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: P1046594

Luminaire Tested: **FFX-CLB-30-722-U-FR-T3-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:	P1046594
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-722-U-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3641.4 lumens
Efficiency:	N/A
Efficacy:	119.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U3 - G2

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

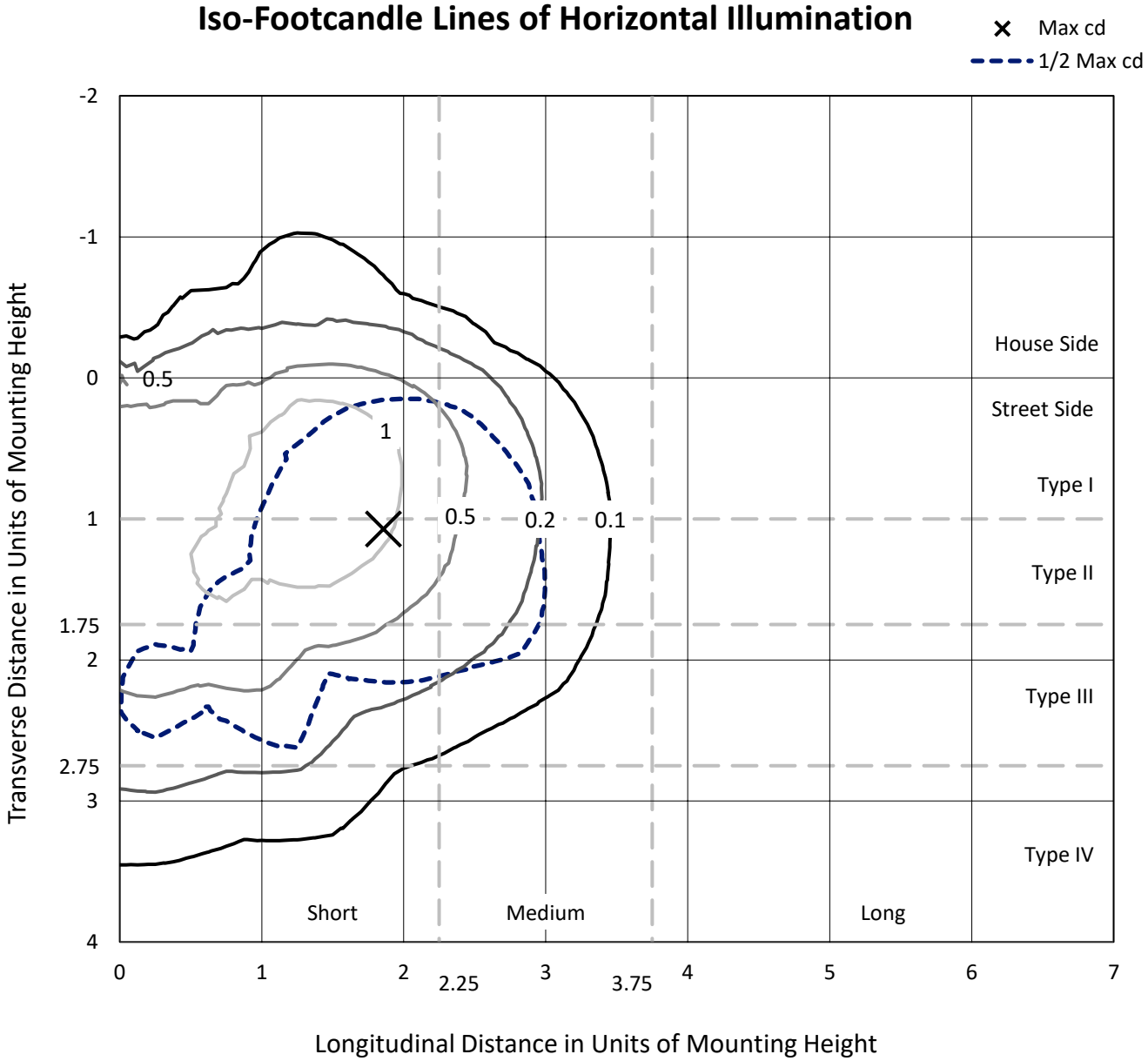


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Iso-Footcandle Lines of Horizontal Illumination



