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: P1045838

Luminaire Tested: **FFX-CLB-30-727-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:	P1045838
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-727-U-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 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:	3155.5 lumens
Efficiency:	N/A
Efficacy:	103.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	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

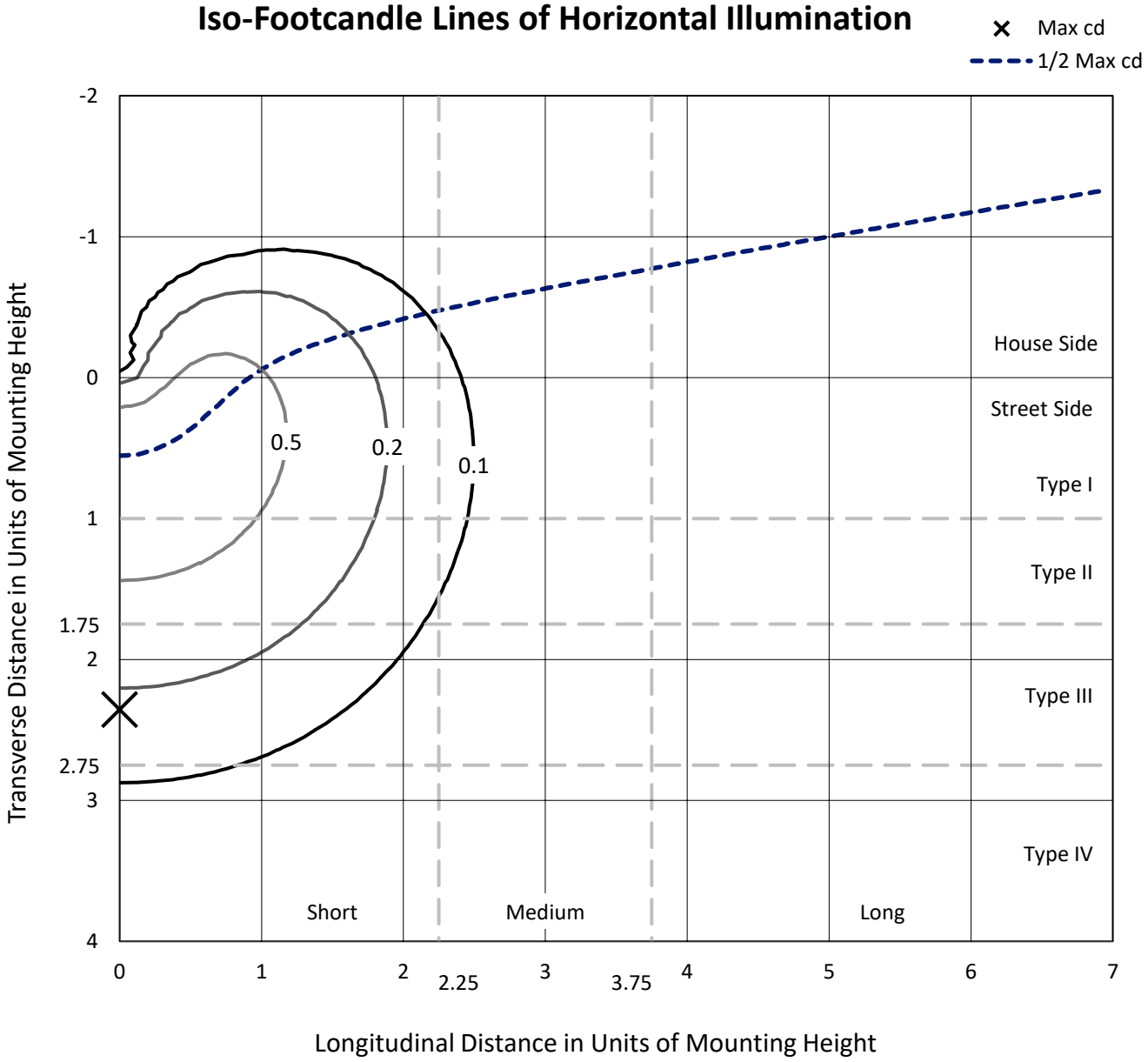


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Iso-Footcandle Lines of Horizontal Illumination



