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: P1045828

Luminaire Tested: **FFX-CLB-40-722-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:	P1045828
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-722-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:	3612.1 lumens
Efficiency:	N/A
Efficacy:	91.7 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):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

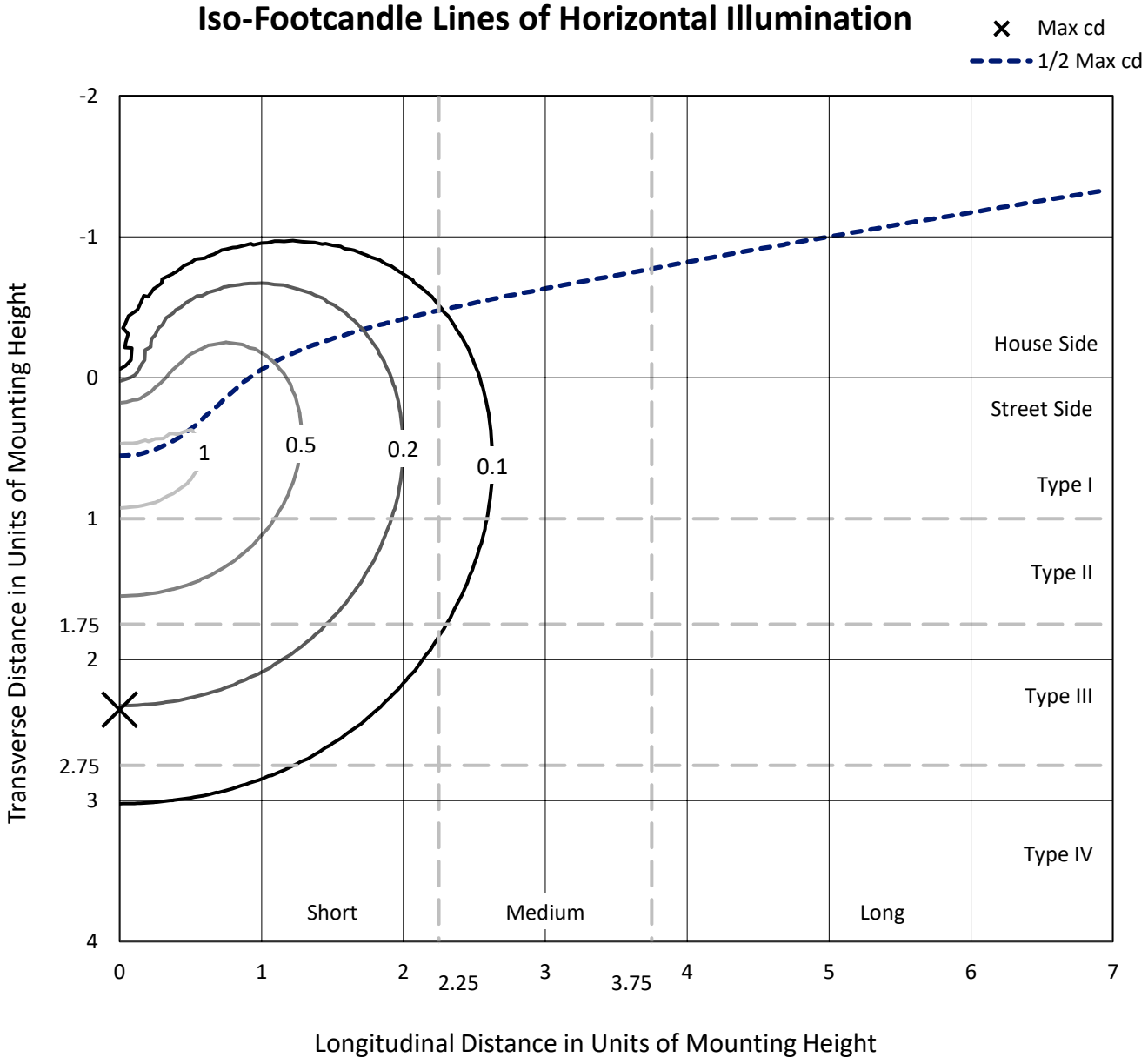


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Iso-Footcandle Lines of Horizontal Illumination



