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: P1046602

Luminaire Tested: **FFX-CLB-40-727-U-FR-T3-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046602
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-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5275.7 lumens
Efficiency:	N/A
Efficacy:	133.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U3 - 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

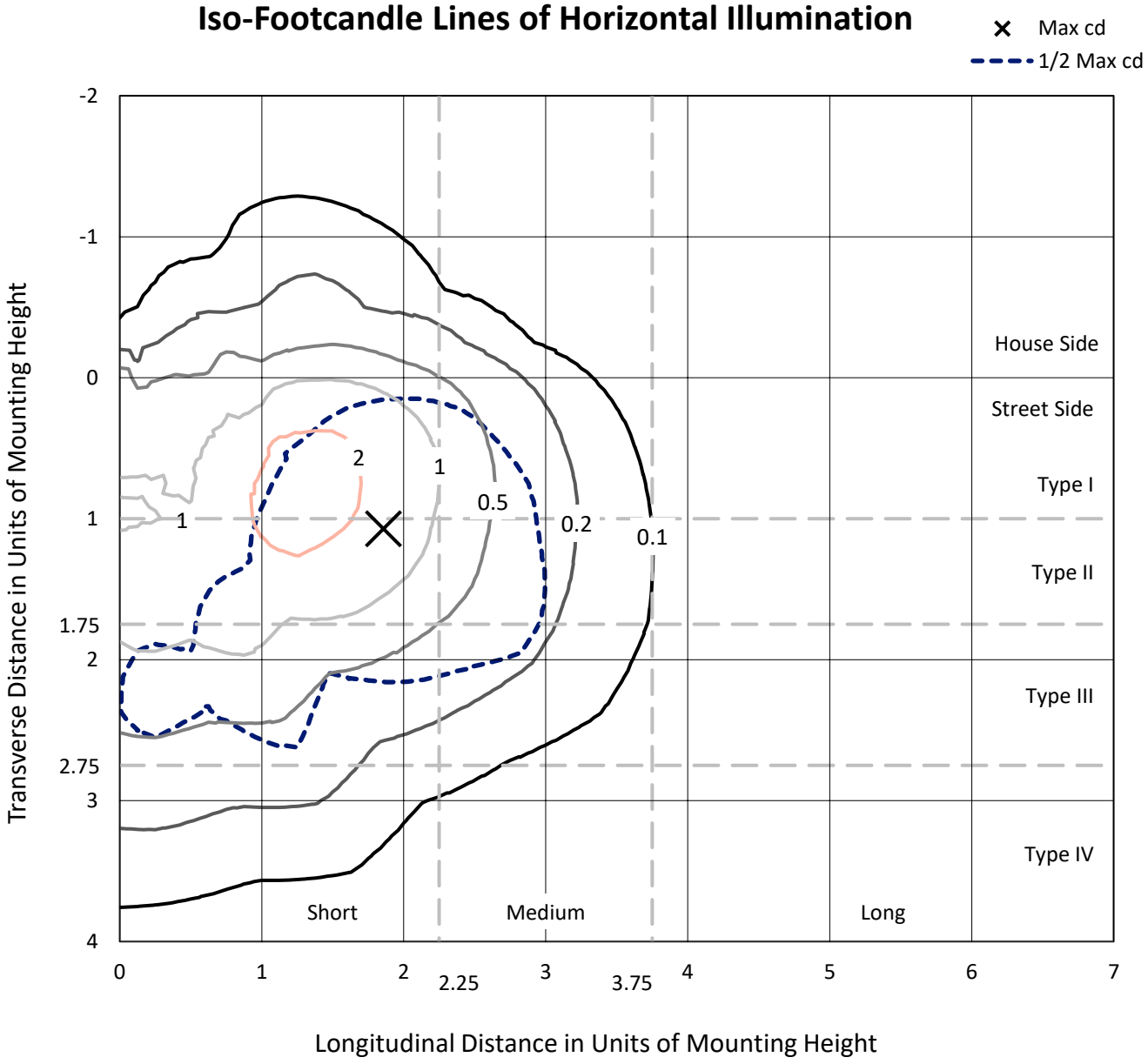


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Iso-Footcandle Lines of Horizontal Illumination