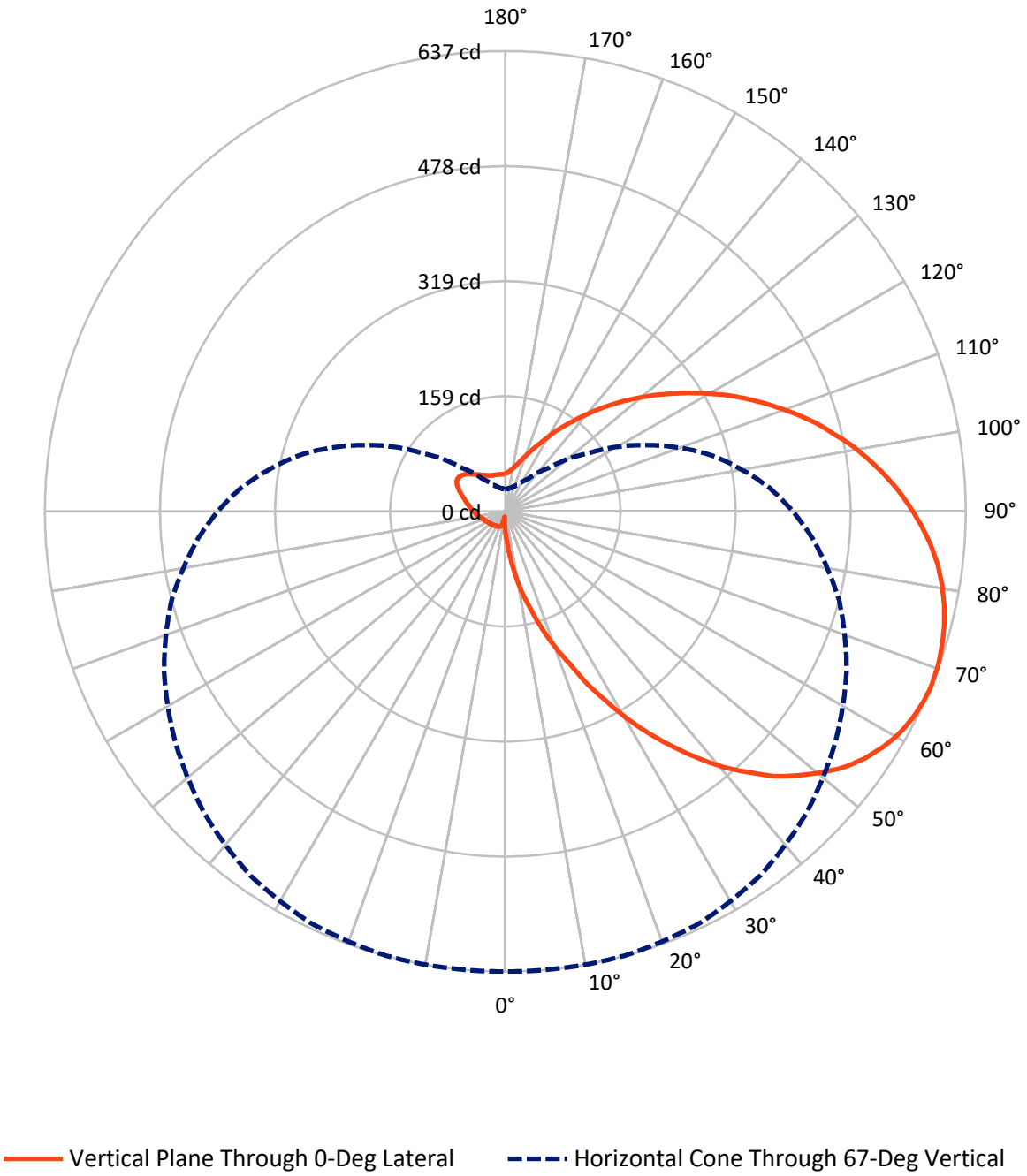
Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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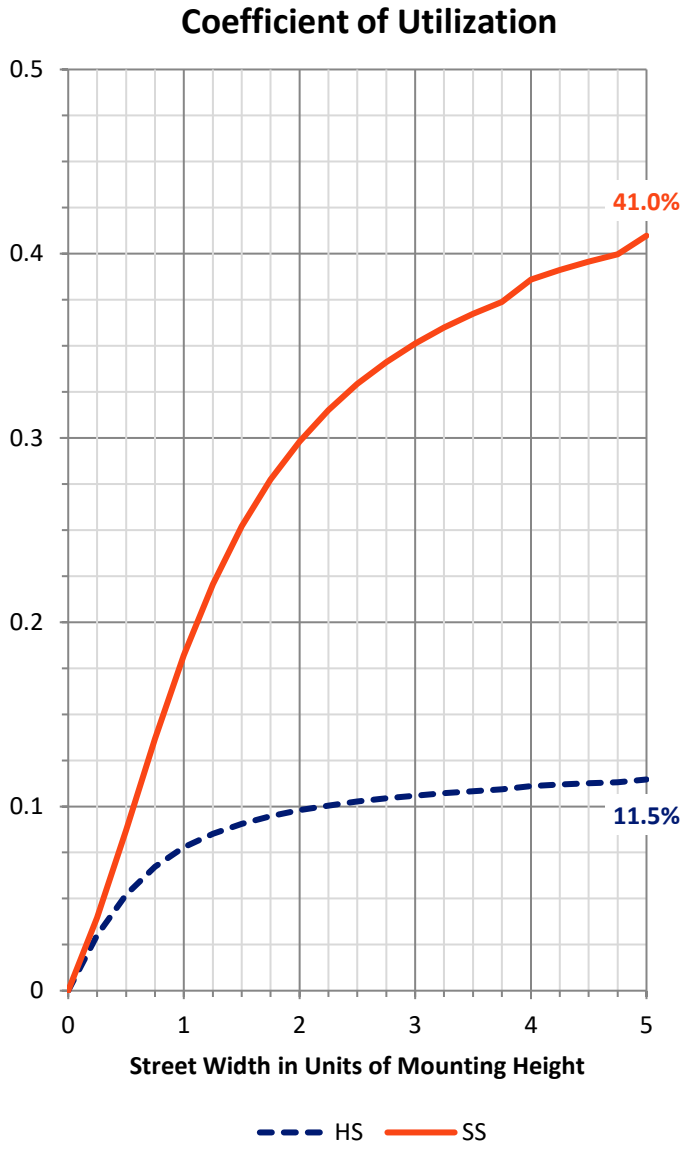
REPORT NUMBER: P1045838
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	390.8	372.3	763.0
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	1473.4	919.1	2392.4
	% Fixture	46.7	29.1	75.8
Total	Lumens	1864.1	1291.4	3155.5
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.1
10°-20°	26.2	0.8
20°-30°	73.2	2.3
30°-40°	146.5	4.6
40°-50°	230.2	7.3
50°-60°	302.7	9.6
60°-70°	349.5	11.1
70°-80°	368.8	11.7
80°-90°	362.7	11.5
90°-100°	332.9	10.6
100°-110°	288.0	9.1
110°-120°	236.3	7.5
120°-130°	180.2	5.7
130°-140°	121.4	3.8
140°-150°	71.9	2.3
150°-160°	37.8	1.2
160°-170°	17.6	0.6
170°-180°	5.1	0.2
0°-90°	1864.1	59.1
0°-180°	3155.5	100.0



