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: P1046252

Luminaire Tested: **FFX-CLB-30-730-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:	P1046252
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-730-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4343.4 lumens
Efficiency:	N/A
Efficacy:	141.9 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):	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

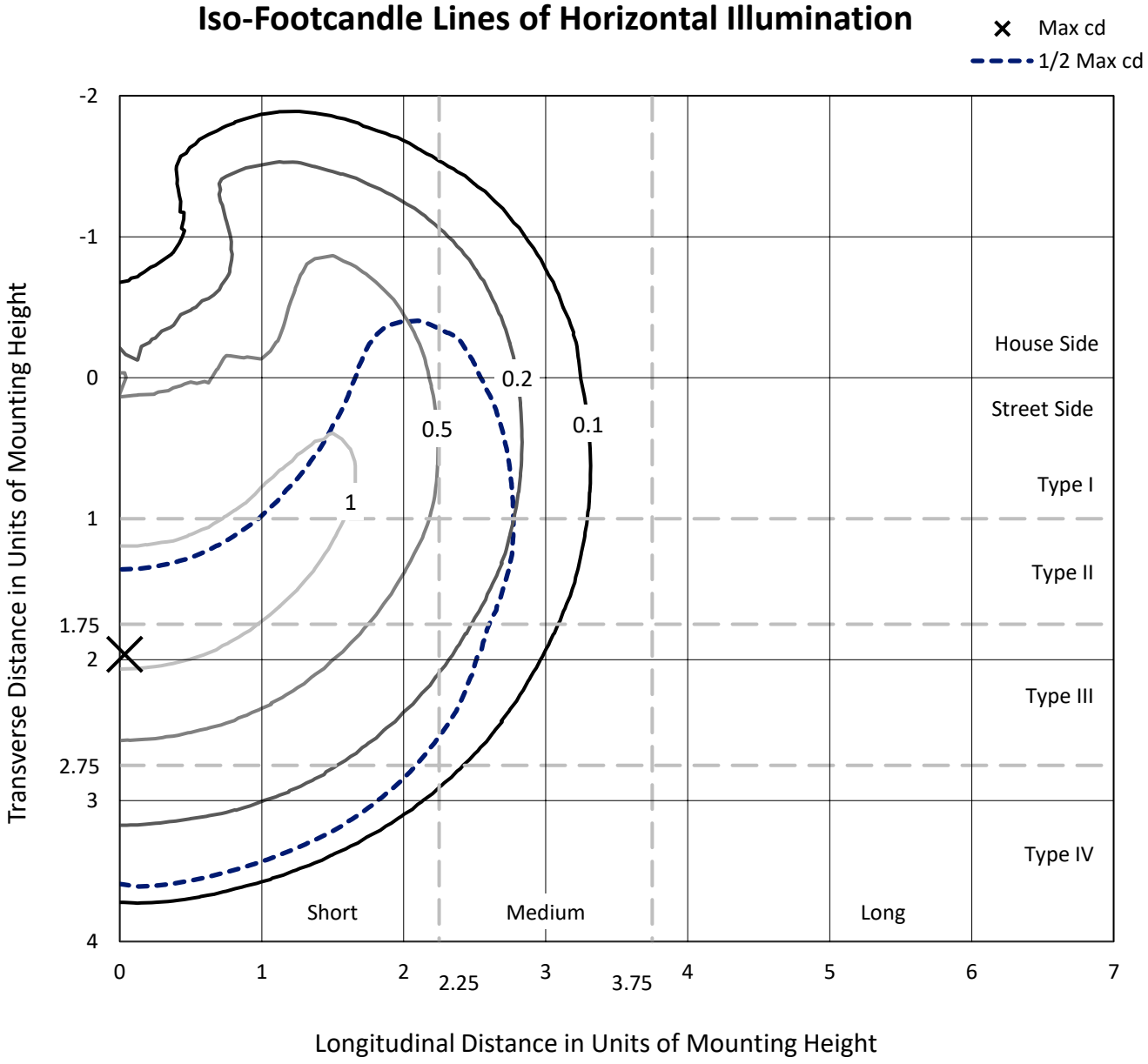


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Iso-Footcandle Lines of Horizontal Illumination



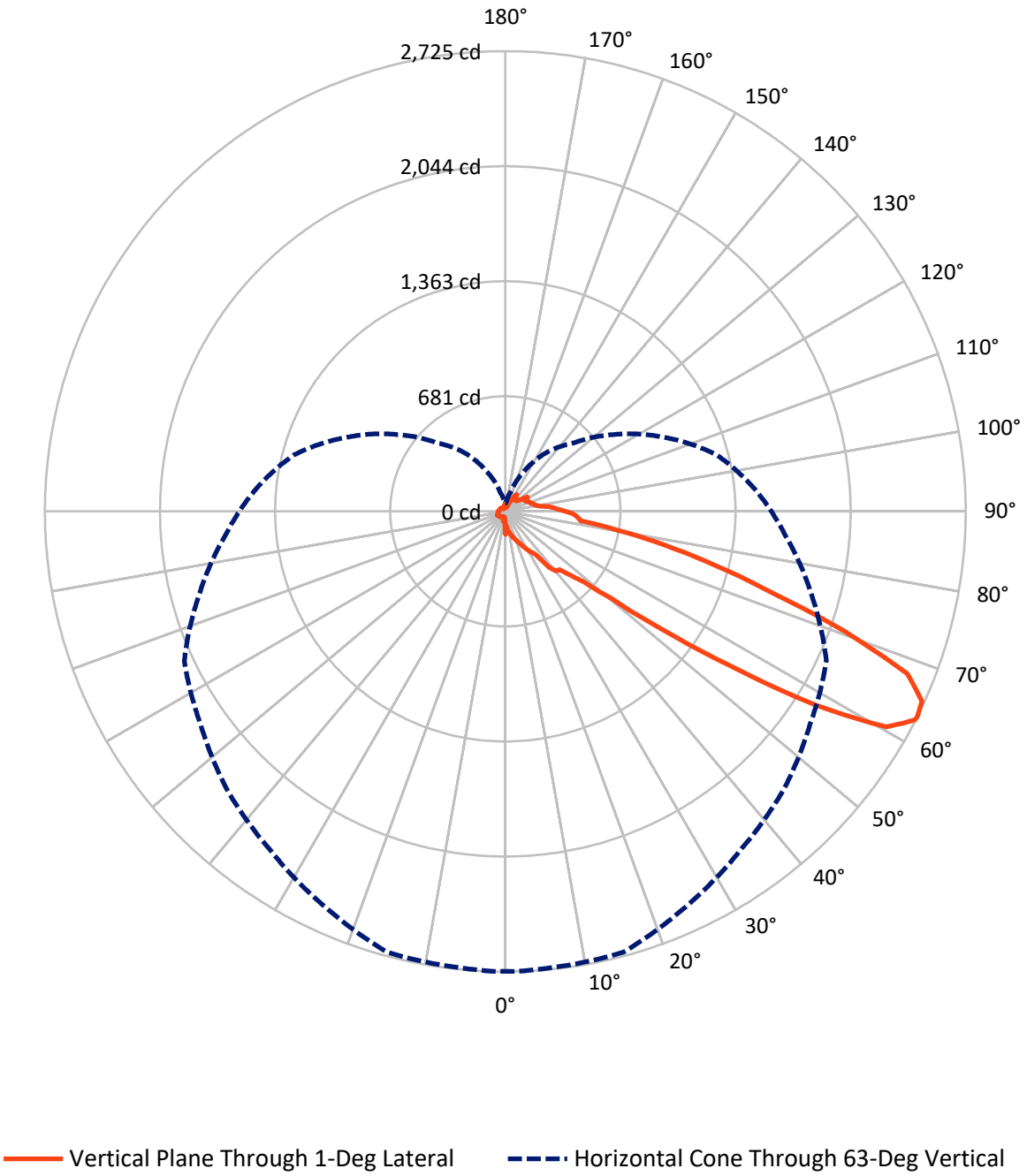
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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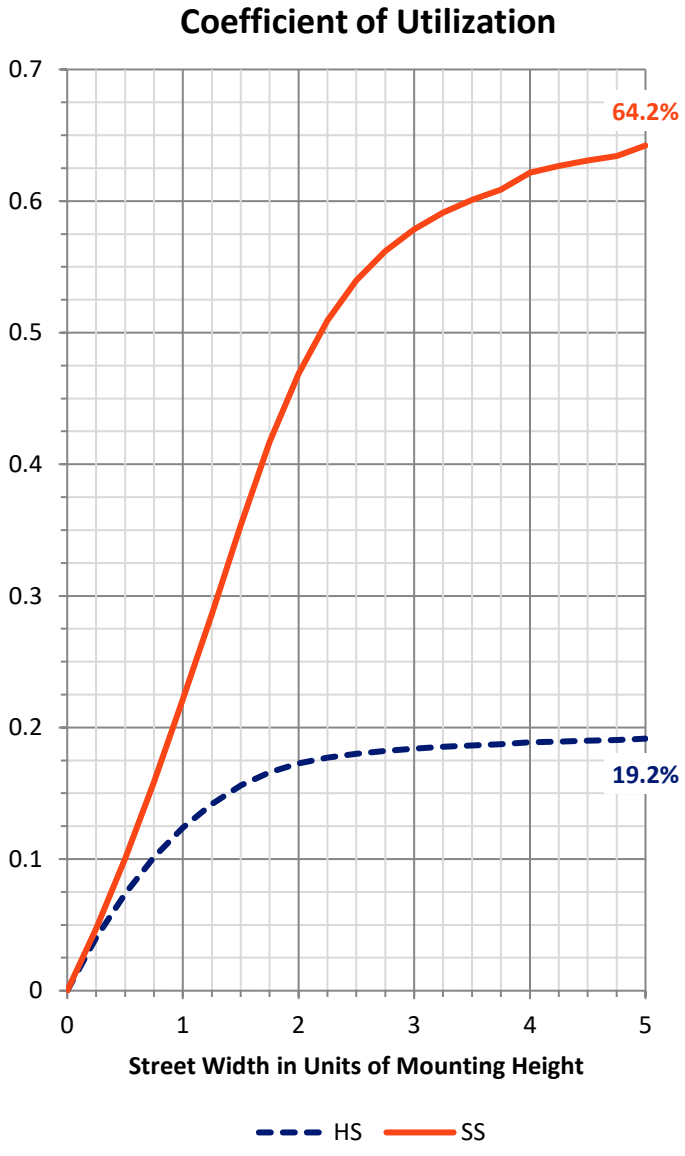
REPORT NUMBER: P1046252
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	860.0	172.3	1032.2
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	2913.4	397.7	3311.1
	% Fixture	67.1	9.2	76.2
Total	Lumens	3773.4	570.0	4343.4
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.2
10°-20°	28.6	0.7
20°-30°	63.0	1.5
30°-40°	129.0	3.0
40°-50°	260.4	6.0
50°-60°	840.7	19.4
60°-70°	1385.1	31.9
70°-80°	763.5	17.6
80°-90°	295.0	6.8
90°-100°	176.9	4.1
100°-110°	112.7	2.6
110°-120°	86.1	2.0
120°-130°	73.5	1.7
130°-140°	49.3	1.1
140°-150°	42.0	1.0
