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: P1045882

Luminaire Tested: **FFX-CLB-40-727-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045882
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-727-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4046.1 lumens
Efficiency:	N/A
Efficacy:	102.7 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

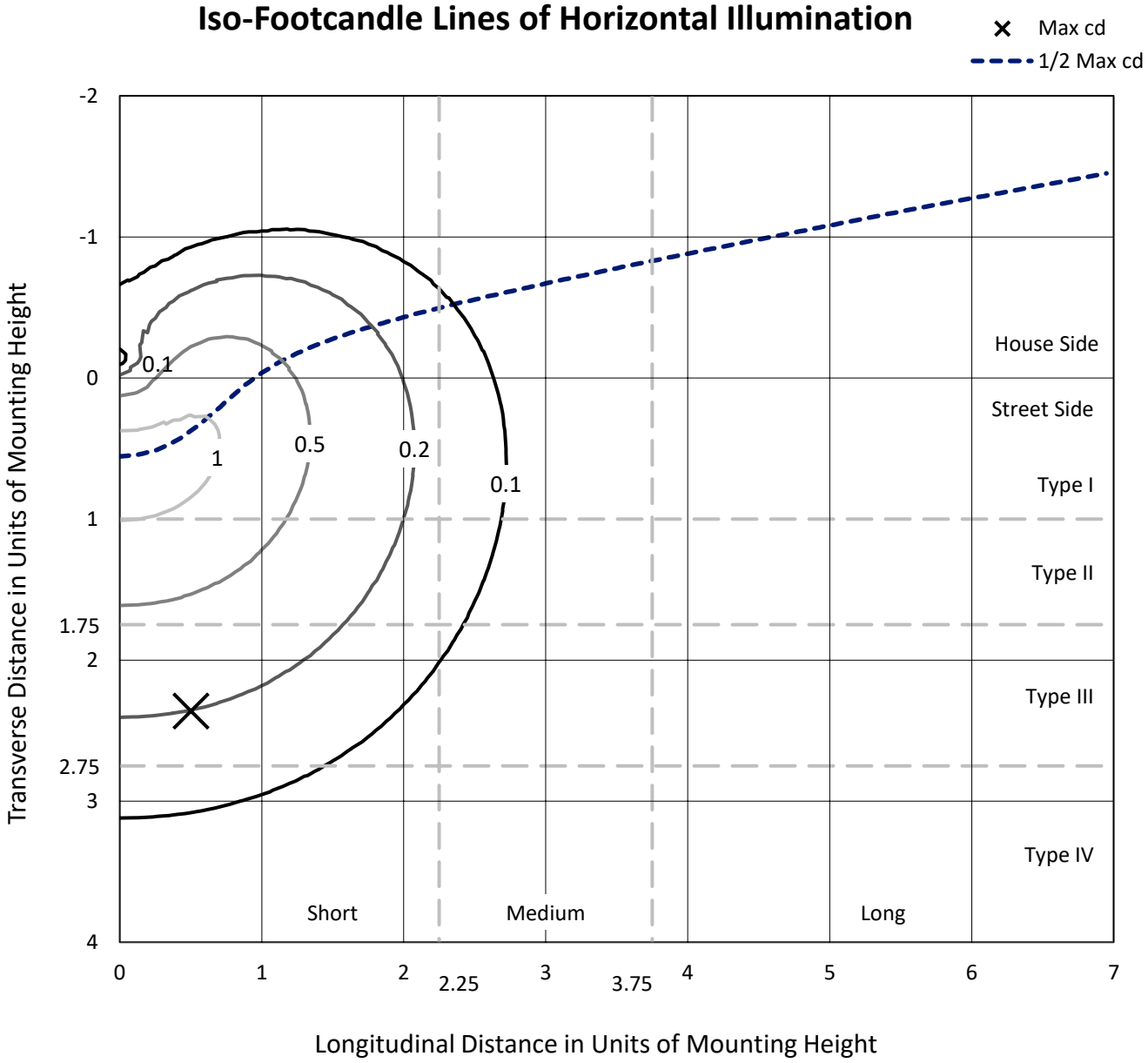


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Iso-Footcandle Lines of Horizontal Illumination