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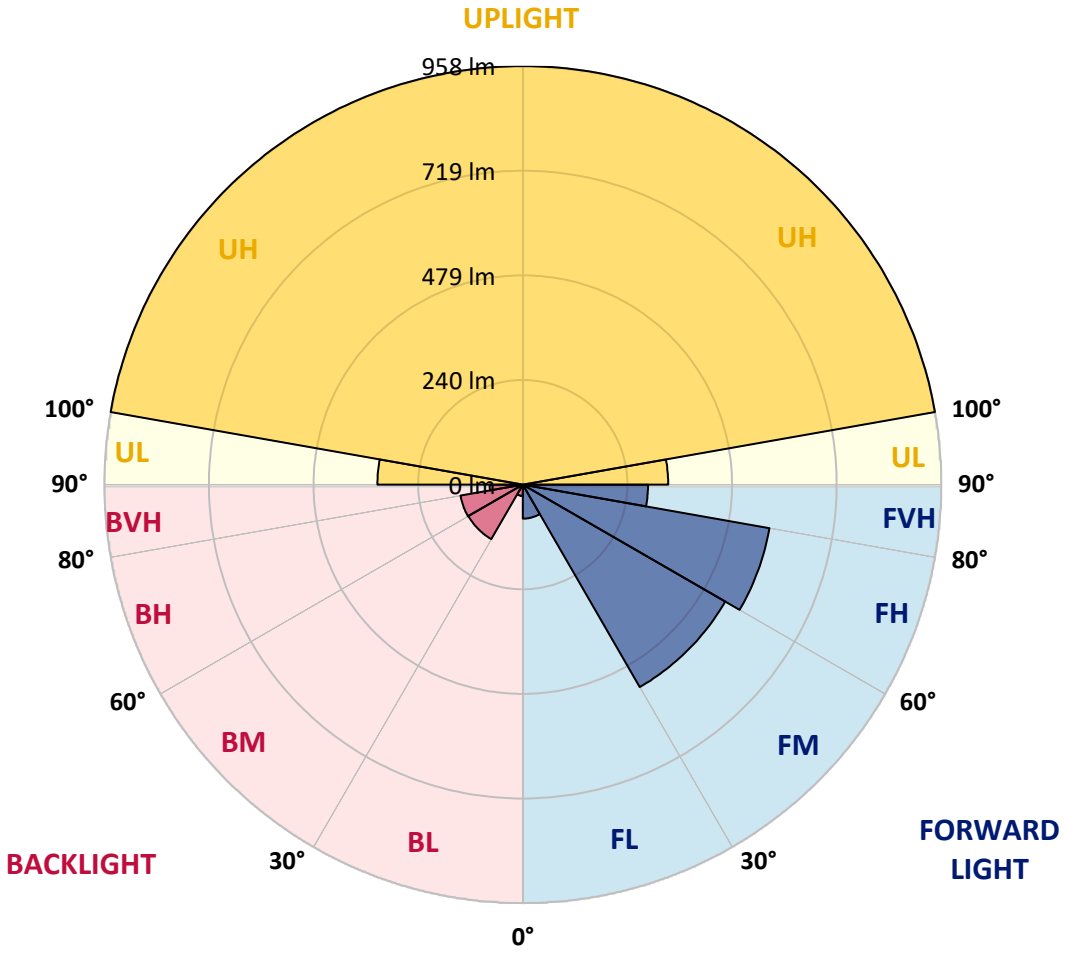
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	77.9	2.5			
FM	(30°-60°)	535.3	17.0			
FH	(60°-80°)	573.5	18.2			G0/660
FVH	(80°-90°)	286.7	9.1			G3/500
BL	(0°-30°)	25.7	0.8	B0/110		
BM	(30°-60°)	144.1	4.6	B0/220		
BH	(60°-80°)	144.9	4.6	B1/500		G1/500
BVH	(80°-90°)	76.1	2.4			G1/100
UL	(90°-100°)	332.9	10.6		U3/500	
UH	(100°-180°)	958.4	30.4		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	*30.7*	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
2.5°	*40.7*	41.4	41.4	41.1	40.7	40.0	39.4	38.0	35.2	33.1	31.1
5°	*59.0*	59.0	59.4	59.0	57.7	56.3	53.2	50.8	46.3	42.8	39.0
7.5°	*80.1*	81.1	80.8	79.8	77.3	74.2	70.4	65.9	61.5	56.3	50.4
10°	*103.6*	103.2	103.2	101.8	99.1	94.9	90.8	85.6	79.1	72.5	64.9
12.5°	*125.7*	126.7	126.0	124.3	120.8	117.7	112.5	106.7	99.1	92.2	81.8
15°	*149.5*	150.2	150.2	149.1	146.0	141.5	135.7	130.2	120.1	110.5	100.5
17.5°	*176.8*	175.7	174.3	174.3	170.5	166.8	160.9	153.3	142.2	131.5	118.1
20°	*204.0*	203.7	202.0	200.9	198.5	193.0	185.4	176.8	165.7	153.6	137.8
22.5°	*229.6*	233.0	232.7	231.0	227.9	222.3	214.0	203.7	192.3	177.1	158.8
25°	*265.8*	263.8	264.1	262.4	259.6	253.1	244.8	232.7	218.9	202.0	181.3
27.5°	*297.3*	296.6	296.6	295.5	291.7	284.8	275.2	263.8	247.9	227.9	204.7
30°	*333.5*	331.8	331.1	330.0	326.3	318.7	308.6	294.5	277.2	256.9	229.6
32.5°	*367.7*	366.3	363.9	363.5	360.8	352.8	341.4	326.9	307.3	283.4	253.4
35°	*400.5*	401.2	400.1	398.4	394.6	387.0	376.0	358.4	339.0	311.4	279.0
37.5°	*433.6*	433.3	434.0	432.6	426.7	419.5	406.3	387.7	365.6	335.6	301.4
40°	*466.1*	464.3	464.0	462.6	458.5	451.2	436.4	417.4	392.5	361.5	322.8
42.5°	*494.0*	494.7	494.0	492.7	487.1	478.8	463.3	442.3	416.0	382.5	342.8
45°	*523.4*	522.3	522.0	522.0	514.8	506.1	489.2	467.5	438.1	402.2	360.1
47.5°	*546.5*	547.9	547.2	545.5	540.6	529.9	512.0	488.2	457.4	420.5	375.6
50°	*568.3*	570.0	570.3	568.6	562.7	551.0	532.4	505.8	474.7	435.7	389.1
52.5°	*588.3*	587.9	589.0	587.9	582.4	570.3	548.9	522.0	488.5	448.5	399.4
55°	*603.8*	603.8	604.5	603.1	598.0	584.5	562.4	533.7	499.6	458.5	408.4
57.5°	*616.3*	616.9	616.6	616.3	610.4	596.2	572.8	543.1	508.5	465.7	415.0
60°	*625.9*	626.3	626.3	625.6	619.7	604.9	581.0	550.3	514.4	471.9	420.2
62.5°	*632.1*	632.5	632.5	631.8	625.9	610.7	586.6	554.8	518.5	475.7	423.6
65°	*635.9*	636.3	636.3	635.6	629.7	614.2	589.3	557.2	520.6	477.8	425.7
67°	*637.3*	*637.3*	*637.3*	*637.0*	*630.8*	*615.6*	*590.0*	*557.6*	*521.3*	*478.5*	*426.7*
67.5°	*637.0*	637.0	637.3	636.6	630.8	615.2	589.7	557.6	521.0	478.5	426.7
70°	*635.9*	635.9	635.9	635.2	629.4	613.8	588.3	555.8	519.9	477.8	426.4
72.5°	*632.1*	632.5	632.5	631.8	625.9	610.7	585.2	552.7	517.2	475.7	425.3
75°	*627.6*	627.6	627.6	627.0	621.1	605.9	580.7	548.6	513.7	473.0	423.3
77.5°	*621.1*	621.1	621.1	620.4	614.5	599.7	574.8	543.4	509.2	469.2	420.8
80°	*612.8*	613.1	612.8	612.1	606.2	591.4	567.6	536.8	503.4	464.7	417.4
82.5°	*603.1*	603.5	603.1	601.8	596.2	582.1	558.3	528.2	496.5	458.8	413.3
85°	*590.7*	590.4	590.7	588.6	583.8	569.6	547.9	518.5	487.8	451.9	407.4
87.5°	*576.5*	576.9	576.2	575.2	569.3	555.5	534.8	507.5	477.8	443.6	400.5
90°	*561.0*	561.0	560.7	559.3	553.1	540.6	521.0	494.7	467.1	434.3	393.2
92.5°	*545.1*	544.8	543.8	543.1	537.5	524.8	505.8	482.3	456.4	425.0	385.6
95°	*527.5*	527.5	526.8	525.5	519.2	508.9	490.6	468.5	444.0	415.0	377.7
97.5°	*508.9*	508.5	508.2	506.1	500.6	490.2	475.4	454.0	431.5	404.3	368.7
100°	*490.6*	489.5	488.9	486.8	482.0	471.9	457.8	439.1	417.4	392.5	359.0
102.5°	*469.2*	469.2	468.8	466.8	460.5	452.3	439.5	422.9	404.3	380.5	348.7
105°	*450.2*	448.5	447.8	445.7	440.9	431.9	421.2	406.7	389.4	367.3	338.3
107.5°	*428.8*	427.4	427.1	424.0	420.2	411.9	402.9	389.4	374.9	355.3	327.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*407.0*	406.3	406.0	402.9	398.1	392.5	383.2	372.5	359.7	341.8	317.6
112.5°	*385.6*	384.9	384.9	382.5	378.0	371.1	364.6	355.3	343.9	328.3	305.9
115°	*364.6*	363.5	363.2	360.4	355.9	350.8	344.2	337.6	328.0	314.9	294.5
117.5°	*343.5*	342.1	342.5	340.1	336.6	331.4	325.2	320.7	312.4	300.4	283.1
120°	*321.8*	322.1	322.1	319.0	315.9	311.8	306.6	302.1	296.6	285.9	270.0
122.5°	*301.0*	301.7	301.7	299.7	295.9	292.1	288.6	284.5	279.6	271.4	257.2
125°	*280.3*	281.7	281.0	279.3	276.2	272.0	269.6	266.2	262.4	255.5	243.0
