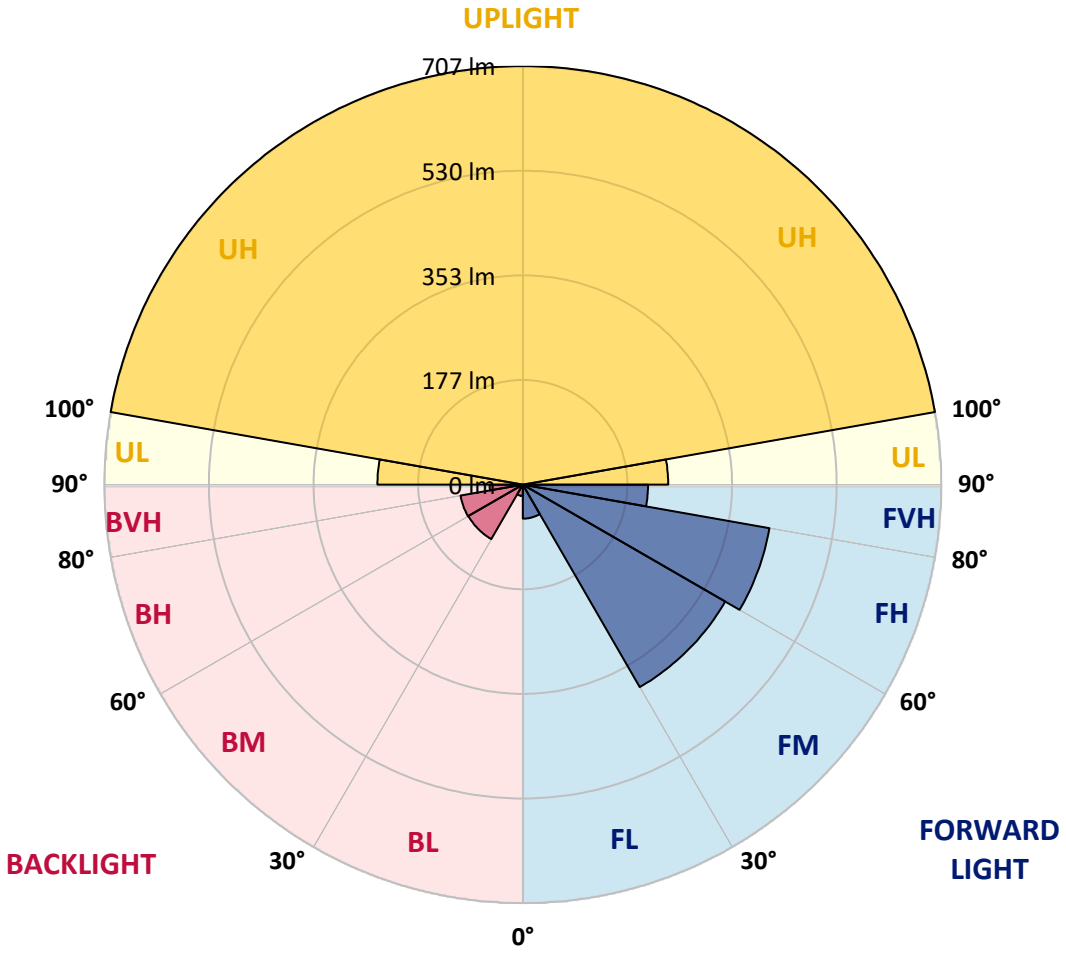
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	57.4	2.5			
FM	(30°-60°)	394.8	17.0			
FH	(60°-80°)	422.9	18.2			G0/660
FVH	(80°-90°)	211.4	9.1			G2/225
BL	(0°-30°)	19.0	0.8	B0/110		
BM	(30°-60°)	106.2	4.6	B0/220		
BH	(60°-80°)	106.8	4.6	B0/110		G0/110
BVH	(80°-90°)	56.1	2.4			G1/100
UL	(90°-100°)	245.5	10.6		U3/500	
UH	(100°-180°)	706.8	30.4		U4/1000	

