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: P1045847

Luminaire Tested: **FFX-CLB-30-730-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:	P1045847
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-730-U-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3330.8 lumens
Efficiency:	N/A
Efficacy:	108.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G3

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

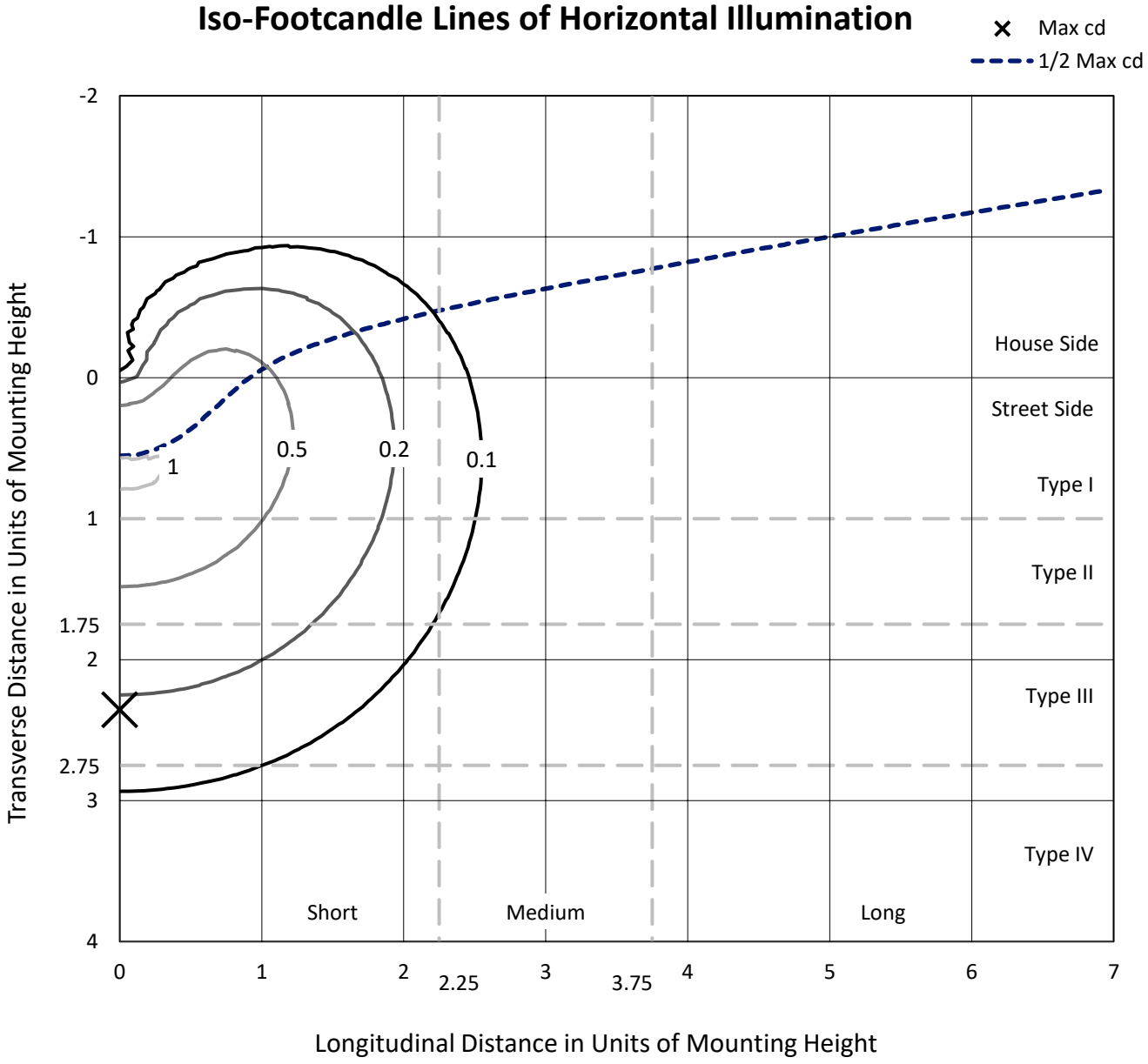


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Iso-Footcandle Lines of Horizontal Illumination