127.5°	*261.3*	261.3	259.6	260.0	256.9	253.4	251.3	248.9	245.1	238.6	228.5
130°	*241.7*	242.0	242.4	240.3	237.5	234.8	232.7	231.7	228.5	223.0	213.0
132.5°	*223.7*	223.7	223.0	221.6	219.2	217.2	217.2	214.0	211.6	206.5	197.8
135°	*206.1*	205.8	205.8	204.4	202.7	201.6	199.2	197.8	195.4	190.6	184.0
137.5°	*188.8*	189.5	188.8	187.8	186.1	184.7	183.0	182.6	179.2	175.7	168.5
140°	*172.3*	173.3	172.3	171.9	170.5	168.8	167.8	166.4	165.4	160.9	154.7
142.5°	*156.7*	157.4	156.7	156.4	155.4	154.0	153.3	152.3	149.8	147.1	141.9
145°	*143.3*	142.9	142.9	142.6	141.2	140.2	139.1	138.4	137.1	134.3	128.4
147.5°	*130.2*	129.1	129.8	129.1	128.1	127.4	127.0	125.7	124.3	121.5	117.4
150°	*116.7*	117.4	117.0	116.7	115.7	115.7	114.6	113.6	112.5	109.4	106.7
152.5°	*105.6*	105.6	106.0	105.3	105.0	103.9	103.2	102.9	101.5	99.4	96.3
155°	*96.3*	96.0	96.0	96.0	95.3	94.3	93.9	93.2	92.5	90.1	87.3
157.5°	*87.3*	87.3	87.3	87.0	87.0	86.0	85.6	84.6	83.5	82.2	79.8
160°	*79.8*	79.8	79.4	79.4	79.1	78.7	78.0	77.0	76.3	75.3	73.2
162.5°	*73.5*	73.2	73.2	72.8	72.5	71.8	71.5	71.1	70.1	69.0	67.3
165°	*67.7*	67.7	67.7	67.3	67.0	66.6	66.3	65.6	64.9	64.2	63.2
167.5°	*63.2*	63.2	63.2	62.8	62.8	62.5	62.1	61.5	60.8	60.1	59.4
170°	*59.7*	59.7	59.7	59.4	59.0	58.7	58.3	58.0	57.7	57.0	56.6
172.5°	*57.0*	57.0	57.0	57.0	56.3	55.9	55.6	55.6	55.2	54.9	54.5
175°	*54.5*	54.5	54.5	54.5	54.2	53.9	53.5	53.5	53.2	52.8	52.5
177.5°	*53.2*	53.2	53.2	52.8	52.8	52.5	52.1	52.1	51.8	51.8	51.4
180°	*51.4*	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
2.5°	29.7	28.3	25.9	23.8	22.1	20.4	19.3	18.3	18.3	18.6	18.0
5°	35.9	33.5	29.0	24.2	20.0	16.6	13.8	11.4	9.3	8.3	8.3
7.5°	47.6	44.9	38.7	32.5	26.6	21.1	16.6	12.8	9.7	7.9	7.6
10°	61.1	58.0	49.4	41.8	34.5	27.6	21.8	16.6	13.1	11.4	11.0
12.5°	76.6	72.5	62.1	52.5	43.2	34.5	27.3	21.4	18.0	16.2	15.9
15°	94.6	88.0	76.3	64.2	52.1	41.4	32.8	26.2	22.4	20.0	20.0
17.5°	110.8	103.9	89.8	74.2	60.4	48.0	37.6	29.7	24.5	22.1	21.8
20°	129.5	120.1	103.2	85.3	68.4	53.2	40.7	31.8	25.5	22.4	22.4
22.5°	148.5	138.8	118.1	96.3	76.0	58.0	43.8	33.1	26.2	22.8	22.4
25°	170.9	157.8	132.9	108.4	84.6	63.2	46.6	34.5	26.9	23.5	22.8
27.5°	192.6	179.2	150.2	120.5	92.5	68.4	49.0	35.9	27.6	23.8	23.5
30°	215.4	198.9	166.1	132.9	100.8	72.8	51.4	36.9	28.0	24.2	23.5
32.5°	238.2	219.9	183.7	145.0	108.8	77.0	53.5	37.6	28.7	24.5	23.8
35°	261.3	241.7	200.6	157.1	116.0	80.8	54.9	38.3	29.0	24.5	24.2
37.5°	281.4	260.7	216.5	168.1	122.2	83.9	56.3	39.0	29.0	24.9	24.5
40°	301.4	279.0	230.3	177.5	127.7	86.3	57.3	39.4	29.3	25.2	24.9
42.5°	319.3	294.5	242.4	185.7	132.2	88.0	57.7	39.4	29.7	25.5	25.2
45°	335.6	310.4	253.8	193.7	136.0	89.1	58.0	39.7	30.0	25.9	25.5
47.5°	350.4	323.5	264.1	200.2	139.1	90.1	58.0	39.7	30.4	26.6	25.9
50°	362.8	334.5	272.7	205.8	141.2	90.5	57.7	39.7	30.7	26.9	26.6
52.5°	372.5	343.9	280.0	209.6	142.6	90.1	57.3	39.7	31.1	27.3	26.9
55°	380.8	351.5	285.2	212.7	142.9	89.4	57.0	39.7	31.4	28.0	27.6
57.5°	387.0	357.0	289.7	215.1	143.3	88.7	56.3	39.7	31.8	28.3	28.0
60°	391.8	361.8	293.1	216.5	142.9	87.7	55.9	39.7	32.1	29.0	28.7
62.5°	395.3	364.6	295.2	216.8	141.9	86.7	55.2	39.7	32.5	29.7	29.3
65°	397.4	366.6	296.9	217.2	140.9	85.6	54.9	40.0	33.1	30.7	30.4
67°	*398.1*	*367.7*	*297.3*	*217.2*	*140.2*	*84.9*	*54.9*	*40.4*	*33.8*	*31.1*	*30.7*
67.5°	398.4	367.7	297.3	216.8	139.8	84.9	54.9	40.4	33.8	31.4	31.1
70°	398.1	367.7	297.3	216.1	138.8	84.2	54.5	41.1	34.9	32.5	32.1
72.5°	397.4	367.0	296.6	215.1	137.4	83.5	54.9	41.8	35.9	33.5	33.1
75°	395.6	365.6	295.2	213.7	136.4	82.9	55.2	42.5	36.9	34.9	34.5
77.5°	393.9	363.9	294.1	212.3	135.3	82.9	55.6	43.5	38.3	36.3	35.9
80°	390.8	361.5	292.1	210.9	134.3	82.5	56.3	44.9	39.7	37.6	37.3
82.5°	387.0	358.0	289.3	208.9	133.3	82.5	57.3	45.9	41.1	39.0	38.7
85°	381.8	353.5	285.9	206.1	132.2	82.9	58.0	47.3	42.5	40.7	40.4
87.5°	376.0	348.0	281.7	203.7	131.2	82.9	59.0	48.7	43.8	42.1	42.1
90°	369.1	342.1	276.9	200.9	130.2	83.5	60.4	50.1	45.6	43.8	43.8
92.5°	362.8	335.9	273.1	198.2	129.5	84.2	61.8	51.8	47.3	45.6	45.6
95°	354.6	329.4	267.6	195.8	129.1	84.9	63.2	53.5	49.4	47.6	47.3
97.5°	346.6	322.1	262.7	193.0	128.8	86.3	64.9	55.6	51.1	49.4	49.4
100°	338.0	314.9	257.2	190.6	128.8	88.0	67.3	57.7	53.5	51.8	51.4
102.5°	329.7	306.9	251.7	188.2	129.5	89.8	69.7	60.1	55.9	54.2	53.9
105°	320.4	298.6	246.8	186.1	130.2	92.2	72.5	63.2	58.7	57.0	56.6
107.5°	311.1	291.0	241.3	184.4	131.5	95.3	76.0	66.3	61.8	59.7	59.4

