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: P1045737

Luminaire Tested: **FFX-CLB-50-722-U-FR-T5-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:	P1045737
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-722-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4361.9 lumens
Efficiency:	N/A
Efficacy:	86.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U3 - G2

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

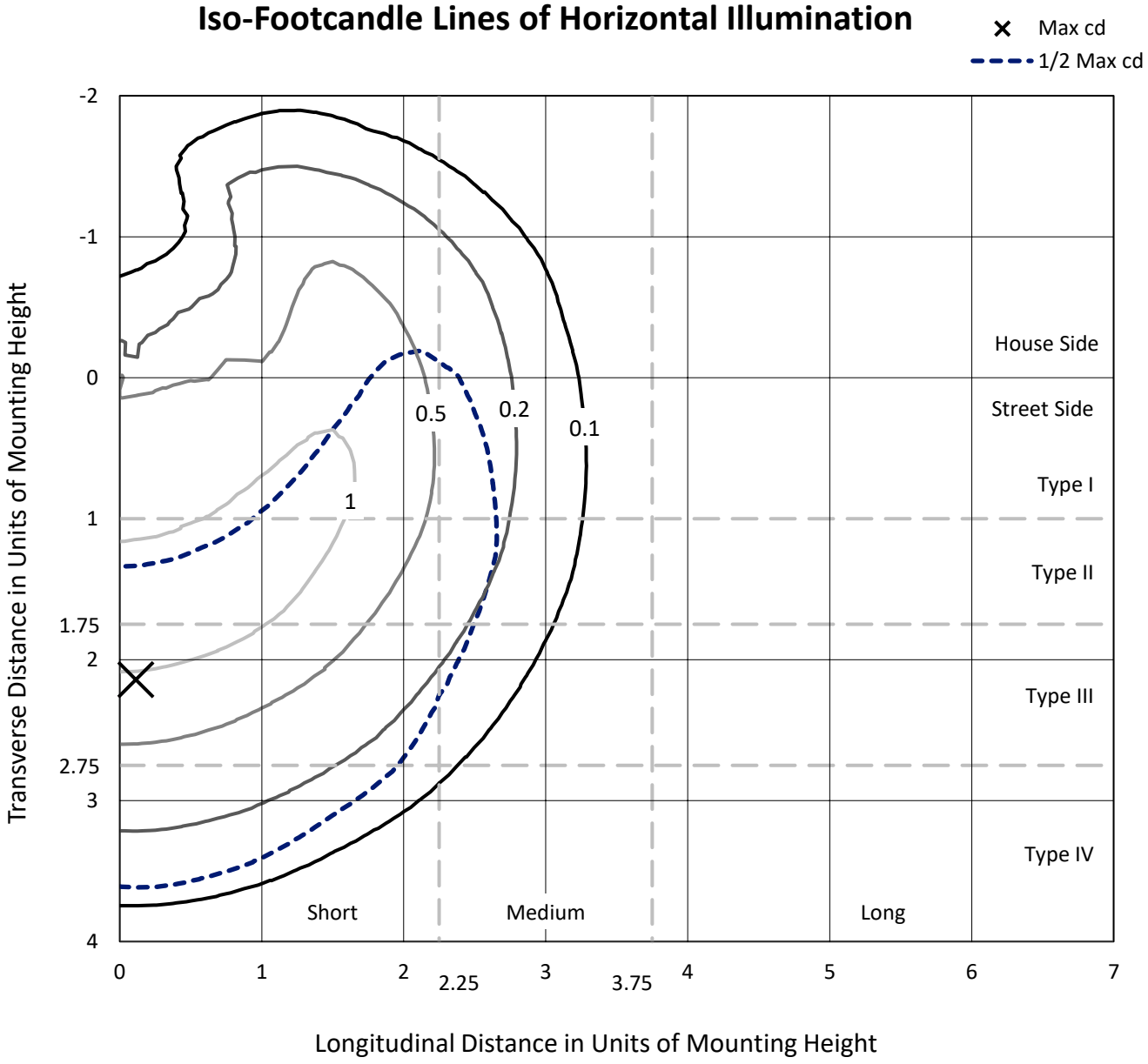


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Iso-Footcandle Lines of Horizontal Illumination