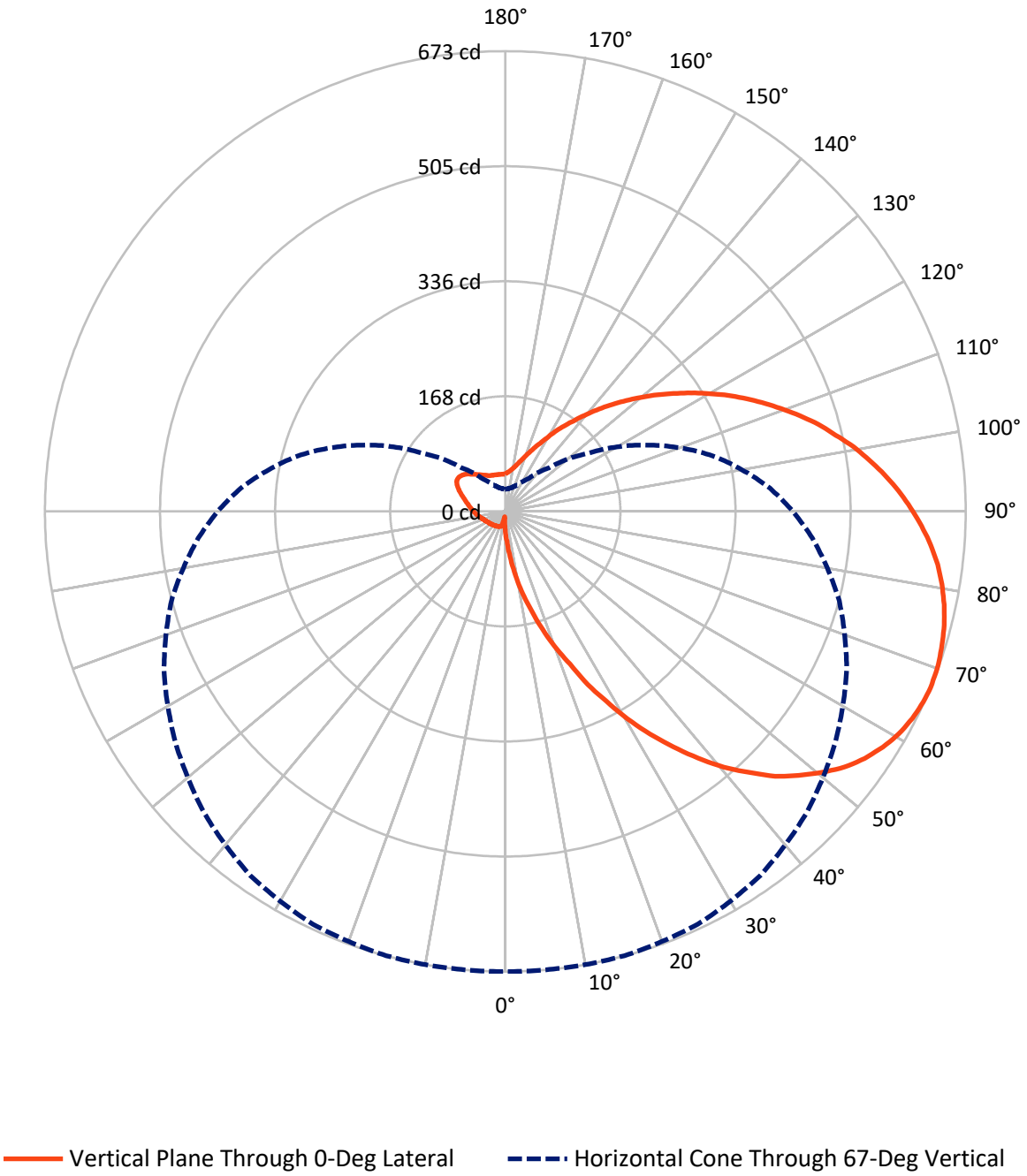
Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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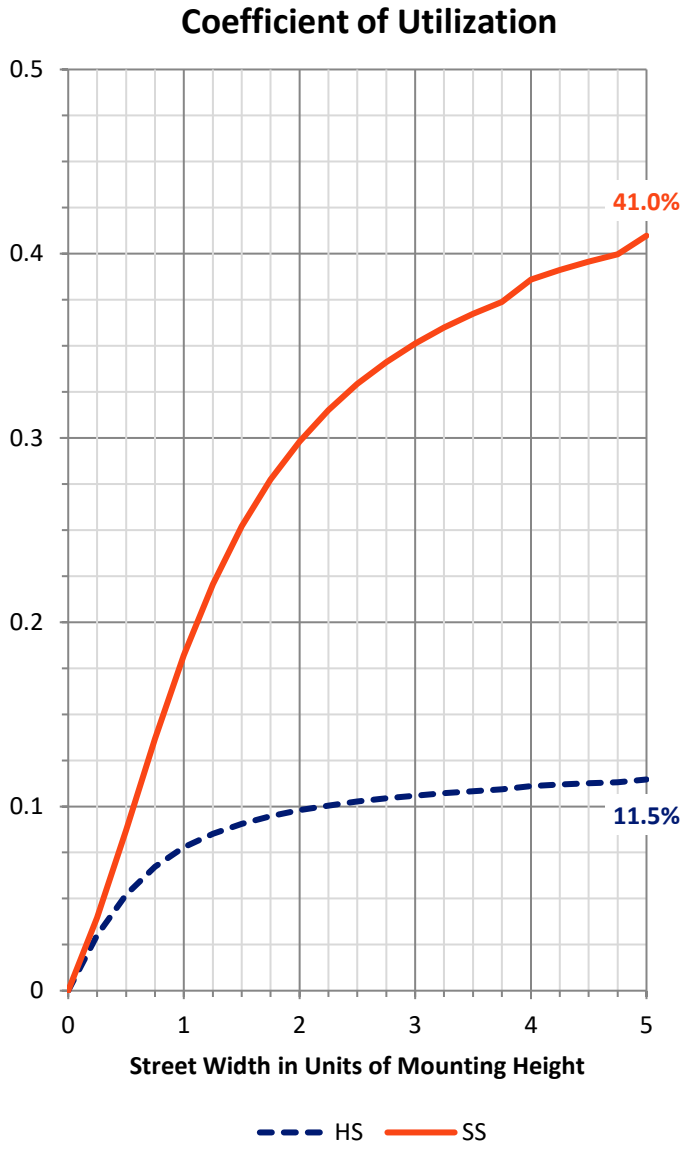
REPORT NUMBER: P1045847
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	412.5	393.0	805.4
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	1555.2	970.1	2525.4
	% Fixture	46.7	29.1	75.8
Total	Lumens	1967.7	1363.1	3330.8
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	27.7	0.8
20°-30°	77.3	2.3
30°-40°	154.6	4.6
40°-50°	243.0	7.3
50°-60°	319.5	9.6
60°-70°	368.9	11.1
70°-80°	389.3	11.7
80°-90°	382.9	11.5
90°-100°	351.4	10.6
100°-110°	304.0	9.1
110°-120°	249.5	7.5
120°-130°	190.2	5.7
130°-140°	128.1	3.8
140°-150°	75.9	2.3
150°-160°	39.9	1.2
160°-170°	18.6	0.6
170°-180°	5.4	0.2
0°-90°	1967.7	59.1
0°-180°	3330.8	100.0



