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: P1046261

Luminaire Tested: **FFX-CLB-30-740-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:	P1046261
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-740-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4572 lumens
Efficiency:	N/A
Efficacy:	149.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U3 - G3

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

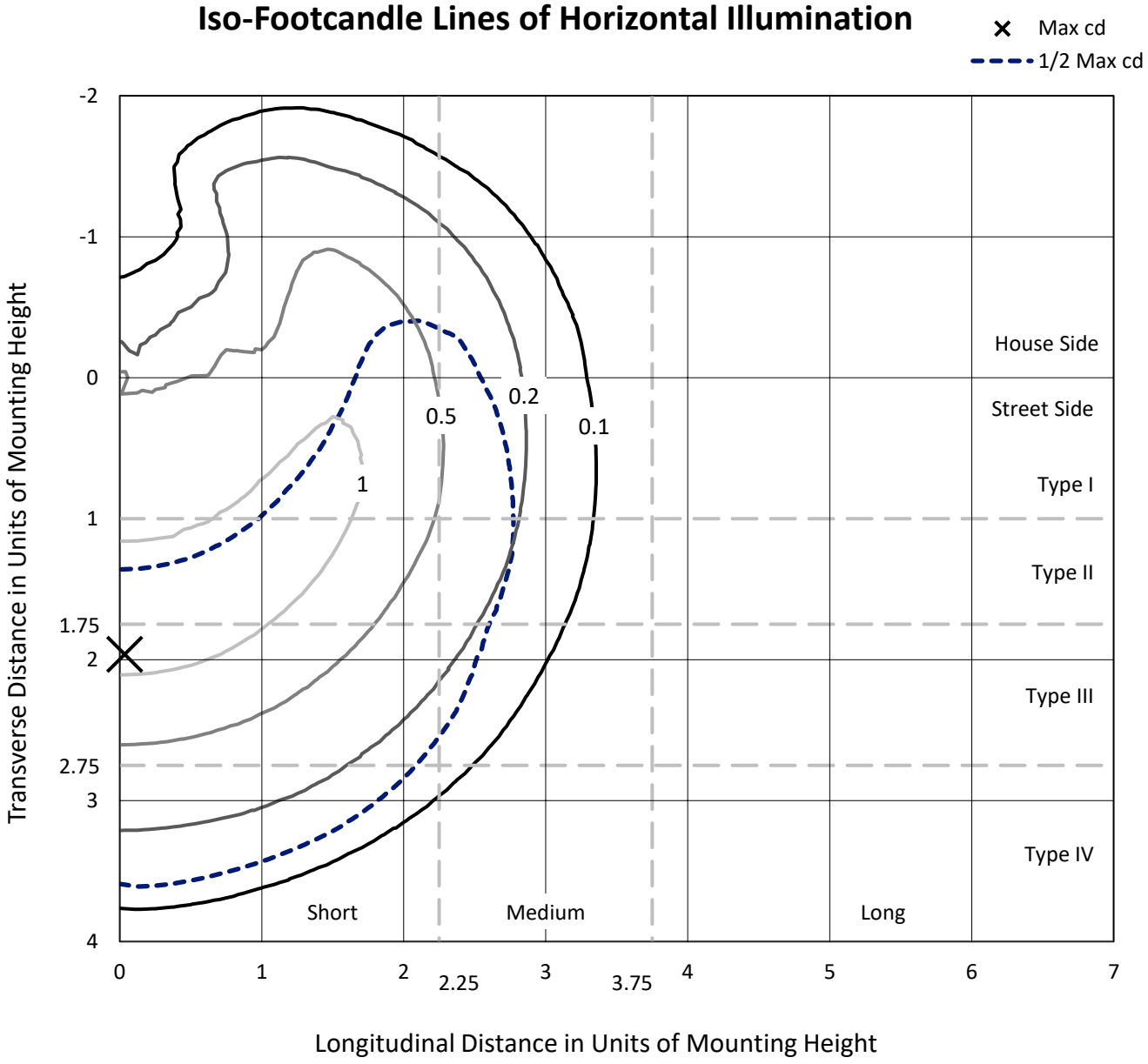


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Iso-Footcandle Lines of Horizontal Illumination