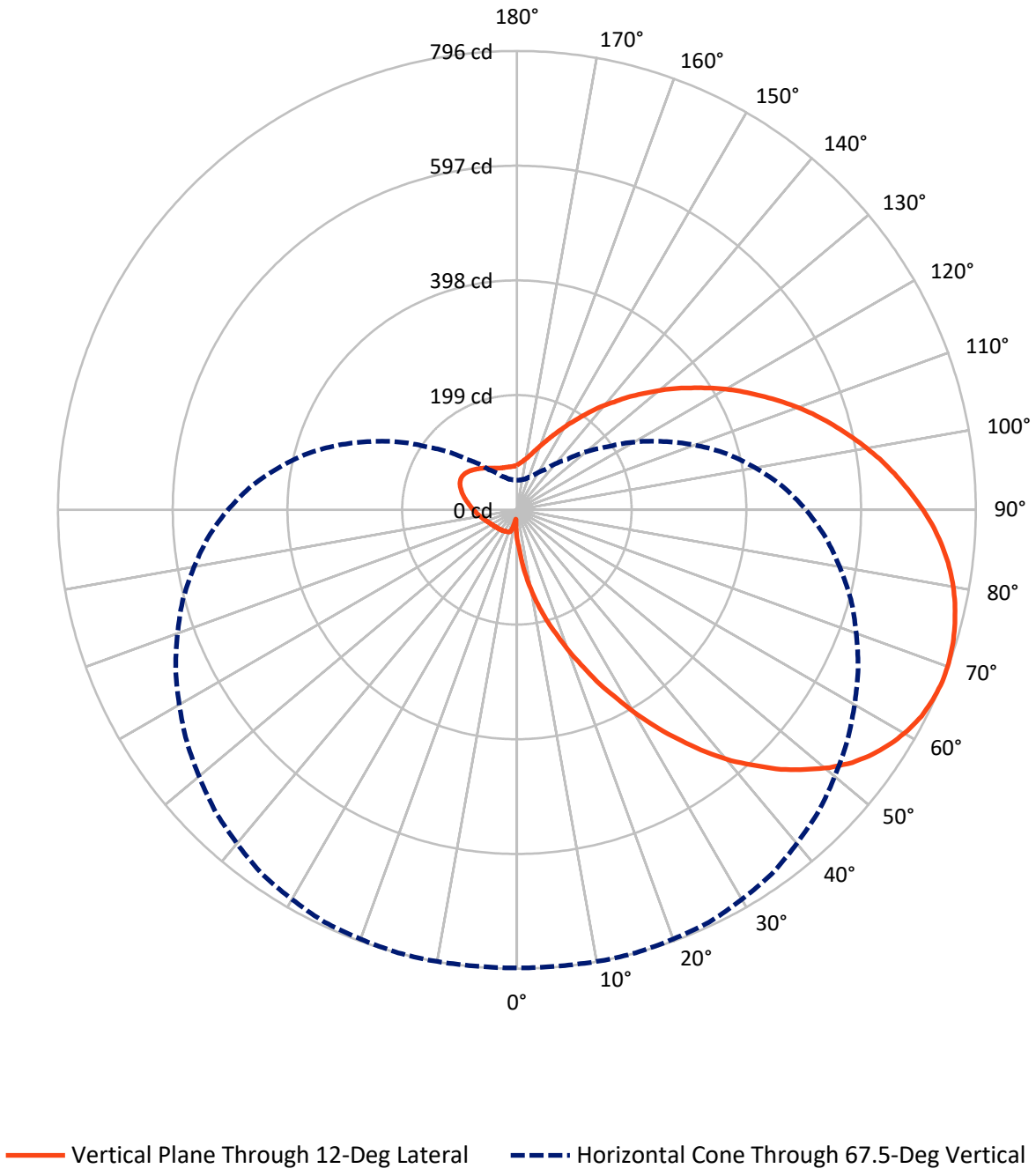
Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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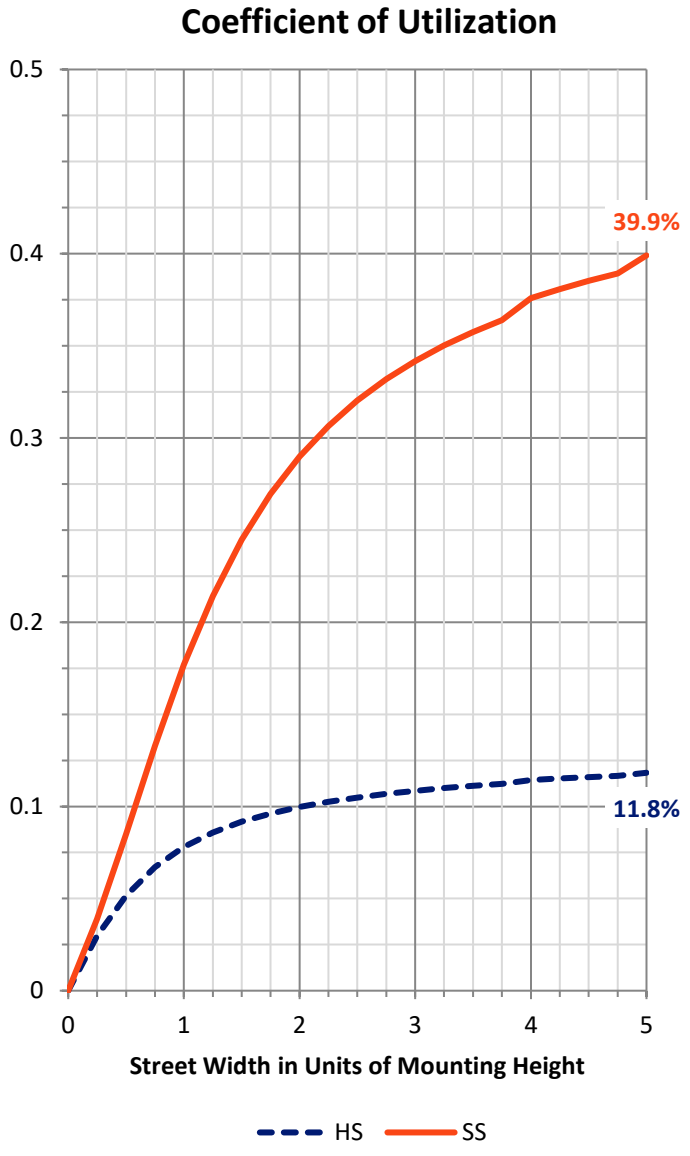
REPORT NUMBER: P1045882
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.7	504.0	1024.7
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	1841.0	1180.5	3021.4
	% Fixture	45.5	29.2	74.7
Total	Lumens	2361.7	1684.4	4046.1
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.2
10°-20°	36.0	0.9
20°-30°	93.9	2.3
30°-40°	182.2	4.5
40°-50°	286.2	7.1
50°-60°	379.8	9.4
60°-70°	442.6	10.9
70°-80°	470.3	11.6
80°-90°	464.3	11.5
90°-100°	428.1	10.6
100°-110°	373.6	9.2
110°-120°	307.2	7.6
120°-130°	232.6	5.7
130°-140°	158.8	3.9
140°-150°	97.4	2.4
150°-160°	53.4	1.3
160°-170°	25.8	0.6
170°-180°	7.6	0.2
0°-90°	2361.7	58.4
0°-180°	4046.1	100.0



