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: P1046188

Luminaire Tested: **FFX-CLB-40-722-U-FR-T4-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:	P1046188
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-722-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4845.8 lumens
Efficiency:	N/A
Efficacy:	123.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G2

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

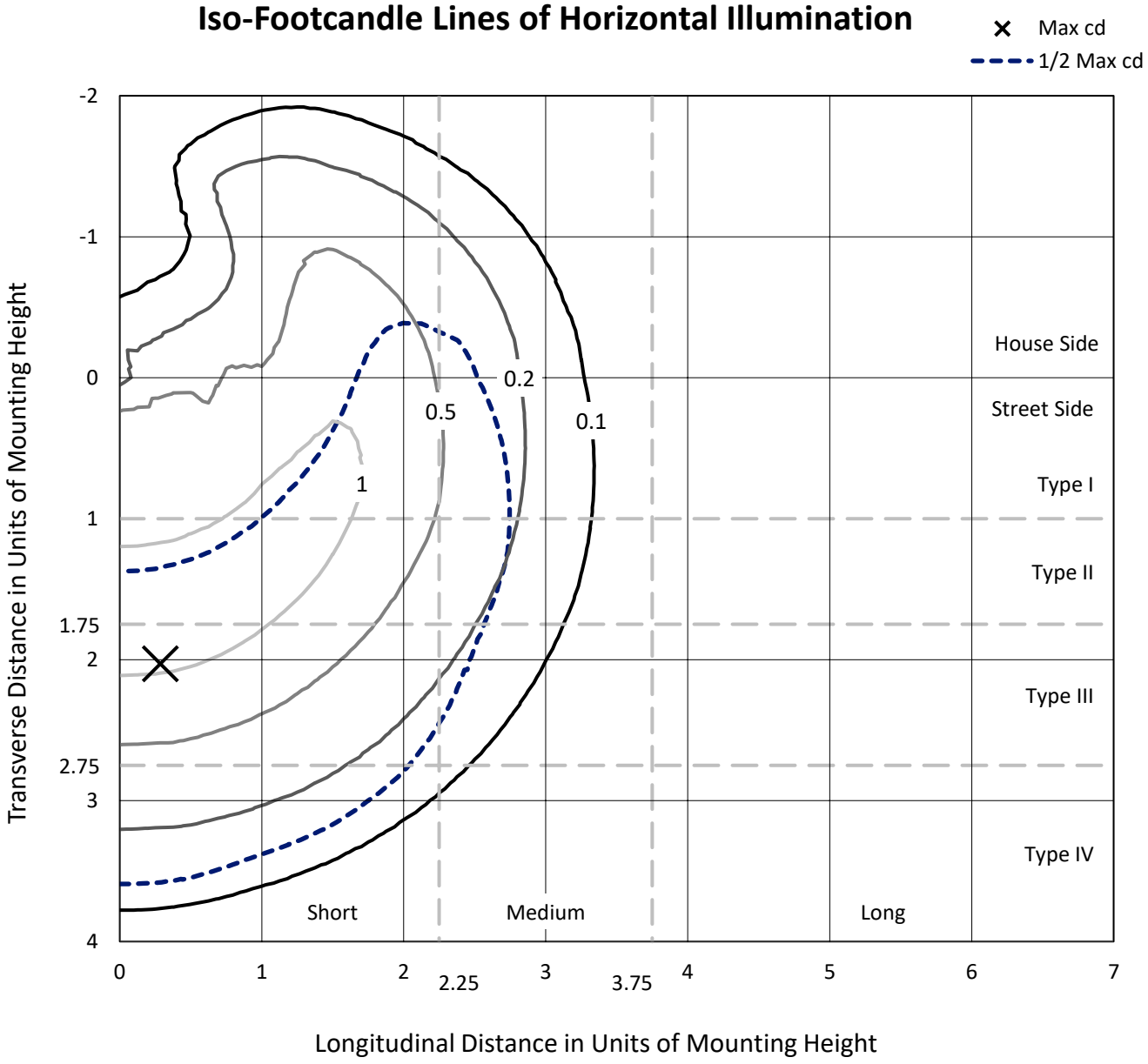


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Iso-Footcandle Lines of Horizontal Illumination