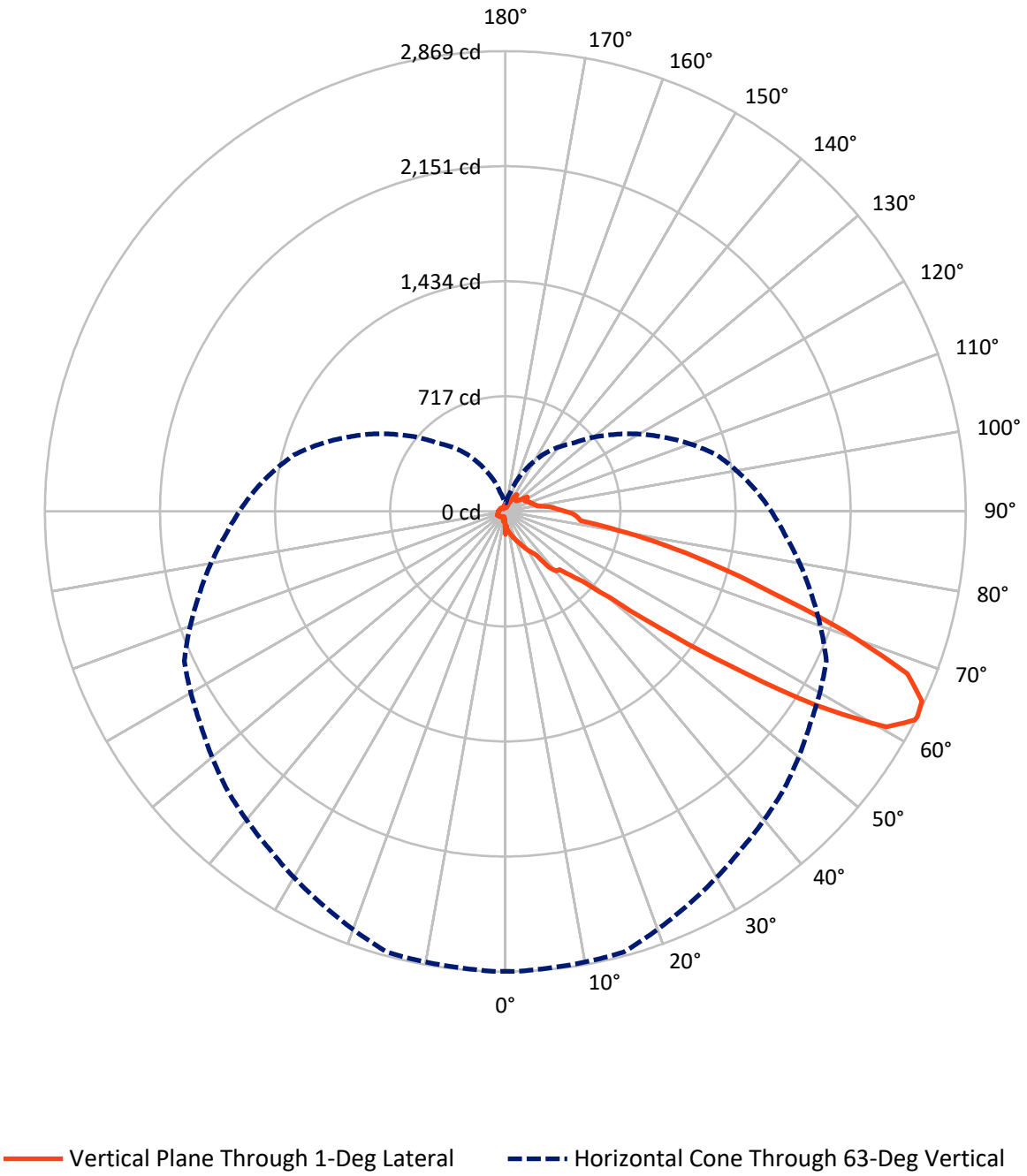
Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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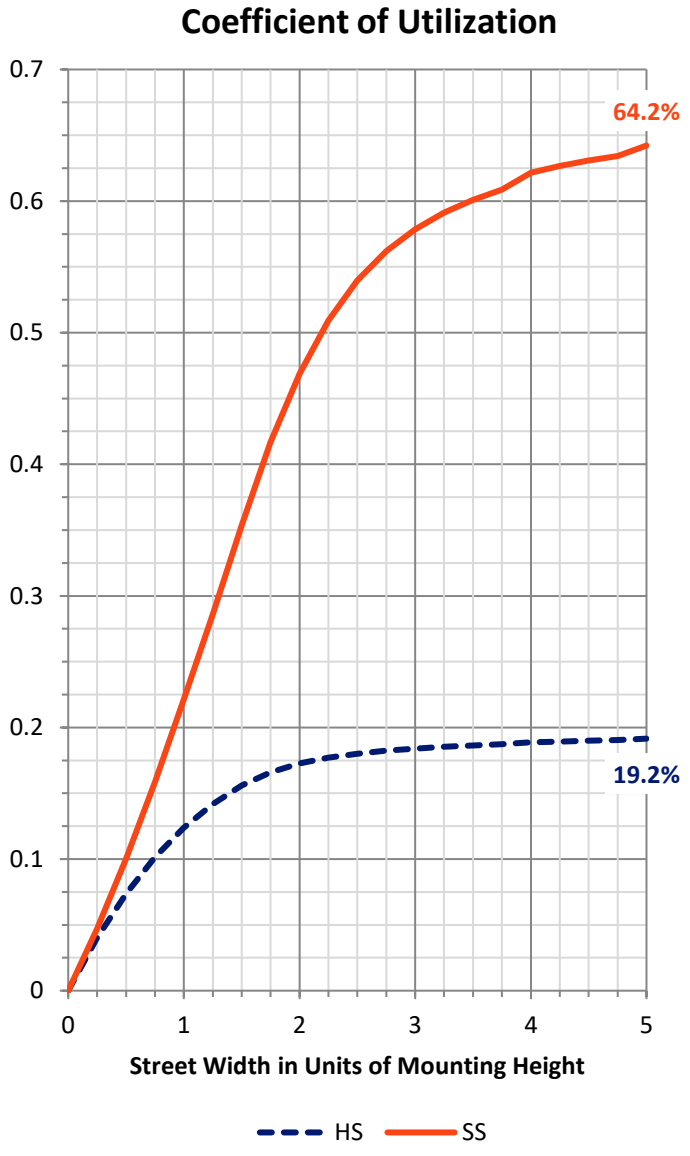
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	905.2	181.3	1086.6
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	3066.8	418.6	3485.4
	% Fixture	67.1	9.2	76.2
Total	Lumens	3972.0	600.0	4572.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.2
10°-20°	30.1	0.7
20°-30°	66.3	1.5
30°-40°	135.8	3.0
40°-50°	274.2	6.0
50°-60°	885.0	19.4
60°-70°	1458.0	31.9
70°-80°	803.7	17.6
80°-90°	310.5	6.8
90°-100°	186.2	4.1
100°-110°	118.6	2.6
110°-120°	90.7	2.0
120°-130°	77.4	1.7
130°-140°	51.9	1.1
140°-150°	44.2	1.0
150°-160°	20.1	0.4
160°-170°	8.2	0.2
170°-180°	2.8	0.1
0°-90°	3972.0	86.9
0°-180°	4572.0	100.0



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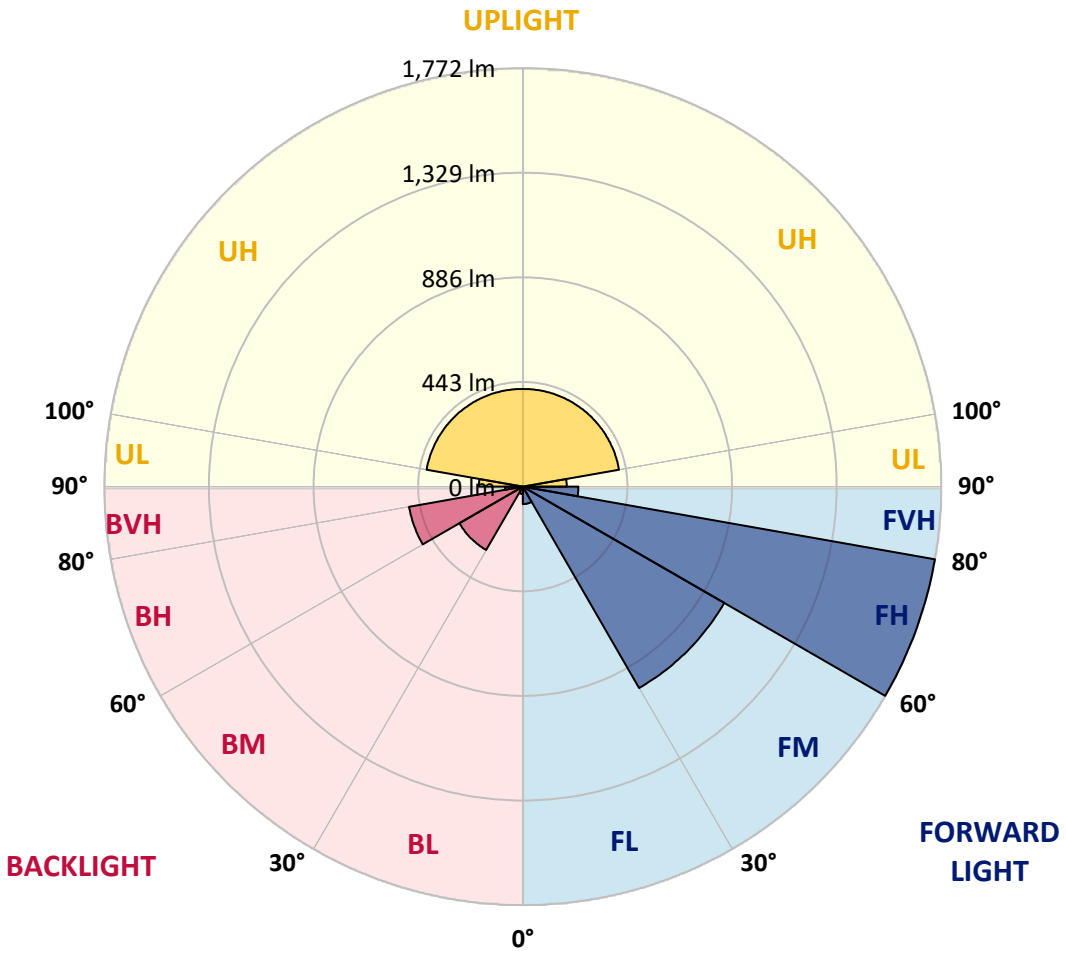
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	74.1	1.6			
FM	(30°-60°)	985.0	21.5			
FH	(60°-80°)	1772.5	38.8			G1/1800
FVH	(80°-90°)	235.3	5.1			G3/500
BL	(0°-30°)	30.9	0.7	B0/110		
BM	(30°-60°)	309.9	6.8	B1/1000		
BH	(60°-80°)	489.2	10.7	B1/500		G1/500
BVH	(80°-90°)	75.2	1.6			G1/100
UL	(90°-100°)	186.2	4.1		U3/500	
UH	(100°-180°)	413.8	9.1		U3/500	