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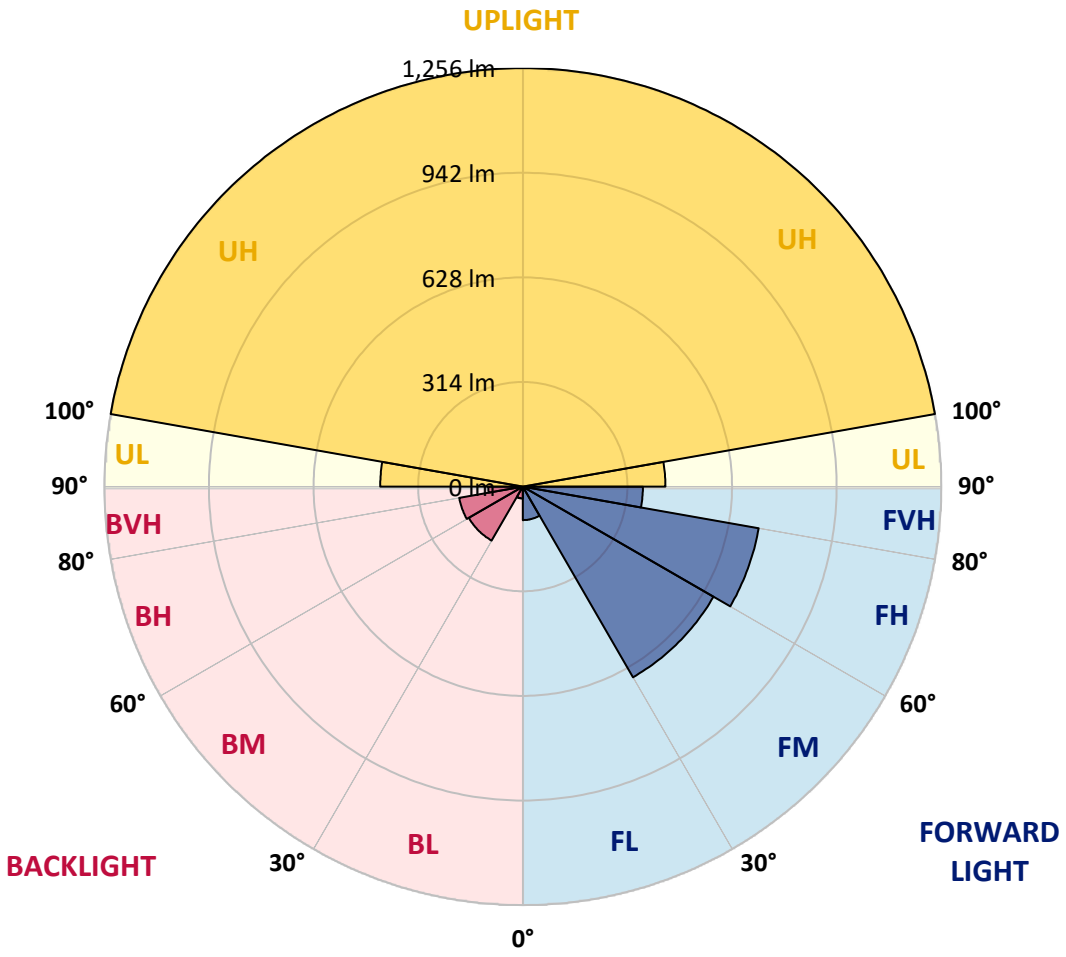
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	100.6	2.5			
FM	(30°-60°)	661.0	16.3			
FH	(60°-80°)	719.0	17.8			G1/1800
FVH	(80°-90°)	360.4	8.9			G3/500
BL	(0°-30°)	35.7	0.9	B0/110		
BM	(30°-60°)	187.2	4.6	B0/220		
BH	(60°-80°)	193.9	4.8	B1/500		G1/500
BVH	(80°-90°)	103.9	2.6			G2/225
UL	(90°-100°)	428.1	10.6		U3/500	
UH	(100°-180°)	1256.3	31.1		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	51.2	51.2	*51.2*	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2.5°	64.1	65.4	*64.1*	65.9	65.0	65.0	62.8	60.5	57.4	53.9	50.7
5°	90.8	90.4	*88.6*	90.4	88.6	86.4	82.8	77.0	71.2	65.9	59.2
7.5°	118.4	118.8	*117.5*	117.1	113.1	109.9	104.2	98.4	91.2	83.2	75.2
10°	148.2	147.3	*145.1*	145.6	141.1	134.9	128.2	121.5	113.5	104.2	93.9
12.5°	175.8	175.8	*174.0*	174.5	169.6	162.5	157.1	148.2	138.4	127.3	114.8
15°	205.2	203.4	*202.5*	202.5	197.6	191.4	185.6	175.8	164.2	151.8	137.5
17.5°	232.3	231.9	*231.0*	231.5	227.0	221.7	212.3	202.5	188.7	173.6	158.9
20°	267.1	265.3	*264.0*	261.7	259.1	251.9	243.0	230.1	216.3	199.9	180.3
22.5°	298.7	300.9	*297.3*	295.6	292.0	286.2	273.3	260.8	244.4	225.2	203.9
25°	335.2	337.0	*335.6*	333.4	328.5	320.5	308.5	294.7	275.1	253.3	227.9
27.5°	373.5	374.8	*371.2*	372.1	363.7	356.1	344.1	327.2	308.5	282.6	255.9
30°	411.3	414.0	*412.6*	409.5	402.4	395.7	381.5	363.7	342.3	313.8	283.1
32.5°	455.8	452.7	*453.1*	449.6	445.1	434.4	422.0	401.9	377.0	346.7	311.6
35°	497.2	495.9	*492.3*	494.1	486.5	476.7	461.1	439.8	412.6	379.2	340.5
37.5°	534.1	535.5	*533.2*	531.9	527.0	515.9	497.6	475.8	444.7	409.5	367.2
40°	572.0	572.9	*572.4*	572.4	565.7	553.3	534.6	510.1	478.1	440.2	394.4
42.5°	608.0	608.9	*606.7*	607.1	601.8	588.9	568.9	543.0	507.4	467.8	418.0
45°	642.7	642.7	*642.7*	642.3	634.7	622.7	602.2	572.9	537.3	492.3	439.8
47.5°	674.8	673.9	*673.5*	673.5	668.6	654.3	632.5	600.5	561.7	514.6	461.1
50°	703.3	703.7	*703.3*	702.4	694.8	683.2	658.8	625.4	584.4	535.9	478.9
52.5°	727.8	728.2	*728.7*	726.4	721.5	707.7	680.6	645.0	603.6	552.8	493.6
55°	747.3	748.2	*749.1*	748.2	743.3	726.9	699.7	663.7	619.2	567.1	506.5
57.5°	765.6	765.2	*765.6*	764.7	759.4	743.3	715.3	676.6	631.6	578.6	516.3
60°	778.1	778.5	*778.5*	778.5	772.3	755.8	726.0	686.4	640.5	587.5	524.8
62.5°	786.5	787.0	*788.3*	787.4	781.6	764.3	733.5	693.5	647.2	593.3	530.6
65°	792.3	792.7	*793.6*	792.7	787.4	769.6	738.4	697.9	651.6	597.8	534.6
67.5°	*795.0*	*795.0*	*796.3*	*795.9*	*789.6*	*771.4*	*740.2*	*699.7*	*653.4*	*600.0*	*537.3*
70°	793.6	794.1	*795.0*	794.5	788.3	770.0	738.9	698.8	653.0	600.0	537.7
72.5°	790.5	790.5	*791.4*	790.5	784.7	766.5	735.8	696.2	650.8	599.1	537.3
75°	784.3	784.7	*785.2*	784.7	778.5	760.7	730.4	691.3	647.2	596.0	535.5
77.5°	776.7	777.2	*777.2*	777.2	770.5	752.7	723.3	685.0	642.3	592.4	532.4
80°	765.6	766.0	*766.9*	766.0	759.4	743.3	714.0	677.5	636.1	586.7	528.3
82.5°	753.1	752.7	*754.0*	753.6	746.9	730.9	701.9	667.2	626.7	580.0	522.6
85°	737.6	737.6	*738.4*	737.6	731.8	714.9	687.7	654.8	616.0	570.2	515.4
87.5°	720.2	720.2	*721.1*	719.3	712.6	697.9	672.1	640.1	604.5	560.4	507.4
90°	699.7	700.6	*700.6*	699.3	692.6	678.4	654.8	624.0	589.3	548.4	498.1
92.5°	680.1	680.1	*679.2*	679.2	672.1	657.9	636.1	608.0	575.5	536.4	487.8
95°	659.2	659.2	*657.9*	657.0	649.9	637.8	616.9	591.1	560.0	523.9	477.6
97.5°	637.0	636.5	*635.6*	634.7	627.6	616.0	597.3	572.4	543.9	509.7	466.5
100°	614.3	614.7	*611.6*	611.1	604.0	594.2	576.4	553.3	527.0	495.0	454.5
102.5°	589.3	590.2	*587.5*	587.1	580.0	569.3	555.1	534.1	510.5	481.2	442.4
105°	567.1	564.8	*563.5*	562.6	556.4	546.6	531.5	515.0	492.7	465.1	429.1
107.5°	541.7	542.1	*539.5*	537.7	531.5	523.5	510.1	495.0	475.4	449.1	416.2
110°	516.3	515.4	*514.1*	513.2	506.1	499.0	487.4	474.9	455.8	433.1	402.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	490.1	490.5	*488.3*	487.0	482.1	474.5	466.0	454.0	437.5	416.2	387.2
115°	465.6	464.7	*462.9*	462.0	456.7	450.9	442.4	433.5	418.9	398.4	372.1
117.5°	440.7	438.9	*438.4*	437.1	433.1	427.3	420.6	413.1	398.8	381.0	356.1
120°	414.8	414.8	*414.0*	413.1	407.7	402.8	398.8	390.8	378.8	361.9	340.5
122.5°	390.8	390.4	*388.6*	387.2	384.6	380.1	375.2	369.0	358.3	343.2	322.7
125°	364.5	365.4	*364.1*	363.7	359.2	357.0	352.5	348.5	337.4	323.6	305.3
127.5°	342.7	341.4	*341.4*	339.2	337.0	334.7	331.2	325.8	318.3	304.0	287.1