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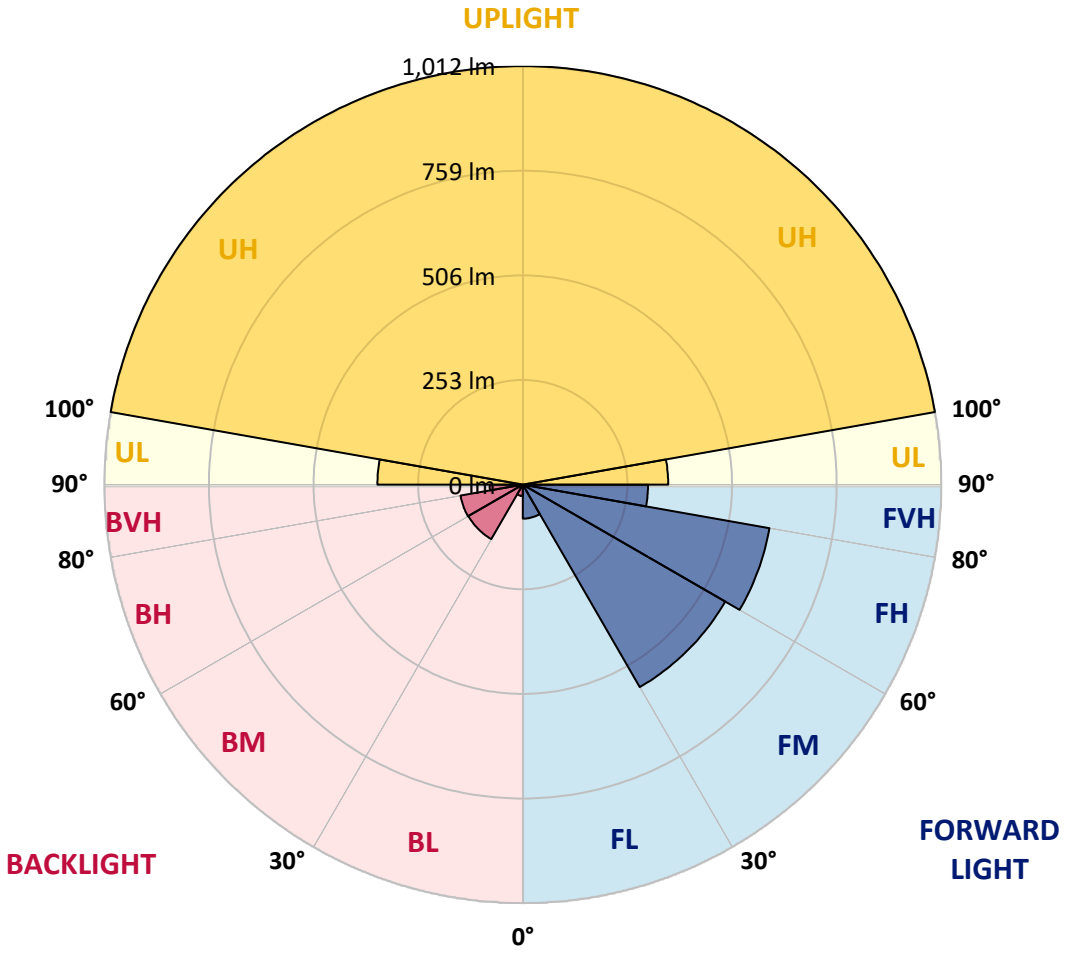
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	82.2	2.5			
FM	(30°-60°)	565.1	17.0			
FH	(60°-80°)	605.4	18.2			G0/660
FVH	(80°-90°)	302.6	9.1			G3/500
BL	(0°-30°)	27.2	0.8	B0/110		
BM	(30°-60°)	152.1	4.6	B0/220		
BH	(60°-80°)	152.9	4.6	B1/500		G1/500
BVH	(80°-90°)	80.3	2.4			G1/100
UL	(90°-100°)	351.4	10.6		U3/500	
UH	(100°-180°)	1011.6	30.4		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
2.5°	43.0	43.7	43.7	43.4	43.0	42.3	41.5	40.1	37.2	35.0	32.8
5°	62.3	62.3	62.7	62.3	60.9	59.4	56.1	53.6	48.8	45.2	41.2
7.5°	84.5	85.6	85.3	84.2	81.6	78.3	74.3	69.6	64.9	59.4	53.2
10°	109.3	109.0	109.0	107.5	104.6	100.2	95.8	90.4	83.5	76.5	68.5
12.5°	132.6	133.7	133.0	131.2	127.5	124.3	118.8	112.6	104.6	97.3	86.4
15°	157.8	158.5	158.5	157.4	154.1	149.4	143.2	137.4	126.8	116.6	106.0
17.5°	186.6	185.5	184.0	184.0	180.0	176.0	169.8	161.8	150.1	138.8	124.6
20°	215.4	215.0	213.2	212.1	209.5	203.7	195.7	186.6	174.9	162.2	145.4
22.5°	242.3	246.0	245.6	243.8	240.5	234.7	225.9	215.0	203.0	186.9	167.6
25°	280.6	278.4	278.8	277.0	274.0	267.1	258.4	245.6	231.0	213.2	191.3
27.5°	313.8	313.0	313.0	311.9	307.9	300.6	290.4	278.4	261.7	240.5	216.1
30°	352.0	350.2	349.5	348.4	344.4	336.4	325.8	310.8	292.6	271.1	242.3
32.5°	388.1	386.6	384.1	383.7	380.8	372.4	360.4	345.1	324.3	299.2	267.5
35°	422.7	423.5	422.4	420.5	416.5	408.5	396.9	378.3	357.9	328.7	294.5
37.5°	457.7	457.3	458.1	456.6	450.4	442.8	428.9	409.2	385.9	354.2	318.1
40°	492.0	490.1	489.8	488.3	483.9	476.3	460.6	440.6	414.3	381.5	340.7
42.5°	521.5	522.2	521.5	520.0	514.2	505.4	489.0	466.8	439.1	403.8	361.9
45°	552.5	551.4	551.0	551.0	543.3	534.2	516.4	493.4	462.4	424.5	380.1
47.5°	576.9	578.3	577.6	575.8	570.7	559.4	540.4	515.3	482.9	443.9	396.5
50°	599.8	601.7	602.0	600.2	594.0	581.6	561.9	533.9	501.1	459.9	410.7
52.5°	621.0	620.6	621.7	620.6	614.8	602.0	579.4	551.0	515.7	473.4	421.6
55°	637.4	637.4	638.1	636.6	631.2	617.0	593.6	563.4	527.3	483.9	431.1
57.5°	650.5	651.2	650.9	650.5	644.3	629.4	604.6	573.2	536.8	491.6	438.0
60°	660.7	661.1	661.1	660.3	654.1	638.5	613.3	580.9	543.0	498.2	443.5
62.5°	667.2	667.6	667.6	666.9	660.7	644.7	619.1	585.6	547.4	502.2	447.1
65°	671.3	671.6	671.6	670.9	664.7	648.3	622.1	588.2	549.5	504.4	449.3
67°	672.7	672.7	672.7	672.4	665.8	649.8	622.8	588.5	550.3	505.1	450.4
67.5°	672.4	672.4	672.7	672.0	665.8	649.4	622.4	588.5	549.9	505.1	450.4
70°	671.3	671.3	671.3	670.5	664.3	647.9	621.0	586.7	548.8	504.4	450.1
72.5°	667.2	667.6	667.6	666.9	660.7	644.7	617.7	583.4	545.9	502.2	449.0
75°	662.5	662.5	662.5	661.8	655.6	639.6	613.0	579.1	542.3	499.3	446.8
77.5°	655.6	655.6	655.6	654.9	648.7	633.0	606.8	573.6	537.5	495.2	444.2
80°	646.8	647.2	646.8	646.1	639.9	624.2	599.1	566.7	531.3	490.5	440.6
82.5°	636.6	637.0	636.6	635.2	629.4	614.4	589.3	557.6	524.0	484.3	436.2
85°	623.5	623.2	623.5	621.3	616.2	601.3	578.3	547.4	514.9	477.0	430.0
87.5°	608.6	608.9	608.2	607.1	600.9	586.3	564.5	535.7	504.4	468.3	422.7
90°	592.2	592.2	591.8	590.4	583.8	570.7	549.9	522.2	493.1	458.4	415.1
92.5°	575.4	575.1	574.0	573.2	567.4	553.9	533.9	509.1	481.8	448.6	407.1
95°	556.8	556.8	556.1	554.6	548.1	537.2	517.8	494.5	468.6	438.0	398.7
97.5°	537.2	536.8	536.4	534.2	528.4	517.5	501.8	479.2	455.5	426.7	389.2
100°	517.8	516.7	516.0	513.8	508.7	498.2	483.2	463.5	440.6	414.3	379.0
102.5°	495.2	495.2	494.9	492.7	486.1	477.4	463.9	446.4	426.7	401.6	368.1
105°	475.2	473.4	472.7	470.5	465.4	455.9	444.6	429.3	411.1	387.7	357.1
107.5°	452.6	451.1	450.8	447.5	443.5	434.8	425.3	411.1	395.8	375.0	345.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*429.6*	428.9	428.6	425.3	420.2	414.3	404.5	393.2	379.7	360.8	335.3
112.5°	*407.1*	406.3	406.3	403.8	399.0	391.7	384.8	375.0	363.0	346.6	322.9
115°	*384.8*	383.7	383.4	380.5	375.7	370.2	363.3	356.4	346.2	332.3	310.8
117.5°	*362.6*	361.1	361.5	359.0	355.3	349.8	343.3	338.5	329.8	317.0	298.8
120°	*339.6*	340.0	340.0	336.7	333.4	329.1	323.6	318.9	313.0	301.7	285.0
122.5°	*317.8*	318.5	318.5	316.3	312.3	308.3	304.7	300.3	295.2	286.4	271.5
125°	*295.9*	297.4	296.6	294.8	291.5	287.2	284.6	281.0	277.0	269.7	256.6
127.5°	*275.9*	275.9	274.0	274.4	271.1	267.5	265.3	262.7	258.7	251.8	241.2