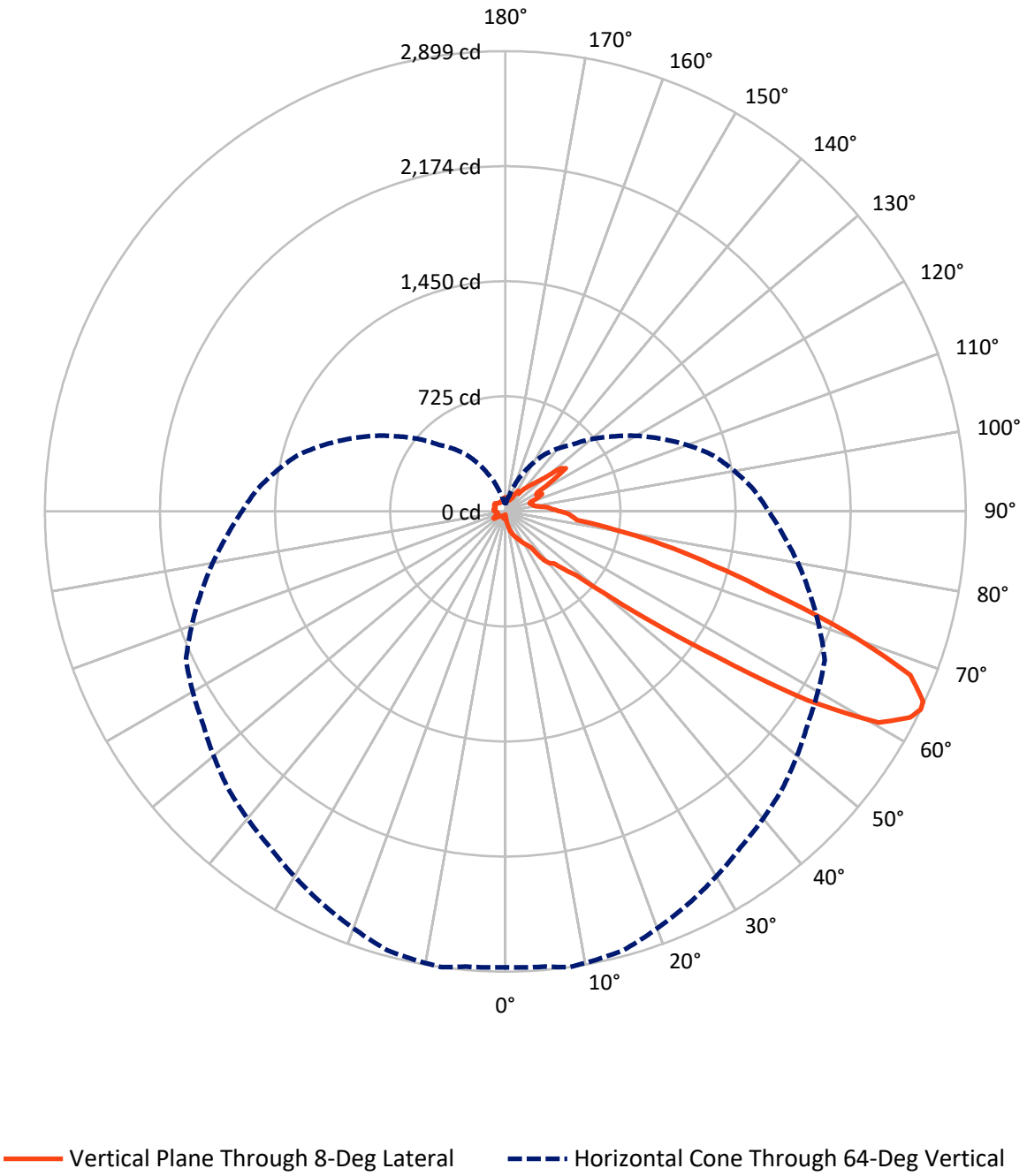
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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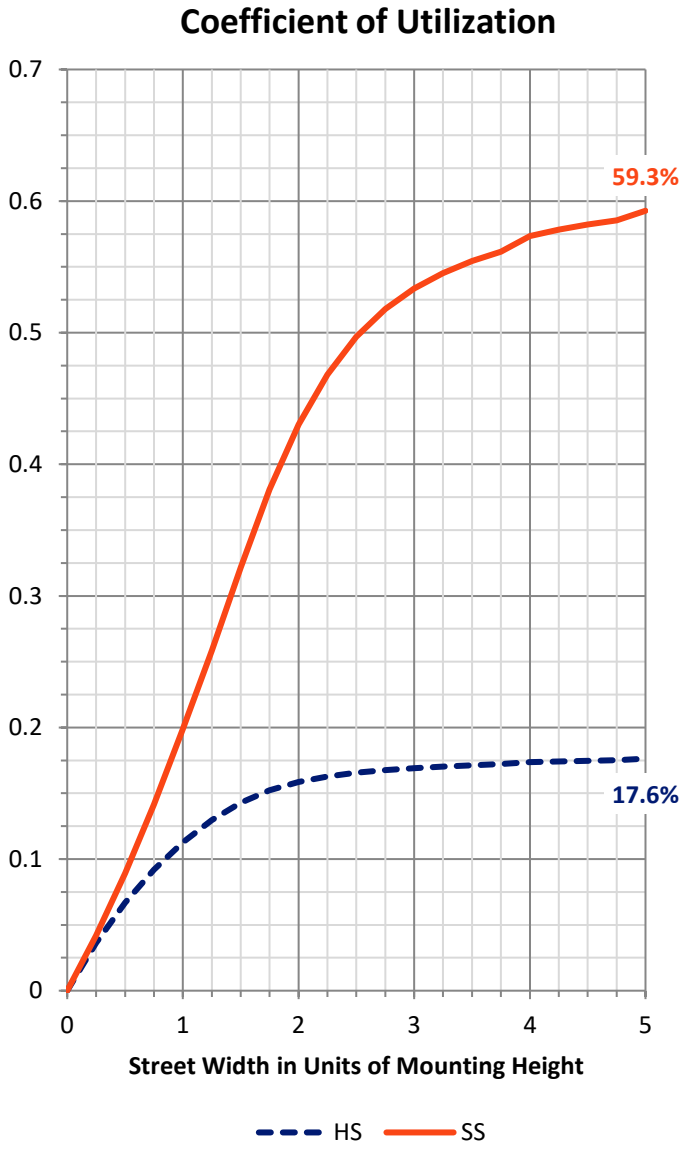
REPORT NUMBER: P1046188
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	886.2	331.0	1217.3
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	2994.7	633.9	3628.6
	% Fixture	61.8	13.1	74.9
Total	Lumens	3880.9	965.0	4845.8
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	26.7	0.6
20°-30°	57.9	1.2
30°-40°	115.8	2.4
40°-50°	250.6	5.2
50°-60°	868.6	17.9
60°-70°	1461.1	30.2
70°-80°	794.5	16.4
80°-90°	300.8	6.2
90°-100°	189.8	3.9
100°-110°	128.0	2.6
110°-120°	138.5	2.9
120°-130°	227.9	4.7
130°-140°	140.4	2.9
140°-150°	73.4	1.5
150°-160°	38.2	0.8
160°-170°	20.8	0.4
170°-180°	7.8	0.2
0°-90°	3880.9	80.1
0°-180°	4845.8	100.0