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

Scaled Data Report

REPORT NUMBER: P1045838
CATALOG NUMBER: FFX-CLB-30-727-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	301.0	282.8	236.5	183.0	133.6	98.7	79.8	70.4	65.3	63.2	62.8
112.5°	291.7	274.5	231.3	181.9	135.7	102.9	84.2	74.2	69.4	66.6	66.3
115°	281.4	265.8	226.5	180.9	138.1	107.0	89.1	78.4	73.2	70.4	70.4
117.5°	271.4	256.9	221.0	179.9	140.5	111.5	93.6	82.9	77.0	74.2	73.9
120°	259.6	247.2	215.1	177.8	141.9	115.0	97.4	86.7	80.1	77.3	77.0
122.5°	247.9	236.5	207.5	174.7	142.2	117.0	100.1	89.8	82.9	79.8	79.4
125°	234.4	224.8	199.5	169.9	141.2	118.1	101.8	90.8	83.9	80.4	80.1
127.5°	221.3	212.0	190.2	164.0	138.4	117.0	101.5	90.8	83.9	80.1	79.8
130°	207.1	198.9	179.2	156.7	134.0	114.6	100.1	89.4	82.5	78.7	78.4
132.5°	192.6	185.7	168.5	148.8	128.4	110.8	97.0	87.0	80.1	76.6	76.3
135°	178.5	172.3	157.4	139.8	122.6	106.3	93.6	83.9	77.0	73.9	73.9
137.5°	165.0	159.2	146.0	131.2	115.7	101.2	89.4	80.1	74.2	71.1	70.4
140°	151.2	146.4	135.0	121.9	108.4	95.6	84.9	76.3	70.8	68.0	67.7
142.5°	138.4	134.3	124.6	113.9	101.5	90.5	80.4	73.2	68.0	65.3	64.9
145°	126.4	122.6	114.3	104.6	94.6	84.9	76.0	69.4	64.9	62.8	62.5
147.5°	114.3	111.9	105.0	97.0	87.7	79.1	71.8	66.3	62.1	60.4	60.1
150°	104.3	101.2	96.0	88.7	81.5	74.2	68.0	63.2	60.1	58.3	58.3
152.5°	94.3	92.5	87.3	81.8	75.6	69.7	64.2	60.4	58.0	56.6	56.6
155°	86.7	84.2	79.8	75.3	70.1	65.3	61.5	58.3	56.3	55.2	54.9
157.5°	78.7	77.3	73.9	69.7	65.9	62.1	59.0	56.6	54.9	54.2	53.9
160°	72.2	71.1	68.4	65.3	62.1	59.4	57.0	55.2	53.9	53.2	53.2
162.5°	66.6	65.9	63.5	61.5	59.0	57.0	55.2	53.9	53.2	52.8	52.8
165°	62.5	61.8	60.1	58.3	57.0	55.2	54.2	53.2	52.5	52.5	52.5
167.5°	59.0	58.3	57.3	56.3	55.2	53.9	53.2	52.5	52.5	52.1	52.1
170°	56.3	55.9	54.9	54.2	53.5	52.8	52.5	52.1	51.8	51.8	51.8
172.5°	54.2	53.9	53.2	52.8	52.1	51.8	51.8	51.8	51.8	51.8	51.8
175°	52.5	52.1	52.1	51.8	51.4	51.4	51.1	51.4	51.4	51.4	51.4
177.5°	51.4	51.4	51.1	51.1	51.1	51.1	51.1	51.4	51.4	51.8	51.8
180°	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4

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

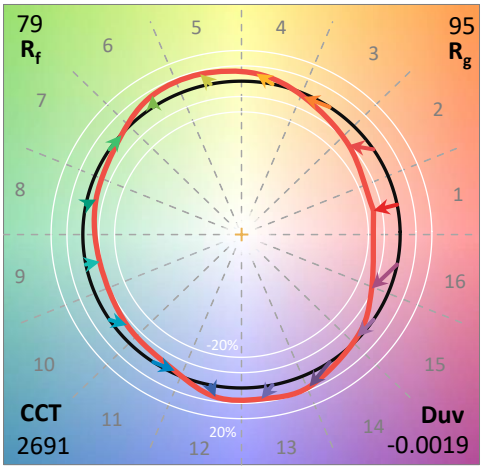
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

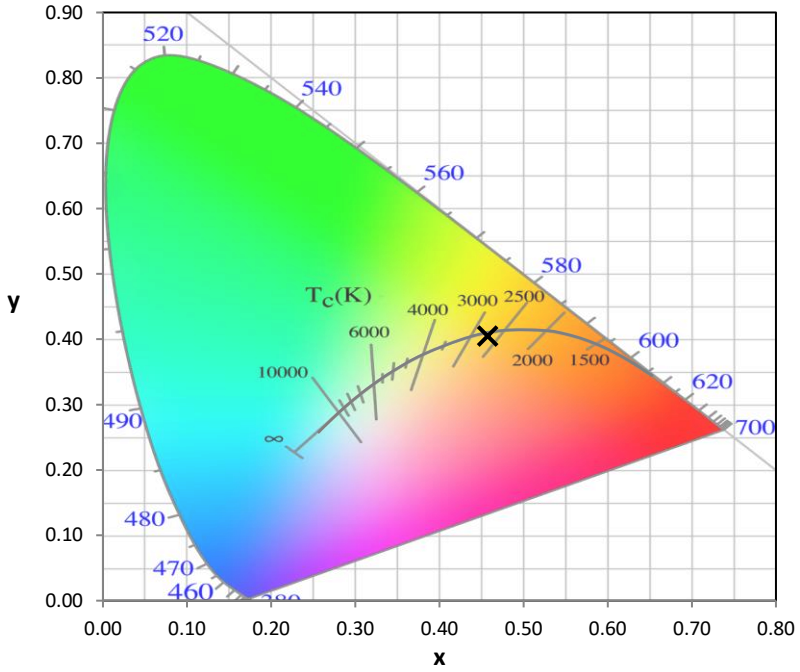
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

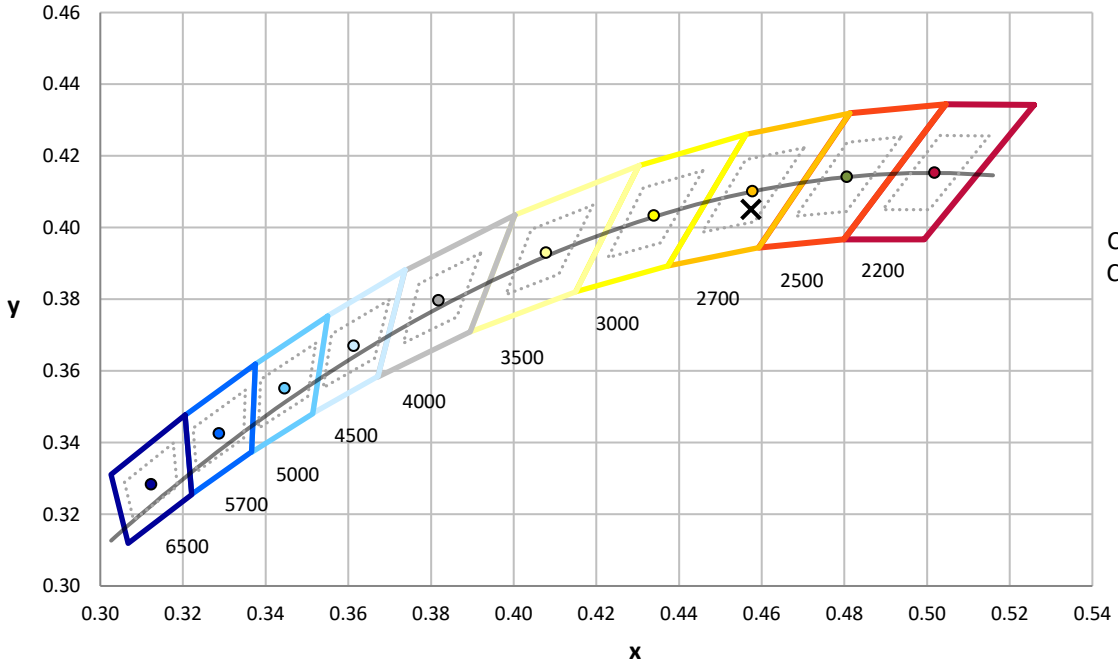
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

