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: P1045827

Luminaire Tested: **FFX-CLB-50-722-U-VM8-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045827
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-722-U-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4579.8 lumens
Efficiency:	N/A
Efficacy:	90.5 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):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

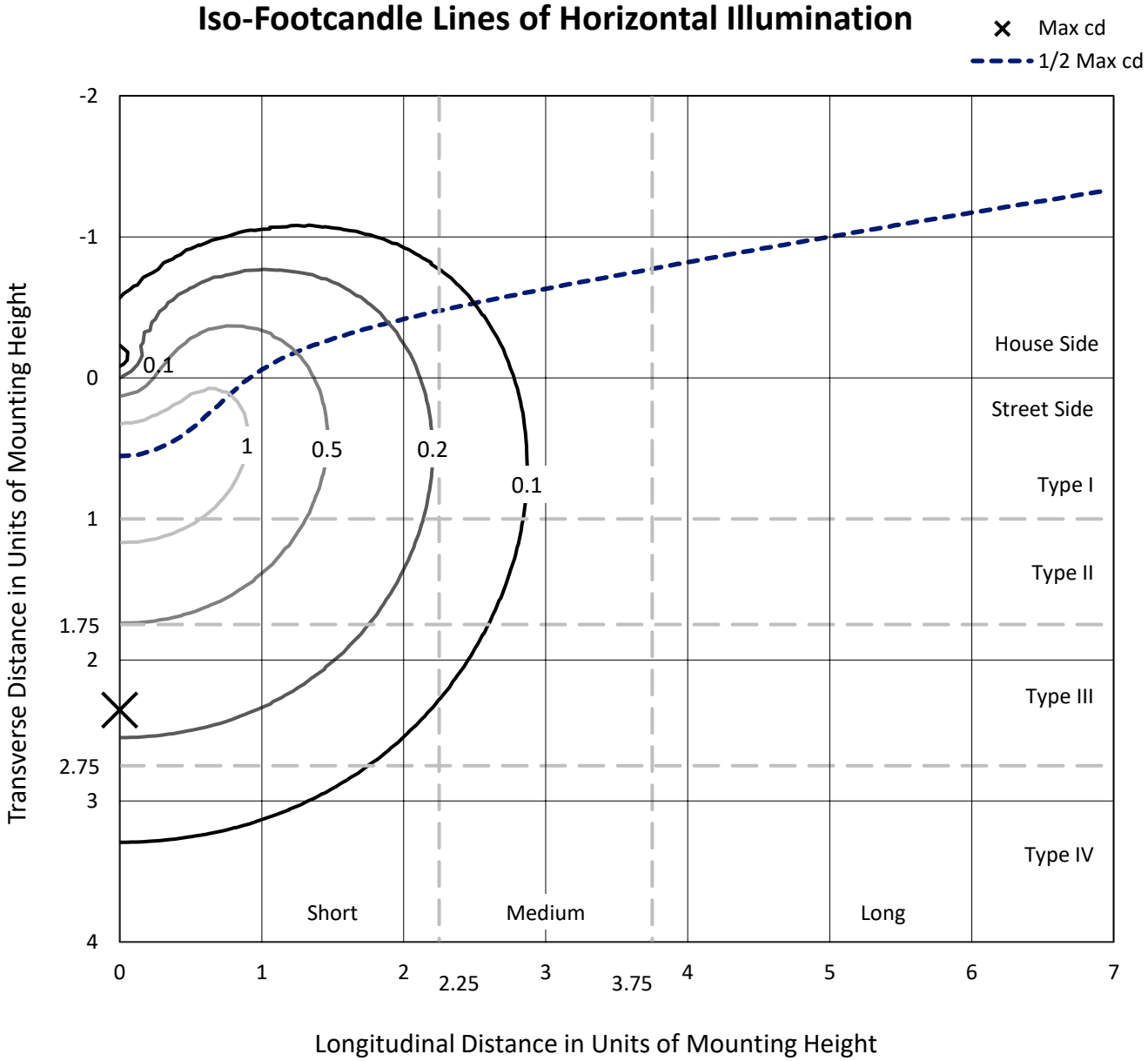


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Iso-Footcandle Lines of Horizontal Illumination