BUG Rating: B1-U3-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7
2.5°	89.4	88.5	92.7	105.7	120.0	124.6	115.1	111.6	122.0	146.0	148.6
5°	103.1	104.7	103.7	105.4	106.7	116.8	125.9	116.4	94.3	77.1	78.4
7.5°	121.6	121.3	121.3	120.0	113.5	103.1	100.2	107.7	108.0	90.4	76.8
10°	129.8	129.4	129.4	128.1	126.8	127.8	124.6	110.9	99.8	92.7	88.1
12.5°	147.0	146.4	146.0	145.4	143.1	140.5	138.2	138.9	129.4	111.6	99.8
15°	161.3	160.7	161.3	162.0	160.3	155.8	149.3	140.2	131.7	124.2	113.8
17.5°	176.9	176.6	176.3	175.6	173.3	167.2	159.4	150.9	141.5	131.1	121.3
20°	191.9	191.2	191.6	191.9	190.9	183.4	175.6	165.2	155.1	145.1	133.7
22.5°	209.8	209.8	208.8	208.8	207.8	203.3	193.5	181.5	171.1	158.4	145.7
25°	232.9	231.9	231.9	230.9	227.0	222.1	215.3	201.6	189.3	177.2	160.3
27.5°	255.6	254.7	254.7	254.3	249.5	242.9	231.6	218.6	206.8	191.6	171.1
30°	281.6	281.0	281.3	277.7	273.8	264.7	250.4	235.5	220.2	202.3	182.5
32.5°	308.0	306.0	305.7	301.8	296.6	285.6	269.6	255.3	239.4	218.6	202.0
35°	338.9	334.7	339.2	338.2	337.6	325.9	307.7	291.1	272.2	253.4	235.5
37.5°	441.0	443.0	442.0	429.0	418.6	402.6	394.5	375.0	349.0	325.9	292.1
40°	489.1	488.5	486.9	472.6	463.1	446.5	433.5	418.9	403.6	367.5	325.6
42.5°	499.6	496.0	498.6	511.9	524.3	513.2	471.9	424.7	403.3	377.9	356.1
45°	575.7	566.5	570.5	574.0	562.0	546.1	528.2	497.6	461.5	425.1	385.1
47.5°	657.0	652.1	651.8	650.5	651.8	636.5	612.7	584.4	533.4	494.0	449.5
50°	855.0	848.5	850.5	852.1	845.3	829.7	804.0	785.4	724.3	648.8	590.9
52.5°	1218.3	1214.4	1205.3	1205.9	1144.5	1141.2	1106.4	1089.8	999.8	913.6	796.8
55°	1666.8	1692.2	1664.2	1658.7	1633.3	1610.5	1523.4	1451.2	1322.1	1198.1	1061.2
57.5°	2274.3	2278.5	2243.1	2244.1	2154.0	2096.7	2016.4	1905.8	1713.6	1534.8	1381.2
60°	2717.0	2727.7	2711.1	2676.6	2502.3	2399.9	2311.4	2224.2	2077.6	1811.8	1598.2
62.5°	2861.0	2864.3	2853.9	2835.7	2681.8	2551.1	2437.3	2310.7	2198.2	1958.9	1744.2
63°	2866.2	2868.5	2860.4	2844.8	2702.0	2566.4	2452.5	2317.3	2207.0	1971.9	1753.0
65°	2852.3	2853.2	2849.7	2828.8	2714.7	2571.3	2446.0	2312.7	2211.6	1977.1	1753.0
67.5°	2726.4	2701.7	2712.1	2677.0	2582.0	2439.2	2319.5	2183.6	2092.5	1865.8	1651.2
70°	2243.1	2244.7	2243.1	2223.9	2196.9	2084.1	1944.2	1821.9	1706.8	1528.9	1360.4
72.5°	1735.4	1742.2	1727.3	1738.3	1716.6	1623.2	1532.8	1408.9	1327.9	1177.0	1028.4
75°	1344.2	1358.2	1362.7	1331.2	1312.3	1292.5	1243.0	1153.9	1072.9	956.2	826.4
77.5°	1015.7	1018.3	1022.2	1000.7	976.0	983.8	976.7	934.4	866.4	780.5	677.5
80°	701.8	709.3	722.0	709.6	712.6	708.0	707.0	673.2	624.1	570.1	514.8
82.5°	471.6	471.3	474.5	494.3	512.6	511.9	483.0	435.5	410.4	394.8	363.6
85°	451.4	451.4	456.0	441.7	432.6	423.4	421.5	405.2	386.0	350.9	307.7
87.5°	420.8	419.9	421.2	408.8	396.8	393.9	390.9	376.9	368.5	337.9	298.2
90°	360.0	362.6	362.6	361.7	354.2	351.2	339.5	327.8	322.6	295.0	263.8
92.5°	317.7	317.7	321.3	315.1	307.0	311.6	291.4	276.1	269.0	250.4	225.7
95°	287.2	286.2	290.8	282.0	276.1	267.7	259.2	243.3	238.1	222.1	197.1
97.5°	229.3	228.3	230.9	226.7	217.6	213.7	204.6	191.9	187.0	172.0	156.8
100°	197.4	197.1	198.1	195.8	190.6	185.7	177.9	167.8	163.3	150.9	137.2
102.5°	187.3	186.4	186.7	187.0	179.5	175.0	167.5	159.7	155.1	145.1	130.1
105°	178.2	177.6	176.9	176.9	168.5	163.9	159.0	153.8	149.9	138.9	124.6
107.5°	169.8	168.8	166.5	166.2	160.7	155.8	149.9	145.4	141.5	131.4	117.7

