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: P1046557

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

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046557
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-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5269.7 lumens
Efficiency:	N/A
Efficacy:	133.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - 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

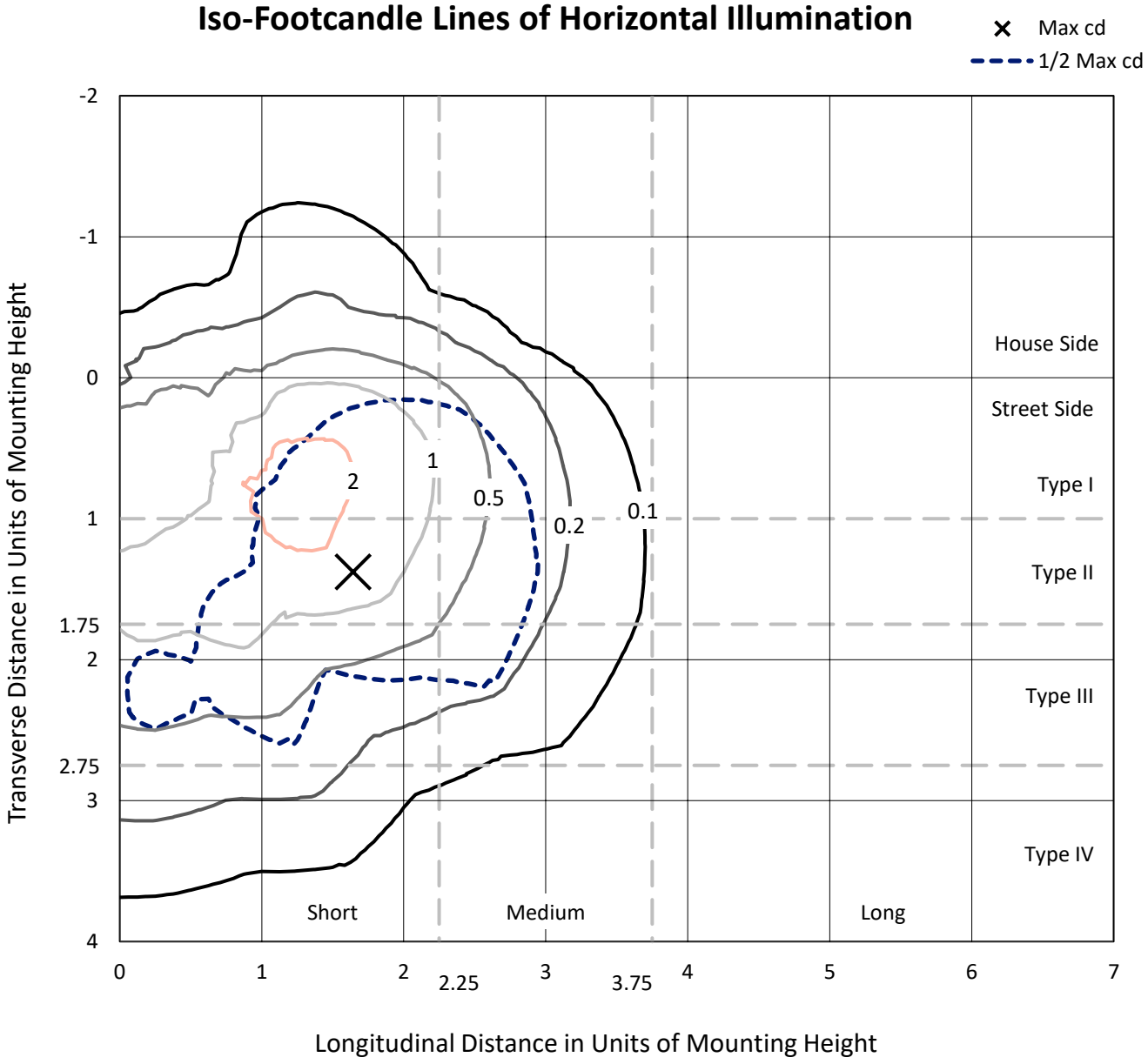


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Iso-Footcandle Lines of Horizontal Illumination