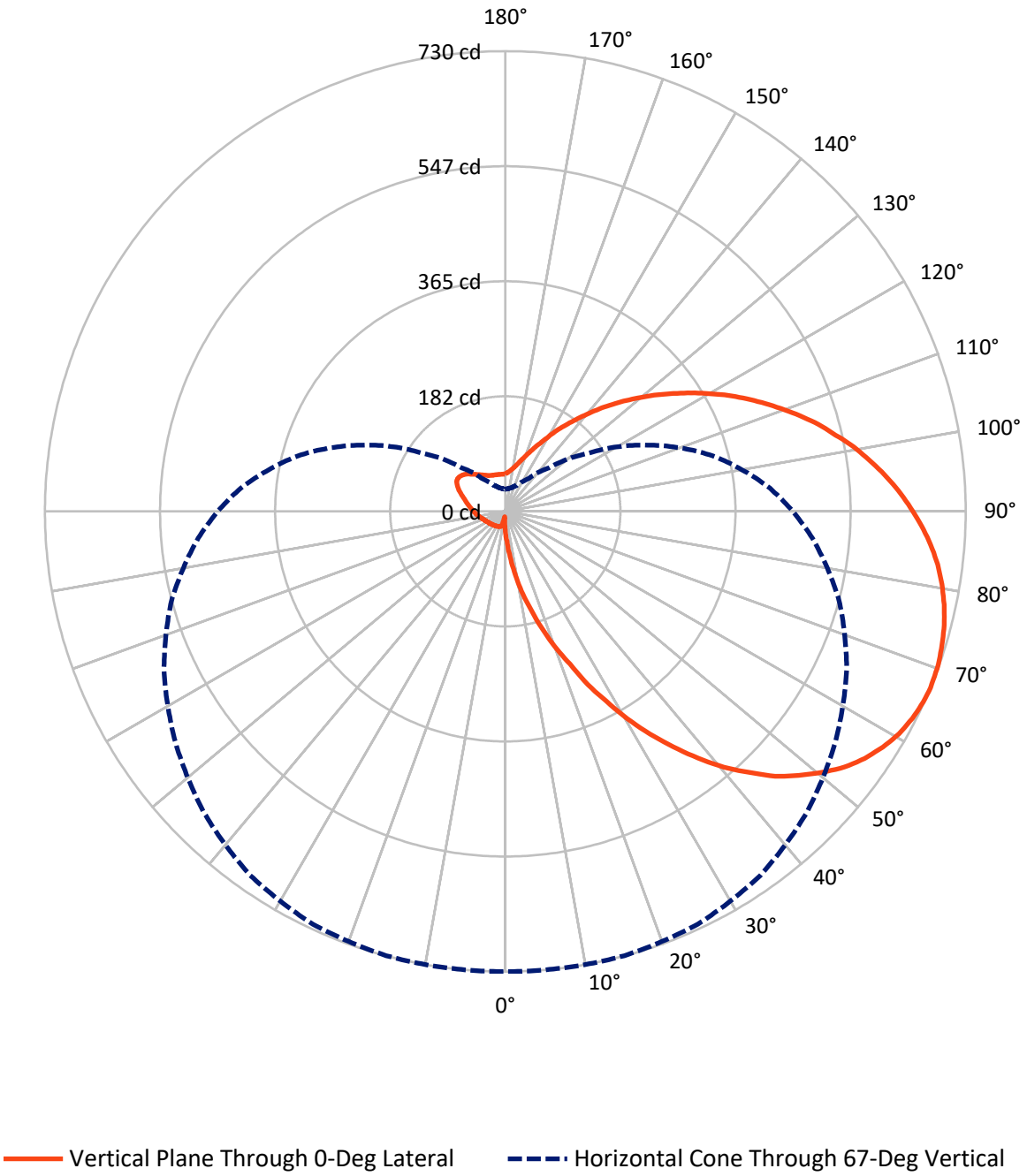
Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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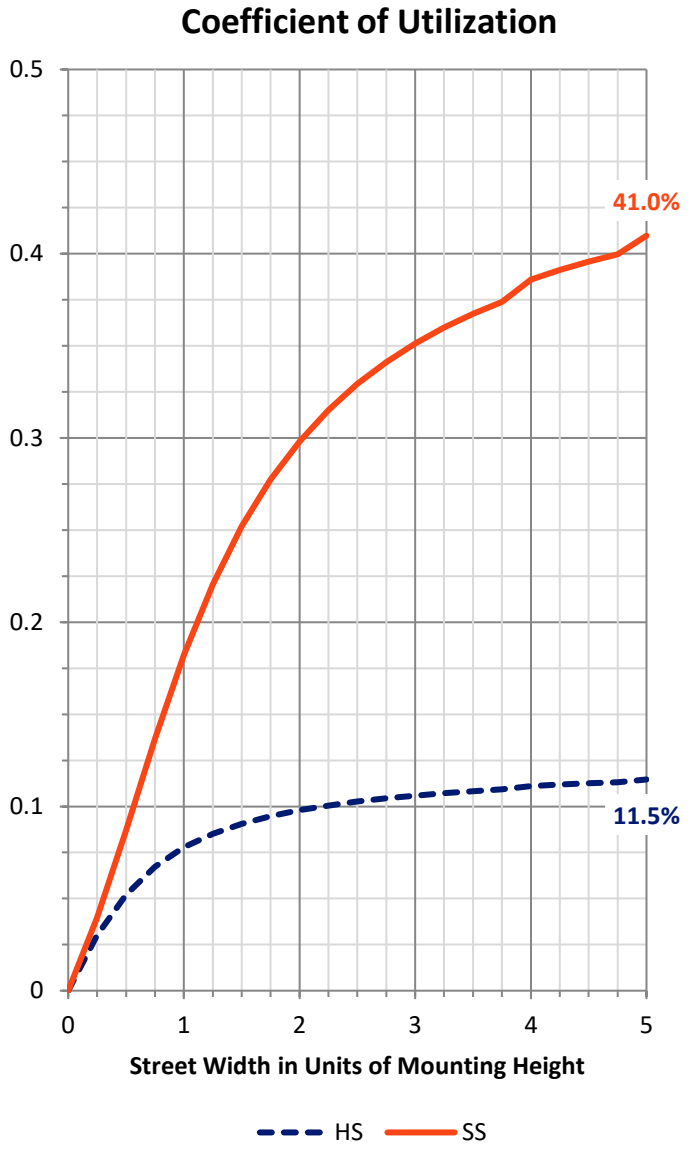
REPORT NUMBER: P1045828
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	447.3	426.2	873.4
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	1686.6	1052.1	2738.7
	% Fixture	46.7	29.1	75.8
Total	Lumens	2133.9	1478.2	3612.1
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.1
10°-20°	30.0	0.8
20°-30°	83.8	2.3
30°-40°	167.7	4.6
40°-50°	263.5	7.3
50°-60°	346.5	9.6
60°-70°	400.1	11.1
70°-80°	422.2	11.7
80°-90°	415.2	11.5
90°-100°	381.1	10.6
100°-110°	329.6	9.1
110°-120°	270.5	7.5
120°-130°	206.3	5.7
130°-140°	138.9	3.8
140°-150°	82.3	2.3
150°-160°	43.3	1.2
160°-170°	20.2	0.6
170°-180°	5.9	0.2
0°-90°	2133.9	59.1
0°-180°	3612.1	100.0