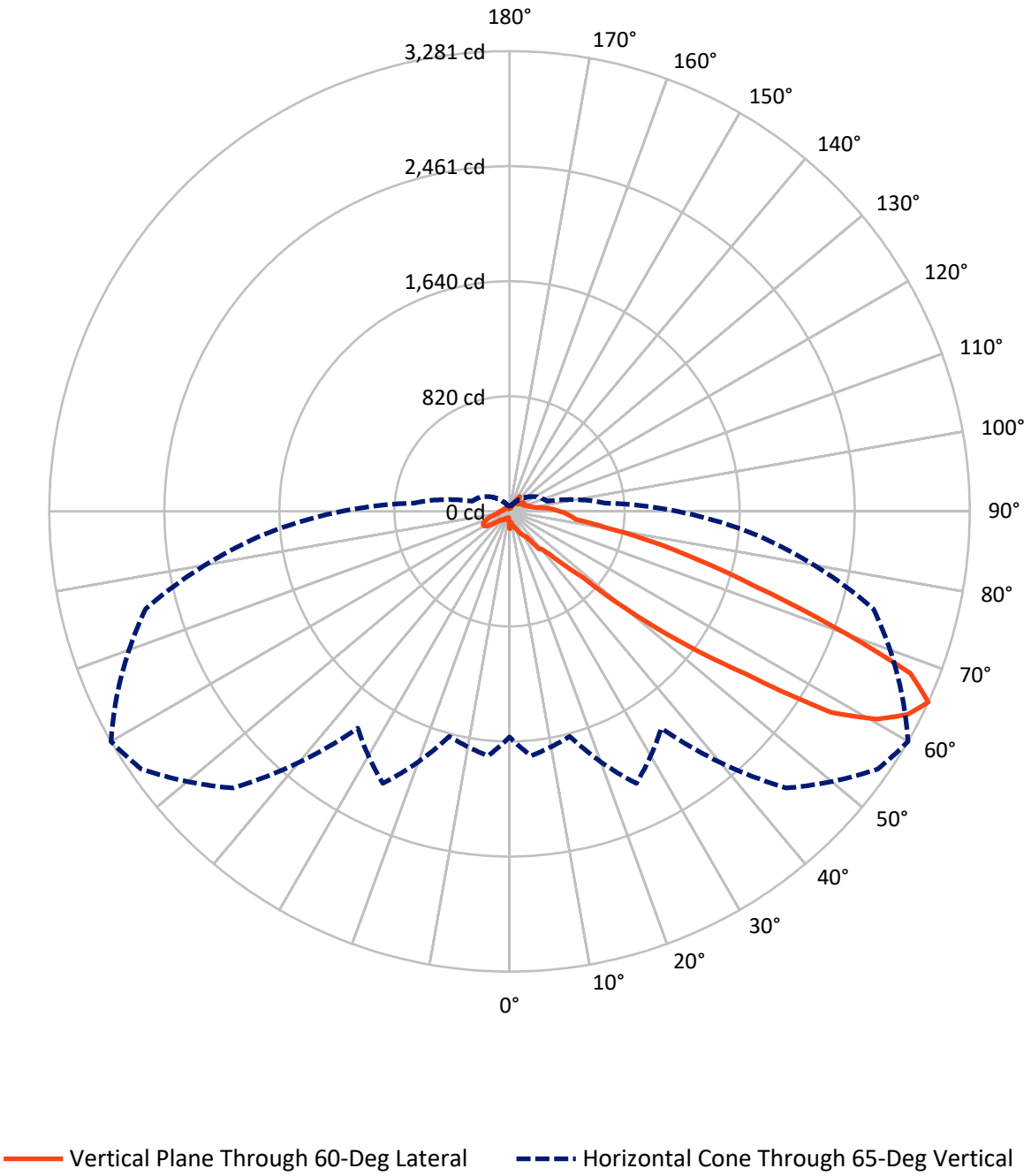
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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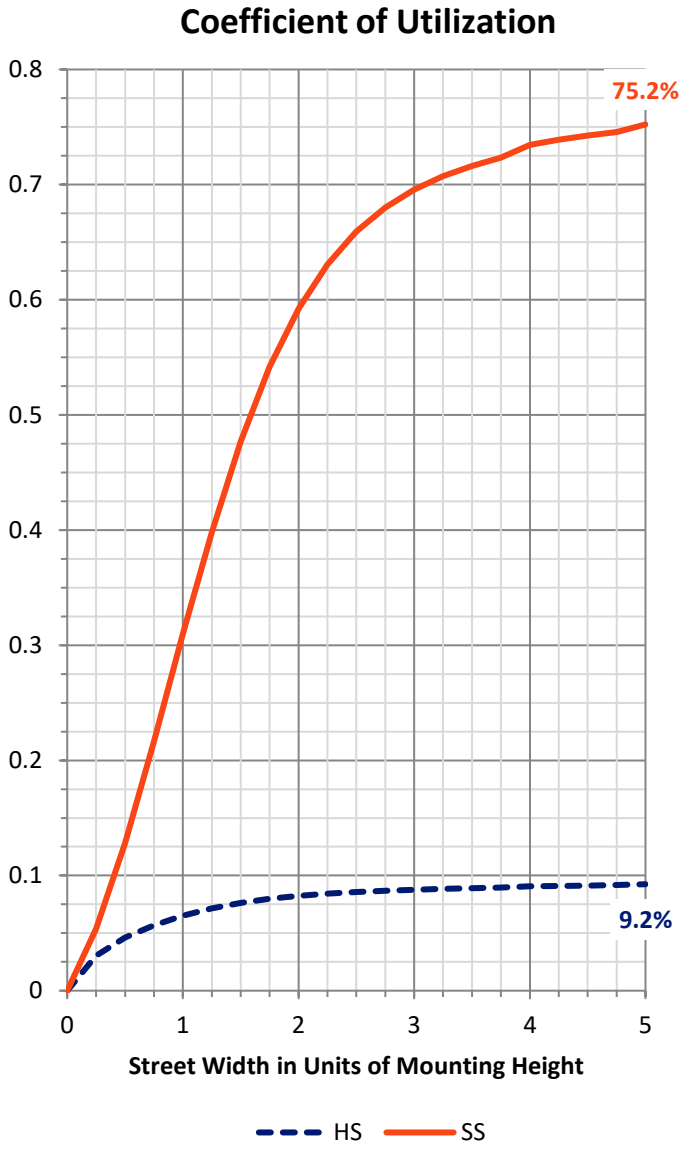
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	353.1	113.9	467.0
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	2837.6	336.8	3174.4
	% Fixture	77.9	9.2	87.2
Total	Lumens	3190.6	450.8	3641.4
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.2
10°-20°	23.3	0.6
20°-30°	49.8	1.4
30°-40°	102.3	2.8
40°-50°	239.6	6.6
50°-60°	749.6	20.6
60°-70°	1173.7	32.2
70°-80°	620.9	17.1
80°-90°	224.8	6.2
90°-100°	135.6	3.7
100°-110°	84.9	2.3
110°-120°	68.6	1.9
120°-130°	57.3	1.6
130°-140°	41.7	1.1
140°-150°	38.3	1.1
150°-160°	16.0	0.4
160°-170°	6.4	0.2
170°-180°	2.1	0.1
0°-90°	3190.6	87.6
0°-180°	3641.4	100.0