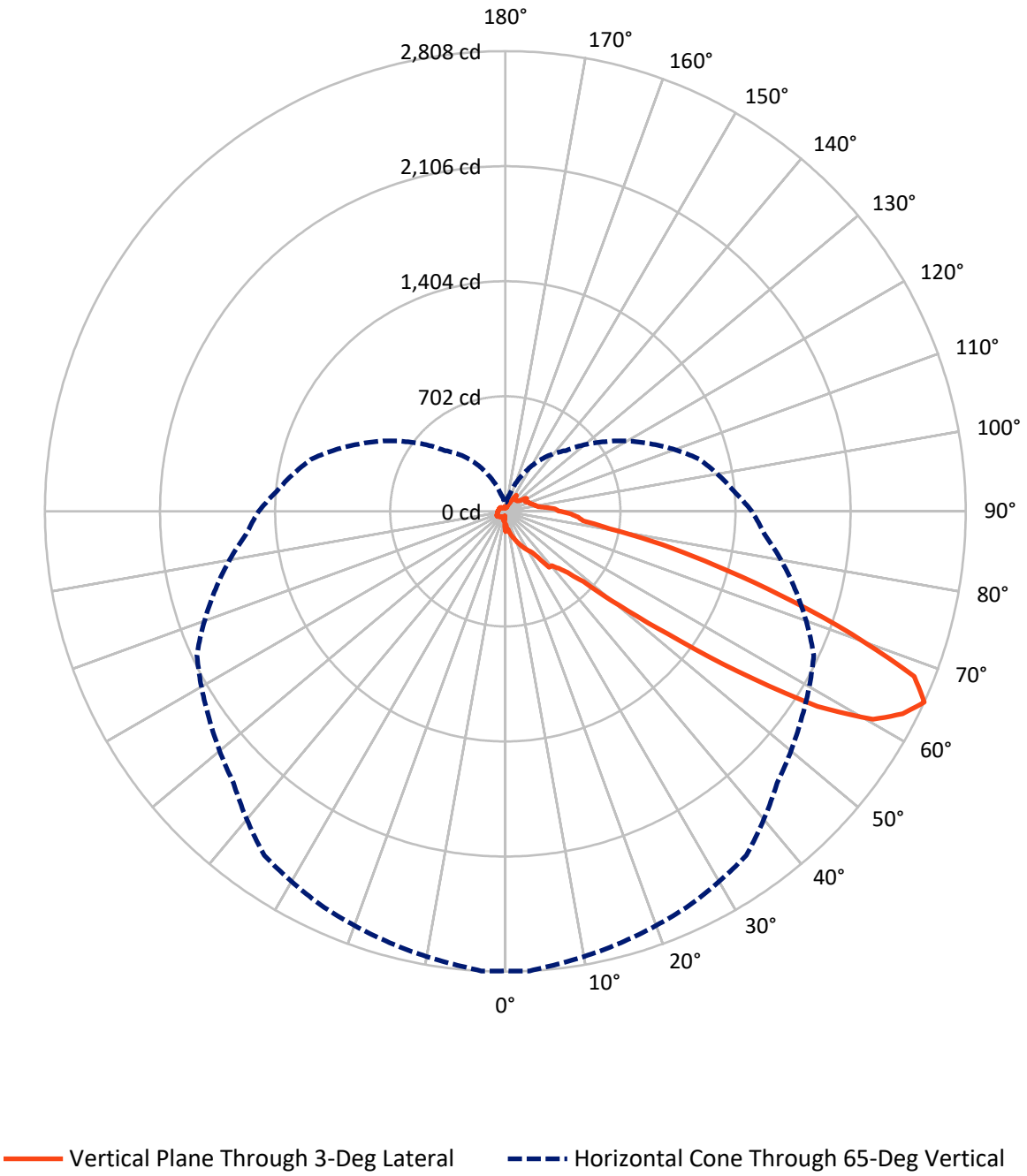
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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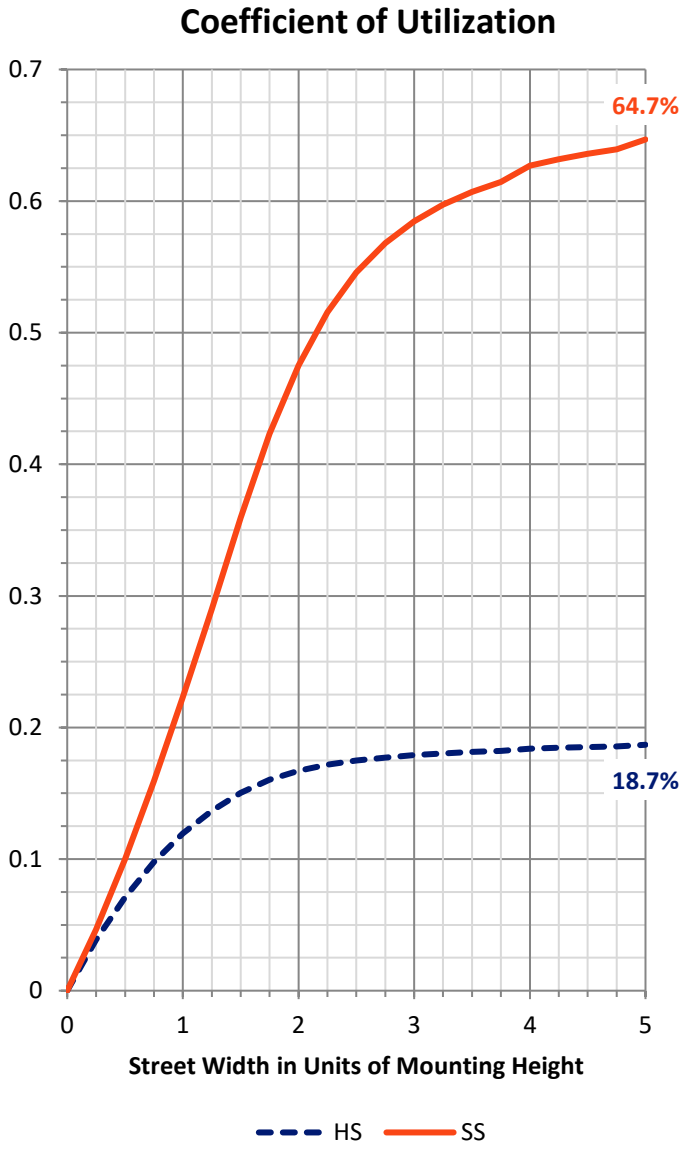
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	843.9	183.5	1027.4
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	2942.7	391.8	3334.5
	% Fixture	67.5	9.0	76.4
Total	Lumens	3786.6	575.3	4361.9
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.2
10°-20°	29.7	0.7
20°-30°	66.3	1.5
30°-40°	134.0	3.1
40°-50°	269.2	6.2
50°-60°	863.9	19.8
60°-70°	1378.0	31.6
70°-80°	749.6	17.2
80°-90°	288.0	6.6
90°-100°	171.7	3.9
100°-110°	113.9	2.6
110°-120°	90.8	2.1
120°-130°	75.7	1.7
130°-140°	52.1	1.2
140°-150°	42.1	1.0
150°-160°	18.8	0.4
160°-170°	7.6	0.2
170°-180°	2.6	0.1
0°-90°	3786.6	86.8
0°-180°	4361.9	100.0