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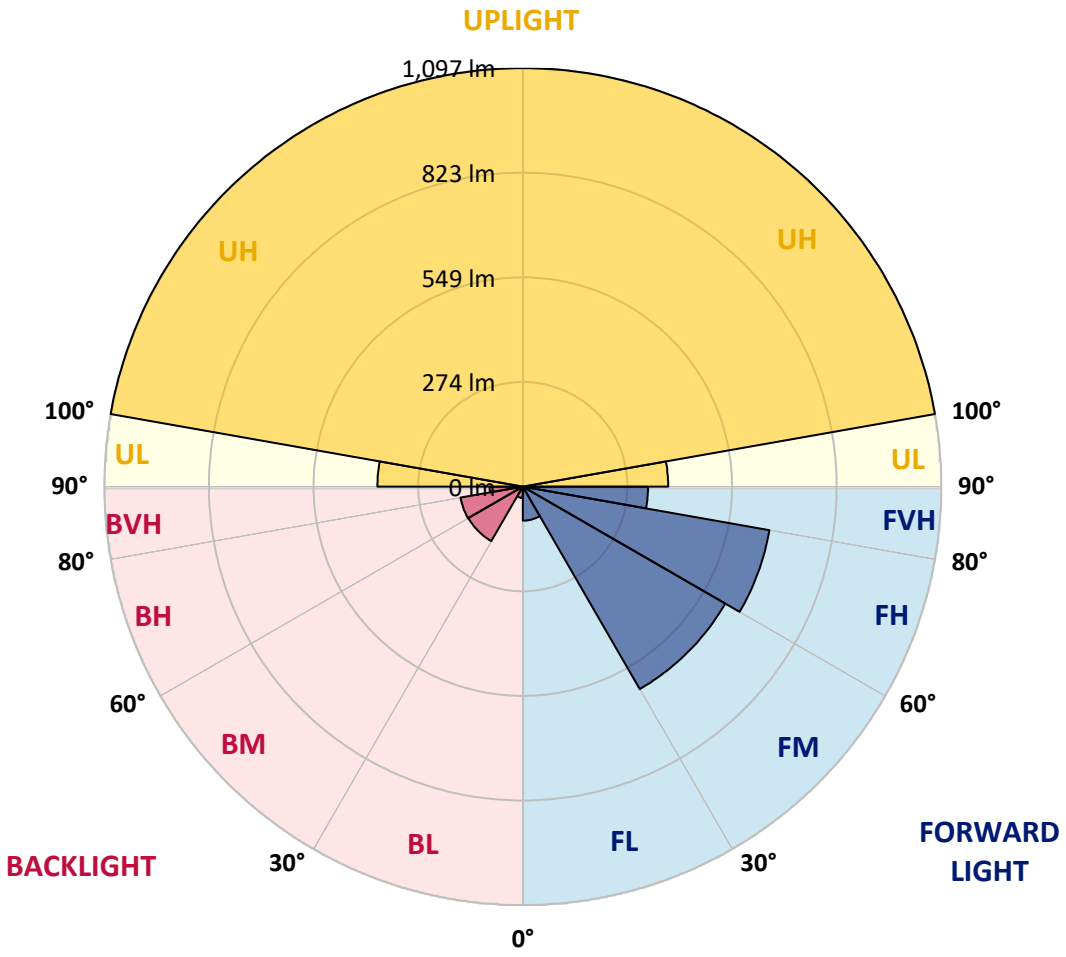
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	89.1	2.5			
FM	(30°-60°)	612.8	17.0			
FH	(60°-80°)	656.5	18.2			G0/660
FVH	(80°-90°)	328.2	9.1			G3/500
BL	(0°-30°)	29.5	0.8	B0/110		
BM	(30°-60°)	164.9	4.6	B0/220		
BH	(60°-80°)	165.8	4.6	B1/500		G1/500
BVH	(80°-90°)	87.1	2.4			G1/100
UL	(90°-100°)	381.1	10.6		U3/500	
UH	(100°-180°)	1097.1	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°	*35.2*	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
2.5°	*46.6*	47.4	47.4	47.0	46.6	45.8	45.1	43.5	40.3	37.9	35.6
5°	*67.6*	67.6	68.0	67.6	66.0	64.4	60.9	58.1	53.0	49.0	44.7
7.5°	*91.7*	92.9	92.5	91.3	88.5	85.0	80.6	75.5	70.3	64.4	57.7
10°	*118.6*	118.2	118.2	116.6	113.4	108.7	103.9	98.0	90.5	83.0	74.3
12.5°	*143.9*	145.0	144.2	142.3	138.3	134.8	128.8	122.1	113.4	105.5	93.7
15°	*171.1*	171.9	171.9	170.7	167.2	162.0	155.3	149.0	137.5	126.5	115.0
17.5°	*202.3*	201.2	199.6	199.6	195.2	190.9	184.2	175.5	162.8	150.6	135.2
20°	*233.6*	233.2	231.2	230.0	227.2	220.9	212.2	202.3	189.7	175.9	157.7
22.5°	*262.8*	266.8	266.4	264.4	260.8	254.5	245.0	233.2	220.1	202.7	181.8
25°	*304.3*	301.9	302.3	300.4	297.2	289.7	280.2	266.4	250.6	231.2	207.5
27.5°	*340.3*	339.5	339.5	338.3	333.9	326.0	315.0	301.9	283.8	260.8	234.4
30°	*381.8*	379.8	379.0	377.8	373.5	364.8	353.3	337.1	317.3	294.0	262.8
32.5°	*420.9*	419.3	416.5	416.1	413.0	403.9	390.9	374.3	351.7	324.5	290.1
35°	*458.4*	459.2	458.0	456.1	451.7	443.0	430.4	410.2	388.1	356.5	319.3
37.5°	*496.4*	496.0	496.8	495.2	488.5	480.2	465.2	443.8	418.5	384.1	345.0
40°	*533.5*	531.5	531.1	529.6	524.8	516.5	499.5	477.8	449.3	413.8	369.5
42.5°	*565.5*	566.3	565.5	564.0	557.6	548.1	530.4	506.3	476.2	437.9	392.4
45°	*599.1*	597.9	597.5	597.5	589.2	579.4	560.0	535.1	501.5	460.4	412.2
47.5°	*625.6*	627.2	626.4	624.4	618.9	606.6	586.1	558.8	523.6	481.4	430.0
50°	*650.5*	652.5	652.9	650.9	644.2	630.7	609.4	579.0	543.4	498.7	445.4
52.5°	*673.4*	673.0	674.2	673.0	666.7	652.9	628.4	597.5	559.2	513.4	457.2
55°	*691.2*	691.2	692.0	690.4	684.5	669.1	643.8	611.0	571.9	524.8	467.5
57.5°	*705.4*	706.2	705.8	705.4	698.7	682.5	655.6	621.7	582.1	533.1	475.0
60°	*716.5*	716.9	716.9	716.1	709.4	692.4	665.1	629.9	588.8	540.2	481.0
62.5°	*723.6*	724.0	724.0	723.2	716.5	699.1	671.4	635.1	593.6	544.6	484.9
65°	*728.0*	728.4	728.4	727.6	720.8	703.1	674.6	637.9	596.0	547.0	487.3
67°	*729.5*	*729.5*	*729.5*	*729.1*	*722.0*	*704.6*	*675.4*	*638.2*	*596.8*	*547.7*	*488.5*
67.5°	*729.1*	729.1	729.5	728.7	722.0	704.2	675.0	638.2	596.4	547.7	488.5
70°	*728.0*	728.0	728.0	727.2	720.5	702.7	673.4	636.3	595.2	547.0	488.1
72.5°	*723.6*	724.0	724.0	723.2	716.5	699.1	669.9	632.7	592.0	544.6	486.9
75°	*718.5*	718.5	718.5	717.7	711.0	693.6	664.7	628.0	588.1	541.4	484.5
77.5°	*711.0*	711.0	711.0	710.2	703.5	686.5	658.0	622.0	582.9	537.1	481.7
80°	*701.5*	701.9	701.5	700.7	694.0	677.0	649.7	614.5	576.2	531.9	477.8
82.5°	*690.4*	690.8	690.4	688.8	682.5	666.3	639.0	604.7	568.3	525.2	473.1
85°	*676.2*	675.8	676.2	673.8	668.3	652.1	627.2	593.6	558.4	517.3	466.3
87.5°	*660.0*	660.4	659.6	658.4	651.7	635.9	612.2	580.9	547.0	507.8	458.4
90°	*642.2*	642.2	641.8	640.2	633.1	618.9	596.4	566.3	534.7	497.2	450.1
92.5°	*624.0*	623.6	622.4	621.7	615.3	600.7	579.0	552.1	522.5	486.5	441.4
95°	*603.9*	603.9	603.1	601.5	594.4	582.5	561.6	536.3	508.2	475.0	432.3
97.5°	*582.5*	582.1	581.7	579.4	573.0	561.2	544.2	519.7	494.0	462.8	422.1
100°	*561.6*	560.4	559.6	557.2	551.7	540.2	524.0	502.7	477.8	449.3	411.0
102.5°	*537.1*	537.1	536.7	534.3	527.2	517.7	503.1	484.1	462.8	435.5	399.2
105°	*515.3*	513.4	512.6	510.2	504.7	494.4	482.1	465.5	445.8	420.5	387.3
107.5°	*490.8*	489.3	488.9	485.3	481.0	471.5	461.2	445.8	429.2	406.7	375.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*465.9*	465.2	464.8	461.2	455.7	449.3	438.7	426.4	411.8	391.2	363.6
112.5°	*441.4*	440.6	440.6	437.9	432.7	424.8	417.3	406.7	393.6	375.8	350.1
115°	*417.3*	416.1	415.8	412.6	407.5	401.5	394.0	386.5	375.4	360.4	337.1
117.5°	*393.2*	391.6	392.0	389.3	385.3	379.4	372.3	367.1	357.7	343.8	324.1
120°	*368.3*	368.7	368.7	365.2	361.6	356.9	350.9	345.8	339.5	327.2	309.0
122.5°	*344.6*	345.4	345.4	343.0	338.7	334.3	330.4	325.6	320.1	310.6	294.4
125°	*320.9*	322.5	321.7	319.7	316.2	311.4	308.7	304.7	300.4	292.4	278.2