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	160.3	*160.0*	158.7	159.0	155.5	148.0	143.1	137.6	132.7	123.9	111.9
112.5°	155.5	*155.5*	154.5	156.1	142.5	135.0	129.8	124.9	121.6	113.2	104.1
115°	150.3	*147.7*	146.7	149.9	134.3	123.9	118.7	113.5	110.3	101.8	94.3
117.5°	139.2	*138.5*	138.9	141.5	136.9	125.5	117.1	110.6	107.3	101.1	94.3
120°	158.7	*158.1*	154.2	153.5	145.7	136.6	131.1	127.5	122.6	112.5	99.5
122.5°	165.9	*164.6*	158.4	160.3	149.9	145.4	143.1	141.8	137.2	123.9	104.1
125°	144.4	*142.5*	140.8	141.5	135.6	129.8	127.5	125.5	121.0	113.5	99.2
127.5°	115.8	*116.8*	115.5	111.9	110.9	102.1	99.2	96.9	92.7	86.5	84.2
130°	108.6	*108.0*	107.7	107.0	106.3	99.8	95.3	89.8	86.2	81.0	74.8
132.5°	96.6	*97.2*	98.2	103.7	109.0	103.4	91.7	83.3	81.0	82.0	79.4
135°	91.7	*92.0*	92.0	96.3	100.8	95.3	86.5	78.4	77.4	81.0	77.7
137.5°	94.0	*95.6*	95.3	94.3	91.7	87.8	85.9	81.3	78.7	76.4	70.9
140°	99.2	*101.1*	100.2	94.6	92.7	90.7	92.0	90.4	83.9	76.1	68.0
142.5°	98.5	*100.2*	99.5	98.9	102.4	97.9	91.7	85.5	80.3	76.1	70.9
145°	127.8	*127.2*	124.6	124.6	120.3	113.5	109.3	102.8	96.6	91.1	82.6
147.5°	118.1	*119.7*	120.3	117.4	115.5	110.9	110.3	106.7	104.7	99.8	91.1
150°	93.7	*95.0*	93.0	90.7	89.8	90.1	88.5	85.9	83.9	80.3	76.4
152.5°	64.7	*65.4*	64.7	62.8	62.1	61.1	61.5	59.5	58.2	55.9	52.4
155°	58.9	*59.2*	59.5	56.3	55.6	55.9	56.3	55.0	52.4	50.4	46.2
157.5°	46.2	*45.5*	45.5	44.9	45.2	44.2	44.2	43.9	42.9	41.6	40.3
160°	36.8	*37.1*	37.1	37.1	37.7	37.1	37.1	36.1	36.1	35.4	34.8
162.5°	31.2	*31.2*	31.2	31.2	30.9	30.9	31.5	31.2	31.2	31.5	32.2
165°	26.3	*26.7*	26.7	26.7	26.7	26.7	27.3	27.3	28.0	29.3	30.9
167.5°	24.7	*24.4*	24.4	24.7	24.7	25.4	25.4	26.7	28.9	31.2	31.2
170°	23.4	*23.4*	23.4	23.7	23.7	24.1	25.0	27.3	29.9	30.9	29.6
172.5°	24.4	*24.1*	24.1	24.4	24.4	25.4	26.7	28.6	29.6	29.6	28.3
175°	25.0	*24.7*	24.7	25.0	25.0	25.7	27.0	28.3	28.9	29.3	29.3
177.5°	24.4	*24.4*	24.4	24.4	24.4	24.7	24.7	25.7	26.3	27.0	27.6
180°	23.4	*23.4*	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7
2.5°	148.6	135.6	116.4	93.0	108.3	127.2	124.6	109.9	87.8	66.0	66.0
5°	82.3	87.2	92.0	80.7	72.2	71.6	69.6	62.4	61.5	50.7	47.8
7.5°	71.9	67.3	66.3	78.4	77.4	51.1	40.3	35.8	37.7	51.1	52.7
10°	86.2	84.2	78.1	65.0	54.3	49.4	49.1	49.8	45.5	36.8	34.5
12.5°	97.2	94.0	88.5	84.6	72.2	57.6	49.4	45.9	48.5	61.5	64.4
15°	108.0	103.4	94.0	83.3	70.9	60.2	51.7	44.2	44.2	42.3	41.3
17.5°	116.4	110.6	99.2	87.5	73.5	60.2	49.1	41.6	38.1	37.4	37.4
20°	127.2	121.6	109.3	95.0	77.4	60.8	48.8	41.6	37.4	35.8	35.4
22.5°	140.5	133.3	117.4	100.5	79.7	61.5	49.4	42.0	37.7	35.4	34.8
25°	152.9	144.7	125.9	108.3	84.9	63.1	50.1	42.9	38.4	35.8	35.4
27.5°	162.9	154.2	136.6	116.4	90.4	67.0	53.3	44.9	39.4	36.8	36.1
30°	174.3	166.2	147.7	124.9	95.6	71.9	57.9	48.5	42.3	38.7	38.4
32.5°	191.2	181.2	159.7	133.7	101.8	77.1	62.4	51.7	44.2	42.3	42.3
35°	221.8	211.4	183.1	148.0	107.7	82.3	67.0	55.3	47.2	42.6	42.3
37.5°	279.0	264.7	229.3	180.5	117.7	86.5	70.9	58.2	48.8	42.3	41.3
40°	305.4	281.0	243.3	197.7	132.4	91.4	74.2	60.5	49.1	43.3	42.6
42.5°	336.6	316.1	262.8	202.0	143.1	103.4	79.7	63.1	51.1	44.6	43.9
45°	366.5	346.7	301.8	238.7	167.2	121.3	89.4	68.3	54.3	46.5	45.2
47.5°	420.8	400.0	337.6	276.4	200.3	149.3	109.0	76.4	58.9	48.5	46.8
50°	562.0	532.4	458.9	366.2	256.3	189.6	139.5	93.3	65.0	49.4	47.5
52.5°	744.1	698.9	619.2	500.9	366.5	268.3	195.5	135.6	75.8	49.8	46.8
55°	1039.4	983.8	855.7	682.7	513.2	400.4	296.0	208.5	111.6	52.0	46.5
57.5°	1319.5	1278.1	1166.3	934.1	680.7	508.7	389.3	293.4	151.9	57.2	48.8
60°	1525.3	1446.6	1315.9	1077.8	822.2	590.3	433.2	305.1	156.1	58.2	50.4
62.5°	1648.3	1551.0	1357.2	1098.6	842.3	607.2	450.8	280.7	126.2	56.9	52.7
63°	*1657.4*	*1563.0*	*1362.4*	*1091.5*	*835.8*	*602.6*	*448.2*	*274.8*	*122.6*	*56.6*	*53.3*
65°	1646.0	1564.0	1344.2	1054.1	780.5	562.3	417.3	246.8	99.5	55.6	54.0
67.5°	1532.8	1466.1	1248.9	952.9	695.0	485.6	345.4	188.3	77.7	53.0	52.4
70°	1283.0	1206.6	1009.5	787.7	550.9	392.2	275.5	146.0	64.1	50.4	49.8
72.5°	954.9	923.0	766.9	599.4	423.8	302.5	206.8	110.9	56.9	48.5	47.8
75°	772.1	724.3	608.2	473.5	322.3	224.7	153.5	83.3	52.0	46.8	46.2
77.5°	638.4	606.6	506.1	357.4	229.9	162.0	112.9	66.0	49.8	45.9	45.5
80°	494.3	474.5	394.8	264.4	164.6	120.7	89.4	60.5	48.8	45.5	45.2
82.5°	348.6	342.5	287.5	197.7	139.8	108.0	83.3	59.5	49.1	46.2	45.5
85°	288.8	275.5	242.0	188.0	132.7	103.4	80.3	58.5	49.1	45.9	45.5
87.5°	281.3	270.3	234.2	175.9	121.6	95.6	75.5	56.3	47.5	44.6	44.2
90°	254.3	243.3	209.8	157.1	114.5	89.8	70.6	53.3	45.5	43.3	42.6
92.5°	216.9	206.8	182.1	142.8	109.6	86.2	68.6	52.4	45.2	42.6	42.3
95°	188.3	179.9	159.7	131.4	101.1	80.3	65.0	50.4	43.9	41.6	41.3
97.5°	149.9	144.7	129.1	107.0	85.5	70.2	58.2	47.5	42.3	40.3	40.0
100°	132.0	127.5	115.1	96.9	79.4	66.3	56.3	46.5	41.0	39.4	39.0
102.5°	123.9	120.3	109.3	91.1	74.5	63.1	53.7	44.9	40.0	38.4	38.1
105°	117.7	114.5	104.4	86.8	70.2	58.9	50.4	42.9	38.4	37.1	36.8
107.5°	110.3	107.7	97.9	80.7	66.0	55.3	47.8	41.3	37.4	36.1	36.1