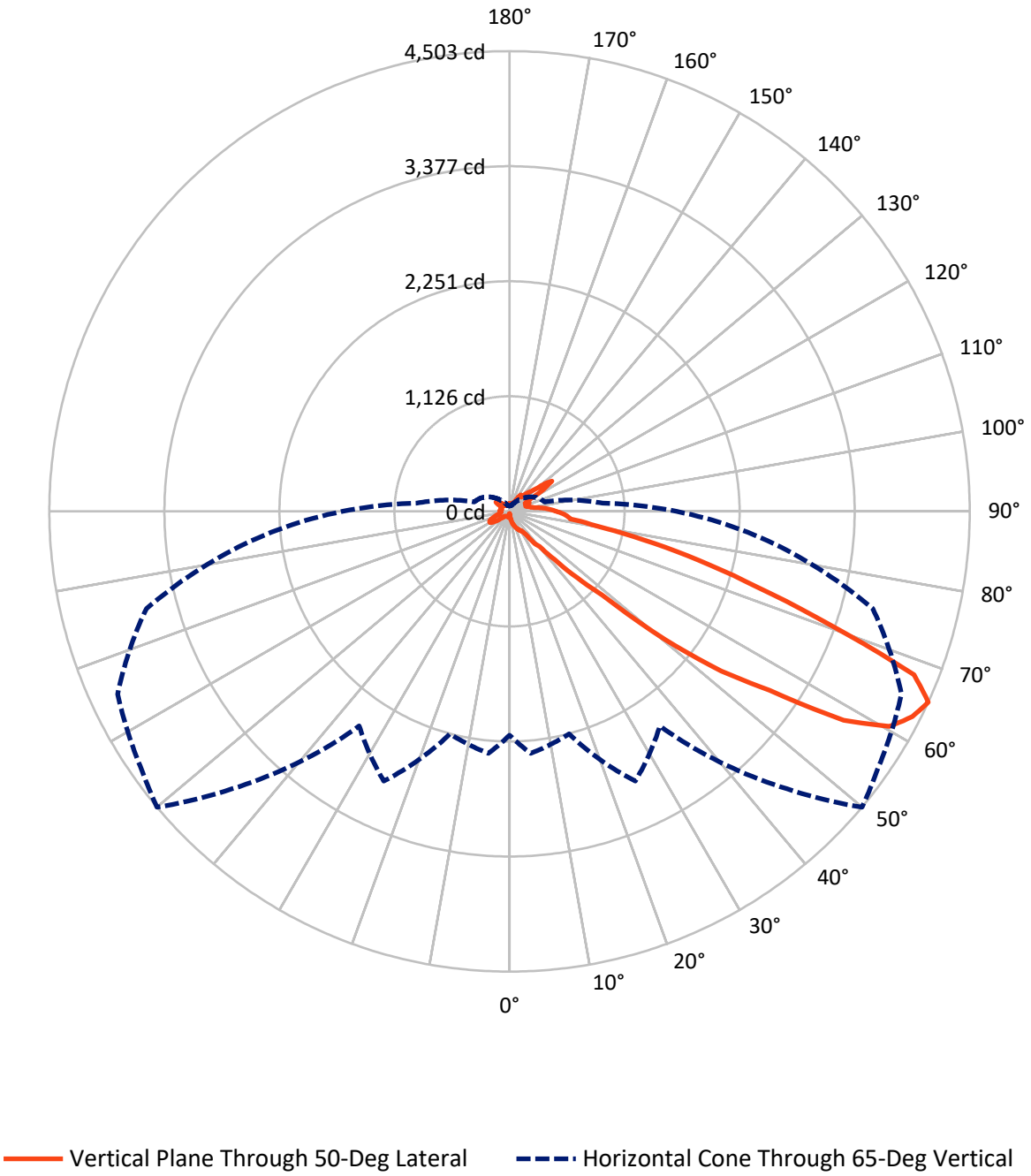
Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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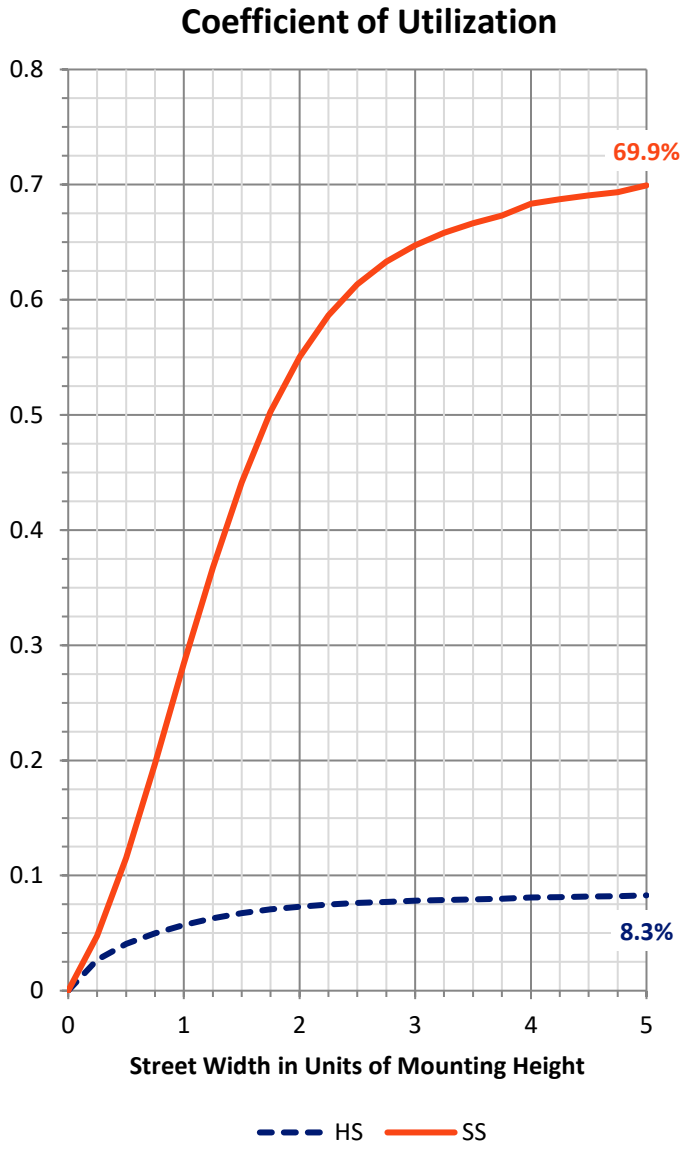
REPORT NUMBER: P1046557
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	462.2	304.3	766.5
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	3812.0	691.2	4503.2
	% Fixture	72.3	13.1	85.5
Total	Lumens	4274.2	995.5	5269.7
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.1
10°-20°	27.5	0.5
20°-30°	58.7	1.1
30°-40°	117.2	2.2
40°-50°	307.2	5.8
50°-60°	1017.7	19.3
60°-70°	1605.1	30.5
70°-80°	838.1	15.9
80°-90°	297.6	5.6
90°-100°	192.1	3.6
100°-110°	129.6	2.5
110°-120°	147.8	2.8
120°-130°	245.0	4.6
130°-140°	139.9	2.7
140°-150°	76.6	1.5
150°-160°	37.5	0.7
160°-170°	19.9	0.4
170°-180°	7.1	0.1
0°-90°	4274.2	81.1
0°-180°	5269.7	100.0



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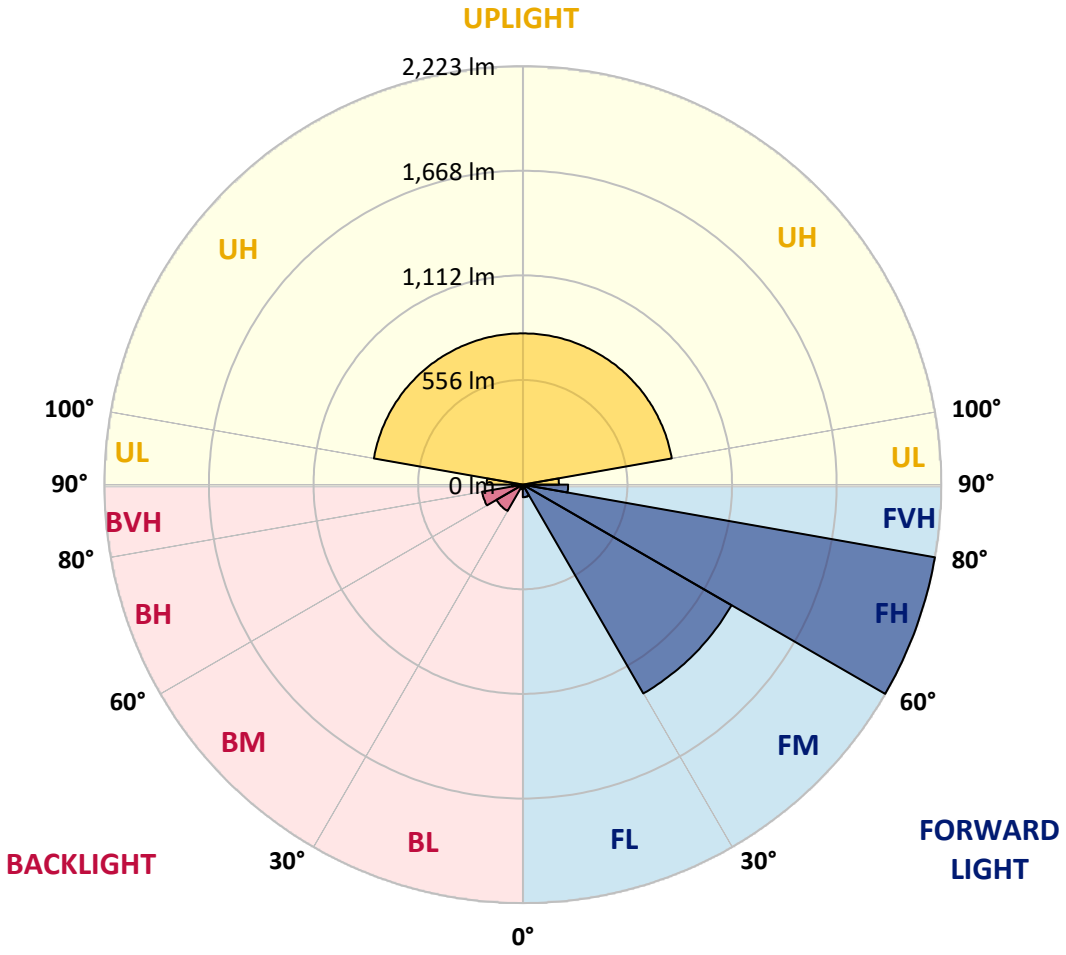
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	67.0	1.3			
FM	(30°-60°)	1280.6	24.3			
FH	(60°-80°)	2223.3	42.2			G2/5000
FVH	(80°-90°)	241.0	4.6			G3/500
BL	(0°-30°)	24.2	0.5	B0/110		
BM	(30°-60°)	161.6	3.1	B0/220		
BH	(60°-80°)	219.8	4.2	B1/500		G1/500
BVH	(80°-90°)	56.6	1.1			G1/100
UL	(90°-100°)	192.1	3.6		U3/500	
UH	(100°-180°)	803.5	15.2		U4/1000	