150°-160°	19.1	0.4
160°-170°	7.7	0.2
170°-180°	2.6	0.1
0°-90°	3773.4	86.9
0°-180°	4343.4	100.0



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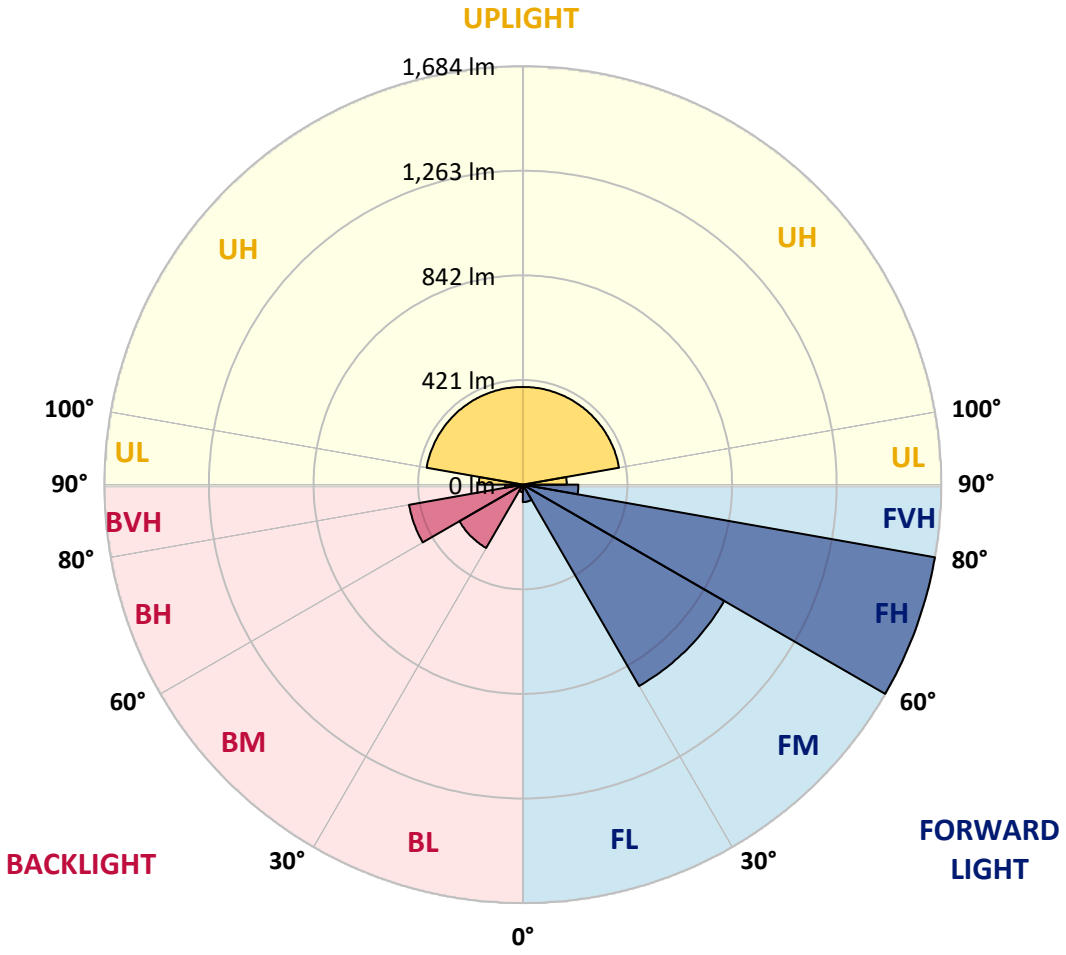
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	70.4	1.6			
FM	(30°-60°)	935.7	21.5			
FH	(60°-80°)	1683.8	38.8			G1/1800
FVH	(80°-90°)	223.5	5.1			G2/225
BL	(0°-30°)	29.3	0.7	B0/110		
BM	(30°-60°)	294.4	6.8	B1/1000		
BH	(60°-80°)	464.8	10.7	B1/500		G1/500
BVH	(80°-90°)	71.5	1.6			G1/100
UL	(90°-100°)	176.9	4.1		U3/500	
UH	(100°-180°)	393.1	9.1		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	137.5	137.5	137.5	137.5	137.5	137.5	137.5	137.5	137.5	137.5	137.5
2.5°	85.0	84.0	88.1	100.4	114.0	118.3	109.4	106.0	115.9	138.7	141.2
5°	97.9	99.5	98.6	100.1	101.3	110.9	119.6	110.6	89.6	73.2	74.5
7.5°	115.6	115.2	115.2	114.0	107.8	97.9	95.2	102.3	102.6	85.9	72.9
10°	123.3	123.0	123.0	121.7	120.5	121.4	118.3	105.4	94.9	88.1	83.7
12.5°	139.7	139.0	138.7	138.1	135.9	133.5	131.3	131.9	123.0	106.0	94.9
15°	153.2	152.6	153.2	153.9	152.3	148.0	141.8	133.2	125.1	118.0	108.1
17.5°	168.1	167.8	167.5	166.8	164.7	158.8	151.4	143.4	134.4	124.5	115.2
20°	182.3	181.7	182.0	182.3	181.4	174.3	166.8	157.0	147.4	137.8	127.0
22.5°	199.3	199.3	198.4	198.4	197.4	193.1	183.8	172.4	162.5	150.5	138.4
25°	221.2	220.3	220.3	219.4	215.7	211.0	204.5	191.6	179.8	168.4	152.3