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

Scaled Data Report

REPORT NUMBER: P1046261
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	104.1	102.1	92.0	77.1	63.1	53.0	46.2	40.7	37.1	35.8	35.8
112.5°	97.6	95.3	85.9	72.5	60.5	51.4	44.9	39.7	36.4	35.1	35.1
115°	90.4	88.1	79.0	67.3	57.2	48.8	42.9	38.1	35.1	34.1	34.1
117.5°	91.7	85.9	74.8	64.4	54.6	46.8	41.6	37.4	34.1	33.5	33.2
120°	93.0	85.5	77.4	67.6	56.3	45.9	40.7	36.4	33.8	32.8	32.8
122.5°	90.7	91.7	84.6	69.6	53.7	44.9	40.3	36.8	34.1	33.2	33.5
125°	88.8	91.1	82.6	65.7	51.7	44.6	40.3	37.7	35.4	34.5	34.5
127.5°	81.6	82.0	70.2	58.9	50.4	43.6	40.0	38.1	36.1	34.8	34.1
130°	71.9	71.2	65.7	57.2	47.5	42.0	38.7	37.7	35.8	33.5	33.2
132.5°	77.1	75.1	66.0	54.3	44.9	40.3	38.4	37.1	33.8	31.2	30.9
135°	73.2	71.2	61.8	50.7	43.6	41.0	40.0	36.8	31.9	29.9	29.6
137.5°	66.7	63.4	55.6	48.5	44.2	42.6	40.3	36.1	31.2	28.9	28.6
140°	64.1	60.8	54.6	49.8	44.9	39.7	35.8	31.9	28.6	26.7	26.3
142.5°	67.3	64.7	58.5	49.8	42.0	36.4	32.8	30.2	27.3	24.4	24.1
145°	78.4	73.5	65.0	55.9	47.8	41.3	35.8	30.2	25.0	21.8	21.5
147.5°	86.8	82.9	73.8	63.4	52.0	41.6	33.5	26.7	22.4	20.5	20.2
150°	72.2	69.9	63.1	54.6	46.2	36.8	28.9	23.7	21.1	20.5	20.5
152.5°	50.4	48.8	46.5	41.0	34.5	28.9	24.7	22.1	21.1	20.8	20.8
155°	44.6	43.6	40.7	35.8	31.2	27.0	23.7	21.8	21.5	21.1	21.1
157.5°	38.4	38.1	36.1	32.2	28.6	25.4	23.1	22.1	21.5	21.1	21.1
160°	34.5	33.5	31.5	28.9	26.7	24.7	23.4	22.8	22.1	21.8	21.8
162.5°	32.2	31.5	29.3	27.3	26.0	25.7	26.0	25.7	24.1	23.1	22.8
165°	30.6	30.2	28.0	26.7	26.0	27.6	29.6	28.9	26.0	24.4	24.4
167.5°	30.6	29.9	27.6	26.7	28.3	30.6	32.2	31.9	29.3	27.6	26.7
170°	28.9	28.3	27.6	28.0	30.2	31.2	31.5	32.2	32.5	34.1	34.8
172.5°	28.0	28.0	28.6	29.9	31.9	32.2	31.2	31.5	34.5	38.1	38.4
175°	29.3	29.3	30.6	32.8	33.8	34.5	33.2	33.5	36.8	40.3	40.7
177.5°	28.0	28.3	28.9	29.3	28.9	28.0	27.6	28.9	28.0	27.6	28.6
180°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

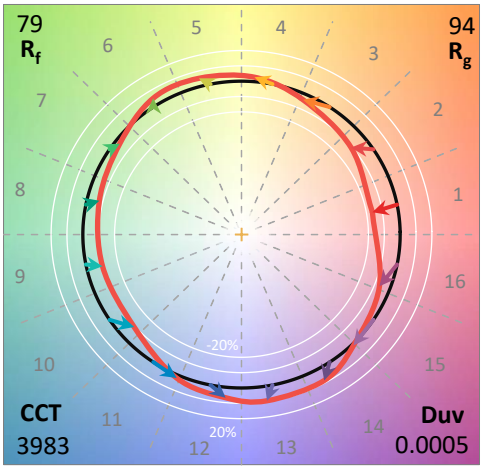
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-11
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-20-740-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):	3983	CRI (Ra):	76.2		
CIE u':	0.2252	R1:	72.6	R9:	-26.0
CIE v':	0.5025	R2:	84.0	R10:	63.7
Duv:	0.0005	R3:	93.4	R11:	72.4
CIE x:	0.3815	R4:	74.5	R12:	56.4
CIE y:	0.3785	R5:	73.8	R13:	75.0
CIE z:	0.2400	R6:	78.3	R14:	96.6
Peak Wavelength (nm):	448	R7:	81.1	R15:	64.5
Dominant Wavelength (nm):	578	R8:	52.1		
Purity:	28.07575				

Rf:	79
Rg:	94.1



Test Conditions

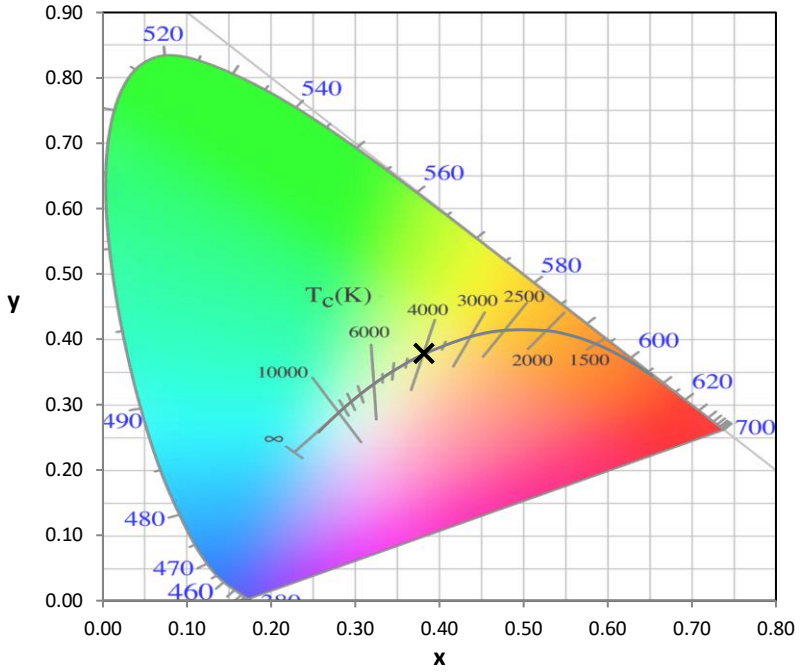
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

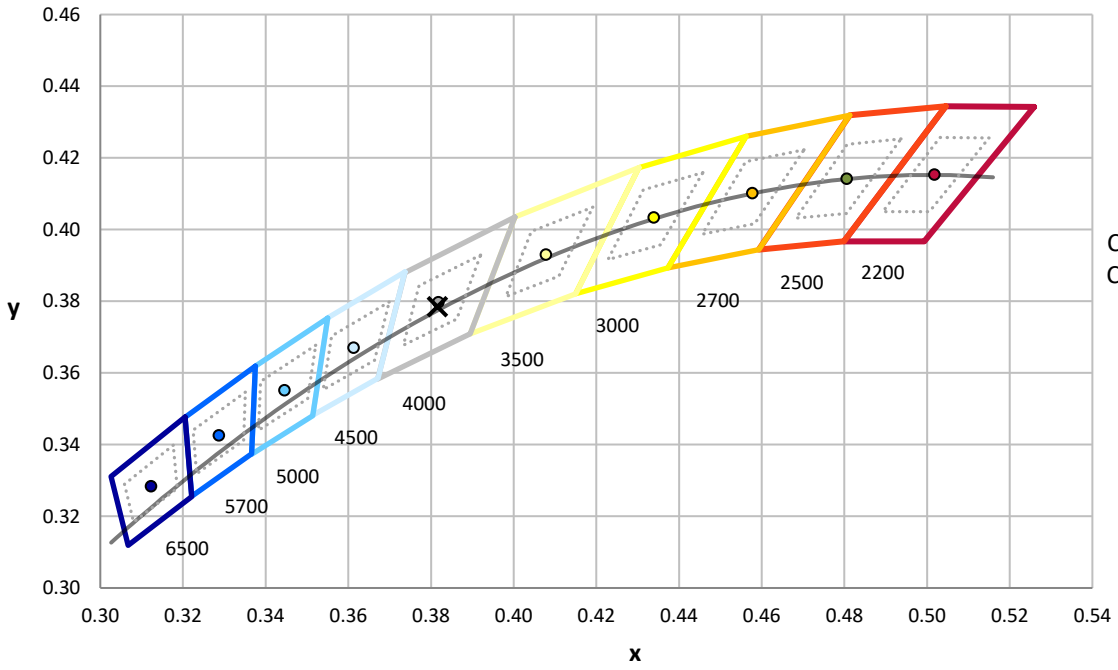
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-11