130°	*255.1*	255.5	255.8	253.6	250.7	247.8	245.6	244.5	241.2	235.4	224.8
132.5°	*236.1*	236.1	235.4	234.0	231.4	229.2	229.2	225.9	223.4	217.9	208.8
135°	*217.6*	217.2	217.2	215.7	213.9	212.8	210.3	208.8	206.3	201.2	194.2
137.5°	*199.3*	200.1	199.3	198.2	196.4	195.0	193.1	192.8	189.1	185.5	177.8
140°	*181.8*	182.9	181.8	181.5	180.0	178.2	177.1	175.6	174.6	169.8	163.3
142.5°	*165.4*	166.2	165.4	165.1	164.0	162.5	161.8	160.7	158.2	155.2	149.8
145°	*151.2*	150.9	150.9	150.5	149.0	148.0	146.9	146.1	144.7	141.8	135.6
147.5°	*137.4*	136.3	137.0	136.3	135.2	134.5	134.1	132.6	131.2	128.3	123.9
150°	*123.2*	123.9	123.5	123.2	122.1	122.1	121.0	119.9	118.8	115.5	112.6
152.5°	*111.5*	111.5	111.9	111.1	110.8	109.7	109.0	108.6	107.1	105.0	101.7
155°	*101.7*	101.3	101.3	101.3	100.6	99.5	99.1	98.4	97.7	95.1	92.2
157.5°	*92.2*	92.2	92.2	91.8	91.8	90.7	90.4	89.3	88.2	86.7	84.2
160°	*84.2*	84.2	83.8	83.8	83.5	83.1	82.4	81.3	80.5	79.4	77.3
162.5°	*77.6*	77.3	77.3	76.9	76.5	75.8	75.4	75.1	74.0	72.9	71.1
165°	*71.4*	71.4	71.4	71.1	70.7	70.3	70.0	69.2	68.5	67.8	66.7
167.5°	*66.7*	66.7	66.7	66.3	66.3	66.0	65.6	64.9	64.1	63.4	62.7
170°	*63.0*	63.0	63.0	62.7	62.3	62.0	61.6	61.2	60.9	60.1	59.8
172.5°	*60.1*	60.1	60.1	60.1	59.4	59.0	58.7	58.7	58.3	57.9	57.6
175°	*57.6*	57.6	57.6	57.6	57.2	56.8	56.5	56.5	56.1	55.8	55.4
177.5°	*56.1*	56.1	56.1	55.8	55.8	55.4	55.0	55.0	54.7	54.7	54.3
180°	*54.3*	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
2.5°	31.3	29.9	27.3	25.1	23.3	21.5	20.4	19.3	19.3	19.7	18.9
5°	37.9	35.3	30.6	25.5	21.1	17.5	14.6	12.0	9.8	8.7	8.7
7.5°	50.3	47.4	40.8	34.3	28.1	22.2	17.5	13.5	10.2	8.4	8.0
10°	64.5	61.2	52.1	44.1	36.4	29.2	23.0	17.5	13.8	12.0	11.7
12.5°	80.9	76.5	65.6	55.4	45.6	36.4	28.8	22.6	18.9	17.1	16.8
15°	99.9	92.9	80.5	67.8	55.0	43.7	34.6	27.7	23.7	21.1	21.1
17.5°	117.0	109.7	94.7	78.3	63.8	50.7	39.7	31.3	25.9	23.3	23.0
20°	136.7	126.8	109.0	90.0	72.2	56.1	43.0	33.5	27.0	23.7	23.7
22.5°	156.7	146.5	124.6	101.7	80.2	61.2	46.3	35.0	27.7	24.1	23.7
25°	180.4	166.5	140.3	114.4	89.3	66.7	49.2	36.4	28.4	24.8	24.1
27.5°	203.3	189.1	158.5	127.2	97.7	72.2	51.7	37.9	29.2	25.1	24.8
30°	227.4	209.9	175.3	140.3	106.4	76.9	54.3	39.0	29.5	25.5	24.8
32.5°	251.4	232.1	193.9	153.1	114.8	81.3	56.5	39.7	30.2	25.9	25.1
35°	275.9	255.1	211.7	165.8	122.4	85.3	57.9	40.5	30.6	25.9	25.5
37.5°	297.0	275.1	228.5	177.5	129.0	88.6	59.4	41.2	30.6	26.2	25.9
40°	318.1	294.5	243.1	187.3	134.8	91.1	60.5	41.5	31.0	26.6	26.2
42.5°	337.1	310.8	255.8	196.1	139.6	92.9	60.9	41.5	31.3	27.0	26.6
45°	354.2	327.6	267.8	204.4	143.6	94.0	61.2	41.9	31.7	27.3	27.0
47.5°	369.9	341.5	278.8	211.4	146.9	95.1	61.2	41.9	32.1	28.1	27.3
50°	383.0	353.1	287.9	217.2	149.0	95.5	60.9	41.9	32.4	28.4	28.1
52.5°	393.2	363.0	295.5	221.2	150.5	95.1	60.5	41.9	32.8	28.8	28.4
55°	402.0	371.0	301.0	224.5	150.9	94.4	60.1	41.9	33.2	29.5	29.2
57.5°	408.5	376.8	305.7	227.0	151.2	93.7	59.4	41.9	33.5	29.9	29.5
60°	413.6	381.9	309.4	228.5	150.9	92.6	59.0	41.9	33.9	30.6	30.2
62.5°	417.3	384.8	311.6	228.9	149.8	91.5	58.3	41.9	34.3	31.3	31.0
65°	419.4	387.0	313.4	229.2	148.7	90.4	57.9	42.3	35.0	32.4	32.1
67°	*420.2*	*388.1*	*313.8*	*229.2*	*148.0*	*89.6*	*57.9*	*42.6*	*35.7*	*32.8*	*32.4*
67.5°	420.5	388.1	313.8	228.9	147.6	89.6	57.9	42.6	35.7	33.2	32.8
70°	420.2	388.1	313.8	228.1	146.5	88.9	57.6	43.4	36.8	34.3	33.9
72.5°	419.4	387.4	313.0	227.0	145.0	88.2	57.9	44.1	37.9	35.3	35.0
75°	417.6	385.9	311.6	225.6	143.9	87.5	58.3	44.8	39.0	36.8	36.4
77.5°	415.8	384.1	310.5	224.1	142.9	87.5	58.7	45.9	40.5	38.3	37.9
80°	412.5	381.5	308.3	222.7	141.8	87.1	59.4	47.4	41.9	39.7	39.4
82.5°	408.5	377.9	305.4	220.5	140.7	87.1	60.5	48.5	43.4	41.2	40.8
85°	403.0	373.2	301.7	217.6	139.6	87.5	61.2	49.9	44.8	43.0	42.6
87.5°	396.9	367.3	297.4	215.0	138.5	87.5	62.3	51.4	46.3	44.5	44.5
90°	389.6	361.1	292.3	212.1	137.4	88.2	63.8	52.8	48.1	46.3	46.3
92.5°	383.0	354.6	288.3	209.2	136.7	88.9	65.2	54.7	49.9	48.1	48.1
95°	374.3	347.7	282.4	206.6	136.3	89.6	66.7	56.5	52.1	50.3	49.9
97.5°	365.9	340.0	277.3	203.7	135.9	91.1	68.5	58.7	53.9	52.1	52.1
100°	356.8	332.3	271.5	201.2	135.9	92.9	71.1	60.9	56.5	54.7	54.3
102.5°	348.0	324.0	265.7	198.6	136.7	94.7	73.6	63.4	59.0	57.2	56.8
105°	338.2	315.2	260.6	196.4	137.4	97.3	76.5	66.7	62.0	60.1	59.8
107.5°	328.3	307.2	254.7	194.6	138.8	100.6	80.2	70.0	65.2	63.0	62.7