BUG Rating: B1-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	29.4	29.4	29.4	29.4	29.4	29.4	*29.4*	29.4	29.4	29.4	29.4
2.5°	35.8	35.4	36.1	37.2	36.9	35.8	*35.0*	34.6	33.5	33.1	32.0
5°	52.9	52.5	51.8	52.5	52.9	51.4	*50.7*	48.8	46.9	43.6	41.7
7.5°	74.1	74.5	75.2	73.4	72.6	69.3	*68.5*	66.7	63.7	59.6	58.5
10°	100.6	100.9	102.8	99.8	95.0	90.9	*90.1*	90.9	94.2	83.8	77.5
12.5°	126.6	125.5	131.1	129.6	123.3	117.3	*114.3*	114.7	113.2	105.4	95.0
15°	150.8	150.8	154.9	156.4	149.7	135.9	*131.5*	130.3	129.6	121.4	106.9
17.5°	166.1	166.8	167.2	167.2	165.0	153.4	*148.2*	146.0	139.3	131.8	118.4
20°	178.8	179.1	175.8	176.2	179.5	169.5	*164.2*	159.8	152.7	144.9	128.1
22.5°	196.3	195.5	190.3	188.1	195.5	187.0	*181.4*	176.5	168.0	159.0	143.8
25°	215.6	214.9	209.7	204.1	209.3	201.5	*195.5*	191.1	183.2	177.3	146.0
27.5°	234.3	233.5	224.6	223.8	219.4	215.6	*209.3*	208.2	202.2	184.7	144.9
30°	248.0	247.3	237.6	238.0	226.4	229.4	*220.1*	219.4	212.3	189.2	147.5
32.5°	253.3	254.0	249.9	248.0	232.4	244.3	*235.7*	232.8	230.9	201.1	160.5
35°	272.2	278.2	284.5	286.8	272.6	295.0	*277.5*	275.2	279.7	244.7	200.4
37.5°	418.6	415.6	392.2	359.0	351.6	400.7	*398.1*	400.0	397.0	348.2	265.2
40°	419.0	420.8	405.9	385.8	362.4	412.7	*451.0*	417.1	466.7	379.5	290.9
42.5°	440.2	434.3	469.6	477.5	451.4	526.2	*639.5*	511.7	618.6	462.6	395.9
45°	521.0	521.0	527.4	531.1	521.8	709.8	*928.8*	713.9	826.8	578.8	475.2
47.5°	604.5	597.4	633.5	694.2	730.3	913.6	*1226.0*	943.4	1121.4	778.0	659.6
50°	842.8	852.9	922.1	992.9	1046.9	1360.1	*1973.9*	1616.3	1831.6	1196.2	1007.0
52.5°	1027.9	1086.7	1140.0	1338.5	1362.7	1858.4	*2594.7*	2168.6	2346.7	1680.8	1246.9
55°	1219.0	1335.5	1367.2	1717.6	1745.2	2388.0	*3088.9*	2747.0	2797.3	2215.9	1480.4
57.5°	1569.0	1731.8	1742.6	2116.5	2115.4	3076.6	*3856.5*	3577.2	3539.2	2821.9	1838.3
60°	1870.3	2055.8	1989.5	2507.6	2391.4	3584.2	*4272.5*	3990.9	3907.9	3307.9	2090.1
62.5°	2053.2	2234.2	2152.6	2765.3	2567.5	3827.1	*4423.0*	4258.7	4117.2	3602.1	2295.3
65°	*2189.5*	*2376.1*	*2253.9*	*2911.6*	*2564.2*	*3839.0*	*4502.7*	*4396.5*	*4230.8*	*3678.8*	*2340.3*
67.5°	2171.6	2353.7	2207.4	2853.5	2385.0	3496.0	*4268.4*	4136.2	3931.4	3382.8	2188.8
70°	1883.0	1992.9	1832.0	2430.5	1906.8	2704.2	*3325.0*	3248.7	3051.7	2589.5	1693.1
72.5°	1585.1	1612.2	1461.4	1902.4	1486.7	1970.1	*2526.6*	2445.0	2315.8	1921.7	1279.7
75°	1224.2	1224.2	1137.8	1426.4	1104.6	1398.1	*1912.4*	1891.6	1811.9	1442.0	971.7
77.5°	826.8	783.6	770.6	963.5	763.1	922.5	*1331.4*	1380.6	1359.7	1032.4	708.4
80°	481.9	492.4	474.1	594.8	502.0	603.3	*854.4*	919.2	917.3	685.6	464.8
82.5°	375.8	383.2	364.2	428.3	383.2	474.8	*598.9*	594.8	608.9	496.8	349.7
85°	370.2	375.8	356.0	395.9	368.0	451.0	*562.7*	561.6	558.6	459.9	328.5
87.5°	336.7	344.1	327.0	359.0	333.7	411.9	*511.3*	517.3	508.7	431.3	315.8
90°	281.6	289.4	281.9	319.2	293.1	355.3	*444.7*	449.1	441.7	384.3	284.9
92.5°	253.3	258.5	249.5	281.9	254.4	312.1	*392.9*	395.5	384.0	338.2	246.5
95°	233.5	238.7	227.6	251.4	224.6	275.2	*334.4*	343.0	325.9	285.3	210.0
97.5°	194.0	190.7	186.2	206.7	185.8	216.8	*255.9*	262.2	251.4	221.2	167.2
100°	168.0	169.1	167.2	182.1	163.1	186.2	*216.8*	219.4	214.9	192.9	151.2
102.5°	162.8	163.1	166.5	176.5	154.6	171.3	*197.4*	198.9	197.8	176.9	139.7
105°	161.3	160.9	162.8	173.6	150.8	156.8	*181.7*	182.5	178.8	164.6	130.7
107.5°	152.3	153.4	153.1	162.8	148.2	149.0	*165.0*	164.6	163.9	150.8	123.6
110°	174.7	172.8	165.0	165.4	151.2	154.9	*170.9*	169.1	165.4	157.5	134.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	248.4	243.2	234.3	204.8	189.9	200.4	*211.2*	213.0	208.9	201.9	170.6
115°	275.6	274.9	264.8	245.4	196.3	200.0	*207.1*	210.0	214.9	201.1	174.7
117.5°	226.1	238.4	222.7	225.3	197.4	173.6	*172.4*	166.5	169.1	167.6	161.6
120°	285.3	287.5	255.9	249.9	230.5	238.4	*238.7*	239.5	231.7	194.0	170.9
122.5°	401.1	401.1	410.0	426.4	416.4	402.2	*394.0*	385.8	375.0	339.3	290.1
125°	508.7	508.0	503.2	511.3	501.3	506.9	*509.5*	511.7	500.2	456.6	389.6
127.5°	410.0	420.5	438.0	482.3	454.4	446.5	*439.1*	444.3	435.7	427.5	385.8
130°	317.7	318.8	347.5	375.8	373.5	348.6	*340.0*	325.1	328.5	327.4	302.4
132.5°	271.5	273.0	289.7	305.8	319.2	300.9	*284.2*	276.3	278.9	277.1	261.1