127.5°	*299.2*	299.2	297.2	297.6	294.0	290.1	287.7	284.9	280.6	273.1	261.6
130°	*276.6*	277.0	277.4	275.1	271.9	268.7	266.4	265.2	261.6	255.3	243.8
132.5°	*256.1*	256.1	255.3	253.7	251.0	248.6	248.6	245.0	242.3	236.3	226.4
135°	*235.9*	235.5	235.5	234.0	232.0	230.8	228.0	226.4	223.7	218.2	210.6
137.5°	*216.2*	217.0	216.2	215.0	213.0	211.4	209.5	209.1	205.1	201.2	192.9
140°	*197.2*	198.4	197.2	196.8	195.2	193.3	192.1	190.5	189.3	184.2	177.0
142.5°	*179.4*	180.2	179.4	179.0	177.8	176.3	175.5	174.3	171.5	168.4	162.4
145°	*164.0*	163.6	163.6	163.2	161.6	160.5	159.3	158.5	156.9	153.7	147.0
147.5°	*149.0*	147.8	148.6	147.8	146.6	145.8	145.4	143.9	142.3	139.1	134.4
150°	*133.6*	134.4	134.0	133.6	132.4	132.4	131.2	130.0	128.8	125.3	122.1
152.5°	*120.9*	120.9	121.3	120.5	120.1	119.0	118.2	117.8	116.2	113.8	110.3
155°	*110.3*	109.9	109.9	109.9	109.1	107.9	107.5	106.7	105.9	103.1	100.0
157.5°	*100.0*	100.0	100.0	99.6	99.6	98.4	98.0	96.8	95.6	94.1	91.3
160°	*91.3*	91.3	90.9	90.9	90.5	90.1	89.3	88.1	87.3	86.2	83.8
162.5°	*84.2*	83.8	83.8	83.4	83.0	82.2	81.8	81.4	80.2	79.0	77.1
165°	*77.5*	77.5	77.5	77.1	76.7	76.3	75.9	75.1	74.3	73.5	72.3
167.5°	*72.3*	72.3	72.3	71.9	71.9	71.5	71.1	70.3	69.6	68.8	68.0
170°	*68.4*	68.4	68.4	68.0	67.6	67.2	66.8	66.4	66.0	65.2	64.8
172.5°	*65.2*	65.2	65.2	65.2	64.4	64.0	63.6	63.6	63.2	62.8	62.4
175°	*62.4*	62.4	62.4	62.4	62.0	61.7	61.3	61.3	60.9	60.5	60.1
177.5°	*60.9*	60.9	60.9	60.5	60.5	60.1	59.7	59.7	59.3	59.3	58.9
180°	*58.9*	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
2.5°	34.0	32.4	29.6	27.3	25.3	23.3	22.1	20.9	20.9	21.3	20.6
5°	41.1	38.3	33.2	27.7	22.9	19.0	15.8	13.0	10.7	9.5	9.5
7.5°	54.5	51.4	44.3	37.1	30.4	24.1	19.0	14.6	11.1	9.1	8.7
10°	70.0	66.4	56.5	47.8	39.5	31.6	24.9	19.0	15.0	13.0	12.6
12.5°	87.7	83.0	71.1	60.1	49.4	39.5	31.2	24.5	20.6	18.6	18.2
15°	108.3	100.8	87.3	73.5	59.7	47.4	37.5	30.0	25.7	22.9	22.9
17.5°	126.9	119.0	102.8	85.0	69.2	54.9	43.1	34.0	28.1	25.3	24.9
20°	148.2	137.5	118.2	97.6	78.2	60.9	46.6	36.4	29.2	25.7	25.7
22.5°	169.9	158.9	135.2	110.3	86.9	66.4	50.2	37.9	30.0	26.1	25.7
25°	195.6	180.6	152.2	124.1	96.8	72.3	53.4	39.5	30.8	26.9	26.1
27.5°	220.5	205.1	171.9	137.9	105.9	78.2	56.1	41.1	31.6	27.3	26.9
30°	246.6	227.6	190.1	152.2	115.4	83.4	58.9	42.3	32.0	27.7	26.9
32.5°	272.7	251.7	210.2	166.0	124.5	88.1	61.3	43.1	32.8	28.1	27.3
35°	299.2	276.6	229.6	179.8	132.8	92.5	62.8	43.9	33.2	28.1	27.7
37.5°	322.1	298.4	247.8	192.5	139.9	96.0	64.4	44.7	33.2	28.5	28.1
40°	345.0	319.3	263.6	203.1	146.2	98.8	65.6	45.1	33.6	28.8	28.5
42.5°	365.6	337.1	277.4	212.6	151.4	100.8	66.0	45.1	34.0	29.2	28.8
45°	384.1	355.3	290.5	221.7	155.7	102.0	66.4	45.4	34.4	29.6	29.2
47.5°	401.1	370.3	302.3	229.2	159.3	103.1	66.4	45.4	34.8	30.4	29.6
50°	415.4	382.9	312.2	235.5	161.6	103.5	66.0	45.4	35.2	30.8	30.4
52.5°	426.4	393.6	320.5	239.9	163.2	103.1	65.6	45.4	35.6	31.2	30.8
55°	435.9	402.3	326.4	243.4	163.6	102.4	65.2	45.4	36.0	32.0	31.6
57.5°	443.0	408.6	331.6	246.2	164.0	101.6	64.4	45.4	36.4	32.4	32.0
60°	448.6	414.2	335.5	247.8	163.6	100.4	64.0	45.4	36.8	33.2	32.8
62.5°	452.5	417.3	337.9	248.2	162.4	99.2	63.2	45.4	37.1	34.0	33.6
65°	454.9	419.7	339.9	248.6	161.2	98.0	62.8	45.8	37.9	35.2	34.8
67°	*455.7*	*420.9*	*340.3*	*248.6*	*160.5*	*97.2*	*62.8*	*46.2*	*38.7*	*35.6*	*35.2*
67.5°	456.1	420.9	340.3	248.2	160.1	97.2	62.8	46.2	38.7	36.0	35.6
70°	455.7	420.9	340.3	247.4	158.9	96.4	62.4	47.0	39.9	37.1	36.8
72.5°	454.9	420.1	339.5	246.2	157.3	95.6	62.8	47.8	41.1	38.3	37.9
75°	452.9	418.5	337.9	244.6	156.1	94.8	63.2	48.6	42.3	39.9	39.5
77.5°	450.9	416.5	336.7	243.0	154.9	94.8	63.6	49.8	43.9	41.5	41.1
80°	447.4	413.8	334.3	241.5	153.7	94.5	64.4	51.4	45.4	43.1	42.7
82.5°	443.0	409.8	331.2	239.1	152.5	94.5	65.6	52.6	47.0	44.7	44.3
85°	437.1	404.7	327.2	235.9	151.4	94.8	66.4	54.1	48.6	46.6	46.2
87.5°	430.4	398.4	322.5	233.2	150.2	94.8	67.6	55.7	50.2	48.2	48.2
90°	422.5	391.6	317.0	230.0	149.0	95.6	69.2	57.3	52.2	50.2	50.2
92.5°	415.4	384.5	312.6	226.8	148.2	96.4	70.7	59.3	54.1	52.2	52.2
95°	405.9	377.0	306.3	224.1	147.8	97.2	72.3	61.3	56.5	54.5	54.1
97.5°	396.8	368.7	300.7	220.9	147.4	98.8	74.3	63.6	58.5	56.5	56.5
100°	386.9	360.4	294.4	218.2	147.4	100.8	77.1	66.0	61.3	59.3	58.9
102.5°	377.4	351.3	288.1	215.4	148.2	102.8	79.8	68.8	64.0	62.0	61.7
105°	366.7	341.8	282.6	213.0	149.0	105.5	83.0	72.3	67.2	65.2	64.8
107.5°	356.1	333.2	276.2	211.0	150.6	109.1	86.9	75.9	70.7	68.4	68.0