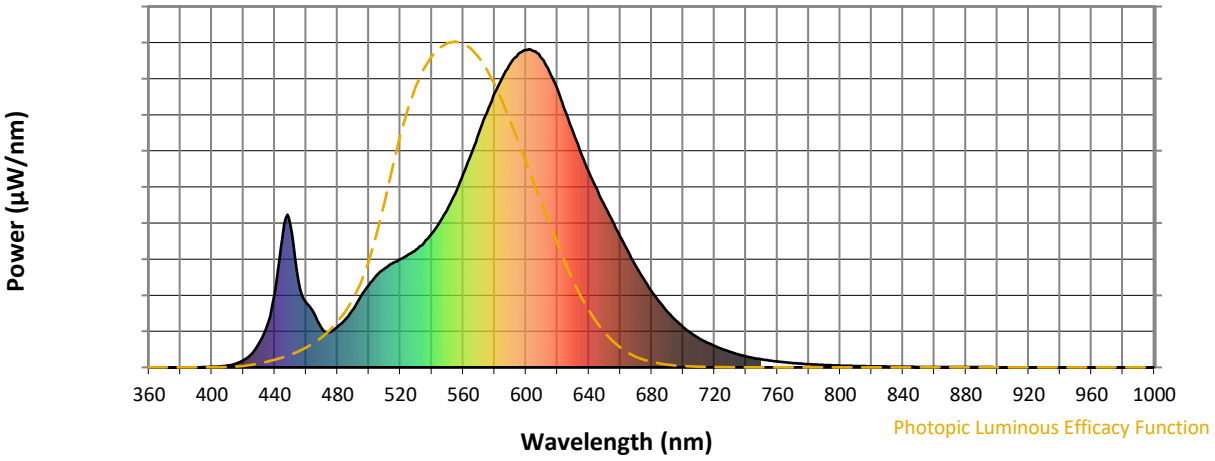


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

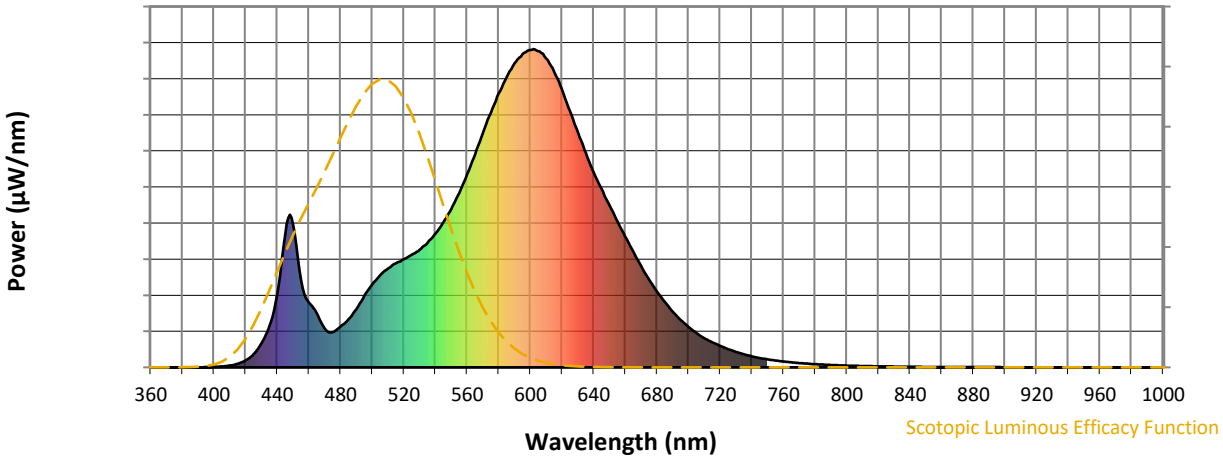


Photopic Lumens: NR

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

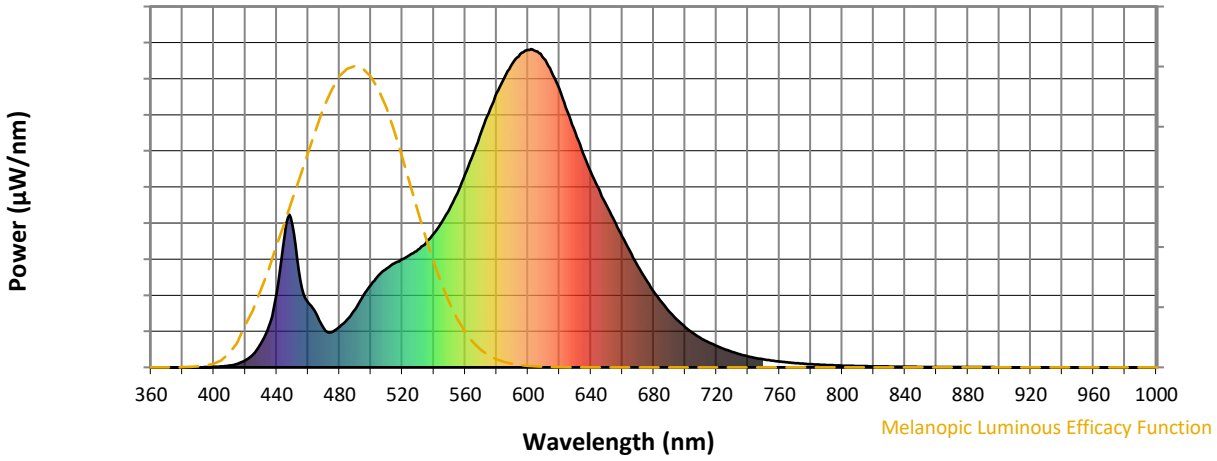


Scotopic Lumens: NR **S/P: 1.18**

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			

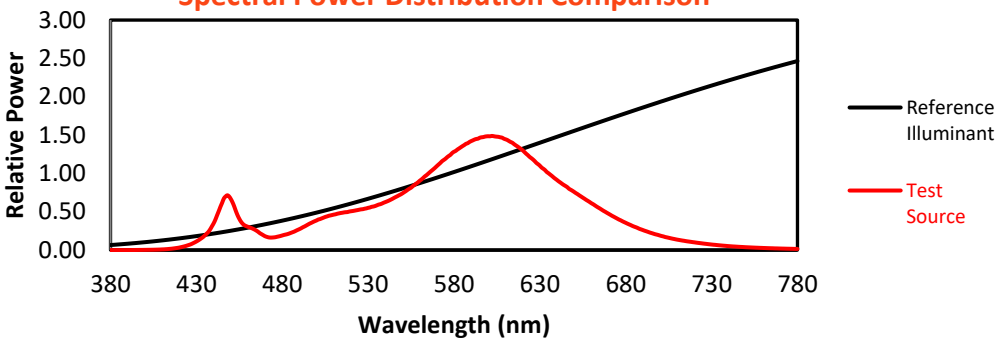
REPORT NUMBER: SP1-2501-332-8

TM-30-18

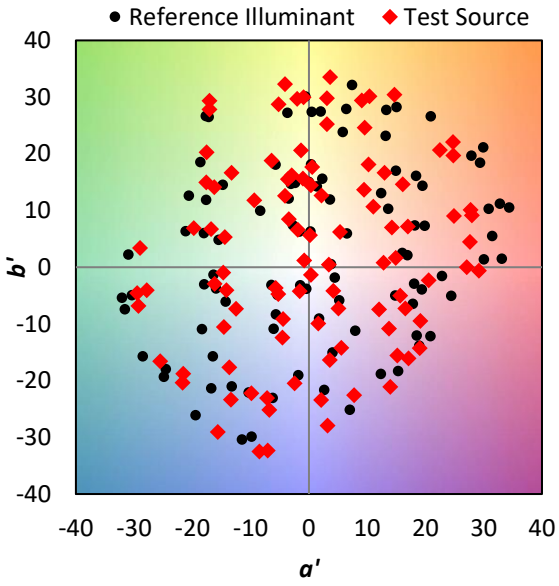
Summary