135°	237.2	237.2	231.3	229.4	240.6	257.3	*255.5*	245.4	240.6	235.0	211.2
137.5°	205.2	204.5	193.7	187.7	196.6	218.2	*219.7*	219.7	214.9	201.5	184.4
140°	169.1	168.0	162.4	163.5	165.7	180.3	*181.4*	184.7	184.0	173.2	152.3
142.5°	128.1	128.5	136.7	146.0	151.2	182.5	*177.6*	173.9	185.8	185.1	133.0
145°	170.9	167.2	167.2	163.1	175.4	206.3	*196.6*	199.6	215.3	200.7	143.8
147.5°	156.8	158.7	159.0	158.3	173.9	175.8	*168.7*	169.1	174.7	174.7	147.1
150°	121.4	118.4	119.2	120.7	137.1	135.9	*129.6*	129.2	133.7	132.6	120.3
152.5°	96.1	95.7	95.3	96.8	110.2	104.7	*102.0*	100.9	100.2	99.1	96.1
155°	90.5	90.1	89.4	91.2	99.1	96.5	*95.0*	95.0	93.1	91.2	89.4
157.5°	80.4	80.1	80.4	84.2	88.6	85.7	*85.3*	84.9	84.2	81.9	81.2
160°	75.2	74.9	75.6	78.6	80.4	77.8	*77.1*	77.5	77.1	76.0	77.5
162.5°	71.1	71.1	71.1	73.0	73.7	71.9	*71.5*	71.9	72.3	72.3	74.1
165°	68.9	68.9	69.3	70.4	70.4	69.6	*68.9*	68.9	70.8	71.5	73.0
167.5°	70.4	70.4	70.8	71.1	71.1	70.4	*70.4*	70.8	71.9	72.6	72.6
170°	72.6	72.6	72.6	73.0	72.6	71.5	*71.5*	71.5	71.9	71.9	72.3
172.5°	75.2	75.2	75.2	74.9	74.1	73.7	*73.0*	73.0	73.4	73.0	73.4
175°	79.0	78.6	78.6	78.2	77.8	77.5	*77.1*	76.7	76.7	75.6	75.6
177.5°	80.8	80.4	80.8	80.8	80.4	79.7	*79.0*	79.0	78.6	77.8	77.5
180°	77.8	77.8	77.8	77.8	77.8	77.8	*77.8*	77.8	77.8	77.8	77.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
2.5°	31.3	30.2	27.2	24.6	22.7	22.0	22.0	20.9	19.4	18.2	17.9
5°	41.3	40.6	39.5	38.0	34.6	30.2	26.4	25.0	24.2	23.8	23.5
7.5°	58.5	59.2	60.7	60.3	54.0	42.1	35.0	34.6	38.7	43.2	44.7
10°	75.6	74.9	79.7	83.8	68.2	47.7	36.1	35.0	40.6	48.4	49.5
12.5°	90.5	86.8	84.2	79.7	65.2	47.7	38.7	36.5	39.1	45.1	45.1
15°	101.7	96.8	86.0	75.6	62.6	49.2	40.2	38.7	38.7	36.9	37.2
17.5°	110.2	101.3	85.7	72.3	58.1	46.9	39.8	35.8	33.5	30.5	29.8
20°	120.3	114.0	93.1	74.5	57.4	45.4	38.7	33.9	31.3	30.2	29.8
22.5°	131.1	118.1	97.9	75.2	57.4	46.2	38.4	33.1	30.9	30.2	30.2
25°	132.2	121.0	100.6	78.2	59.2	47.7	39.1	33.5	31.3	30.5	30.2
27.5°	130.7	122.9	105.0	81.6	61.1	49.2	40.6	34.3	31.3	30.2	29.8
30°	136.3	130.0	110.2	83.8	62.9	51.0	42.1	35.8	32.0	29.8	29.4
32.5°	150.5	141.5	117.3	85.3	63.7	51.4	43.6	37.2	32.8	30.2	29.8
35°	187.7	179.5	144.5	90.5	63.7	52.1	44.7	38.4	33.5	30.5	30.2
37.5°	241.7	226.4	177.6	108.0	64.4	53.6	45.8	39.8	34.6	31.3	30.5
40°	256.2	216.4	150.8	96.8	65.9	55.1	47.7	41.3	36.1	32.4	32.0
42.5°	332.6	276.7	186.2	102.4	70.4	56.2	48.8	42.8	37.2	33.5	32.8
45°	356.0	277.1	189.2	118.4	82.7	61.1	50.7	43.9	38.0	34.3	33.9
47.5°	466.7	343.8	192.9	127.0	92.7	70.4	55.1	45.4	38.7	35.0	34.6
50°	684.2	484.9	239.5	158.7	114.7	86.0	64.8	48.4	39.5	36.1	35.4
52.5°	853.6	581.7	259.6	194.0	152.3	113.6	81.6	56.2	41.7	36.9	36.1
55°	1040.6	714.7	295.0	233.9	184.7	142.3	103.5	67.8	46.2	38.0	37.2
57.5°	1297.9	853.2	346.4	276.0	224.2	166.1	118.1	79.3	52.1	40.6	39.1
60°	1454.3	912.1	354.6	298.7	247.7	185.1	124.4	84.2	58.5	44.3	42.1
62.5°	1604.0	952.7	356.8	307.6	253.3	188.8	125.1	81.9	60.7	49.5	46.6
65°	*1634.6*	*912.4*	*357.5*	*309.5*	*246.5*	*179.1*	*121.0*	*79.7*	*58.1*	*54.0*	*54.4*
67.5°	1531.4	810.4	331.5	296.1	228.7	159.8	108.7	76.3	57.4	53.3	54.4
70°	1204.1	635.0	302.8	274.5	194.0	135.9	96.8	71.9	57.4	51.4	50.3
72.5°	934.8	542.6	310.2	260.7	166.1	121.4	87.5	67.0	55.5	51.0	50.3
75°	725.5	452.9	305.8	229.4	135.6	104.3	78.6	61.5	52.9	50.3	49.9
77.5°	530.3	357.2	252.9	175.8	112.5	88.6	69.3	57.7	51.4	49.2	48.8
80°	341.1	249.9	176.2	140.4	98.7	80.8	64.8	55.1	50.7	49.2	48.8
82.5°	287.5	226.8	158.7	133.0	95.3	82.3	67.8	57.7	53.3	51.8	51.4
85°	276.7	233.5	163.1	138.5	91.2	78.6	66.3	57.7	53.6	51.8	51.4
87.5°	262.9	211.2	160.9	127.4	87.9	75.6	65.2	59.2	55.1	54.0	53.6
90°	238.0	186.2	147.5	118.4	92.7	80.4	71.9	65.5	61.5	58.8	58.1
92.5°	200.7	149.7	126.6	116.9	101.7	91.2	82.7	77.1	72.6	70.0	68.9
95°	169.1	130.7	110.2	103.5	89.8	81.9	73.7	69.6	66.3	64.1	64.1
97.5°	137.8	112.1	102.4	97.2	86.0	77.5	70.8	66.7	65.5	64.8	64.4
100°	129.6	109.9	103.2	98.7	89.8	81.9	76.7	73.0	72.6	72.3	72.3
102.5°	120.3	103.9	96.5	92.0	83.1	76.3	72.6	69.6	68.5	67.4	66.3
105°	113.6	98.3	92.7	86.8	79.7	73.0	69.3	64.8	64.1	63.7	63.7
107.5°	110.2	97.6	94.6	85.3	78.6	75.6	71.1	65.5	64.4	62.9	62.9
110°	121.8	108.4	99.8	88.3	81.2	78.6	77.5	72.6	68.9	64.4	64.1