BUG Rating: B0-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
2.5°	30.0	30.6	30.6	30.3	30.0	29.5	29.0	28.0	26.0	24.4	22.9
5°	43.5	43.5	43.8	43.5	42.5	41.5	39.2	37.4	34.1	31.6	28.8
7.5°	59.1	59.8	59.6	58.8	57.0	54.7	51.9	48.6	45.3	41.5	37.2
10°	76.4	76.1	76.1	75.1	73.1	70.0	67.0	63.1	58.3	53.5	47.9
12.5°	92.7	93.4	92.9	91.7	89.1	86.8	83.0	78.7	73.1	68.0	60.3
15°	110.2	110.7	110.7	110.0	107.7	104.4	100.1	96.0	88.6	81.5	74.1
17.5°	130.4	129.6	128.6	128.6	125.8	123.0	118.6	113.0	104.9	97.0	87.1
20°	150.5	150.2	148.9	148.2	146.4	142.3	136.7	130.4	122.2	113.3	101.6
22.5°	169.3	171.9	171.6	170.3	168.0	164.0	157.8	150.2	141.8	130.6	117.1
25°	196.0	194.5	194.8	193.5	191.5	186.6	180.5	171.6	161.4	148.9	133.7
27.5°	219.2	218.7	218.7	217.9	215.1	210.0	202.9	194.5	182.8	168.0	151.0
30°	245.9	244.7	244.2	243.4	240.6	235.0	227.6	217.2	204.4	189.4	169.3
32.5°	271.1	270.1	268.3	268.1	266.0	260.2	251.8	241.1	226.6	209.0	186.9
35°	295.3	295.8	295.1	293.8	291.0	285.4	277.3	264.3	250.0	229.6	205.7
37.5°	319.8	319.5	320.0	319.0	314.7	309.3	299.7	285.9	269.6	247.5	222.3
40°	343.7	342.4	342.2	341.2	338.1	332.8	321.8	307.8	289.5	266.6	238.0
42.5°	364.3	364.8	364.3	363.3	359.2	353.1	341.7	326.1	306.8	282.1	252.8
45°	386.0	385.2	384.9	384.9	379.6	373.2	360.8	344.7	323.1	296.6	265.5
47.5°	403.0	404.0	403.5	402.3	398.7	390.8	377.6	360.0	337.3	310.1	277.0
50°	419.1	420.3	420.6	419.3	415.0	406.3	392.6	373.0	350.1	321.3	286.9
52.5°	433.8	433.6	434.3	433.6	429.5	420.6	404.8	384.9	360.2	330.7	294.6
55°	445.3	445.3	445.8	444.8	441.0	431.0	414.7	393.6	368.4	338.1	301.2
57.5°	454.4	455.0	454.7	454.4	450.1	439.7	422.4	400.5	375.0	343.4	306.0
60°	461.6	461.8	461.8	461.3	457.0	446.0	428.5	405.8	379.3	348.0	309.8
62.5°	466.2	466.4	466.4	465.9	461.6	450.4	432.6	409.1	382.4	350.8	312.4
65°	469.0	469.2	469.2	468.7	464.4	452.9	434.6	410.9	383.9	352.4	313.9
67°	470.0	470.0	470.0	469.7	465.1	453.9	435.1	411.2	384.4	352.9	314.7
67.5°	469.7	469.7	470.0	469.5	465.1	453.7	434.8	411.2	384.2	352.9	314.7
70°	469.0	469.0	469.0	468.5	464.1	452.7	433.8	409.9	383.4	352.4	314.4
72.5°	466.2	466.4	466.4	465.9	461.6	450.4	431.5	407.6	381.4	350.8	313.7
75°	462.9	462.9	462.9	462.3	458.0	446.8	428.2	404.5	378.8	348.8	312.1
77.5°	458.0	458.0	458.0	457.5	453.2	442.2	423.9	400.7	375.5	346.0	310.3
80°	451.9	452.2	451.9	451.4	447.1	436.1	418.6	395.9	371.2	342.7	307.8
82.5°	444.8	445.0	444.8	443.8	439.7	429.2	411.7	389.5	366.1	338.4	304.7
85°	435.6	435.4	435.6	434.1	430.5	420.1	404.0	382.4	359.7	333.3	300.4
87.5°	425.2	425.4	424.9	424.2	419.8	409.6	394.4	374.3	352.4	327.2	295.3
90°	413.7	413.7	413.5	412.4	407.9	398.7	384.2	364.8	344.5	320.3	290.0
92.5°	402.0	401.7	401.0	400.5	396.4	387.0	373.0	355.7	336.6	313.4	284.4
95°	389.0	389.0	388.5	387.5	382.9	375.3	361.8	345.5	327.4	306.0	278.5
97.5°	375.3	375.0	374.8	373.2	369.2	361.5	350.6	334.8	318.2	298.1	271.9
100°	361.8	361.0	360.5	359.0	355.4	348.0	337.6	323.8	307.8	289.5	264.8
102.5°	346.0	346.0	345.7	344.2	339.6	333.5	324.1	311.9	298.1	280.6	257.1
105°	332.0	330.7	330.2	328.7	325.1	318.5	310.6	299.9	287.2	270.9	249.5
107.5°	316.2	315.2	314.9	312.6	309.8	303.7	297.1	287.2	276.5	262.0	241.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*300.2*	299.7	299.4	297.1	293.5	289.5	282.6	274.7	265.3	252.0	234.2
112.5°	*284.4*	283.9	283.9	282.1	278.8	273.7	268.9	262.0	253.6	242.1	225.6
115°	*268.9*	268.1	267.8	265.8	262.5	258.7	253.8	249.0	241.9	232.2	217.2
117.5°	*253.3*	252.3	252.6	250.8	248.2	244.4	239.8	236.5	230.4	221.5	208.8
120°	*237.3*	237.5	237.5	235.2	233.0	229.9	226.1	222.8	218.7	210.8	199.1
122.5°	*222.0*	222.5	222.5	221.0	218.2	215.4	212.8	209.8	206.2	200.1	189.7
125°	*206.7*	207.7	207.2	206.0	203.7	200.6	198.8	196.3	193.5	188.4	179.2
127.5°	*192.7*	192.7	191.5	191.7	189.4	186.9	185.3	183.6	180.8	175.9	168.5
130°	*178.2*	178.5	178.7	177.2	175.2	173.1	171.6	170.8	168.5	164.5	157.1
132.5°	*165.0*	165.0	164.5	163.4	161.7	160.1	160.1	157.8	156.1	152.2	145.9
135°	*152.0*	151.7	151.7	150.7	149.4	148.7	146.9	145.9	144.1	140.5	135.7
