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: P1223895

Luminaire Tested: **FFX-CLB-20-727-U-VM9-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223895
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-727-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2945.3 lumens
Efficiency:	N/A
Efficacy:	148.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - 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

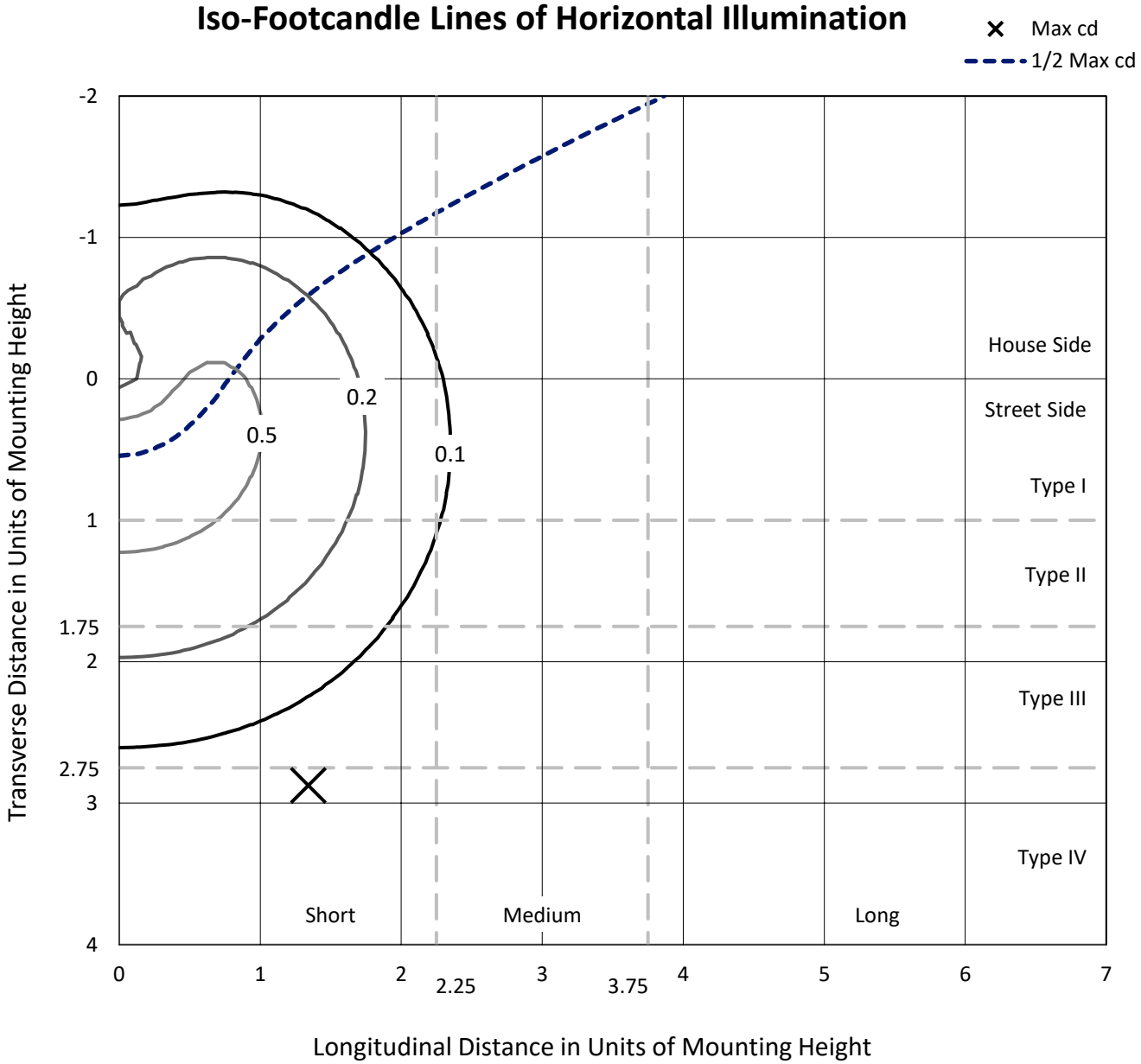


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Iso-Footcandle Lines of Horizontal Illumination



