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: P1046233

Luminaire Tested: **FFX-CLB-40-722-U-FR-T4-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:	P1046233
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-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4710.2 lumens
Efficiency:	N/A
Efficacy:	119.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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

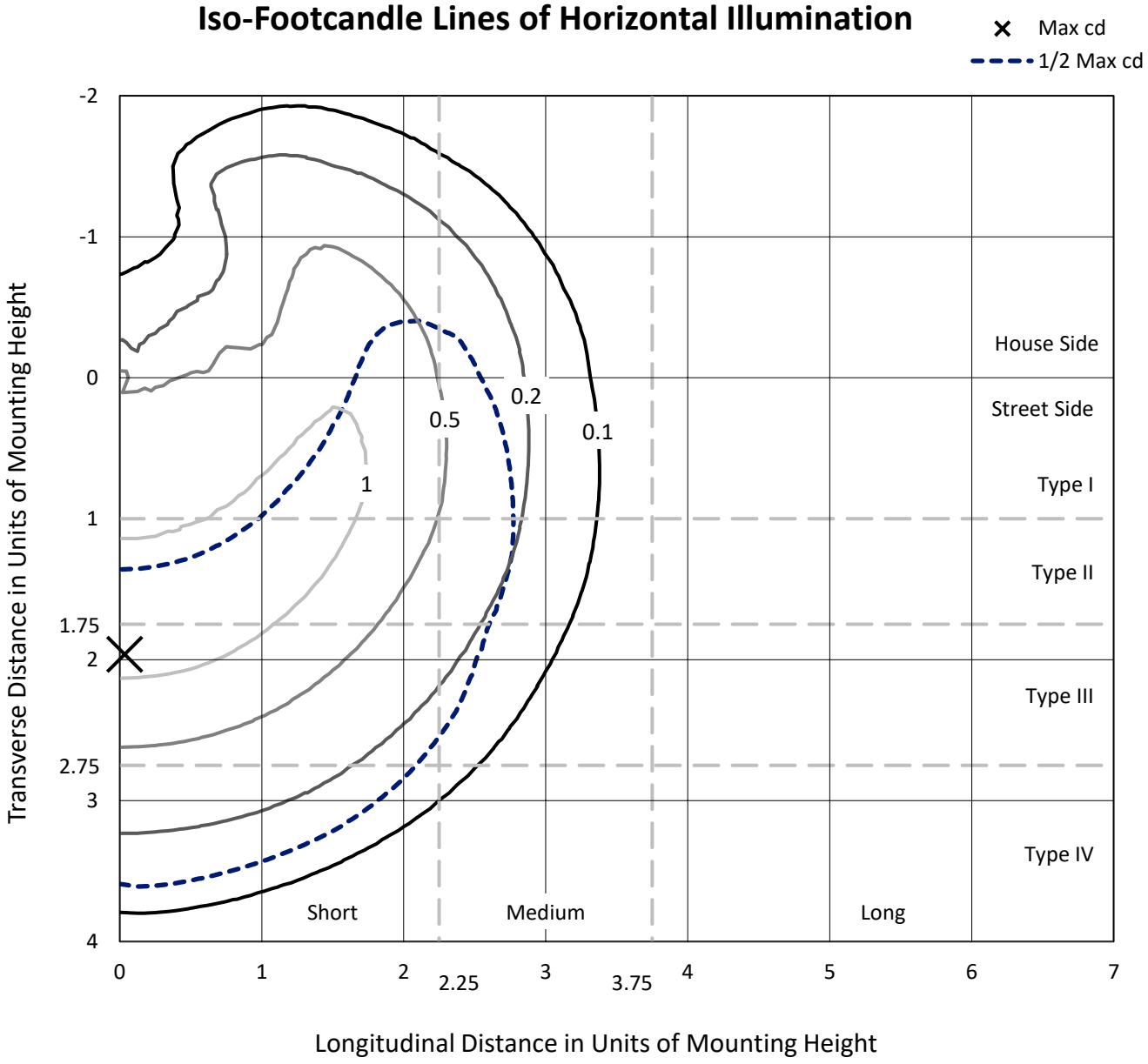


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Iso-Footcandle Lines of Horizontal Illumination