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

Scaled Data Report

REPORT NUMBER: P1045828
CATALOG NUMBER: FFX-CLB-40-722-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	344.6	323.7	270.7	209.5	152.9	113.0	91.3	80.6	74.7	72.3	71.9
112.5°	333.9	314.2	264.8	208.3	155.3	117.8	96.4	85.0	79.4	76.3	75.9
115°	322.1	304.3	259.3	207.1	158.1	122.5	102.0	89.7	83.8	80.6	80.6
117.5°	310.6	294.0	252.9	205.9	160.8	127.6	107.1	94.8	88.1	85.0	84.6
120°	297.2	283.0	246.2	203.5	162.4	131.6	111.4	99.2	91.7	88.5	88.1
122.5°	283.8	270.7	237.5	200.0	162.8	134.0	114.6	102.8	94.8	91.3	90.9
125°	268.3	257.3	228.4	194.4	161.6	135.2	116.6	103.9	96.0	92.1	91.7
127.5°	253.3	242.7	217.8	187.7	158.5	134.0	116.2	103.9	96.0	91.7	91.3
130°	237.1	227.6	205.1	179.4	153.3	131.2	114.6	102.4	94.5	90.1	89.7
132.5°	220.5	212.6	192.9	170.3	147.0	126.9	111.1	99.6	91.7	87.7	87.3
135°	204.3	197.2	180.2	160.1	140.3	121.7	107.1	96.0	88.1	84.6	84.6
137.5°	188.9	182.2	167.2	150.2	132.4	115.8	102.4	91.7	85.0	81.4	80.6
140°	173.1	167.6	154.5	139.5	124.1	109.5	97.2	87.3	81.0	77.9	77.5
142.5°	158.5	153.7	142.7	130.4	116.2	103.5	92.1	83.8	77.9	74.7	74.3
145°	144.6	140.3	130.8	119.7	108.3	97.2	86.9	79.4	74.3	71.9	71.5
147.5°	130.8	128.0	120.1	111.1	100.4	90.5	82.2	75.9	71.1	69.2	68.8
150°	119.4	115.8	109.9	101.6	93.3	85.0	77.9	72.3	68.8	66.8	66.8
152.5°	107.9	105.9	100.0	93.7	86.5	79.8	73.5	69.2	66.4	64.8	64.8
155°	99.2	96.4	91.3	86.2	80.2	74.7	70.3	66.8	64.4	63.2	62.8
157.5°	90.1	88.5	84.6	79.8	75.5	71.1	67.6	64.8	62.8	62.0	61.7
160°	82.6	81.4	78.2	74.7	71.1	68.0	65.2	63.2	61.7	60.9	60.9
162.5°	76.3	75.5	72.7	70.3	67.6	65.2	63.2	61.7	60.9	60.5	60.5
165°	71.5	70.7	68.8	66.8	65.2	63.2	62.0	60.9	60.1	60.1	60.1
167.5°	67.6	66.8	65.6	64.4	63.2	61.7	60.9	60.1	60.1	59.7	59.7
170°	64.4	64.0	62.8	62.0	61.3	60.5	60.1	59.7	59.3	59.3	59.3
172.5°	62.0	61.7	60.9	60.5	59.7	59.3	59.3	59.3	59.3	59.3	59.3
175°	60.1	59.7	59.7	59.3	58.9	58.9	58.5	58.9	58.9	58.9	58.9
177.5°	58.9	58.9	58.5	58.5	58.5	58.5	58.5	58.9	58.9	59.3	59.3
180°	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9

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: SP1-2501-332-7

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

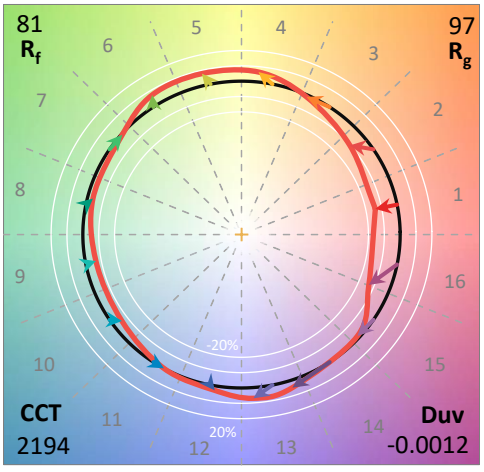
Test Information

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

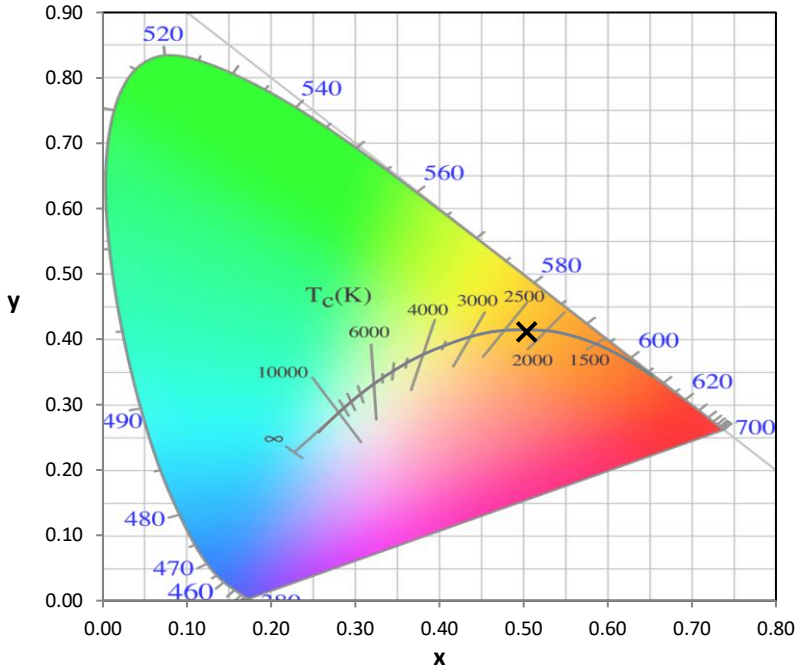
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

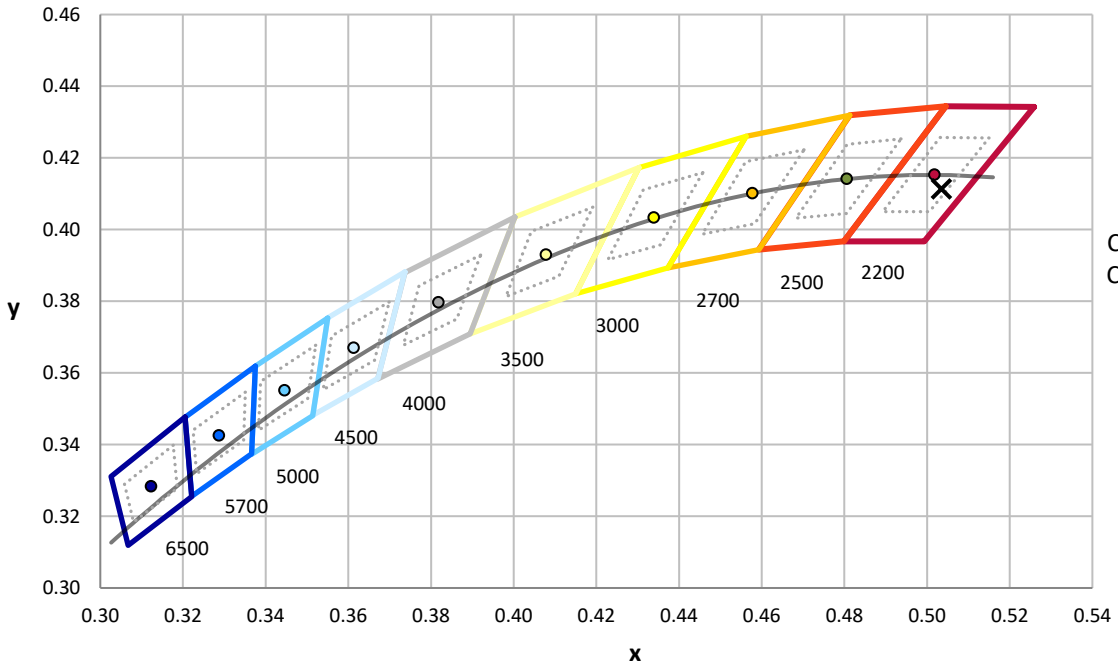
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