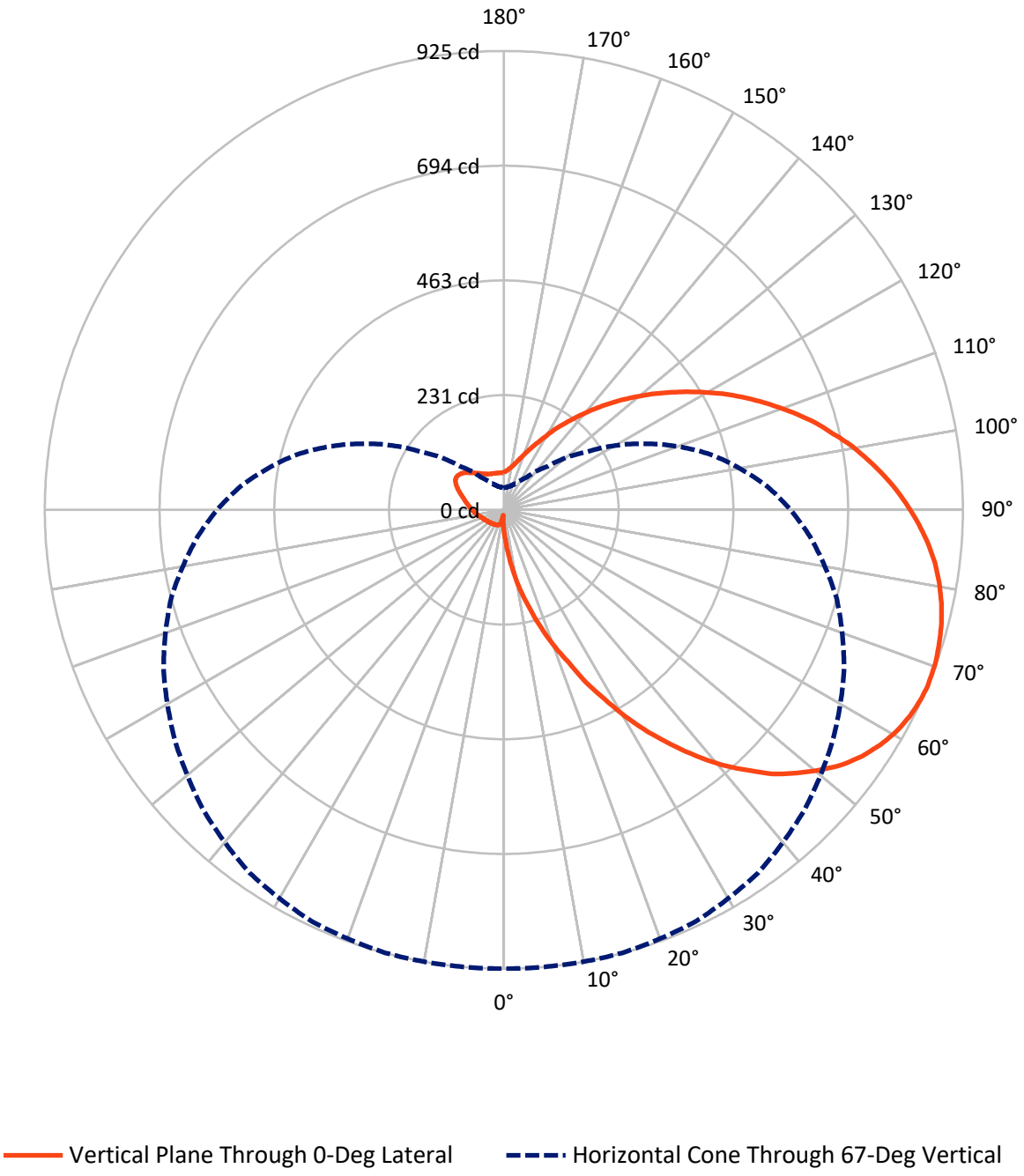
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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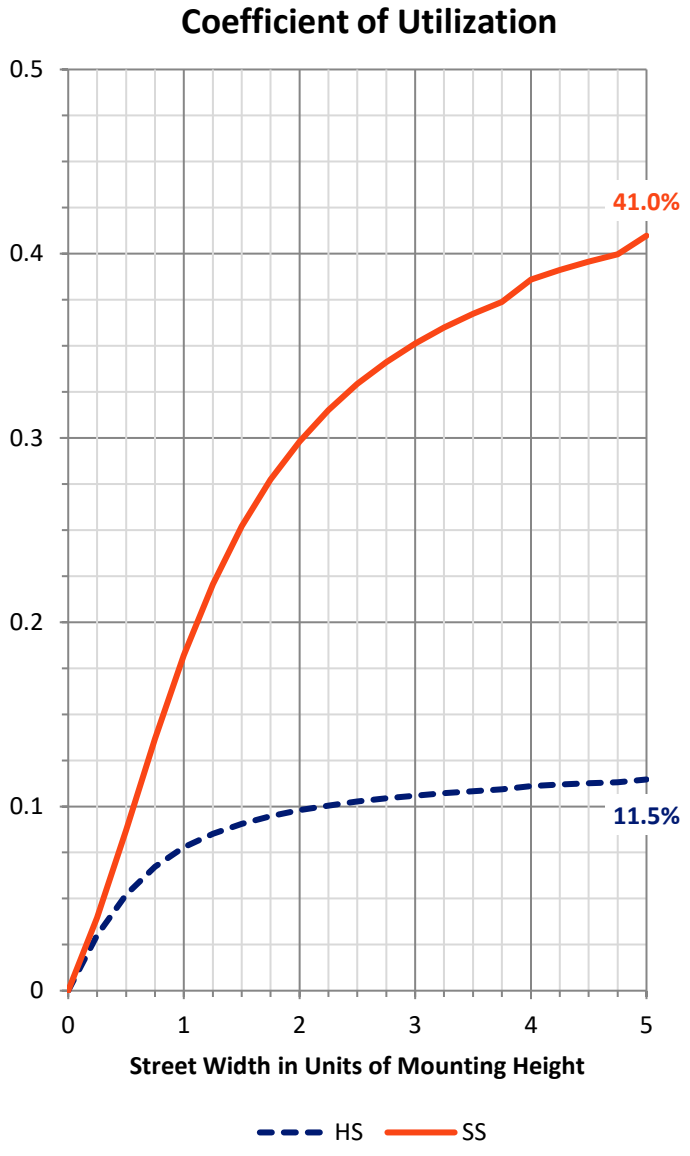
REPORT NUMBER: P1045827
CATALOG NUMBER: FFX-CLB-50-722-U-VM8-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	567.1	540.3	1107.5
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	2138.5	1333.9	3472.4
	% Fixture	46.7	29.1	75.8
Total	Lumens	2705.6	1874.2	4579.8
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.1
10°-20°	38.1	0.8
20°-30°	106.3	2.3
30°-40°	212.6	4.6
40°-50°	334.1	7.3
50°-60°	439.4	9.6
60°-70°	507.3	11.1
70°-80°	535.3	11.7
80°-90°	526.5	11.5
90°-100°	483.2	10.6
100°-110°	417.9	9.1
110°-120°	343.0	7.5
120°-130°	261.6	5.7
130°-140°	176.2	3.8
140°-150°	104.4	2.3
150°-160°	54.9	1.2
160°-170°	25.6	0.6
170°-180°	7.4	0.2
0°-90°	2705.6	59.1
0°-180°	4579.8	100.0