CIE 1931 Chromaticity Diagram



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

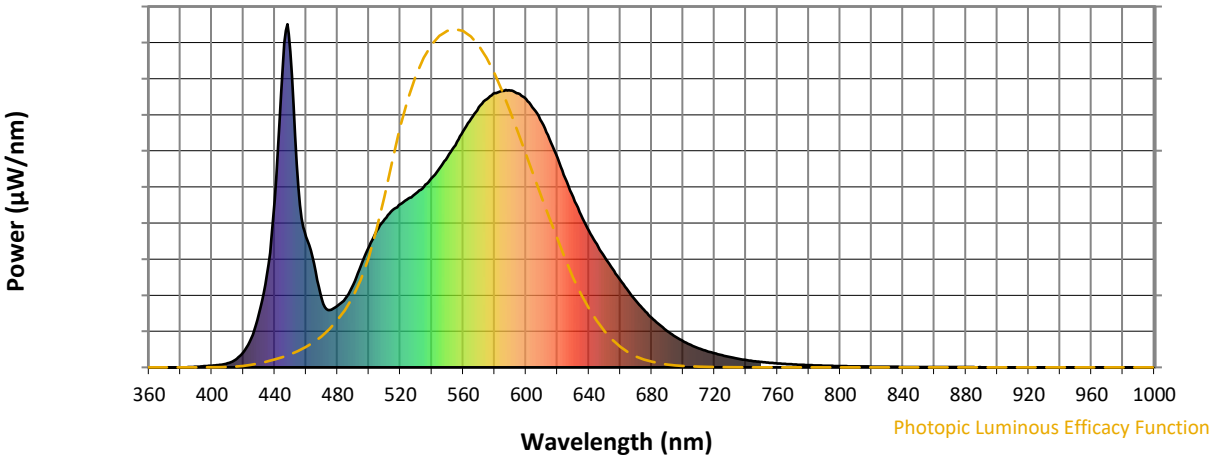


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

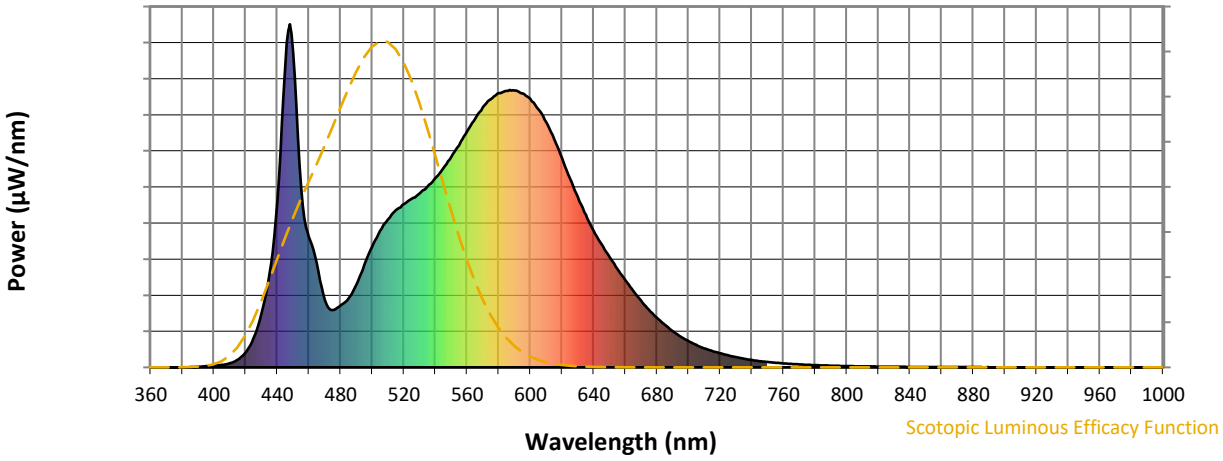


Photopic Lumens: NR

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Scotopic Flux vs. Wavelength

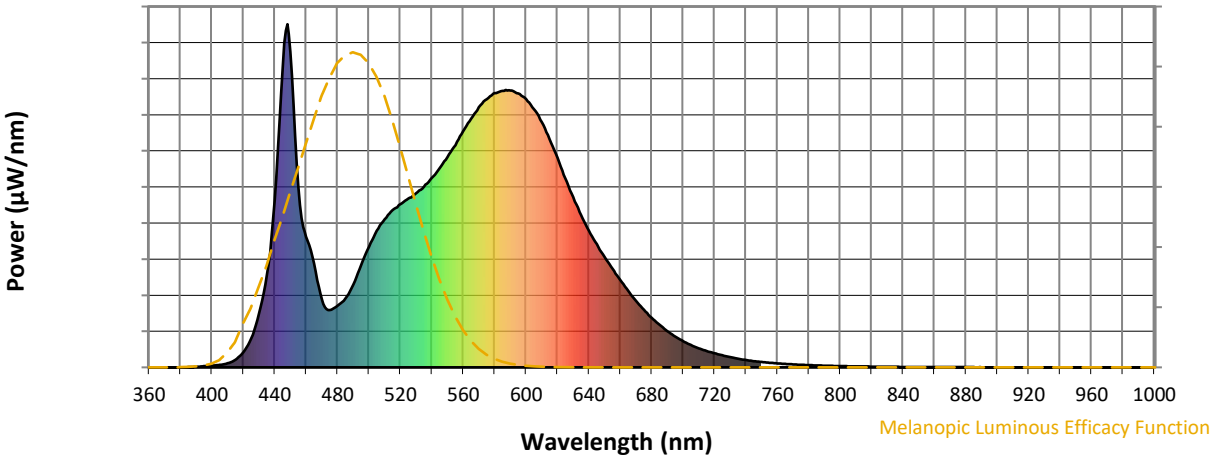


Scotopic Lumens: NR **S/P: 1.61**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.24**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