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

Scaled Data Report

REPORT NUMBER: P1045847
CATALOG NUMBER: FFX-CLB-30-730-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	317.8	298.5	249.6	193.1	141.0	104.2	84.2	74.3	68.9	66.7	66.3
112.5°	307.9	289.7	244.2	192.0	143.2	108.6	88.9	78.3	73.2	70.3	70.0
115°	297.0	280.6	239.1	191.0	145.8	113.0	94.0	82.7	77.3	74.3	74.3
117.5°	286.4	271.1	233.2	189.9	148.3	117.7	98.8	87.5	81.3	78.3	78.0
120°	274.0	260.9	227.0	187.7	149.8	121.4	102.8	91.5	84.5	81.6	81.3
122.5°	261.7	249.6	219.0	184.4	150.1	123.5	105.7	94.7	87.5	84.2	83.8
125°	247.4	237.2	210.6	179.3	149.0	124.6	107.5	95.8	88.6	84.9	84.5
127.5°	233.6	223.8	200.8	173.1	146.1	123.5	107.1	95.8	88.6	84.5	84.2
130°	218.7	209.9	189.1	165.4	141.4	121.0	105.7	94.4	87.1	83.1	82.7
132.5°	203.3	196.1	177.8	157.1	135.6	117.0	102.4	91.8	84.5	80.9	80.5
135°	188.4	181.8	166.2	147.6	129.4	112.2	98.8	88.6	81.3	78.0	78.0
137.5°	174.2	168.0	154.1	138.5	122.1	106.8	94.4	84.5	78.3	75.1	74.3
140°	159.6	154.5	142.5	128.6	114.4	100.9	89.6	80.5	74.7	71.8	71.4
142.5°	146.1	141.8	131.6	120.3	107.1	95.5	84.9	77.3	71.8	68.9	68.5
145°	133.4	129.4	120.6	110.4	99.9	89.6	80.2	73.2	68.5	66.3	66.0
147.5°	120.6	118.1	110.8	102.4	92.6	83.5	75.8	70.0	65.6	63.8	63.4
150°	110.1	106.8	101.3	93.7	86.0	78.3	71.8	66.7	63.4	61.6	61.6
152.5°	99.5	97.7	92.2	86.4	79.8	73.6	67.8	63.8	61.2	59.8	59.8
155°	91.5	88.9	84.2	79.4	74.0	68.9	64.9	61.6	59.4	58.3	57.9
157.5°	83.1	81.6	78.0	73.6	69.6	65.6	62.3	59.8	57.9	57.2	56.8
160°	76.2	75.1	72.2	68.9	65.6	62.7	60.1	58.3	56.8	56.1	56.1
162.5°	70.3	69.6	67.1	64.9	62.3	60.1	58.3	56.8	56.1	55.8	55.8
165°	66.0	65.2	63.4	61.6	60.1	58.3	57.2	56.1	55.4	55.4	55.4
167.5°	62.3	61.6	60.5	59.4	58.3	56.8	56.1	55.4	55.4	55.0	55.0
170°	59.4	59.0	57.9	57.2	56.5	55.8	55.4	55.0	54.7	54.7	54.7
172.5°	57.2	56.8	56.1	55.8	55.0	54.7	54.7	54.7	54.7	54.7	54.7
175°	55.4	55.0	55.0	54.7	54.3	54.3	53.9	54.3	54.3	54.3	54.3
177.5°	54.3	54.3	53.9	53.9	53.9	53.9	53.9	54.3	54.3	54.7	54.7
180°	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

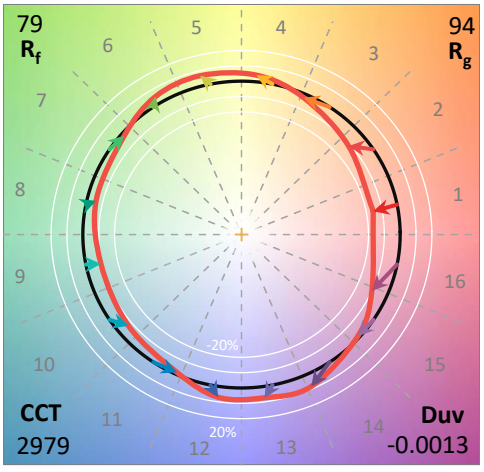
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-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):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

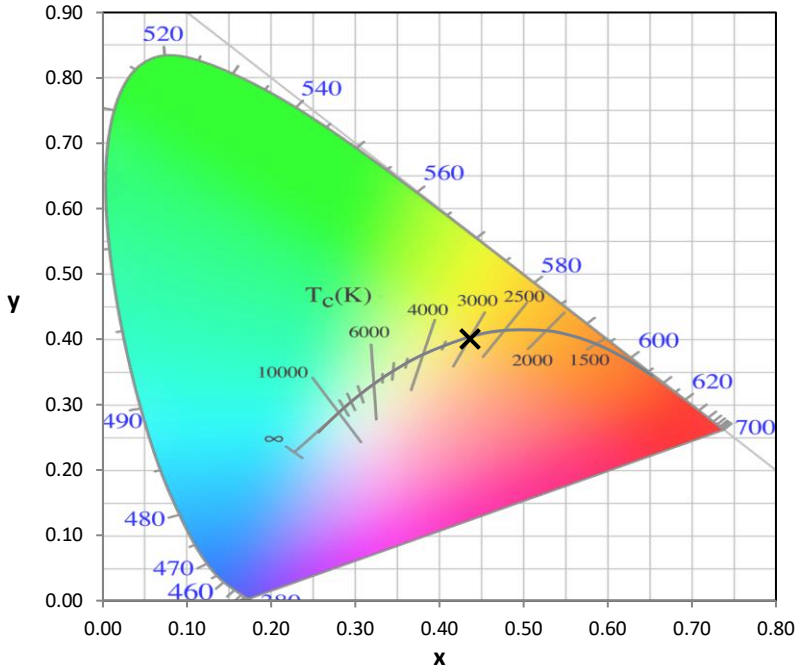
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

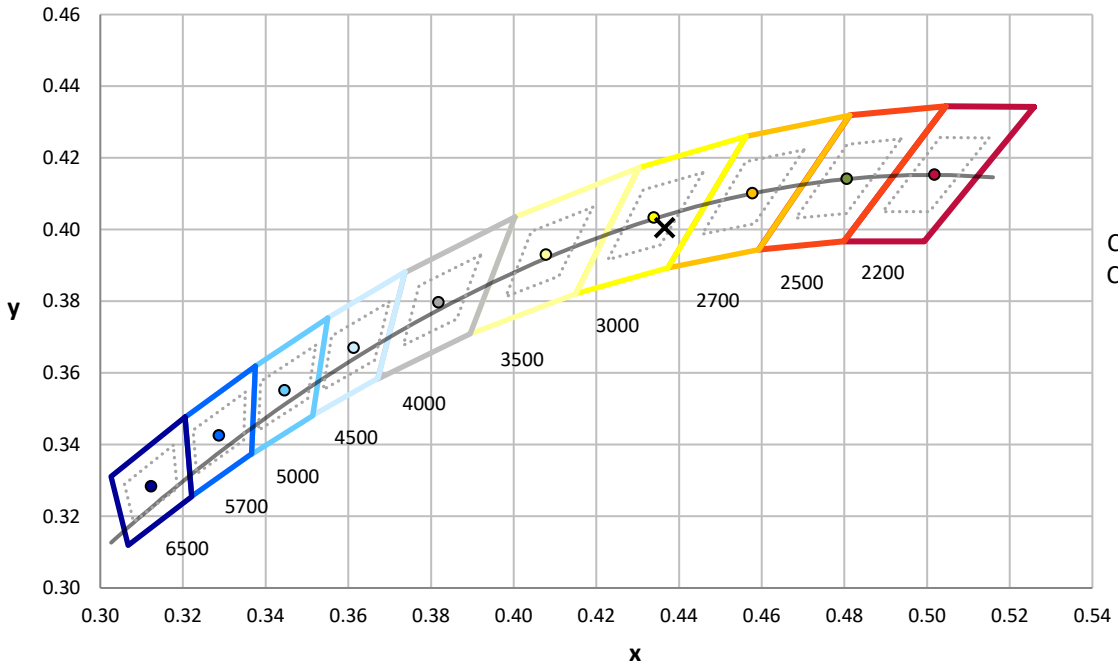
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