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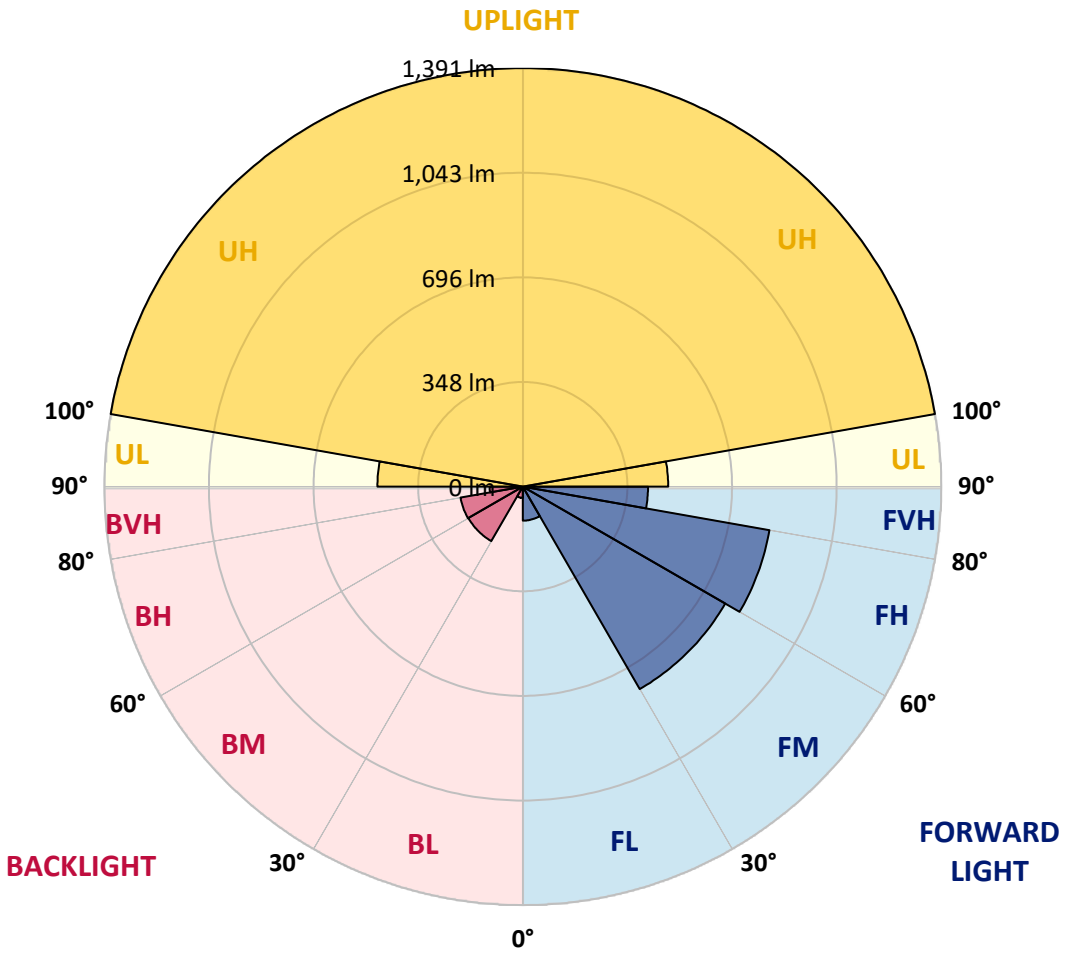
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	113.0	2.5			
FM	(30°-60°)	777.0	17.0			
FH	(60°-80°)	832.4	18.2			G1/1800
FVH	(80°-90°)	416.1	9.1			G3/500
BL	(0°-30°)	37.4	0.8	B0/110		
BM	(30°-60°)	209.1	4.6	B0/220		
BH	(60°-80°)	210.2	4.6	B1/500		G1/500
BVH	(80°-90°)	110.4	2.4			G2/225
UL	(90°-100°)	483.2	10.6		U3/500	
UH	(100°-180°)	1391.0	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°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
2.5°	59.1	60.1	60.1	59.6	59.1	58.1	57.1	55.1	51.1	48.1	45.1
5°	85.7	85.7	86.2	85.7	83.7	81.7	77.2	73.7	67.1	62.1	56.6
7.5°	116.2	117.8	117.3	115.7	112.2	107.7	102.2	95.7	89.2	81.7	73.2
10°	150.3	149.8	149.8	147.8	143.8	137.8	131.8	124.3	114.7	105.2	94.2
12.5°	182.4	183.9	182.9	180.4	175.4	170.9	163.4	154.8	143.8	133.8	118.8
15°	217.0	218.0	218.0	216.5	212.0	205.4	196.9	188.9	174.4	160.3	145.8
17.5°	256.6	255.0	253.0	253.0	247.5	242.0	233.5	222.5	206.4	190.9	171.4
20°	296.1	295.6	293.1	291.6	288.1	280.1	269.1	256.6	240.5	223.0	199.9
22.5°	333.2	338.2	337.7	335.2	330.7	322.7	310.7	295.6	279.1	257.1	230.5
25°	385.8	382.8	383.3	380.8	376.8	367.3	355.3	337.7	317.7	293.1	263.1
27.5°	431.4	430.4	430.4	428.9	423.4	413.4	399.4	382.8	359.8	330.7	297.1
30°	484.0	481.5	480.5	479.0	473.5	462.5	448.0	427.4	402.4	372.8	333.2
32.5°	533.6	531.6	528.1	527.6	523.6	512.1	495.6	474.5	446.0	411.4	367.8
35°	581.2	582.3	580.7	578.2	572.7	561.7	545.7	520.1	492.1	452.0	404.9
37.5°	629.4	628.9	629.9	627.8	619.3	608.8	589.8	562.7	530.6	487.0	437.4
40°	676.5	673.9	673.4	671.4	665.4	654.9	633.4	605.8	569.7	524.6	468.5
42.5°	717.0	718.0	717.0	715.0	707.0	695.0	672.4	641.9	603.8	555.2	497.6
45°	759.6	758.1	757.6	757.6	747.1	734.6	710.0	678.5	635.9	583.8	522.6
47.5°	793.2	795.2	794.2	791.7	784.7	769.2	743.1	708.5	663.9	610.3	545.2
50°	824.8	827.3	827.8	825.3	816.8	799.7	772.7	734.1	689.0	632.4	564.7
52.5°	853.8	853.3	854.8	853.3	845.3	827.8	796.7	757.6	709.0	650.9	579.7
55°	876.4	876.4	877.4	875.4	867.9	848.3	816.3	774.7	725.1	665.4	592.8
57.5°	894.4	895.4	894.9	894.4	885.9	865.4	831.3	788.2	738.1	676.0	602.3
60°	908.5	909.0	909.0	908.0	899.4	877.9	843.3	798.7	746.6	685.0	609.8
62.5°	917.5	918.0	918.0	917.0	908.5	886.4	851.3	805.2	752.6	690.5	614.8
65°	923.0	923.5	923.5	922.5	914.0	891.4	855.3	808.7	755.6	693.5	617.8
67°	925.0	925.0	925.0	924.5	915.5	893.4	856.3	809.2	756.6	694.5	619.3
67.5°	924.5	924.5	925.0	924.0	915.5	892.9	855.8	809.2	756.1	694.5	619.3
70°	923.0	923.0	923.0	922.0	913.5	890.9	853.8	806.7	754.6	693.5	618.8
72.5°	917.5	918.0	918.0	917.0	908.5	886.4	849.3	802.2	750.6	690.5	617.3
75°	911.0	911.0	911.0	910.0	901.4	879.4	842.8	796.2	745.6	686.5	614.3
77.5°	901.4	901.4	901.4	900.4	891.9	870.4	834.3	788.7	739.1	681.0	610.8
80°	889.4	889.9	889.4	888.4	879.9	858.3	823.8	779.2	730.6	674.4	605.8
82.5°	875.4	875.9	875.4	873.4	865.4	844.8	810.2	766.6	720.5	665.9	599.8
85°	857.3	856.8	857.3	854.3	847.3	826.8	795.2	752.6	708.0	655.9	591.3
87.5°	836.8	837.3	836.3	834.8	826.3	806.2	776.2	736.6	693.5	643.9	581.2
90°	814.3	814.3	813.7	811.7	802.7	784.7	756.1	718.0	678.0	630.4	570.7
92.5°	791.2	790.7	789.2	788.2	780.2	761.6	734.1	700.0	662.4	616.8	559.7
95°	765.6	765.6	764.6	762.6	753.6	738.6	712.0	680.0	644.4	602.3	548.2
97.5°	738.6	738.1	737.6	734.6	726.6	711.5	690.0	658.9	626.3	586.8	535.2
100°	712.0	710.5	709.5	706.5	699.5	685.0	664.4	637.4	605.8	569.7	521.1
102.5°	681.0	681.0	680.5	677.5	668.4	656.4	637.9	613.8	586.8	552.2	506.1
105°	653.4	650.9	649.9	646.9	639.9	626.8	611.3	590.3	565.2	533.1	491.1
107.5°	622.3	620.3	619.8	615.3	609.8	597.8	584.8	565.2	544.2	515.6	475.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*590.8*	589.8	589.3	584.8	577.7	569.7	556.2	540.7	522.1	496.1	461.0
112.5°	*559.7*	558.7	558.7	555.2	548.7	538.7	529.1	515.6	499.1	476.5	444.0
115°	*529.1*	527.6	527.1	523.1	516.6	509.1	499.6	490.1	476.0	457.0	427.4
117.5°	*498.6*	496.6	497.1	493.6	488.6	481.0	472.0	465.5	453.5	435.9	410.9
120°	*467.0*	467.5	467.5	463.0	458.5	452.5	445.0	438.4	430.4	414.9	391.8
122.5°	*436.9*	437.9	437.9	434.9	429.4	423.9	418.9	412.9	405.9	393.8	373.3
125°	*406.9*	408.9	407.9	405.4	400.9	394.8	391.3	386.3	380.8	370.8	352.8
127.5°	*379.3*	379.3	376.8	377.3	372.8	367.8	364.8	361.3	355.8	346.2	331.7
130°	*350.8*	351.3	351.8	348.7	344.7	340.7	337.7	336.2	331.7	323.7	309.2