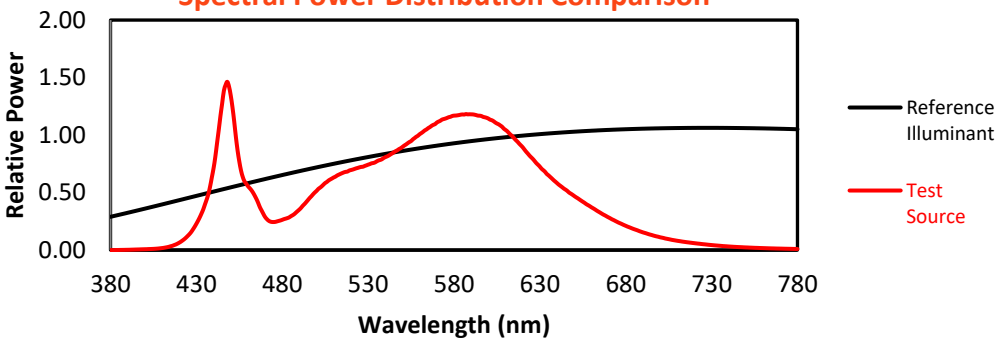
REPORT NUMBER: SP1-2501-332-11

TM-30-18

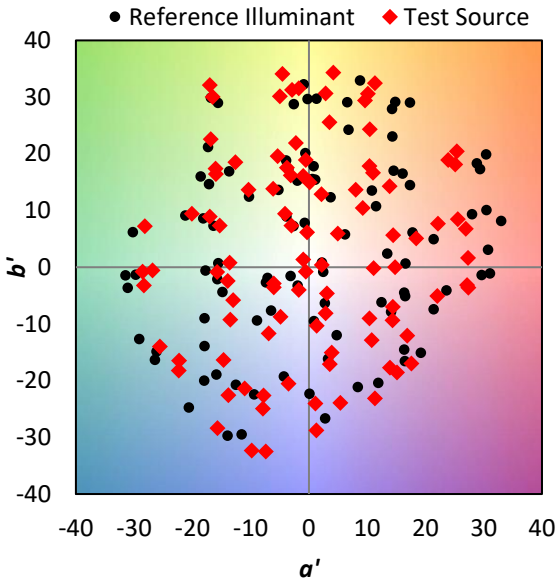
Summary

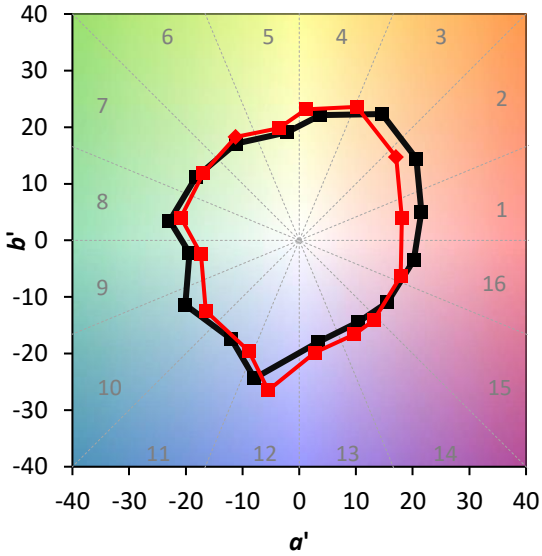
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

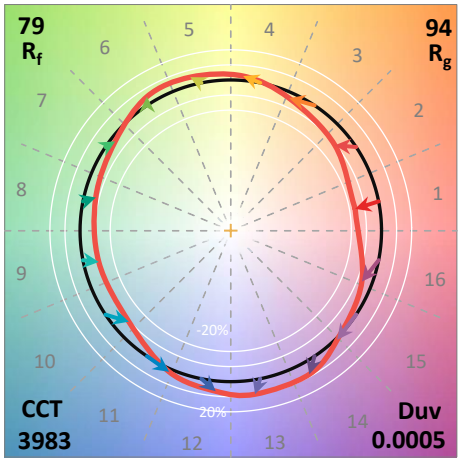
Spectral Power Distribution Comparison

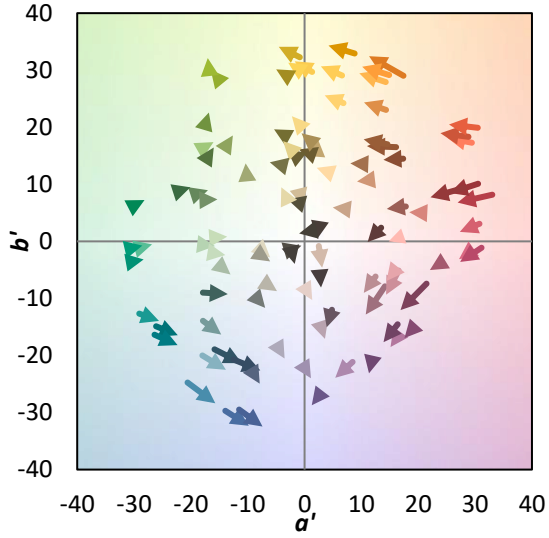


Color Vector Graphics







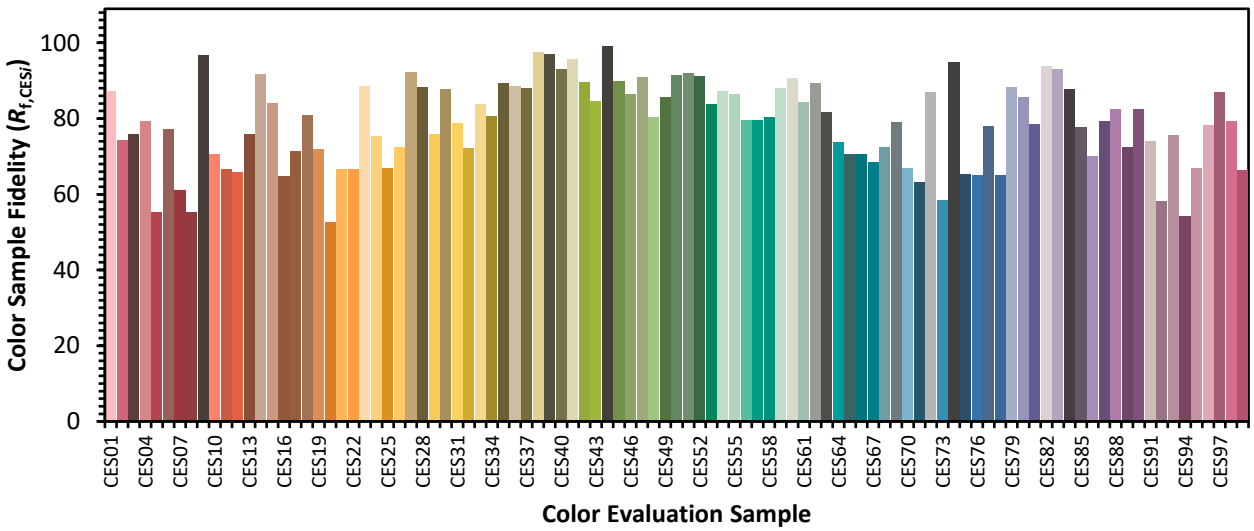


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

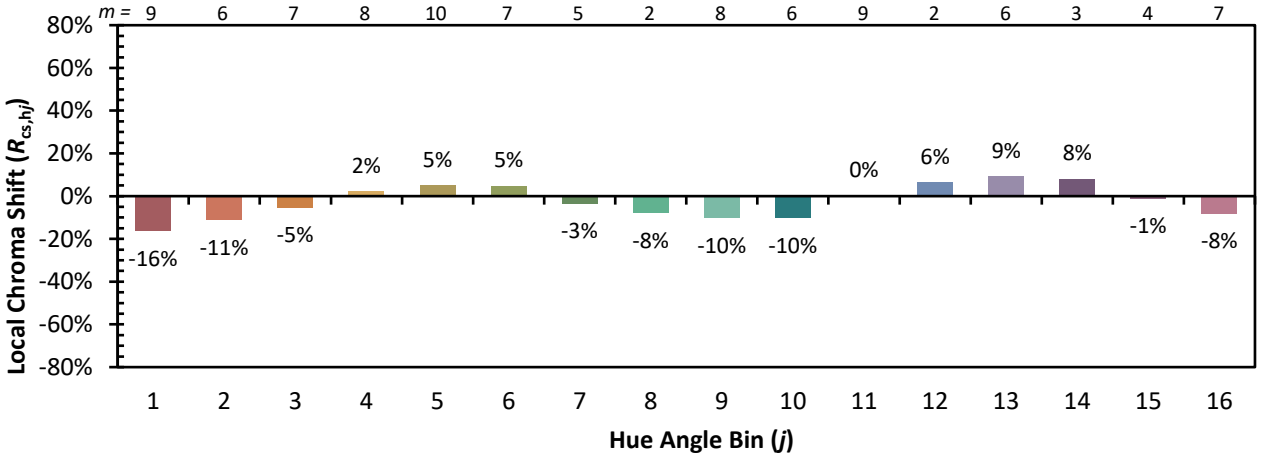
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 94
CES08 = 39	CES33 = 84	CES58 = 80	CES83 = 93
CES09 = 29	CES34 = 81	CES59 = 88	CES84 = 88
CES10 = 74	CES35 = 89	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 88	CES61 = 84	CES86 = 70
CES12 = 63	CES37 = 88	CES62 = 89	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 71	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 71	CES91 = 74
CES17 = 49	CES42 = 90	CES67 = 68	CES92 = 58
CES18 = 56	CES43 = 85	CES68 = 72	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 54
CES20 = 65	CES45 = 90	CES70 = 67	CES95 = 67
CES21 = 86	CES46 = 87	CES71 = 63	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 87	CES97 = 87
CES23 = 91	CES48 = 80	CES73 = 58	CES98 = 79
CES24 = 91	CES49 = 86	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 92	CES75 = 65	