130°	319.6	318.7	*317.4*	317.4	314.7	311.6	309.4	304.9	296.4	284.9	268.8
132.5°	296.4	295.6	*294.7*	293.3	291.5	291.1	288.9	284.0	276.0	265.7	251.9
135°	274.6	274.2	*273.7*	273.7	271.1	269.7	267.1	263.1	257.7	248.4	235.0
137.5°	254.2	252.8	*251.9*	251.9	251.0	248.8	246.6	243.5	237.7	230.1	218.1
140°	232.8	233.7	*233.7*	233.2	231.5	230.1	227.5	224.8	219.0	212.8	202.5
142.5°	215.0	214.5	*213.7*	213.2	212.3	210.5	209.2	206.1	202.5	195.8	186.9
145°	195.8	195.8	*195.4*	195.8	194.1	193.6	191.8	189.2	185.2	179.4	171.8
147.5°	178.9	178.9	*178.5*	178.9	177.6	176.3	174.9	173.1	169.6	165.1	158.5
150°	163.4	163.8	*162.9*	162.9	162.5	161.1	160.2	157.6	154.9	151.3	145.6
152.5°	149.1	149.6	*149.1*	148.7	148.2	147.3	146.0	144.2	141.5	138.4	133.5
155°	137.1	136.6	*136.6*	136.6	136.2	134.9	134.9	132.2	129.5	127.3	122.4
157.5°	125.5	125.5	*125.5*	125.5	124.6	124.2	123.3	121.1	119.7	116.6	113.1
160°	116.2	115.7	*115.7*	115.7	114.8	114.4	113.1	112.2	110.4	107.7	105.0
162.5°	106.8	107.3	*107.3*	107.3	106.4	105.9	105.0	104.2	102.8	100.2	98.4
165°	99.7	99.7	*99.7*	99.3	98.8	98.8	97.5	97.0	95.7	93.9	92.6
167.5°	93.9	93.9	*93.5*	93.9	93.0	92.1	91.7	90.8	89.9	89.0	87.7
170°	89.0	89.0	*89.0*	89.0	88.6	88.1	87.2	86.8	85.9	85.0	83.7
172.5°	85.0	85.0	*85.0*	85.0	84.6	84.1	83.2	82.8	82.3	81.5	80.6
175°	81.9	81.9	*81.9*	81.9	81.5	81.0	80.1	80.1	79.7	79.2	78.3
177.5°	79.7	79.7	*79.2*	79.2	78.8	78.3	78.3	77.9	77.9	77.4	77.0
180°	77.0	77.0	*77.0*	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2.5°	49.0	47.2	44.1	41.4	38.3	36.1	33.8	33.4	33.4	34.3	34.3
5°	56.5	52.5	46.3	40.5	33.8	28.9	24.5	20.5	17.8	16.5	16.5
7.5°	70.8	67.7	58.3	50.3	42.3	34.7	27.6	21.4	16.9	13.8	13.4
10°	89.0	84.1	73.0	62.8	52.1	42.7	34.3	26.7	21.4	18.7	18.7
12.5°	108.6	101.9	88.6	76.1	63.7	51.6	41.8	34.3	28.9	26.3	25.4
15°	129.5	122.0	105.9	89.9	74.8	61.9	50.7	41.4	36.1	33.4	32.9
17.5°	149.1	140.7	122.4	103.3	85.9	70.3	57.0	47.2	40.5	37.4	36.9
20°	170.5	159.4	138.0	115.7	95.3	76.6	61.4	49.9	41.8	38.3	37.8
22.5°	192.3	179.4	154.0	128.2	103.7	82.3	64.5	51.2	42.3	38.3	37.8
25°	215.4	201.2	171.4	141.5	113.1	88.1	67.7	52.5	43.2	38.3	37.8
27.5°	239.9	223.9	189.6	155.8	122.4	93.9	70.8	54.3	43.6	38.7	37.8
30°	266.2	247.9	208.3	169.6	131.3	99.3	73.4	55.2	44.1	38.7	38.3
32.5°	292.4	270.2	228.8	182.9	140.7	104.2	76.1	56.5	44.5	39.2	38.7
35°	317.8	296.0	247.5	196.7	149.6	109.1	78.3	57.4	45.4	39.6	38.7
37.5°	343.6	320.0	265.3	209.6	157.6	113.1	80.1	58.3	45.8	40.1	39.2
40°	368.1	340.5	282.6	222.1	164.2	116.6	81.5	58.8	46.3	40.5	39.6
42.5°	391.3	361.9	299.1	232.8	170.9	119.3	82.8	59.6	46.7	41.0	40.5
45°	410.8	380.6	313.4	243.5	175.8	121.5	83.7	60.1	47.2	41.4	41.0
47.5°	430.0	397.5	326.7	251.9	180.7	123.7	84.1	60.5	47.6	42.3	41.8
50°	446.9	412.6	338.7	259.5	184.3	124.6	84.6	61.0	48.5	43.2	42.7
52.5°	461.1	425.5	348.1	265.7	186.9	125.5	84.6	61.0	49.0	44.1	43.6
55°	472.7	436.7	356.5	270.2	188.7	126.0	84.6	61.4	49.9	45.0	44.5
57.5°	482.5	445.1	363.2	274.2	190.5	126.0	84.6	61.9	50.7	45.8	45.4
60°	489.6	452.2	368.1	276.9	191.0	125.5	84.6	62.3	51.6	47.2	46.7
62.5°	495.4	457.1	372.1	278.6	191.0	124.6	84.6	62.8	52.5	48.5	48.1
65°	499.4	460.7	374.8	279.5	190.5	124.2	84.6	63.7	53.9	49.9	49.4
67.5°	*501.6*	*463.4*	*376.6*	*280.4*	*190.1*	*124.2*	*85.0*	*65.0*	*55.2*	*51.6*	*51.2*
70°	502.5	463.8	377.0	280.0	189.6	123.3	85.5	65.9	57.0	53.4	53.0
72.5°	502.5	464.3	377.0	280.0	188.7	123.7	85.9	67.2	58.8	55.2	54.7
75°	501.2	462.9	376.6	279.1	188.3	123.3	87.2	69.0	60.5	57.4	57.0
77.5°	498.5	461.1	375.2	277.8	187.8	123.7	88.1	70.8	62.8	59.6	59.6
80°	495.4	458.5	373.5	276.4	187.4	124.6	89.5	73.0	65.0	62.3	61.9
82.5°	490.5	454.5	370.3	274.6	186.5	125.1	91.2	75.2	67.7	64.5	64.5
85°	483.8	448.7	366.3	272.4	185.6	126.0	93.0	77.0	70.3	67.2	67.2
87.5°	476.7	442.4	361.4	269.7	185.2	126.9	95.3	79.7	72.6	69.9	69.4
90°	468.3	434.9	356.5	266.6	184.7	128.2	97.0	82.3	75.7	73.0	72.6
92.5°	459.4	427.3	351.2	264.4	184.3	129.5	99.7	85.5	78.8	76.1	75.7
95°	450.5	419.3	345.9	261.3	184.3	131.3	102.4	88.6	81.9	79.2	78.8
97.5°	440.2	410.4	339.6	258.6	184.3	133.5	105.5	91.7	85.0	82.3	82.3
100°	429.5	401.5	333.4	255.9	184.7	135.8	108.6	95.3	88.6	85.9	85.9
102.5°	418.9	391.7	327.6	253.7	185.6	138.9	112.6	99.3	92.6	89.9	89.5
105°	407.3	381.9	320.9	250.6	186.5	141.5	116.2	102.8	96.1	93.5	93.5
107.5°	395.7	371.7	314.3	248.4	187.4	144.2	120.2	106.8	100.2	97.0	97.0
110°	382.8	360.5	307.1	245.7	188.3	147.3	123.3	110.4	103.3	100.6	100.2