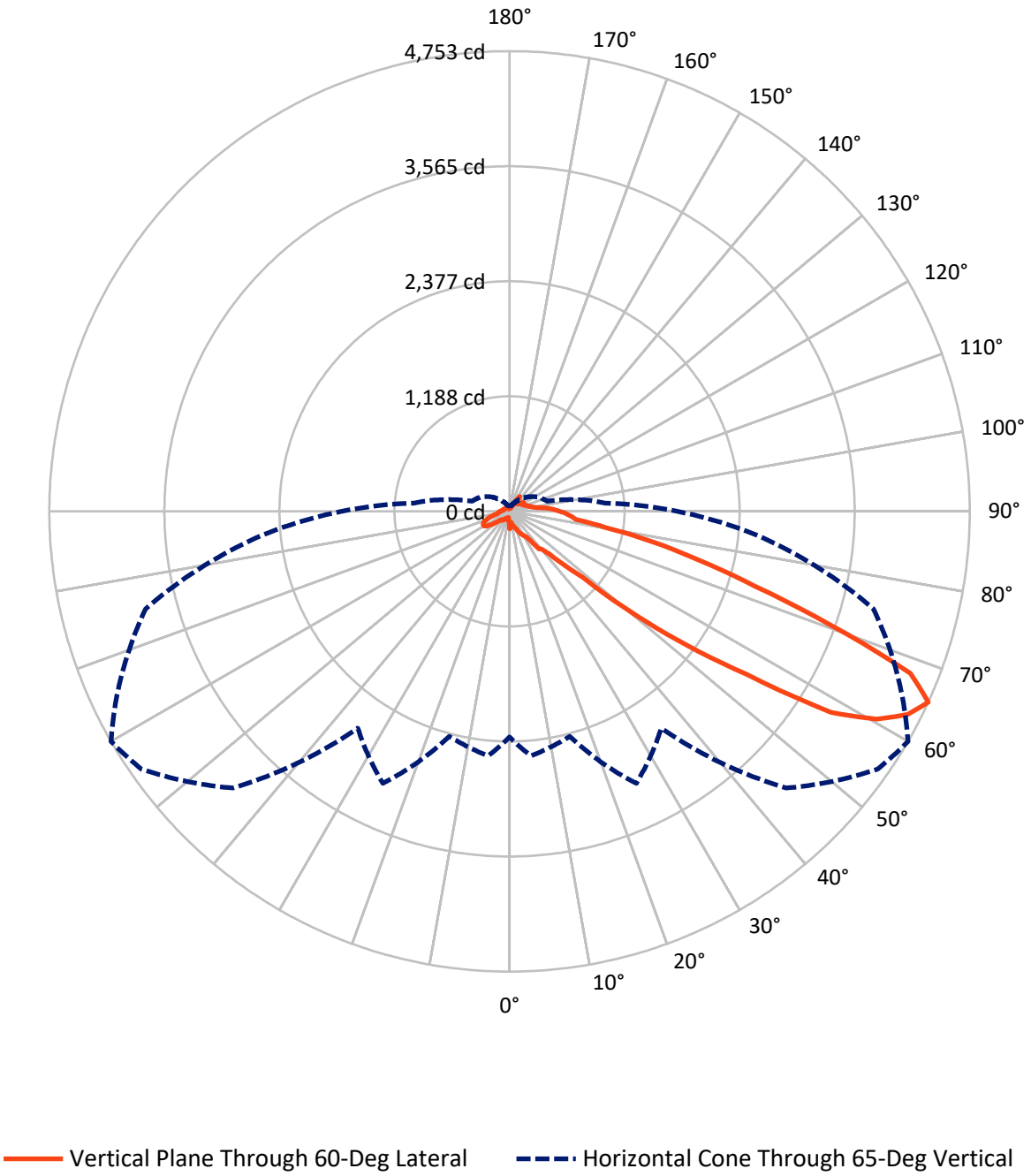
Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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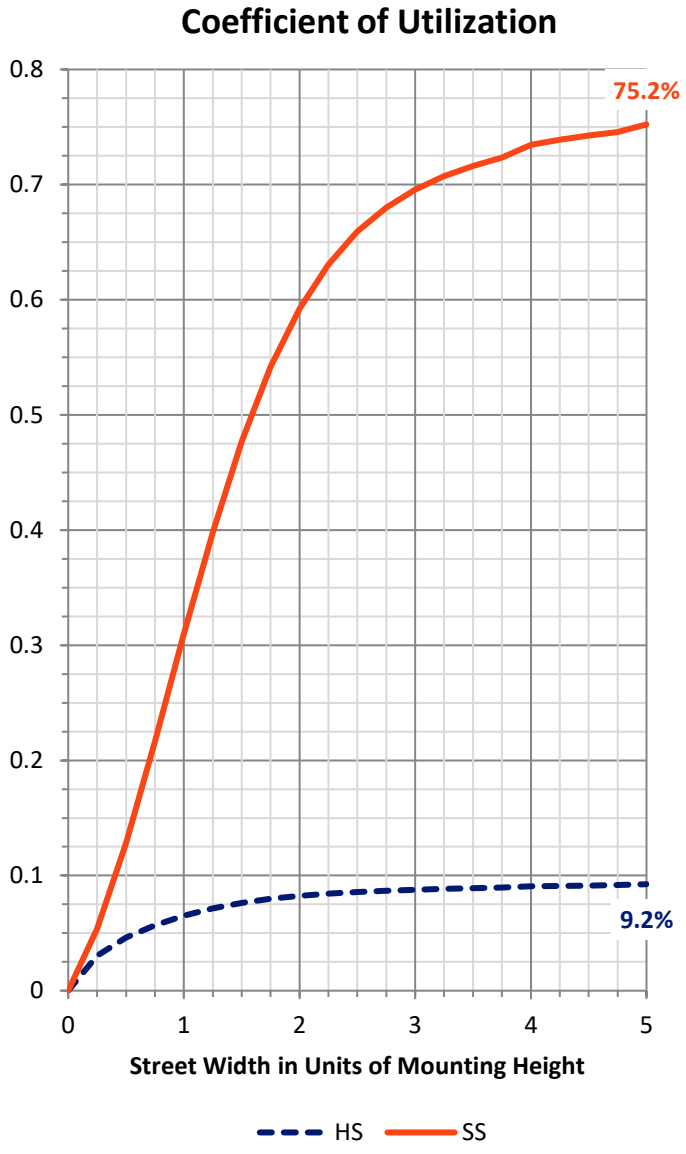
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	511.5	165.1	676.6
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	4111.0	488.0	4599.0
	% Fixture	77.9	9.2	87.2
Total	Lumens	4622.6	653.1	5275.7
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.2
10°-20°	33.8	0.6
20°-30°	72.2	1.4
30°-40°	148.2	2.8
40°-50°	347.2	6.6
50°-60°	1086.0	20.6
60°-70°	1700.4	32.2
70°-80°	899.5	17.1
80°-90°	325.7	6.2
90°-100°	196.4	3.7
100°-110°	123.0	2.3
110°-120°	99.4	1.9
120°-130°	83.0	1.6
130°-140°	60.4	1.1
140°-150°	55.5	1.1
150°-160°	23.1	0.4
160°-170°	9.2	0.2
170°-180°	3.0	0.1
0°-90°	4622.6	87.6
0°-180°	5275.7	100.0



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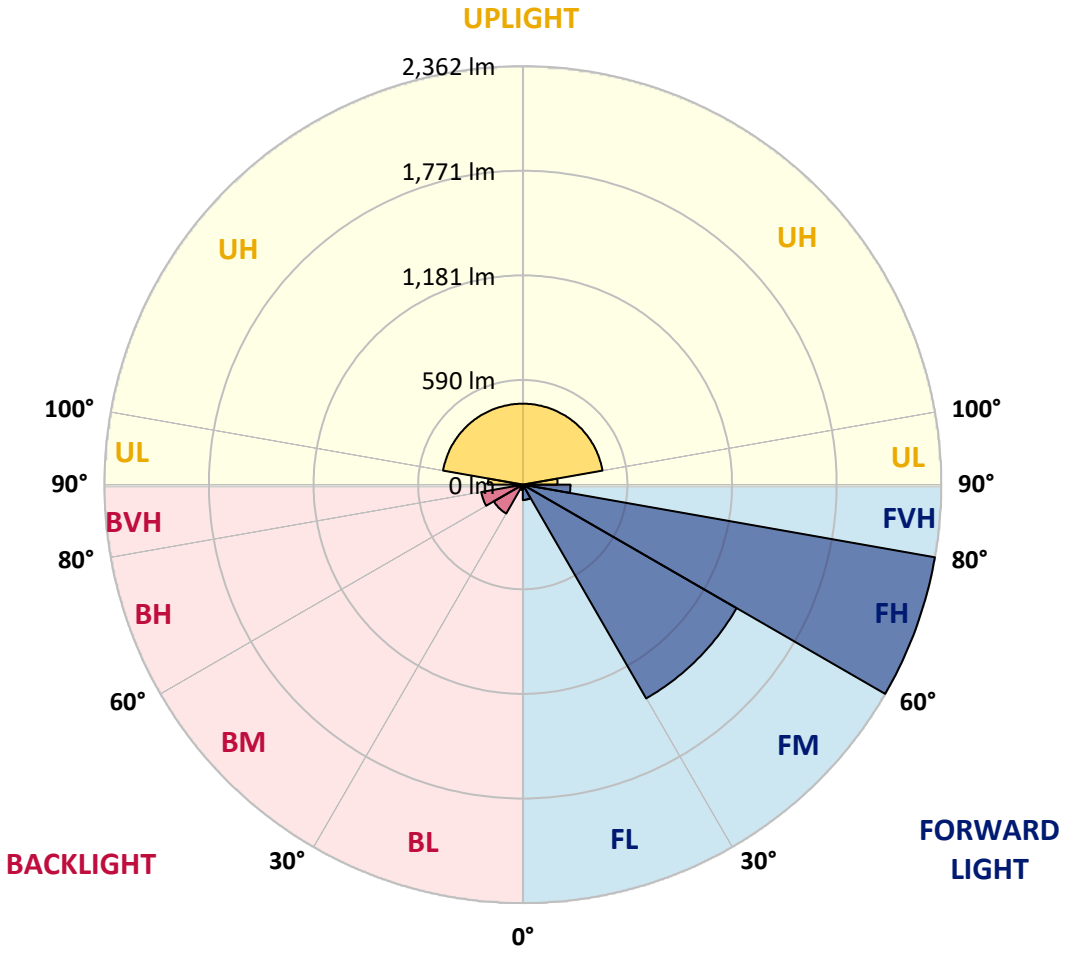
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	87.0	1.6			
FM	(30°-60°)	1393.2	26.4			
FH	(60°-80°)	2361.8	44.8			G2/5000
FVH	(80°-90°)	269.1	5.1			G3/500
BL	(0°-30°)	28.7	0.5	B0/110		
BM	(30°-60°)	188.1	3.6	B0/220		
BH	(60°-80°)	238.1	4.5	B1/500		G1/500
BVH	(80°-90°)	56.6	1.1			G1/100
UL	(90°-100°)	196.4	3.7		U3/500	
UH	(100°-180°)	456.7	8.7		U3/500	