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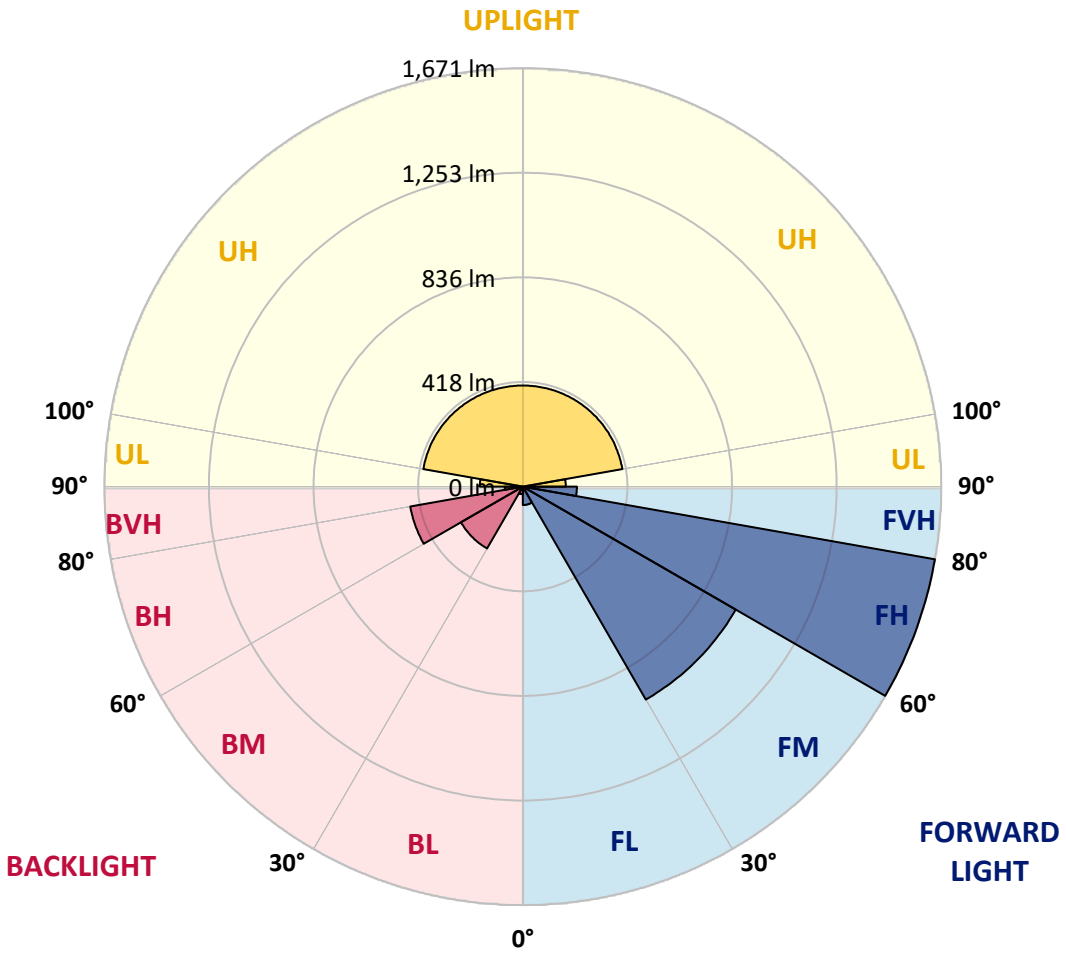
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	73.6	1.7			
FM	(30°-60°)	982.0	22.5			
FH	(60°-80°)	1671.2	38.3			G1/1800
FVH	(80°-90°)	215.9	5.0			G2/225
BL	(0°-30°)	30.3	0.7	B0/110		
BM	(30°-60°)	285.1	6.5	B1/1000		
BH	(60°-80°)	456.4	10.5	B1/500		G1/500
BVH	(80°-90°)	72.1	1.7			G1/100
UL	(90°-100°)	171.7	3.9		U3/500	
UH	(100°-180°)	403.6	9.3		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3
2.5°	79.7	79.2	80.7	87.7	105.7	111.8	106.7	98.2	96.7	105.7	112.8
5°	108.8	107.7	106.7	99.7	92.7	96.2	106.2	108.8	98.7	80.2	68.2
7.5°	110.3	109.3	109.8	109.8	108.2	101.7	94.2	97.7	106.2	94.7	74.7
10°	122.8	122.3	122.3	121.8	120.3	118.3	117.8	110.3	97.2	87.2	83.2
12.5°	143.3	143.3	142.8	142.3	140.8	137.3	132.8	126.8	122.8	110.8	98.2
15°	159.9	158.4	159.4	157.9	155.4	153.4	147.8	141.3	129.3	121.3	110.3
17.5°	175.9	175.9	176.4	173.9	170.9	169.4	163.4	154.9	143.3	129.3	118.8
20°	196.0	194.4	194.4	191.9	188.4	183.4	177.9	170.4	160.9	141.8	127.8
22.5°	215.0	215.5	215.5	211.5	206.0	201.5	193.9	184.9	175.9	156.4	138.3
25°	236.5	236.0	235.5	235.0	229.5	221.5	212.0	202.5	196.0	176.9	151.9
27.5°	256.6	255.6	255.1	257.6	252.6	244.6	230.5	219.0	212.0	192.4	164.4
30°	278.6	278.1	278.1	279.1	277.1	264.6	249.6	236.0	226.0	206.5	176.4
32.5°	298.2	297.2	297.7	301.7	301.2	285.2	271.6	255.1	242.6	227.0	193.9
35°	346.3	344.3	347.3	353.3	357.8	340.8	322.2	296.7	277.6	261.6	227.5
37.5°	433.0	433.5	434.5	426.5	409.4	396.9	387.9	367.3	343.8	316.7	276.6
40°	436.5	436.0	438.5	450.5	457.6	436.0	415.0	390.9	384.9	361.8	310.7
42.5°	477.1	474.1	476.6	488.1	497.6	484.6	466.1	425.5	403.4	382.9	340.8
45°	535.2	531.7	536.2	538.2	536.2	522.2	525.2	492.1	471.6	430.0	371.4
47.5°	623.9	640.0	642.5	643.0	663.0	644.0	632.0	600.4	553.8	504.2	437.5
50°	876.0	902.1	893.1	884.5	886.0	871.5	855.0	811.4	748.7	665.0	569.8
52.5°	1250.4	1240.4	1241.9	1247.4	1261.4	1196.8	1168.7	1103.0	1001.8	901.6	764.3
55°	1708.4	1725.5	1724.5	1742.5	1740.0	1670.4	1581.7	1471.4	1324.1	1177.2	1014.8
57.5°	2274.8	2244.7	2224.6	2191.6	2163.0	2068.3	2009.6	1890.4	1695.4	1474.9	1266.4
60°	2592.5	2575.9	2570.9	2525.3	2486.2	2370.0	2249.2	2119.9	1967.5	1706.9	1470.4
62.5°	2711.8	2719.8	2712.8	2683.2	2657.1	2555.4	2352.4	2211.6	2075.3	1824.7	1575.6
65°	2803.5	2808.0	2791.9	2724.8	2653.6	2562.4	2343.9	2205.1	2075.8	1829.2	1585.7
67.5°	2691.2	2690.2	2677.7	2581.0	2460.7	2370.5	2172.0	2022.7	1912.9	1706.9	1471.9
70°	2234.7	2237.7	2240.2	2169.0	2037.2	1970.0	1769.1	1640.8	1546.1	1368.2	1199.3
72.5°	1749.5	1758.6	1762.6	1706.9	1609.2	1540.1	1405.7	1309.5	1221.3	1080.0	947.2
75°	1316.0	1325.1	1322.6	1288.0	1219.3	1200.3	1135.1	1052.9	979.3	869.5	757.2
77.5°	987.3	979.8	977.8	944.2	876.5	881.5	863.0	815.9	758.8	694.1	615.9
80°	654.0	647.5	634.5	646.0	640.5	624.4	593.9	569.8	547.3	508.7	466.1
82.5°	481.1	479.1	476.6	469.1	464.1	460.1	446.5	407.9	380.9	358.8	333.3
85°	450.0	444.0	445.0	432.0	416.5	402.4	391.9	375.4	354.3	319.7	282.7
87.5°	392.9	392.9	389.9	380.9	365.3	361.8	354.3	342.8	330.3	303.7	270.6
90°	326.8	324.7	324.7	324.2	320.7	318.2	303.7	293.2	287.7	261.1	238.0
92.5°	301.7	300.7	298.7	296.2	286.2	284.2	269.6	256.1	244.1	227.5	209.5
95°	245.1	247.1	242.6	242.1	237.0	234.0	222.5	216.0	208.0	194.4	177.9
97.5°	207.0	204.0	204.5	200.0	195.0	192.9	185.9	176.4	168.9	158.4	146.3
100°	189.9	189.4	188.4	184.9	177.9	173.4	165.9	156.9	149.3	139.8	129.8
102.5°	178.9	178.4	177.9	174.9	166.9	164.4	157.4	150.3	143.8	135.3	122.3
105°	167.9	167.4	166.4	162.9	157.9	155.4	148.8	144.8	138.3	130.8	118.3
107.5°	157.9	157.9	157.4	153.4	150.3	148.3	141.8	138.3	131.3	124.8	112.8
110°	152.9	152.9	152.4	149.3	143.3	140.3	134.3	129.8	123.3	116.8	107.2