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

Scaled Data Report

REPORT NUMBER: P1045882
CATALOG NUMBER: FFX-CLB-40-727-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	369.4	349.4	299.6	242.1	188.7	150.0	126.9	113.9	106.8	103.7	103.3
115°	355.2	337.0	291.1	238.6	188.7	152.2	129.5	116.6	109.5	106.4	105.9
117.5°	341.0	323.6	281.8	233.7	188.3	153.6	131.8	118.4	111.3	108.2	107.7
120°	325.8	310.2	272.4	228.8	186.5	154.0	132.6	119.7	112.2	109.1	108.6
122.5°	310.2	296.0	261.3	222.1	183.8	153.6	132.6	119.7	112.2	108.6	108.2
125°	293.3	280.9	249.7	214.1	179.8	151.8	131.8	118.8	111.3	107.7	106.8
127.5°	276.9	265.7	237.7	206.1	174.9	149.1	130.0	117.1	109.5	105.9	105.5
130°	260.8	249.7	225.2	197.2	169.1	145.6	126.9	114.4	107.3	103.3	102.8
132.5°	243.9	233.7	212.8	187.8	162.5	141.1	123.7	111.7	104.2	101.0	100.2
135°	227.0	219.0	199.9	178.0	155.8	136.2	120.2	108.6	101.5	97.9	97.9
137.5°	211.9	203.9	186.9	168.3	148.7	130.4	115.7	105.0	98.4	95.3	94.8
140°	196.3	190.1	174.9	158.5	141.1	125.1	112.2	101.9	95.7	92.6	92.1
142.5°	181.6	175.4	163.4	148.2	133.5	119.3	107.7	98.4	92.6	89.9	89.5
145°	166.9	162.5	150.9	138.9	126.0	113.5	102.8	94.8	89.9	87.2	87.2
147.5°	154.0	150.0	139.8	129.5	118.4	108.2	98.8	91.7	87.2	85.0	84.6
150°	141.5	138.0	129.5	121.1	110.8	102.4	94.4	88.6	84.6	82.8	82.3
152.5°	130.0	127.3	120.2	113.1	104.6	97.0	90.8	85.9	82.3	80.6	80.6
155°	120.2	118.0	111.7	105.5	98.8	92.6	87.2	83.2	80.6	79.2	78.8
157.5°	111.7	109.1	104.2	99.3	93.9	88.6	84.6	81.0	79.2	77.9	77.9
160°	103.7	101.5	97.5	93.9	89.5	85.5	81.9	79.7	77.9	77.0	77.0
162.5°	97.0	95.3	92.1	89.0	85.9	82.8	80.1	78.3	77.0	76.1	76.1
165°	91.2	90.4	87.7	85.5	82.8	80.6	78.8	77.4	76.6	76.1	76.1
167.5°	86.8	85.9	84.1	82.3	80.6	78.8	77.4	76.6	76.1	75.7	75.7
170°	83.2	82.3	81.5	80.1	78.8	77.4	76.6	76.1	75.7	75.7	75.7
172.5°	80.6	79.7	79.2	78.3	77.4	76.6	76.1	75.7	75.7	75.7	75.7
175°	78.3	77.9	77.4	77.0	76.6	76.1	75.7	75.7	75.7	75.7	75.7
177.5°	77.0	76.6	76.6	76.1	76.1	75.7	75.7	76.1	76.1	76.1	76.6
180°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0

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: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

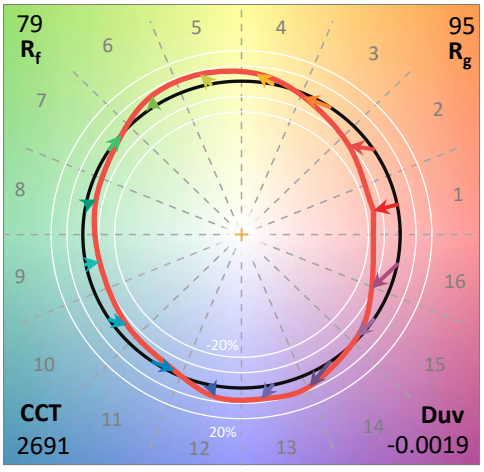
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

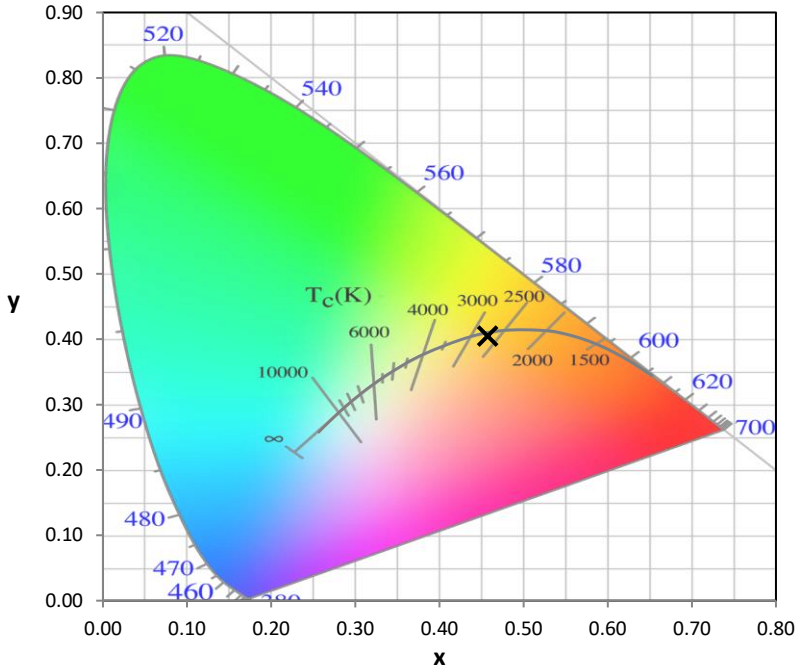
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

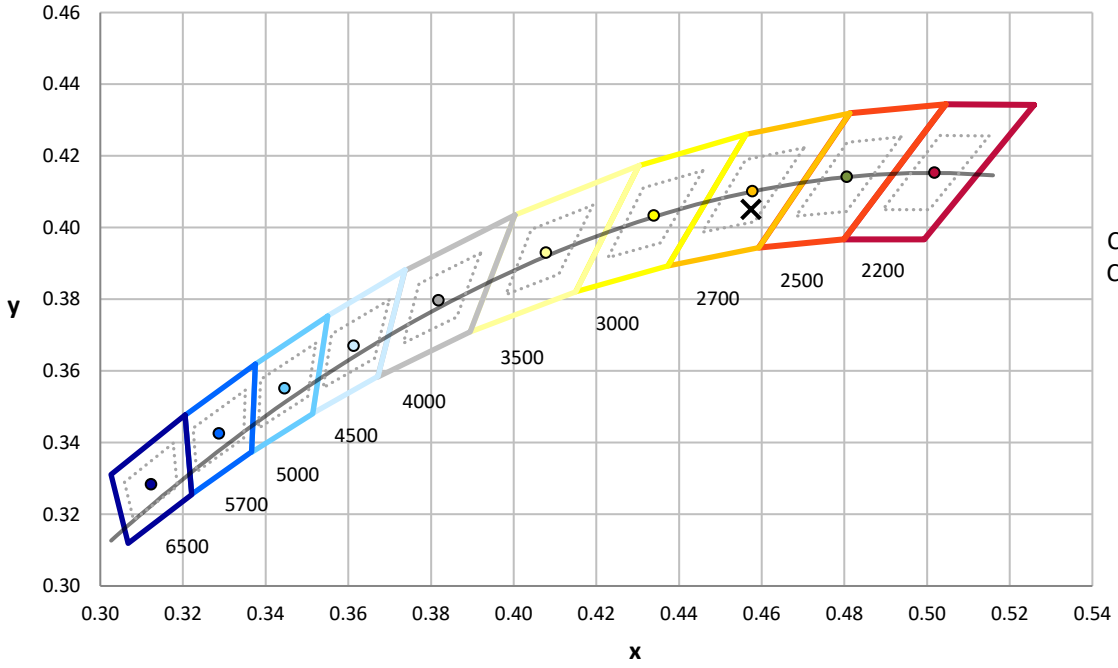
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