137.5°	*139.3*	139.8	139.3	138.5	137.2	136.2	134.9	134.7	132.1	129.6	124.2
140°	*127.0*	127.8	127.0	126.8	125.8	124.5	123.7	122.7	122.0	118.6	114.1
142.5°	*115.6*	116.1	115.6	115.3	114.6	113.5	113.0	112.3	110.5	108.5	104.6
145°	*105.7*	105.4	105.4	105.1	104.1	103.4	102.6	102.1	101.1	99.0	94.7
147.5°	*96.0*	95.2	95.7	95.2	94.5	93.9	93.7	92.7	91.7	89.6	86.6
150°	*86.1*	86.6	86.3	86.1	85.3	85.3	84.5	83.8	83.0	80.7	78.7
152.5°	*77.9*	77.9	78.2	77.7	77.4	76.6	76.1	75.9	74.9	73.3	71.0
155°	*71.0*	70.8	70.8	70.8	70.3	69.5	69.2	68.7	68.2	66.4	64.4
157.5°	*64.4*	64.4	64.4	64.2	64.2	63.4	63.1	62.4	61.6	60.6	58.8
160°	*58.8*	58.8	58.6	58.6	58.3	58.0	57.5	56.8	56.3	55.5	54.0
162.5°	*54.2*	54.0	54.0	53.7	53.5	53.0	52.7	52.4	51.7	50.9	49.6
165°	*49.9*	49.9	49.9	49.6	49.4	49.1	48.9	48.4	47.9	47.4	46.6
167.5°	*46.6*	46.6	46.6	46.3	46.3	46.1	45.8	45.3	44.8	44.3	43.8
170°	*44.0*	44.0	44.0	43.8	43.5	43.3	43.0	42.8	42.5	42.0	41.8
172.5°	*42.0*	42.0	42.0	42.0	41.5	41.2	41.0	41.0	40.7	40.5	40.2
175°	*40.2*	40.2	40.2	40.2	40.0	39.7	39.5	39.5	39.2	39.0	38.7
177.5°	*39.2*	39.2	39.2	39.0	39.0	38.7	38.4	38.4	38.2	38.2	37.9
180°	*37.9*	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
2.5°	21.9	20.9	19.1	17.6	16.3	15.0	14.3	13.5	13.5	13.7	13.2
5°	26.5	24.7	21.4	17.8	14.8	12.2	10.2	8.4	6.9	6.1	6.1
7.5°	35.1	33.1	28.5	23.9	19.6	15.5	12.2	9.4	7.1	5.9	5.6
10°	45.1	42.8	36.4	30.8	25.5	20.4	16.0	12.2	9.7	8.4	8.1
12.5°	56.5	53.5	45.8	38.7	31.8	25.5	20.1	15.8	13.2	12.0	11.7
15°	69.8	64.9	56.3	47.4	38.4	30.6	24.2	19.3	16.5	14.8	14.8
17.5°	81.7	76.6	66.2	54.7	44.6	35.4	27.8	21.9	18.1	16.3	16.0
20°	95.5	88.6	76.1	62.9	50.4	39.2	30.0	23.4	18.8	16.5	16.5
22.5°	109.5	102.3	87.1	71.0	56.0	42.8	32.3	24.4	19.3	16.8	16.5
25°	126.0	116.3	98.0	79.9	62.4	46.6	34.4	25.5	19.9	17.3	16.8
27.5°	142.1	132.1	110.7	88.9	68.2	50.4	36.2	26.5	20.4	17.6	17.3
30°	158.9	146.6	122.5	98.0	74.3	53.7	37.9	27.2	20.6	17.8	17.3
32.5°	175.7	162.2	135.4	106.9	80.2	56.8	39.5	27.8	21.1	18.1	17.6
35°	192.7	178.2	147.9	115.8	85.5	59.6	40.5	28.3	21.4	18.1	17.8
37.5°	207.5	192.2	159.6	124.0	90.1	61.9	41.5	28.8	21.4	18.3	18.1
40°	222.3	205.7	169.8	130.9	94.2	63.6	42.3	29.0	21.6	18.6	18.3
42.5°	235.5	217.2	178.7	137.0	97.5	64.9	42.5	29.0	21.9	18.8	18.6
45°	247.5	228.9	187.1	142.8	100.3	65.7	42.8	29.3	22.1	19.1	18.8
47.5°	258.4	238.6	194.8	147.7	102.6	66.4	42.8	29.3	22.4	19.6	19.1
50°	267.6	246.7	201.1	151.7	104.1	66.7	42.5	29.3	22.7	19.9	19.6
52.5°	274.7	253.6	206.5	154.5	105.1	66.4	42.3	29.3	22.9	20.1	19.9
55°	280.8	259.2	210.3	156.8	105.4	65.9	42.0	29.3	23.2	20.6	20.4
57.5°	285.4	263.2	213.6	158.6	105.7	65.4	41.5	29.3	23.4	20.9	20.6
60°	289.0	266.8	216.1	159.6	105.4	64.7	41.2	29.3	23.7	21.4	21.1
62.5°	291.5	268.9	217.7	159.9	104.6	63.9	40.7	29.3	23.9	21.9	21.6
65°	293.0	270.4	219.0	160.1	103.9	63.1	40.5	29.5	24.4	22.7	22.4
67°	*293.5*	*271.1*	*219.2*	*160.1*	*103.4*	*62.6*	*40.5*	*29.8*	*25.0*	*22.9*	*22.7*
67.5°	293.8	271.1	219.2	159.9	103.1	62.6	40.5	29.8	25.0	23.2	22.9
70°	293.5	271.1	219.2	159.4	102.3	62.1	40.2	30.3	25.7	23.9	23.7
72.5°	293.0	270.6	218.7	158.6	101.3	61.6	40.5	30.8	26.5	24.7	24.4
75°	291.8	269.6	217.7	157.6	100.6	61.1	40.7	31.3	27.2	25.7	25.5
77.5°	290.5	268.3	216.9	156.6	99.8	61.1	41.0	32.1	28.3	26.7	26.5
80°	288.2	266.6	215.4	155.6	99.0	60.8	41.5	33.1	29.3	27.8	27.5
82.5°	285.4	264.0	213.3	154.0	98.3	60.8	42.3	33.9	30.3	28.8	28.5
85°	281.6	260.7	210.8	152.0	97.5	61.1	42.8	34.9	31.3	30.0	29.8
87.5°	277.3	256.6	207.7	150.2	96.7	61.1	43.5	35.9	32.3	31.1	31.1
90°	272.2	252.3	204.2	148.2	96.0	61.6	44.6	36.9	33.6	32.3	32.3
92.5°	267.6	247.7	201.4	146.1	95.5	62.1	45.6	38.2	34.9	33.6	33.6
95°	261.5	242.9	197.3	144.4	95.2	62.6	46.6	39.5	36.4	35.1	34.9
97.5°	255.6	237.5	193.7	142.3	95.0	63.6	47.9	41.0	37.7	36.4	36.4
100°	249.2	232.2	189.7	140.5	95.0	64.9	49.6	42.5	39.5	38.2	37.9
102.5°	243.1	226.3	185.6	138.8	95.5	66.2	51.4	44.3	41.2	40.0	39.7
105°	236.3	220.2	182.0	137.2	96.0	68.0	53.5	46.6	43.3	42.0	41.8
107.5°	229.4	214.6	178.0	136.0	97.0	70.3	56.0	48.9	45.6	44.0	43.8