27.5°	242.8	241.9	241.9	241.6	237.0	230.8	220.0	207.6	196.5	182.0	162.5
30°	267.6	266.9	267.3	263.9	260.2	251.5	237.9	223.7	209.2	192.2	173.3
32.5°	292.6	290.7	290.4	286.7	281.8	271.3	256.1	242.5	227.4	207.6	191.9
35°	321.9	317.9	322.3	321.3	320.7	309.6	292.3	276.5	258.6	240.7	223.7
37.5°	419.0	420.8	419.9	407.5	397.6	382.5	374.8	356.2	331.5	309.6	277.5
40°	464.7	464.1	462.5	448.9	440.0	424.2	411.9	397.9	383.4	349.1	309.3
42.5°	474.6	471.2	473.6	486.3	498.1	487.5	448.3	403.5	383.1	359.0	338.3
45°	546.9	538.2	541.9	545.3	533.9	518.8	501.8	472.7	438.4	403.8	365.8
47.5°	624.1	619.5	619.2	617.9	619.2	604.6	582.1	555.2	506.7	469.3	427.0
50°	812.3	806.1	807.9	809.5	803.0	788.2	763.8	746.2	688.1	616.4	561.4
52.5°	1157.4	1153.7	1145.0	1145.6	1087.3	1084.2	1051.1	1035.3	949.8	867.9	757.0
55°	1583.5	1607.6	1581.0	1575.7	1551.6	1530.0	1447.2	1378.6	1256.0	1138.2	1008.2
57.5°	2160.6	2164.6	2130.9	2131.9	2046.3	1991.9	1915.6	1810.5	1627.9	1458.0	1312.2
60°	2581.1	2591.3	2575.5	2542.8	2377.2	2279.9	2195.8	2113.0	1973.7	1721.3	1518.3
62.5°	2718.0	2721.1	2711.2	2693.9	2547.7	2423.5	2315.4	2195.2	2088.3	1860.9	1657.0
63°	2722.9	2725.1	2717.4	2702.5	2566.9	2438.1	2329.9	2201.4	2096.6	1873.3	1665.3
65°	2709.6	2710.6	2707.2	2687.4	2578.9	2442.7	2323.7	2197.1	2101.0	1878.2	1665.3