BUG Rating: B1-U3-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6
2.5°	98.8	102.6	125.0	148.2	154.7	140.4	121.5	123.9	134.3	184.1	206.0
5°	115.8	116.9	115.0	117.7	133.9	154.3	142.4	128.5	110.0	79.5	78.7
7.5°	133.1	133.1	132.3	122.7	111.5	108.0	118.5	120.4	118.5	98.8	85.3
10°	145.1	145.1	144.7	145.5	146.2	142.4	125.4	118.8	111.9	103.4	99.5
12.5°	175.9	176.7	181.7	179.0	169.0	158.6	160.5	158.6	148.2	130.0	115.0
15°	215.3	216.8	217.6	207.6	191.4	172.1	159.7	156.7	154.7	144.3	129.3
17.5°	235.8	235.0	225.7	215.3	204.9	191.0	179.4	174.8	167.8	154.7	138.5
20°	233.4	233.4	224.2	221.9	222.6	214.1	199.5	193.7	186.0	173.6	151.3
22.5°	240.0	240.4	234.6	236.5	245.0	236.5	222.2	218.4	211.1	193.3	170.5
25°	265.1	265.1	258.5	255.8	263.1	260.1	252.0	247.3	236.9	215.3	175.2
27.5°	287.8	286.3	280.1	280.9	274.0	272.4	270.5	268.6	259.3	225.0	177.5
30°	305.6	305.6	300.2	303.7	289.0	291.3	284.4	289.8	277.8	238.1	186.4
32.5°	321.8	324.1	322.2	326.8	309.5	319.5	307.5	313.3	306.0	261.6	211.4
35°	359.2	361.9	370.8	382.4	361.2	371.6	352.7	360.8	353.4	314.9	259.7
37.5°	507.8	503.5	484.2	465.3	444.9	487.7	483.1	490.8	479.2	417.1	328.0
40°	510.9	508.5	504.7	492.7	454.1	496.6	498.5	512.4	547.1	447.6	354.6
42.5°	524.0	526.7	572.6	578.4	549.4	615.4	597.3	598.1	716.9	530.2	457.6
45°	606.2	606.2	620.8	628.2	619.7	809.1	806.4	783.3	933.0	661.3	538.3
47.5°	694.9	697.6	724.6	797.2	844.6	1024.0	1077.3	1021.7	1218.1	867.8	741.6
50°	954.6	960.0	1044.1	1107.8	1196.9	1499.0	1761.0	1676.5	1984.8	1323.8	1117.4
52.5°	1142.5	1209.6	1255.9	1495.6	1530.3	1994.5	2332.5	2303.5	2510.3	1832.4	1356.3
55°	1359.7	1464.3	1495.2	1866.7	1928.9	2573.6	2924.4	2975.7	2988.4	2368.7	1594.3
57.5°	1717.4	1879.5	1885.3	2278.1	2288.9	3244.2	3802.5	3915.6	3786.7	2993.0	1969.8
60°	2012.2	2202.0	2138.4	2673.2	2565.9	3786.7	4229.7	4357.8	4118.6	3526.7	2232.1
62.5°	2194.7	2378.0	2294.3	2951.0	2732.6	4019.4	4484.7	4616.3	4353.2	3810.3	2433.9
65°	2330.9	2534.3	2405.4	3099.1	2732.2	4040.2	4642.2	4753.3	4471.6	3891.7	2493.4
67.5°	2333.6	2516.1	2355.2	3046.3	2550.5	3710.3	4396.4	4466.6	4154.1	3602.7	2316.6
70°	2040.0	2171.2	1992.5	2570.9	2057.3	2815.9	3433.3	3516.6	3202.2	2769.6	1795.0
72.5°	1707.0	1758.3	1581.2	2056.2	1611.3	2131.0	2624.5	2655.8	2489.5	2074.7	1387.5
75°	1340.4	1320.8	1228.9	1533.0	1225.1	1509.8	2061.2	2031.1	1939.7	1526.8	1058.8
77.5°	894.4	857.7	862.4	1051.8	855.8	999.0	1501.0	1502.1	1470.1	1132.1	755.1
80°	545.6	546.7	531.7	667.1	564.9	664.0	1034.5	1000.5	1001.3	746.6	528.6
82.5°	426.7	433.7	414.8	480.8	444.9	528.2	676.0	694.9	674.5	548.3	389.3
85°	419.0	425.2	405.5	446.4	422.9	504.7	635.9	634.3	623.5	508.5	368.1
87.5°	383.9	391.3	376.6	405.1	387.0	467.3	585.3	577.6	567.2	478.5	351.1
90°	324.1	337.6	327.6	363.1	338.0	402.1	508.9	505.8	500.4	422.9	312.5
92.5°	294.8	297.5	290.2	322.2	294.4	352.3	451.8	442.2	430.2	366.9	266.2
95°	263.9	262.8	255.8	281.7	257.0	294.8	383.9	369.3	363.1	309.8	222.2
97.5°	211.4	211.8	208.4	226.1	208.4	235.4	288.2	282.8	270.5	231.5	170.2
100°	185.2	186.4	184.1	197.9	182.9	200.3	240.0	238.8	228.8	197.6	148.6
102.5°	175.2	175.6	178.6	187.1	172.9	185.6	218.8	219.2	212.6	184.1	139.7
105°	168.2	167.8	170.2	177.1	164.8	174.0	204.5	204.5	195.2	173.6	132.3
107.5°	162.8	162.1	165.9	171.7	163.2	165.9	189.5	191.0	182.1	161.7	125.8
110°	156.7	156.3	162.8	167.1	159.0	159.4	179.8	178.6	170.5	157.4	123.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	159.0	161.3	168.6	156.7	144.7	145.5	161.3	*163.2*	157.4	143.9	117.7
115°	157.0	159.4	169.0	152.0	134.3	138.9	152.0	*153.6*	145.1	133.9	110.7
117.5°	150.1	150.9	156.7	152.4	133.9	139.3	145.9	*148.6*	142.4	133.9	111.9
120°	177.5	171.7	171.7	165.1	144.3	154.0	166.3	*168.6*	162.8	147.0	111.5
122.5°	163.2	161.3	161.7	153.2	142.8	150.9	165.5	*169.4*	164.4	148.6	111.5
125°	128.5	128.9	126.9	129.6	125.4	128.1	135.8	*142.0*	137.4	128.9	106.1
127.5°	116.9	116.5	114.2	125.8	112.7	118.1	125.4	*128.9*	124.2	114.6	96.1
130°	113.8	113.8	120.4	132.3	124.6	122.3	119.6	*123.1*	122.3	116.1	96.1
132.5°	106.5	106.9	116.5	132.0	128.9	118.1	108.4	*110.4*	113.8	115.4	101.5
135°	106.5	105.3	102.3	105.7	103.8	106.5	103.8	*106.5*	107.3	106.5	88.7