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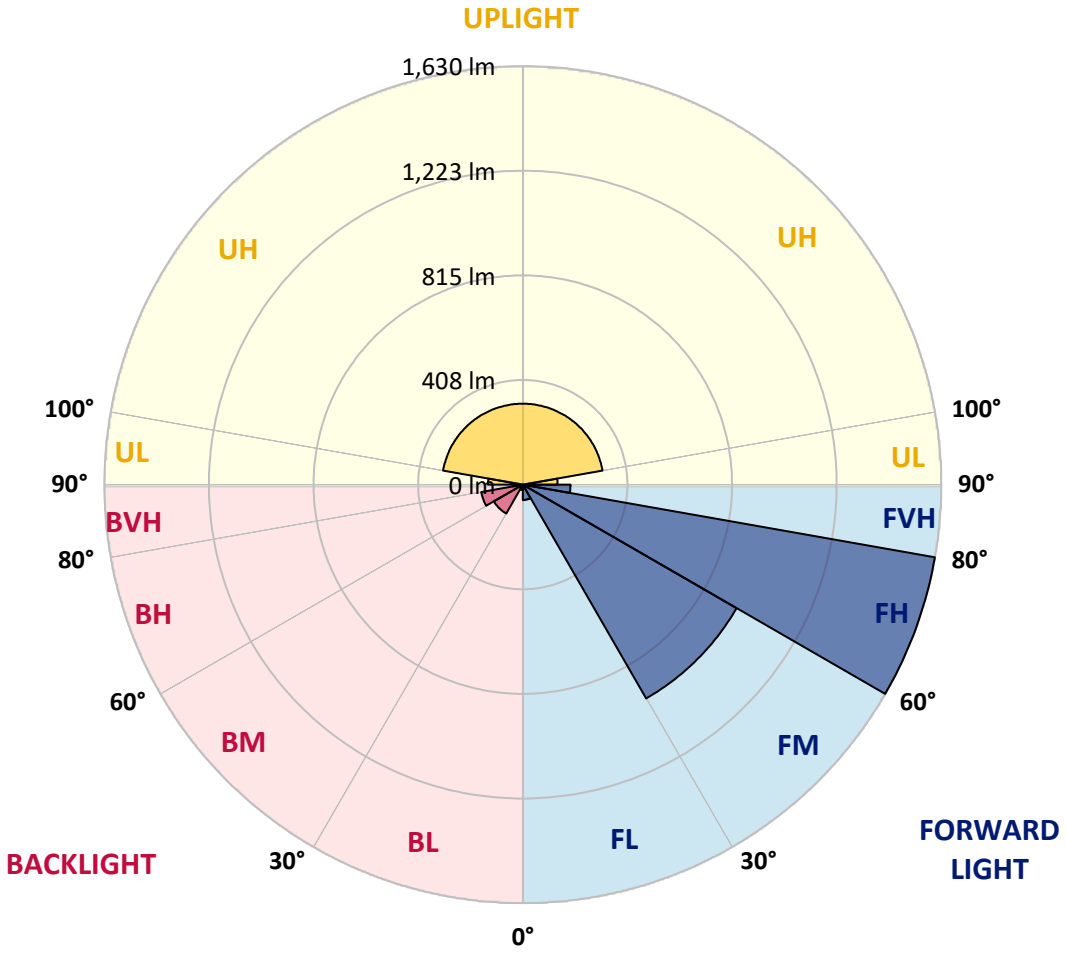
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	60.0	1.6			
FM	(30°-60°)	961.6	26.4			
FH	(60°-80°)	1630.2	44.8			G1/1800
FVH	(80°-90°)	185.8	5.1			G2/225
BL	(0°-30°)	19.8	0.5	B0/110		
BM	(30°-60°)	129.8	3.6	B0/220		
BH	(60°-80°)	164.4	4.5	B1/500		G1/500
BVH	(80°-90°)	39.0	1.1			G1/100
UL	(90°-100°)	135.6	3.7		U3/500	
UH	(100°-180°)	315.2	8.7		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6
2.5°	68.2	70.8	86.3	102.3	106.8	96.9	83.9	85.5	92.7	127.0	142.2
5°	79.9	80.7	79.4	81.2	92.4	106.5	98.3	88.7	75.9	54.9	54.3
7.5°	91.9	91.9	91.3	84.7	77.0	74.6	81.8	83.1	81.8	68.2	58.9
10°	100.1	100.1	99.9	100.4	100.9	98.3	86.6	82.0	77.2	71.4	68.7
12.5°	121.4	122.0	125.4	123.6	116.7	109.5	110.8	109.5	102.3	89.8	79.4
15°	148.6	149.7	150.2	143.3	132.1	118.8	110.3	108.1	106.8	99.6	89.2
17.5°	162.7	162.2	155.8	148.6	141.4	131.8	123.8	120.6	115.9	106.8	95.6
20°	161.1	161.1	154.7	153.1	153.7	147.8	137.7	133.7	128.4	119.8	104.4
22.5°	165.7	165.9	161.9	163.3	169.1	163.3	153.4	150.7	145.7	133.4	117.7
25°	183.0	183.0	178.4	176.6	181.6	179.5	173.9	170.7	163.5	148.6	120.9
27.5°	198.7	197.6	193.4	193.9	189.1	188.0	186.7	185.4	179.0	155.3	122.5
30°	210.9	210.9	207.2	209.6	199.5	201.1	196.3	200.0	191.8	164.3	128.6
32.5°	222.1	223.7	222.4	225.6	213.6	220.5	212.3	216.3	211.2	180.6	145.9
35°	247.9	249.8	255.9	263.9	249.3	256.5	243.4	249.0	244.0	217.3	179.2
37.5°	350.5	347.6	334.2	321.2	307.1	336.6	333.4	338.8	330.8	287.9	226.4
40°	352.6	351.0	348.4	340.1	313.5	342.8	344.1	353.7	377.7	308.9	244.8
42.5°	361.7	363.5	395.2	399.2	379.2	424.8	412.3	412.8	494.8	365.9	315.9
45°	418.4	418.4	428.5	433.6	427.7	558.5	556.6	540.6	644.0	456.5	371.5
47.5°	479.7	481.5	500.2	550.2	583.0	706.8	743.6	705.2	840.8	599.0	511.9
50°	658.9	662.6	720.7	764.6	826.1	1034.7	1215.5	1157.2	1370.0	913.8	771.3
52.5°	788.6	834.9	866.9	1032.3	1056.3	1376.6	1609.9	1590.0	1732.7	1264.8	936.1
55°	938.5	1010.7	1032.0	1288.5	1331.4	1776.4	2018.5	2053.9	2062.7	1635.0	1100.5
57.5°	1185.4	1297.3	1301.3	1572.4	1579.8	2239.3	2624.6	2702.7	2613.7	2065.9	1359.6
60°	1388.9	1519.9	1476.0	1845.1	1771.1	2613.7	2919.5	3007.9	2842.8	2434.2	1540.7
62.5°	1514.9	1641.4	1583.6	2036.9	1886.1	2774.3	3095.5	3186.3	3004.7	2630.0	1680.0
65°	1608.9	1749.2	1660.3	2139.1	1885.9	2788.7	3204.2	3280.9	3086.5	2686.2	1721.0
67.5°	1610.7	1736.7	1625.7	2102.6	1760.4	2561.0	3034.5	3083.0	2867.3	2486.7	1599.0
70°	1408.1	1498.6	1375.3	1774.5	1420.1	1943.7	2369.8	2427.3	2210.2	1911.7	1239.0
72.5°	1178.2	1213.6	1091.4	1419.3	1112.2	1470.9	1811.6	1833.1	1718.3	1432.0	957.7
75°	925.2	911.6	848.2	1058.1	845.6	1042.1	1422.7	1401.9	1338.8	1053.9	730.8
77.5°	617.3	592.0	595.2	726.0	590.7	689.5	1036.0	1036.8	1014.7	781.4	521.2
80°	376.6	377.4	367.0	460.5	389.9	458.3	714.0	690.6	691.1	515.3	364.9
82.5°	294.6	299.4	286.3	331.8	307.1	364.6	466.6	479.7	465.5	378.4	268.7
85°	289.2	293.5	279.9	308.1	291.9	348.4	438.9	437.8	430.4	351.0	254.1
87.5°	265.0	270.1	259.9	279.6	267.1	322.5	404.0	398.7	391.5	330.2	242.4
90°	223.7	233.0	226.1	250.6	233.3	277.5	351.3	349.2	345.4	291.9	215.7
92.5°	203.5	205.3	200.3	222.4	203.2	243.2	311.9	305.2	297.0	253.3	183.8
95°	182.2	181.4	176.6	194.4	177.4	203.5	265.0	254.9	250.6	213.9	153.4
97.5°	145.9	146.2	143.8	156.1	143.8	162.5	198.9	195.2	186.7	159.8	117.4
100°	127.8	128.6	127.0	136.6	126.2	138.2	165.7	164.9	157.9	136.4	102.5
102.5°	120.9	121.2	123.3	129.2	119.3	128.1	151.0	151.3	146.7	127.0	96.4
105°	116.1	115.9	117.4	122.2	113.7	120.1	141.2	141.2	134.8	119.8	91.3
107.5°	112.4	111.9	114.5	118.5	112.7	114.5	130.8	131.8	125.7	111.6	86.8
110°	108.1	107.9	112.4	115.3	109.7	110.0	124.1	123.3	117.7	108.7	85.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	109.7	111.3	116.4	108.1	99.9	100.4	111.3	*112.7*	108.7	99.3	81.2
115°	108.4	110.0	116.7	104.9	92.7	95.9	104.9	*106.0*	100.1	92.4	76.4
117.5°	103.6	104.1	108.1	105.2	92.4	96.1	100.7	*102.5*	98.3	92.4	77.2
120°	122.5	118.5	118.5	114.0	99.6	106.3	114.8	*116.4*	112.4	101.5	77.0
122.5°	112.7	111.3	111.6	105.7	98.5	104.1	114.3	*116.9*	113.5	102.5	77.0
125°	88.7	89.0	87.6	89.5	86.6	88.4	93.7	*98.0*	94.8	89.0	73.2
127.5°	80.7	80.4	78.8	86.8	77.8	81.5	86.6	*89.0*	85.8	79.1	66.3