67.5°	2590.1	2566.6	2576.5	2543.1	2452.9	2317.3	2203.6	2074.4	1987.9	1772.5	1568.6
70°	2130.9	2132.5	2130.9	2112.7	2087.1	1979.9	1847.0	1730.8	1621.5	1452.5	1292.4
72.5°	1648.6	1655.1	1640.9	1651.4	1630.7	1542.1	1456.2	1338.4	1261.5	1118.2	977.0
75°	1277.0	1290.2	1294.6	1264.6	1246.7	1227.8	1180.9	1096.2	1019.3	908.4	785.1
77.5°	964.9	967.4	971.1	950.7	927.2	934.6	927.8	887.7	823.1	741.5	643.6
80°	666.8	673.9	685.9	674.2	676.9	672.6	671.7	639.6	592.9	541.6	489.1
82.5°	448.0	447.7	450.8	469.6	486.9	486.3	458.8	413.7	389.9	375.1	345.4
85°	428.8	428.8	433.2	419.6	410.9	402.3	400.4	385.0	366.7	333.4	292.3
87.5°	399.8	398.9	400.1	388.4	376.9	374.2	371.4	358.1	350.1	321.0	283.3
90°	342.0	344.5	344.5	343.6	336.5	333.7	322.6	311.4	306.5	280.2	250.6
92.5°	301.9	301.9	305.3	299.4	291.7	296.0	276.8	262.3	255.5	237.9	214.4
95°	272.8	271.9	276.2	267.9	262.3	254.3	246.2	231.1	226.2	211.0	187.2
97.5°	217.8	216.9	219.4	215.3	206.7	203.0	194.3	182.3	177.7	163.4	148.9
100°	187.5	187.2	188.2	186.0	181.1	176.4	169.0	159.4	155.1	143.4	130.4
102.5°	178.0	177.0	177.3	177.7	170.5	166.2	159.1	151.7	147.4	137.8	123.6
105°	169.3	168.7	168.1	168.1	160.0	155.7	151.1	146.1	142.4	131.9	118.3
107.5°	161.3	160.4	158.2	157.9	152.6	148.0	142.4	138.1	134.4	124.8	111.8

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	152.3	*152.0*	150.8	151.1	147.7	140.6	135.9	130.7	126.1	117.7	106.3