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

Scaled Data Report

REPORT NUMBER: P1046557
CATALOG NUMBER: FFX-CLB-40-727-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	150.8	132.6	122.5	105.4	90.9	84.5	79.7	74.5	72.3	69.3	68.2
115°	162.4	143.8	131.1	114.0	97.2	86.0	79.0	78.2	76.0	74.1	76.0
117.5°	166.5	130.7	108.0	103.9	91.2	82.3	79.0	77.8	78.6	78.6	75.2
120°	179.5	141.2	132.6	127.4	103.5	89.0	81.6	85.3	84.5	80.1	80.1
122.5°	267.8	239.1	210.8	175.8	146.0	128.9	103.5	86.8	83.4	80.4	78.6
125°	352.7	327.0	282.7	236.1	184.7	136.7	102.8	90.9	84.5	80.8	81.6
127.5°	359.4	332.2	281.6	224.6	165.0	127.7	103.5	93.1	86.0	81.9	81.2
130°	280.8	261.4	223.5	181.7	140.0	114.3	95.7	85.3	79.0	75.2	74.5
132.5°	248.4	232.0	192.5	156.0	127.7	106.1	90.1	78.6	74.1	71.5	71.1
135°	198.5	184.7	158.3	138.5	118.8	100.9	84.9	74.1	70.0	69.6	68.9
137.5°	173.9	162.8	142.3	125.9	109.5	92.4	79.0	70.0	68.2	68.5	67.4
140°	141.9	137.1	125.5	111.4	93.9	76.0	66.7	63.7	66.7	68.2	68.2
142.5°	121.8	115.5	102.4	86.0	74.9	66.7	65.5	64.4	65.9	66.7	66.7
145°	112.1	104.7	93.9	87.9	82.7	75.6	69.6	64.4	62.9	63.3	63.3
147.5°	126.6	118.1	111.0	99.8	87.1	75.2	66.3	60.3	60.3	61.8	62.2
150°	105.0	97.6	92.7	86.4	76.7	67.0	60.7	57.7	58.8	61.8	62.2
152.5°	87.9	79.0	76.0	72.3	67.0	61.8	58.8	57.4	59.2	61.5	61.5
155°	85.7	77.8	74.1	70.4	65.5	61.1	58.5	57.7	59.6	61.1	61.5
157.5°	80.4	76.0	71.1	68.2	64.4	61.1	59.2	58.5	60.0	61.1	61.5
160°	77.5	74.9	69.3	66.7	63.3	61.1	60.7	60.7	61.5	61.8	61.8
162.5°	74.1	72.6	69.3	67.0	64.8	63.7	64.4	64.8	64.8	64.4	64.4
165°	73.0	72.3	69.3	67.4	66.3	66.7	68.2	68.5	67.4	66.7	66.7
167.5°	72.6	72.6	70.4	68.9	68.5	69.3	70.8	70.8	69.6	68.2	67.8
170°	72.6	73.0	72.3	72.3	71.5	71.9	72.3	72.3	71.5	70.8	70.4
172.5°	73.7	73.7	73.7	73.7	73.4	73.7	74.1	74.1	74.1	73.7	73.7
175°	75.6	75.6	75.6	75.2	74.9	74.9	75.2	75.6	76.0	76.0	76.0
177.5°	77.5	77.1	76.7	77.1	76.7	76.7	77.5	77.8	78.2	78.2	78.2
180°	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8

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

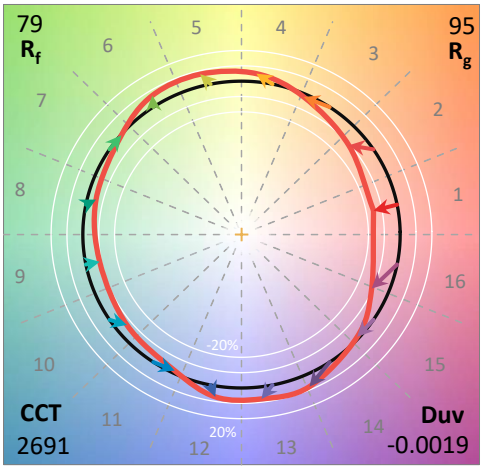
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

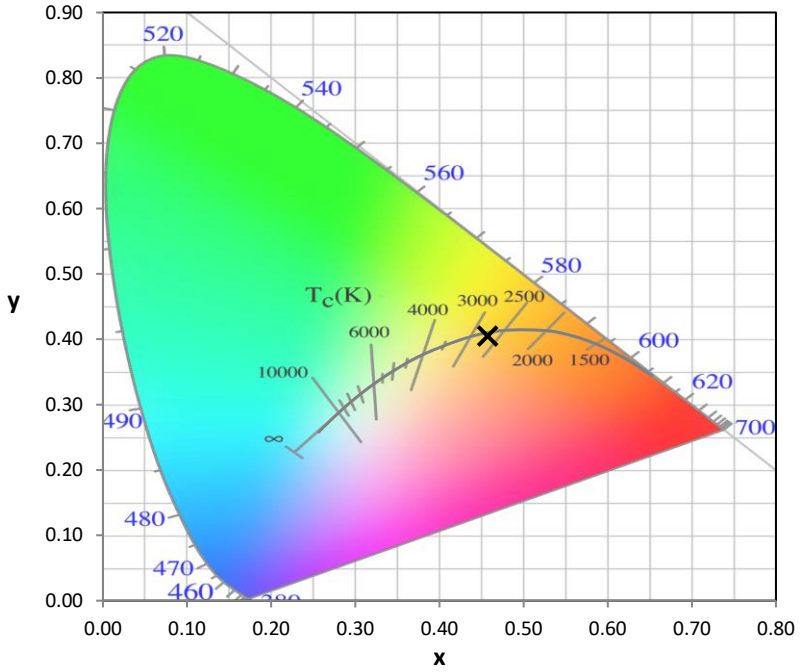
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

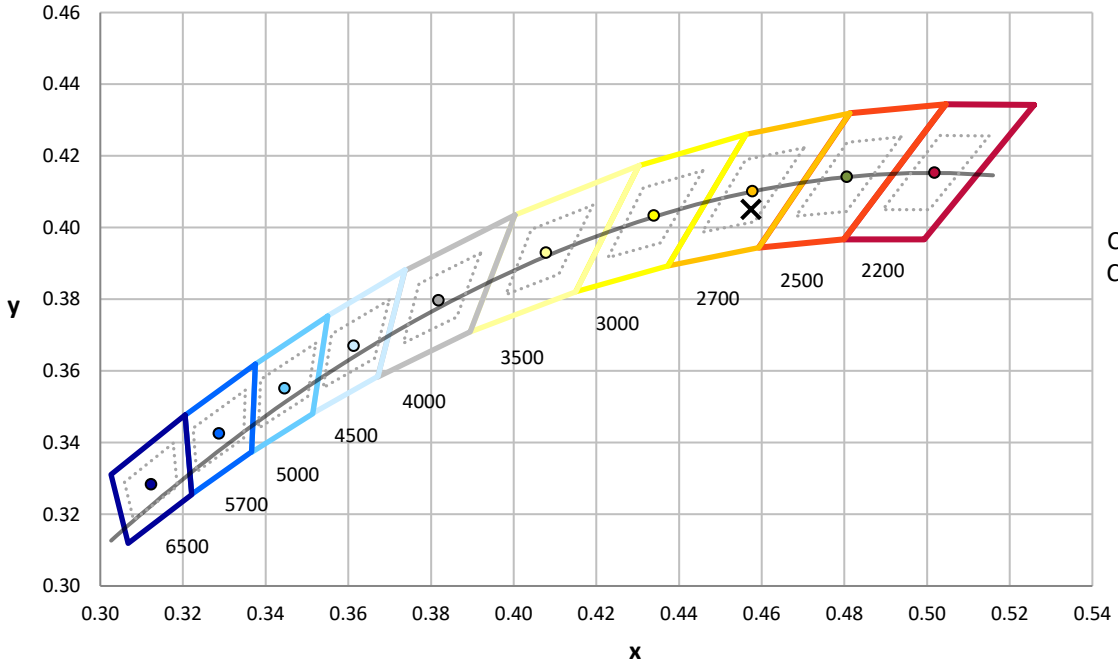
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