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	147.3	*147.8*	147.8	148.8	134.3	128.8	123.8	120.3	114.8	108.8	100.7
115°	134.8	*135.3*	134.8	139.8	134.8	127.3	124.3	118.3	111.3	101.7	93.2
117.5°	135.8	*135.8*	136.8	139.3	136.8	129.8	123.3	115.8	109.8	100.2	92.7
120°	153.9	*152.9*	152.9	147.8	146.8	140.3	135.8	127.8	117.8	108.2	97.7
122.5°	147.8	*147.3*	147.8	139.8	139.3	137.8	136.3	134.8	121.8	116.3	102.7
125°	118.3	*117.3*	116.8	113.8	118.8	115.3	114.3	117.8	109.3	104.2	96.7
127.5°	105.7	*104.7*	104.2	103.2	106.2	100.2	99.2	100.2	93.7	87.7	83.2
130°	101.2	*99.7*	99.7	103.2	107.7	102.7	97.2	93.2	90.7	86.7	79.2
132.5°	95.7	*95.7*	96.2	100.7	108.8	103.2	93.2	85.2	84.2	84.7	81.2
135°	94.2	*93.7*	94.2	92.7	92.2	89.2	84.7	78.2	76.7	80.7	76.7
137.5°	96.7	*96.2*	95.7	91.7	87.2	84.7	83.7	79.7	75.7	73.2	69.2
140°	95.7	*95.7*	95.2	94.2	91.2	86.2	85.2	81.2	77.2	72.7	67.7
142.5°	97.2	*98.7*	99.7	100.7	99.7	94.2	88.7	82.2	77.7	75.2	69.7
145°	119.8	*119.8*	119.8	117.8	114.3	109.8	105.7	101.2	97.7	89.7	82.2
147.5°	99.2	*99.2*	98.7	99.2	99.2	97.2	96.7	95.2	95.7	91.7	84.2
150°	68.7	*70.2*	70.2	72.7	73.7	72.7	72.7	73.7	72.2	71.7	67.7
152.5°	55.6	*55.1*	54.1	55.1	55.1	55.6	55.6	54.6	54.1	54.1	51.6
155°	49.1	*49.1*	49.1	48.6	47.6	48.1	48.6	48.6	47.1	46.1	44.1
157.5°	39.1	*38.6*	38.6	39.6	39.6	39.6	39.6	39.6	39.6	40.1	40.6
160°	33.1	*32.1*	32.6	32.6	33.1	33.6	33.1	33.6	33.6	34.1	33.6
162.5°	27.1	*26.6*	26.6	27.1	27.6	28.1	28.6	28.6	29.1	30.1	30.6
165°	24.1	*24.1*	24.1	24.6	24.6	25.1	25.6	26.1	27.1	28.6	29.1
167.5°	22.6	*22.6*	22.6	22.6	23.1	23.6	24.6	26.1	27.1	28.6	28.6
170°	22.1	*22.1*	22.6	22.6	22.6	23.1	25.1	26.6	27.1	27.6	27.6
172.5°	23.1	*23.1*	23.1	23.1	23.1	24.1	26.6	27.1	27.1	27.1	27.6
175°	24.1	*24.1*	23.6	23.6	24.1	24.6	25.1	27.6	28.6	29.1	30.1
177.5°	22.6	*22.6*	22.6	23.1	23.1	23.6	24.1	25.1	25.1	26.1	27.6
180°	25.1	*25.1*	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3
2.5°	117.8	126.3	115.8	104.7	96.7	101.2	106.2	102.2	97.7	98.2	89.7
5°	70.7	72.7	73.7	64.1	53.1	59.1	72.2	67.7	52.1	29.1	25.1
7.5°	68.2	65.2	64.1	71.2	64.6	43.1	33.6	30.6	40.6	48.6	51.1
10°	80.7	77.2	69.7	57.1	50.6	47.6	46.6	44.6	38.6	30.1	28.6
12.5°	92.7	88.7	81.7	75.7	67.2	56.1	49.1	47.1	50.6	56.6	56.6
15°	104.7	99.2	90.2	82.2	75.7	63.6	54.6	46.6	45.6	47.1	47.1
17.5°	113.3	107.2	96.7	85.7	74.2	62.6	52.1	44.1	40.6	39.6	39.6
20°	121.8	116.3	103.7	91.7	77.7	64.1	52.1	43.6	39.6	38.1	37.6
22.5°	132.8	125.8	111.8	98.7	81.7	65.2	51.6	44.1	39.6	37.1	36.6
25°	145.3	137.3	121.3	105.7	85.7	66.2	52.1	44.6	40.1	37.1	36.6
27.5°	155.4	146.8	131.3	113.8	90.7	68.7	54.1	45.6	40.6	37.6	37.1
30°	166.9	157.9	140.3	122.3	96.7	72.7	58.1	48.6	42.6	38.6	38.6
32.5°	184.4	172.4	152.9	130.3	102.7	77.2	62.6	52.1	44.6	41.6	41.6
35°	213.0	201.0	174.9	145.8	109.3	81.7	66.2	55.6	47.1	43.1	43.1
37.5°	258.6	240.6	211.5	171.4	119.8	85.2	70.2	58.1	48.6	43.1	42.1
40°	285.2	265.1	228.5	190.4	132.8	89.7	73.2	60.1	49.6	43.6	43.1
42.5°	314.7	291.7	244.6	195.5	141.3	100.2	77.7	62.1	50.6	45.1	44.1
45°	345.8	323.7	281.1	222.0	161.4	114.8	85.2	66.2	53.6	47.1	46.1
47.5°	402.4	375.4	320.2	259.6	190.9	137.8	101.7	72.7	57.1	49.1	48.1
50°	529.7	504.7	428.0	337.3	238.0	170.9	127.3	86.2	62.6	50.6	49.1
52.5°	702.1	657.5	570.8	457.1	332.3	239.6	169.9	116.3	71.2	52.1	49.6
55°	952.7	903.1	774.8	626.4	455.1	347.8	257.1	174.9	101.2	53.6	49.1
57.5°	1201.8	1141.6	1033.9	830.9	611.4	443.5	343.8	256.1	147.3	60.1	50.6
60°	1380.2	1307.0	1173.7	987.8	741.7	521.7	388.4	279.1	163.9	61.6	52.1
62.5°	1485.4	1393.7	1226.3	1004.3	772.8	554.3	406.4	263.6	140.8	60.1	54.1
65°	*1504.5*	*1400.2*	*1226.3*	*975.8*	*740.7*	*525.7*	*392.9*	*243.6*	*111.3*	*57.6*	*55.6*
67.5°	1395.2	1298.0	1151.2	896.1	657.0	451.5	338.3	200.5	84.7	55.6	55.1
70°	1145.1	1072.0	952.2	732.2	533.2	367.3	269.1	154.4	68.7	53.1	52.1
72.5°	893.6	825.9	736.2	574.3	412.5	291.2	205.5	120.8	61.1	51.1	50.6
75°	703.1	652.5	578.3	453.5	310.2	220.5	155.9	91.2	55.1	50.1	49.1
77.5°	575.3	542.3	465.6	346.3	231.5	163.9	116.3	72.7	52.6	49.1	48.6
80°	447.5	420.0	371.9	259.1	165.9	123.3	91.7	64.1	51.1	48.6	48.1
82.5°	319.2	309.7	269.1	201.5	138.3	105.7	82.7	61.6	50.6	48.1	47.6
85°	266.6	253.1	223.0	174.9	127.3	100.7	79.2	60.6	50.6	48.1	47.6
87.5°	257.6	245.6	218.0	166.9	119.8	94.7	75.7	58.6	49.6	47.1	47.1
90°	227.5	215.5	194.4	150.3	110.3	88.2	70.7	55.6	47.6	45.1	45.1
92.5°	201.5	194.4	174.4	137.8	105.7	84.7	68.2	54.1	46.6	44.6	44.1
95°	170.4	164.4	148.8	124.3	99.2	80.7	66.2	52.6	45.6	43.6	43.6
97.5°	141.3	136.3	124.3	105.2	85.7	71.7	59.6	49.6	44.1	42.6	42.6
100°	124.8	120.8	110.3	94.7	79.2	67.2	57.6	49.1	43.6	41.6	41.6
102.5°	118.3	114.3	103.7	89.7	75.2	64.1	56.1	48.1	43.1	41.1	40.6
105°	113.3	109.3	99.7	85.2	71.2	61.1	53.1	47.1	42.1	40.6	40.1
107.5°	108.2	103.7	94.7	80.2	67.7	58.1	51.1	45.6	41.6	40.1	40.1
110°	102.7	98.7	90.2	76.2	65.2	56.1	50.1	45.1	41.6	40.1	40.1