112.5°	147.7	*147.7*	146.8	148.3	135.3	128.2	123.3	118.6	115.6	107.5	98.9
115°	142.7	*140.3*	139.3	142.4	127.6	117.7	112.8	107.8	104.7	96.7	89.6
117.5°	132.2	*131.6*	131.9	134.4	130.1	119.3	111.2	105.0	102.0	96.1	89.6
120°	150.8	*150.2*	146.5	145.8	138.4	129.8	124.5	121.1	116.5	106.9	94.5
122.5°	157.6	*156.3*	150.5	152.3	142.4	138.1	135.9	134.7	130.4	117.7	98.9
125°	137.2	*135.3*	133.8	134.4	128.8	123.3	121.1	119.3	114.9	107.8	94.2
127.5°	110.0	*110.9*	109.7	106.3	105.4	97.0	94.2	92.1	88.1	82.2	80.0
130°	103.2	*102.6*	102.3	101.7	101.0	94.9	90.5	85.3	81.9	76.9	71.1
132.5°	91.8	*92.4*	93.3	98.6	103.5	98.3	87.1	79.1	76.9	77.9	75.4
135°	87.1	*87.4*	87.4	91.5	95.8	90.5	82.2	74.5	73.5	76.9	73.8
137.5°	89.3	*90.8*	90.5	89.6	87.1	83.4	81.6	77.2	74.8	72.6	67.4
140°	94.2	*96.1*	95.2	89.9	88.1	86.2	87.4	85.9	79.7	72.3	64.6
142.5°	93.6	*95.2*	94.5	93.9	97.3	93.0	87.1	81.3	76.3	72.3	67.4
145°	121.4	*120.8*	118.3	118.3	114.3	107.8	103.8	97.6	91.8	86.5	78.5
147.5°	112.2	*113.7*	114.3	111.5	109.7	105.4	104.7	101.3	99.5	94.9	86.5
150°	89.0	*90.2*	88.4	86.2	85.3	85.6	84.0	81.6	79.7	76.3	72.6
152.5°	61.5	*62.1*	61.5	59.6	59.0	58.1	58.4	56.5	55.3	53.1	49.7
155°	55.9	*56.2*	56.5	53.5	52.8	53.1	53.5	52.2	49.7	47.9	43.9
157.5°	43.9	*43.3*	43.3	42.6	42.9	42.0	42.0	41.7	40.8	39.5	38.3