137.5°	113.4	112.7	105.0	100.3	100.7	109.2	109.6	*110.7*	109.6	103.4	86.0
140°	111.1	108.4	103.0	101.1	101.5	110.4	113.8	*114.6*	113.4	101.5	81.0
142.5°	107.3	107.3	108.8	111.1	114.6	155.9	145.1	*155.1*	155.5	143.2	83.3
145°	154.0	155.5	150.9	145.9	158.2	187.5	176.3	*187.1*	194.5	181.0	115.0
147.5°	138.9	141.2	138.5	134.3	150.5	150.9	143.9	*145.1*	147.0	150.1	116.1
150°	98.4	95.7	99.9	96.8	113.1	112.3	102.6	*105.0*	109.2	109.6	92.6
152.5°	72.9	71.8	71.0	70.6	81.4	74.9	71.4	*70.2*	71.0	70.6	66.4
155°	64.4	64.4	64.1	66.0	71.8	67.1	63.7	*64.1*	62.1	61.0	58.6
157.5°	50.2	49.0	50.2	53.6	55.9	51.7	50.5	*49.8*	49.4	47.5	48.2
160°	41.3	41.3	42.1	44.8	46.3	43.2	40.9	*40.1*	40.1	39.4	42.1
162.5°	35.1	35.1	35.9	36.7	37.4	35.9	35.1	*35.1*	34.7	34.7	37.4
165°	29.3	29.3	29.7	31.3	31.6	30.9	30.5	*30.9*	30.9	32.4	34.7
167.5°	27.0	27.0	27.4	28.2	28.6	28.2	29.3	*30.5*	31.6	33.2	34.0
170°	25.9	25.9	26.2	26.6	27.4	28.2	30.5	*31.3*	31.6	31.3	31.3
172.5°	26.6	26.6	26.6	27.4	28.2	30.1	32.0	*32.0*	31.3	30.5	30.5
175°	27.0	26.6	27.0	27.8	28.9	30.1	30.9	*31.6*	31.6	31.3	31.3
177.5°	26.6	26.6	27.0	27.4	27.4	27.4	27.8	*28.2*	28.2	28.6	28.9
180°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	*26.2*	26.2	26.2	26.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6
2.5°	201.8	190.6	141.2	93.8	115.0	167.8	195.6	183.3	136.6	78.7	66.8
5°	82.6	92.6	108.0	103.4	93.0	76.4	57.5	57.1	79.1	96.1	97.6
7.5°	79.5	72.9	69.1	76.4	71.4	49.4	41.7	34.7	37.0	54.4	52.1
10°	98.0	95.7	89.1	72.9	53.6	44.4	41.7	42.4	45.5	40.9	40.5
12.5°	109.2	103.4	89.1	84.5	71.8	50.9	42.1	39.0	41.7	52.1	56.3
15°	119.6	111.1	93.4	78.3	64.4	52.9	45.1	39.4	35.1	30.5	30.1
17.5°	128.9	118.1	98.4	81.4	64.1	52.9	43.6	34.3	29.7	28.2	28.2
20°	140.1	130.0	105.0	84.9	64.4	51.7	42.1	34.0	29.7	28.2	28.2
22.5°	155.1	138.5	111.9	86.4	65.2	51.3	41.3	34.7	30.9	28.6	28.6
25°	159.4	146.6	116.5	91.4	68.3	53.2	43.2	35.9	31.6	29.7	29.3
27.5°	162.4	152.8	125.4	95.7	71.8	57.1	46.3	37.4	32.4	30.5	30.1
30°	174.4	165.9	135.0	101.9	76.4	61.0	49.0	39.7	34.0	30.9	30.1
32.5°	199.9	187.9	149.3	108.0	82.2	65.2	52.5	42.1	35.5	31.6	30.9
35°	248.5	238.8	187.1	120.8	88.4	70.6	56.7	45.1	37.4	32.8	32.4
37.5°	304.8	289.8	227.3	140.4	92.6	75.2	61.0	48.2	39.4	34.7	34.0
40°	314.5	271.6	201.4	128.1	93.4	77.6	64.8	51.7	41.7	36.3	35.1
42.5°	394.3	333.4	233.4	132.3	95.3	77.6	65.6	54.0	44.0	37.4	36.7
45°	417.1	332.2	232.3	147.8	104.6	79.9	66.0	55.2	45.9	39.4	38.2
47.5°	531.7	407.5	235.8	157.0	114.2	88.0	68.7	55.9	46.3	40.5	40.1
50°	760.1	544.8	283.6	189.5	137.0	102.6	77.2	58.6	47.1	41.7	41.3
52.5°	938.8	647.1	304.4	226.9	174.4	130.4	92.2	65.6	48.6	42.1	41.3
55°	1115.9	771.7	343.0	267.8	207.6	157.0	114.6	76.8	52.5	42.8	42.1
57.5°	1386.0	926.4	390.9	307.9	246.2	182.1	128.1	86.8	57.1	43.6	42.4
60°	1550.0	981.2	395.9	328.4	268.2	199.9	132.7	90.7	62.9	46.7	44.8
62.5°	1697.4	1030.6	399.4	337.6	272.0	201.8	133.1	87.6	64.1	51.3	49.0
65°	*1735.5*	*990.5*	*402.8*	*340.7*	*265.1*	*190.6*	*128.1*	*84.5*	*61.0*	*55.6*	*55.2*
67.5°	1649.1	888.2	378.9	329.1	246.6	171.3	115.4	80.3	59.4	54.0	55.2
70°	1284.9	705.3	347.3	303.3	213.0	144.7	102.6	74.9	58.6	51.3	50.2
72.5°	1012.5	600.0	350.7	289.0	179.8	128.1	90.7	68.3	55.6	50.2	49.4
75°	788.7	502.8	337.6	248.9	145.9	109.2	79.5	61.0	51.7	48.2	47.8
77.5°	578.4	399.0	278.6	191.8	120.4	91.1	69.5	55.9	49.0	45.9	45.5
80°	379.3	282.1	194.1	153.2	103.8	82.2	63.3	52.5	47.1	44.4	44.0
82.5°	322.6	250.4	172.5	140.8	96.1	79.1	62.1	51.3	46.7	43.6	43.2
85°	311.0	256.6	176.3	145.9	91.4	75.6	60.2	50.5	45.5	42.8	42.4
87.5°	292.1	232.3	170.5	130.8	84.5	69.1	56.3	48.6	43.6	41.3	40.5
90°	260.1	198.7	146.6	112.3	80.3	64.8	53.2	46.3	42.4	40.1	39.4
92.5°	209.9	150.9	115.4	99.2	78.3	64.4	52.9	46.3	42.4	40.1	39.4
95°	176.3	129.3	103.4	90.7	72.9	61.0	50.5	44.8	41.3	39.0	39.0
97.5°	139.7	108.0	92.2	81.4	65.6	55.6	47.8	42.8	39.7	37.4	37.4
100°	123.9	100.3	87.6	76.4	62.1	52.5	46.7	41.7	39.0	36.3	36.3
102.5°	117.7	97.2	86.4	72.5	59.4	50.5	44.8	40.1	37.8	35.1	35.1
105°	113.8	96.1	85.7	70.6	56.7	48.2	42.8	38.2	36.3	34.3	34.0
107.5°	110.0	94.5	86.8	69.5	54.4	46.7	42.8	37.8	35.5	34.0	34.0
110°	108.0	95.3	86.4	68.3	53.6	46.3	42.4	38.2	36.3	34.7	34.3