132.5°	*324.7*	324.7	323.7	321.7	318.2	315.2	315.2	310.7	307.2	299.6	287.1
135°	*299.1*	298.6	298.6	296.6	294.1	292.6	289.1	287.1	283.6	276.6	267.1
137.5°	*274.1*	275.1	274.1	272.6	270.1	268.1	265.6	265.1	260.1	255.0	244.5
140°	*250.0*	251.5	250.0	249.5	247.5	245.0	243.5	241.5	240.0	233.5	224.5
142.5°	*227.5*	228.5	227.5	227.0	225.5	223.5	222.5	221.0	217.5	213.5	205.9
145°	*207.9*	207.4	207.4	206.9	204.9	203.4	201.9	200.9	198.9	194.9	186.4
147.5°	*188.9*	187.4	188.4	187.4	185.9	184.9	184.4	182.4	180.4	176.4	170.4
150°	*169.4*	170.4	169.9	169.4	167.9	167.9	166.4	164.9	163.4	158.8	154.8
152.5°	*153.3*	153.3	153.8	152.8	152.3	150.8	149.8	149.3	147.3	144.3	139.8
155°	*139.8*	139.3	139.3	139.3	138.3	136.8	136.3	135.3	134.3	130.8	126.8
157.5°	*126.8*	126.8	126.8	126.3	126.3	124.8	124.3	122.8	121.3	119.3	115.7
160°	*115.7*	115.7	115.2	115.2	114.7	114.2	113.2	111.7	110.7	109.2	106.2
162.5°	*106.7*	106.2	106.2	105.7	105.2	104.2	103.7	103.2	101.7	100.2	97.7
165°	*98.2*	98.2	98.2	97.7	97.2	96.7	96.2	95.2	94.2	93.2	91.7
167.5°	*91.7*	91.7	91.7	91.2	91.2	90.7	90.2	89.2	88.2	87.2	86.2
170°	*86.7*	86.7	86.7	86.2	85.7	85.2	84.7	84.2	83.7	82.7	82.2
172.5°	*82.7*	82.7	82.7	82.7	81.7	81.2	80.7	80.7	80.2	79.7	79.2
175°	*79.2*	79.2	79.2	79.2	78.7	78.2	77.7	77.7	77.2	76.7	76.2
177.5°	*77.2*	77.2	77.2	76.7	76.7	76.2	75.7	75.7	75.2	75.2	74.7
180°	*74.7*	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
2.5°	43.1	41.1	37.6	34.6	32.1	29.6	28.1	26.6	26.6	27.1	26.1
5°	52.1	48.6	42.1	35.1	29.1	24.1	20.0	16.5	13.5	12.0	12.0
7.5°	69.1	65.1	56.1	47.1	38.6	30.6	24.1	18.5	14.0	11.5	11.0
10°	88.7	84.2	71.7	60.6	50.1	40.1	31.6	24.1	19.0	16.5	16.0
12.5°	111.2	105.2	90.2	76.2	62.6	50.1	39.6	31.1	26.1	23.6	23.0
15°	137.3	127.8	110.7	93.2	75.7	60.1	47.6	38.1	32.6	29.1	29.1
17.5°	160.8	150.8	130.3	107.7	87.7	69.6	54.6	43.1	35.6	32.1	31.6
20°	187.9	174.4	149.8	123.8	99.2	77.2	59.1	46.1	37.1	32.6	32.6
22.5°	215.5	201.4	171.4	139.8	110.2	84.2	63.6	48.1	38.1	33.1	32.6
25°	248.0	229.0	192.9	157.3	122.8	91.7	67.6	50.1	39.1	34.1	33.1
27.5°	279.6	260.1	218.0	174.9	134.3	99.2	71.2	52.1	40.1	34.6	34.1
30°	312.7	288.6	241.0	192.9	146.3	105.7	74.7	53.6	40.6	35.1	34.1
32.5°	345.7	319.2	266.6	210.5	157.8	111.7	77.7	54.6	41.6	35.6	34.6
35°	379.3	350.8	291.1	228.0	168.4	117.3	79.7	55.6	42.1	35.6	35.1
37.5°	408.4	378.3	314.2	244.0	177.4	121.8	81.7	56.6	42.1	36.1	35.6
40°	437.4	404.9	334.2	257.6	185.4	125.3	83.2	57.1	42.6	36.6	36.1
42.5°	463.5	427.4	351.8	269.6	191.9	127.8	83.7	57.1	43.1	37.1	36.6
45°	487.0	450.5	368.3	281.1	197.4	129.3	84.2	57.6	43.6	37.6	37.1
47.5°	508.6	469.5	383.3	290.6	201.9	130.8	84.2	57.6	44.1	38.6	37.6
50°	526.6	485.5	395.9	298.6	204.9	131.3	83.7	57.6	44.6	39.1	38.6
52.5°	540.7	499.1	406.4	304.2	206.9	130.8	83.2	57.6	45.1	39.6	39.1
55°	552.7	510.1	413.9	308.7	207.4	129.8	82.7	57.6	45.6	40.6	40.1
57.5°	561.7	518.1	420.4	312.2	207.9	128.8	81.7	57.6	46.1	41.1	40.6
60°	568.7	525.1	425.4	314.2	207.4	127.3	81.2	57.6	46.6	42.1	41.6
62.5°	573.7	529.1	428.4	314.7	205.9	125.8	80.2	57.6	47.1	43.1	42.6
65°	576.7	532.1	430.9	315.2	204.4	124.3	79.7	58.1	48.1	44.6	44.1
67°	*577.7*	*533.6*	*431.4*	*315.2*	*203.4*	*123.3*	*79.7*	*58.6*	*49.1*	*45.1*	*44.6*
67.5°	578.2	533.6	431.4	314.7	202.9	123.3	79.7	58.6	49.1	45.6	45.1
70°	577.7	533.6	431.4	313.7	201.4	122.3	79.2	59.6	50.6	47.1	46.6
72.5°	576.7	532.6	430.4	312.2	199.4	121.3	79.7	60.6	52.1	48.6	48.1
75°	574.2	530.6	428.4	310.2	197.9	120.3	80.2	61.6	53.6	50.6	50.1
77.5°	571.7	528.1	426.9	308.2	196.4	120.3	80.7	63.1	55.6	52.6	52.1
80°	567.2	524.6	423.9	306.2	194.9	119.8	81.7	65.1	57.6	54.6	54.1
82.5°	561.7	519.6	419.9	303.2	193.4	119.8	83.2	66.6	59.6	56.6	56.1
85°	554.2	513.1	414.9	299.1	191.9	120.3	84.2	68.6	61.6	59.1	58.6
87.5°	545.7	505.1	408.9	295.6	190.4	120.3	85.7	70.7	63.6	61.1	61.1
90°	535.7	496.6	401.9	291.6	188.9	121.3	87.7	72.7	66.1	63.6	63.6
92.5°	526.6	487.5	396.4	287.6	187.9	122.3	89.7	75.2	68.6	66.1	66.1
95°	514.6	478.0	388.3	284.1	187.4	123.3	91.7	77.7	71.7	69.1	68.6
97.5°	503.1	467.5	381.3	280.1	186.9	125.3	94.2	80.7	74.2	71.7	71.7
100°	490.6	457.0	373.3	276.6	186.9	127.8	97.7	83.7	77.7	75.2	74.7
102.5°	478.5	445.5	365.3	273.1	187.9	130.3	101.2	87.2	81.2	78.7	78.2
105°	465.0	433.4	358.3	270.1	188.9	133.8	105.2	91.7	85.2	82.7	82.2
107.5°	451.5	422.4	350.3	267.6	190.9	138.3	110.2	96.2	89.7	86.7	86.2