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

Scaled Data Report

REPORT NUMBER: P1045857
CATALOG NUMBER: FFX-CLB-20-740-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	222.0	208.5	174.4	134.9	98.5	72.8	58.8	51.9	48.1	46.6	46.3
112.5°	215.1	202.4	170.6	134.2	100.1	75.9	62.1	54.7	51.2	49.1	48.9
115°	207.5	196.0	167.0	133.4	101.8	78.9	65.7	57.8	54.0	51.9	51.9
117.5°	200.1	189.4	162.9	132.6	103.6	82.2	69.0	61.1	56.8	54.7	54.5
120°	191.5	182.3	158.6	131.1	104.6	84.8	71.8	63.9	59.1	57.0	56.8
122.5°	182.8	174.4	153.0	128.8	104.9	86.3	73.8	66.2	61.1	58.8	58.6
125°	172.9	165.7	147.2	125.3	104.1	87.1	75.1	67.0	61.9	59.3	59.1
127.5°	163.2	156.3	140.3	120.9	102.1	86.3	74.9	67.0	61.9	59.1	58.8
130°	152.8	146.6	132.1	115.6	98.8	84.5	73.8	65.9	60.8	58.0	57.8
132.5°	142.1	137.0	124.2	109.7	94.7	81.7	71.5	64.2	59.1	56.5	56.3
135°	131.6	127.0	116.1	103.1	90.4	78.4	69.0	61.9	56.8	54.5	54.5
137.5°	121.7	117.4	107.7	96.7	85.3	74.6	65.9	59.1	54.7	52.4	51.9
140°	111.5	107.9	99.5	89.9	79.9	70.5	62.6	56.3	52.2	50.2	49.9
142.5°	102.1	99.0	91.9	84.0	74.9	66.7	59.3	54.0	50.2	48.1	47.9
145°	93.2	90.4	84.3	77.1	69.8	62.6	56.0	51.2	47.9	46.3	46.1
147.5°	84.3	82.5	77.4	71.5	64.7	58.3	53.0	48.9	45.8	44.6	44.3
150°	76.9	74.6	70.8	65.4	60.1	54.7	50.2	46.6	44.3	43.0	43.0
152.5°	69.5	68.2	64.4	60.3	55.8	51.4	47.4	44.6	42.8	41.8	41.8
155°	63.9	62.1	58.8	55.5	51.7	48.1	45.3	43.0	41.5	40.7	40.5
157.5°	58.0	57.0	54.5	51.4	48.6	45.8	43.5	41.8	40.5	40.0	39.7
160°	53.2	52.4	50.4	48.1	45.8	43.8	42.0	40.7	39.7	39.2	39.2
162.5°	49.1	48.6	46.8	45.3	43.5	42.0	40.7	39.7	39.2	39.0	39.0
165°	46.1	45.6	44.3	43.0	42.0	40.7	40.0	39.2	38.7	38.7	38.7
167.5°	43.5	43.0	42.3	41.5	40.7	39.7	39.2	38.7	38.7	38.4	38.4
170°	41.5	41.2	40.5	40.0	39.5	39.0	38.7	38.4	38.2	38.2	38.2
172.5°	40.0	39.7	39.2	39.0	38.4	38.2	38.2	38.2	38.2	38.2	38.2
175°	38.7	38.4	38.4	38.2	37.9	37.9	37.7	37.9	37.9	37.9	37.9
177.5°	37.9	37.9	37.7	37.7	37.7	37.7	37.7	37.9	37.9	38.2	38.2
180°	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9

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: SP1-2501-332-11

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

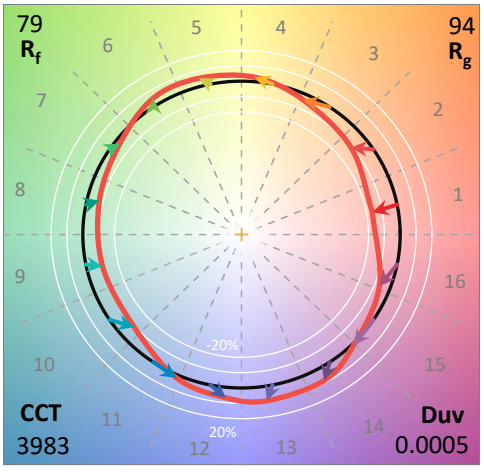
Test Information

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

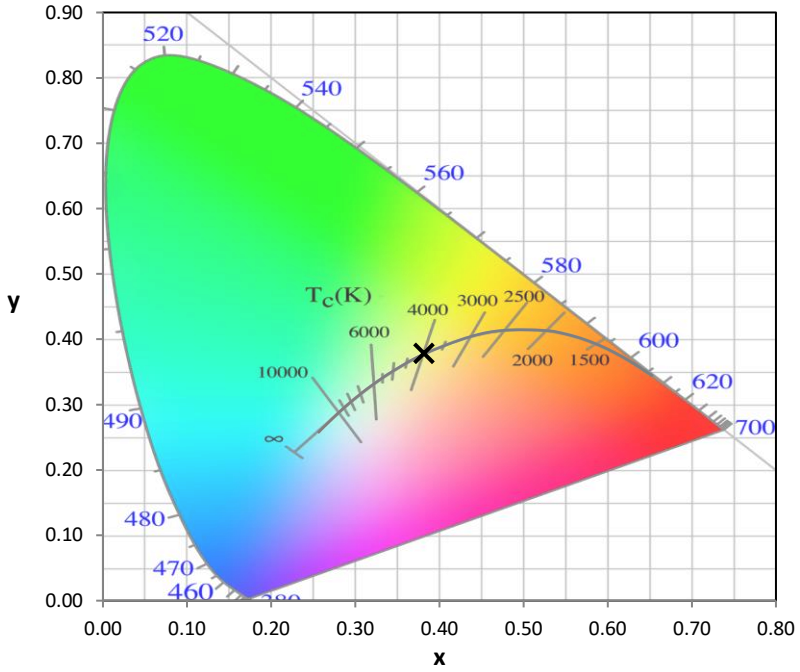
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