160°	34.9	*35.2*	35.2	35.2	35.8	35.2	35.2	34.3	34.3	33.7	33.1
162.5°	29.7	*29.7*	29.7	29.7	29.4	29.4	30.0	29.7	29.7	30.0	30.6
165°	25.0	*25.3*	25.3	25.3	25.3	25.3	26.0	26.0	26.6	27.8	29.4
167.5°	23.5	*23.2*	23.2	23.5	23.5	24.1	24.1	25.3	27.5	29.7	29.7
170°	22.2	*22.2*	22.2	22.6	22.6	22.9	23.8	26.0	28.4	29.4	28.1
172.5°	23.2	*22.9*	22.9	23.2	23.2	24.1	25.3	27.2	28.1	28.1	26.9
175°	23.8	*23.5*	23.5	23.8	23.8	24.4	25.6	26.9	27.5	27.8	27.8
177.5°	23.2	*23.2*	23.2	23.2	23.2	23.5	23.5	24.4	25.0	25.6	26.3
180°	22.2	*22.2*	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	137.5	137.5	137.5	137.5	137.5	137.5	137.5	137.5	137.5	137.5	137.5
2.5°	141.2	128.8	110.6	88.4	102.9	120.8	118.3	104.4	83.4	62.7	62.7
5°	78.2	82.8	87.4	76.6	68.6	68.0	66.1	59.3	58.4	48.2	45.4
7.5°	68.3	64.0	63.0	74.5	73.5	48.5	38.3	34.0	35.8	48.5	50.1
10°	81.9	80.0	74.2	61.8	51.6	47.0	46.7	47.3	43.3	34.9	32.8
12.5°	92.4	89.3	84.0	80.3	68.6	54.7	47.0	43.6	46.0	58.4	61.2
15°	102.6	98.3	89.3	79.1	67.4	57.2	49.1	42.0	42.0	40.2	39.2
17.5°	110.6	105.0	94.2	83.1	69.8	57.2	46.7	39.5	36.1	35.5	35.5
20°	120.8	115.6	103.8	90.2	73.5	57.8	46.3	39.5	35.5	34.0	33.7
22.5°	133.5	126.7	111.5	95.5	75.7	58.4	47.0	39.9	35.8	33.7	33.1
25°	145.2	137.5	119.6	102.9	80.6	59.9	47.6	40.8	36.5	34.0	33.7
27.5°	154.8	146.5	129.8	110.6	85.9	63.6	50.7	42.6	37.4	34.9	34.3