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

Scaled Data Report

REPORT NUMBER: P1045827
CATALOG NUMBER: FFX-CLB-50-722-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	436.9	410.4	343.2	265.6	193.9	143.3	115.7	102.2	94.7	91.7	91.2
112.5°	423.4	398.4	335.7	264.1	196.9	149.3	122.3	107.7	100.7	96.7	96.2
115°	408.4	385.8	328.7	262.6	200.4	155.3	129.3	113.7	106.2	102.2	102.2
117.5°	393.8	372.8	320.7	261.1	203.9	161.8	135.8	120.3	111.7	107.7	107.2
120°	376.8	358.8	312.2	258.1	205.9	166.9	141.3	125.8	116.2	112.2	111.7
122.5°	359.8	343.2	301.1	253.5	206.4	169.9	145.3	130.3	120.3	115.7	115.2
125°	340.2	326.2	289.6	246.5	204.9	171.4	147.8	131.8	121.8	116.8	116.2
127.5°	321.2	307.7	276.1	238.0	200.9	169.9	147.3	131.8	121.8	116.2	115.7
130°	300.6	288.6	260.1	227.5	194.4	166.4	145.3	129.8	119.8	114.2	113.7
132.5°	279.6	269.6	244.5	216.0	186.4	160.8	140.8	126.3	116.2	111.2	110.7
135°	259.1	250.0	228.5	202.9	177.9	154.3	135.8	121.8	111.7	107.2	107.2
137.5°	239.5	231.0	212.0	190.4	167.9	146.8	129.8	116.2	107.7	103.2	102.2
140°	219.5	212.5	195.9	176.9	157.3	138.8	123.3	110.7	102.7	98.7	98.2
142.5°	200.9	194.9	180.9	165.4	147.3	131.3	116.8	106.2	98.7	94.7	94.2
145°	183.4	177.9	165.9	151.8	137.3	123.3	110.2	100.7	94.2	91.2	90.7
147.5°	165.9	162.3	152.3	140.8	127.3	114.7	104.2	96.2	90.2	87.7	87.2
150°	151.3	146.8	139.3	128.8	118.3	107.7	98.7	91.7	87.2	84.7	84.7
152.5°	136.8	134.3	126.8	118.8	109.7	101.2	93.2	87.7	84.2	82.2	82.2
155°	125.8	122.3	115.7	109.2	101.7	94.7	89.2	84.7	81.7	80.2	79.7
157.5°	114.2	112.2	107.2	101.2	95.7	90.2	85.7	82.2	79.7	78.7	78.2
160°	104.7	103.2	99.2	94.7	90.2	86.2	82.7	80.2	78.2	77.2	77.2
162.5°	96.7	95.7	92.2	89.2	85.7	82.7	80.2	78.2	77.2	76.7	76.7
165°	90.7	89.7	87.2	84.7	82.7	80.2	78.7	77.2	76.2	76.2	76.2
167.5°	85.7	84.7	83.2	81.7	80.2	78.2	77.2	76.2	76.2	75.7	75.7
170°	81.7	81.2	79.7	78.7	77.7	76.7	76.2	75.7	75.2	75.2	75.2
172.5°	78.7	78.2	77.2	76.7	75.7	75.2	75.2	75.2	75.2	75.2	75.2
175°	76.2	75.7	75.7	75.2	74.7	74.7	74.2	74.7	74.7	74.7	74.7
177.5°	74.7	74.7	74.2	74.2	74.2	74.2	74.2	74.7	74.7	75.2	75.2
180°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

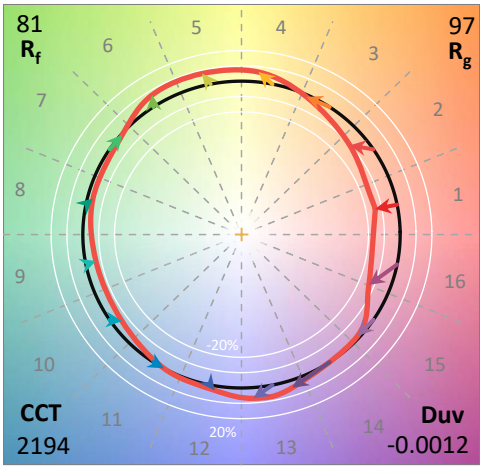
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
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-20-722-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):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

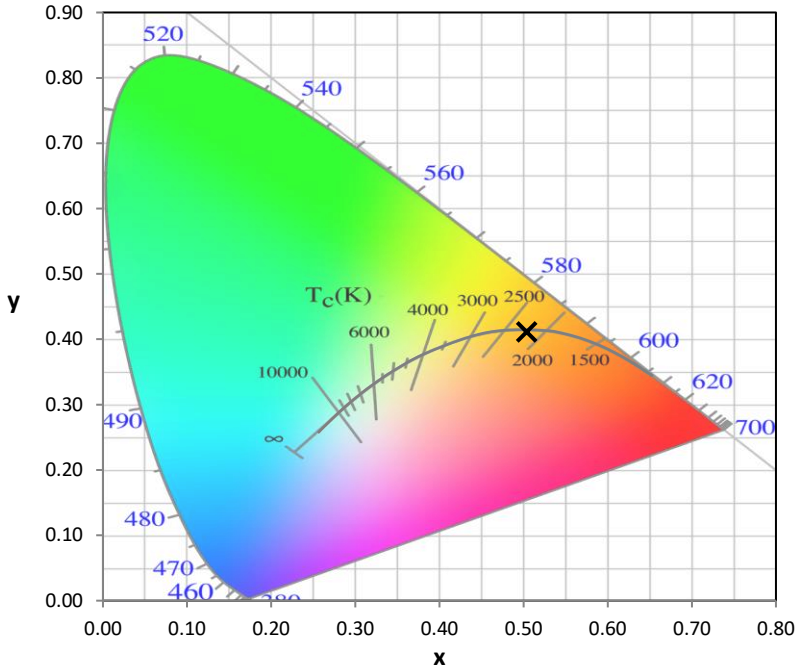
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

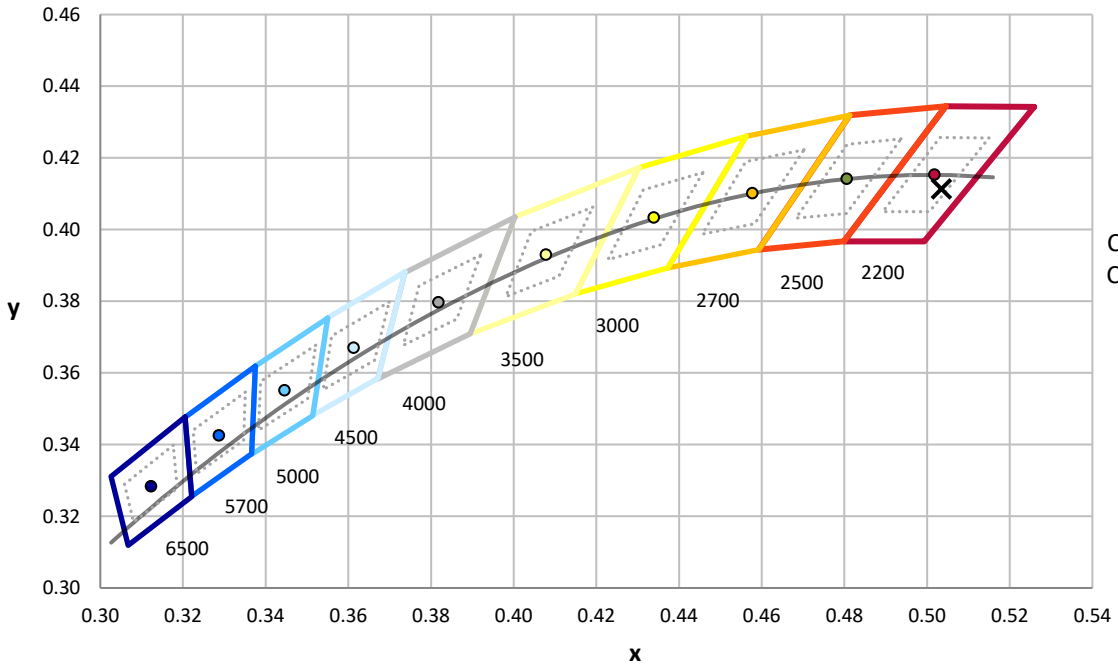
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