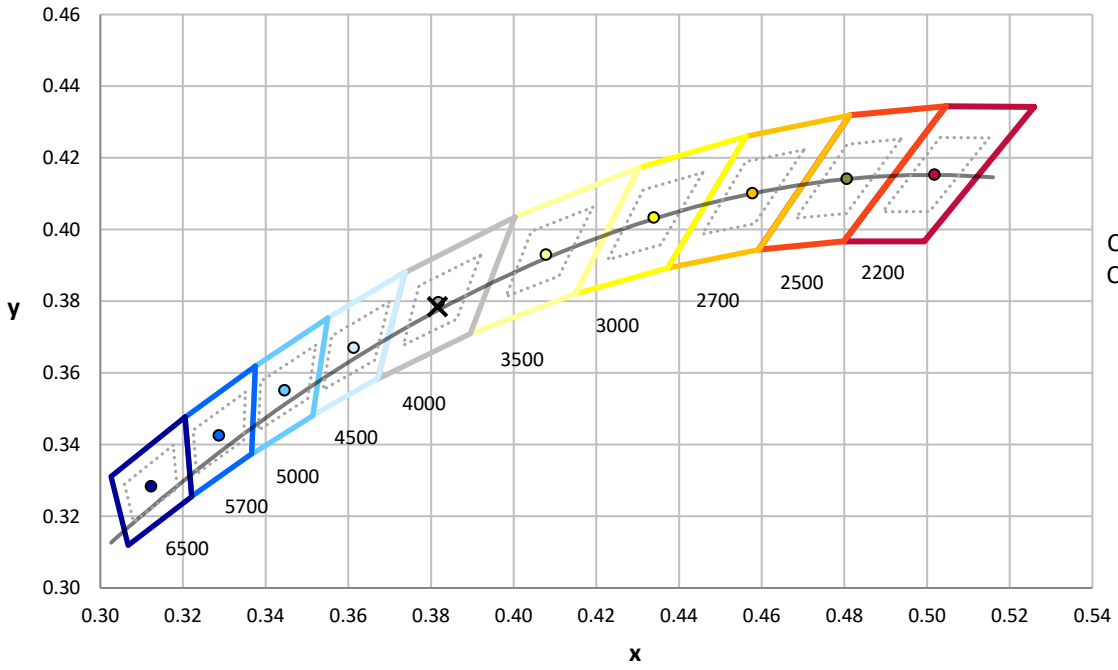
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