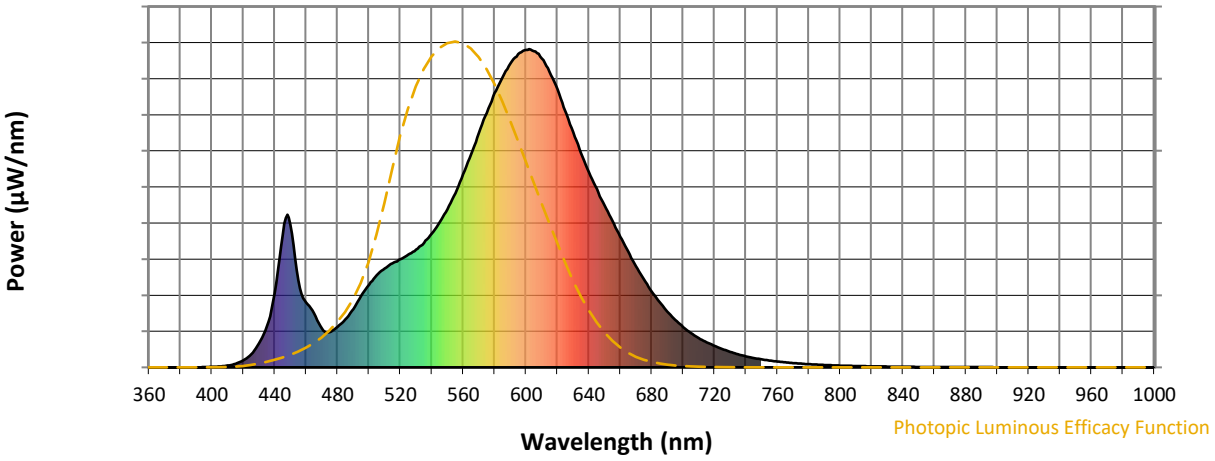


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

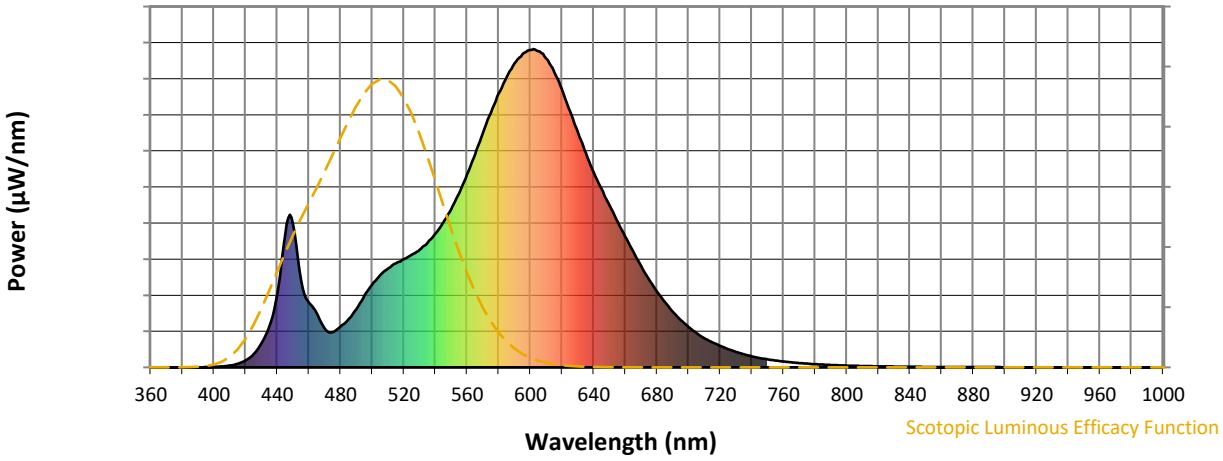


Photopic Lumens: NR

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

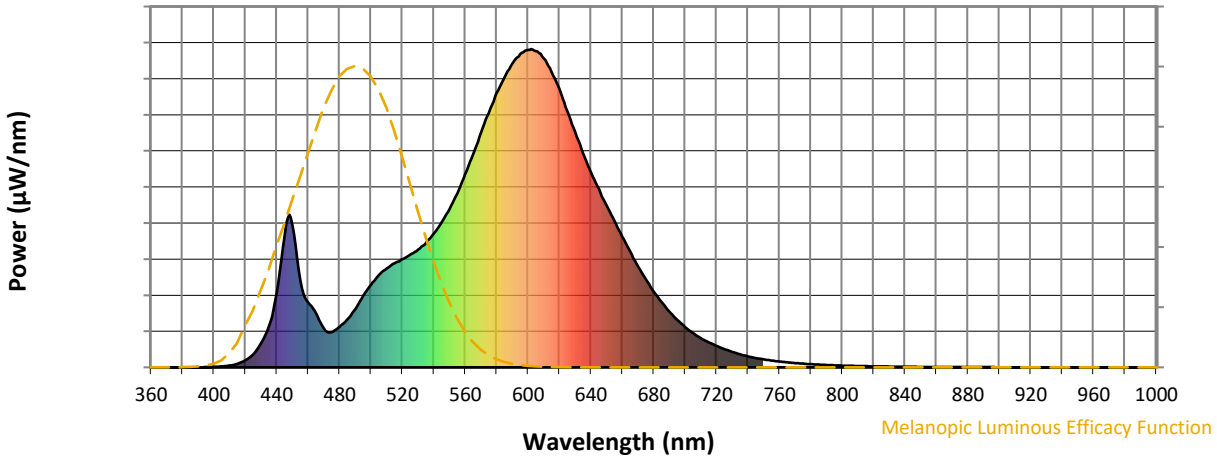


Scotopic Lumens: NR **S/P: 1.18**

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			

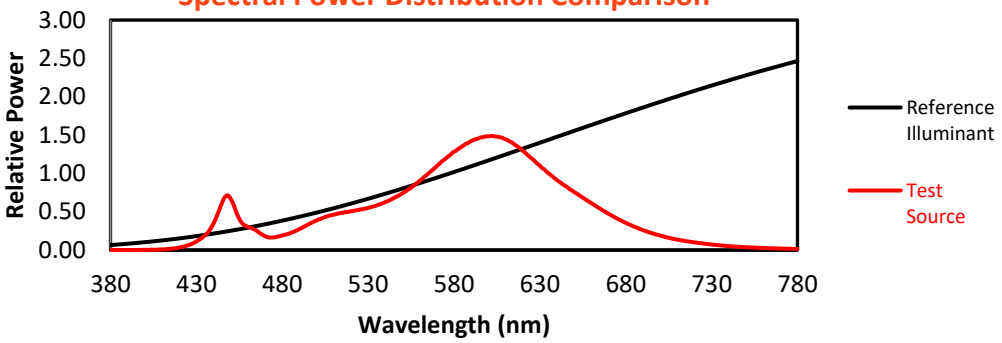
REPORT NUMBER: SP1-2501-332-8

TM-30-18

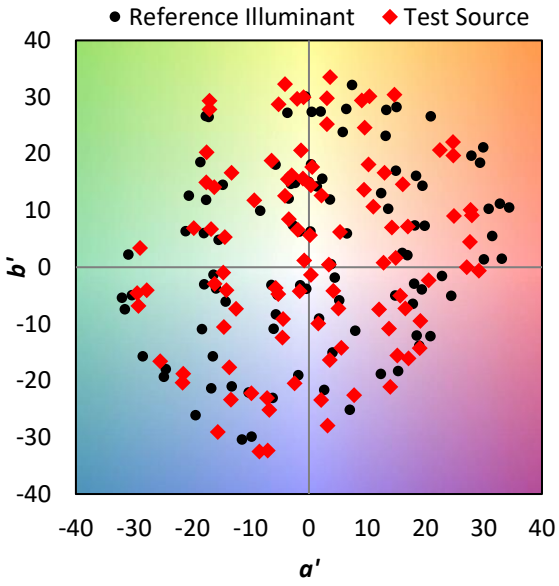