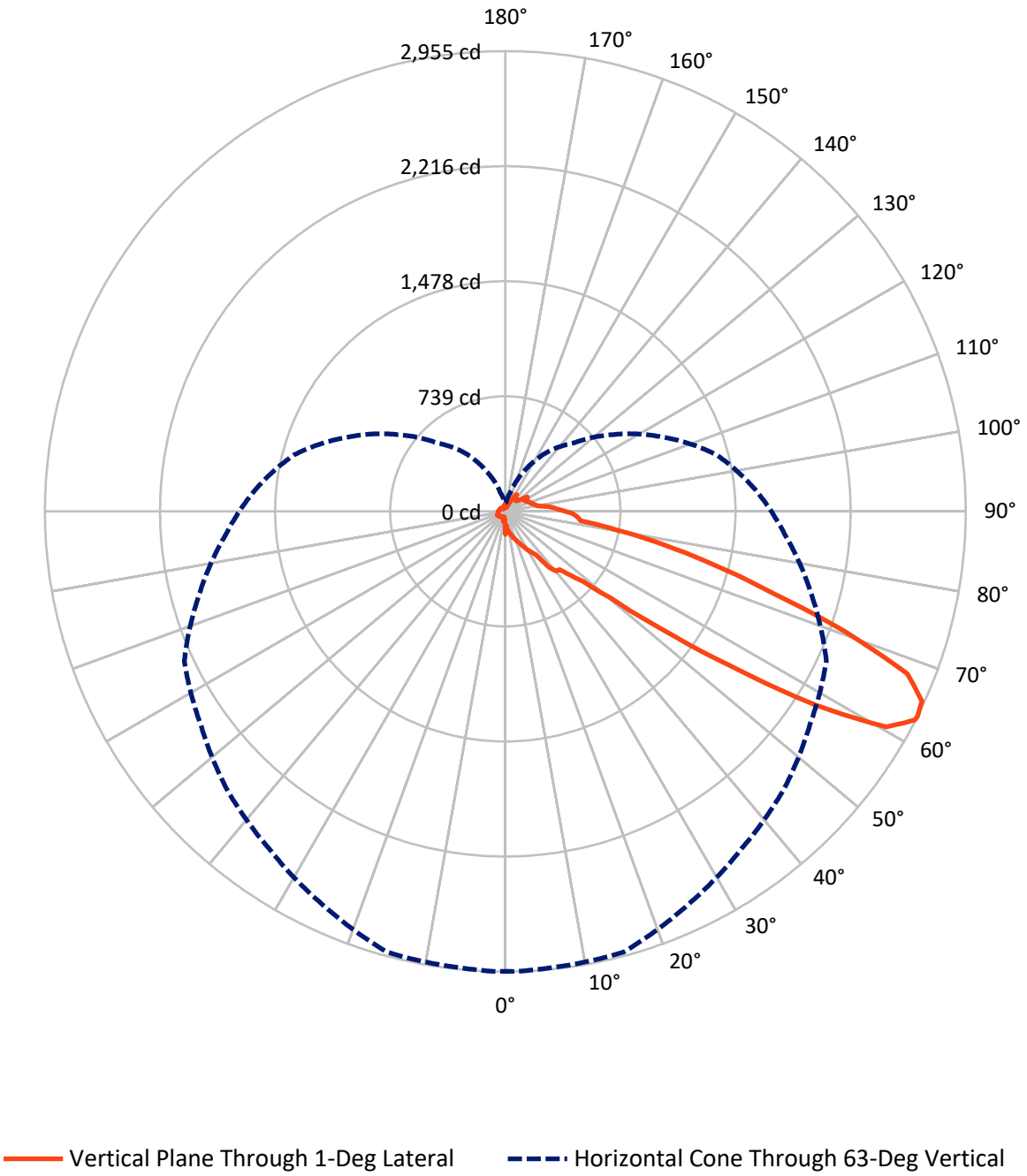
Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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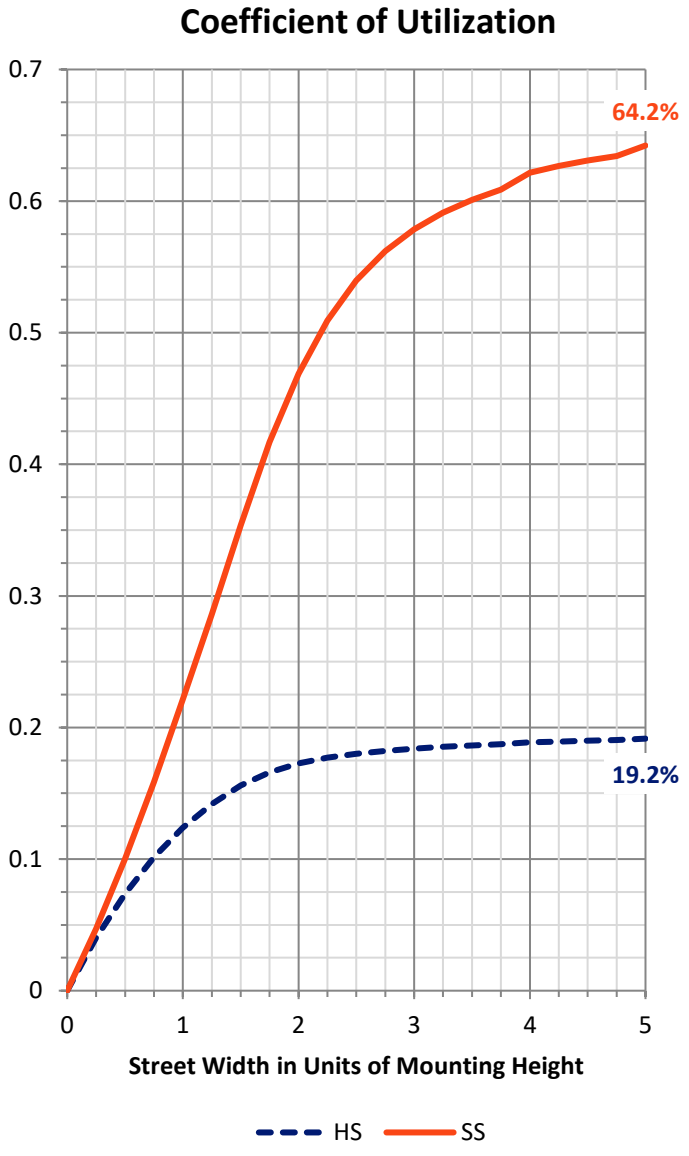
REPORT NUMBER: P1046233
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	932.6	186.8	1119.4
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	3159.5	431.3	3590.8
	% Fixture	67.1	9.2	76.2
Total	Lumens	4092.1	618.1	4710.2
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.2
10°-20°	31.0	0.7
20°-30°	68.3	1.5
30°-40°	139.9	3.0
40°-50°	282.4	6.0
50°-60°	911.7	19.4
60°-70°	1502.1	31.9
70°-80°	828.0	17.6
80°-90°	319.9	6.8
90°-100°	191.8	4.1
100°-110°	122.2	2.6
110°-120°	93.4	2.0
120°-130°	79.7	1.7
130°-140°	53.5	1.1
140°-150°	45.5	1.0
150°-160°	20.7	0.4
160°-170°	8.4	0.2
170°-180°	2.8	0.1
0°-90°	4092.1	86.9
0°-180°	4710.2	100.0



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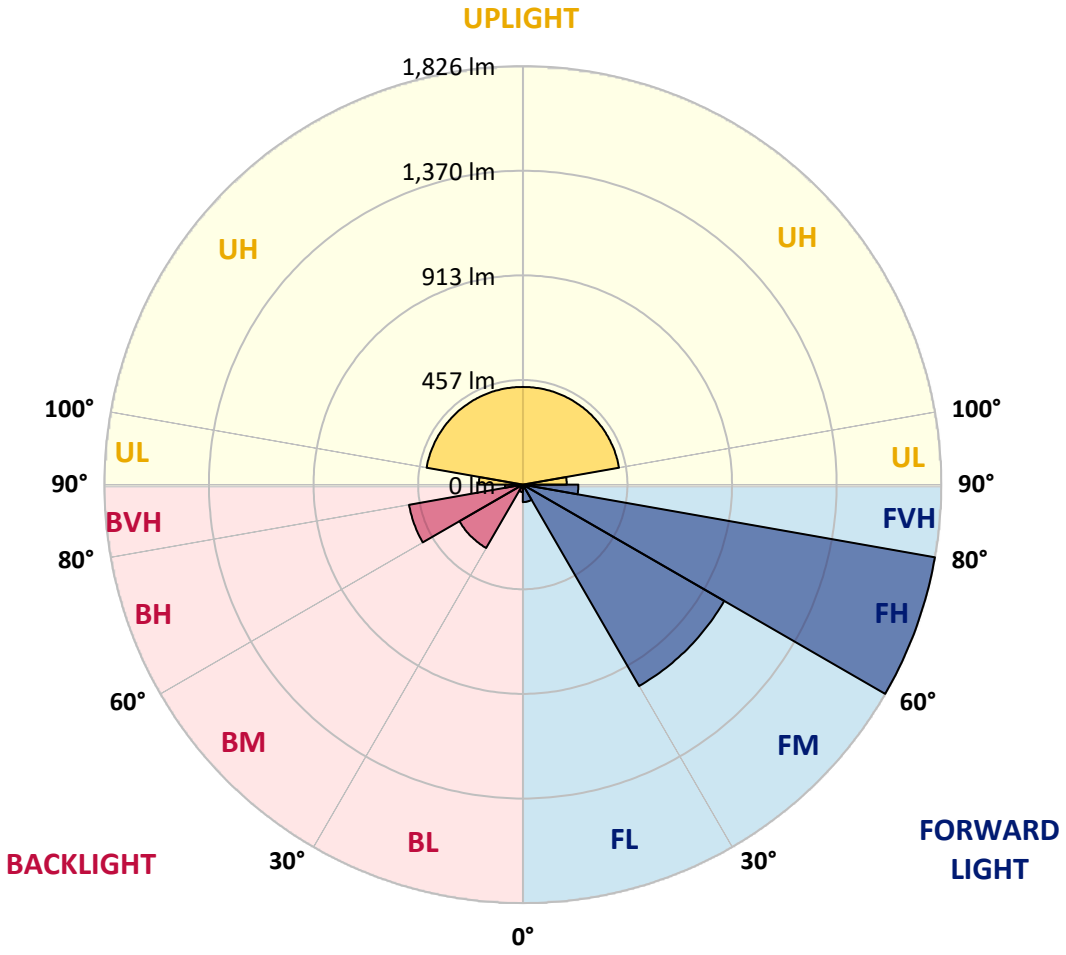
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	76.3	1.6			
FM	(30°-60°)	1014.8	21.5			
FH	(60°-80°)	1826.1	38.8			G2/5000
FVH	(80°-90°)	242.4	5.1			G3/500
BL	(0°-30°)	31.8	0.7	B0/110		
BM	(30°-60°)	319.3	6.8	B1/1000		
BH	(60°-80°)	504.0	10.7	B2/1000		G2/1000
BVH	(80°-90°)	77.5	1.6			G1/100
UL	(90°-100°)	191.8	4.1		U3/500	
UH	(100°-180°)	426.3	9.1		U3/500	