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

Scaled Data Report

REPORT NUMBER: P1045737
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	96.7	92.7	84.7	72.2	62.6	54.6	49.1	44.6	41.6	40.1	40.1
115°	89.7	86.2	78.7	68.2	59.6	52.6	47.6	43.6	40.6	39.6	39.6
117.5°	87.7	83.7	76.2	66.7	58.6	51.1	46.6	42.6	40.1	39.1	39.1
120°	92.2	86.7	78.7	69.7	58.6	50.1	45.6	42.1	39.6	38.6	38.6
122.5°	98.2	93.7	84.7	68.2	56.6	49.1	44.6	41.6	39.1	38.6	38.6
125°	92.7	89.7	81.2	63.1	54.6	48.1	44.1	41.6	39.6	38.6	38.6
127.5°	81.2	78.2	71.7	60.1	52.6	47.1	43.6	41.6	40.1	38.6	38.6
130°	76.7	72.7	66.7	57.6	50.6	45.6	43.1	41.6	40.1	38.1	37.6
132.5°	78.7	75.2	65.7	54.1	47.6	43.6	41.6	40.6	37.6	35.6	35.1
135°	74.2	70.7	61.1	51.6	46.1	43.1	41.1	38.1	35.1	32.6	32.6
137.5°	66.2	62.1	56.6	49.6	45.6	44.1	41.6	37.6	33.6	31.6	31.6
140°	65.7	61.1	56.1	49.1	44.6	40.6	37.6	33.6	30.6	29.6	29.1
142.5°	66.7	63.6	56.6	48.6	42.6	37.6	34.1	31.1	29.1	27.6	27.6
145°	77.2	72.7	63.6	53.1	46.1	40.1	35.1	31.1	28.1	25.6	25.1
147.5°	79.7	75.2	67.2	58.1	49.1	41.6	34.6	29.6	25.6	23.6	23.1
150°	66.7	63.6	59.1	52.1	44.1	36.6	30.6	26.1	23.6	22.6	22.1
152.5°	50.6	49.6	46.6	41.6	36.1	31.1	27.1	24.6	23.1	22.6	22.1
155°	43.1	42.6	39.6	35.6	31.1	27.6	25.1	23.6	22.6	22.6	22.1
157.5°	40.1	39.1	36.6	32.6	28.6	26.6	24.1	23.1	22.6	22.6	22.6
160°	33.6	32.6	30.6	29.1	26.6	25.1	23.6	23.1	22.6	22.6	22.1
162.5°	30.1	29.1	28.1	26.6	26.1	25.6	25.1	24.1	23.6	23.1	23.1
165°	28.6	28.1	26.6	26.1	26.1	26.6	26.6	25.6	24.6	23.6	23.6
167.5°	28.1	27.6	26.6	26.1	27.1	27.6	28.1	27.1	26.1	24.6	24.1
170°	28.1	28.1	27.6	27.1	27.6	28.1	28.6	28.6	28.1	27.1	27.1
172.5°	28.1	28.6	28.1	28.1	28.1	28.1	28.1	29.1	29.1	28.6	28.6
175°	30.1	30.1	28.6	28.1	28.6	29.1	29.6	29.1	29.1	29.6	29.6
177.5°	27.6	28.6	30.6	31.1	32.1	32.1	31.1	30.6	29.1	28.6	28.6
180°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1

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

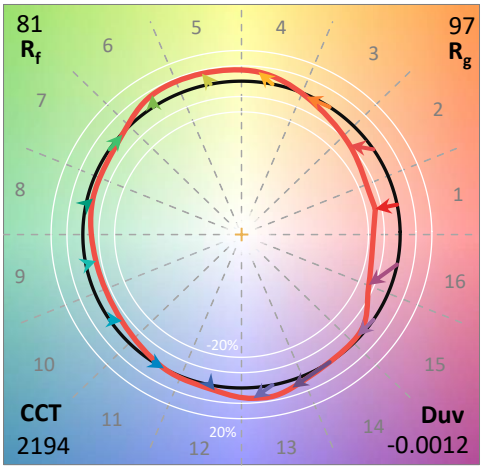
Test Information

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

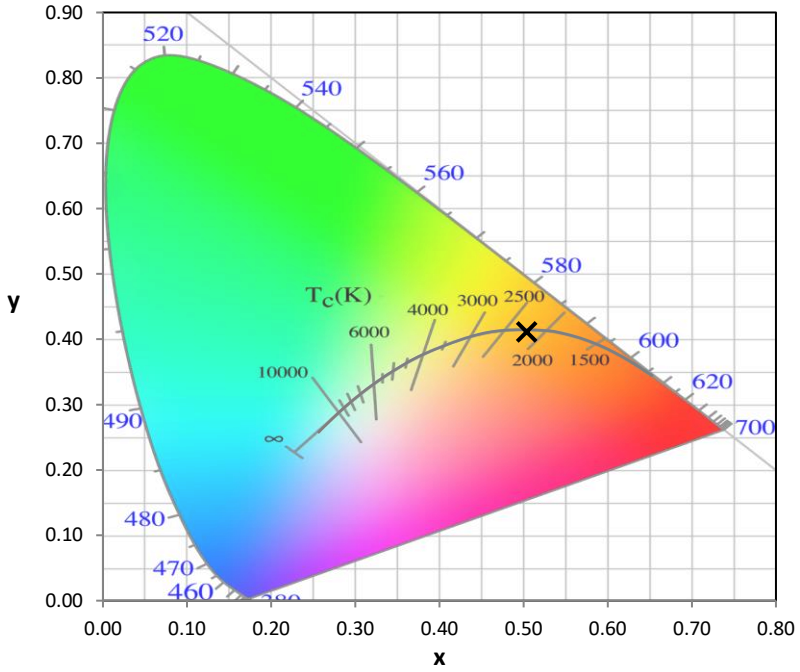
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

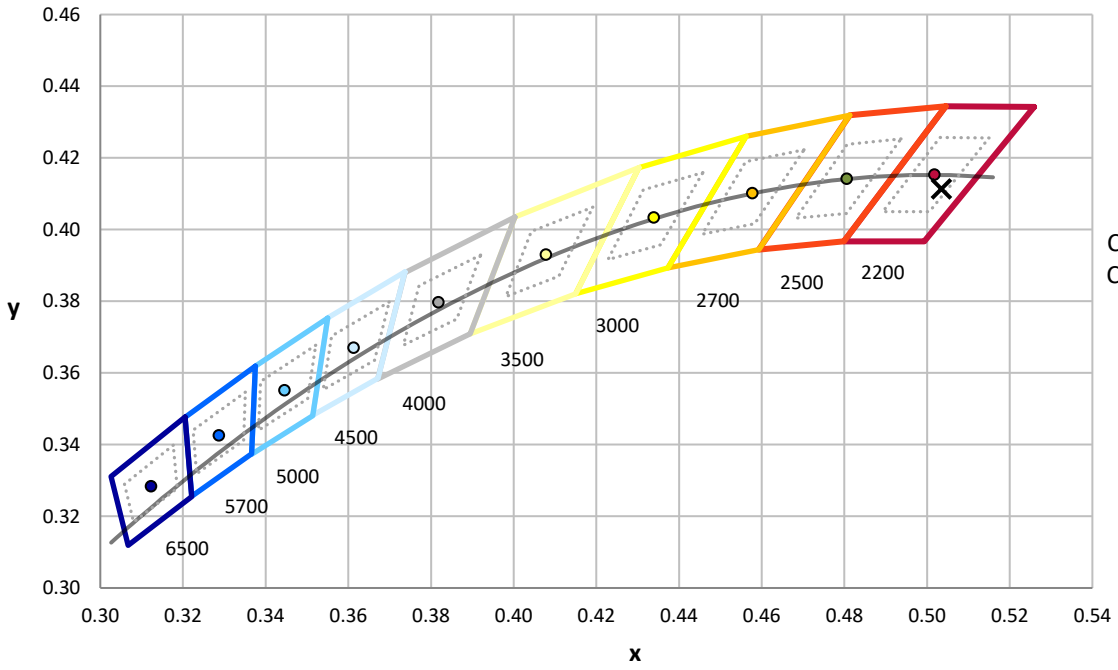
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