130°	78.6	78.6	83.1	91.3	86.0	84.4	82.6	*85.0*	84.4	80.2	66.3
132.5°	73.5	73.8	80.4	91.1	89.0	81.5	74.8	*76.2*	78.6	79.6	70.0
135°	73.5	72.7	70.6	73.0	71.6	73.5	71.6	*73.5*	74.0	73.5	61.3
137.5°	78.3	77.8	72.4	69.2	69.5	75.4	75.6	*76.4*	75.6	71.4	59.4
140°	76.7	74.8	71.1	69.8	70.0	76.2	78.6	*79.1*	78.3	70.0	55.9
142.5°	74.0	74.0	75.1	76.7	79.1	107.6	100.1	*107.1*	107.3	98.8	57.5
145°	106.3	107.3	104.1	100.7	109.2	129.4	121.7	*129.2*	134.2	124.9	79.4
147.5°	95.9	97.5	95.6	92.7	103.9	104.1	99.3	*100.1*	101.5	103.6	80.2
150°	67.9	66.0	69.0	66.8	78.0	77.5	70.8	*72.4*	75.4	75.6	63.9
152.5°	50.3	49.5	49.0	48.7	56.2	51.7	49.3	*48.5*	49.0	48.7	45.8
155°	44.5	44.5	44.2	45.5	49.5	46.3	43.9	*44.2*	42.9	42.1	40.5
157.5°	34.6	33.8	34.6	37.0	38.6	35.7	34.9	*34.4*	34.1	32.8	33.3
160°	28.5	28.5	29.0	30.9	32.0	29.8	28.2	*27.7*	27.7	27.2	29.0
162.5°	24.2	24.2	24.8	25.3	25.8	24.8	24.2	*24.2*	24.0	24.0	25.8
165°	20.2	20.2	20.5	21.6	21.8	21.3	21.0	*21.3*	21.3	22.4	24.0
167.5°	18.6	18.6	18.9	19.4	19.7	19.4	20.2	*21.0*	21.8	22.9	23.4
170°	17.8	17.8	18.1	18.4	18.9	19.4	21.0	*21.6*	21.8	21.6	21.6
172.5°	18.4	18.4	18.4	18.9	19.4	20.8	22.1	*22.1*	21.6	21.0	21.0
175°	18.6	18.4	18.6	19.2	20.0	20.8	21.3	*21.8*	21.8	21.6	21.6
177.5°	18.4	18.4	18.6	18.9	18.9	18.9	19.2	*19.4*	19.4	19.7	20.0
180°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	*18.1*	18.1	18.1	18.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6
2.5°	139.3	131.6	97.5	64.7	79.4	115.9	135.0	126.5	94.3	54.3	46.1
5°	57.0	63.9	74.6	71.4	64.2	52.7	39.7	39.4	54.6	66.3	67.4
7.5°	54.9	50.3	47.7	52.7	49.3	34.1	28.8	24.0	25.6	37.6	36.0
10°	67.6	66.0	61.5	50.3	37.0	30.6	28.8	29.3	31.4	28.2	28.0
12.5°	75.4	71.4	61.5	58.3	49.5	35.2	29.0	26.9	28.8	36.0	38.9
15°	82.6	76.7	64.5	54.1	44.5	36.5	31.2	27.2	24.2	21.0	20.8
17.5°	89.0	81.5	67.9	56.2	44.2	36.5	30.1	23.7	20.5	19.4	19.4
20°	96.7	89.8	72.4	58.6	44.5	35.7	29.0	23.4	20.5	19.4	19.4
22.5°	107.1	95.6	77.2	59.7	45.0	35.4	28.5	24.0	21.3	19.7	19.7
25°	110.0	101.2	80.4	63.1	47.1	36.8	29.8	24.8	21.8	20.5	20.2
27.5°	112.1	105.5	86.6	66.0	49.5	39.4	32.0	25.8	22.4	21.0	20.8
30°	120.4	114.5	93.2	70.3	52.7	42.1	33.8	27.4	23.4	21.3	20.8
32.5°	138.0	129.7	103.1	74.6	56.7	45.0	36.2	29.0	24.5	21.8	21.3
35°	171.5	164.9	129.2	83.4	61.0	48.7	39.1	31.2	25.8	22.6	22.4
37.5°	210.4	200.0	156.9	96.9	63.9	51.9	42.1	33.3	27.2	24.0	23.4
40°	217.1	187.5	139.0	88.4	64.5	53.5	44.7	35.7	28.8	25.0	24.2
42.5°	272.2	230.1	161.1	91.3	65.8	53.5	45.3	37.3	30.4	25.8	25.3
45°	287.9	229.3	160.3	102.0	72.2	55.1	45.5	38.1	31.7	27.2	26.4
47.5°	367.0	281.2	162.7	108.4	78.8	60.7	47.4	38.6	32.0	28.0	27.7
50°	524.7	376.1	195.7	130.8	94.5	70.8	53.3	40.5	32.5	28.8	28.5
52.5°	648.0	446.6	210.1	156.6	120.4	90.0	63.7	45.3	33.6	29.0	28.5
55°	770.2	532.7	236.8	184.8	143.3	108.4	79.1	53.0	36.2	29.6	29.0
57.5°	956.6	639.4	269.8	212.5	169.9	125.7	88.4	59.9	39.4	30.1	29.3
60°	1069.8	677.3	273.3	226.6	185.1	138.0	91.6	62.6	43.4	32.2	30.9
62.5°	1171.6	711.4	275.6	233.0	187.8	139.3	91.9	60.5	44.2	35.4	33.8
65°	*1197.9*	*683.7*	*278.0*	*235.2*	*183.0*	*131.6*	*88.4*	*58.3*	*42.1*	*38.4*	*38.1*
67.5°	1138.3	613.1	261.5	227.2	170.2	118.2	79.6	55.4	41.0	37.3	38.1
70°	886.9	486.8	239.7	209.3	147.0	99.9	70.8	51.7	40.5	35.4	34.6
72.5°	698.8	414.1	242.1	199.5	124.1	88.4	62.6	47.1	38.4	34.6	34.1
75°	544.4	347.0	233.0	171.8	100.7	75.4	54.9	42.1	35.7	33.3	33.0
77.5°	399.2	275.4	192.3	132.4	83.1	62.9	47.9	38.6	33.8	31.7	31.4
80°	261.8	194.7	134.0	105.7	71.6	56.7	43.7	36.2	32.5	30.6	30.4
82.5°	222.6	172.8	119.0	97.2	66.3	54.6	42.9	35.4	32.2	30.1	29.8
85°	214.7	177.1	121.7	100.7	63.1	52.2	41.5	34.9	31.4	29.6	29.3
87.5°	201.6	160.3	117.7	90.3	58.3	47.7	38.9	33.6	30.1	28.5	28.0
90°	179.5	137.2	101.2	77.5	55.4	44.7	36.8	32.0	29.3	27.7	27.2
92.5°	144.9	104.1	79.6	68.4	54.1	44.5	36.5	32.0	29.3	27.7	27.2
95°	121.7	89.2	71.4	62.6	50.3	42.1	34.9	30.9	28.5	26.9	26.9
97.5°	96.4	74.6	63.7	56.2	45.3	38.4	33.0	29.6	27.4	25.8	25.8
100°	85.5	69.2	60.5	52.7	42.9	36.2	32.2	28.8	26.9	25.0	25.0
102.5°	81.2	67.1	59.7	50.1	41.0	34.9	30.9	27.7	26.1	24.2	24.2
105°	78.6	66.3	59.1	48.7	39.1	33.3	29.6	26.4	25.0	23.7	23.4
107.5°	75.9	65.2	59.9	47.9	37.6	32.2	29.6	26.1	24.5	23.4	23.4
110°	74.6	65.8	59.7	47.1	37.0	32.0	29.3	26.4	25.0	24.0	23.7