BUG Rating: B2-U3-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1
2.5°	92.1	91.1	95.5	108.9	123.6	128.3	118.6	114.9	125.6	150.4	153.1
5°	106.2	107.9	106.9	108.6	109.9	120.3	129.7	120.0	97.2	79.4	80.8
7.5°	125.3	125.0	125.0	123.6	116.9	106.2	103.2	110.9	111.2	93.1	79.1
10°	133.7	133.4	133.4	132.0	130.7	131.7	128.3	114.3	102.9	95.5	90.8
12.5°	151.4	150.8	150.4	149.8	147.4	144.7	142.4	143.1	133.4	114.9	102.9
15°	166.2	165.5	166.2	166.9	165.2	160.5	153.8	144.4	135.7	128.0	117.3
17.5°	182.3	181.9	181.6	180.9	178.6	172.2	164.2	155.5	145.8	135.0	125.0
20°	197.7	197.0	197.4	197.7	196.7	189.0	180.9	170.2	159.8	149.4	137.7
22.5°	216.1	216.1	215.1	215.1	214.1	209.4	199.4	187.0	176.2	163.2	150.1
25°	239.9	238.9	238.9	237.9	233.9	228.8	221.8	207.7	195.0	182.6	165.2
27.5°	263.4	262.4	262.4	262.0	257.0	250.3	238.6	225.2	213.1	197.4	176.2
30°	290.2	289.5	289.8	286.1	282.1	272.7	258.0	242.6	226.8	208.4	188.0
32.5°	317.3	315.3	315.0	310.9	305.6	294.2	277.8	263.0	246.6	225.2	208.1
35°	349.1	344.8	349.5	348.5	347.8	335.7	317.0	299.9	280.4	261.0	242.6
37.5°	454.3	456.4	455.4	442.0	431.2	414.8	406.4	386.3	359.5	335.7	300.9
40°	503.9	503.3	501.6	486.8	477.1	460.0	446.6	431.6	415.8	378.6	335.4
42.5°	514.7	511.0	513.7	527.4	540.1	528.7	486.2	437.6	415.5	389.3	366.9
45°	593.1	583.7	587.7	591.4	579.0	562.6	544.1	512.6	475.5	437.9	396.7
47.5°	676.8	671.8	671.5	670.1	671.5	655.7	631.3	602.1	549.5	509.0	463.1
50°	880.9	874.2	876.2	877.9	870.8	854.8	828.3	809.2	746.2	668.5	608.8
52.5°	1255.2	1251.1	1241.8	1242.4	1179.1	1175.7	1139.9	1122.8	1030.0	941.2	820.9
55°	1717.2	1743.3	1714.5	1708.8	1682.7	1659.2	1569.4	1495.1	1362.0	1234.4	1093.3
57.5°	2343.1	2347.5	2310.9	2311.9	2219.1	2160.2	2077.4	1963.5	1765.5	1581.2	1423.0
60°	2799.1	2810.2	2793.1	2757.6	2578.0	2472.4	2381.3	2291.5	2140.4	1866.6	1646.5
62.5°	2947.6	2950.9	2940.2	2921.4	2762.9	2628.2	2511.0	2380.6	2264.7	2018.1	1797.0
63°	2952.9	2955.3	2946.9	2930.8	2783.7	2644.0	2526.7	2387.3	2273.8	2031.5	1806.0
65°	2938.5	2939.5	2935.8	2914.4	2796.8	2649.0	2520.0	2382.6	2278.4	2036.9	1806.0
67.5°	2808.9	2783.4	2794.1	2757.9	2660.1	2513.0	2389.7	2249.6	2155.8	1922.3	1701.1
70°	2310.9	2312.6	2310.9	2291.2	2263.4	2147.1	2003.0	1877.0	1758.4	1575.1	1401.6
72.5°	1787.9	1794.9	1779.5	1790.9	1768.5	1672.3	1579.2	1451.5	1368.1	1212.6	1059.5
75°	1384.8	1399.2	1403.9	1371.4	1352.0	1331.5	1280.6	1188.8	1105.4	985.1	851.4
77.5°	1046.4	1049.1	1053.1	1031.0	1005.5	1013.6	1006.2	962.6	892.6	804.2	697.9
80°	723.1	730.8	743.8	731.1	734.1	729.4	728.4	693.6	643.0	587.4	530.4
82.5°	485.8	485.5	488.9	509.3	528.1	527.4	497.6	448.7	422.9	406.8	374.6
85°	465.1	465.1	469.8	455.0	445.6	436.3	434.2	417.5	397.7	361.5	317.0
87.5°	433.6	432.6	433.9	421.2	408.8	405.8	402.7	388.3	379.6	348.1	307.3
90°	370.9	373.6	373.6	372.6	364.9	361.9	349.8	337.7	332.4	303.9	271.7
92.5°	327.4	327.4	331.0	324.7	316.3	321.0	300.2	284.5	277.1	258.0	232.5
95°	295.9	294.9	299.5	290.5	284.5	275.8	267.0	250.6	245.3	228.8	203.0
97.5°	236.2	235.2	237.9	233.5	224.2	220.1	210.8	197.7	192.7	177.2	161.5
100°	203.4	203.0	204.1	201.7	196.3	191.3	183.3	172.9	168.2	155.5	141.4
102.5°	193.0	192.0	192.3	192.7	185.0	180.3	172.6	164.5	159.8	149.4	134.0
105°	183.6	182.9	182.3	182.3	173.6	168.9	163.8	158.5	154.5	143.1	128.3
107.5°	174.9	173.9	171.6	171.2	165.5	160.5	154.5	149.8	145.8	135.4	121.3