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

Scaled Data Report

REPORT NUMBER: P1046602
CATALOG NUMBER: FFX-CLB-40-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	103.0	91.1	82.6	64.8	52.5	45.1	40.9	37.8	35.1	33.6	33.2
115°	98.0	83.7	75.6	61.7	49.8	43.6	39.7	36.7	34.0	32.8	32.8
117.5°	99.9	81.8	69.5	60.6	49.0	42.4	39.0	35.9	33.6	32.8	32.4
120°	98.8	86.0	77.9	64.8	48.6	41.3	38.2	35.1	33.2	32.8	32.8
122.5°	94.5	93.0	85.7	66.0	47.1	41.7	39.0	36.3	34.3	33.2	33.2
125°	91.1	90.3	79.9	59.4	48.2	43.2	40.9	38.2	37.0	35.9	35.5
127.5°	84.1	75.6	66.4	57.1	49.0	44.0	41.7	40.1	39.0	37.0	36.7
130°	84.5	77.6	68.3	57.5	47.1	43.2	42.1	40.5	38.6	35.5	35.1
132.5°	91.8	84.5	67.9	53.2	45.1	43.2	42.4	40.5	36.3	32.8	32.4
135°	76.4	71.4	60.2	50.9	45.9	44.8	44.4	40.1	34.0	31.6	31.3
137.5°	74.5	67.1	57.9	51.3	47.8	45.5	44.0	38.6	31.6	29.3	28.6
140°	70.2	63.3	56.7	52.1	46.3	38.6	35.1	32.4	29.3	27.4	27.0
142.5°	70.2	63.7	53.6	45.9	40.1	35.9	34.0	31.6	28.2	25.5	24.7
145°	83.0	75.2	64.8	58.3	52.1	45.5	39.0	32.0	26.2	22.8	22.4
147.5°	94.1	84.9	76.8	66.0	55.9	45.1	35.9	28.2	23.9	22.4	22.4
150°	77.2	68.7	64.4	55.2	46.3	37.0	30.5	26.2	23.9	23.2	23.2
152.5°	57.9	48.6	45.5	40.5	35.1	30.5	27.4	25.1	24.3	23.9	23.9
155°	54.0	46.3	42.4	37.8	32.4	28.6	26.6	25.5	24.7	24.3	24.3
157.5°	47.1	42.8	37.8	34.3	30.5	27.8	26.6	25.9	25.1	24.7	24.7
160°	42.1	39.0	34.3	31.6	28.9	27.8	27.8	27.4	26.2	25.9	25.9
162.5°	37.8	36.7	32.4	30.1	28.9	29.3	31.3	30.9	28.9	27.4	27.0
165°	35.1	34.0	30.9	29.7	28.9	30.5	34.3	33.6	30.5	28.6	28.6
167.5°	33.6	32.8	30.5	29.3	29.7	32.8	36.3	36.7	34.0	31.3	30.9
170°	30.9	30.9	30.5	30.9	30.9	32.4	34.3	35.5	35.5	36.3	35.9
172.5°	30.5	30.9	32.0	32.0	31.6	32.0	33.6	35.5	36.7	37.8	38.2
175°	31.3	31.6	32.4	32.8	32.8	33.6	35.9	37.4	38.2	37.8	37.8
177.5°	28.9	29.3	29.7	31.3	32.0	32.8	35.1	35.9	36.7	37.4	37.4
180°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2

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

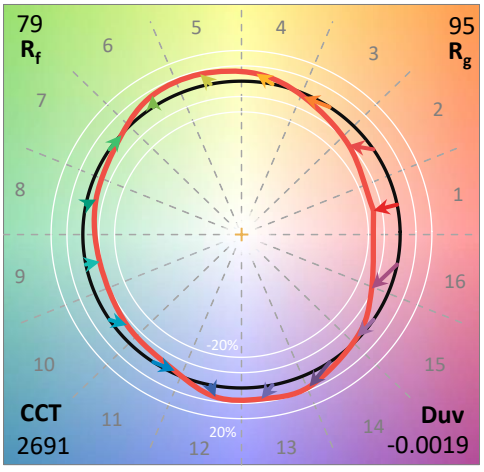
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

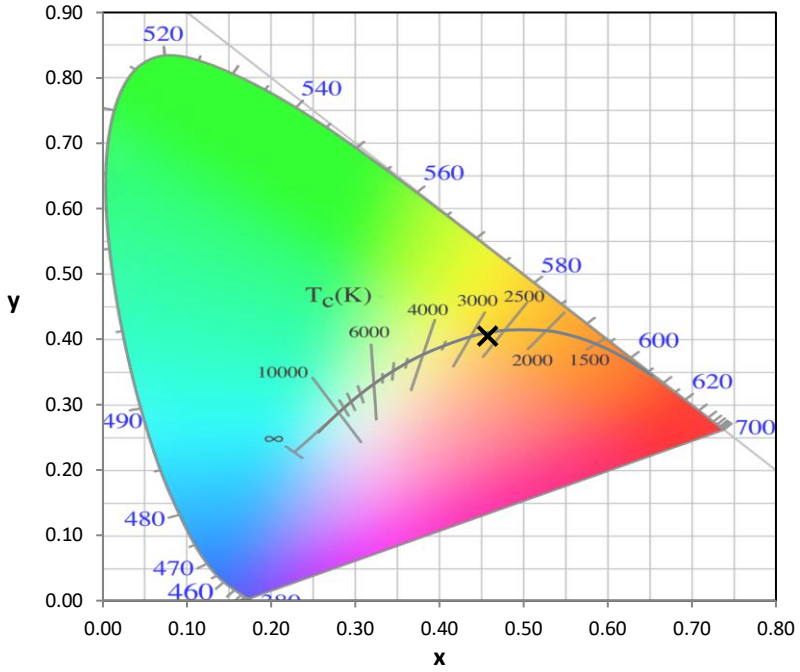
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

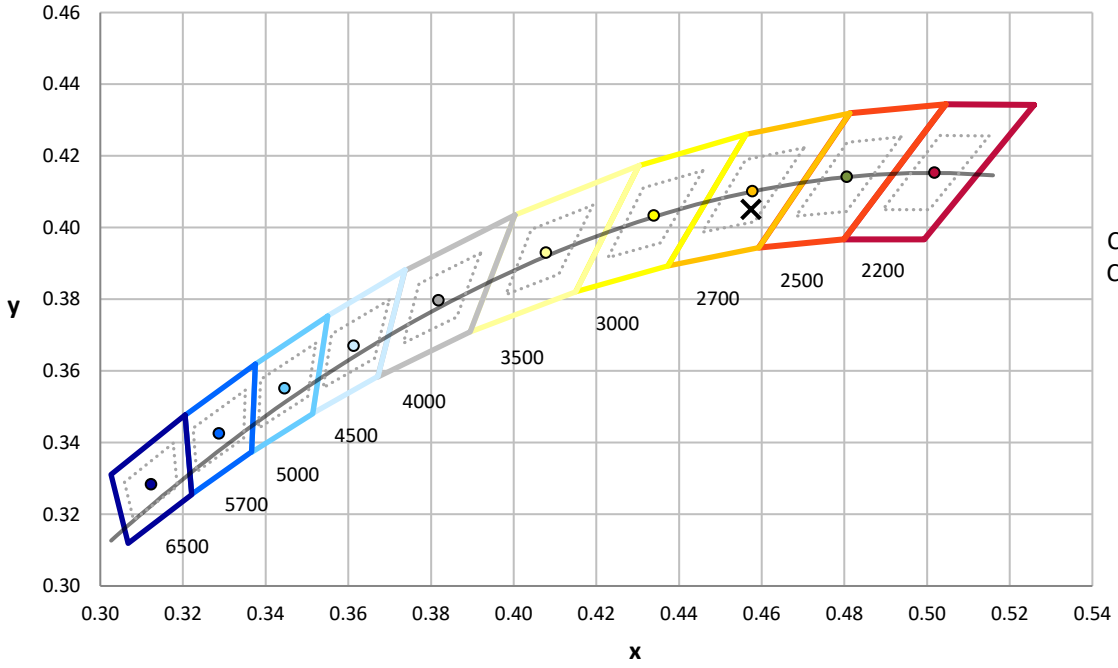
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