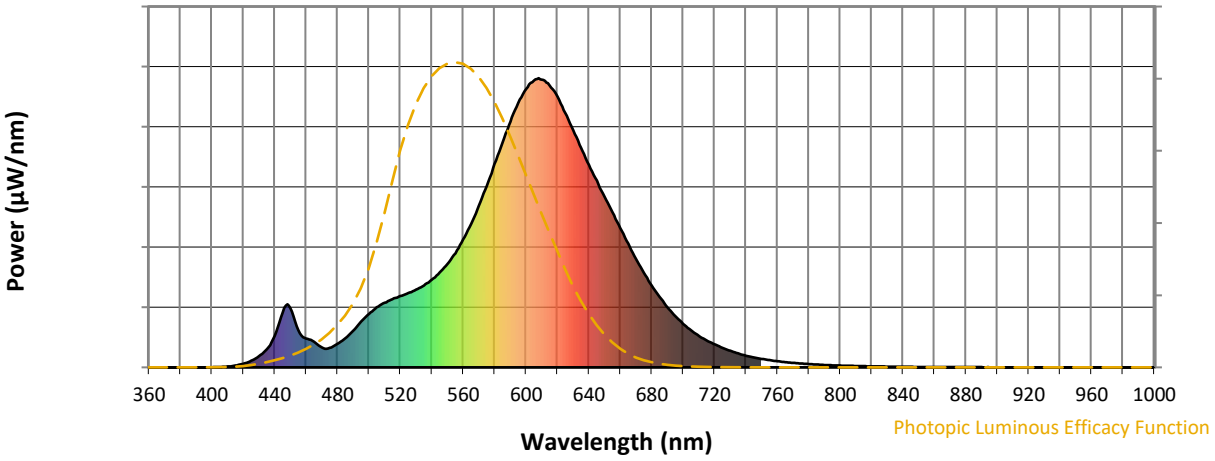


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

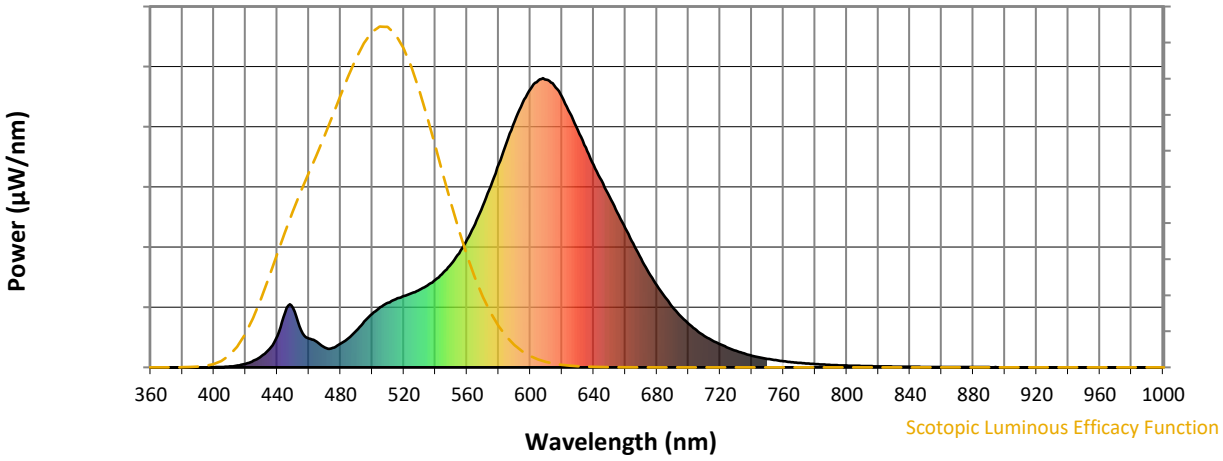


Photopic Lumens: NR

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

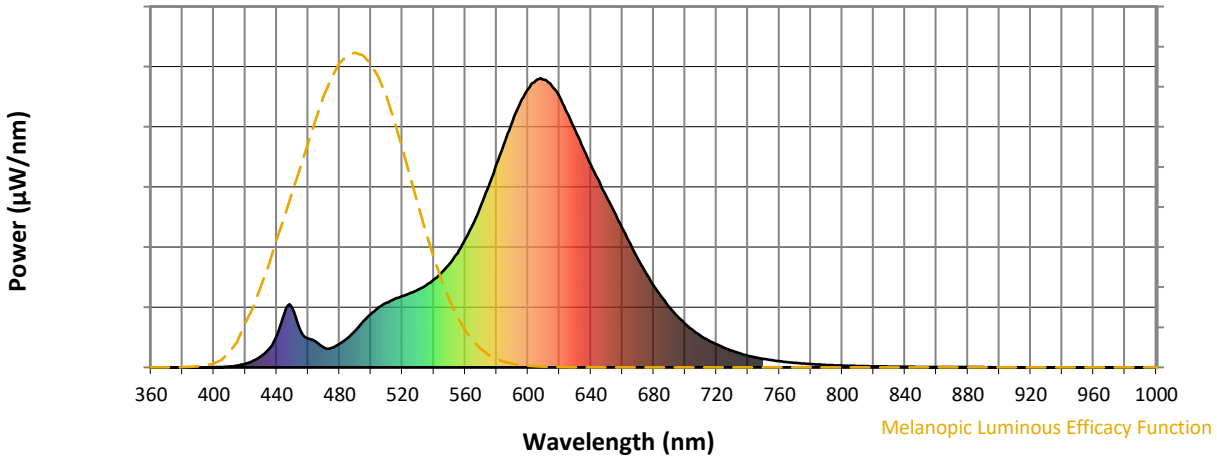


Scotopic Lumens: NR **S/P: 0.96**

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			

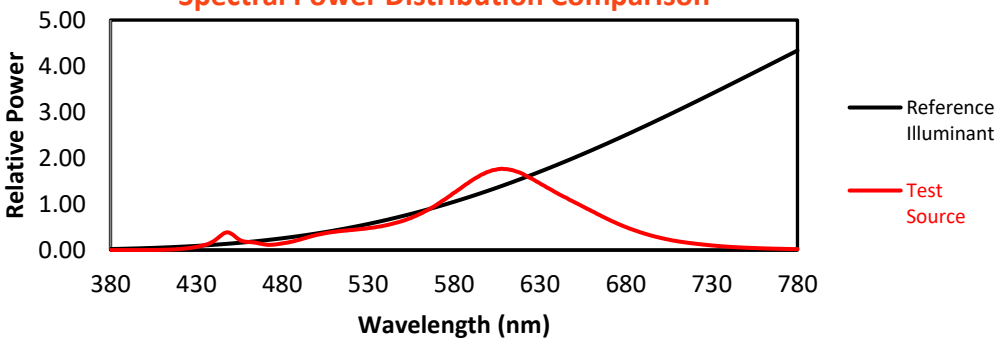
REPORT NUMBER: SP1-2501-332-7

TM-30-18

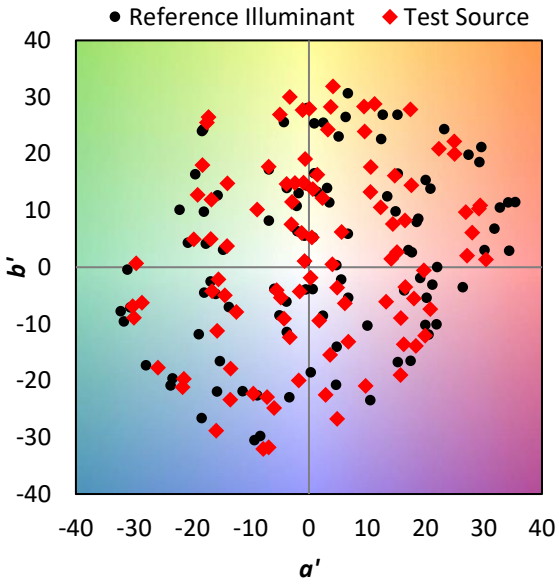
Summary