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	165.2	*164.9*	163.5	163.8	160.2	152.5	147.4	141.7	136.7	127.7	115.3
112.5°	160.2	*160.2*	159.2	160.8	146.8	139.1	133.7	128.7	125.3	116.6	107.2
115°	154.8	*152.1*	151.1	154.5	138.4	127.7	122.3	116.9	113.6	104.9	97.2
117.5°	143.4	*142.7*	143.1	145.8	141.1	129.3	120.6	113.9	110.6	104.2	97.2
120°	163.5	*162.8*	158.8	158.2	150.1	140.7	135.0	131.3	126.3	115.9	102.5
122.5°	170.9	*169.5*	163.2	165.2	154.5	149.8	147.4	146.1	141.4	127.7	107.2
125°	148.8	*146.8*	145.1	145.8	139.7	133.7	131.3	129.3	124.6	116.9	102.2
127.5°	119.3	*120.3*	118.9	115.3	114.3	105.2	102.2	99.8	95.5	89.1	86.8
130°	111.9	*111.2*	110.9	110.2	109.6	102.9	98.2	92.5	88.8	83.4	77.1
132.5°	99.5	*100.2*	101.2	106.9	112.2	106.6	94.5	85.8	83.4	84.4	81.8
135°	94.5	*94.8*	94.8	99.2	103.9	98.2	89.1	80.8	79.7	83.4	80.1
137.5°	96.8	*98.5*	98.2	97.2	94.5	90.5	88.5	83.8	81.1	78.7	73.0
140°	102.2	*104.2*	103.2	97.5	95.5	93.5	94.8	93.1	86.4	78.4	70.0
142.5°	101.5	*103.2*	102.5	101.9	105.5	100.9	94.5	88.1	82.8	78.4	73.0
145°	131.7	*131.0*	128.3	128.3	124.0	116.9	112.6	105.9	99.5	93.8	85.1
147.5°	121.6	*123.3*	124.0	121.0	118.9	114.3	113.6	109.9	107.9	102.9	93.8
150°	96.5	*97.8*	95.8	93.5	92.5	92.8	91.1	88.5	86.4	82.8	78.7
152.5°	66.7	*67.3*	66.7	64.7	64.0	63.0	63.3	61.3	60.0	57.6	53.9
155°	60.6	*61.0*	61.3	58.0	57.3	57.6	58.0	56.6	53.9	51.9	47.6
157.5°	47.6	*46.9*	46.9	46.2	46.6	45.6	45.6	45.2	44.2	42.9	41.5
160°	37.9	*38.2*	38.2	38.2	38.9	38.2	38.2	37.2	37.2	36.5	35.9
162.5°	32.2	*32.2*	32.2	32.2	31.8	31.8	32.5	32.2	32.2	32.5	33.2
165°	27.1	*27.5*	27.5	27.5	27.5	27.5	28.1	28.1	28.8	30.2	31.8
167.5°	25.5	*25.1*	25.1	25.5	25.5	26.1	26.1	27.5	29.8	32.2	32.2
170°	24.1	*24.1*	24.1	24.5	24.5	24.8	25.8	28.1	30.8	31.8	30.5
172.5°	25.1	*24.8*	24.8	25.1	25.1	26.1	27.5	29.5	30.5	30.5	29.2
175°	25.8	*25.5*	25.5	25.8	25.8	26.5	27.8	29.2	29.8	30.2	30.2
177.5°	25.1	*25.1*	25.1	25.1	25.1	25.5	25.5	26.5	27.1	27.8	28.5
180°	24.1	*24.1*	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1
2.5°	153.1	139.7	120.0	95.8	111.6	131.0	128.3	113.3	90.5	68.0	68.0
5°	84.8	89.8	94.8	83.1	74.4	73.7	71.7	64.3	63.3	52.3	49.3
7.5°	74.0	69.4	68.4	80.8	79.7	52.6	41.5	36.9	38.9	52.6	54.3
10°	88.8	86.8	80.4	67.0	56.0	50.9	50.6	51.3	46.9	37.9	35.5
12.5°	100.2	96.8	91.1	87.1	74.4	59.3	50.9	47.2	49.9	63.3	66.3
15°	111.2	106.6	96.8	85.8	73.0	62.0	53.3	45.6	45.6	43.6	42.6
17.5°	120.0	113.9	102.2	90.1	75.7	62.0	50.6	42.9	39.2	38.5	38.5
20°	131.0	125.3	112.6	97.8	79.7	62.7	50.3	42.9	38.5	36.9	36.5
22.5°	144.7	137.4	121.0	103.5	82.1	63.3	50.9	43.2	38.9	36.5	35.9
25°	157.5	149.1	129.7	111.6	87.5	65.0	51.6	44.2	39.5	36.9	36.5
27.5°	167.9	158.8	140.7	120.0	93.1	69.0	55.0	46.2	40.5	37.9	37.2
30°	179.6	171.2	152.1	128.7	98.5	74.0	59.6	49.9	43.6	39.9	39.5
32.5°	197.0	186.6	164.5	137.7	104.9	79.4	64.3	53.3	45.6	43.6	43.6
35°	228.5	217.8	188.6	152.5	110.9	84.8	69.0	57.0	48.6	43.9	43.6
37.5°	287.5	272.7	236.2	186.0	121.3	89.1	73.0	60.0	50.3	43.6	42.6
40°	314.6	289.5	250.6	203.7	136.4	94.2	76.4	62.3	50.6	44.6	43.9
42.5°	346.8	325.7	270.7	208.1	147.4	106.6	82.1	65.0	52.6	45.9	45.2
45°	377.6	357.2	310.9	245.9	172.2	125.0	92.1	70.4	56.0	47.9	46.6
47.5°	433.6	412.1	347.8	284.8	206.4	153.8	112.2	78.7	60.6	49.9	48.2
50°	579.0	548.5	472.8	377.3	264.0	195.3	143.7	96.2	67.0	50.9	48.9
52.5°	766.6	720.1	638.0	516.0	377.6	276.4	201.4	139.7	78.1	51.3	48.2
55°	1070.9	1013.6	881.6	703.3	528.7	412.5	304.9	214.8	114.9	53.6	47.9
57.5°	1359.4	1316.8	1201.5	962.3	701.3	524.0	401.1	302.2	156.5	59.0	50.3
60°	1571.5	1490.4	1355.7	1110.4	847.0	608.1	446.3	314.3	160.8	60.0	51.9
62.5°	1698.1	1597.9	1398.2	1131.8	867.8	625.6	464.4	289.2	130.0	58.6	54.3
63°	*1707.5*	*1610.3*	*1403.6*	*1124.5*	*861.1*	*620.9*	*461.7*	*283.1*	*126.3*	*58.3*	*55.0*
65°	1695.8	1611.3	1384.8	1085.9	804.2	579.3	429.9	254.3	102.5	57.3	55.6
67.5°	1579.2	1510.5	1286.6	981.7	716.0	500.3	355.8	194.0	80.1	54.6	53.9
70°	1321.8	1243.1	1040.0	811.5	567.6	404.1	283.8	150.4	66.0	51.9	51.3
72.5°	983.8	950.9	790.1	617.5	436.6	311.6	213.1	114.3	58.6	49.9	49.3
75°	795.4	746.2	626.6	487.9	332.0	231.5	158.2	85.8	53.6	48.2	47.6
77.5°	657.7	624.9	521.4	368.2	236.9	166.9	116.3	68.0	51.3	47.2	46.9
80°	509.3	488.9	406.8	272.4	169.5	124.3	92.1	62.3	50.3	46.9	46.6
82.5°	359.2	352.8	296.2	203.7	144.1	111.2	85.8	61.3	50.6	47.6	46.9
85°	297.5	283.8	249.3	193.7	136.7	106.6	82.8	60.3	50.6	47.2	46.9
87.5°	289.8	278.4	241.2	181.3	125.3	98.5	77.7	58.0	48.9	45.9	45.6
90°	262.0	250.6	216.1	161.8	117.9	92.5	72.7	55.0	46.9	44.6	43.9
92.5°	223.5	213.1	187.6	147.1	112.9	88.8	70.7	53.9	46.6	43.9	43.6
95°	194.0	185.3	164.5	135.4	104.2	82.8	67.0	51.9	45.2	42.9	42.6
97.5°	154.5	149.1	133.0	110.2	88.1	72.4	60.0	48.9	43.6	41.5	41.2
100°	136.0	131.3	118.6	99.8	81.8	68.4	58.0	47.9	42.2	40.5	40.2
102.5°	127.7	124.0	112.6	93.8	76.7	65.0	55.3	46.2	41.2	39.5	39.2
105°	121.3	117.9	107.6	89.5	72.4	60.6	51.9	44.2	39.5	38.2	37.9
107.5°	113.6	110.9	100.9	83.1	68.0	57.0	49.3	42.6	38.5	37.2	37.2