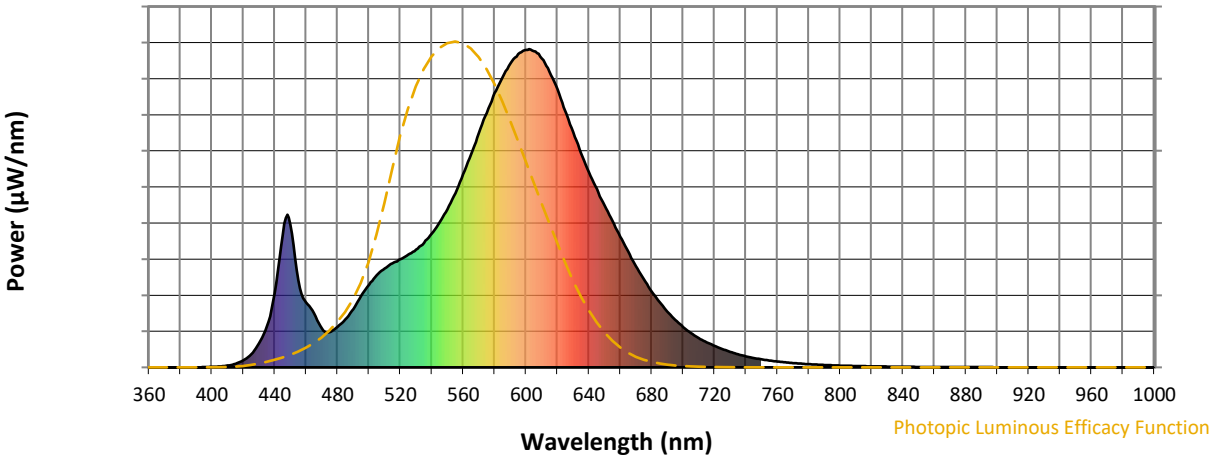


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

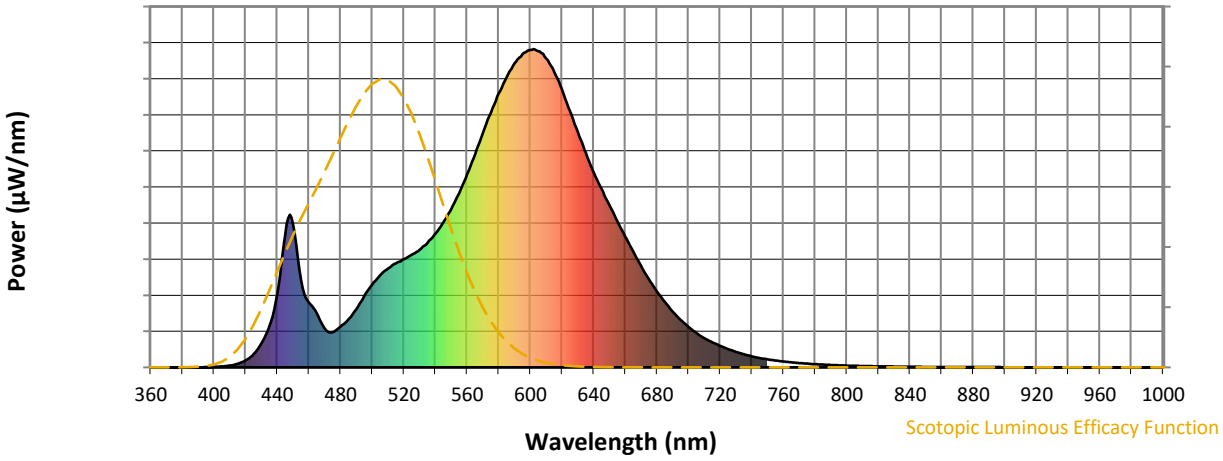


Photopic Lumens: NR

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

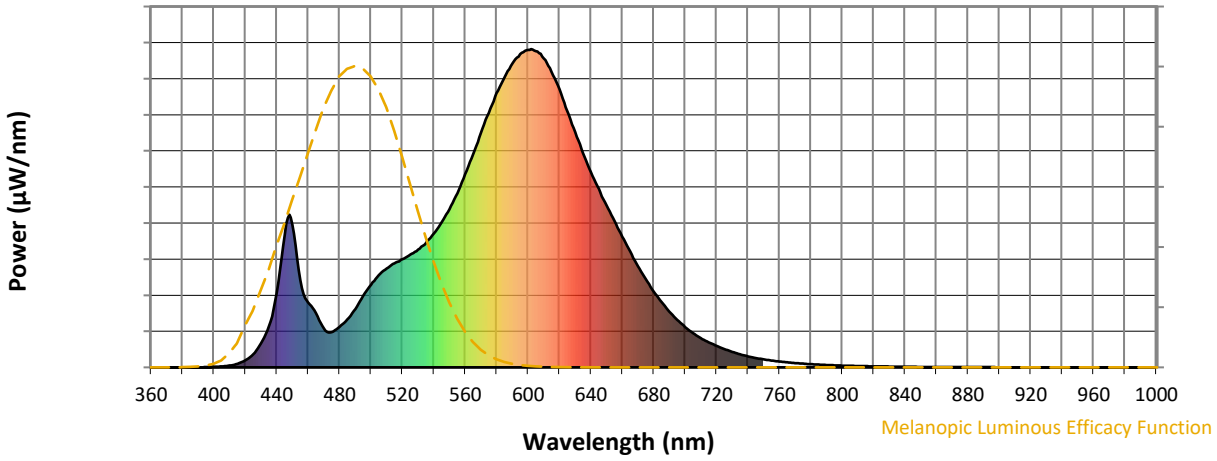


Scotopic Lumens: NR **S/P: 1.18**

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			

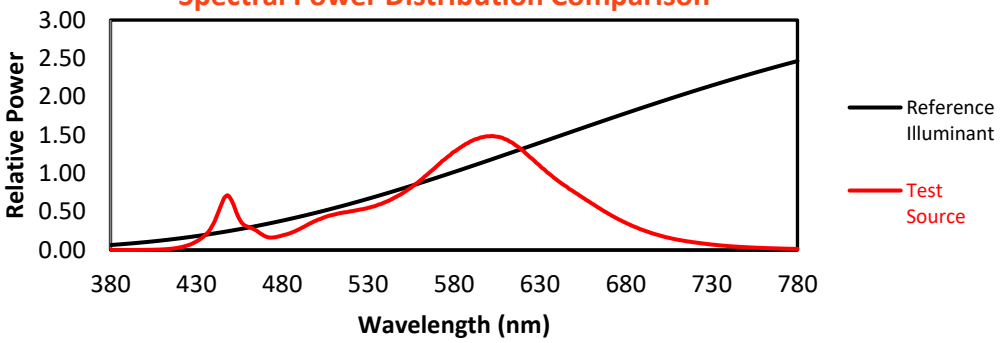
REPORT NUMBER: SP1-2501-332-8

TM-30-18

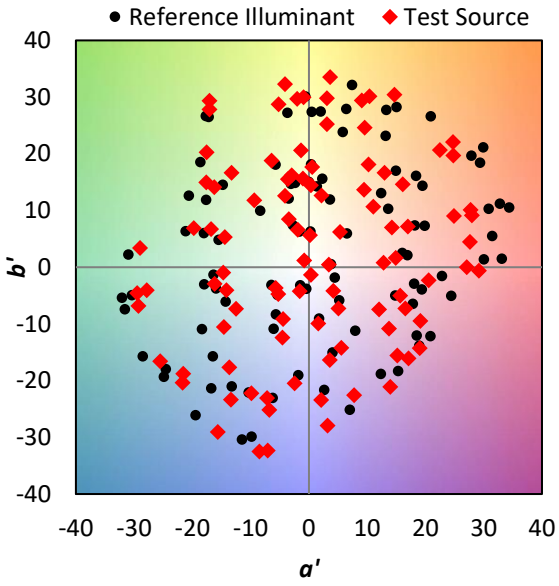
Summary

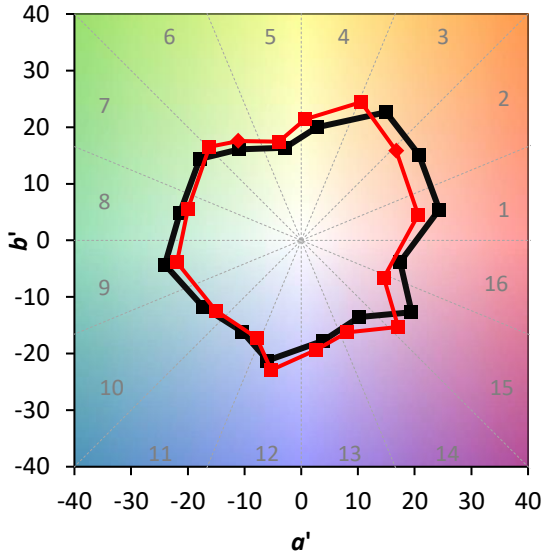