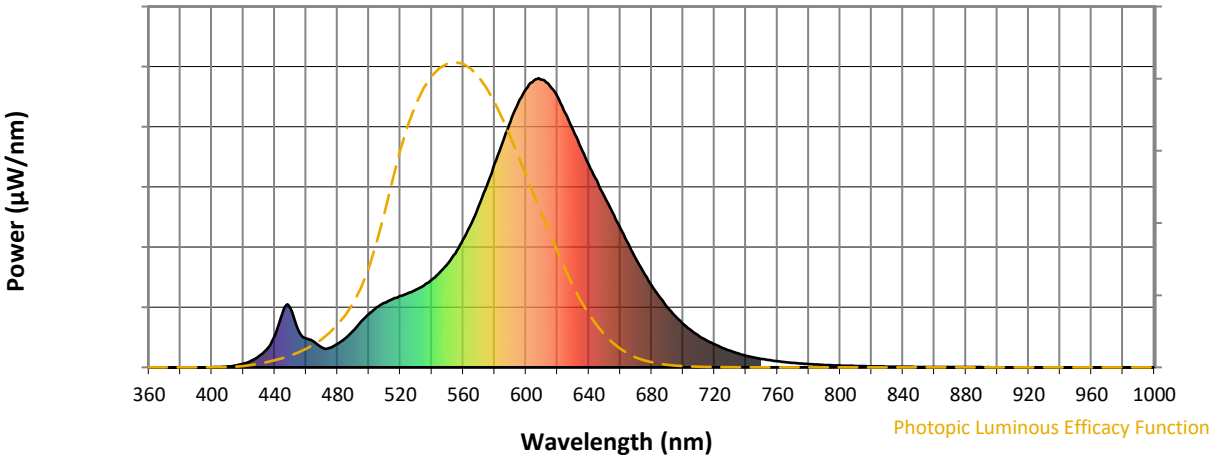


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

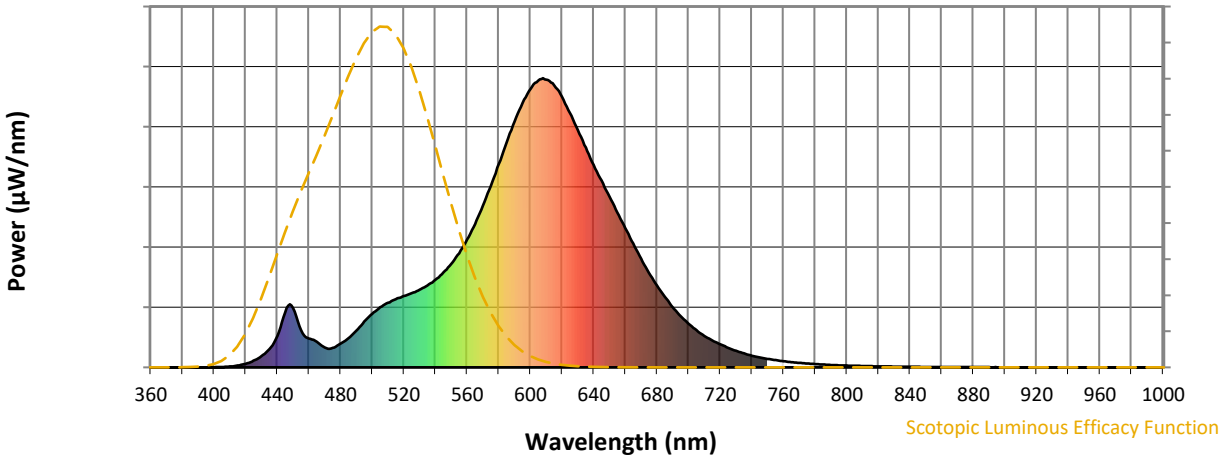


Photopic Lumens: NR

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

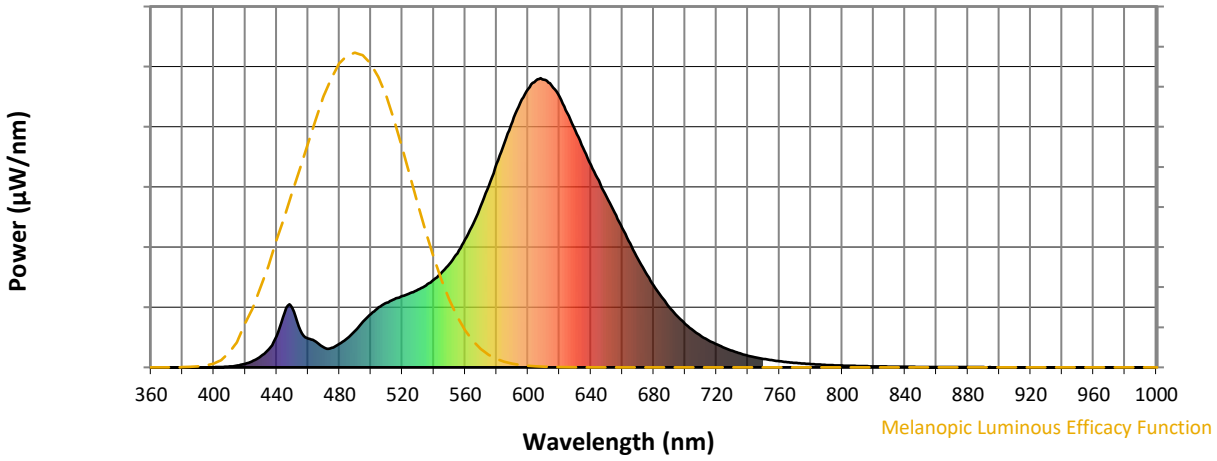


Scotopic Lumens: NR **S/P: 0.96**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