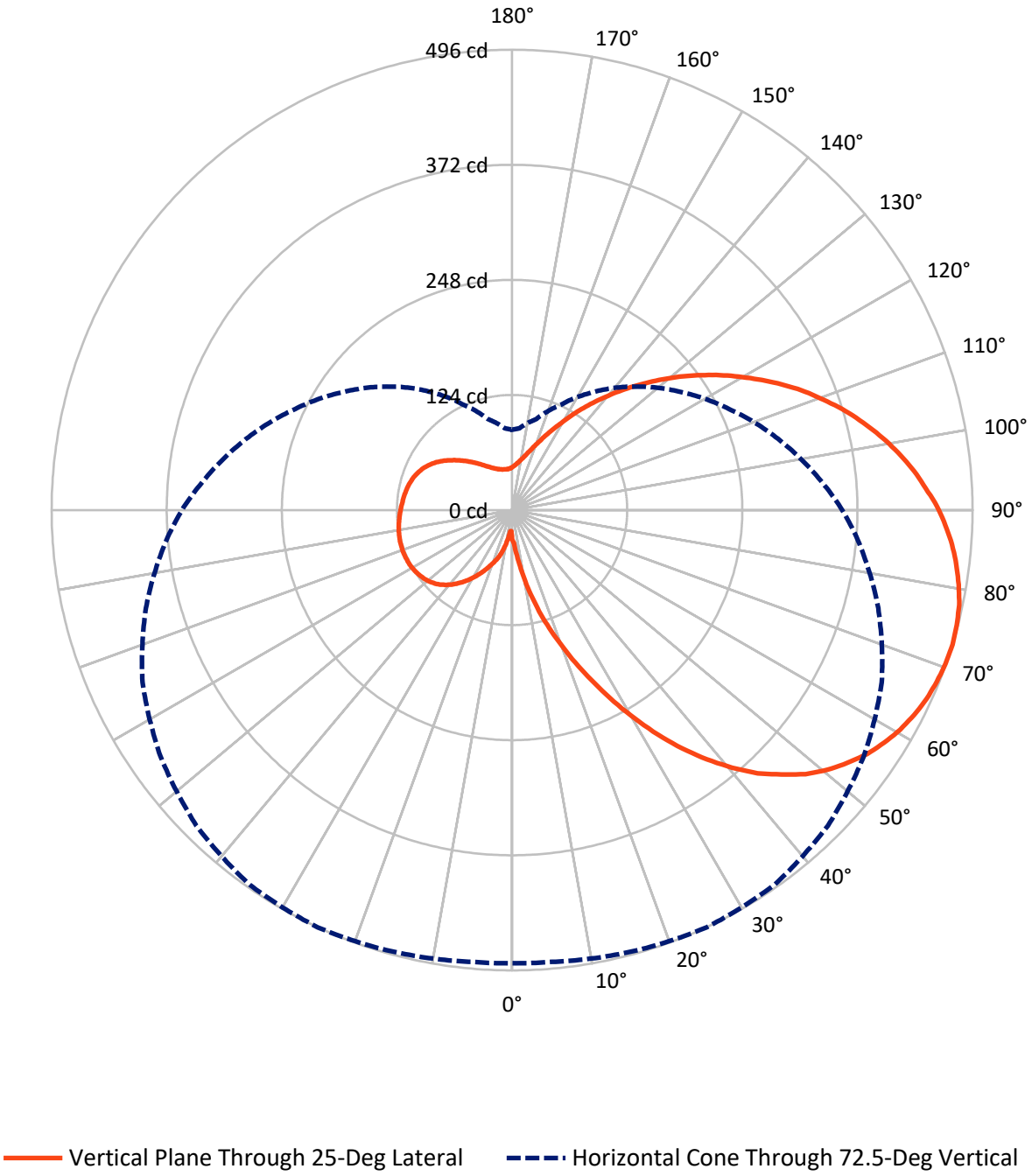
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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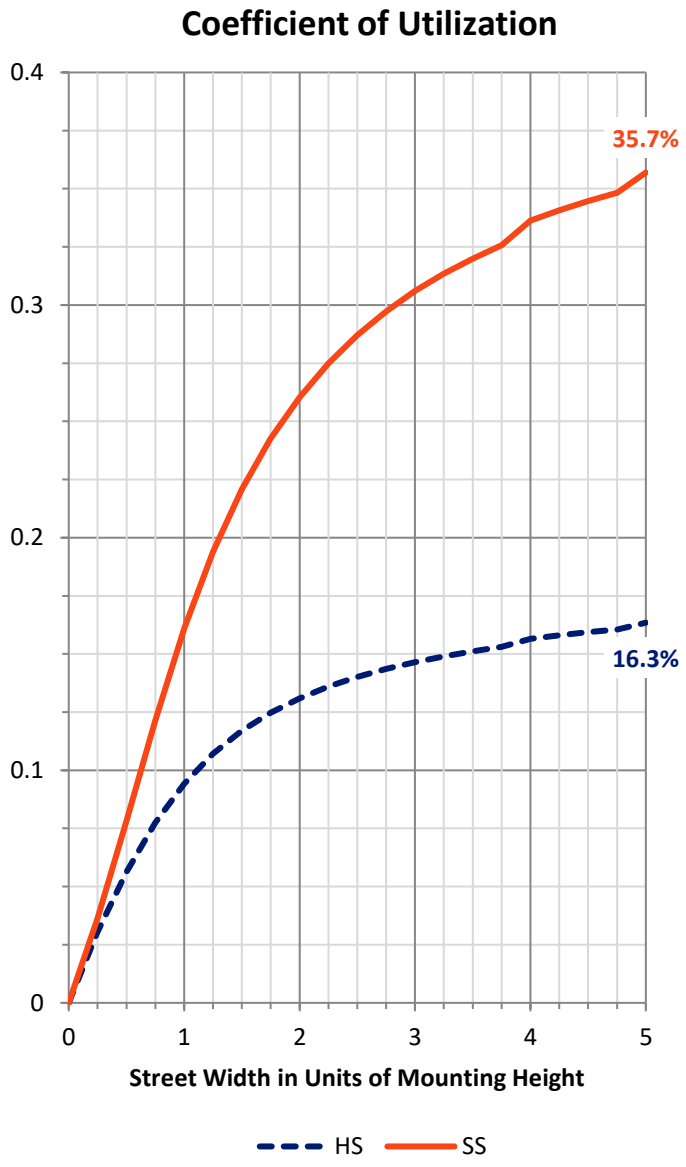
REPORT NUMBER: P1223895
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	530.7	406.1	936.7
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	1200.2	808.4	2008.6
	% Fixture	40.7	27.4	68.2
Total	Lumens	1730.9	1214.5	2945.3
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.1
10°-20°	25.0	0.8
20°-30°	68.1	2.3
30°-40°	135.0	4.6
40°-50°	210.7	7.2
50°-60°	276.2	9.4
60°-70°	322.3	10.9
70°-80°	345.8	11.7
80°-90°	343.5	11.7
90°-100°	318.7	10.8
100°-110°	277.6	9.4
110°-120°	224.6	7.6
120°-130°	165.3	5.6
130°-140°	109.3	3.7
140°-150°	64.7	2.2
150°-160°	34.0	1.2
160°-170°	15.7	0.5
170°-180°	4.5	0.2
0°-90°	1730.9	58.8
0°-180°	2945.3	100.0