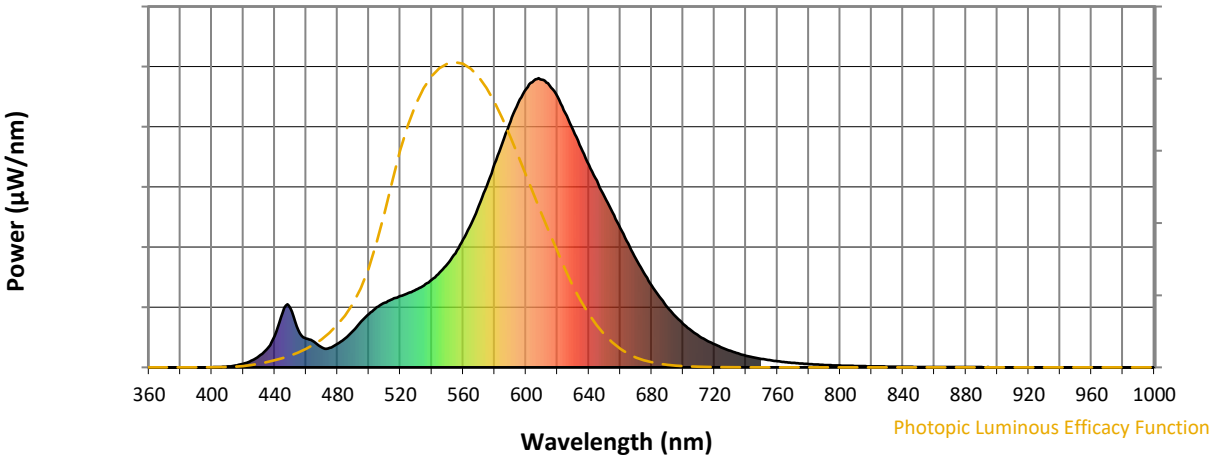


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

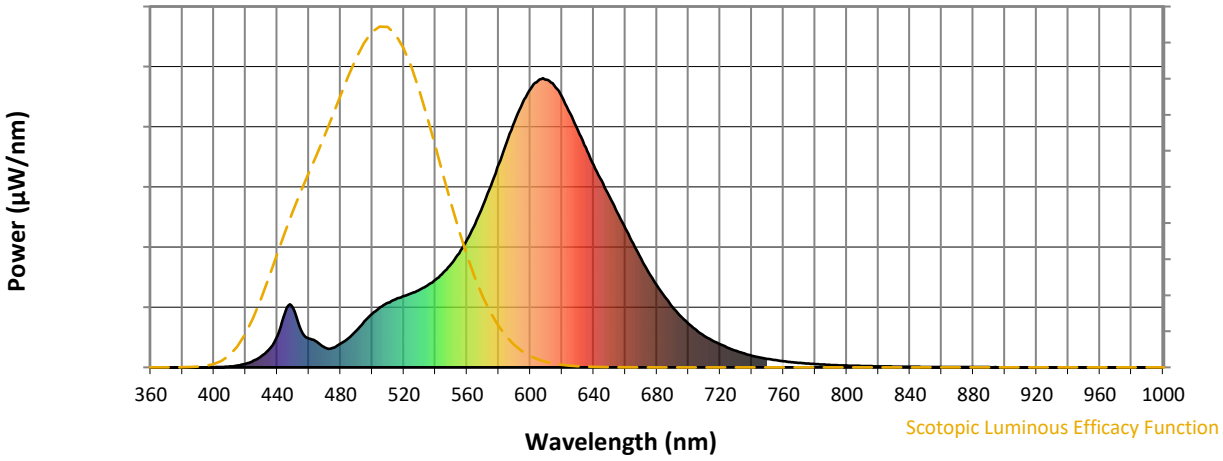


Photopic Lumens: NR

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

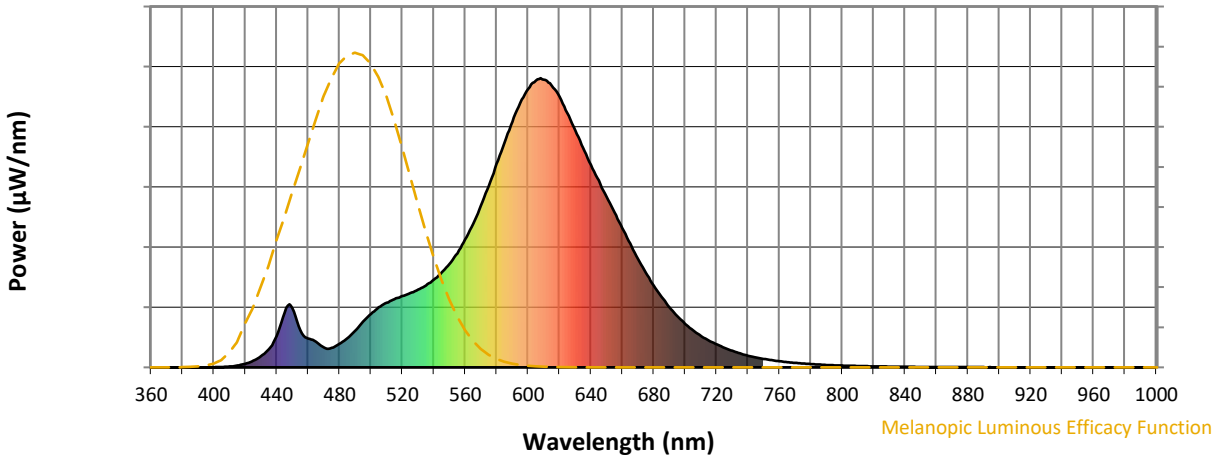


Scotopic Lumens: NR **S/P: 0.96**

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			

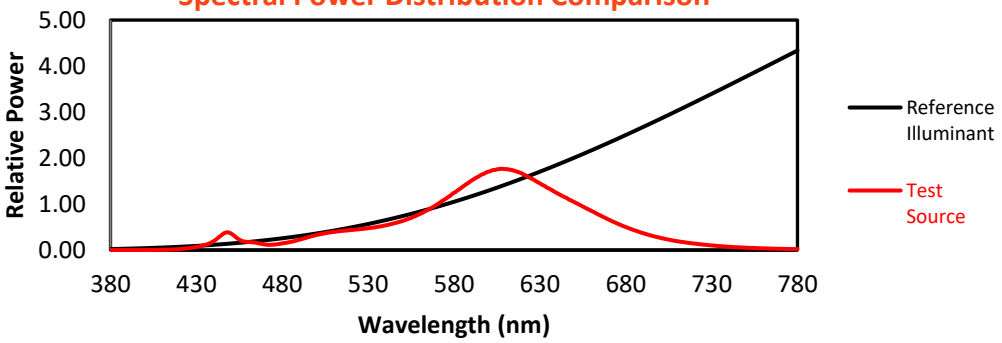
REPORT NUMBER: SP1-2501-332-7

TM-30-18

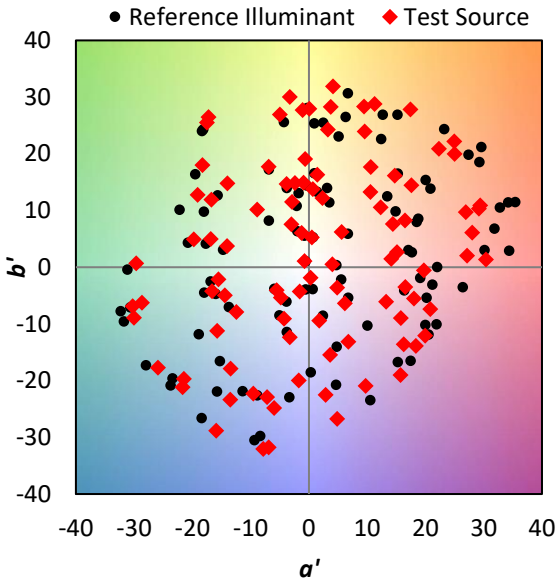
Summary