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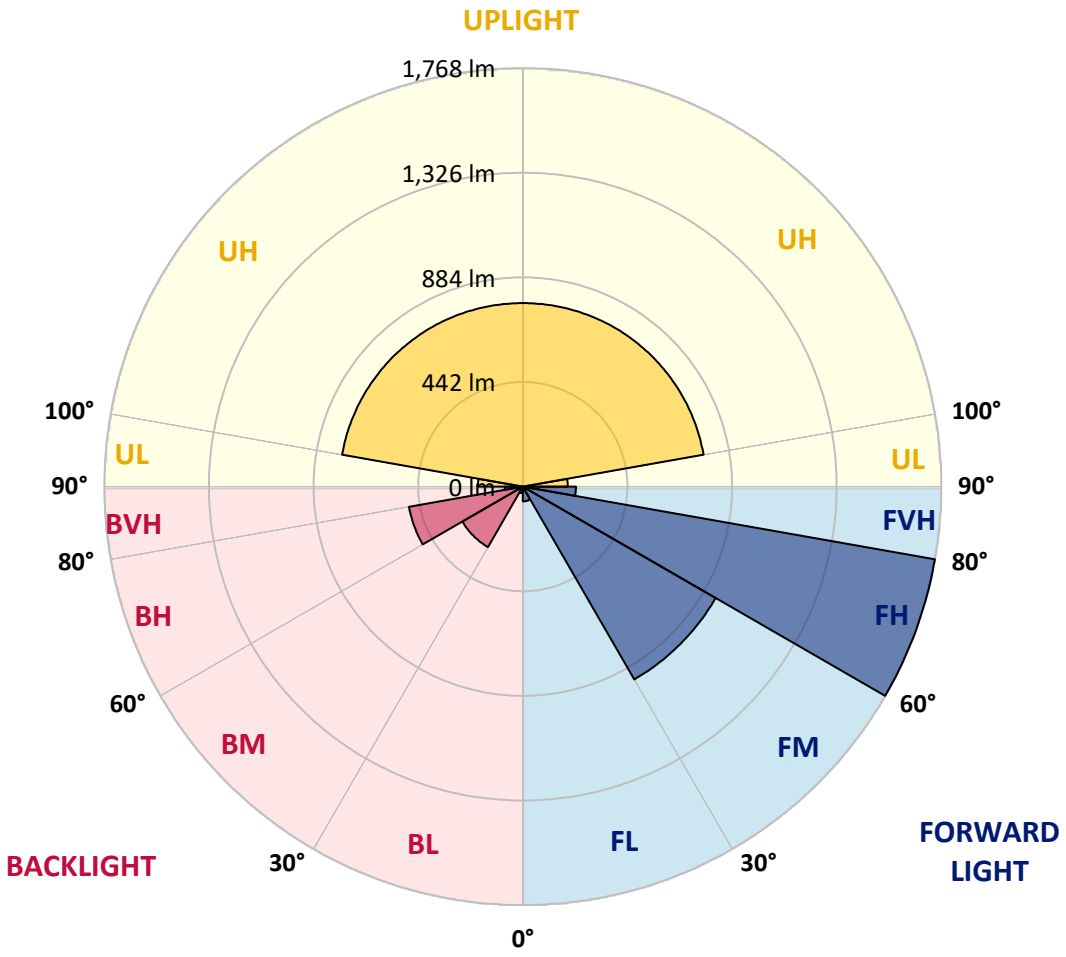
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	62.3	1.3			
FM	(30°-60°)	940.4	19.4			
FH	(60°-80°)	1767.6	36.5			G1/1800
FVH	(80°-90°)	224.4	4.6			G2/225
BL	(0°-30°)	27.2	0.6	B0/110		
BM	(30°-60°)	294.6	6.1	B1/1000		
BH	(60°-80°)	488.0	10.1	B1/500		G1/500
BVH	(80°-90°)	76.4	1.6			G1/100
UL	(90°-100°)	189.8	3.9		U3/500	
UH	(100°-180°)	775.2	16.0		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31.2	31.2	*31.2*	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
2.5°	33.8	33.8	*33.8*	34.8	35.5	35.8	34.8	34.2	33.8	33.5	32.5
5°	48.6	48.9	*48.9*	49.9	49.2	49.9	48.6	47.6	45.9	43.9	42.2
7.5°	68.7	68.7	*68.3*	68.7	68.3	67.0	67.0	68.0	65.3	61.3	57.6
10°	93.1	93.8	*93.5*	92.1	90.1	88.4	88.4	89.8	85.8	78.7	73.4
12.5°	117.9	119.3	*117.9*	118.3	114.9	113.6	110.9	110.2	104.9	98.2	88.8
15°	136.3	137.3	*137.7*	138.7	138.4	134.0	129.3	124.3	119.9	113.9	104.2
17.5°	151.1	151.4	*152.1*	151.8	149.7	145.4	140.0	134.7	127.6	121.3	112.2
20°	165.5	166.8	*166.5*	166.2	165.2	161.8	155.4	147.7	141.7	132.3	122.9
22.5°	180.2	179.2	*179.9*	179.6	179.6	176.2	169.5	160.5	152.4	143.0	134.7
25°	197.3	197.0	*197.3*	196.3	195.0	193.3	184.9	174.5	165.5	155.8	144.0
27.5°	215.4	215.7	*216.1*	214.4	212.7	210.0	198.0	187.6	177.9	165.8	149.4
30°	235.5	234.5	*234.8*	232.5	231.5	223.1	211.4	199.0	188.3	172.2	156.1
32.5°	253.9	252.2	*251.9*	249.9	248.2	236.2	224.1	212.1	199.3	182.9	168.8
35°	279.7	283.1	*281.7*	281.7	286.1	267.7	253.6	241.9	228.1	211.0	196.3
37.5°	384.9	384.2	*380.2*	374.9	359.8	346.7	340.4	321.9	299.8	281.1	257.6
40°	435.8	433.8	*429.5*	418.7	408.0	392.6	382.9	371.5	360.1	327.0	289.4
42.5°	447.9	446.2	*447.2*	459.9	474.0	462.6	424.8	383.6	363.5	341.0	322.3
45°	513.9	519.6	*521.2*	520.9	510.9	498.8	482.4	457.6	422.8	390.9	351.7
47.5°	597.6	597.0	*601.0*	595.6	604.0	582.9	561.8	536.0	499.8	456.6	409.7
50°	816.7	809.7	*810.7*	812.7	800.0	784.6	765.5	751.1	680.4	619.1	547.7
52.5°	1164.8	1165.8	*1158.4*	1158.1	1120.2	1090.4	1056.9	1058.2	954.4	872.0	768.8
55°	1637.1	1637.8	*1611.3*	1633.1	1590.5	1586.5	1512.5	1417.0	1277.3	1165.1	1061.3
57.5°	2225.4	2245.5	*2243.1*	2204.3	2139.3	2104.1	1984.5	1884.3	1686.7	1510.5	1369.4
60°	2726.5	2717.1	*2701.7*	2672.2	2477.6	2395.9	2307.8	2222.3	2058.5	1814.7	1603.6
62.5°	2869.5	2862.5	*2859.8*	2845.1	2691.3	2556.7	2445.8	2306.1	2196.5	1957.4	1742.3
64°	*2871.9*	*2878.3*	*2899.0*	*2863.9*	*2727.2*	*2583.5*	*2468.6*	*2325.9*	*2219.3*	*1983.5*	*1759.0*
65°	2866.5	2865.2	*2891.3*	2846.8	2725.5	2582.1	2454.5	2317.8	2212.3	1976.5	1754.7
67.5°	2722.8	2717.1	*2750.6*	2693.3	2587.5	2458.2	2332.9	2186.2	2093.4	1866.9	1652.2
70°	2234.4	2234.1	*2286.3*	2238.4	2206.9	2069.9	1942.0	1807.3	1708.1	1522.2	1342.7
72.5°	1712.1	1709.1	*1744.0*	1708.1	1692.0	1627.4	1507.8	1388.9	1294.4	1155.1	1009.7
75°	1364.4	1365.8	*1347.3*	1312.2	1299.1	1270.3	1217.0	1146.0	1067.0	940.3	806.3
77.5°	1021.7	1015.0	*1023.1*	973.8	970.1	961.4	961.1	915.5	848.5	767.8	661.6
80°	681.0	685.1	*699.5*	686.4	690.1	687.1	705.8	657.6	606.7	559.1	502.5
82.5°	440.5	451.2	*455.3*	473.3	489.1	496.1	470.3	421.8	389.9	372.5	347.4
85°	422.8	427.1	*424.8*	414.1	408.7	400.0	399.6	384.2	367.8	334.3	293.5
87.5°	389.9	395.0	*392.9*	383.6	371.5	370.5	368.2	357.4	349.7	323.3	287.1
90°	332.6	333.0	*334.7*	333.0	330.6	329.0	315.6	309.2	304.5	281.7	257.3
92.5°	288.4	292.4	*291.4*	288.4	280.7	285.4	271.0	258.9	256.3	240.5	221.8
95°	265.0	267.7	*268.3*	263.0	255.6	253.9	242.9	233.5	229.1	218.8	196.0
97.5°	219.8	218.1	*216.7*	215.4	210.4	205.0	198.0	186.3	182.6	171.2	158.5
100°	187.6	188.3	*187.6*	186.6	182.2	179.6	174.5	165.2	161.1	153.8	145.1
102.5°	178.9	179.2	*179.2*	179.6	172.2	166.2	160.8	154.1	150.4	144.0	135.7
105°	170.8	170.8	*171.5*	171.9	164.5	155.8	148.1	144.4	142.7	135.3	126.6
107.5°	160.8	160.5	*161.5*	157.1	149.7	146.1	138.0	133.7	133.0	127.3	118.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	175.5	171.9	*171.2*	160.5	150.4	142.0	138.0	134.0	131.7	123.9	118.3
112.5°	229.8	224.8	*223.4*	213.4	178.2	175.2	171.5	170.2	168.8	158.5	148.7
115°	253.3	253.3	*257.3*	253.3	228.8	201.0	197.0	190.9	193.3	180.6	166.5
117.5°	202.7	216.7	*220.8*	208.7	209.7	192.0	164.5	155.1	150.4	146.7	153.1
120°	227.5	236.8	*232.8*	210.7	200.7	190.3	191.6	188.3	171.5	148.4	150.7
122.5°	339.0	347.7	*350.7*	352.4	357.1	350.1	334.3	312.2	295.5	267.7	251.9
125°	474.7	468.3	*467.6*	470.7	474.3	465.3	458.6	454.3	443.9	407.4	356.1