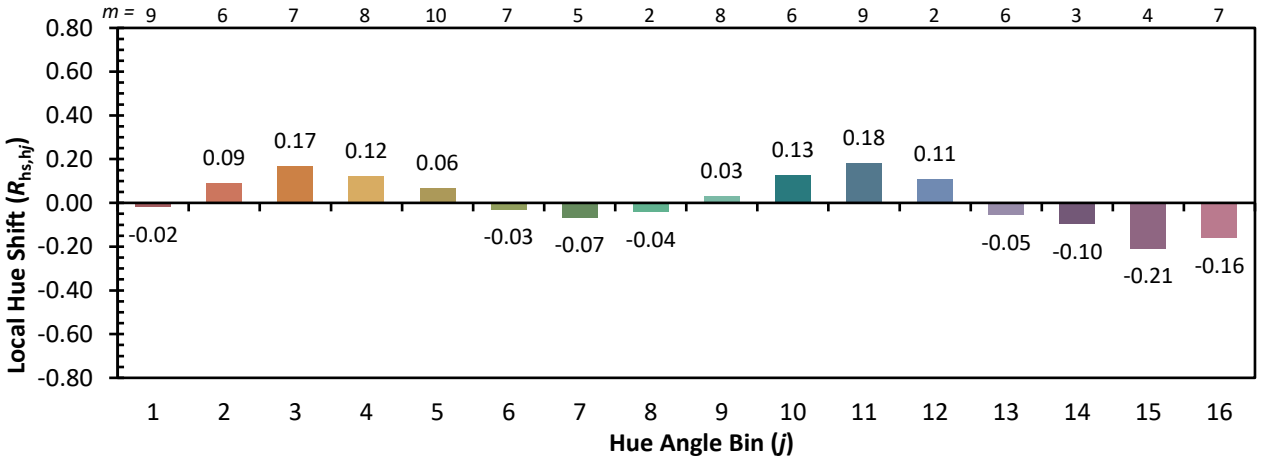


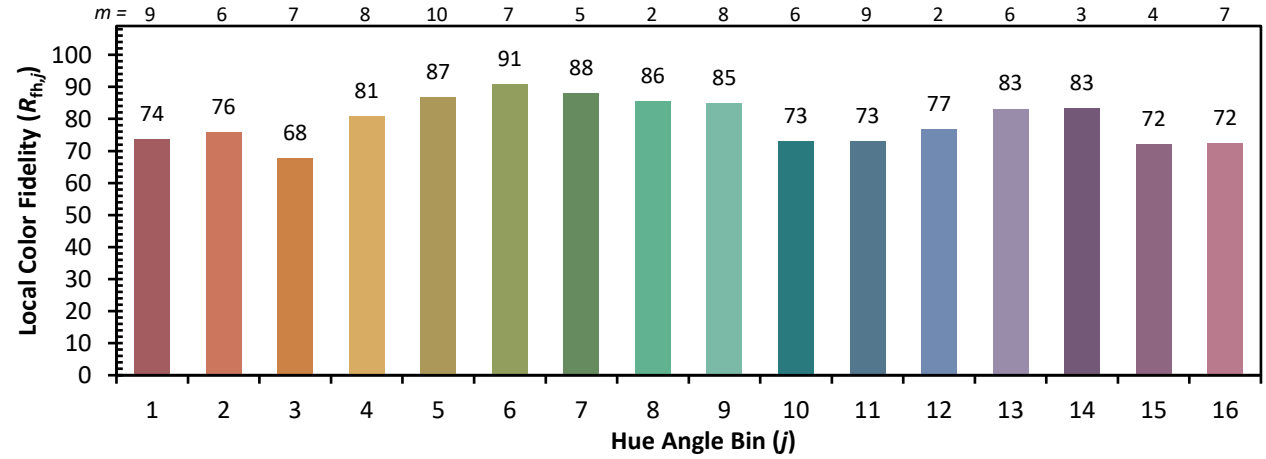
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Color Rendition by Hue-Angle Bin



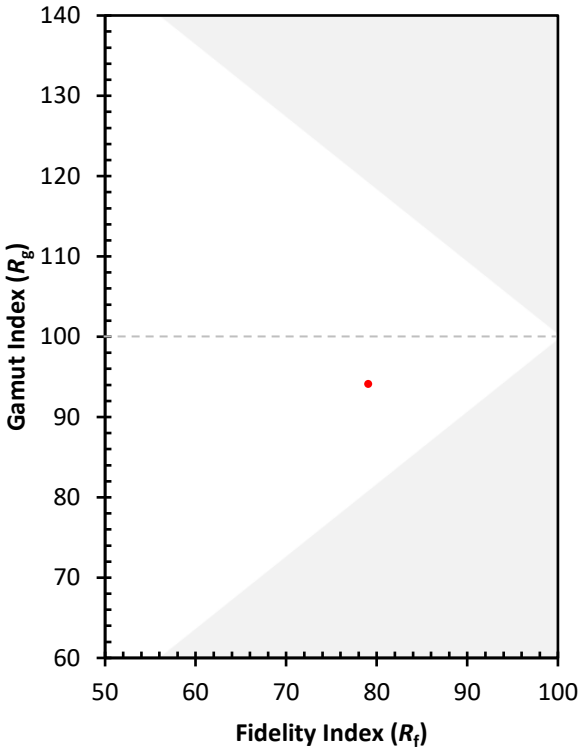


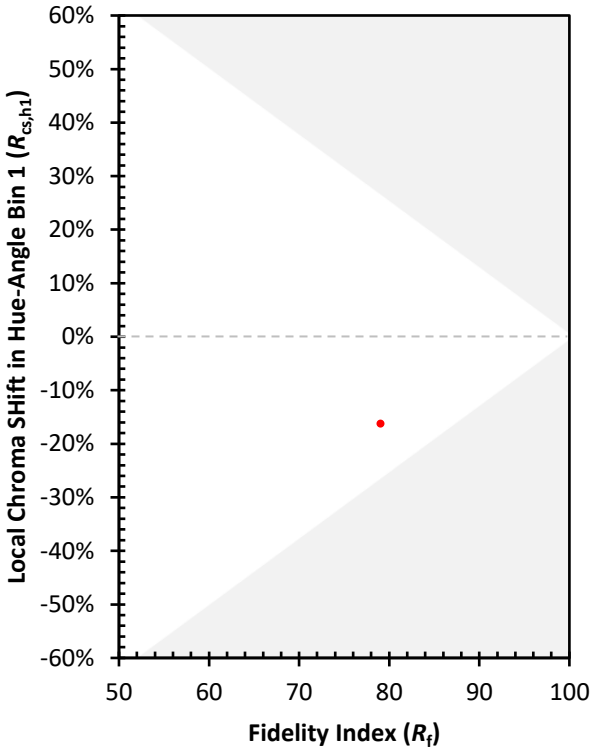


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Measure Comparisons





(END OF REPORT)