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

Scaled Data Report

REPORT NUMBER: P1046233
CATALOG NUMBER: FFX-CLB-40-722-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	107.2	105.2	94.8	79.4	65.0	54.6	47.6	41.9	38.2	36.9	36.9
112.5°	100.5	98.2	88.5	74.7	62.3	52.9	46.2	40.9	37.5	36.2	36.2
115°	93.1	90.8	81.4	69.4	59.0	50.3	44.2	39.2	36.2	35.2	35.2
117.5°	94.5	88.5	77.1	66.3	56.3	48.2	42.9	38.5	35.2	34.5	34.2
120°	95.8	88.1	79.7	69.7	58.0	47.2	41.9	37.5	34.8	33.8	33.8
122.5°	93.5	94.5	87.1	71.7	55.3	46.2	41.5	37.9	35.2	34.2	34.5
125°	91.5	93.8	85.1	67.7	53.3	45.9	41.5	38.9	36.5	35.5	35.5
127.5°	84.1	84.4	72.4	60.6	51.9	44.9	41.2	39.2	37.2	35.9	35.2
130°	74.0	73.4	67.7	59.0	48.9	43.2	39.9	38.9	36.9	34.5	34.2
132.5°	79.4	77.4	68.0	56.0	46.2	41.5	39.5	38.2	34.8	32.2	31.8
135°	75.4	73.4	63.7	52.3	44.9	42.2	41.2	37.9	32.8	30.8	30.5
137.5°	68.7	65.3	57.3	49.9	45.6	43.9	41.5	37.2	32.2	29.8	29.5
140°	66.0	62.7	56.3	51.3	46.2	40.9	36.9	32.8	29.5	27.5	27.1
142.5°	69.4	66.7	60.3	51.3	43.2	37.5	33.8	31.2	28.1	25.1	24.8
145°	80.8	75.7	67.0	57.6	49.3	42.6	36.9	31.2	25.8	22.4	22.1
147.5°	89.5	85.4	76.1	65.3	53.6	42.9	34.5	27.5	23.1	21.1	20.8
150°	74.4	72.0	65.0	56.3	47.6	37.9	29.8	24.5	21.8	21.1	21.1
152.5°	51.9	50.3	47.9	42.2	35.5	29.8	25.5	22.8	21.8	21.4	21.4
155°	45.9	44.9	41.9	36.9	32.2	27.8	24.5	22.4	22.1	21.8	21.8
157.5°	39.5	39.2	37.2	33.2	29.5	26.1	23.8	22.8	22.1	21.8	21.8
160°	35.5	34.5	32.5	29.8	27.5	25.5	24.1	23.5	22.8	22.4	22.4
162.5°	33.2	32.5	30.2	28.1	26.8	26.5	26.8	26.5	24.8	23.8	23.5
165°	31.5	31.2	28.8	27.5	26.8	28.5	30.5	29.8	26.8	25.1	25.1
167.5°	31.5	30.8	28.5	27.5	29.2	31.5	33.2	32.8	30.2	28.5	27.5
170°	29.8	29.2	28.5	28.8	31.2	32.2	32.5	33.2	33.5	35.2	35.9
172.5°	28.8	28.8	29.5	30.8	32.8	33.2	32.2	32.5	35.5	39.2	39.5
175°	30.2	30.2	31.5	33.8	34.8	35.5	34.2	34.5	37.9	41.5	41.9
177.5°	28.8	29.2	29.8	30.2	29.8	28.8	28.5	29.8	28.8	28.5	29.5
180°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1

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

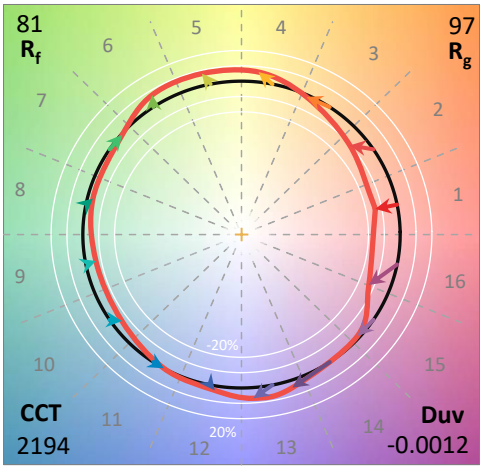
Test Information

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

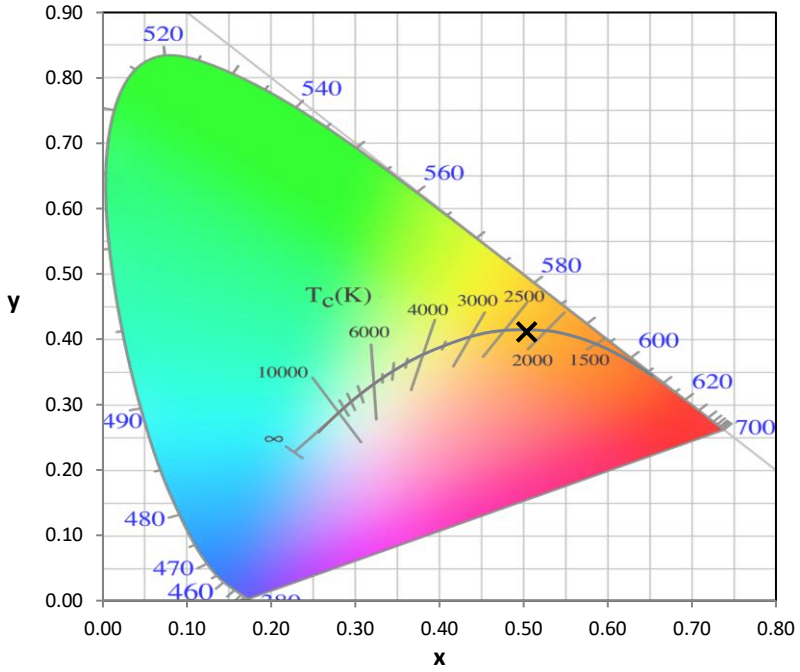
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

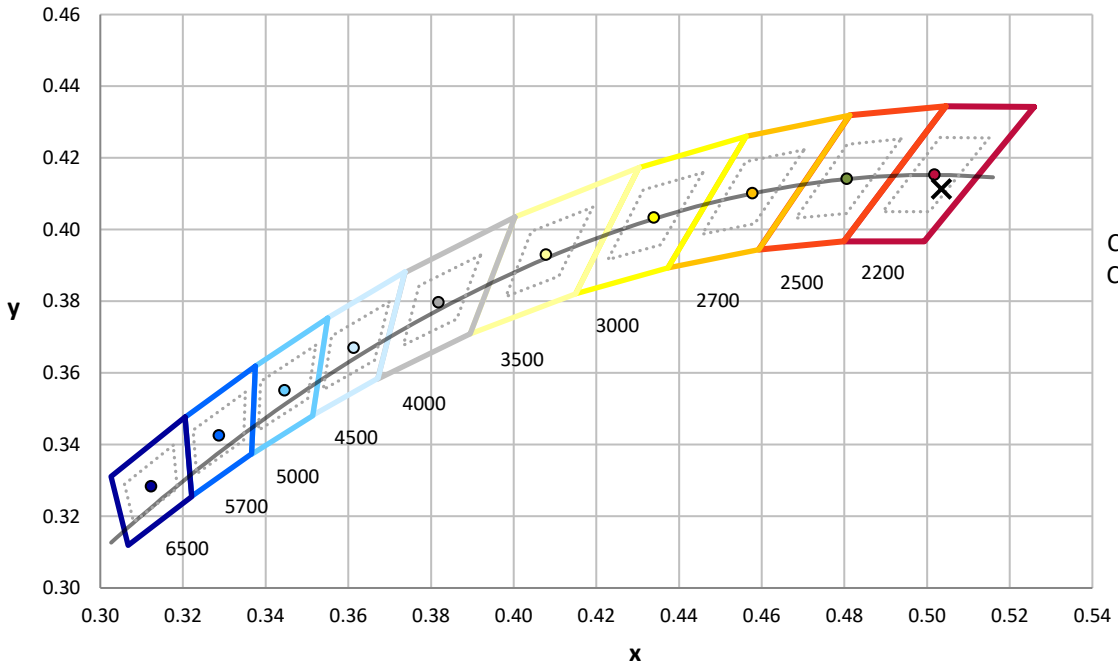
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