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

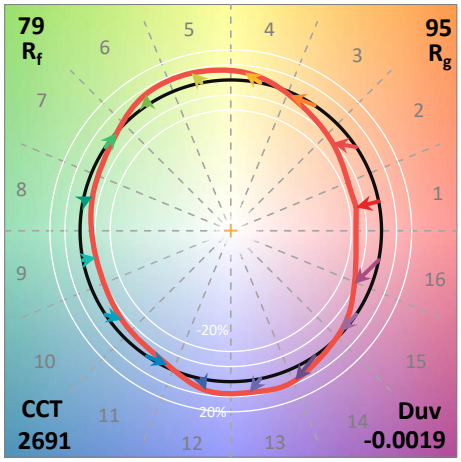
Spectral Power Distribution Comparison

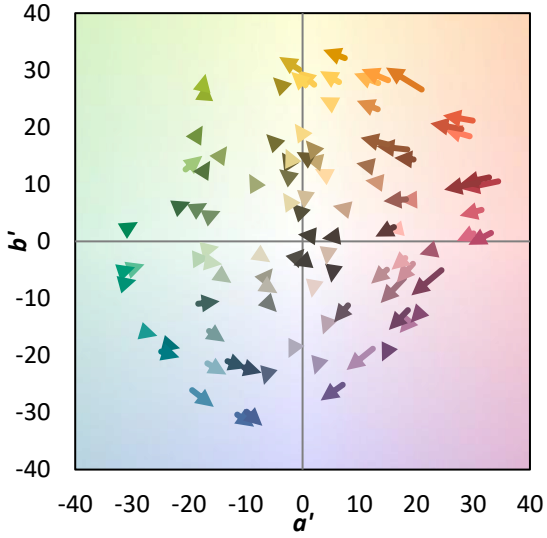


Color Vector Graphics







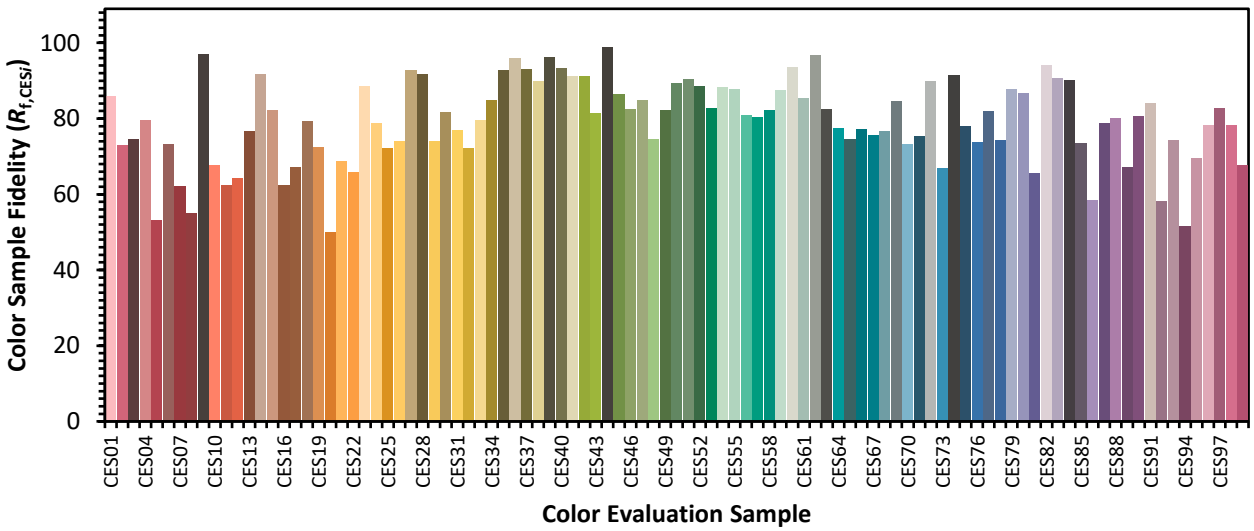


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

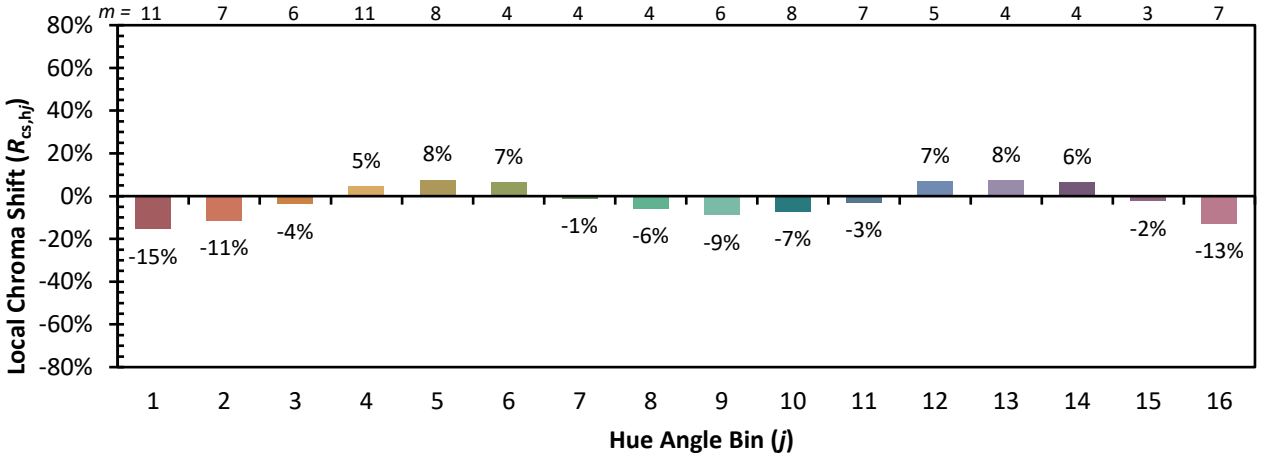
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CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 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	