127.5°	435.8	432.8	*437.8*	437.2	446.2	430.8	427.8	430.1	426.1	405.7	375.9
130°	312.5	317.9	*321.6*	333.7	351.4	337.7	324.9	305.8	304.5	314.6	298.8
132.5°	262.3	264.6	*271.3*	287.1	300.5	294.8	276.0	257.6	256.3	264.6	263.3
135°	231.8	233.5	*234.5*	235.2	232.8	238.2	234.2	227.5	223.1	223.4	219.4
137.5°	207.0	207.7	*207.0*	201.7	195.3	194.3	204.3	204.7	200.7	193.6	188.3
140°	179.6	179.6	*176.9*	173.2	172.2	172.5	178.2	179.2	174.5	168.8	160.8
142.5°	140.4	138.7	*139.0*	145.1	155.8	153.4	146.1	136.7	135.3	142.0	139.4
145°	151.8	151.4	*150.4*	150.7	148.1	143.7	141.0	138.0	132.7	128.3	123.9
147.5°	153.1	151.8	*152.4*	151.1	149.7	147.7	146.7	148.1	146.7	143.7	138.0
150°	120.9	121.6	*122.3*	120.6	121.9	122.6	121.9	120.9	122.6	118.9	116.6
152.5°	94.5	94.1	*93.8*	94.5	94.1	95.5	95.8	95.5	94.8	94.5	90.8
155°	88.8	89.8	*89.1*	87.1	88.4	89.4	90.8	91.8	90.8	89.1	85.8
157.5°	81.7	81.7	*81.7*	81.7	82.1	82.4	84.1	84.8	84.8	83.7	81.4
160°	76.0	76.4	*76.4*	76.4	77.0	77.7	78.7	79.4	80.1	79.4	78.1
162.5°	72.7	72.4	*72.4*	72.7	72.7	73.7	74.7	76.0	76.4	75.7	75.7
165°	70.7	70.7	*70.7*	71.0	71.7	72.4	73.7	74.0	74.4	75.0	75.0
167.5°	73.0	73.0	*73.0*	73.4	74.0	75.0	75.7	76.4	77.7	78.1	78.1
170°	76.7	76.7	*76.7*	77.0	77.4	77.7	78.1	78.7	79.1	79.7	79.4
172.5°	80.4	80.1	*80.4*	80.4	80.4	80.4	80.4	80.7	81.1	81.1	81.1
175°	84.4	84.4	*84.8*	84.4	83.7	83.7	83.7	84.1	84.1	84.1	83.7
177.5°	88.4	88.4	*88.1*	88.4	88.1	87.8	87.4	87.1	86.4	86.4	85.8
180°	86.1	86.1	*86.1*	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
2.5°	31.8	30.5	28.8	26.8	24.8	23.4	22.1	20.4	19.4	19.1	19.1
5°	40.2	39.2	37.5	34.8	33.2	30.1	27.5	25.8	24.1	22.4	21.1
7.5°	56.3	55.9	56.9	59.0	56.3	49.2	41.9	37.9	38.2	40.2	41.2
10°	70.7	68.7	69.0	73.7	69.3	55.9	45.9	42.2	44.2	48.2	48.9
12.5°	85.8	82.7	80.4	79.4	69.7	54.6	45.6	41.2	42.2	45.6	45.6
15°	99.5	95.8	90.4	83.4	72.0	58.6	47.6	41.2	41.2	40.9	40.2
17.5°	107.2	103.2	93.5	82.4	70.0	58.0	46.6	40.2	36.8	34.2	33.8
20°	119.3	117.2	104.9	89.1	72.0	56.6	44.9	38.5	34.8	32.8	32.2
22.5°	131.0	125.3	109.2	93.1	73.7	56.3	44.2	38.2	34.8	33.2	32.5
25°	137.3	130.3	114.2	97.8	76.0	56.6	44.9	38.9	35.2	33.5	33.2
27.5°	142.4	135.0	119.9	102.2	79.1	58.0	46.9	39.9	35.8	33.8	33.5
30°	149.1	142.0	126.6	107.5	81.7	61.0	49.2	41.5	36.8	34.8	34.5
32.5°	161.8	153.1	135.0	112.2	85.1	64.0	52.3	44.2	38.5	35.5	35.5
35°	188.3	178.9	154.8	125.0	88.8	66.3	54.3	45.9	39.9	36.5	36.2
37.5°	243.9	232.1	202.7	156.4	97.8	69.7	56.6	46.9	40.5	37.5	36.8
40°	270.7	248.9	215.7	174.9	112.9	75.0	60.3	49.2	41.5	37.9	37.5
42.5°	303.2	285.1	239.5	179.6	125.3	87.4	66.7	52.6	43.5	38.5	38.2
45°	335.0	317.2	276.7	218.4	150.7	106.9	77.0	58.3	46.6	40.2	39.2
47.5°	390.6	361.5	312.9	255.6	185.6	135.3	94.8	66.3	51.6	42.2	40.9
50°	528.3	509.2	434.8	347.1	241.5	176.2	129.0	85.1	57.3	43.5	41.5
52.5°	712.5	676.4	591.9	484.4	350.4	261.6	188.6	126.3	70.3	44.9	42.2
55°	1004.3	948.0	850.9	664.6	502.8	396.6	295.1	207.4	107.2	47.9	42.5
57.5°	1316.2	1265.3	1149.4	918.5	681.4	505.2	388.6	292.8	150.4	54.6	46.2
60°	1524.9	1436.1	1303.8	1080.7	823.7	593.9	434.8	307.2	156.1	55.9	48.2
62.5°	1644.5	1552.7	1357.1	1100.8	849.2	613.7	454.9	281.4	124.6	54.3	50.2
64°	*1658.5*	*1570.1*	*1357.7*	*1081.7*	*822.1*	*593.3*	*440.9*	*264.0*	*108.2*	*53.6*	*51.3*
65°	1647.5	1565.8	1341.3	1058.9	785.6	566.8	424.1	246.6	96.1	52.9	51.6
67.5°	1540.0	1468.3	1233.1	960.4	698.5	489.4	348.1	189.6	75.4	51.6	50.9
70°	1247.2	1214.3	1013.7	774.8	552.1	390.3	274.4	145.1	64.0	50.2	49.6
72.5°	935.6	894.1	756.4	591.3	430.1	303.5	208.4	111.6	56.6	48.9	48.2
75°	750.0	709.5	599.6	465.6	319.9	226.8	154.1	83.4	53.3	48.6	47.9
77.5°	620.1	587.6	493.1	354.4	227.5	162.5	113.2	68.0	52.3	48.9	48.2
80°	477.0	471.7	385.2	257.9	161.1	121.3	91.5	63.6	52.6	50.2	49.6
82.5°	334.7	321.3	272.0	192.0	139.4	110.9	87.8	64.7	55.3	53.3	52.9
85°	275.7	265.3	232.8	184.6	132.7	107.2	86.8	66.3	58.0	56.3	55.6
87.5°	272.7	261.3	230.5	176.5	126.0	102.2	82.7	64.7	57.6	56.6	57.3
90°	247.6	239.2	210.7	162.8	125.0	103.8	86.4	71.4	64.0	60.6	60.0
92.5°	216.7	211.7	191.6	158.1	129.6	109.9	94.1	79.1	72.4	70.3	69.3
95°	189.3	187.3	170.8	143.7	119.6	103.5	89.1	76.0	70.3	67.7	67.3
97.5°	155.1	152.8	140.0	122.3	104.5	91.1	80.4	70.3	66.3	66.0	65.7
100°	141.7	140.0	131.0	119.6	105.5	95.5	86.1	77.7	74.4	74.4	74.7
102.5°	131.0	130.0	121.9	110.2	99.2	89.8	82.1	74.4	70.3	70.3	68.0
105°	122.3	120.6	113.2	103.8	92.5	83.7	76.4	70.7	66.3	65.0	65.0
107.5°	114.6	112.6	106.5	97.5	89.1	80.7	74.0	68.7	65.7	64.7	64.7