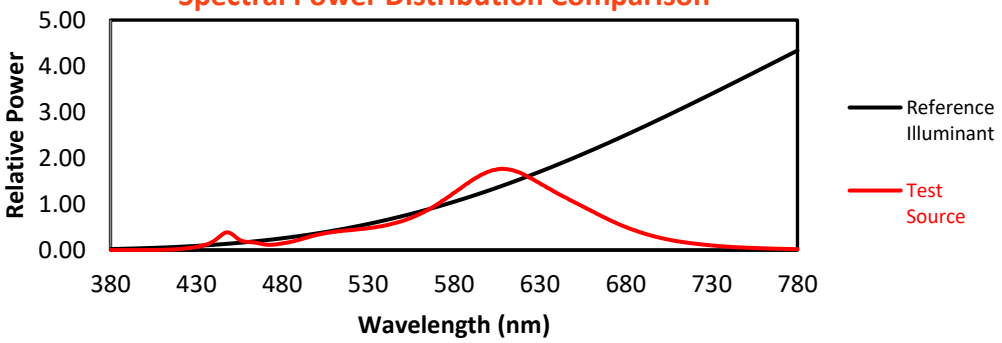
REPORT NUMBER: SP1-2501-332-7

TM-30-18

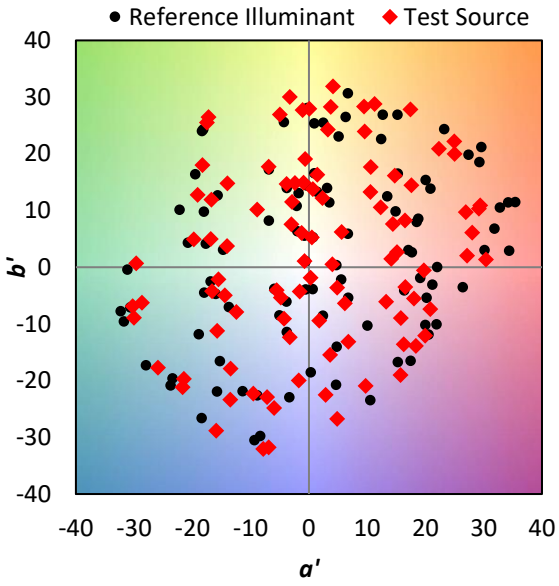
Summary

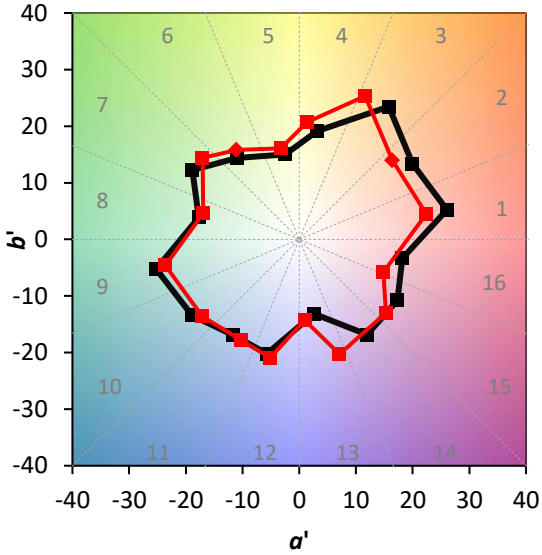
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

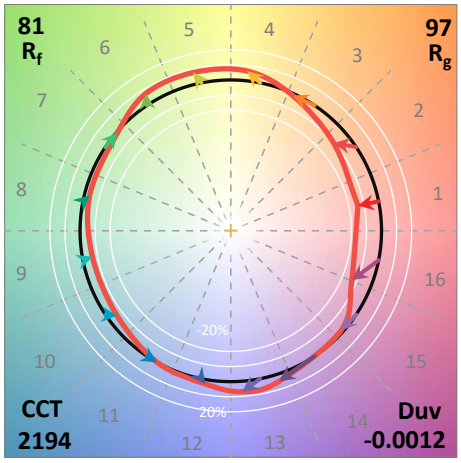
Spectral Power Distribution Comparison

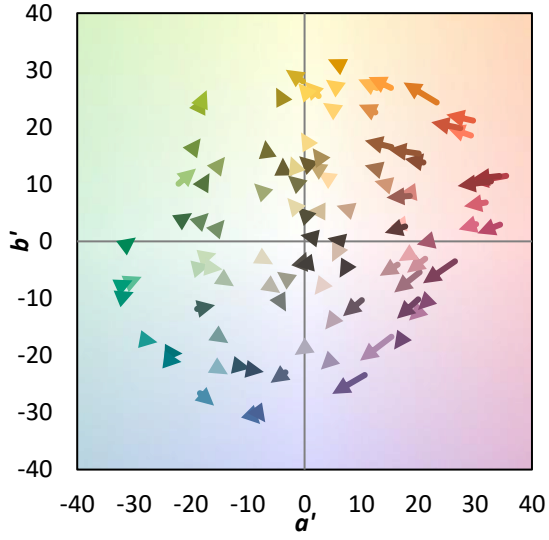


Color Vector Graphics







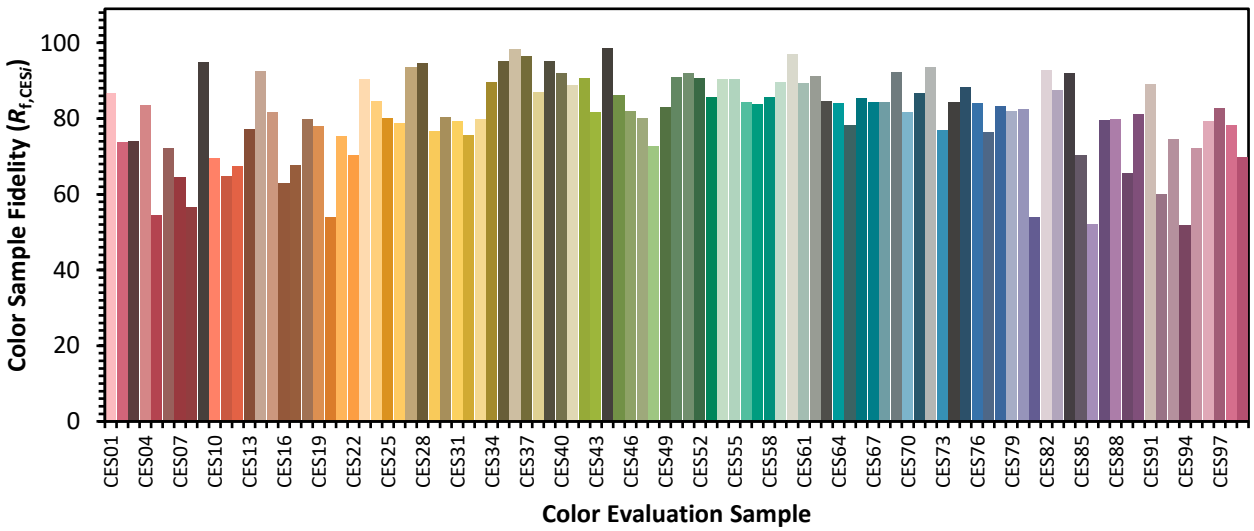


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

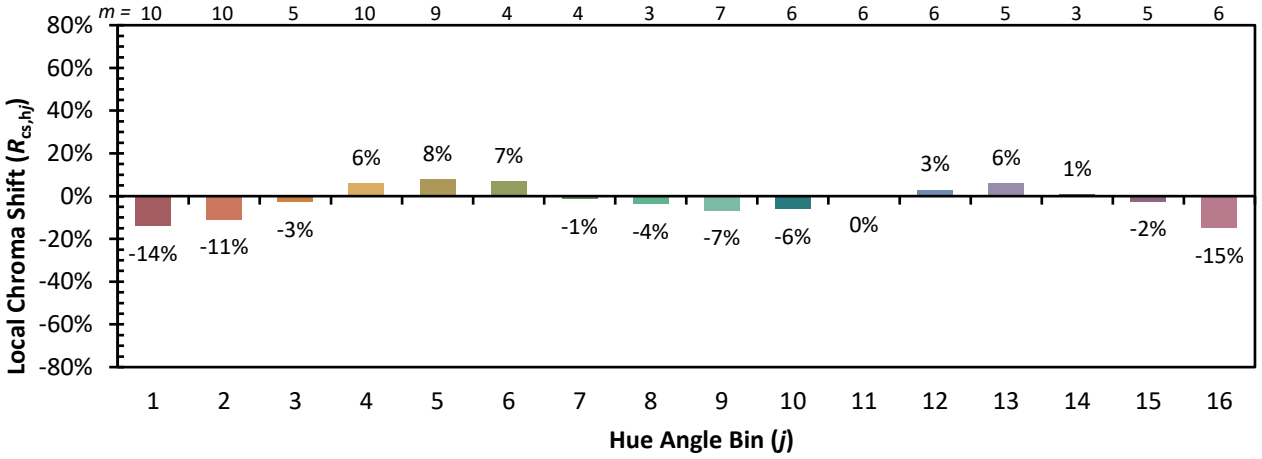
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