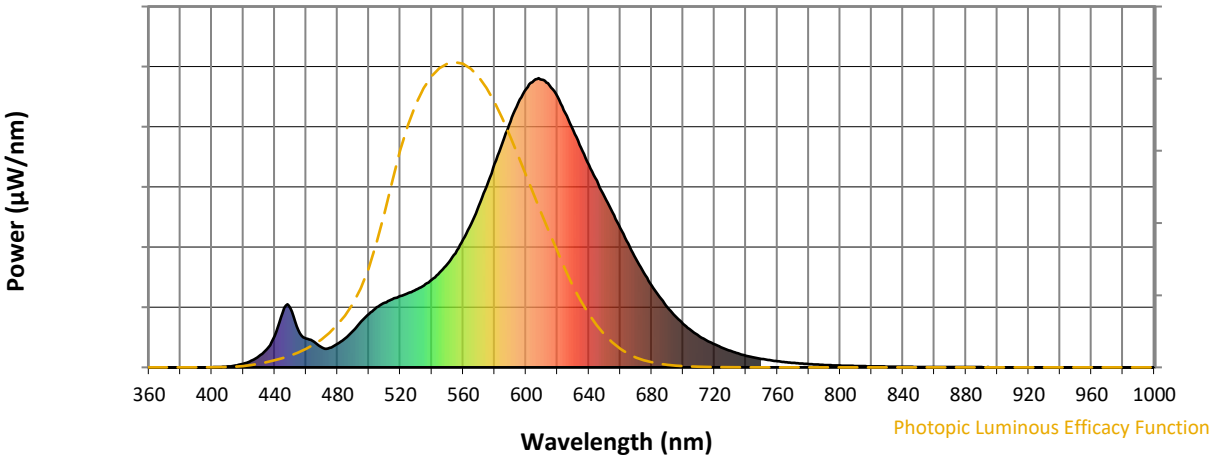


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

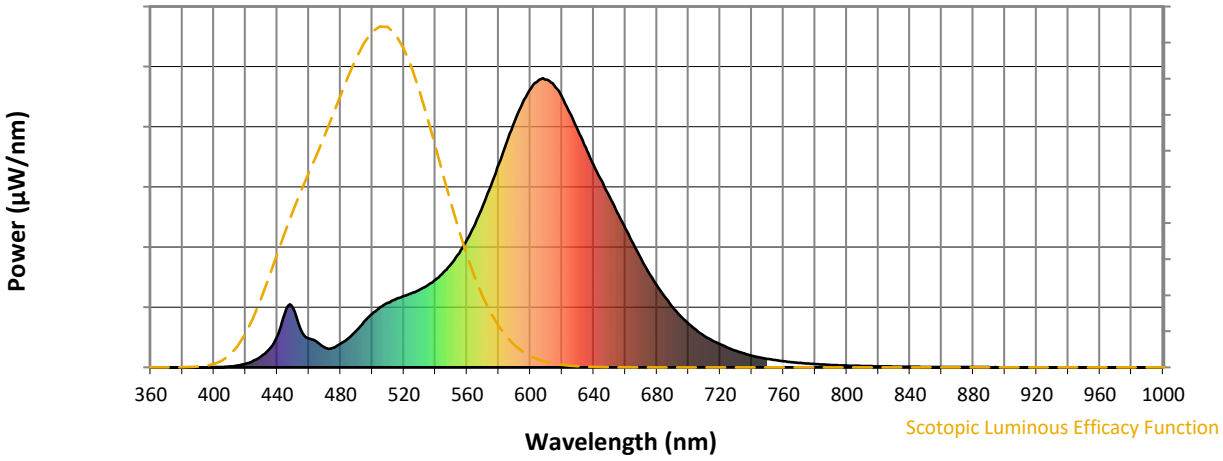


Photopic Lumens: NR

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

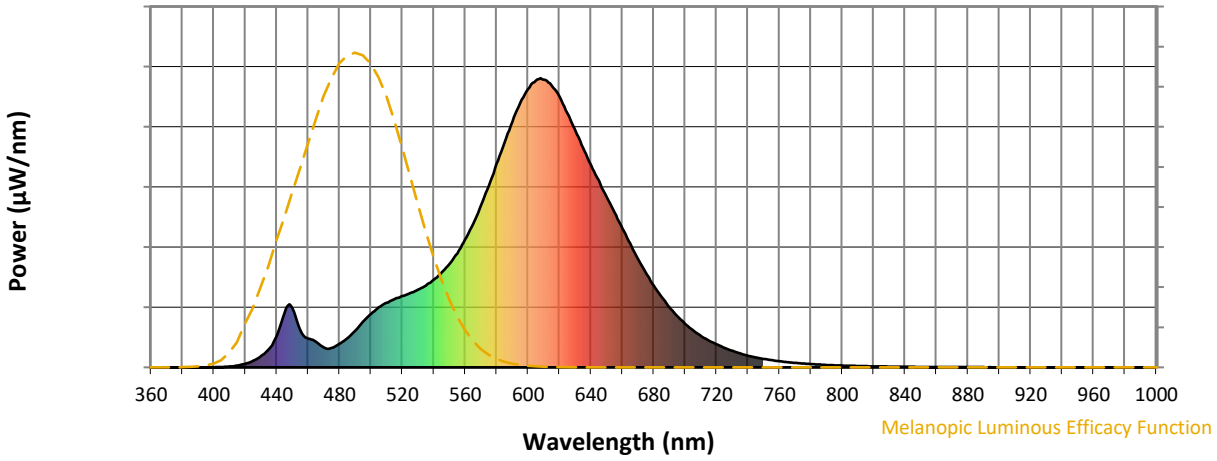


Scotopic Lumens: NR **S/P: 0.96**

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			

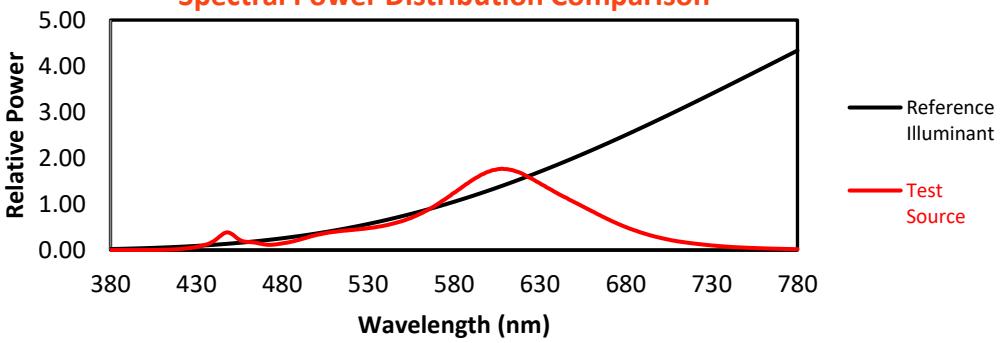
REPORT NUMBER: SP1-2501-332-7

TM-30-18

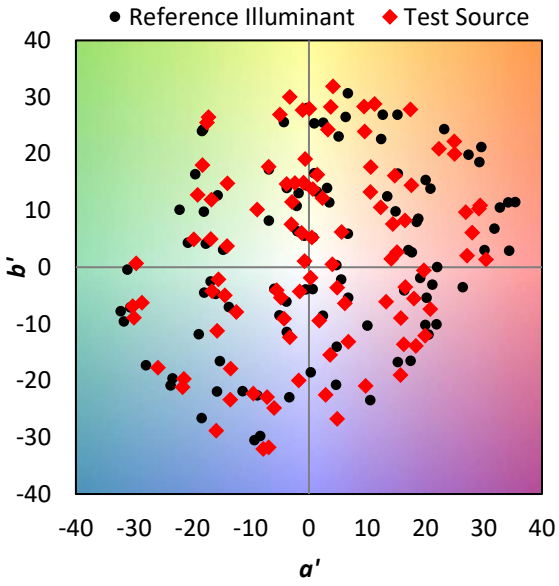
Summary