30°	165.6	157.9	140.3	118.6	90.8	68.3	55.0	46.0	40.2	36.8	36.5
32.5°	181.7	172.1	151.7	127.0	96.7	73.2	59.3	49.1	42.0	40.2	40.2
35°	210.7	200.8	173.9	140.6	102.3	78.2	63.6	52.5	44.8	40.5	40.2
37.5°	265.1	251.5	217.8	171.5	111.8	82.2	67.4	55.3	46.3	40.2	39.2
40°	290.1	266.9	231.1	187.9	125.7	86.8	70.4	57.5	46.7	41.1	40.5
42.5°	319.8	300.3	249.6	191.9	135.9	98.3	75.7	59.9	48.5	42.3	41.7
45°	348.2	329.4	286.7	226.8	158.8	115.2	85.0	64.9	51.6	44.2	42.9
47.5°	399.8	380.0	320.7	262.6	190.3	141.8	103.5	72.6	55.9	46.0	44.5
50°	533.9	505.8	436.0	347.9	243.5	180.1	132.5	88.7	61.8	47.0	45.1
52.5°	706.9	664.0	588.3	475.8	348.2	254.9	185.7	128.8	72.0	47.3	44.5
55°	987.5	934.6	812.9	648.5	487.5	380.3	281.2	198.0	106.0	49.4	44.2
57.5°	1253.5	1214.2	1108.0	887.4	646.7	483.2	369.8	278.7	144.3	54.4	46.3
60°	1449.1	1374.3	1250.1	1023.9	781.1	560.8	411.5	289.8	148.3	55.3	47.9
62.5°	1565.8	1473.5	1289.3	1043.7	800.2	576.8	428.2	266.6	119.9	54.1	50.1
63°	*1574.5*	*1484.9*	*1294.3*	*1036.9*	*794.0*	*572.5*	*425.8*	*261.1*	*116.5*	*53.8*	*50.7*
65°	1563.7	1485.8	1277.0	1001.4	741.5	534.2	396.4	234.5	94.5	52.8	51.3
67.5°	1456.2	1392.8	1186.4	905.3	660.3	461.3	328.1	178.9	73.8	50.4	49.7
70°	1218.9	1146.3	959.0	748.3	523.4	372.6	261.7	138.7	60.9	47.9	47.3
72.5°	907.1	876.8	728.5	569.4	402.6	287.3	196.5	105.4	54.1	46.0	45.4