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

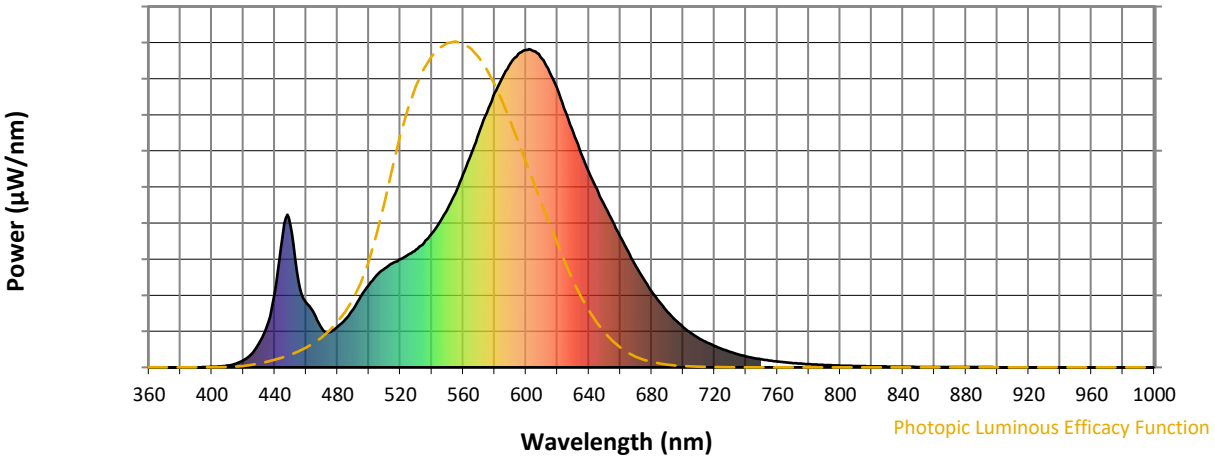


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

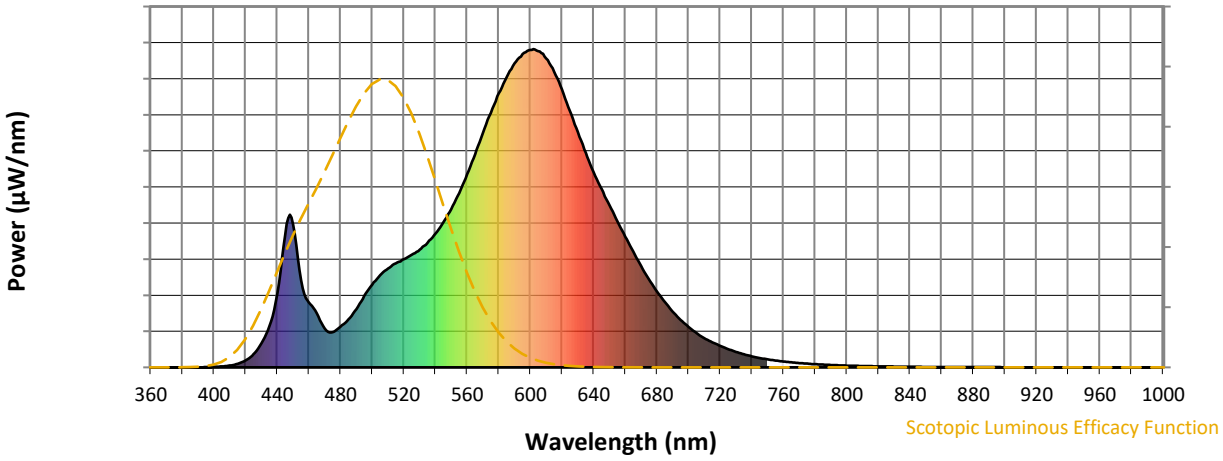


Photopic Lumens: NR

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

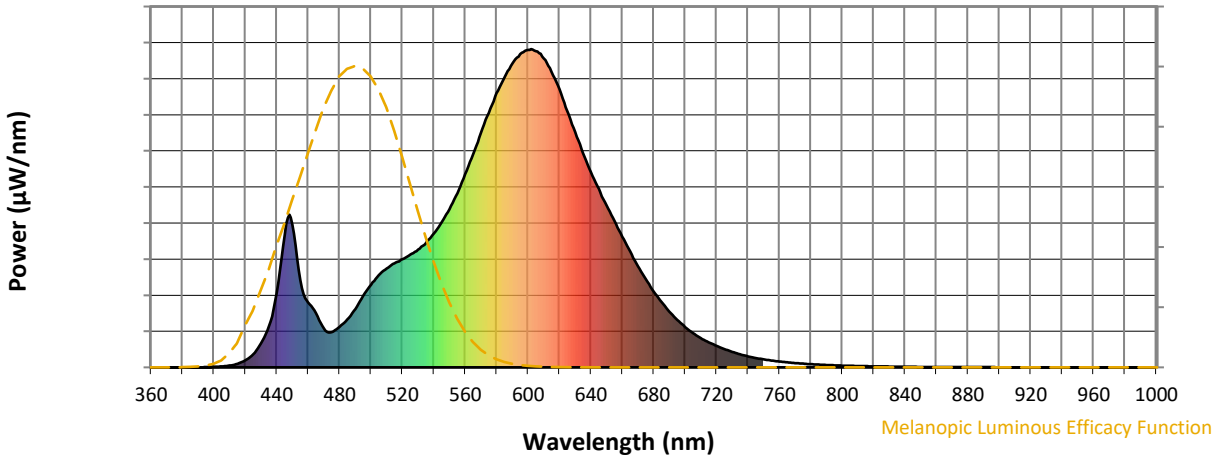


Scotopic Lumens: NR **S/P: 1.18**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