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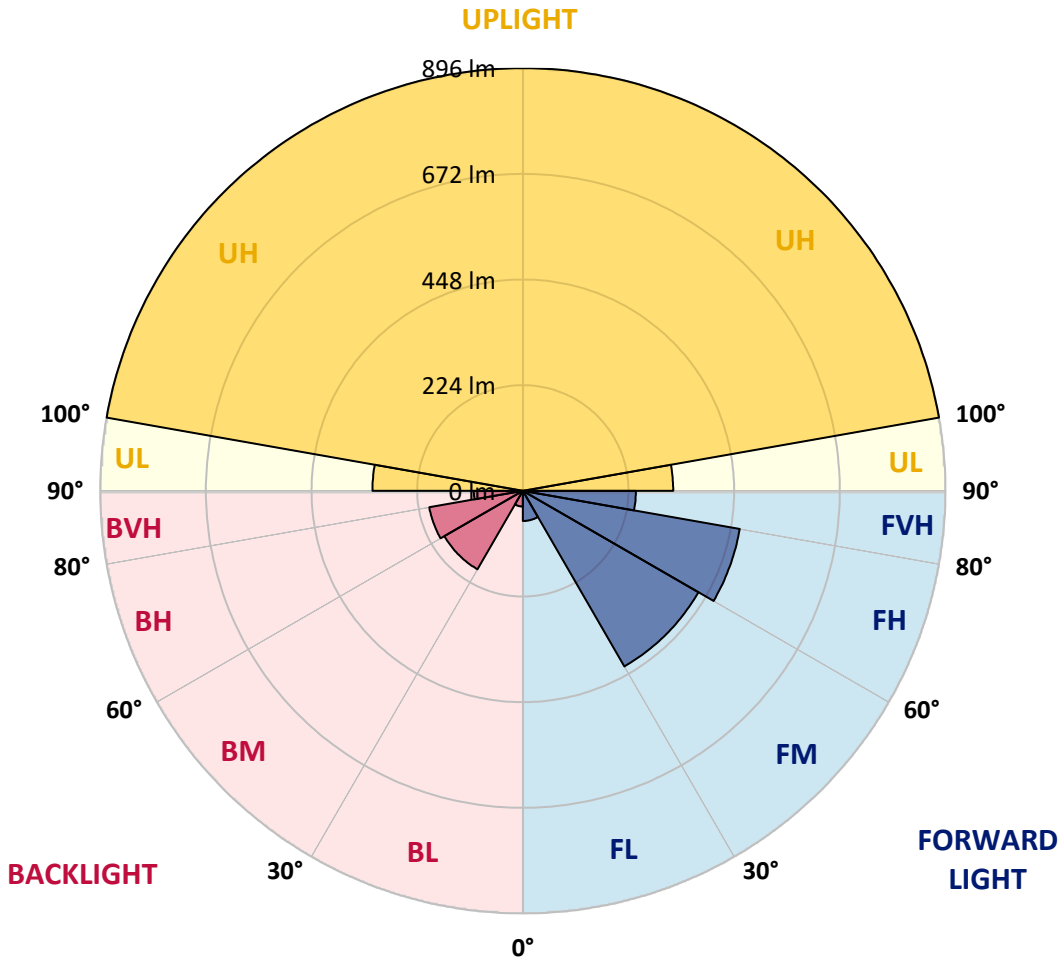
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	64.0	2.2			
FM	(30°-60°)	429.9	14.6			
FH	(60°-80°)	466.9	15.9			G0/660
FVH	(80°-90°)	239.5	8.1			G3/500
BL	(0°-30°)	33.3	1.1	B0/110		
BM	(30°-60°)	192.0	6.5	B0/220		
BH	(60°-80°)	201.3	6.8	B1/500		G1/500
BVH	(80°-90°)	104.0	3.5			G2/225
UL	(90°-100°)	318.7	10.8		U3/500	
UH	(100°-180°)	895.8	30.4		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
2.5°	34.4	34.4	35.0	35.2	35.4	35.4	35.6	35.4	34.6	33.6	33.0
5°	46.9	46.5	46.3	46.5	46.5	45.7	44.5	42.3	40.7	38.2	37.2
7.5°	62.8	62.4	61.8	61.2	61.2	59.2	57.2	55.4	52.7	49.1	47.9
10°	81.3	80.5	79.7	78.5	77.1	75.3	72.7	69.8	66.0	62.2	59.8
12.5°	99.4	99.2	98.8	97.0	94.4	92.8	90.0	85.8	81.1	75.9	73.9
15°	120.2	119.2	118.6	117.2	115.7	112.5	107.9	103.9	98.4	91.2	88.8
17.5°	139.5	139.1	137.9	137.5	134.9	131.6	126.4	120.4	113.7	107.1	103.5
20°	160.6	161.6	160.2	159.0	154.4	151.0	146.3	140.5	132.3	123.0	119.2
22.5°	184.0	185.0	182.8	182.8	179.0	173.5	166.7	160.0	149.8	140.1	135.3
25°	211.2	211.6	208.3	206.9	204.1	198.5	190.4	182.4	170.7	158.4	152.8
27.5°	237.1	237.9	235.9	234.1	229.5	224.2	215.2	205.9	192.6	177.9	171.7
30°	266.3	264.7	263.9	260.7	256.0	250.4	240.5	230.1	214.8	197.5	190.0
32.5°	292.1	290.9	291.5	288.9	282.0	275.8	266.5	254.0	236.1	218.0	209.5
35°	318.8	319.3	318.6	315.8	311.6	303.5	290.7	276.6	258.7	237.5	228.3
37.5°	346.0	344.6	343.6	341.2	337.0	327.9	315.4	299.5	278.8	256.4	246.2
40°	369.4	370.4	369.2	365.3	361.5	351.3	337.6	319.5	298.3	274.2	262.5
42.5°	391.7	391.3	390.3	388.1	382.9	372.2	358.7	340.2	316.2	289.5	277.2
45°	409.6	410.0	410.0	406.8	402.0	392.3	376.8	357.9	332.3	304.2	291.3
47.5°	426.7	427.3	426.9	425.5	420.3	408.8	393.1	373.6	346.4	317.6	303.1
50°	441.8	441.8	441.6	440.4	435.4	424.3	408.2	387.3	359.1	328.7	314.4
52.5°	454.3	454.1	454.3	452.9	447.7	437.6	420.9	398.6	370.4	338.0	324.1
55°	464.2	463.6	465.0	464.4	459.8	448.5	430.8	409.2	380.0	347.0	332.3
57.5°	472.2	472.0	473.8	473.2	468.6	457.3	439.8	417.7	387.9	354.3	338.2
60°	478.7	478.3	480.7	480.7	476.1	464.8	447.5	424.3	394.3	360.1	343.8
62.5°	483.3	483.5	485.7	486.5	482.5	471.0	452.9	430.0	399.4	364.7	348.2
65°	486.5	486.9	489.5	491.0	487.1	475.7	457.1	434.2	403.6	368.4	351.5
67.5°	488.5	488.7	492.2	493.8	490.6	478.7	460.6	437.2	406.4	370.8	354.1
70°	489.3	489.5	493.4	495.8	492.6	480.5	462.2	438.8	408.2	372.4	355.5
72.5°	488.7	489.1	493.2	496.4	493.2	481.3	462.8	439.6	408.6	374.2	355.9
75°	486.7	487.1	491.8	495.0	492.6	480.3	461.8	438.8	408.0	372.6	355.3
77.5°	483.3	483.9	488.9	492.8	490.1	478.3	459.8	436.6	405.8	370.6	353.1
80°	478.3	478.5	484.1	488.1	486.1	474.4	455.9	432.8	402.2	367.2	350.2
82.5°	472.0	472.8	478.1	482.5	480.7	468.6	450.7	428.0	397.6	363.1	345.8
85°	465.2	466.0	471.0	475.7	473.6	462.2	444.3	421.9	391.5	357.3	340.8
87.5°	457.1	457.7	462.4	467.4	465.4	454.1	436.8	414.7	385.1	351.9	335.0
90°	448.1	448.7	453.3	458.1	455.5	444.7	427.9	406.2	377.4	344.8	328.5
92.5°	438.6	438.8	443.9	446.5	445.1	435.6	418.9	398.0	369.2	337.4	322.1
95°	427.9	427.9	432.8	435.6	433.2	424.3	408.6	387.7	359.7	329.9	314.2
97.5°	416.1	416.5	420.3	423.1	422.3	412.9	398.0	378.2	351.3	321.7	306.8
100°	404.0	404.0	407.4	409.8	408.0	400.4	386.3	368.0	340.8	313.0	298.5
102.5°	391.3	391.1	393.9	395.7	394.5	387.5	374.4	356.3	330.9	303.8	290.1
105°	377.2	376.6	379.4	381.3	380.2	374.0	362.9	345.4	320.7	294.9	281.8
107.5°	362.1	363.1	364.7	365.8	364.9	359.5	349.0	333.5	310.2	285.6	272.8
110°	347.8	348.4	348.6	350.0	349.8	345.4	336.4	320.9	298.9	275.6	263.3