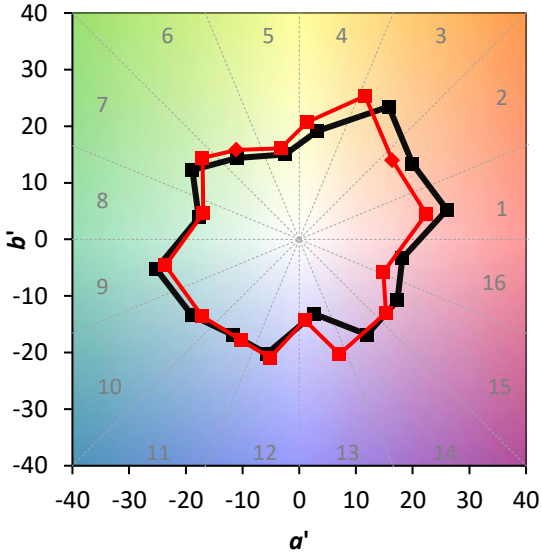
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

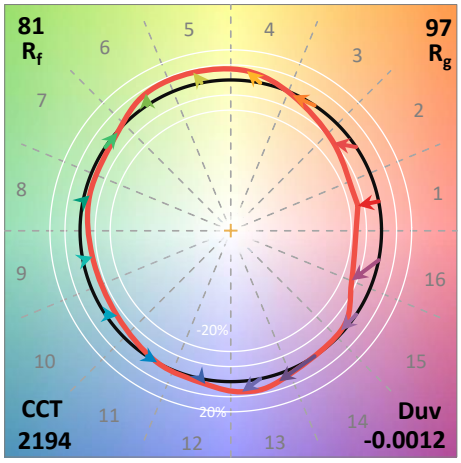
Spectral Power Distribution Comparison

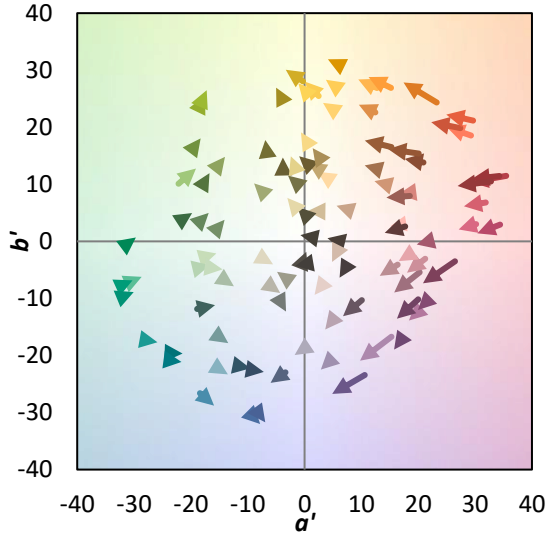


Color Vector Graphics







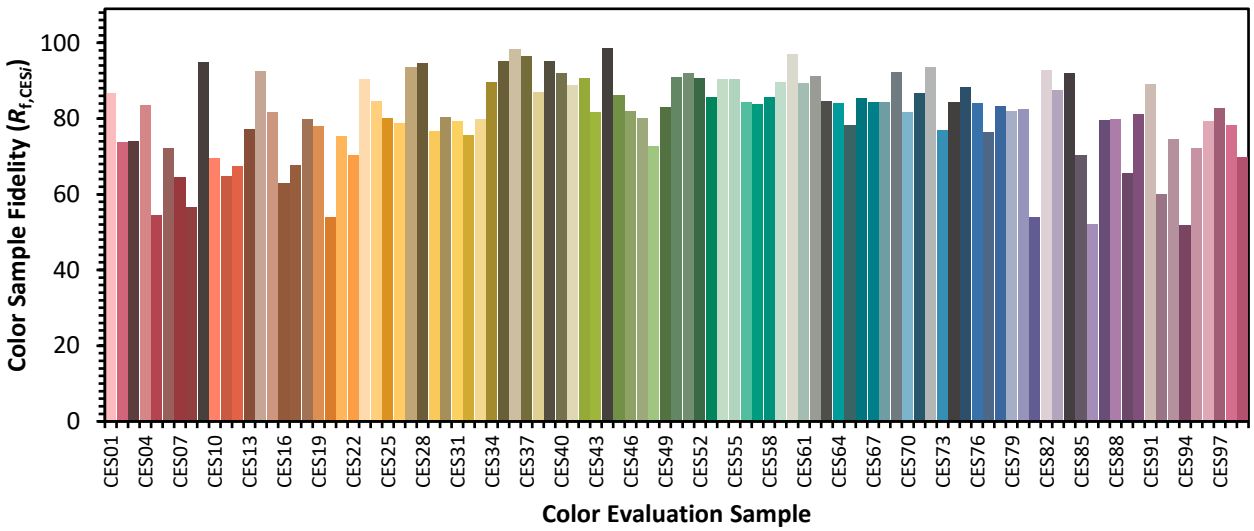


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

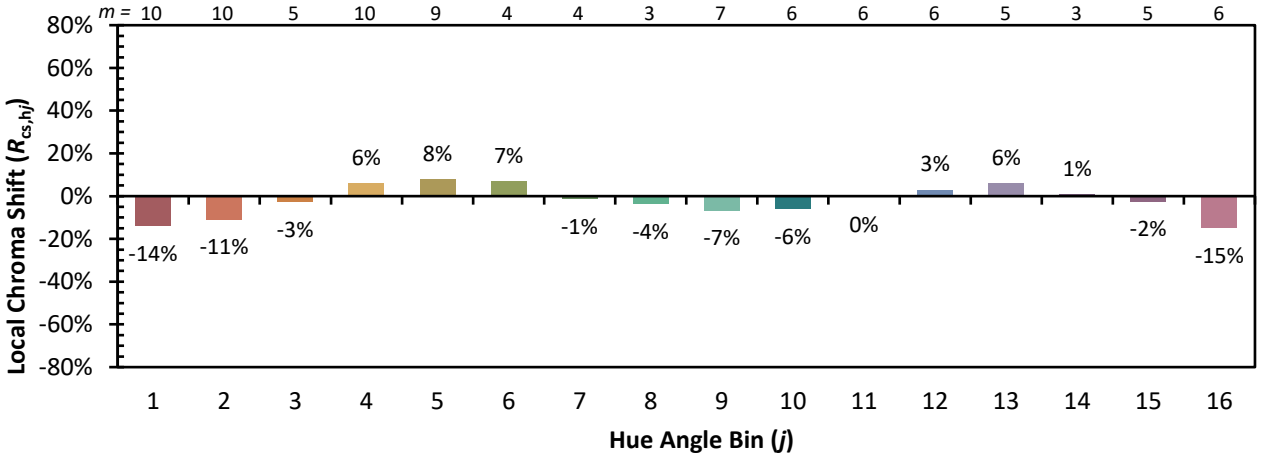
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 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	