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

Scaled Data Report

REPORT NUMBER: P1046188
CATALOG NUMBER: FFX-CLB-40-722-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	114.9	113.2	106.2	96.5	88.8	82.4	77.0	72.0	69.3	67.3	67.3
112.5°	141.4	134.3	121.9	107.5	98.8	90.4	82.1	75.0	71.7	71.0	70.3
115°	160.1	153.1	137.7	118.9	103.2	91.5	83.1	77.7	74.7	76.7	77.7
117.5°	160.8	148.1	118.6	109.5	98.2	88.4	82.7	79.4	77.4	79.4	79.4
120°	163.8	138.0	122.3	118.6	105.2	91.5	85.1	84.4	82.4	78.4	78.4
122.5°	243.5	220.1	195.0	163.1	135.3	122.3	110.9	91.1	81.7	77.4	77.0
125°	335.7	311.2	272.0	229.5	189.3	147.4	109.5	93.5	83.7	78.4	77.4
127.5°	356.8	337.7	286.1	235.2	178.2	137.3	109.9	96.1	86.4	80.7	79.7
130°	287.8	272.7	237.8	196.3	156.8	127.0	107.2	93.5	84.1	78.4	77.0
132.5°	255.9	241.9	207.7	169.8	139.0	115.9	98.2	84.8	75.4	71.4	71.4
135°	214.1	204.3	173.9	151.4	129.3	109.9	92.5	80.1	72.4	70.0	70.0
137.5°	183.6	175.9	154.1	136.3	119.3	102.5	87.4	77.4	72.0	69.7	69.3
140°	157.1	152.1	139.4	121.9	105.5	89.1	77.4	71.7	69.3	68.3	68.0
142.5°	136.7	133.0	121.6	103.5	87.4	77.4	73.0	71.4	69.0	66.7	66.3
145°	119.6	116.6	103.5	93.1	85.4	81.4	78.1	73.0	67.3	64.3	64.0
147.5°	134.3	129.6	118.3	106.2	93.8	84.4	77.0	70.3	65.0	63.0	63.0
150°	115.6	112.2	105.2	95.8	85.4	76.7	70.3	66.0	64.0	63.6	63.6
152.5°	89.8	88.1	86.1	81.4	74.7	69.0	65.0	63.0	63.6	65.0	65.3
155°	84.4	83.7	81.7	77.4	73.0	67.7	64.3	63.3	64.3	65.7	66.0
157.5°	80.4	80.1	78.4	74.4	70.3	67.0	64.7	64.0	65.0	66.0	66.0
160°	77.0	76.7	74.4	71.4	68.3	66.0	64.3	64.3	65.3	66.0	66.0
162.5°	75.0	74.7	73.0	70.7	68.7	67.3	67.0	67.0	67.3	67.7	67.7
165°	75.0	74.7	73.0	71.0	69.7	69.7	70.3	70.7	69.7	69.0	69.3
167.5°	78.1	77.4	75.4	73.7	73.4	73.7	74.7	74.7	74.0	73.0	72.7
170°	79.1	78.7	78.1	77.4	77.4	77.4	77.7	78.1	78.1	78.4	78.4
172.5°	81.1	81.1	80.7	80.7	81.1	80.7	80.7	81.4	82.1	82.4	82.7
175°	83.7	83.4	83.7	83.7	84.1	83.7	83.4	84.1	85.1	85.8	85.8
177.5°	85.8	85.8	85.4	85.1	85.1	85.1	85.1	85.4	85.4	85.4	85.1
180°	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

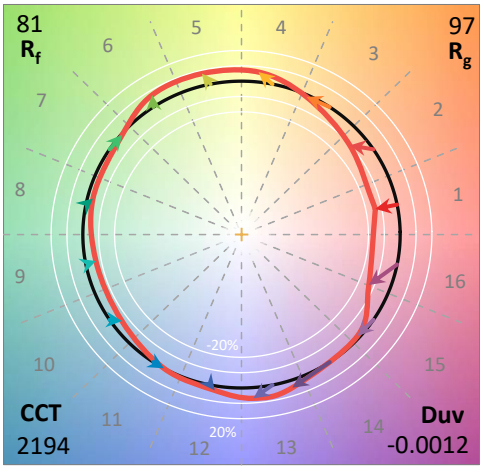
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

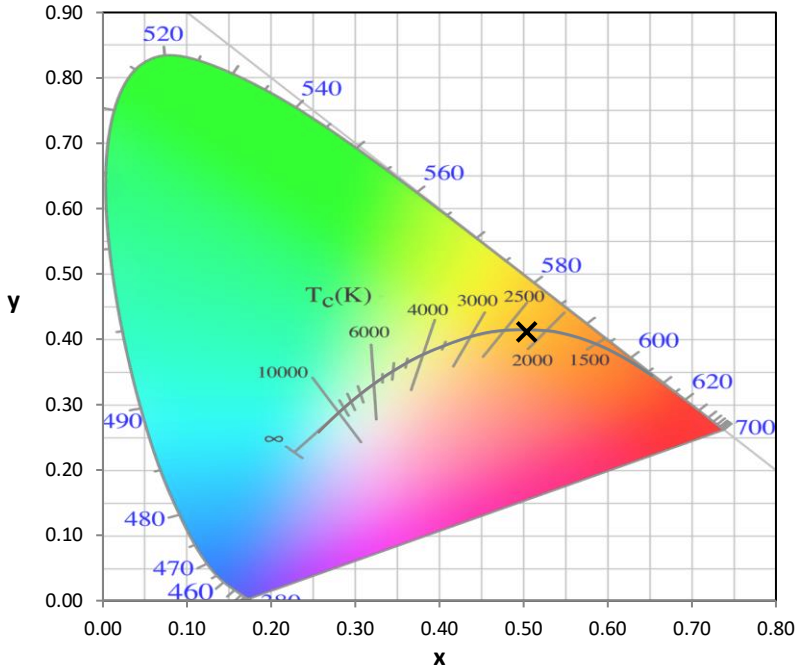
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

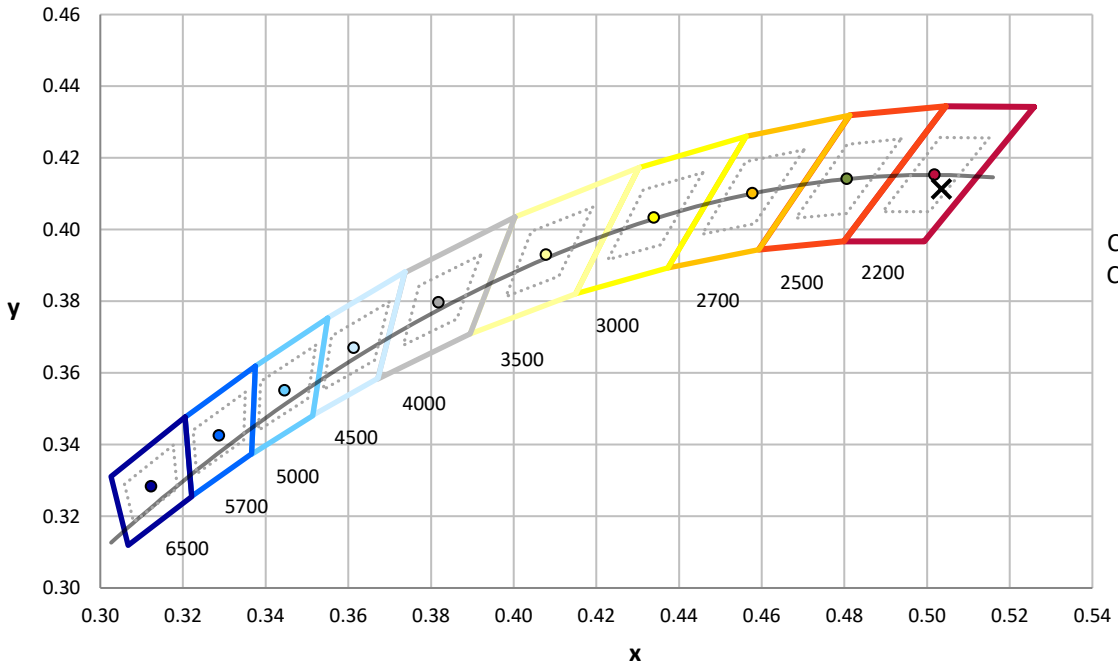
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