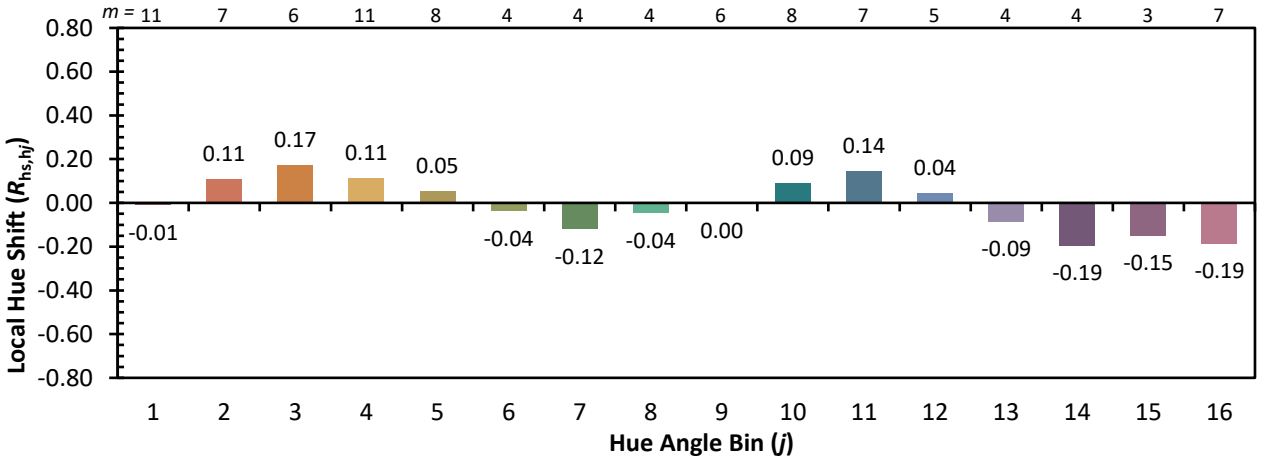


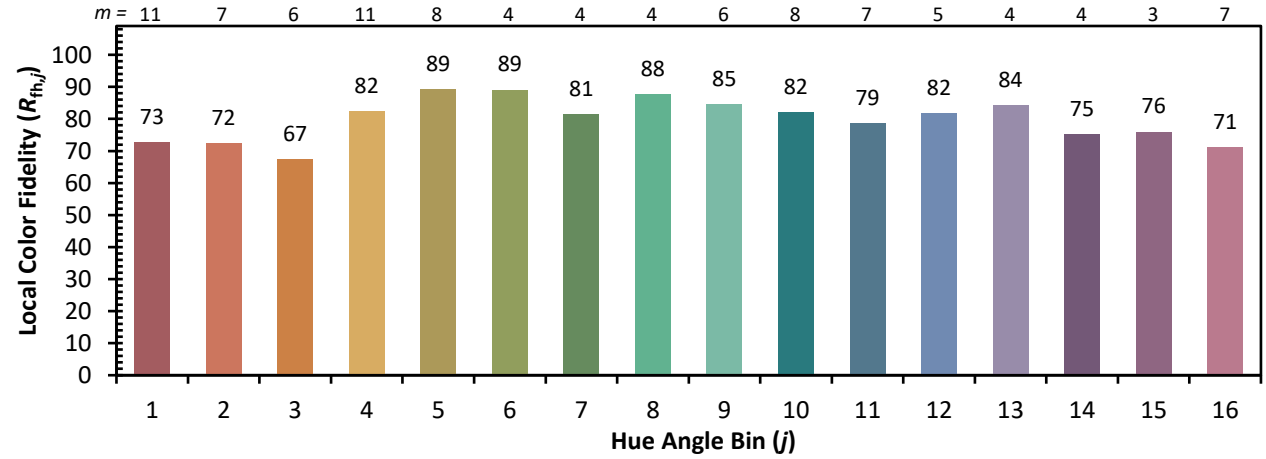
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Color Rendition by Hue-Angle Bin



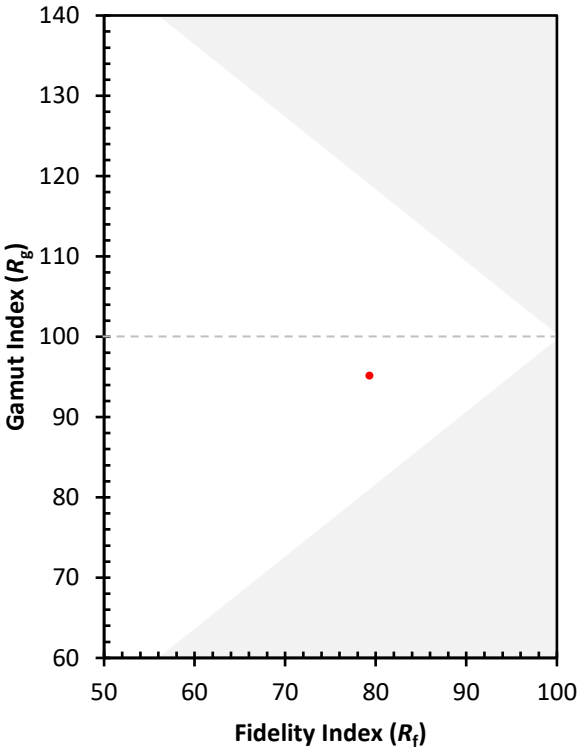


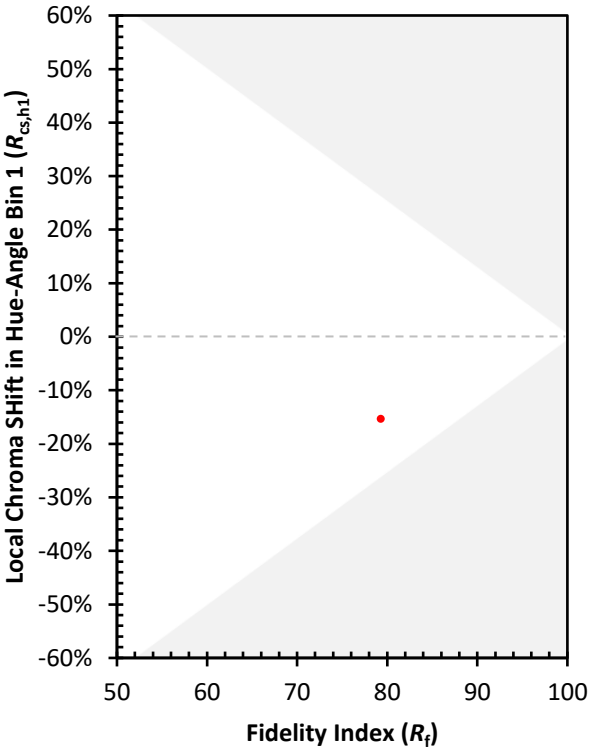


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Measure Comparisons





(END OF REPORT)