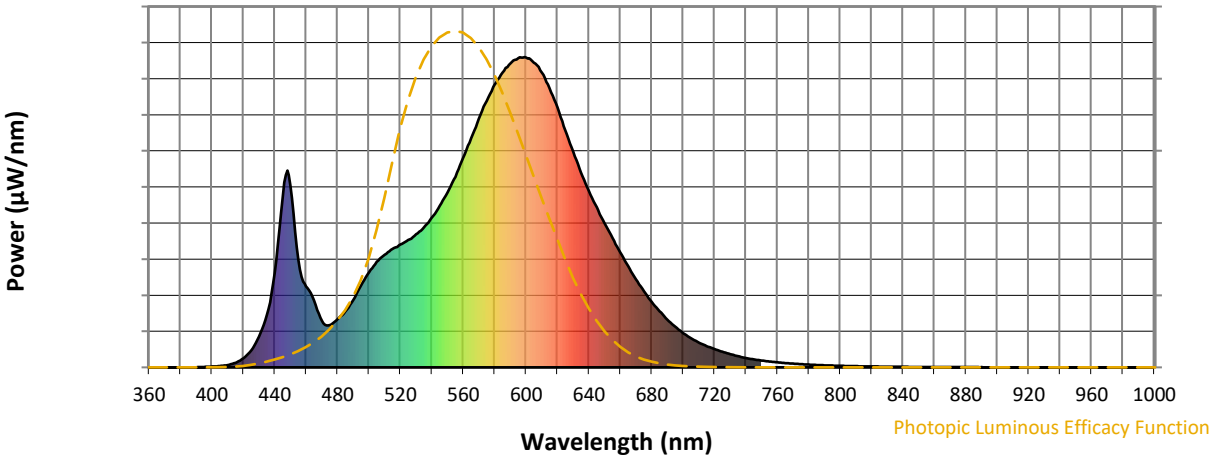


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

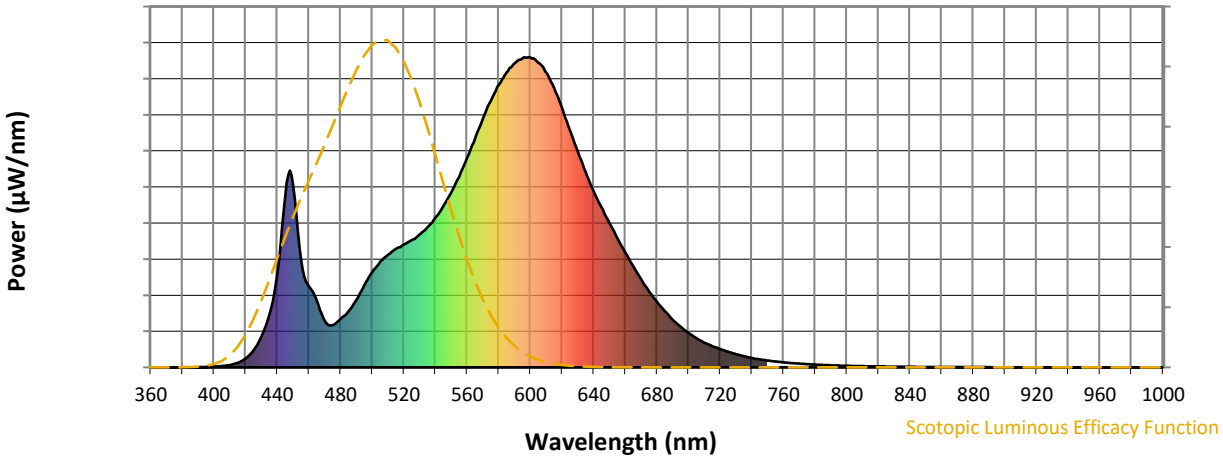


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

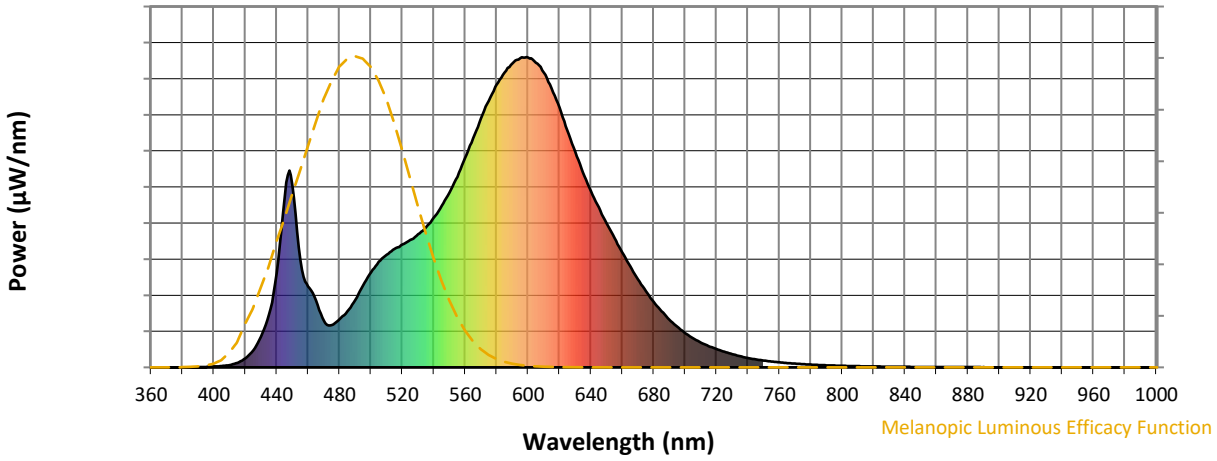


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

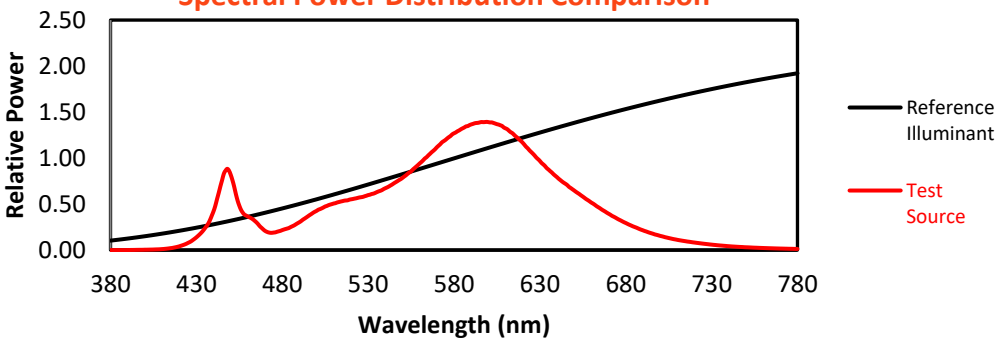
REPORT NUMBER: SP1-2501-332-9

TM-30-18

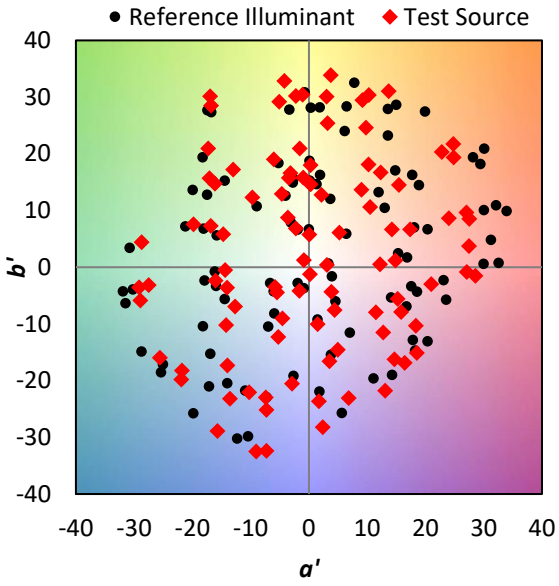
Summary

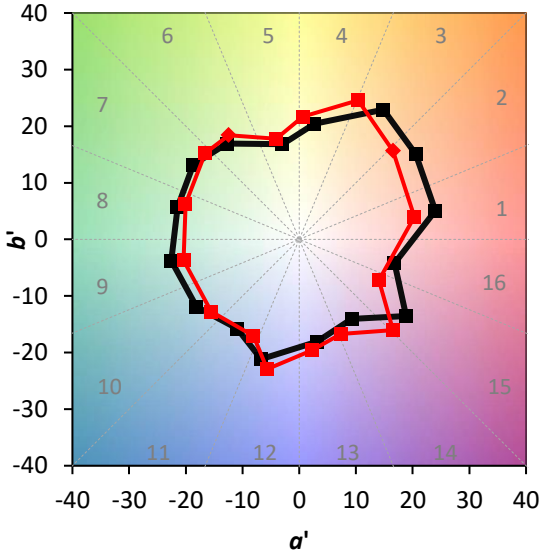