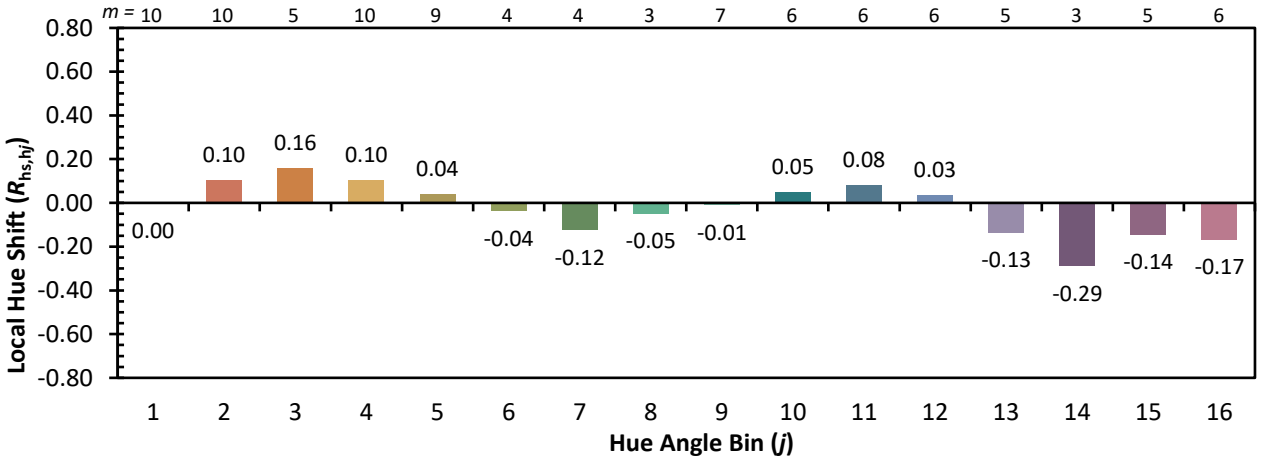


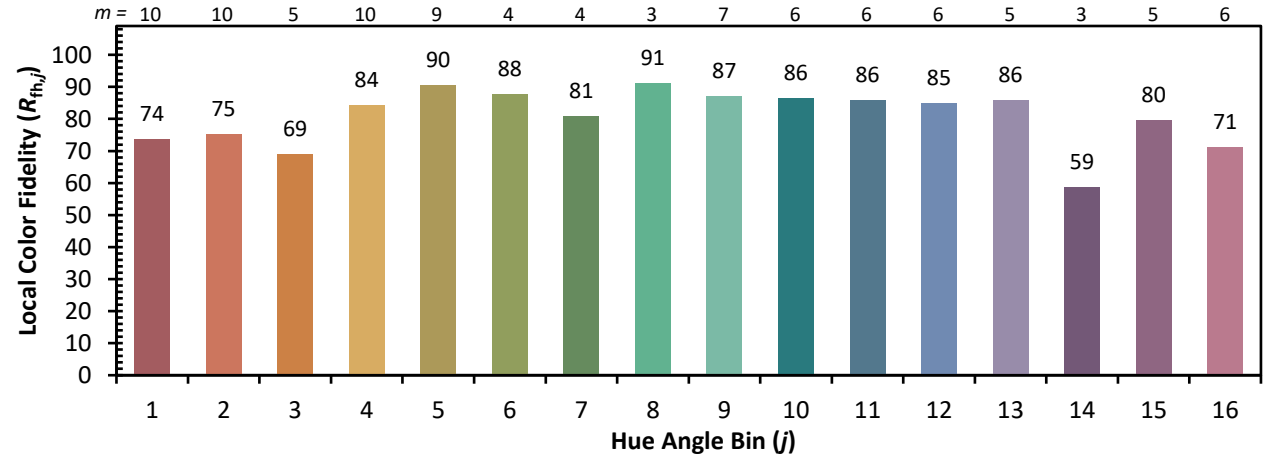
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Color Rendition by Hue-Angle Bin



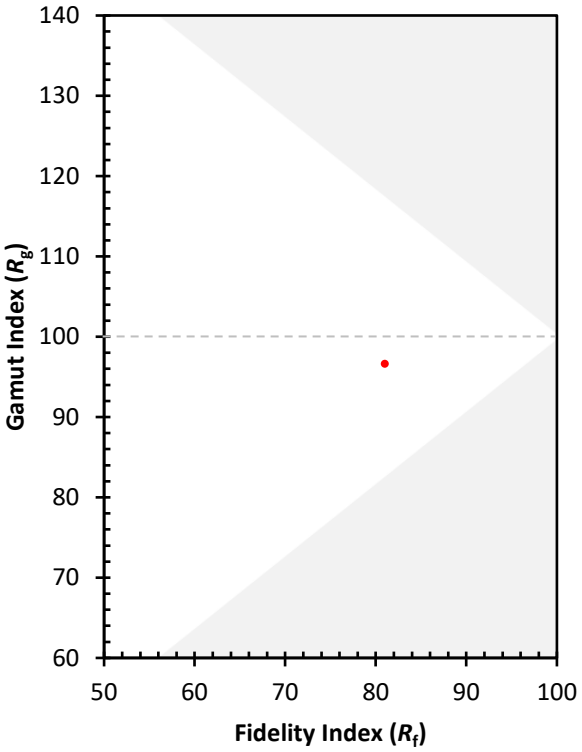


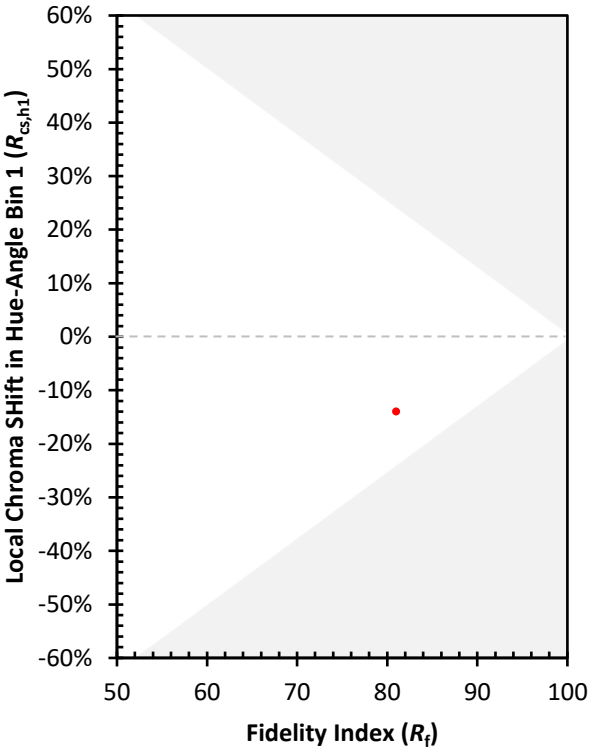


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Measure Comparisons





(END OF REPORT)