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Scaled Data Report

REPORT NUMBER: P1223895
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	333.3	333.1	333.3	*334.3*	334.3	329.9	321.3	307.8	287.8	265.1	253.8
115°	317.6	316.8	317.0	*317.2*	318.0	314.6	307.2	294.5	274.8	254.8	243.6
117.5°	301.3	301.1	300.7	*300.1*	300.1	298.7	292.3	281.0	262.3	242.4	233.1
120°	285.8	285.0	284.0	*283.4*	283.8	282.2	277.0	265.7	249.2	231.3	222.0
122.5°	267.9	268.5	267.9	*267.1*	267.3	265.7	261.3	251.8	235.3	218.2	209.9
125°	252.6	252.4	251.6	*250.4*	250.4	249.8	245.0	236.7	222.0	205.7	197.9
127.5°	235.5	235.7	234.9	*234.3*	234.7	233.5	230.3	220.8	207.9	193.4	185.8
130°	219.4	219.2	219.0	*217.8*	218.8	216.6	213.8	205.9	193.6	181.2	174.3
132.5°	204.3	203.1	202.3	*202.1*	201.9	201.7	198.3	191.4	181.0	168.7	162.0
135°	189.2	188.2	187.2	*186.8*	187.2	186.2	183.2	177.5	167.9	156.0	150.8
137.5°	173.7	173.3	173.3	*172.3*	172.3	171.5	168.9	164.1	155.2	144.9	139.7
140°	159.8	159.0	158.6	*158.0*	158.6	157.8	155.0	150.4	142.9	133.9	129.0
142.5°	145.5	144.7	145.3	*144.7*	144.1	143.7	141.3	137.7	131.2	123.0	118.8
145°	132.2	132.2	131.8	*132.0*	131.6	131.2	128.8	125.4	119.8	112.3	109.3
147.5°	119.6	120.0	119.6	*120.0*	120.0	118.4	116.8	114.1	108.9	102.9	99.8
150°	107.9	108.5	108.1	*107.9*	108.1	107.3	105.1	103.5	99.0	93.8	90.6
152.5°	98.0	98.4	98.4	*98.0*	97.8	97.4	95.2	93.0	89.4	85.5	83.3
155°	88.6	88.6	88.8	*89.0*	88.4	87.2	86.4	84.7	81.5	77.9	75.7
157.5°	80.9	80.7	80.9	*80.7*	80.5	79.3	78.1	76.7	74.1	70.9	69.8
160°	73.5	73.5	73.7	*73.5*	72.7	72.1	71.1	70.0	67.8	65.6	64.0
162.5°	67.6	67.6	67.6	*67.4*	66.6	66.4	65.2	64.0	62.2	60.4	59.2
165°	62.4	62.4	62.2	*62.2*	61.8	61.2	60.2	59.2	57.6	56.2	55.4
167.5°	58.2	58.0	57.8	*57.6*	57.4	56.8	55.8	55.2	54.1	52.9	52.3
170°	54.6	54.6	54.5	*54.5*	54.1	53.5	52.9	52.1	51.3	50.1	49.7
172.5°	51.5	51.5	51.5	*51.5*	50.9	50.7	50.1	49.5	48.9	48.1	47.7
175°	49.1	49.1	49.1	*49.1*	48.7	48.3	48.1	47.5	47.1	46.5	46.3
177.5°	47.3	47.3	47.3	*47.3*	47.1	46.7	46.5	46.1	45.7	45.5	45.3
180°	45.7	45.7	45.7	*45.7*	45.7	45.7	45.7	45.7	45.7	45.7	45.7

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REPORT NUMBER: P1223895
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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
2.5°	32.4	31.2	29.6	27.8	26.4	24.6	22.9	21.9	21.3	20.9
5°	36.2	33.6	31.2	28.6	26.6	24.8	22.9	21.3	20.5	20.3
7.5°	46.1	42.5	38.9	35.8	33.0	30.2	28.2	26.6	25.6	25.6
10°	58.0	53.1	48.9	44.7	40.9	37.6	34.8	33.2	32.0	31.6
12.5°	71.5	65.6	59.8	55.0	49.5	45.7	42.3	40.1	38.8	38.6
15°	85.6	79.5	72.1	65.6	59.4	53.5	49.5	46.3	45.1	45.1
17.5°	99.2	91.2	83.1	75.1	67.6	60.6	55.0	51.5	49.7	49.3
20°	113.7	104.1	93.6	84.3	74.9	66.8	60.2	55.6	53.3	53.1
22.5°	128.6	117.4	106.1	93.8	83.1	73.3	65.6	60.2	57.2	56.8
25°	145.7	132.2	118.6	105.1	92.2	80.7	71.5	65.0	61.6	61.2
27.5°	164.5	147.7	131.6	116.1	101.0	88.2	77.3	69.8	65.6	65.4
30°	181.8	163.2	144.9	127.0	110.5	95.2	83.1	74.3	69.8	69.2
32.5°	199.1	178.5	157.8	138.1	119.0	102.5	88.8	78.7	73.3	72.9
35°	217.0	193.6	171.1	148.4	128.6	109.9	94.2	83.1	77.3	76.5
37.5°	233.7	208.5	183.8	159.8	136.9	116.7	99.4	87.2	80.7	79.7
40°	249.0	221.8	195.3	169.5	144.9	123.0	104.3	90.8	83.5	82.7
42.5°	263.1	234.3	205.9	178.1	152.2	128.6	108.5	93.8	85.6	84.9
45°	276.4	246.0	215.6	186.0	158.6	133.7	112.5	96.6	87.8	86.6
47.5°	287.8	256.0	223.4	192.8	164.3	138.1	115.5	98.6	89.4	88.2
50°	297.9	264.3	230.7	199.3	169.3	142.1	118.2	100.2	90.2	89.0
52.5°	306.0	272.1	237.1	204.5	173.9	145.3	120.2	101.5	91.0	89.8
55°	314.0	278.4	242.6	209.1	177.3	148.2	121.8	102.3	91.4	90.0
57.5°	320.5	283.8	247.2	212.6	180.6	150.2	123.2	102.7	91.4	89.8
60°	325.3	287.9	250.8	215.6	182.8	152.0	124.2	102.9	91.2	89.6
62.5°	329.5	291.3	253.4	218.2	185.0	153.4	125.2	103.1	90.8	89.2
65°	332.7	294.1	255.6	219.8	186.4	154.6	125.4	102.9	90.2	88.6
67.5°	335.2	295.9	256.9	221.2	187.4	155.2	125.8	102.7	89.8	88.0
70°	336.2	296.7	257.7	221.8	188.0	155.6	125.8	102.3	89.0	87.2
72.5°	*336.0*	*296.7*	*257.9*	*222.0*	*188.2*	*155.8*	*125.6*	*101.7*	*88.4*	*86.6*
75°	335.4	296.1	257.5	221.8	188.0	155.6	125.4	101.3	87.8	86.2
77.5°	333.9	294.5	256.2	221.0	187.6	155.0	124.8	101.0	87.4	85.5
80°	331.1	292.1	254.2	219.2	186.2	154.4	124.2	100.2	86.6	85.1
82.5°	327.1	289.1	251.8	217.6	185.0	153.2	123.4	99.8	86.2	84.7
85°	322.5	285.4	248.6	215.2	183.2	152.0	122.4	99.0	85.8	84.3
87.5°	317.0	280.4	245.4	212.4	181.0	150.4	121.4	98.4	85.6	84.1
90°	311.2	275.8	241.4	209.9	179.2	148.8	120.4	98.0	85.5	84.1
92.5°	304.8	270.9	237.7	206.5	176.9	147.3	119.4	97.6	85.5	84.1
95°	298.5	265.7	233.9	203.5	174.5	145.7	118.4	97.4	85.8	84.5
97.5°	290.9	259.7	229.3	200.3	171.7	143.9	117.6	97.2	86.0	84.9
100°	283.8	253.8	224.6	196.7	169.1	141.9	116.5	97.0	86.4	85.1
102.5°	276.0	248.0	219.8	193.0	166.3	139.7	115.5	96.8	86.8	85.6
105°	268.3	241.1	214.6	188.6	163.0	137.5	114.3	96.6	87.0	85.8
107.5°	259.7	234.5	208.9	184.4	159.6	135.1	112.7	96.2	87.2	86.0
110°	251.0	226.7	202.9	179.6	155.6	132.2	111.1	95.2	87.0	86.0