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

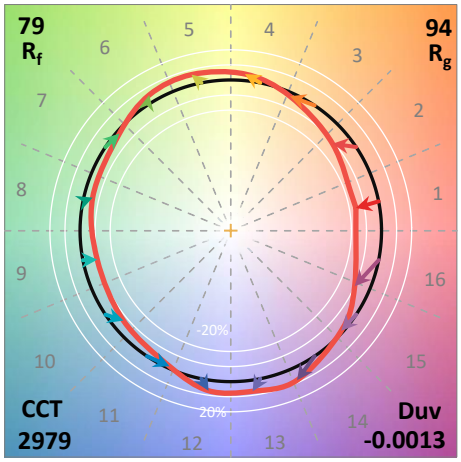
Spectral Power Distribution Comparison

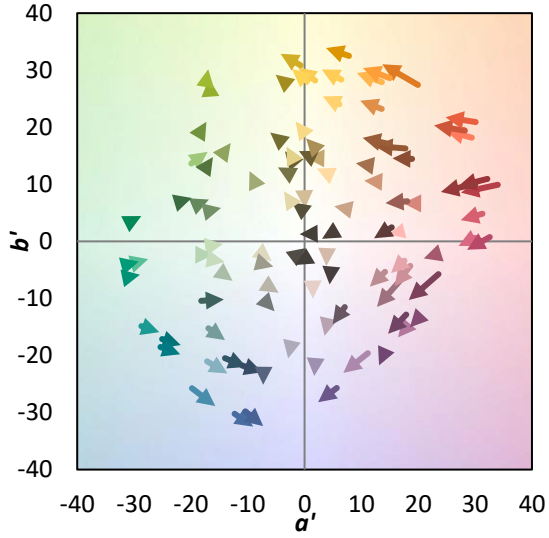


Color Vector Graphics







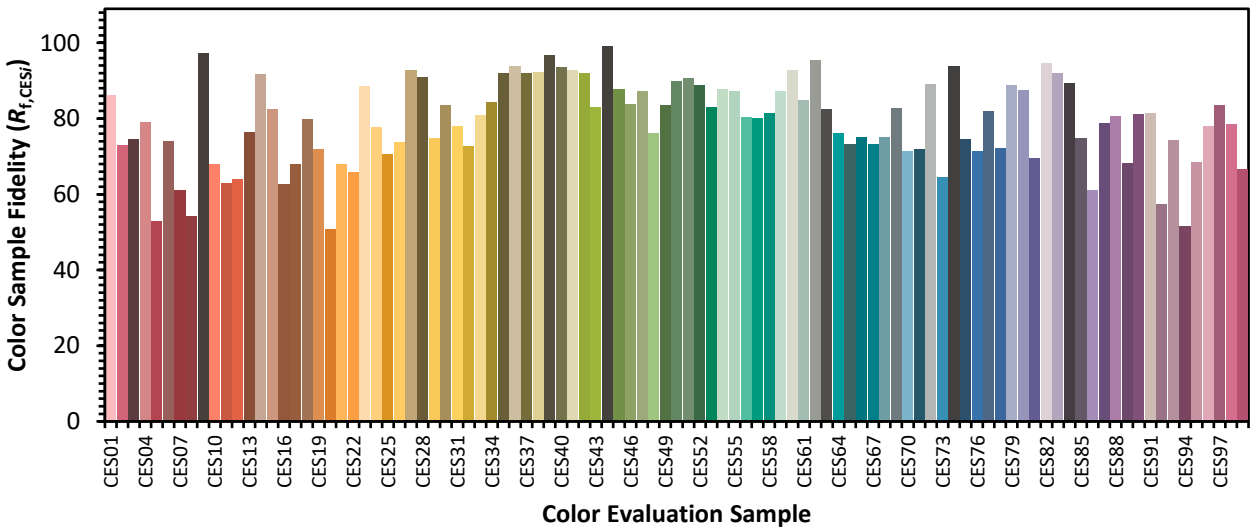


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

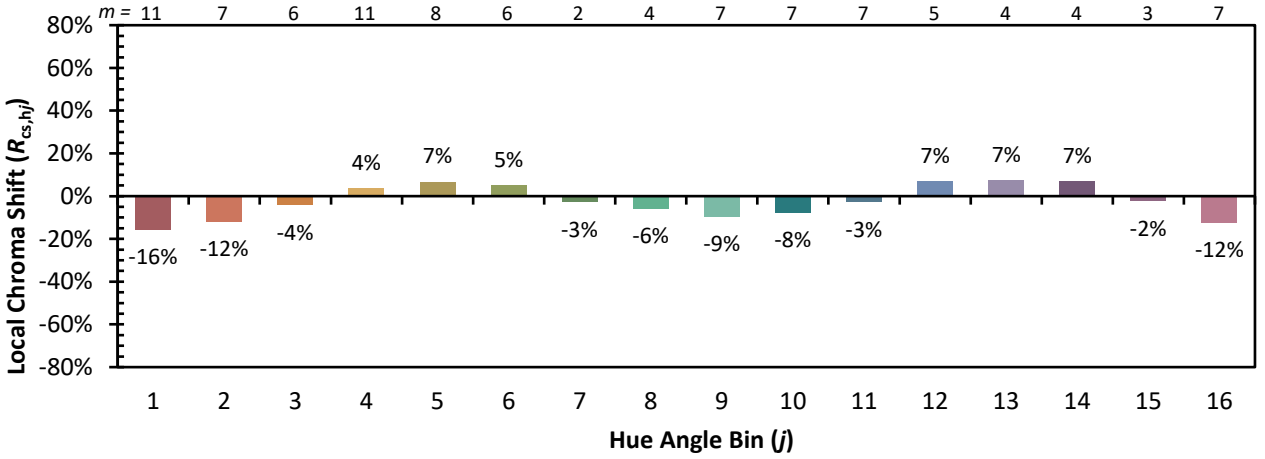
CES01 = 86	CES26 = 74	CES51 = 91	CES76 = 71
CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
CES25 = 72	CES50 = 90	CES75 = 75	