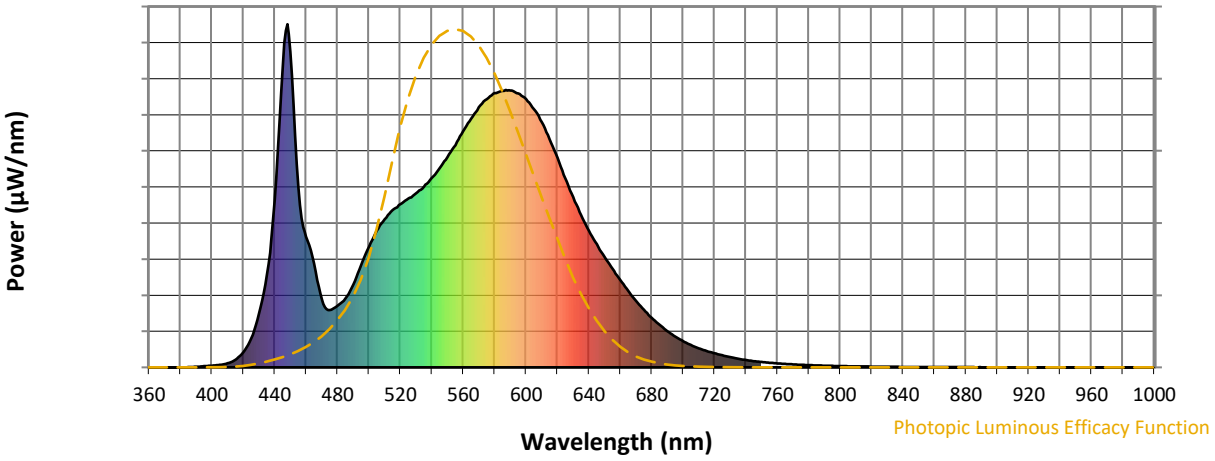


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

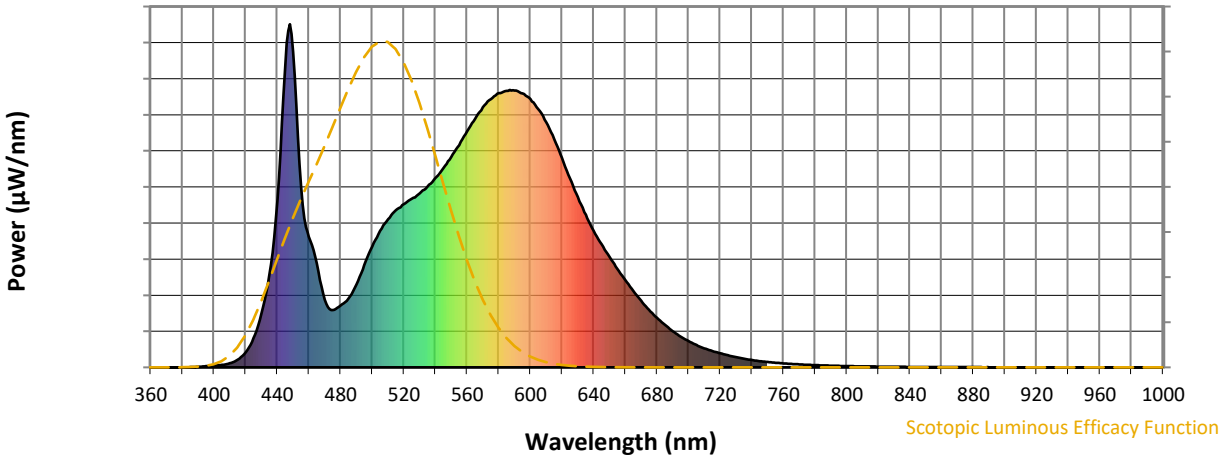


Photopic Lumens: NR

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

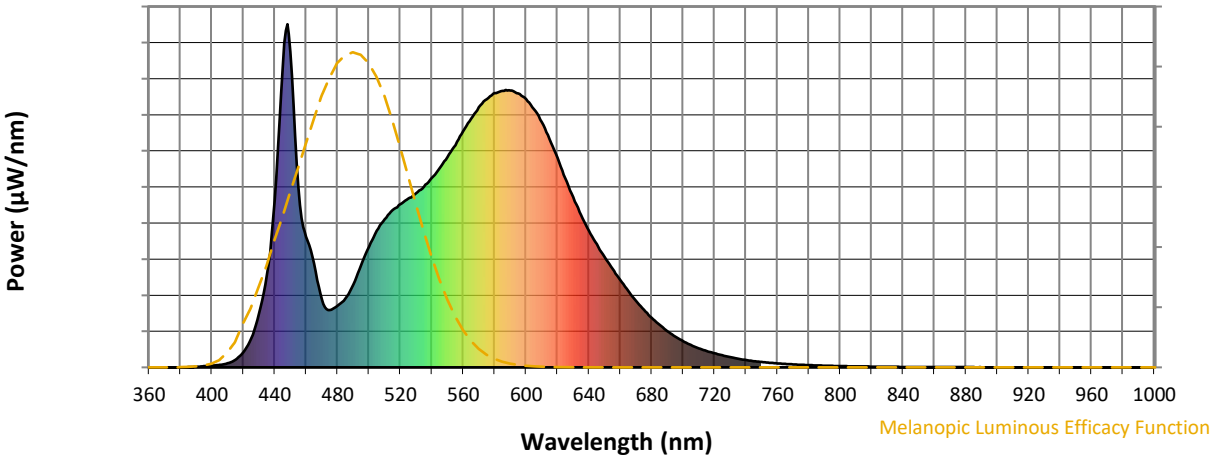


Scotopic Lumens: NR **S/P: 1.61**

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			

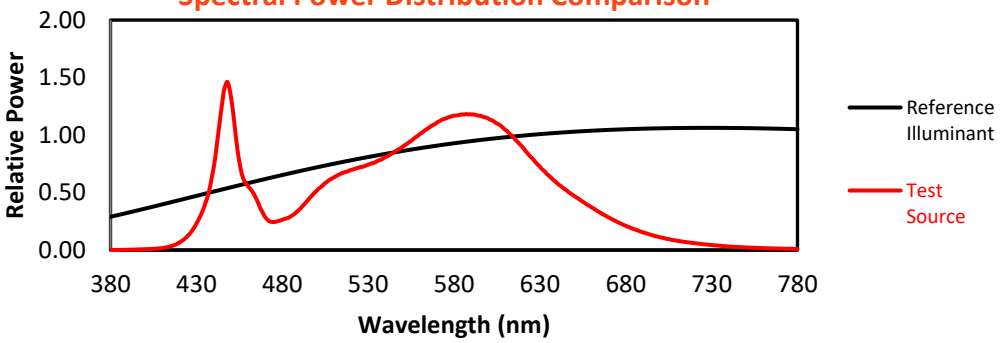
REPORT NUMBER: SP1-2501-332-11

TM-30-18

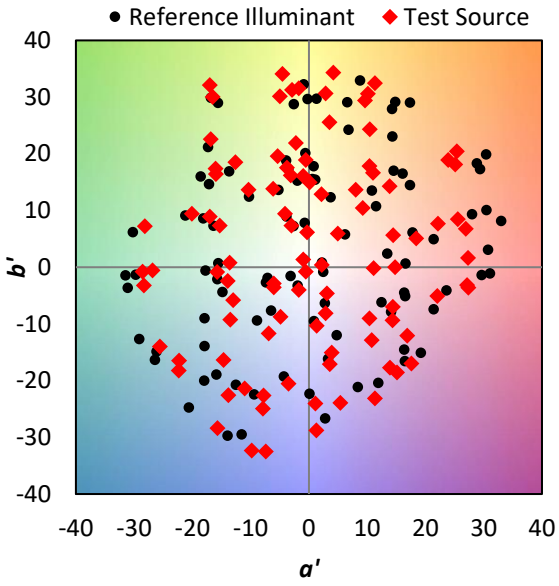
Summary

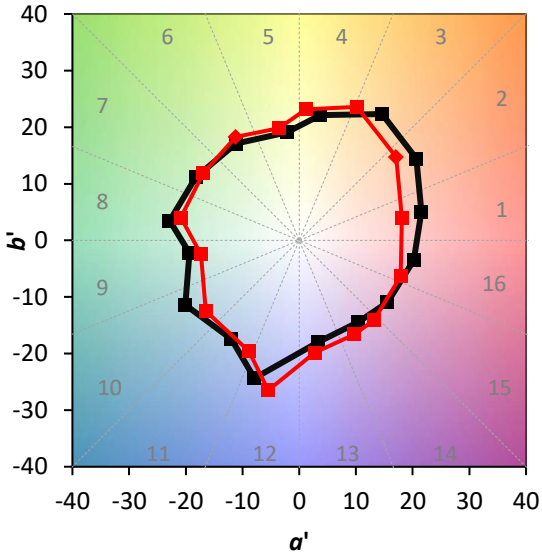
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