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

Scaled Data Report

REPORT NUMBER: P1223895
CATALOG NUMBER: FFX-CLB-20-727-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	242.6	219.4	196.3	174.3	151.4	129.2	108.9	94.2	86.4	85.6
115°	232.3	211.0	189.4	168.5	146.7	125.4	106.5	92.8	85.6	84.7
117.5°	222.8	202.3	182.0	162.4	141.7	121.6	103.7	91.0	84.3	83.5
120°	212.0	193.0	174.1	155.4	136.1	117.2	100.4	88.8	82.5	81.9
122.5°	201.5	183.8	165.9	148.2	130.2	112.3	97.0	86.0	80.5	79.9
125°	190.4	174.1	157.4	140.7	123.6	107.1	93.0	82.9	77.9	77.3
127.5°	179.0	163.9	148.2	132.7	117.2	101.9	88.8	79.7	74.9	74.7
130°	167.1	153.6	139.3	125.0	110.7	96.6	84.5	76.3	71.9	71.5
132.5°	156.4	143.9	130.6	117.0	103.5	91.2	80.3	72.7	69.0	68.6
135°	145.9	133.3	121.8	109.9	97.4	85.8	76.1	69.4	66.0	65.6
137.5°	135.1	124.2	113.5	102.3	91.0	80.7	72.1	66.2	63.2	62.8
140°	124.4	115.3	105.5	95.0	85.3	75.9	68.2	63.2	60.4	60.0
142.5°	114.7	105.9	97.2	88.0	79.3	71.3	64.6	59.8	57.4	57.2
145°	105.1	97.6	89.6	81.5	73.9	67.4	61.2	57.2	55.2	55.0
147.5°	96.6	89.8	82.7	75.7	69.2	63.0	58.0	54.6	52.7	52.5
150°	88.0	82.1	76.1	70.1	64.6	59.4	55.0	52.3	50.9	50.5
152.5°	80.5	75.7	70.3	65.4	60.4	56.0	52.7	50.1	48.9	48.7
155°	73.7	69.8	65.4	61.0	57.0	53.5	50.5	48.5	47.5	47.5
157.5°	68.0	64.6	61.0	57.4	54.3	51.3	48.9	47.3	46.5	46.3
160°	62.8	59.8	57.0	54.5	51.5	49.3	47.5	46.1	45.5	45.3
162.5°	58.0	56.0	53.9	51.7	49.5	47.7	46.3	45.3	44.9	44.9
165°	54.6	52.9	51.1	49.5	47.9	46.7	45.5	44.9	44.5	44.3
167.5°	51.7	50.3	49.1	47.9	46.7	45.7	44.9	44.5	44.1	44.1
170°	49.3	48.3	47.5	46.7	45.9	45.1	44.7	44.3	44.1	44.1
172.5°	47.3	46.7	46.1	45.7	45.1	44.7	44.3	44.1	44.1	44.1
175°	46.1	45.7	45.3	45.1	44.9	44.7	44.5	44.3	44.3	44.3
177.5°	45.3	45.1	45.1	44.9	44.9	44.9	44.9	44.9	44.9	44.9
180°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

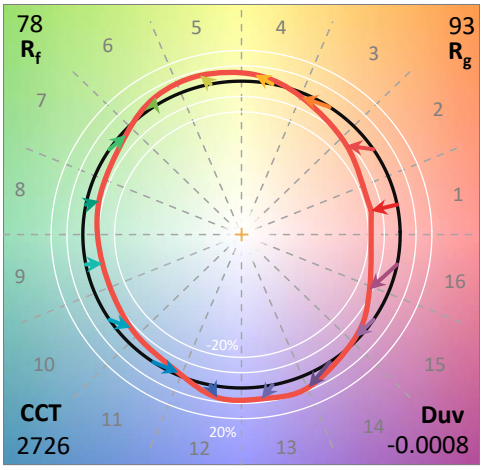
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

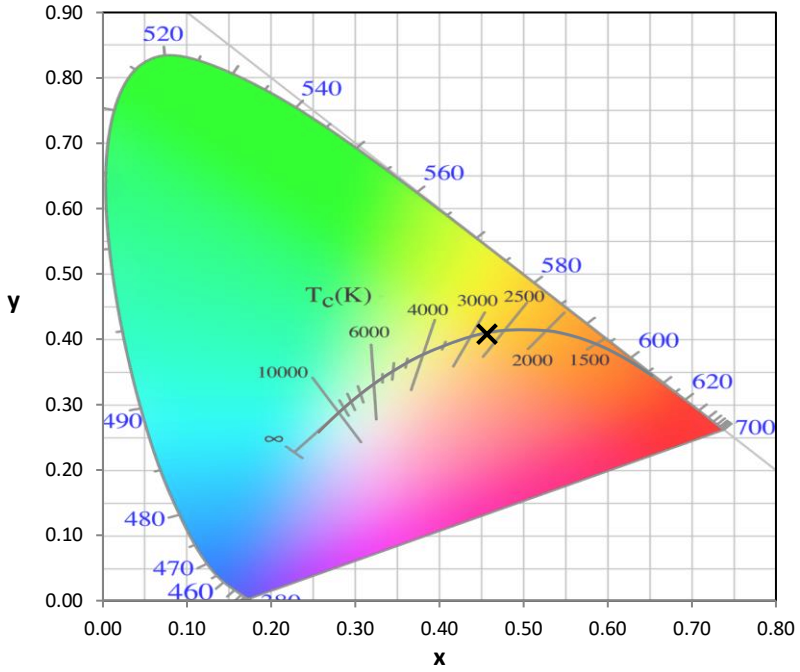
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

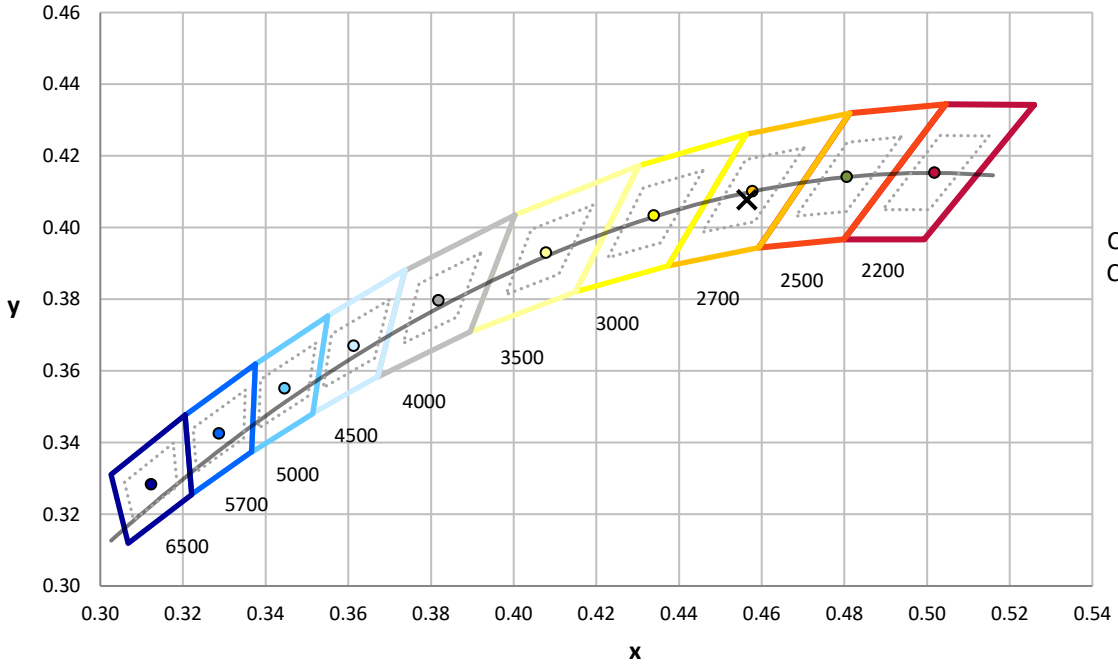
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