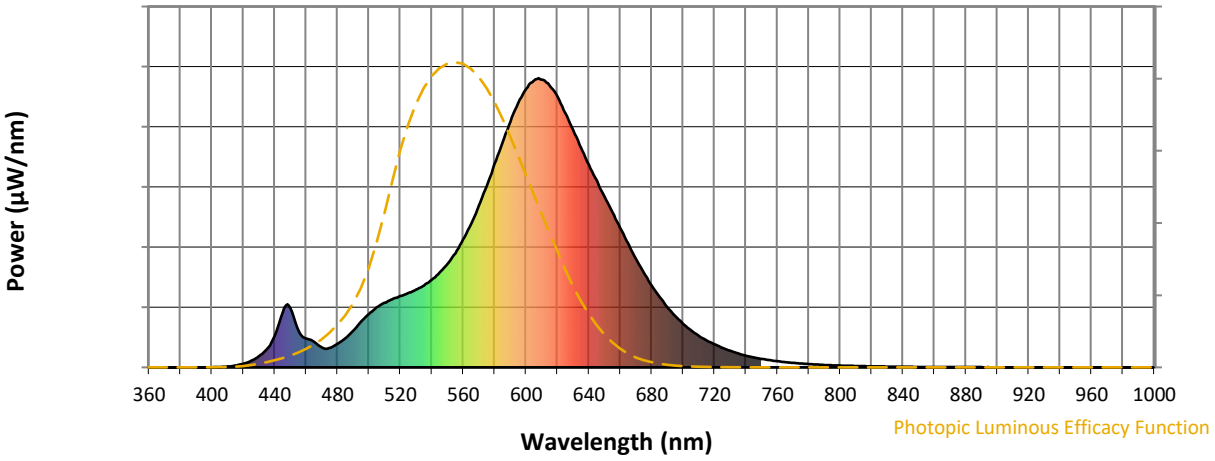


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

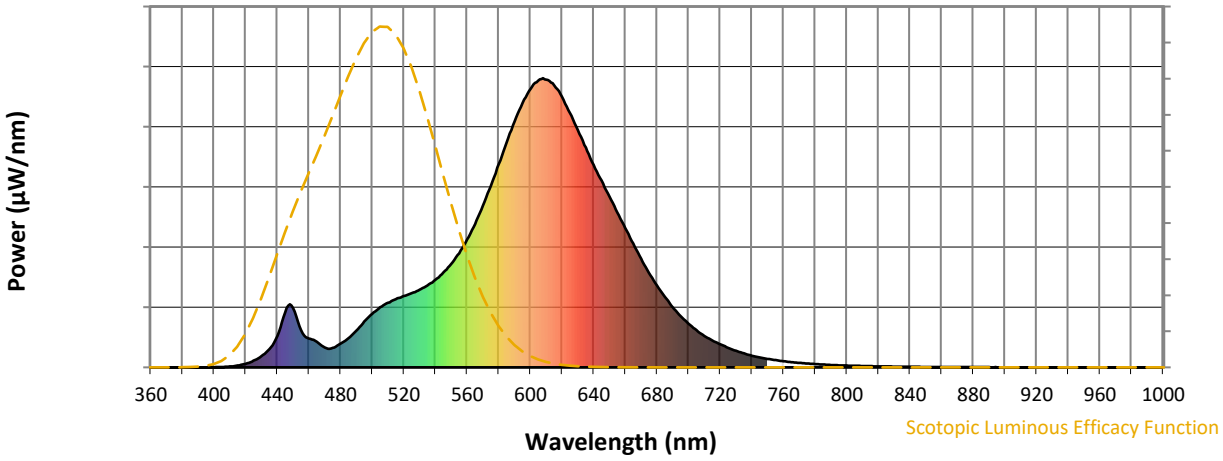


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

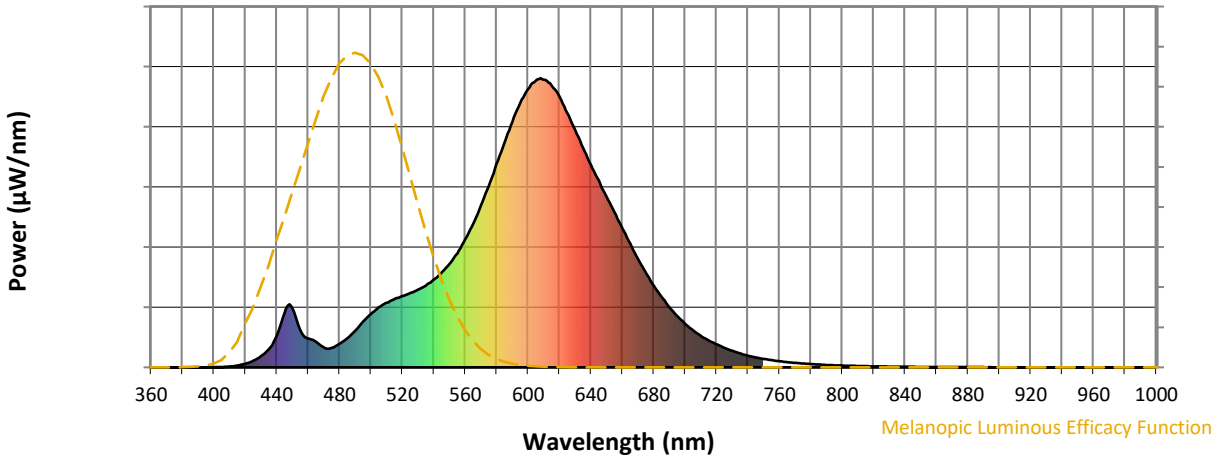


Scotopic Lumens: NR **S/P: 0.96**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