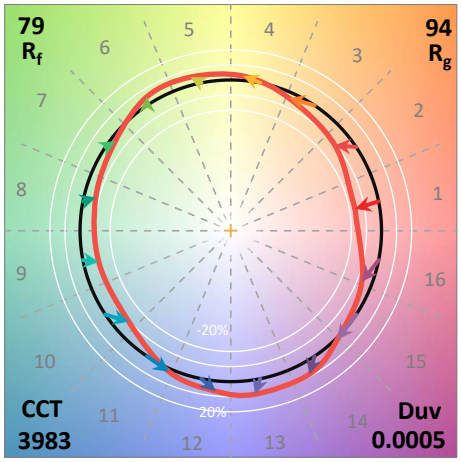
Spectral Power Distribution Comparison

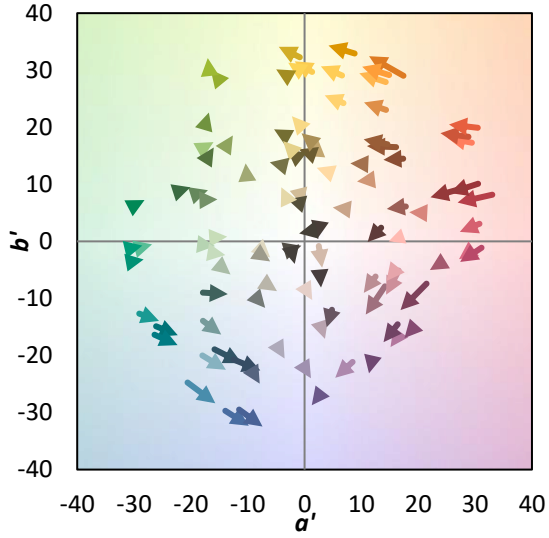


Color Vector Graphics







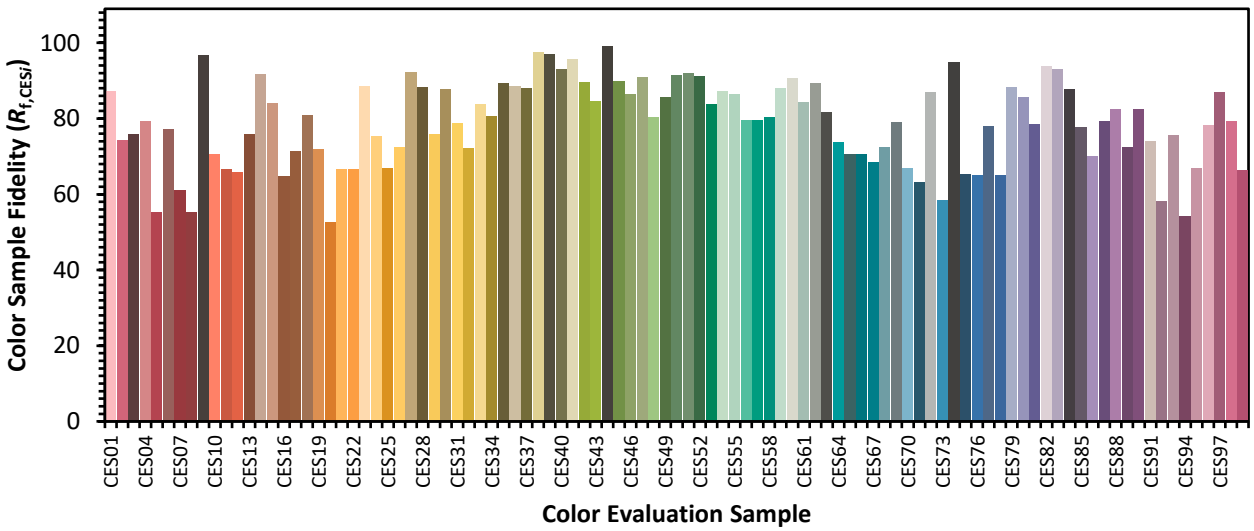


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

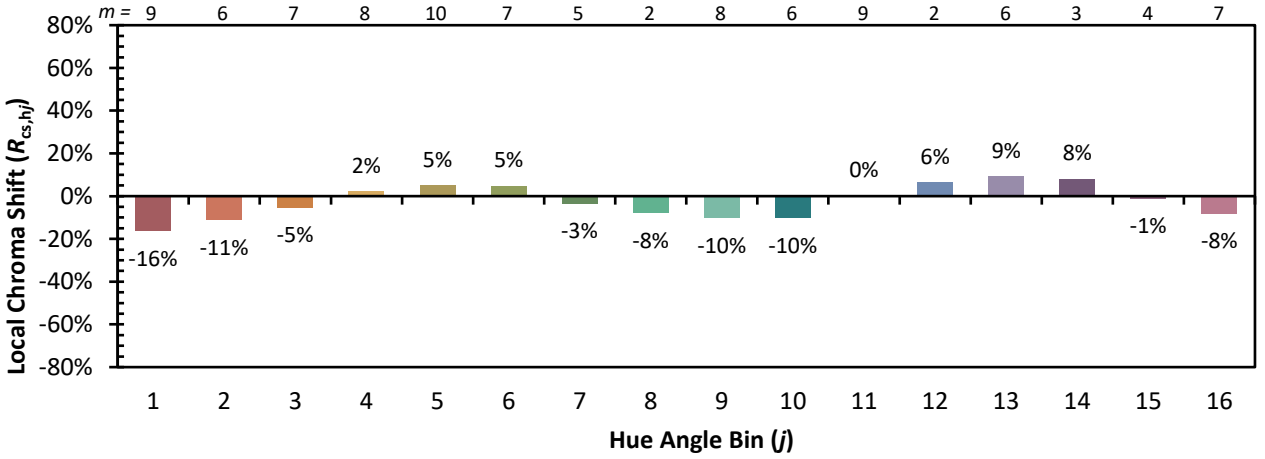
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57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