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

Scaled Data Report

REPORT NUMBER: P1046594
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	71.1	62.9	57.0	44.7	36.2	31.2	28.2	26.1	24.2	23.2	22.9
115°	67.6	57.8	52.2	42.6	34.4	30.1	27.4	25.3	23.4	22.6	22.6
117.5°	69.0	56.5	47.9	41.8	33.8	29.3	26.9	24.8	23.2	22.6	22.4
120°	68.2	59.4	53.8	44.7	33.6	28.5	26.4	24.2	22.9	22.6	22.6
122.5°	65.2	64.2	59.1	45.5	32.5	28.8	26.9	25.0	23.7	22.9	22.9
125°	62.9	62.3	55.1	41.0	33.3	29.8	28.2	26.4	25.6	24.8	24.5
127.5°	58.1	52.2	45.8	39.4	33.8	30.4	28.8	27.7	26.9	25.6	25.3
130°	58.3	53.5	47.1	39.7	32.5	29.8	29.0	28.0	26.6	24.5	24.2
132.5°	63.4	58.3	46.9	36.8	31.2	29.8	29.3	28.0	25.0	22.6	22.4
135°	52.7	49.3	41.5	35.2	31.7	30.9	30.6	27.7	23.4	21.8	21.6
137.5°	51.4	46.3	39.9	35.4	33.0	31.4	30.4	26.6	21.8	20.2	19.7
140°	48.5	43.7	39.1	36.0	32.0	26.6	24.2	22.4	20.2	18.9	18.6
142.5°	48.5	43.9	37.0	31.7	27.7	24.8	23.4	21.8	19.4	17.6	17.0
145°	57.3	51.9	44.7	40.2	36.0	31.4	26.9	22.1	18.1	15.7	15.4
147.5°	65.0	58.6	53.0	45.5	38.6	31.2	24.8	19.4	16.5	15.4	15.4
150°	53.3	47.4	44.5	38.1	32.0	25.6	21.0	18.1	16.5	16.0	16.0
152.5°	39.9	33.6	31.4	28.0	24.2	21.0	18.9	17.3	16.8	16.5	16.5
155°	37.3	32.0	29.3	26.1	22.4	19.7	18.4	17.6	17.0	16.8	16.8
157.5°	32.5	29.6	26.1	23.7	21.0	19.2	18.4	17.8	17.3	17.0	17.0
160°	29.0	26.9	23.7	21.8	20.0	19.2	19.2	18.9	18.1	17.8	17.8
162.5°	26.1	25.3	22.4	20.8	20.0	20.2	21.6	21.3	20.0	18.9	18.6
165°	24.2	23.4	21.3	20.5	20.0	21.0	23.7	23.2	21.0	19.7	19.7
167.5°	23.2	22.6	21.0	20.2	20.5	22.6	25.0	25.3	23.4	21.6	21.3
170°	21.3	21.3	21.0	21.3	21.3	22.4	23.7	24.5	24.5	25.0	24.8
172.5°	21.0	21.3	22.1	22.1	21.8	22.1	23.2	24.5	25.3	26.1	26.4
175°	21.6	21.8	22.4	22.6	22.6	23.2	24.8	25.8	26.4	26.1	26.1
177.5°	20.0	20.2	20.5	21.6	22.1	22.6	24.2	24.8	25.3	25.8	25.8
180°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1

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

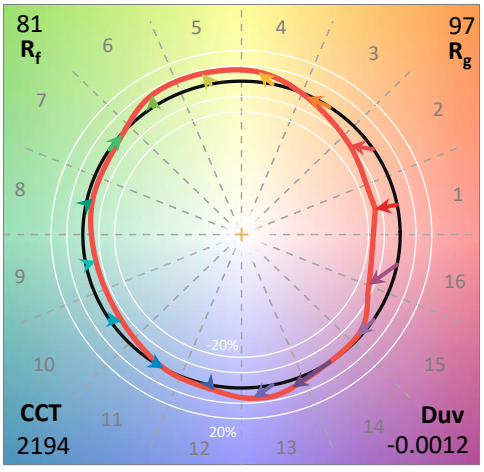
Test Information

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

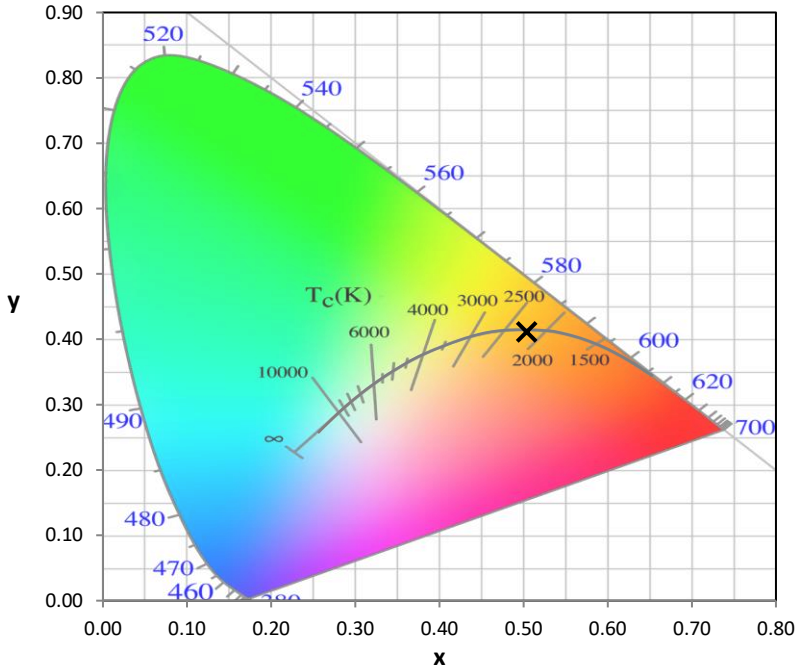
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

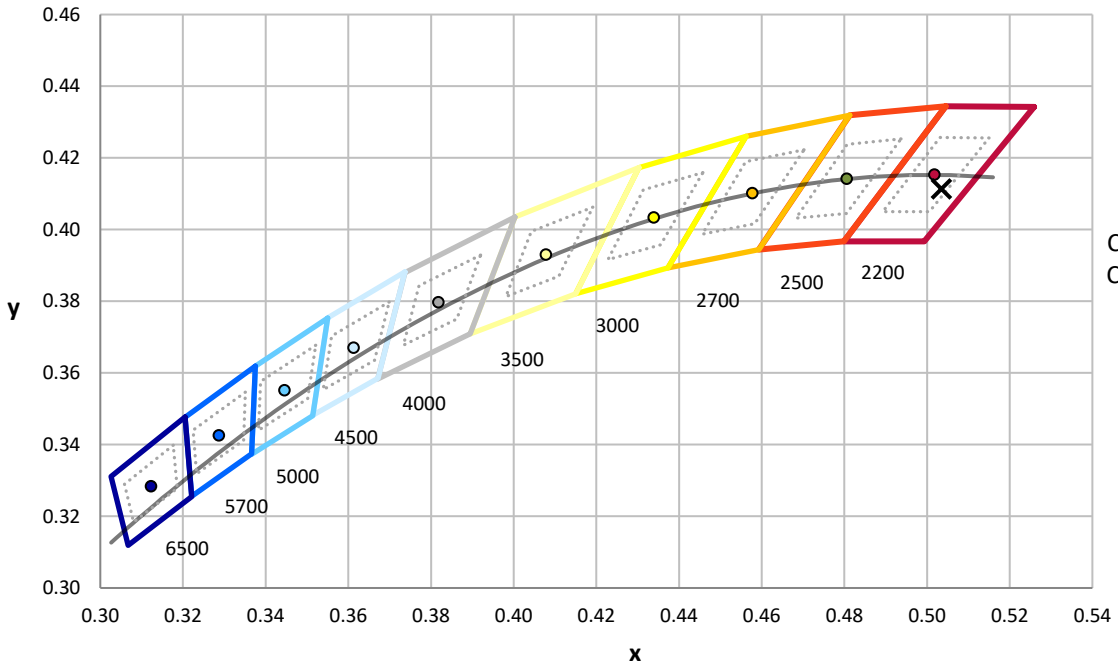
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