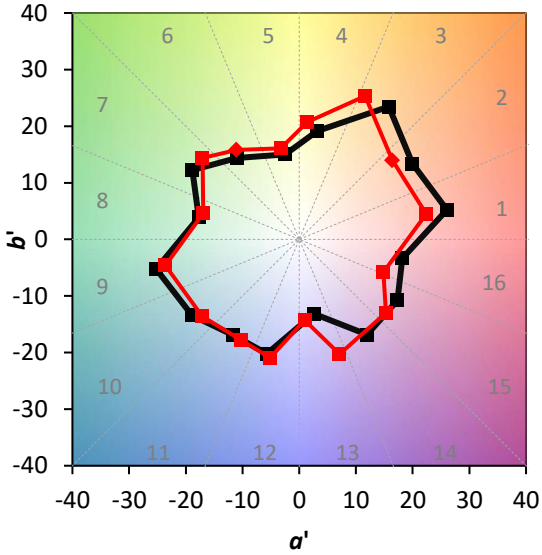
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

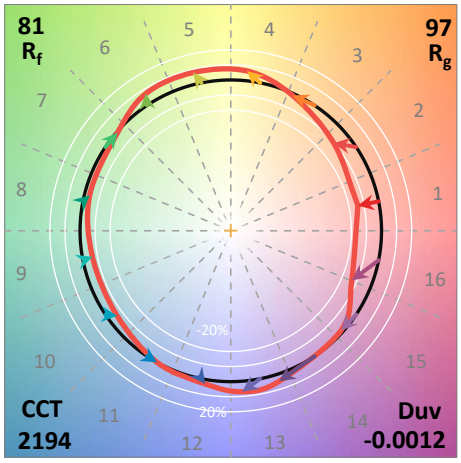
Spectral Power Distribution Comparison

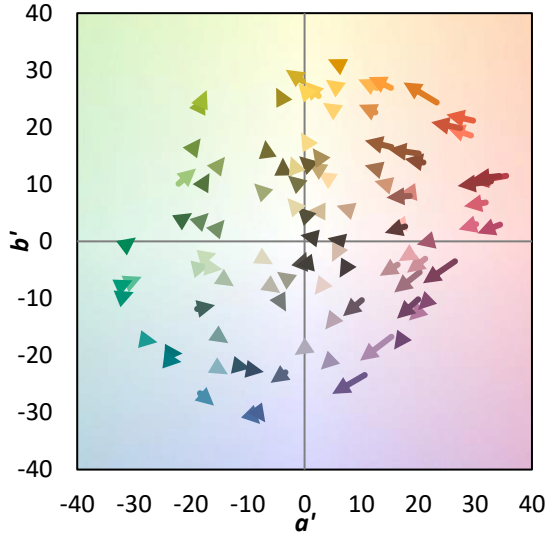


Color Vector Graphics







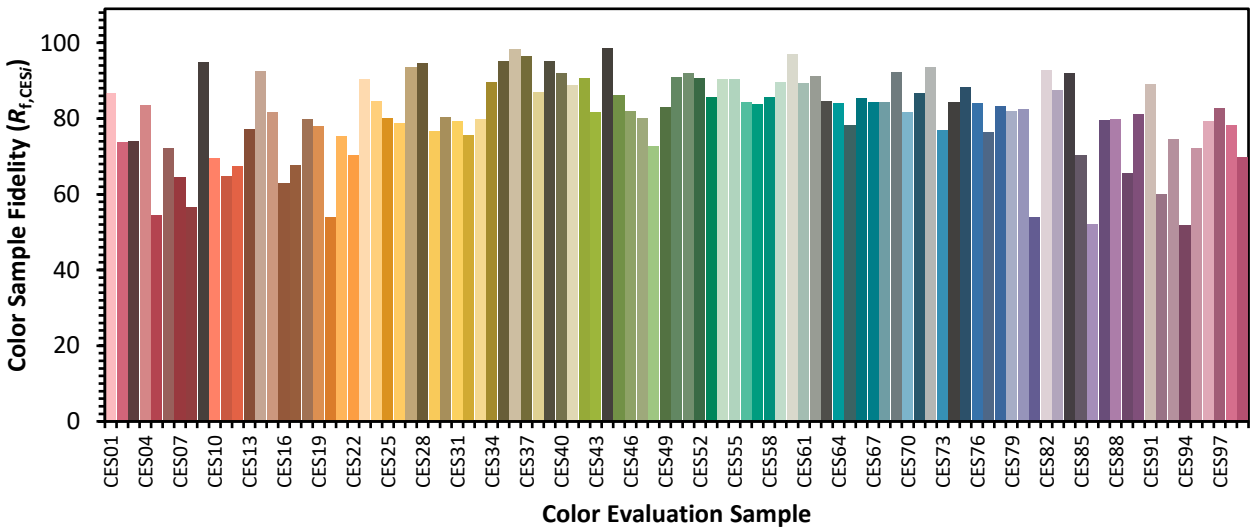


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

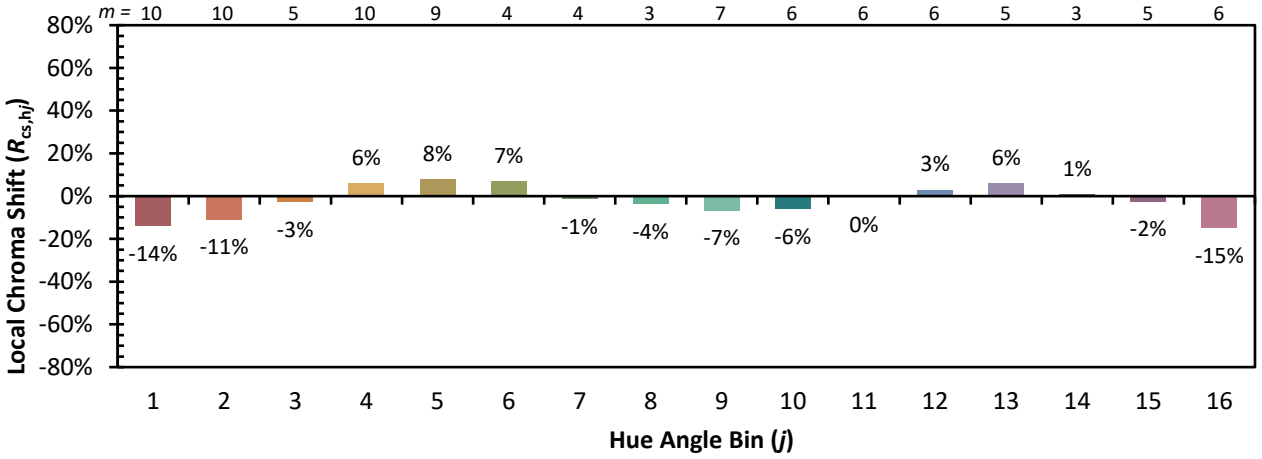
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 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	