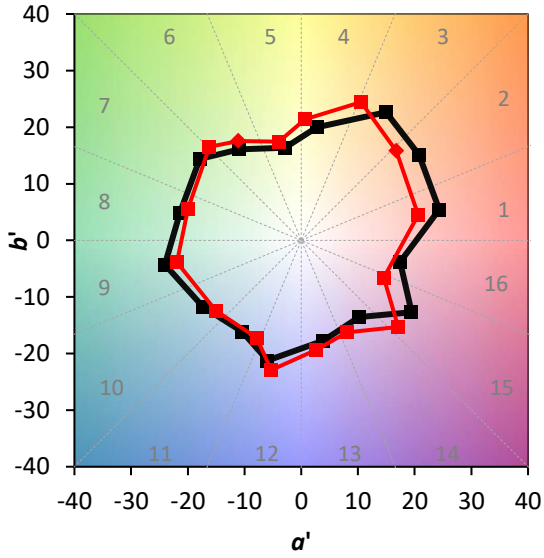
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

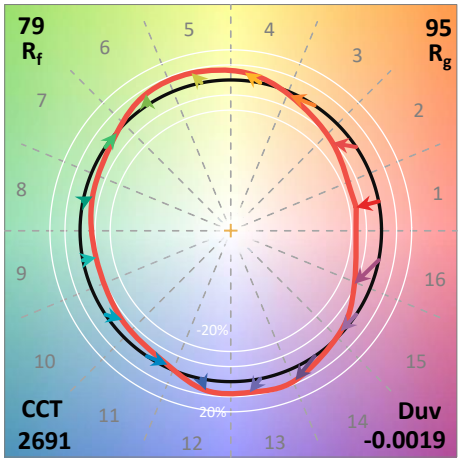
Spectral Power Distribution Comparison

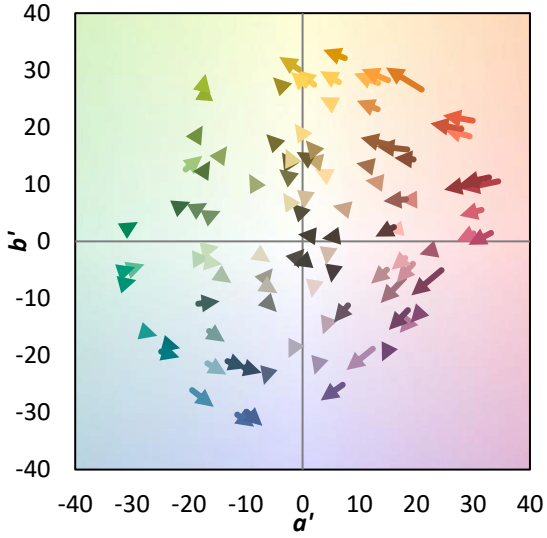


Color Vector Graphics







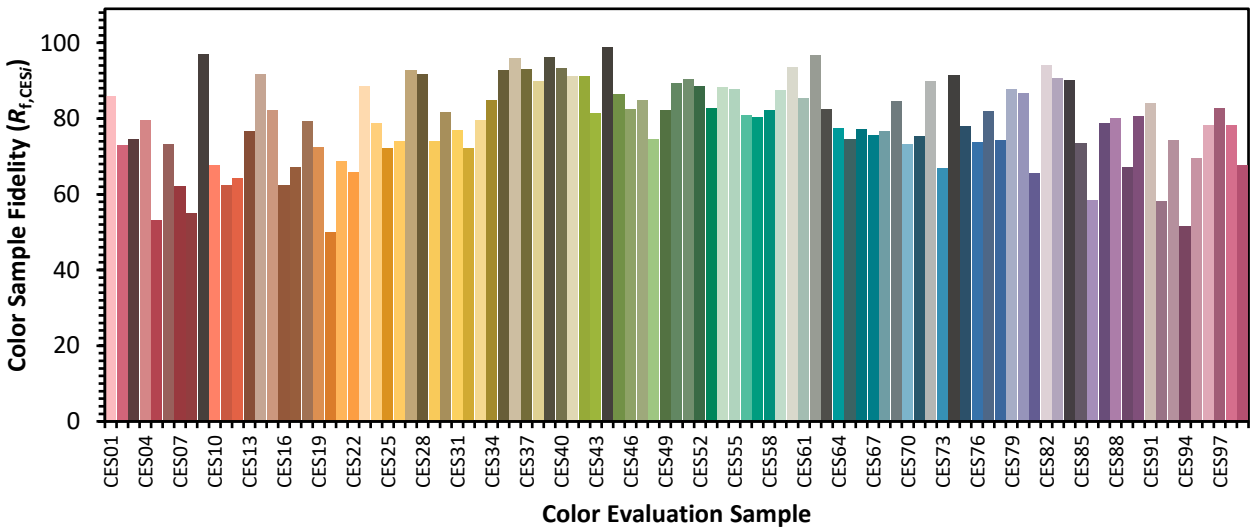


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

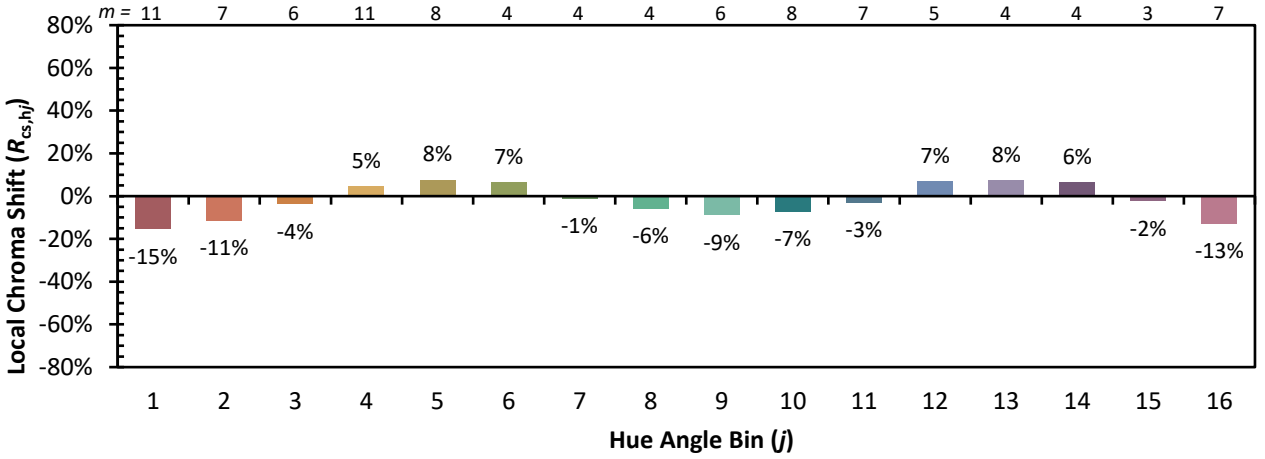
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 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	