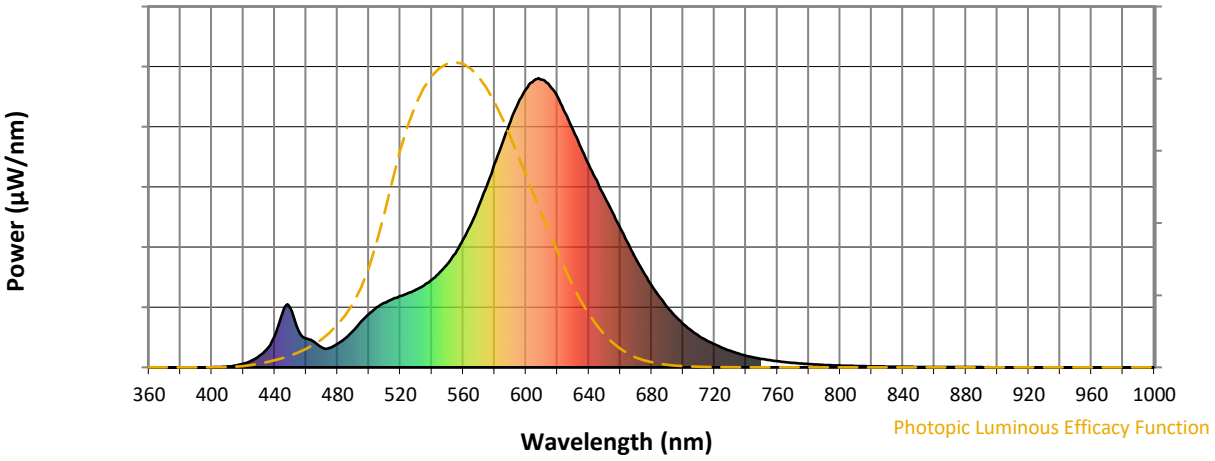


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

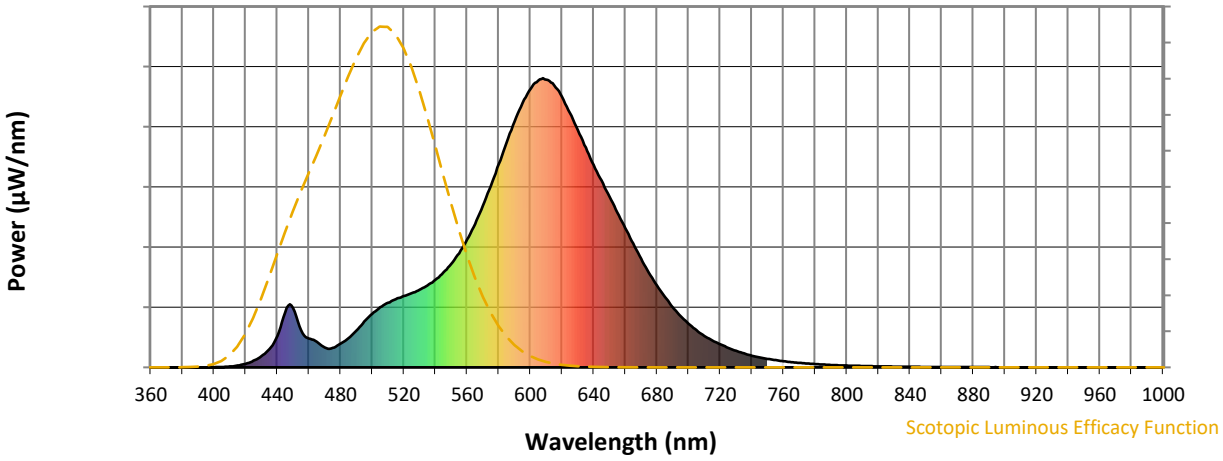


Photopic Lumens: NR

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

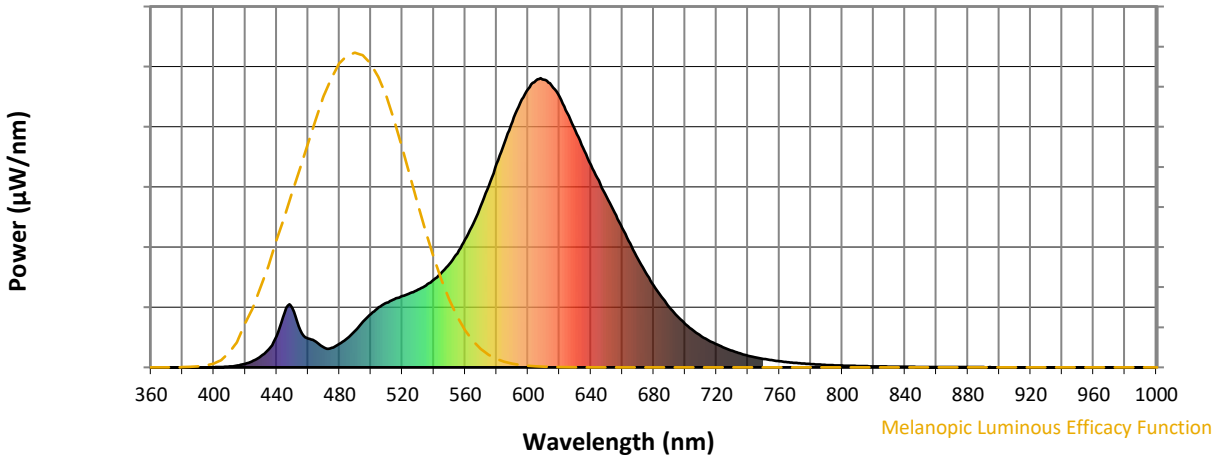


Scotopic Lumens: NR **S/P: 0.96**

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			

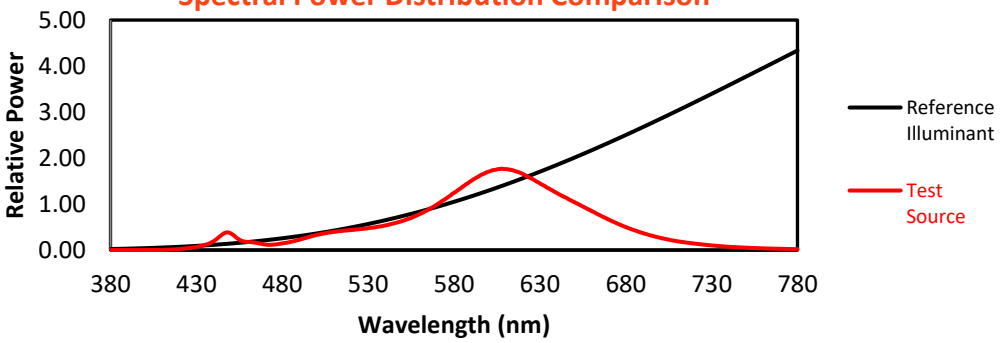
REPORT NUMBER: SP1-2501-332-7

TM-30-18

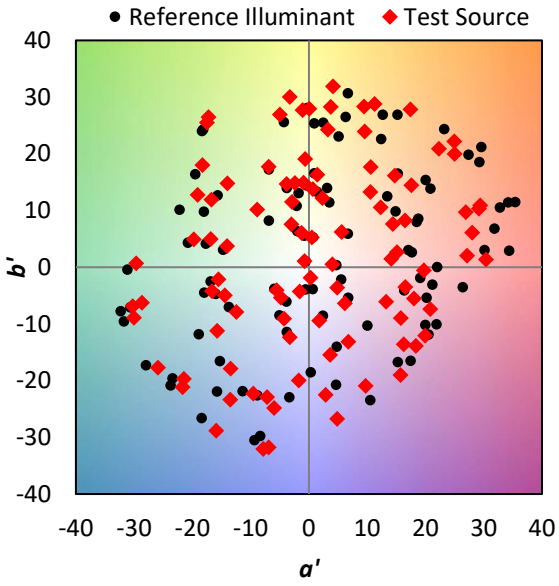
Summary