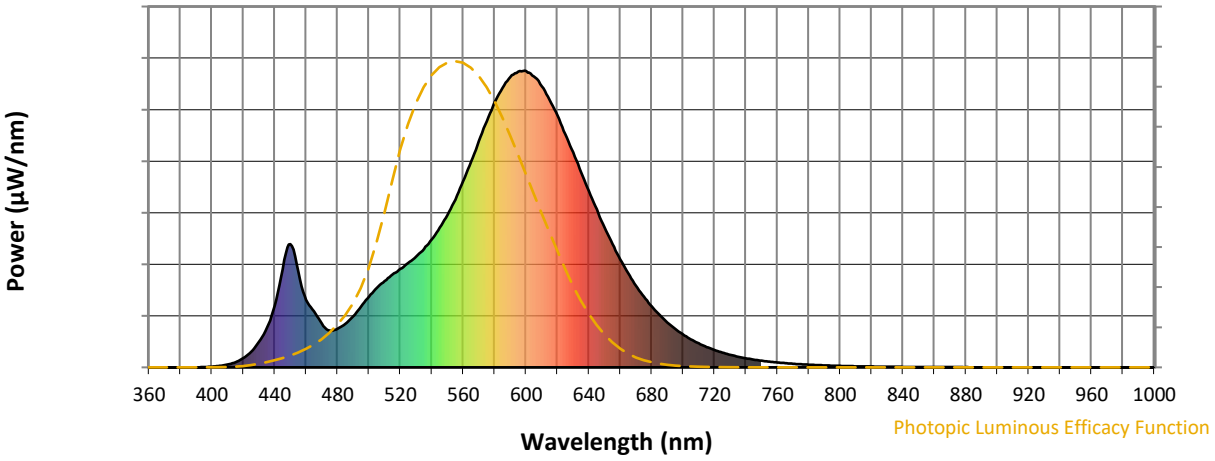


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

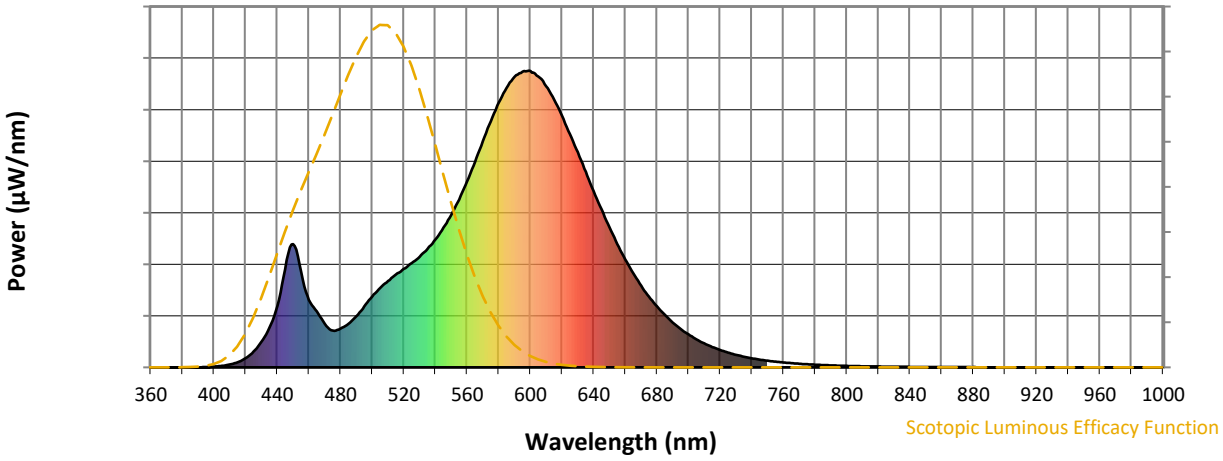


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

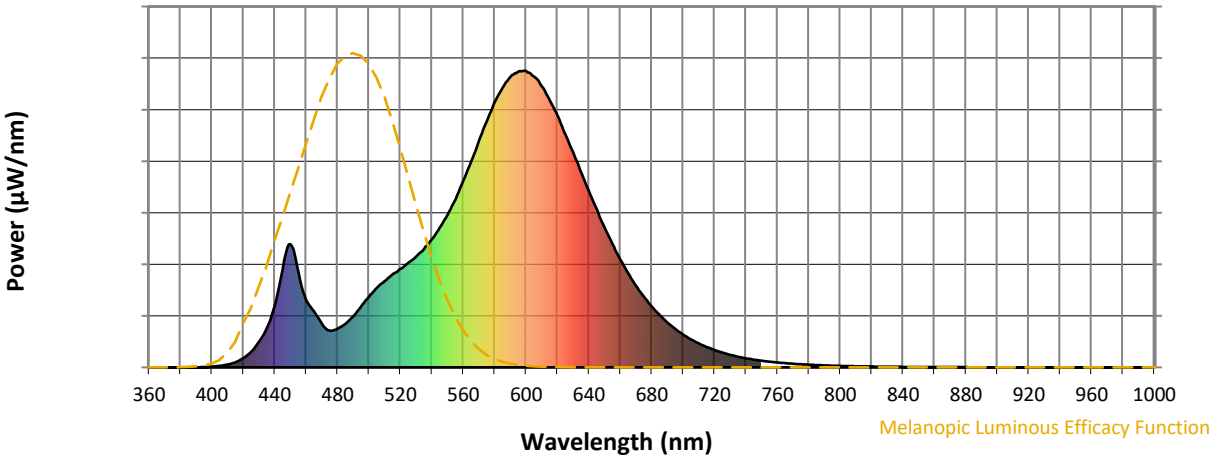


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

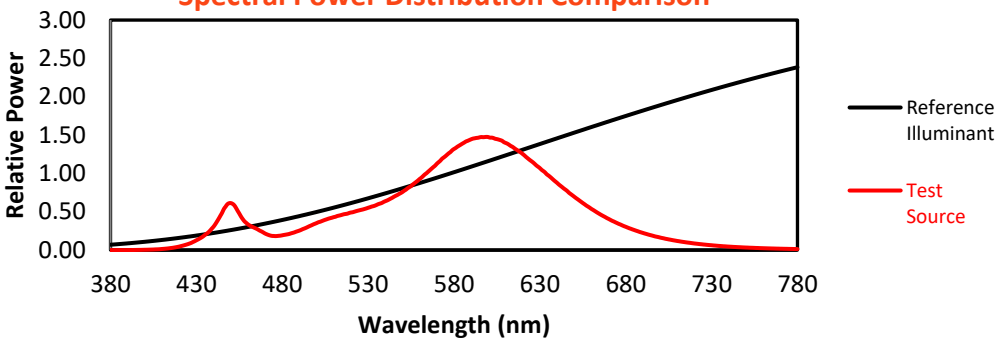
REPORT NUMBER: SP1-2501-332-3

TM-30-18

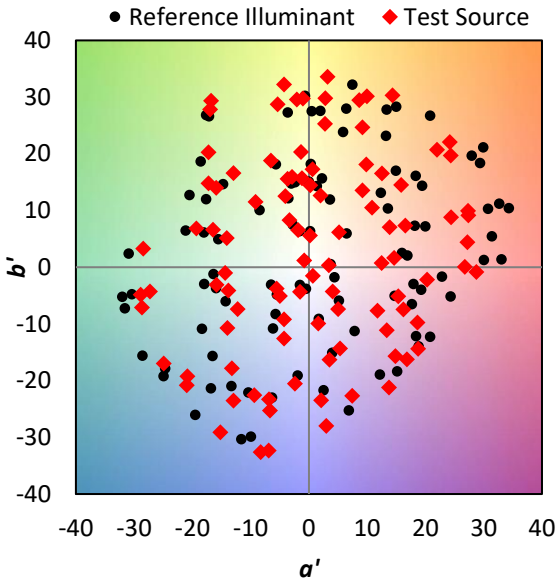
Summary

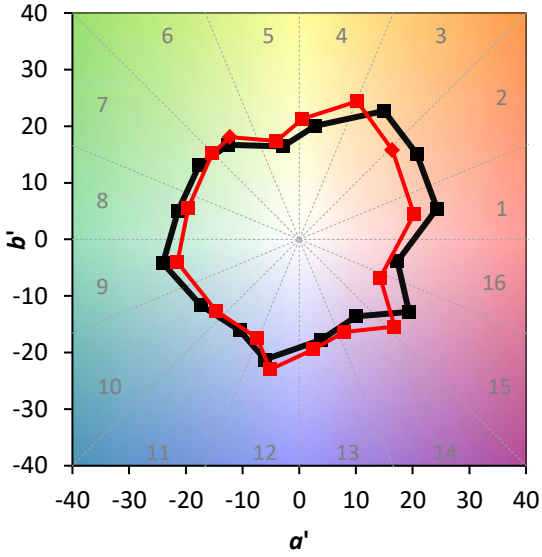