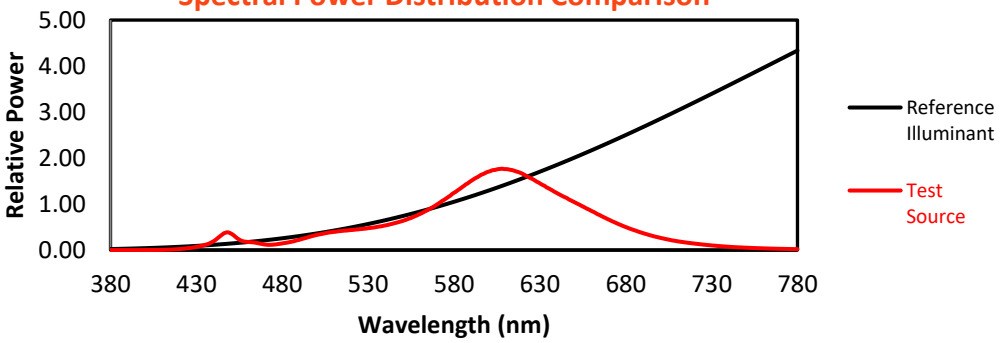
REPORT NUMBER: SP1-2501-332-7

TM-30-18

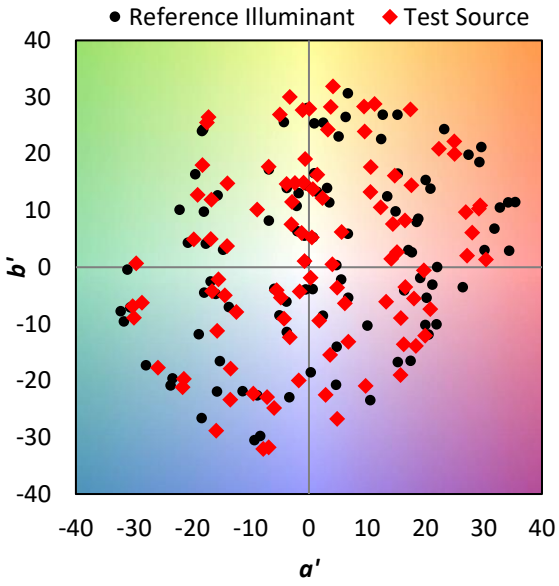
Summary

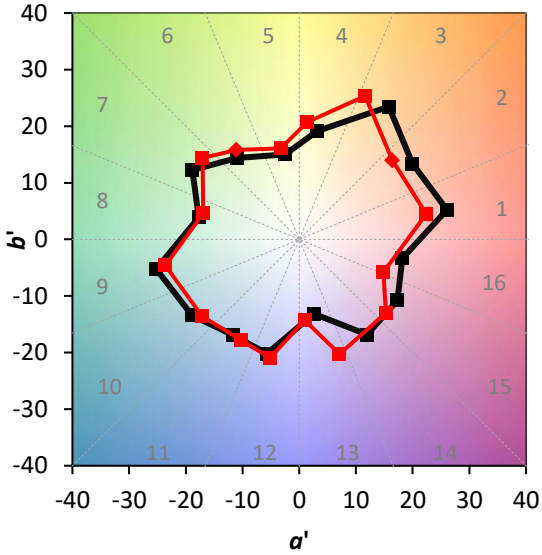
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

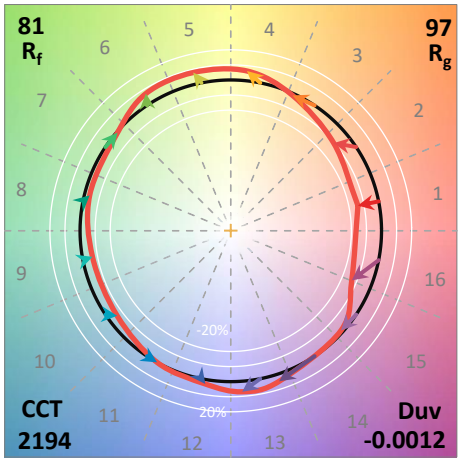
Spectral Power Distribution Comparison

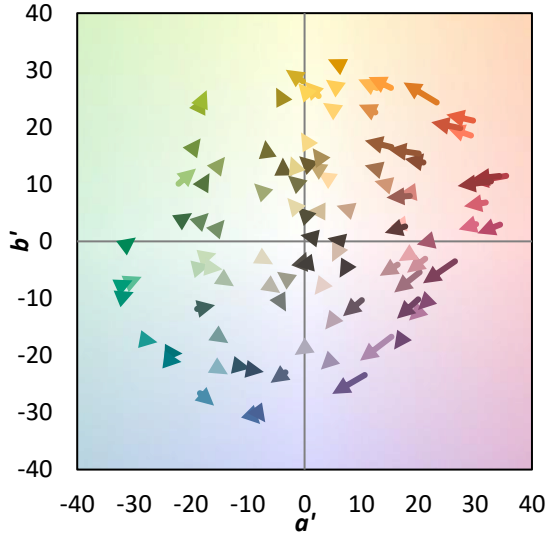


Color Vector Graphics







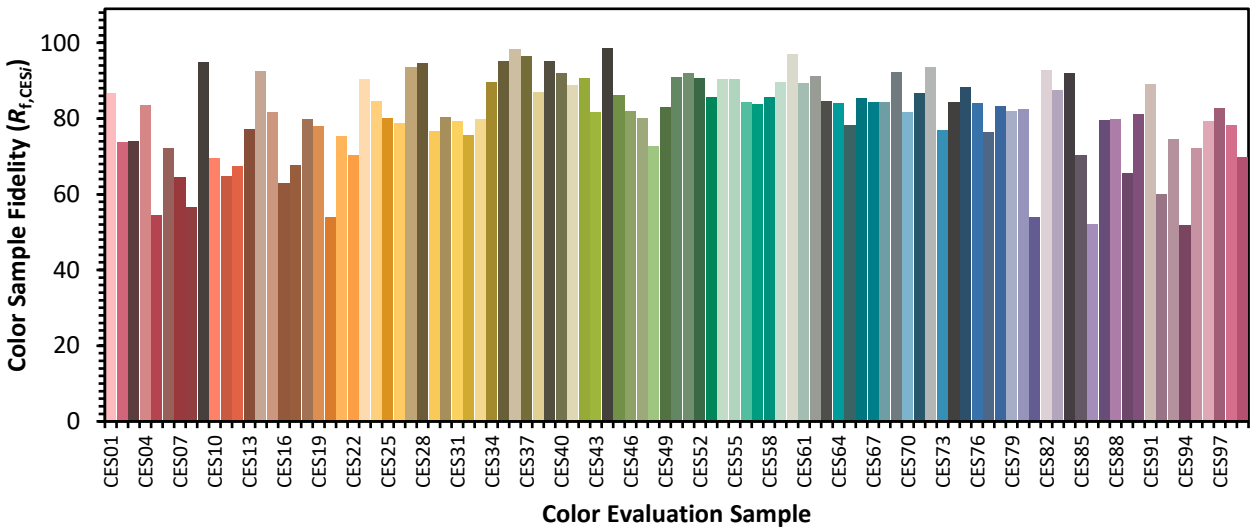


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

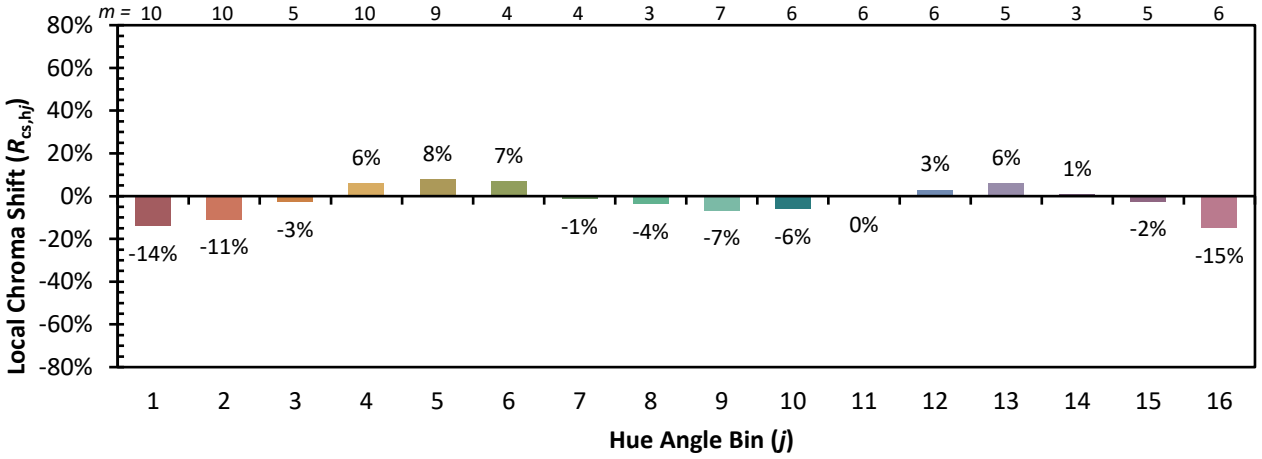
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