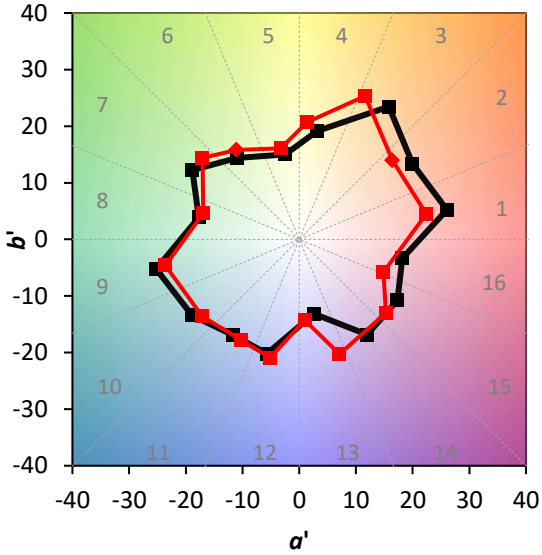
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

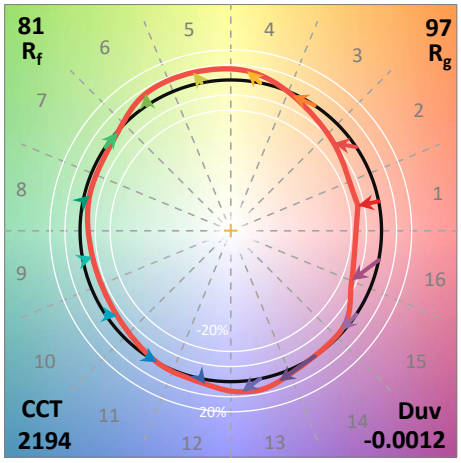
Spectral Power Distribution Comparison

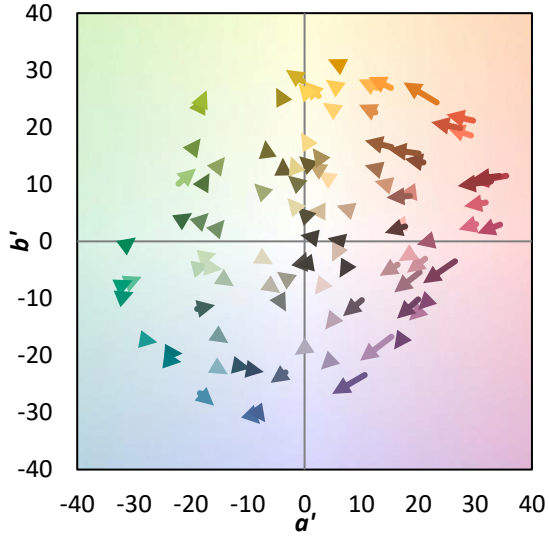


Color Vector Graphics







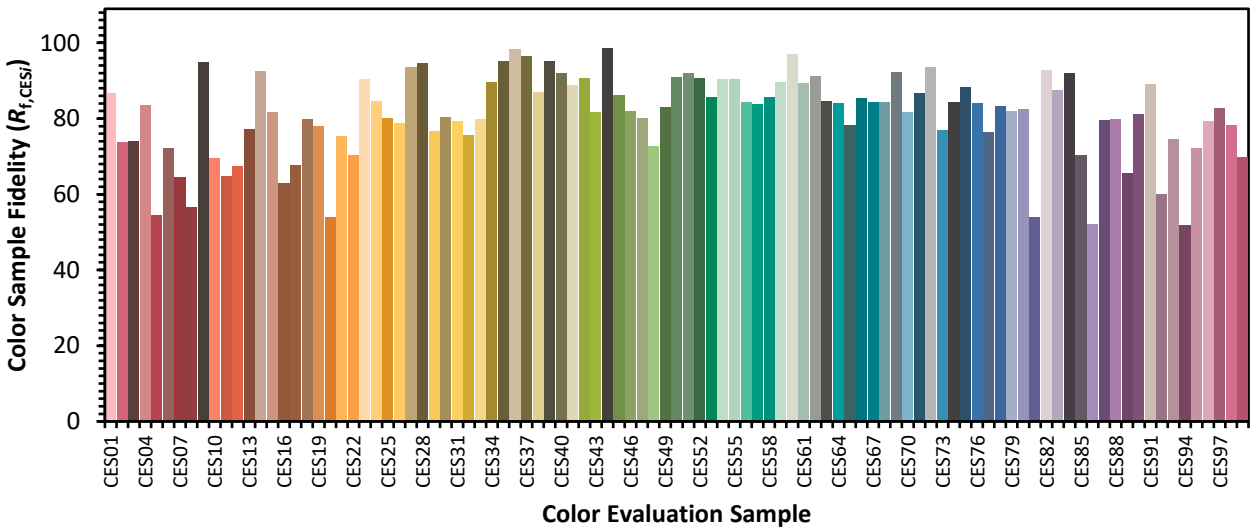


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

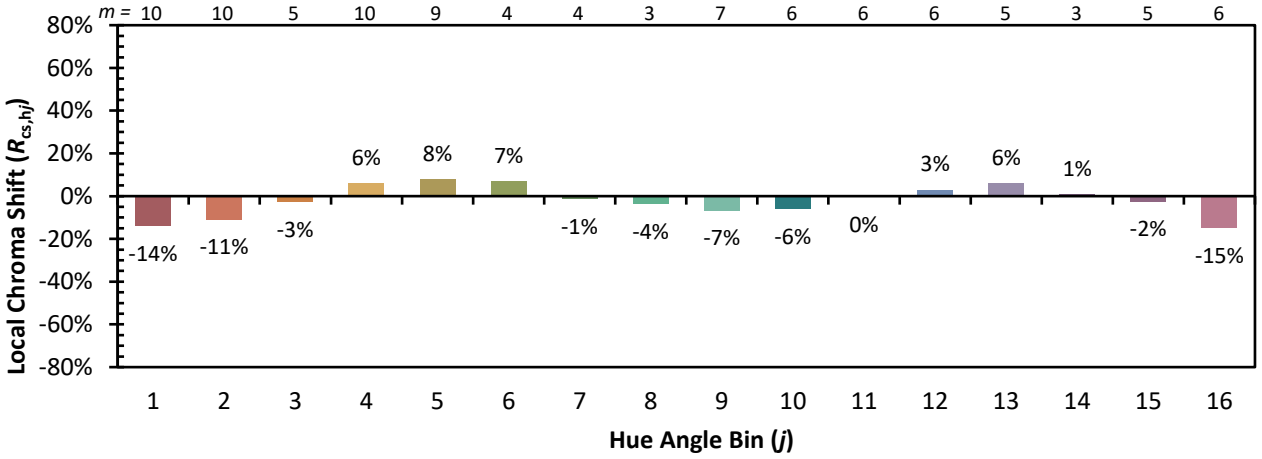
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57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