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

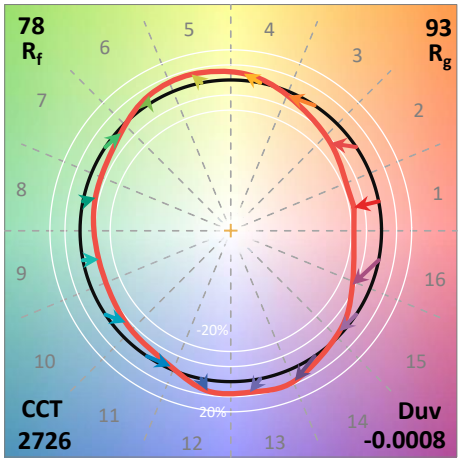
Spectral Power Distribution Comparison

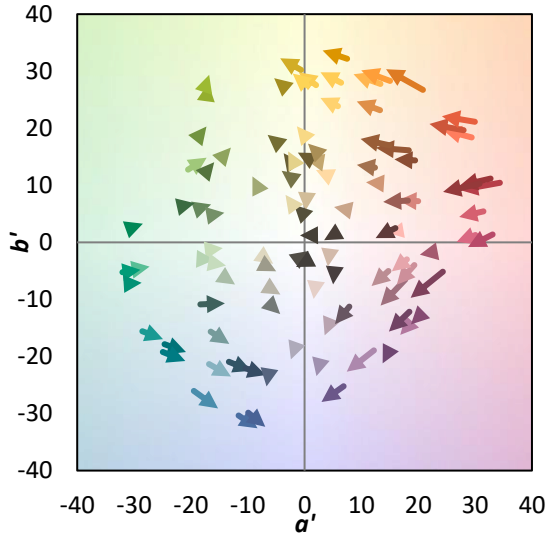


Color Vector Graphics







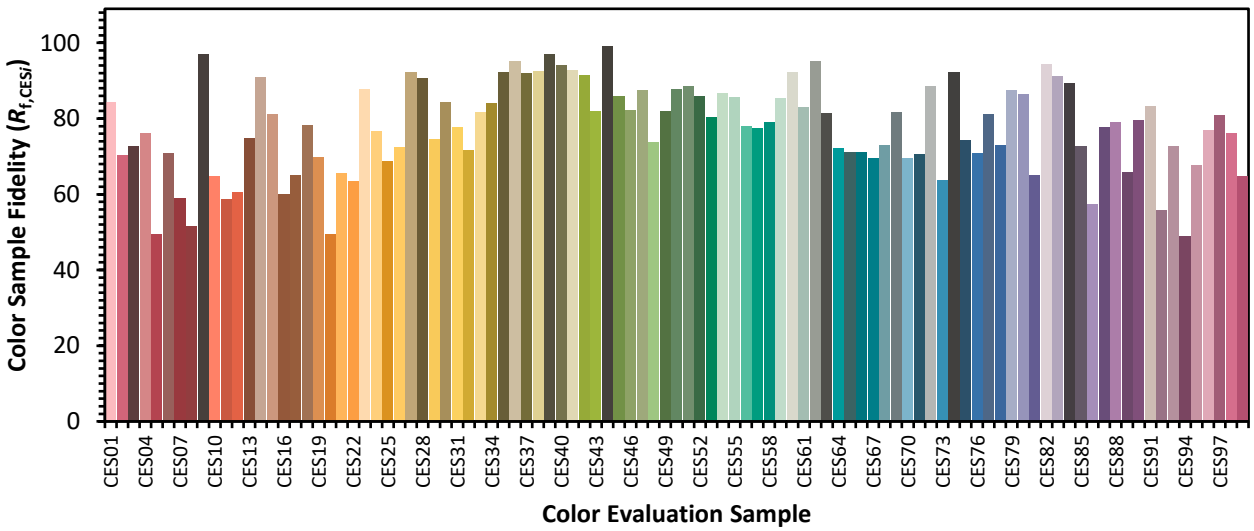


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Individual Sample Fidelity Index ($R_{f,i}$)

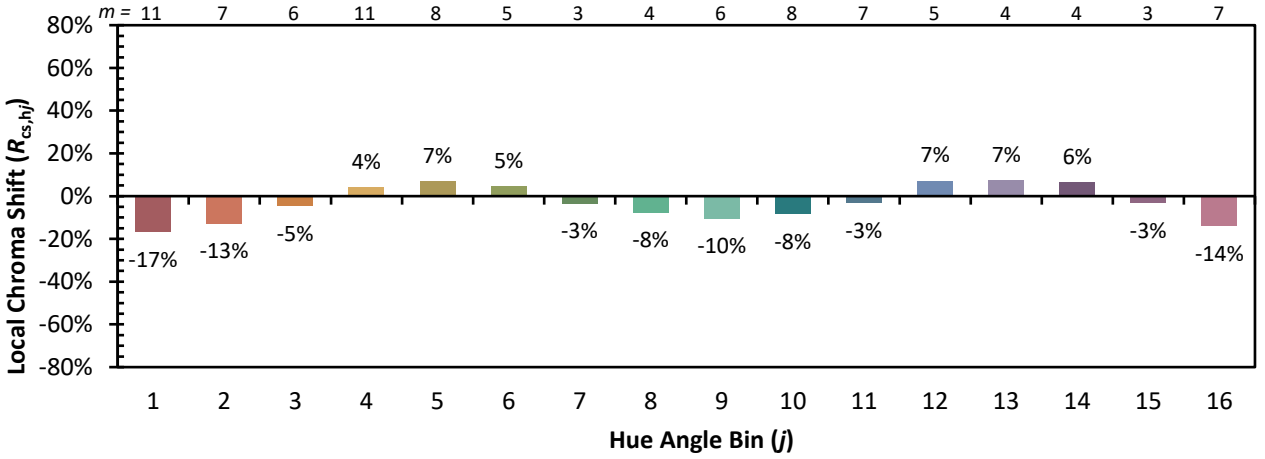
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