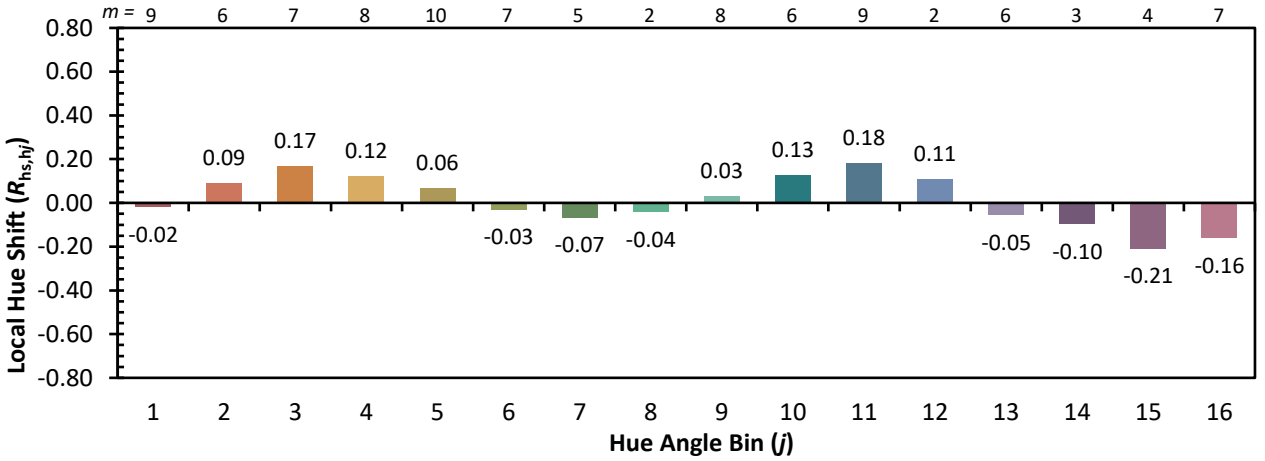


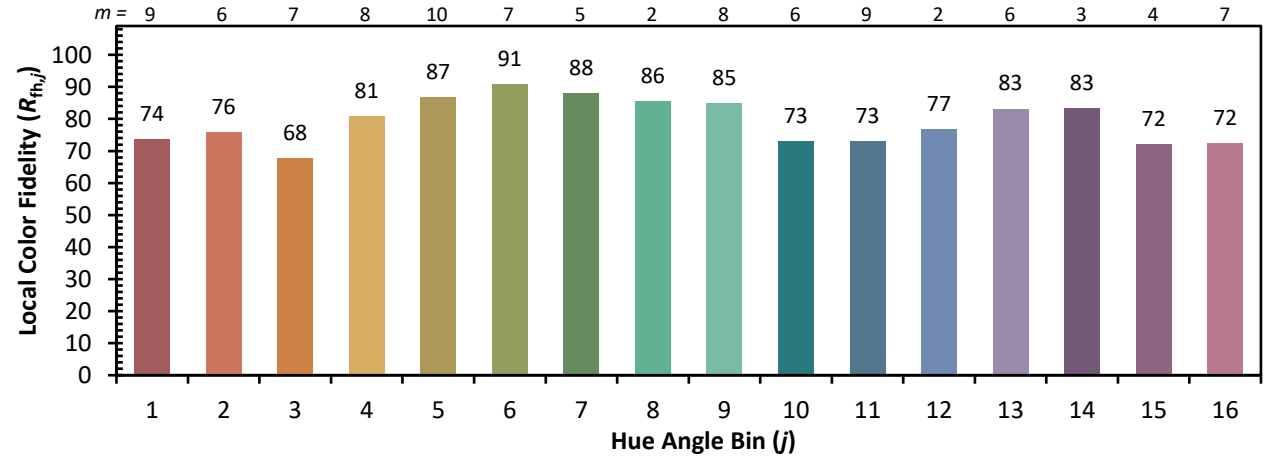
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Color Rendition by Hue-Angle Bin



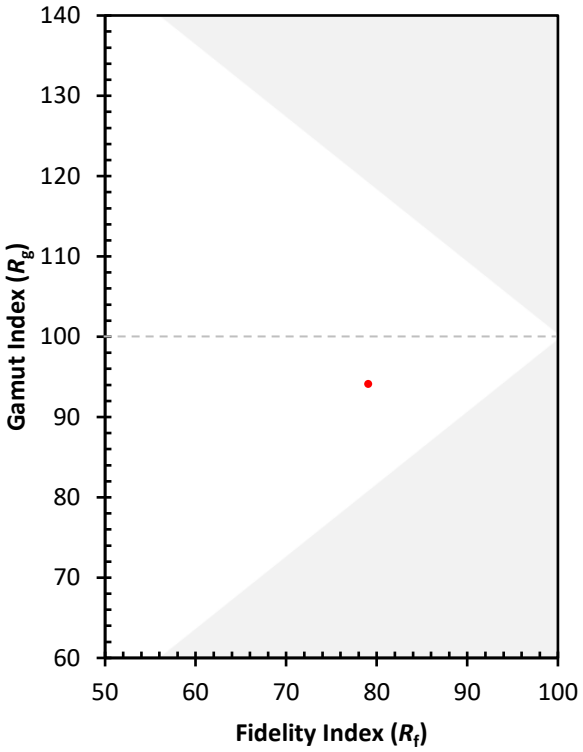


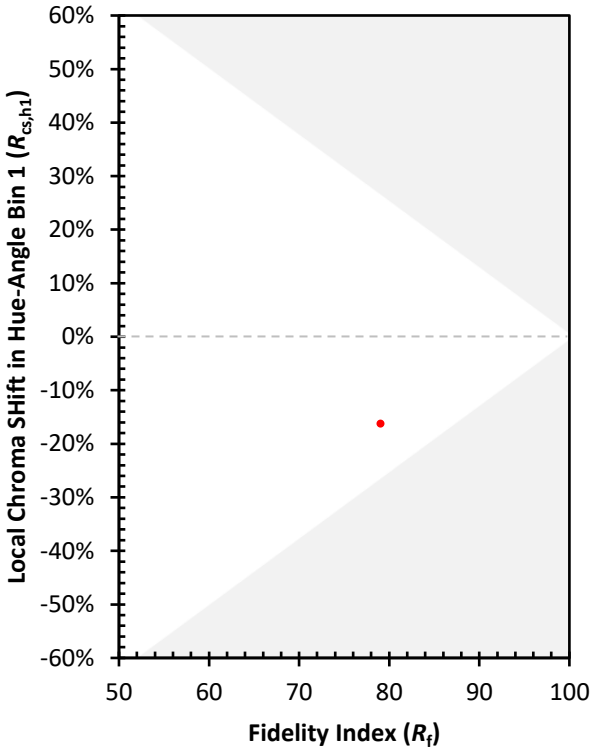


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Measure Comparisons





(END OF REPORT)