Summary

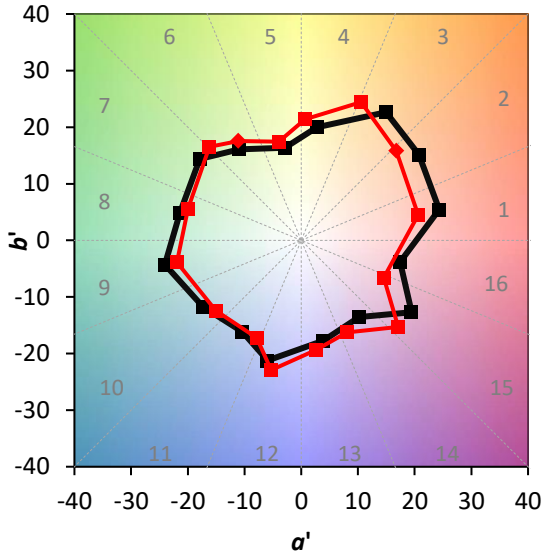
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

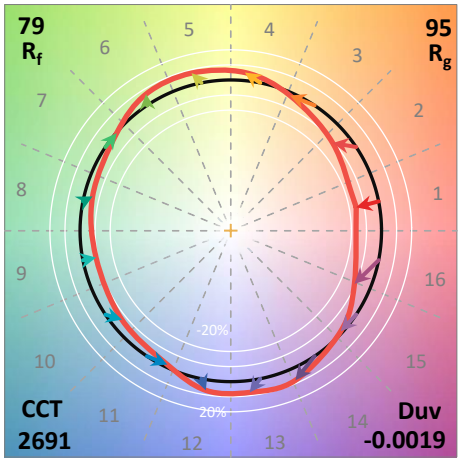
Spectral Power Distribution Comparison

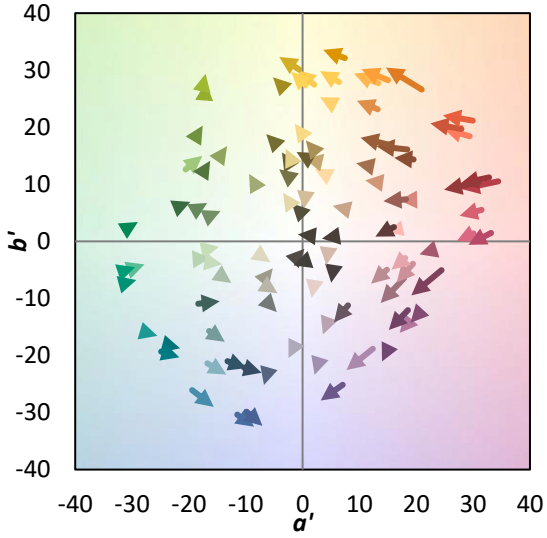


Color Vector Graphics







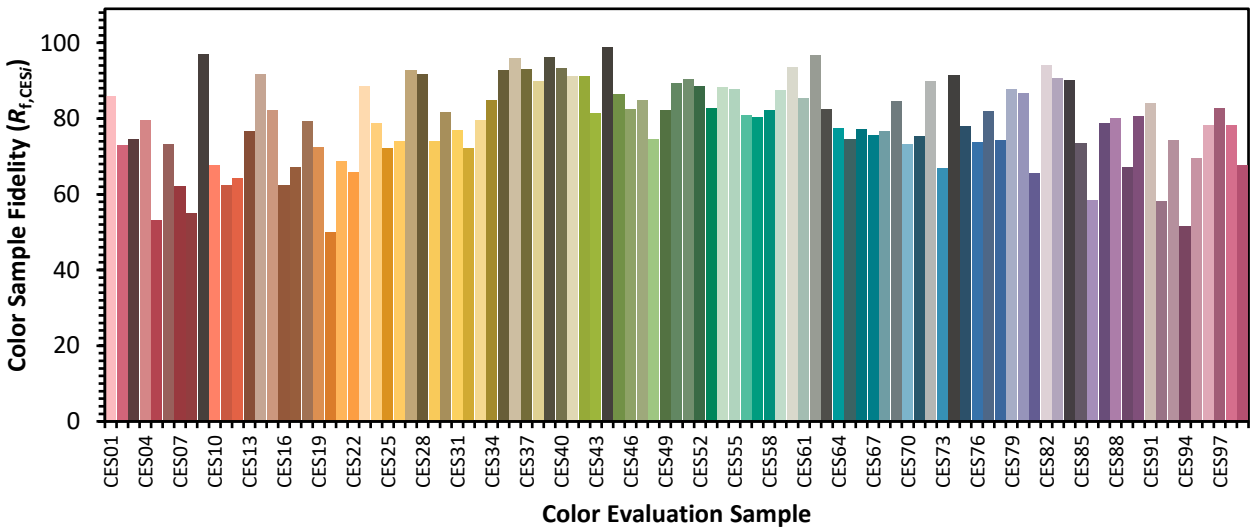


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

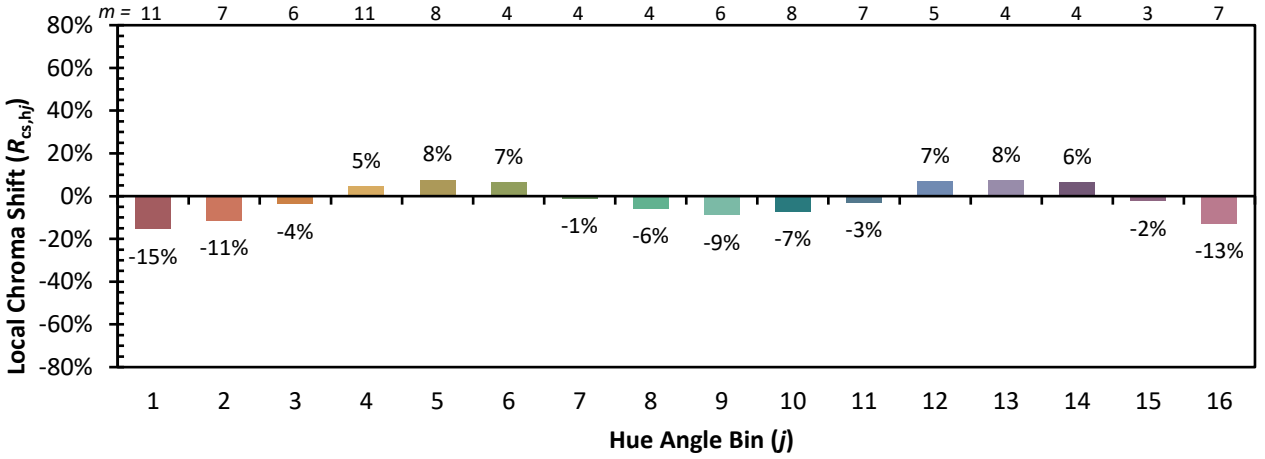
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