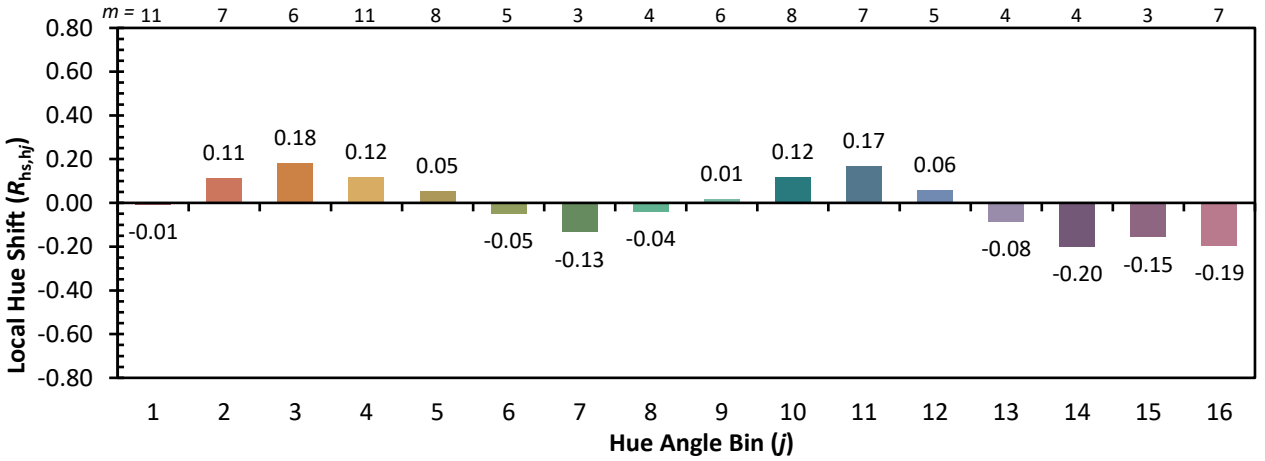


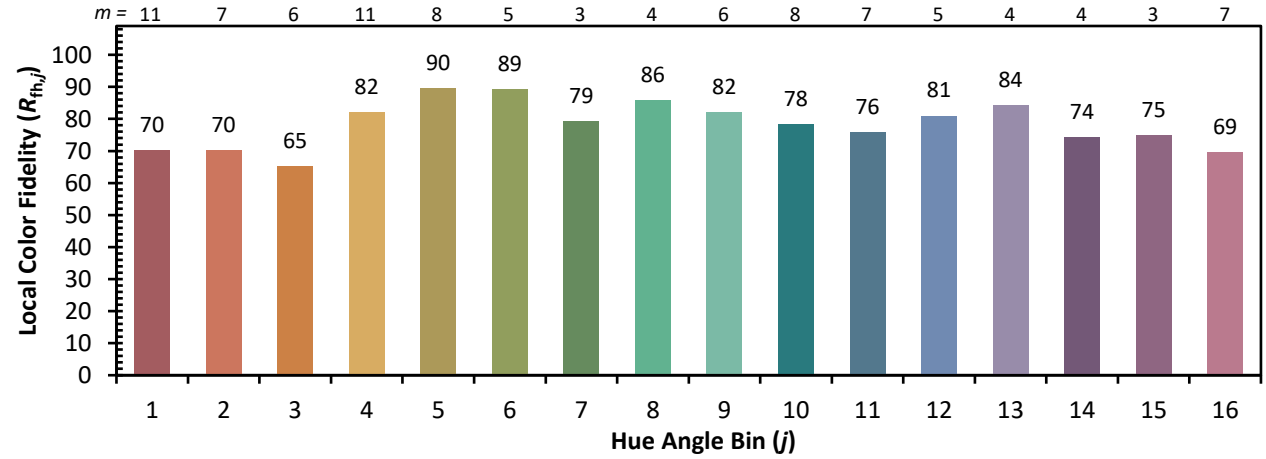
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



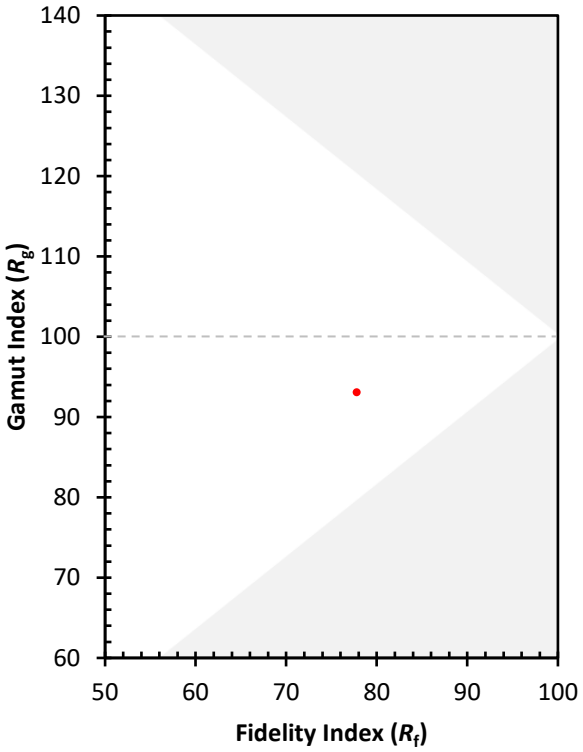


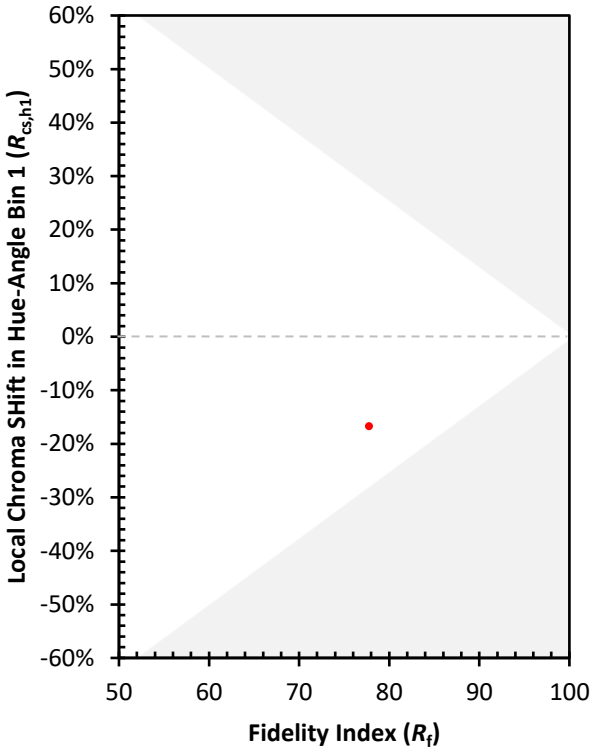


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TM-30-18

Measure Comparisons





(END OF REPORT)