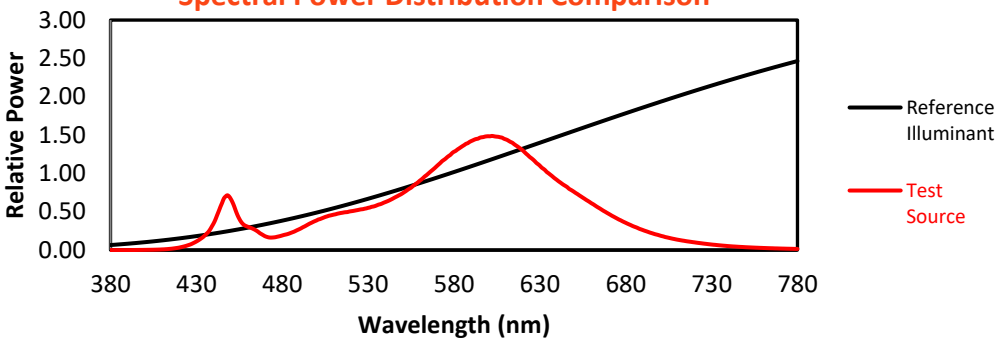
REPORT NUMBER: SP1-2501-332-8

TM-30-18

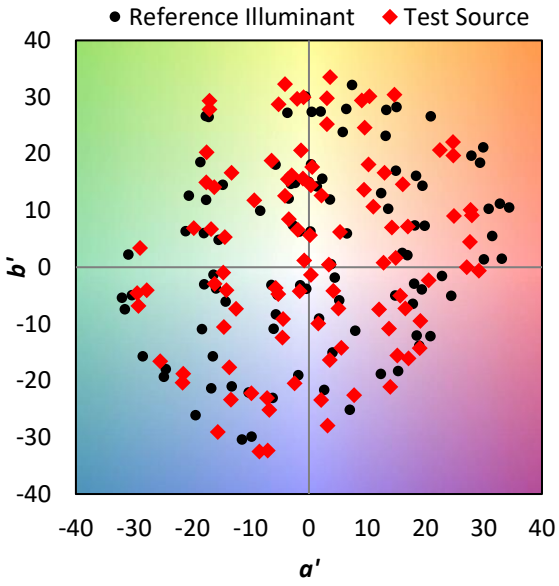
Summary

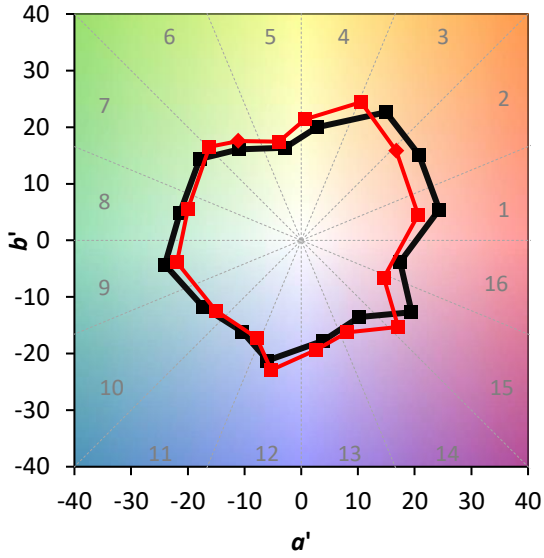
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

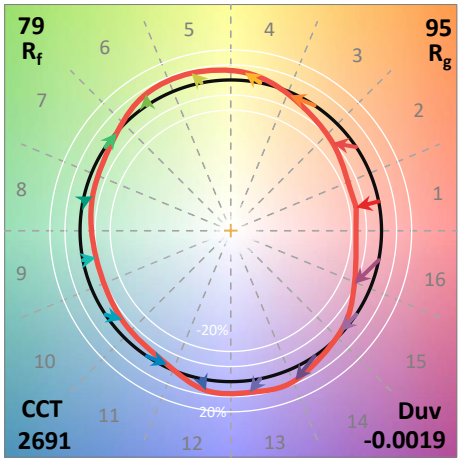
Spectral Power Distribution Comparison

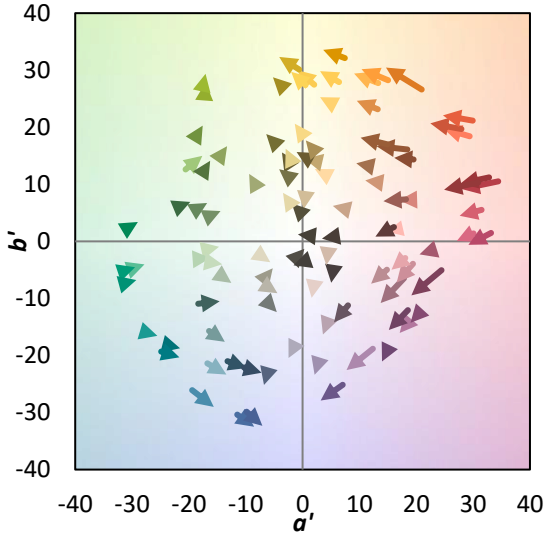


Color Vector Graphics







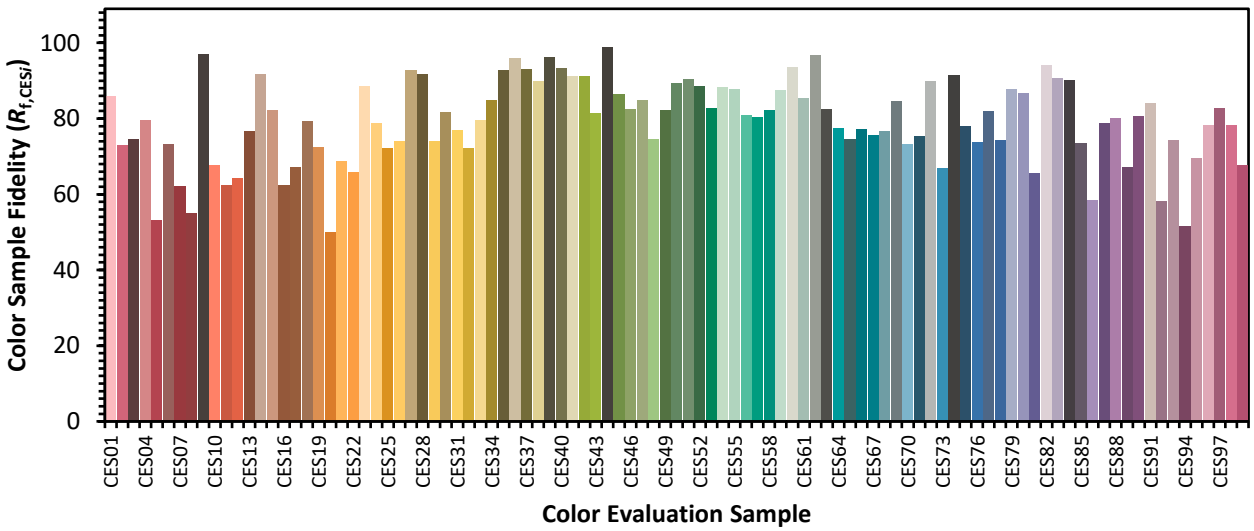


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

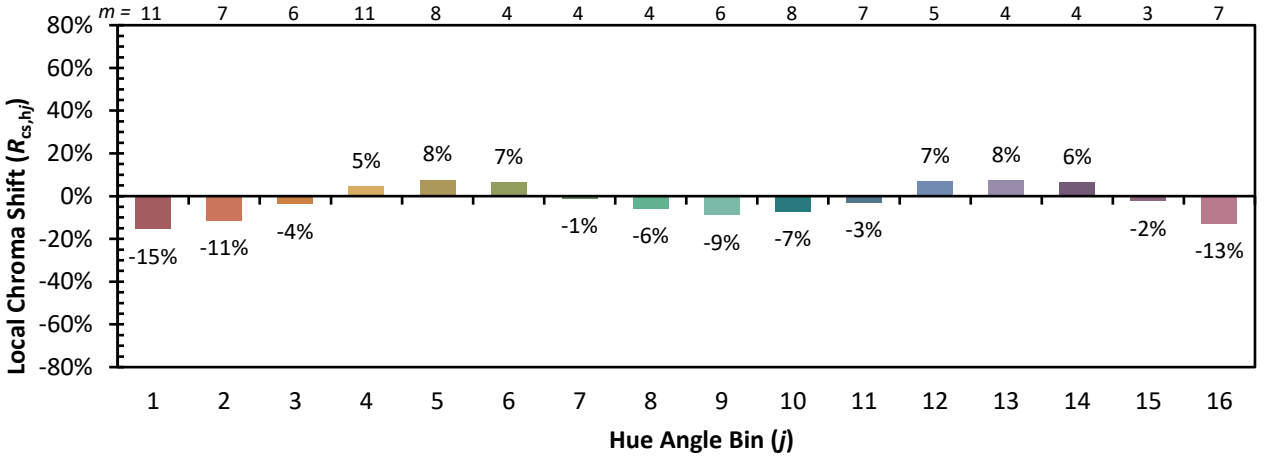
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 82	CES83 = 91
CES09 = 29	CES34 = 85	CES59 = 88	CES84 = 90
CES10 = 77	CES35 = 93	CES60 = 94	CES85 = 73
CES11 = 60	CES36 = 96	CES61 = 85	CES86 = 58
CES12 = 66	CES37 = 93	CES62 = 97	CES87 = 79
CES13 = 44	CES38 = 90	CES63 = 83	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 77	CES89 = 67
CES15 = 72	CES40 = 93	CES65 = 75	CES90 = 81
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 84
CES17 = 51	CES42 = 91	CES67 = 76	CES92 = 58
CES18 = 57	CES43 = 82	CES68 = 77	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 85	CES94 = 52
CES20 = 67	CES45 = 86	CES70 = 73	CES95 = 70
CES21 = 87	CES46 = 83	CES71 = 75	CES96 = 78
CES22 = 80	CES47 = 85	CES72 = 90	CES97 = 83
CES23 = 92	CES48 = 74	CES73 = 67	CES98 = 78
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 68
CES25 = 73	CES50 = 89	CES75 = 78	