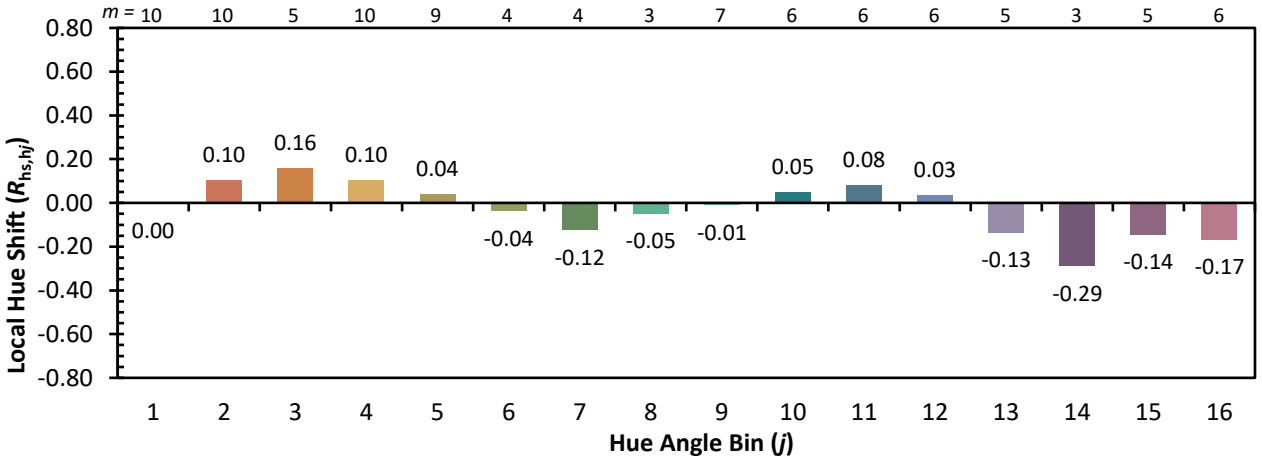


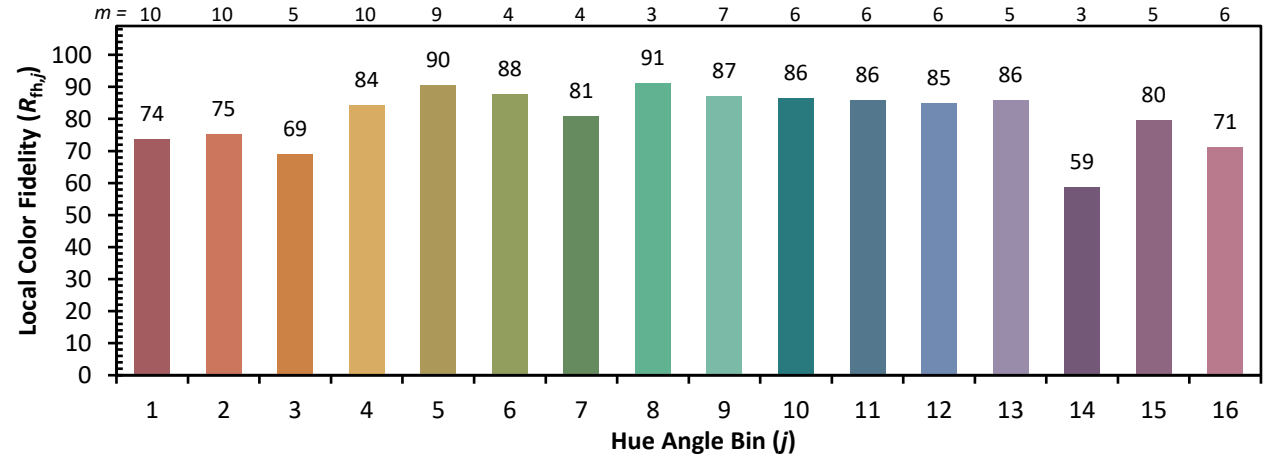
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Color Rendition by Hue-Angle Bin



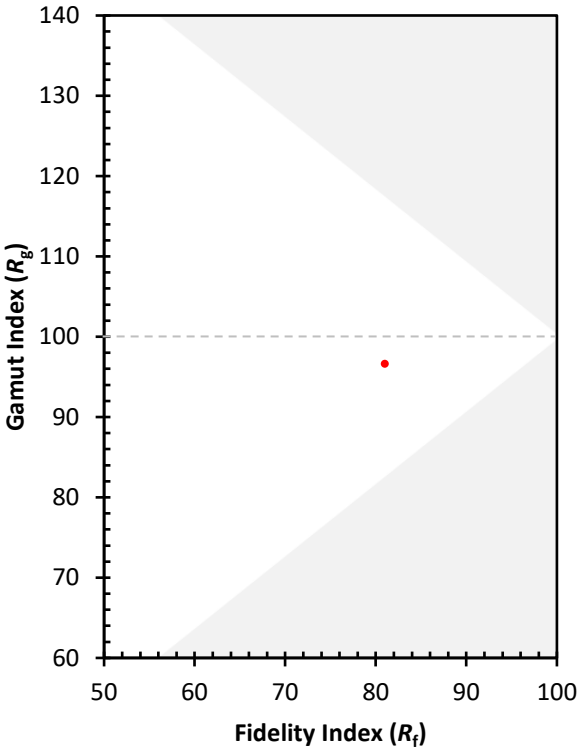


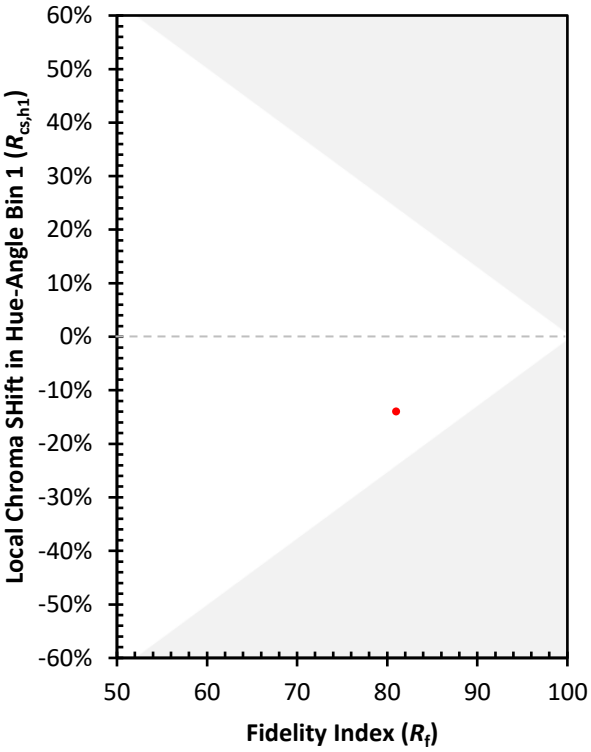


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Measure Comparisons





(END OF REPORT)