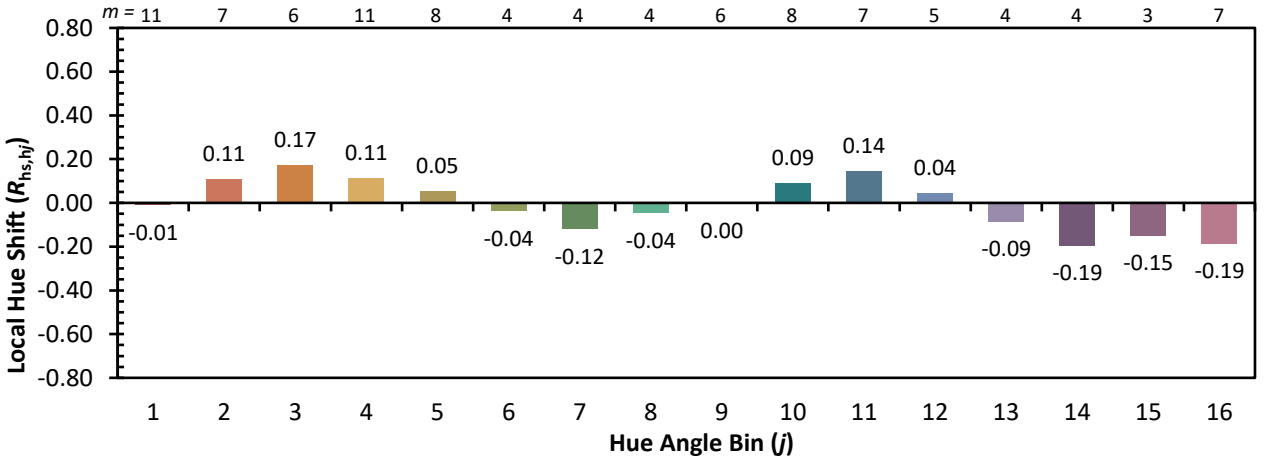


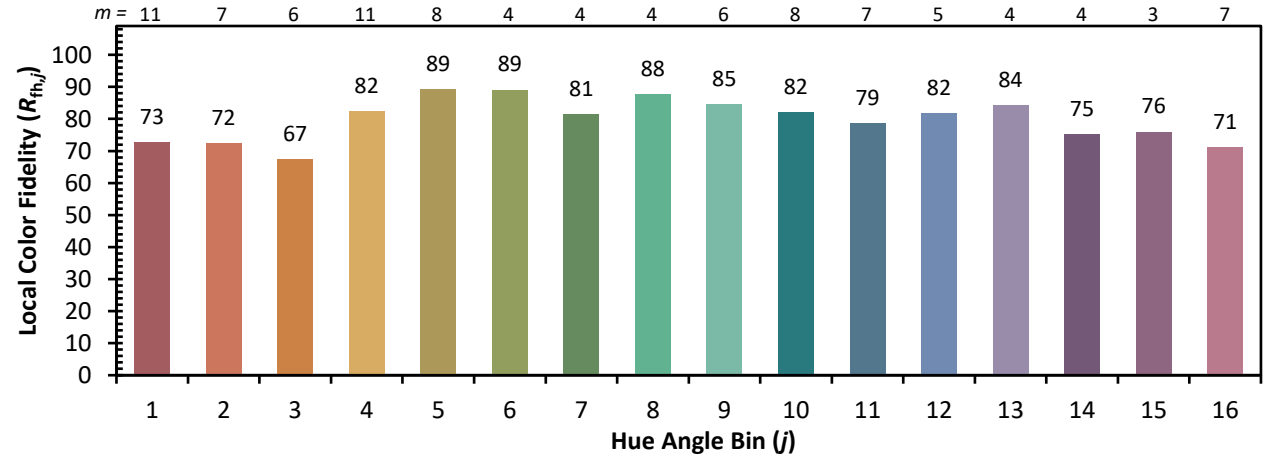
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Color Rendition by Hue-Angle Bin



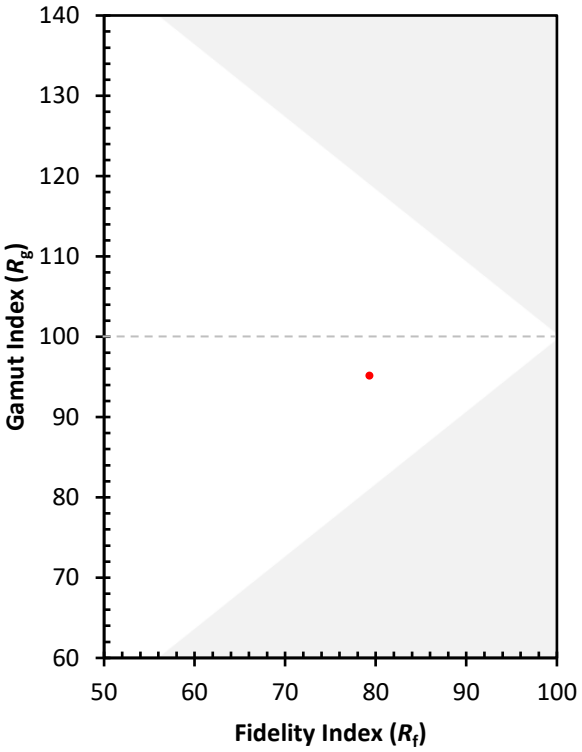


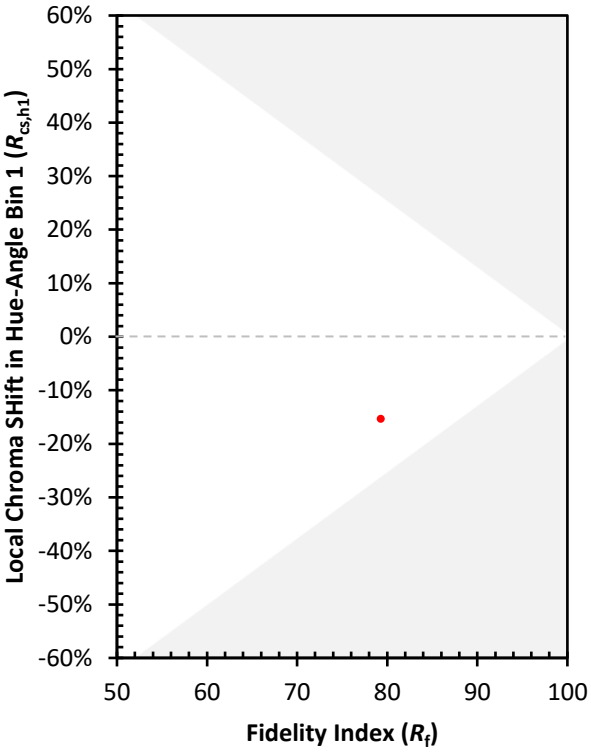


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Measure Comparisons





(END OF REPORT)