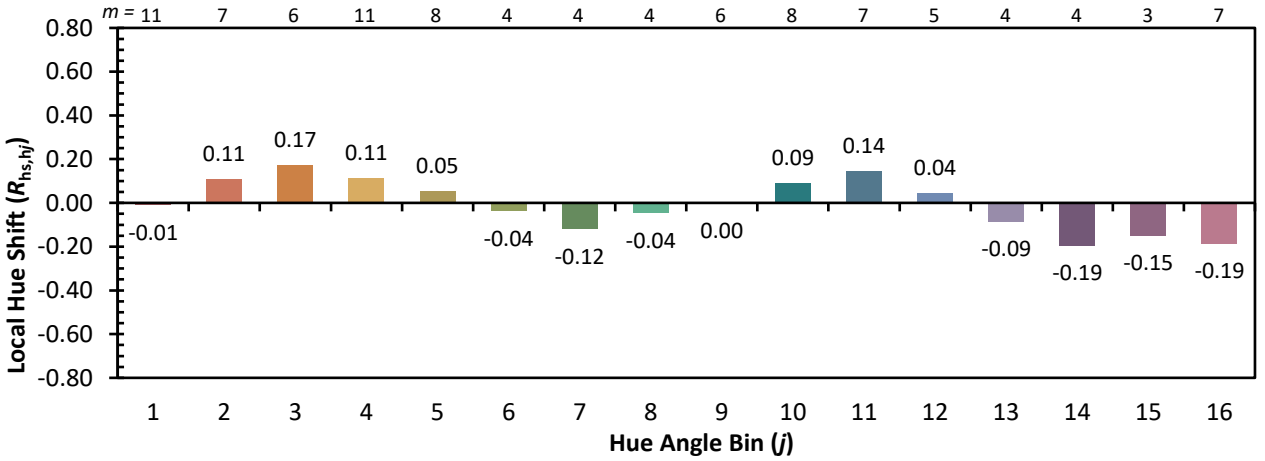


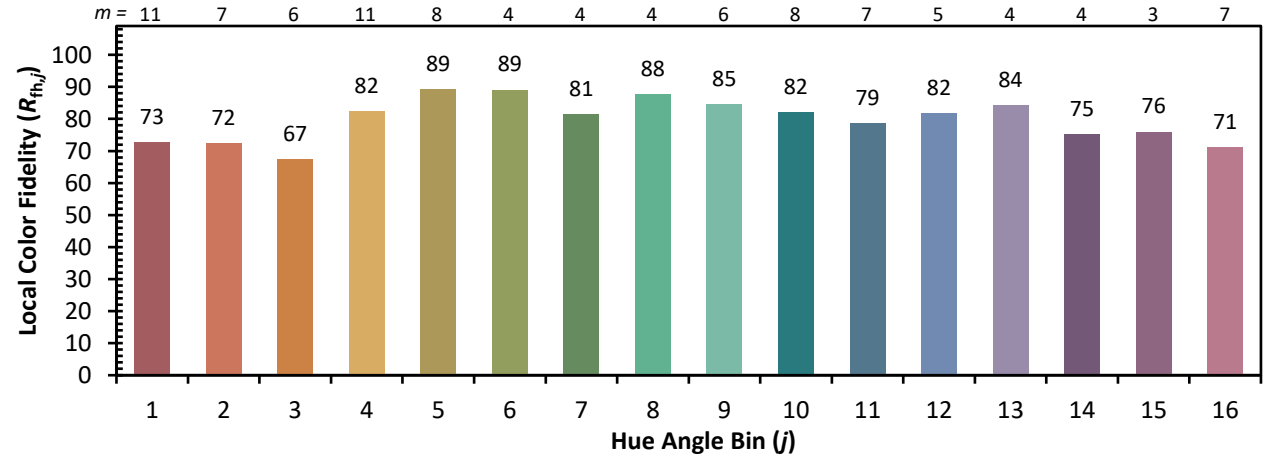
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Color Rendition by Hue-Angle Bin



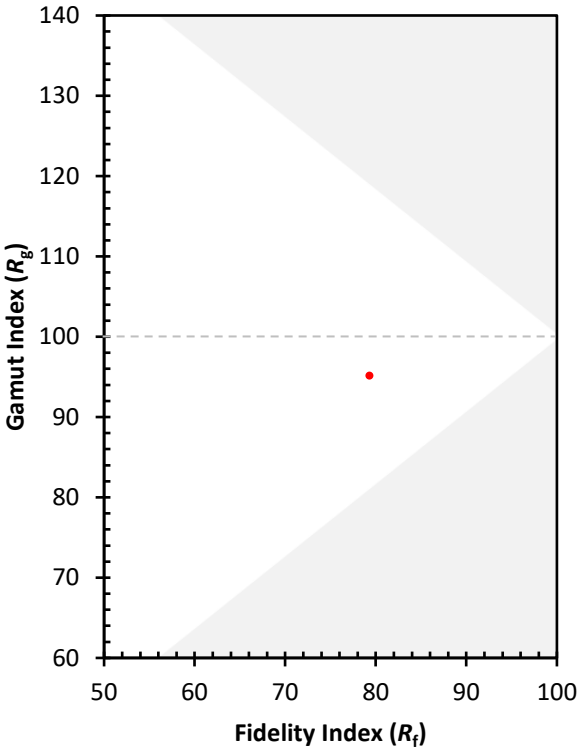


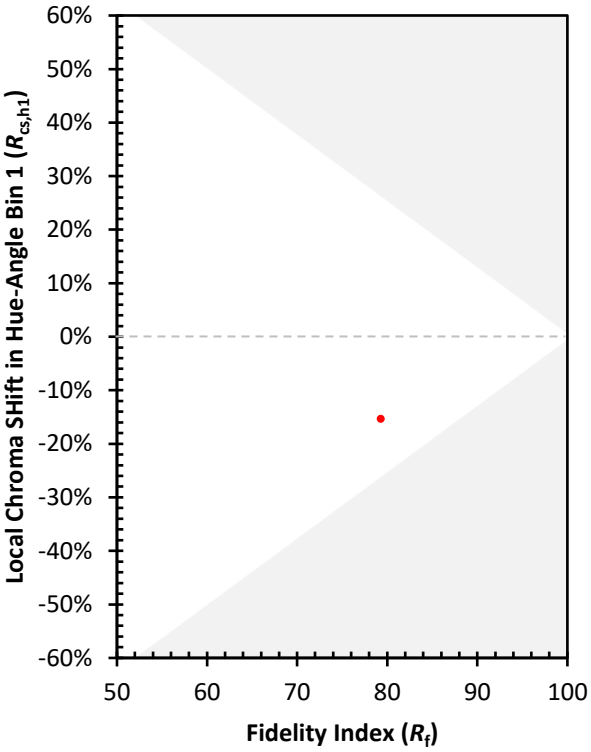


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Measure Comparisons





(END OF REPORT)