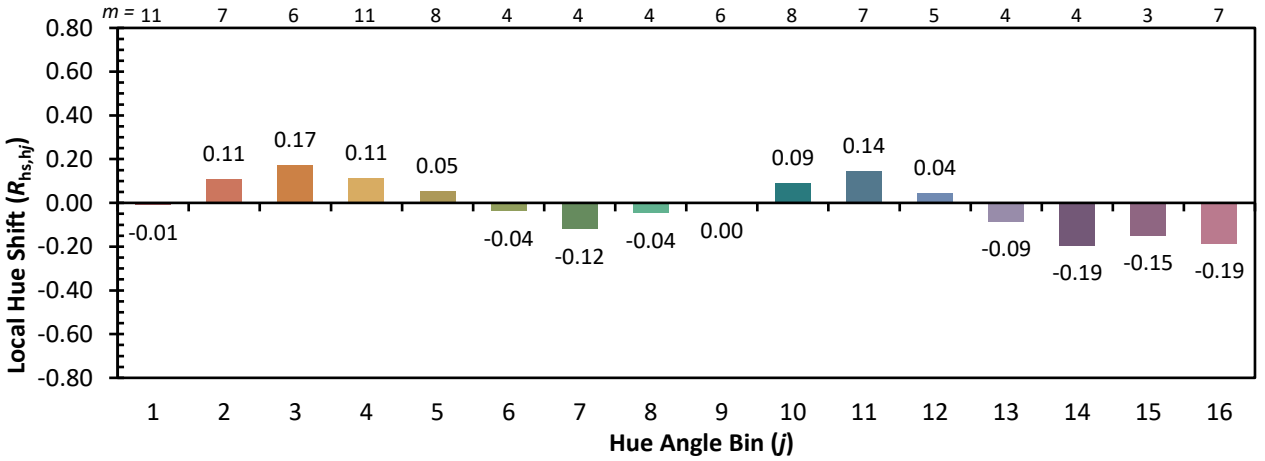


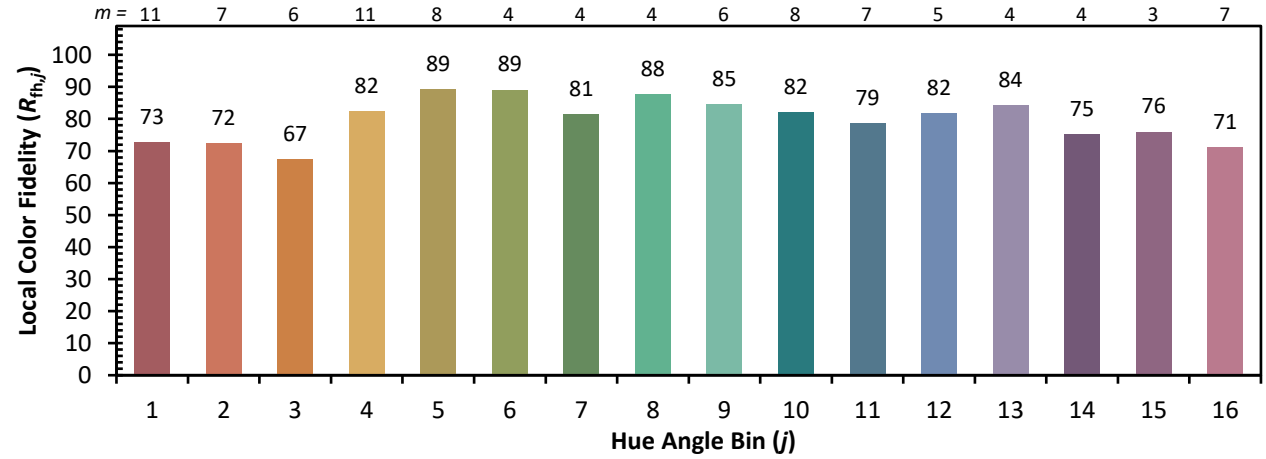
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Color Rendition by Hue-Angle Bin



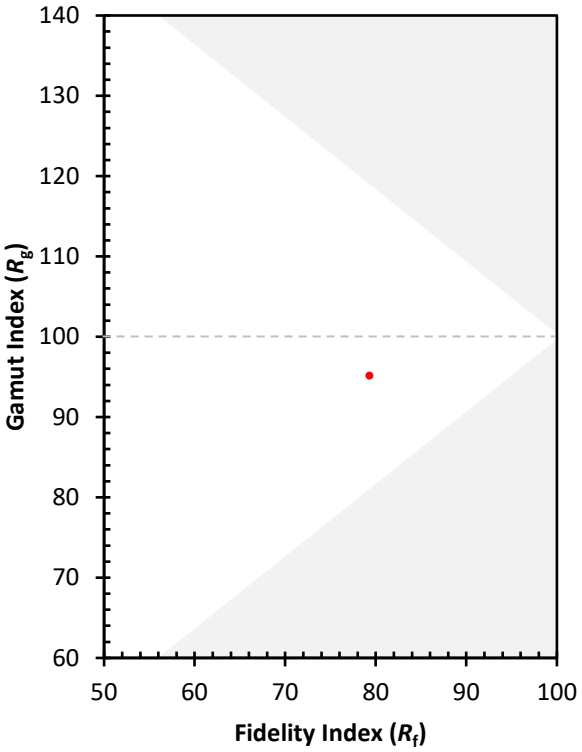


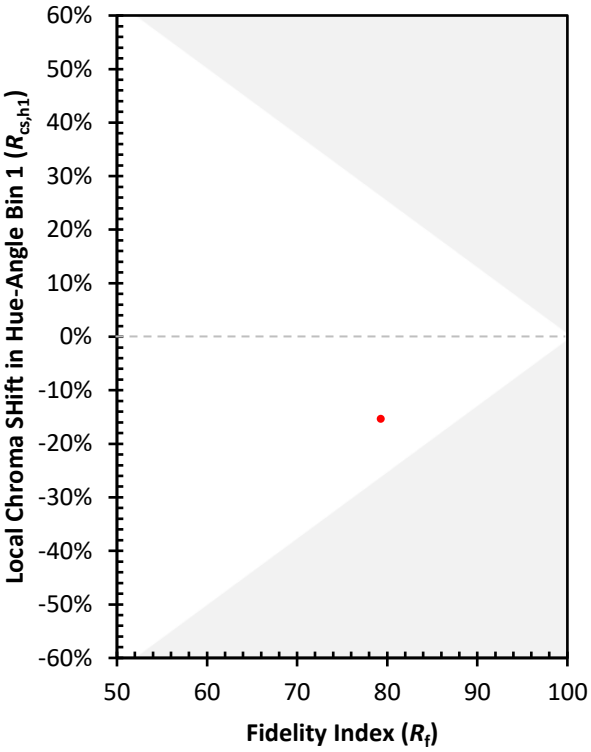


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Measure Comparisons





(END OF REPORT)