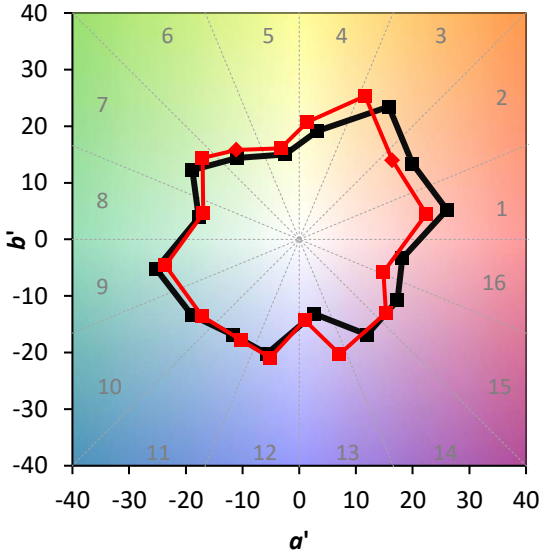
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

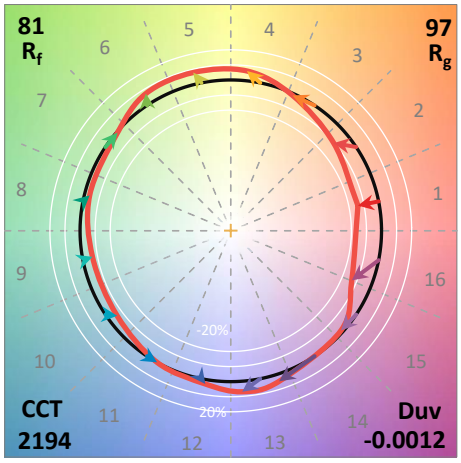
Spectral Power Distribution Comparison

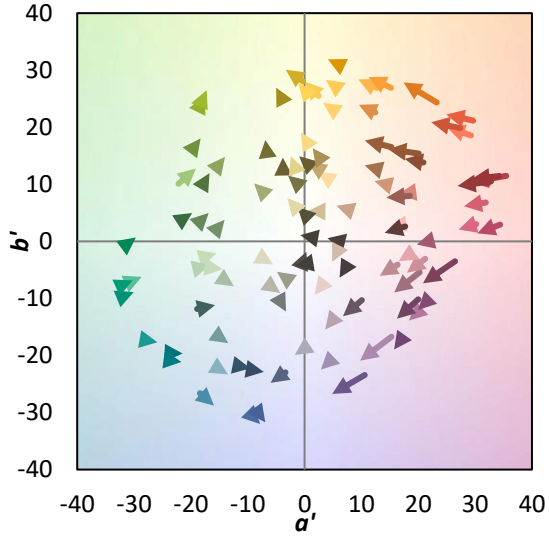


Color Vector Graphics







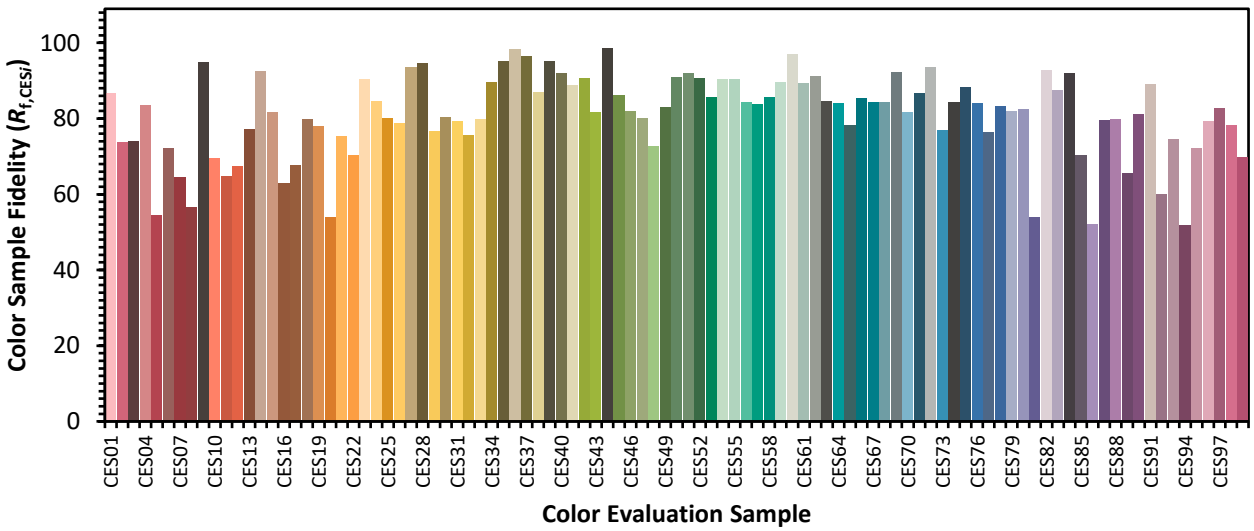


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

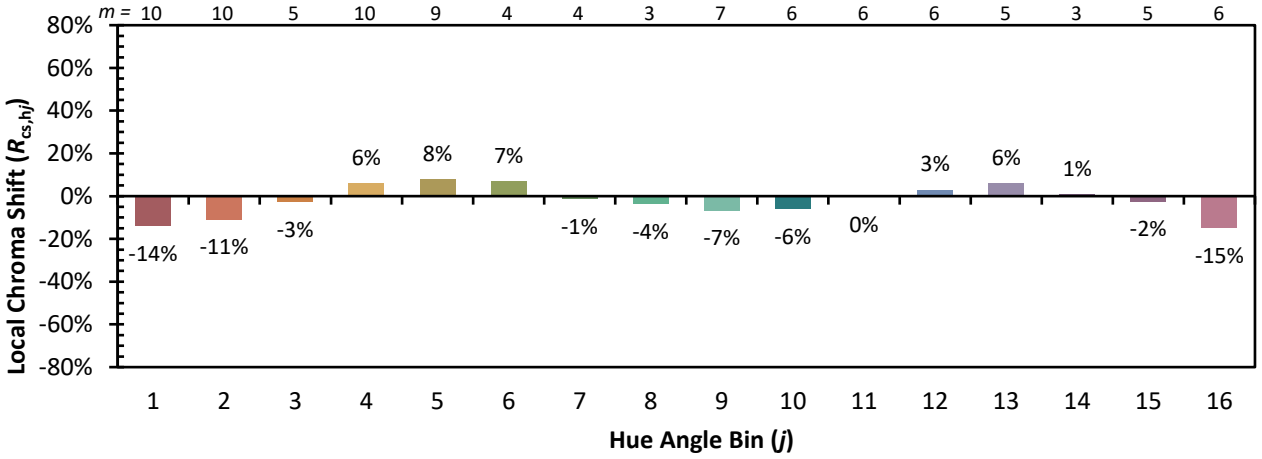
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57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