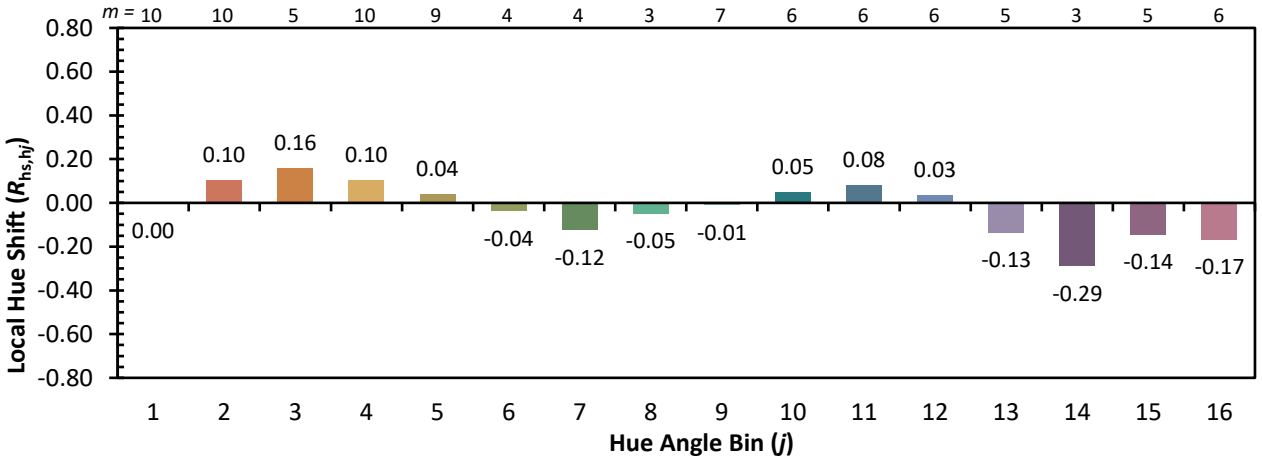


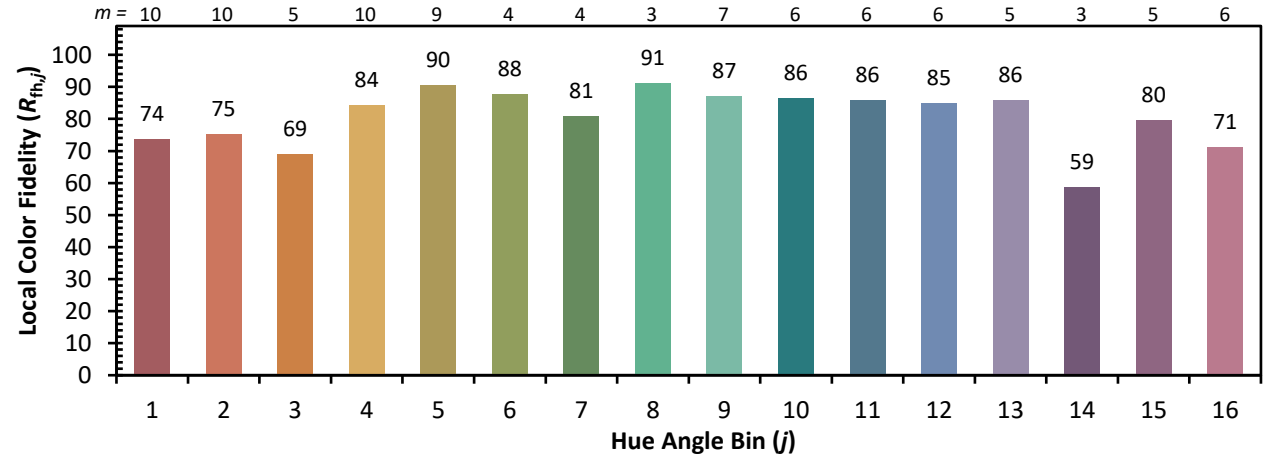
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Color Rendition by Hue-Angle Bin



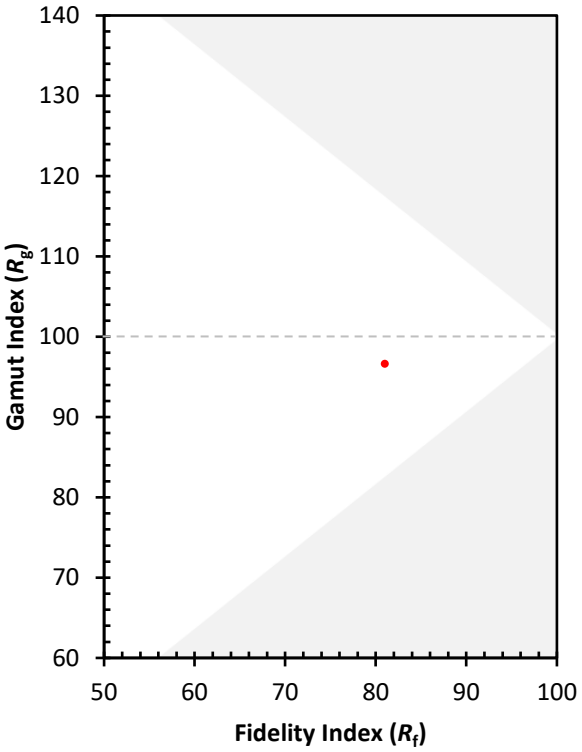


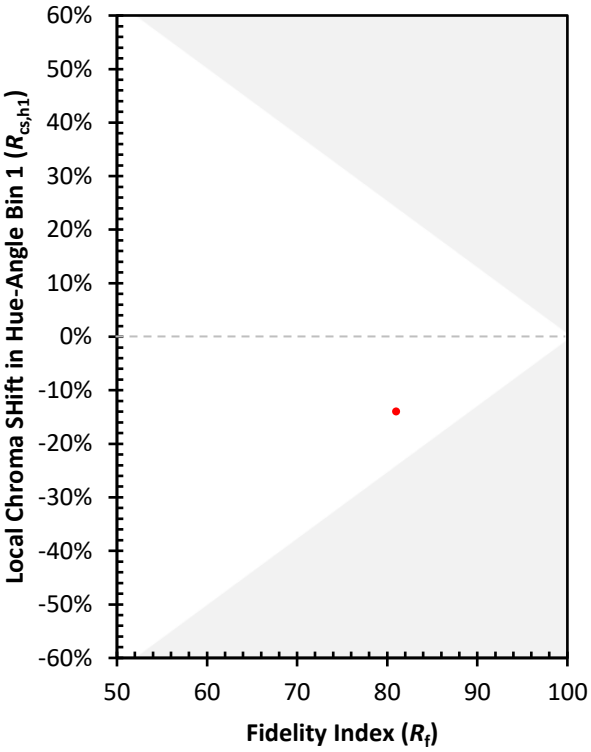


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Measure Comparisons





(END OF REPORT)