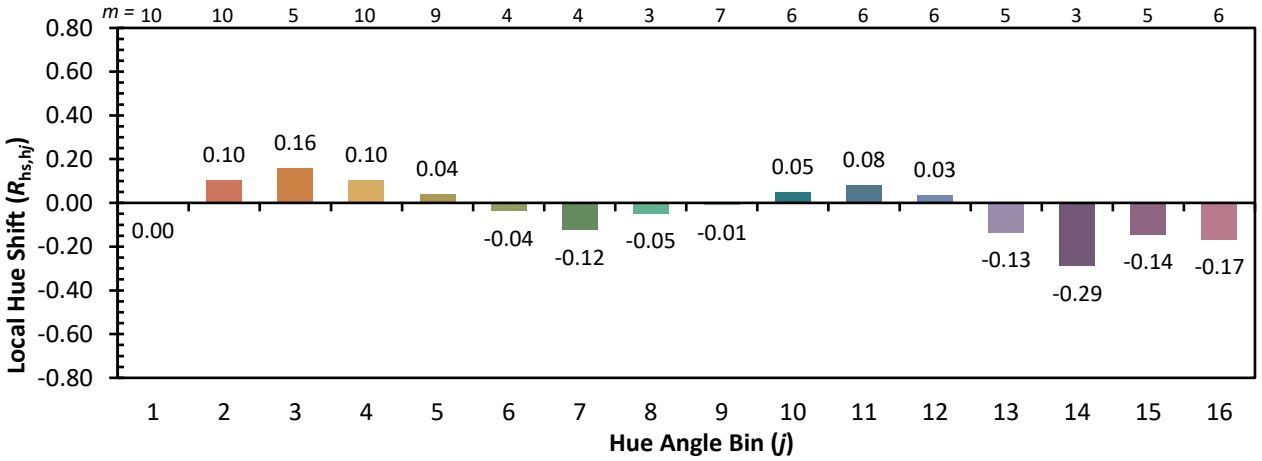


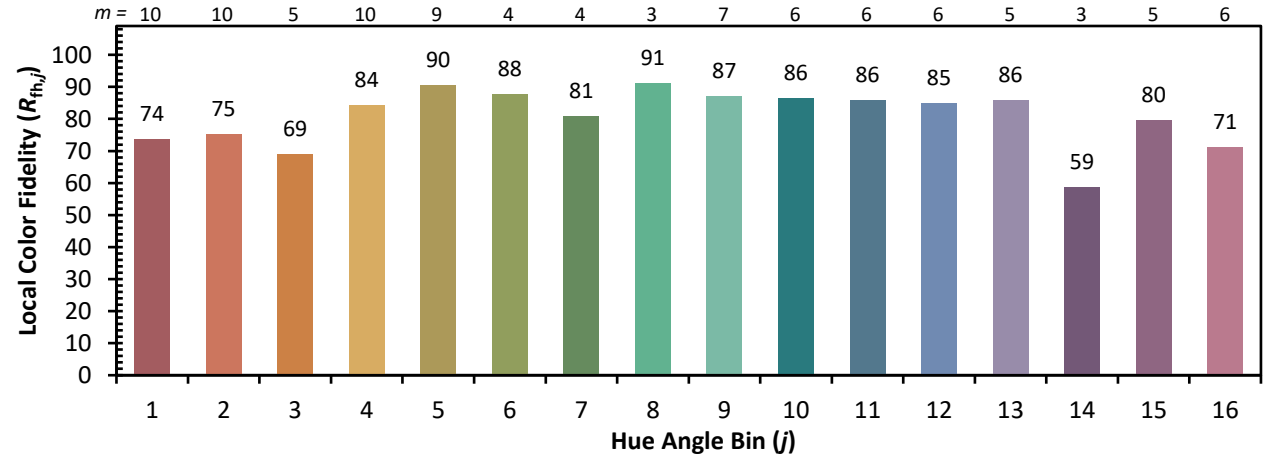
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Color Rendition by Hue-Angle Bin



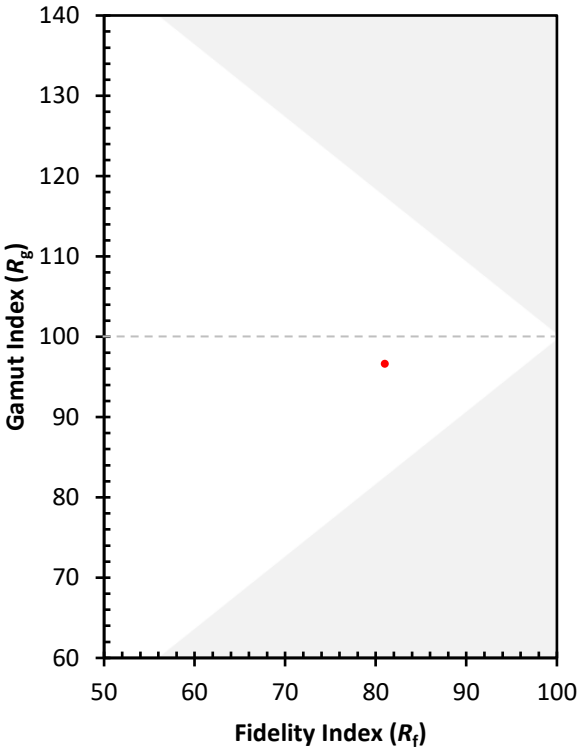


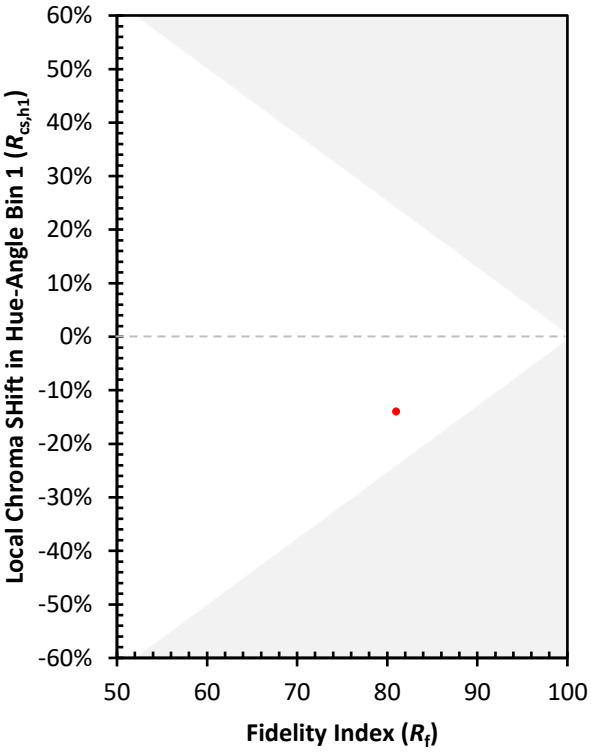


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Measure Comparisons





(END OF REPORT)