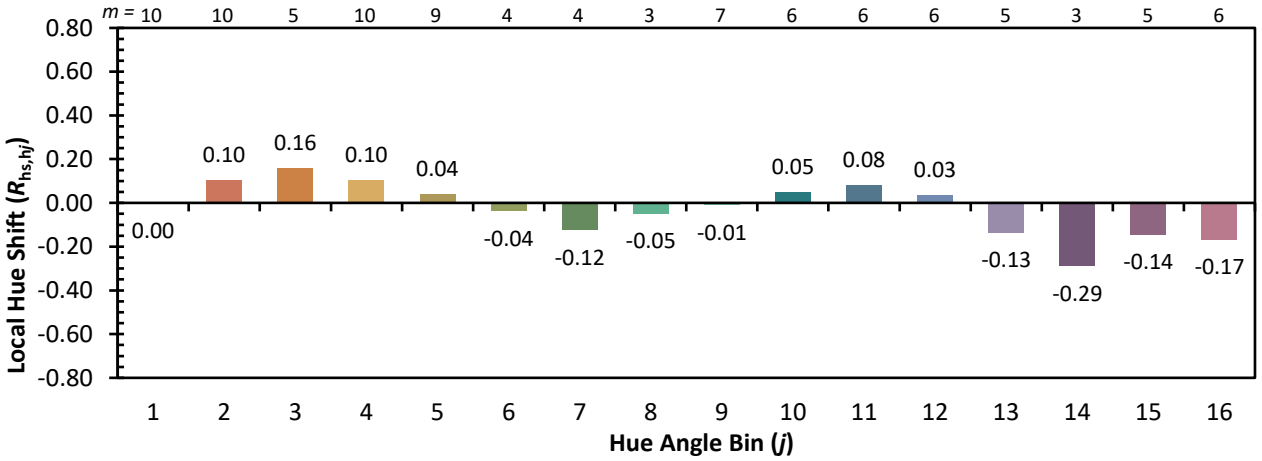


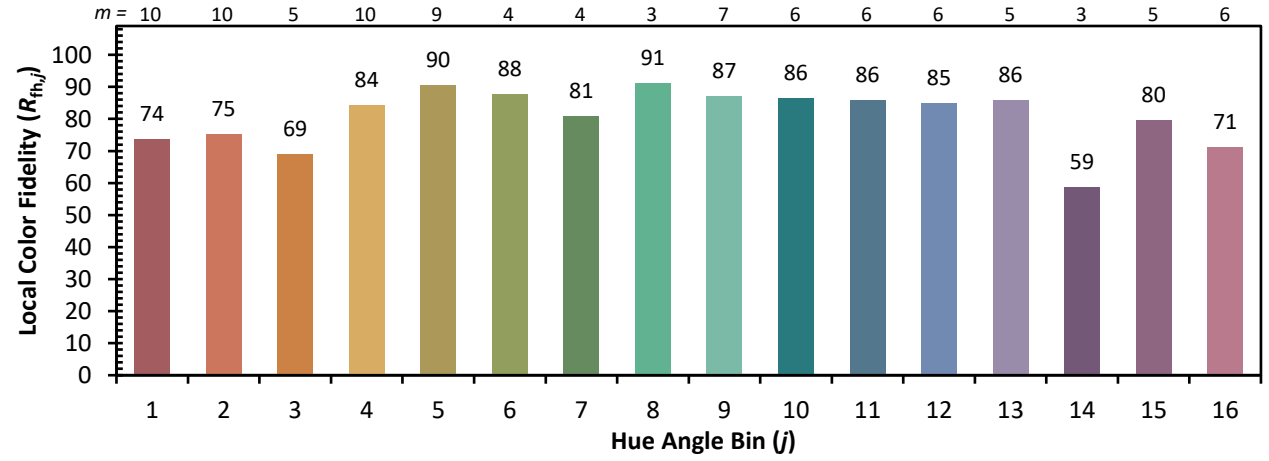
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Color Rendition by Hue-Angle Bin



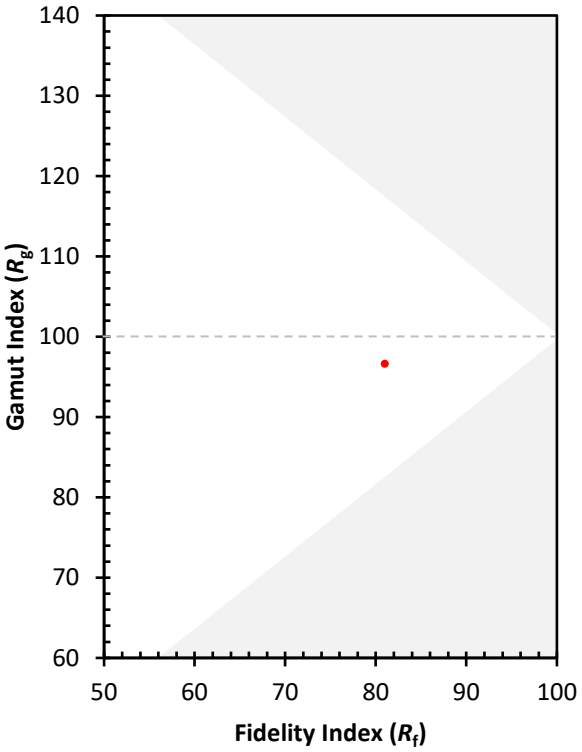


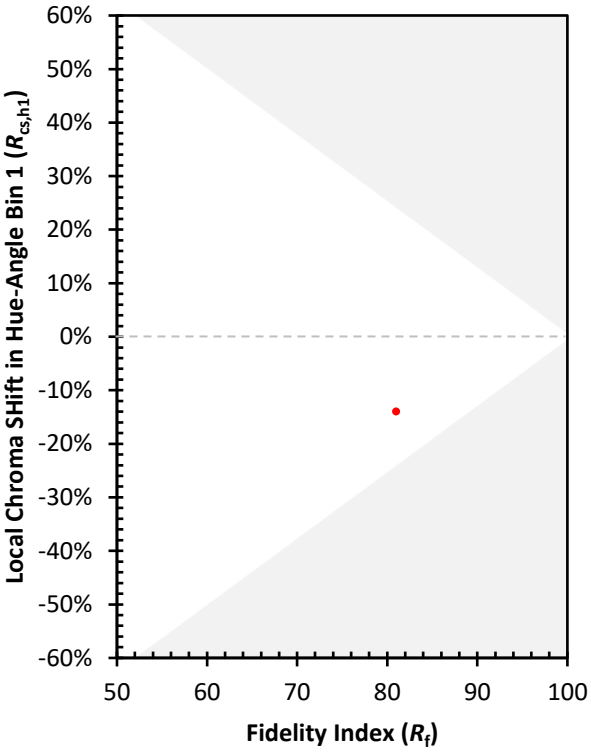


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Measure Comparisons





(END OF REPORT)