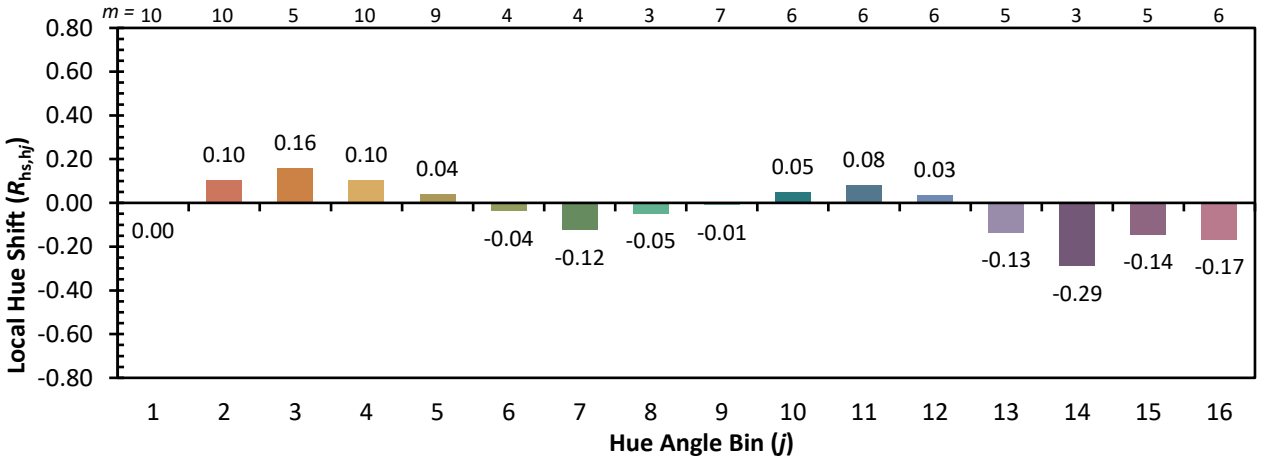


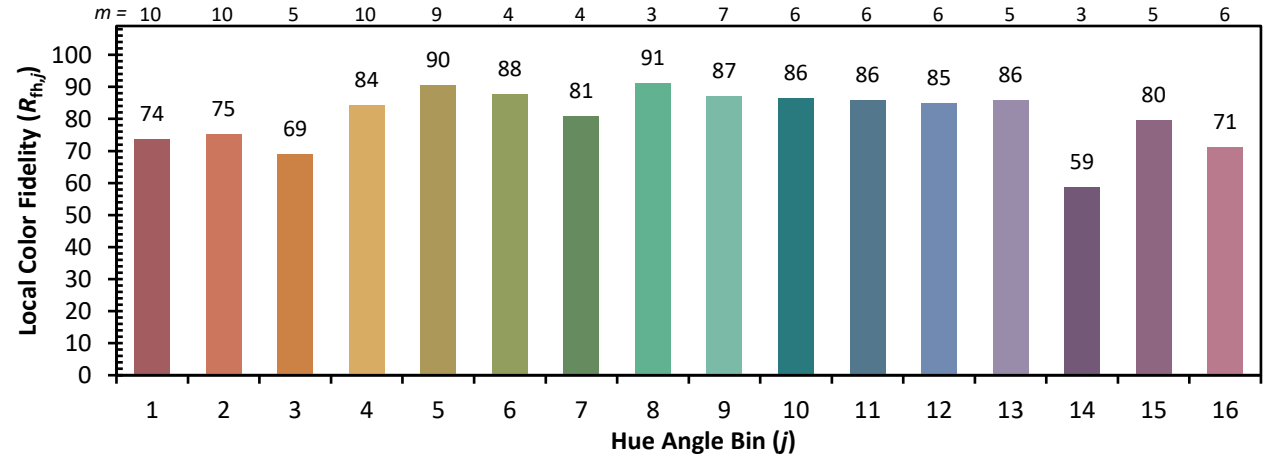
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Color Rendition by Hue-Angle Bin



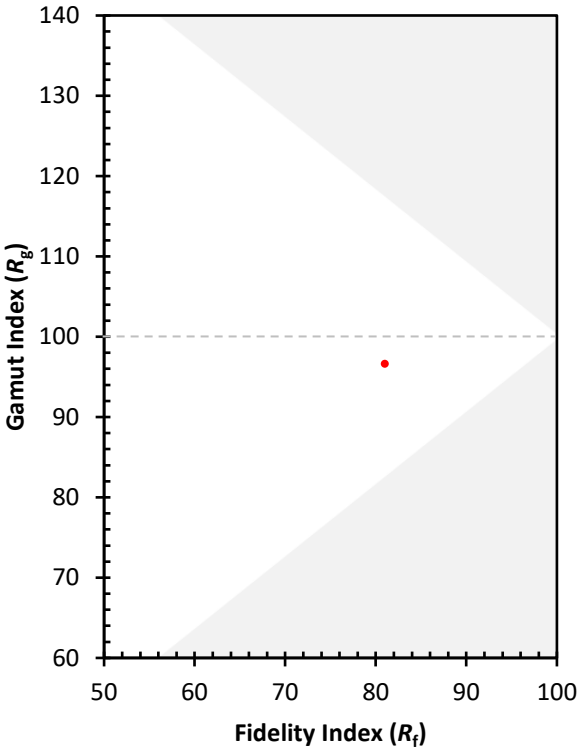


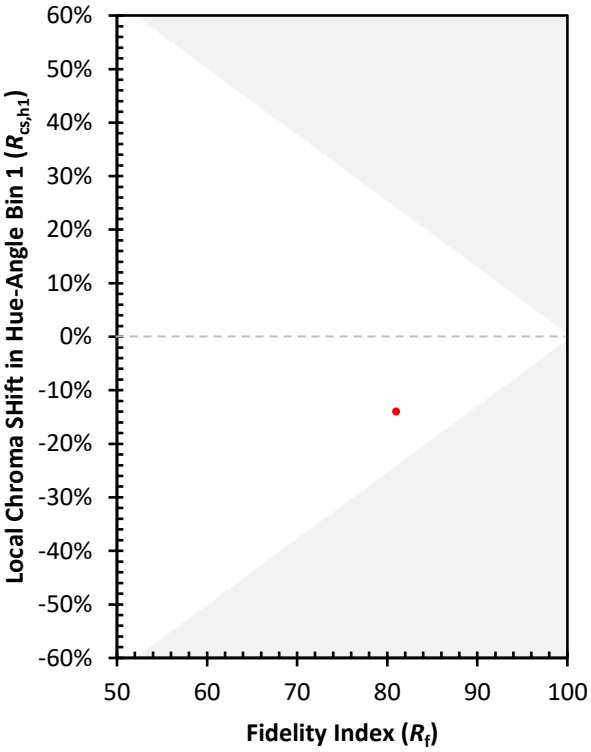


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Measure Comparisons





(END OF REPORT)