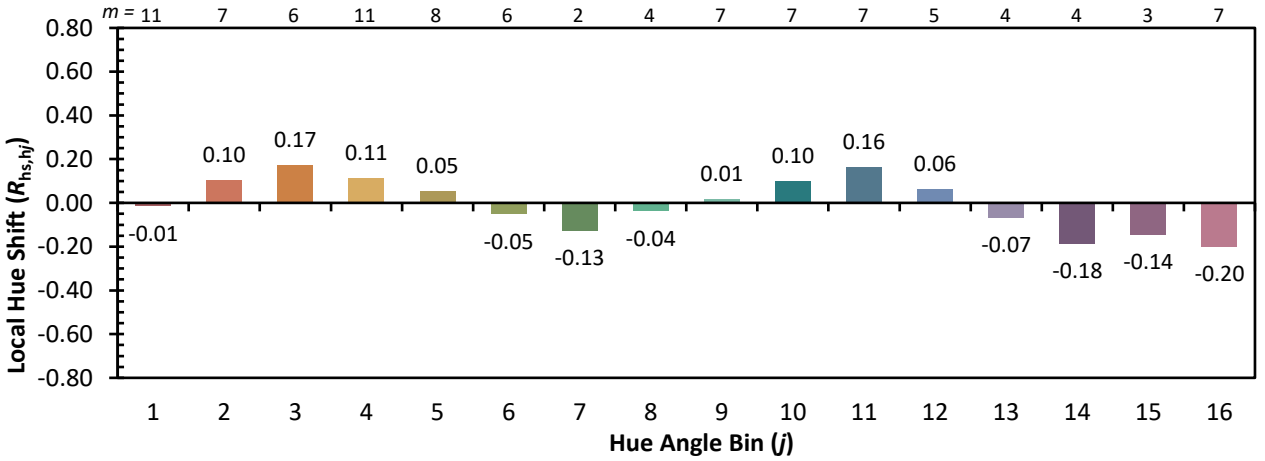


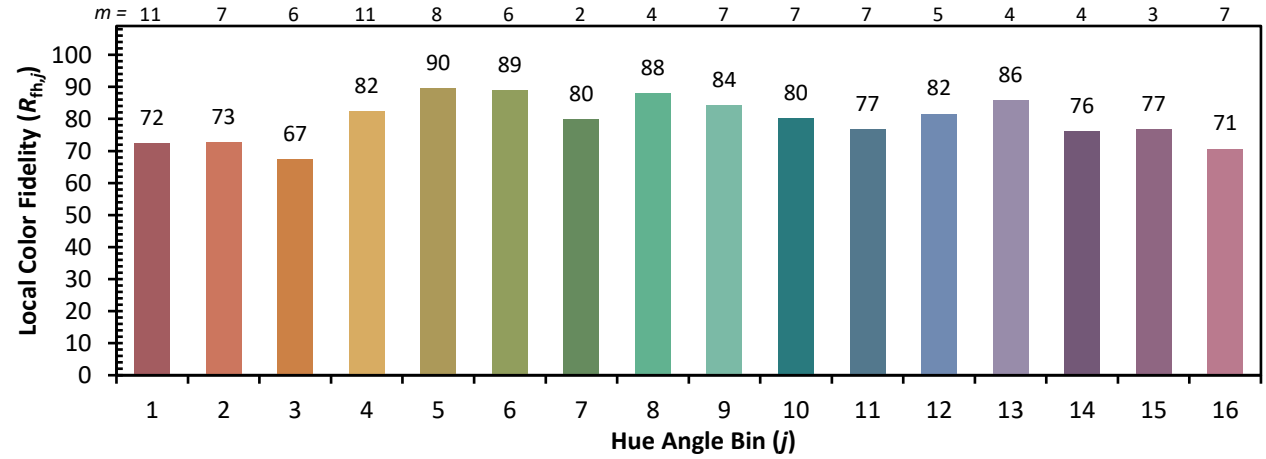
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Color Rendition by Hue-Angle Bin



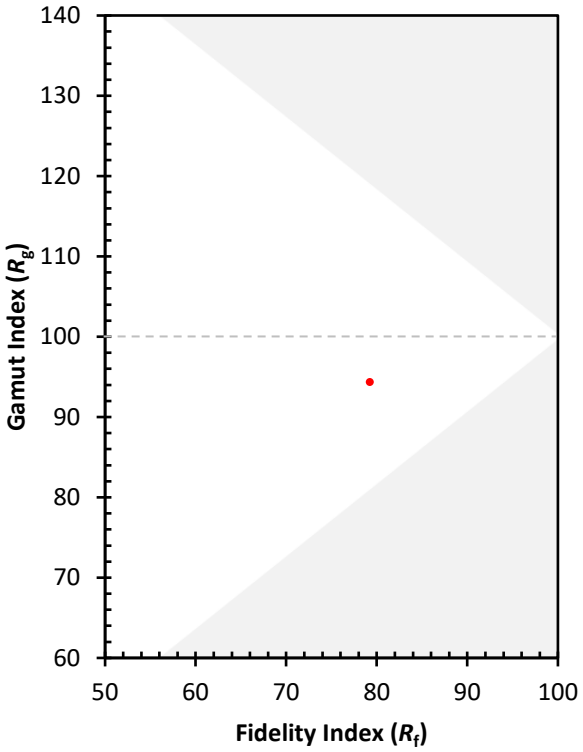


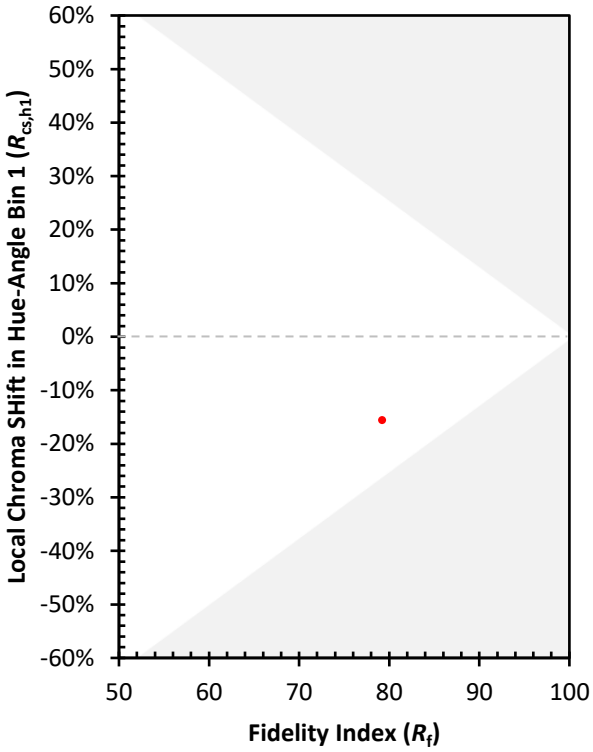


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Measure Comparisons





(END OF REPORT)