75°	733.5	688.1	577.8	449.9	306.2	213.5	145.8	79.1	49.4	44.5	43.9
77.5°	606.5	576.2	480.8	339.6	218.4	153.9	107.2	62.7	47.3	43.6	43.3
80°	469.6	450.8	375.1	251.2	156.3	114.6	85.0	57.5	46.3	43.3	42.9
82.5°	331.2	325.3	273.1	187.9	132.9	102.6	79.1	56.5	46.7	43.9	43.3
85°	274.4	261.7	229.9	178.6	126.1	98.3	76.3	55.6	46.7	43.6	43.3
87.5°	267.3	256.8	222.5	167.2	115.6	90.8	71.7	53.5	45.1	42.3	42.0
90°	241.6	231.1	199.3	149.2	108.8	85.3	67.0	50.7	43.3	41.1	40.5
92.5°	206.1	196.5	173.0	135.6	104.1	81.9	65.2	49.7	42.9	40.5	40.2
95°	178.9	170.9	151.7	124.8	96.1	76.3	61.8	47.9	41.7	39.5	39.2
97.5°	142.4	137.5	122.7	101.7	81.3	66.7	55.3	45.1	40.2	38.3	38.0
100°	125.4	121.1	109.4	92.1	75.4	63.0	53.5	44.2	38.9	37.4	37.1
102.5°	117.7	114.3	103.8	86.5	70.8	59.9	51.0	42.6	38.0	36.5	36.1
105°	111.8	108.8	99.2	82.5	66.7	55.9	47.9	40.8	36.5	35.2	34.9
107.5°	104.7	102.3	93.0	76.6	62.7	52.5	45.4	39.2	35.5	34.3	34.3

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

Scaled Data Report

REPORT NUMBER: P1046252
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	98.9	97.0	87.4	73.2	59.9	50.4	43.9	38.6	35.2	34.0	34.0
112.5°	92.7	90.5	81.6	68.9	57.5	48.8	42.6	37.7	34.6	33.4	33.4
115°	85.9	83.7	75.1	64.0	54.4	46.3	40.8	36.1	33.4	32.4	32.4
117.5°	87.1	81.6	71.1	61.2	51.9	44.5	39.5	35.5	32.4	31.8	31.5
120°	88.4	81.3	73.5	64.3	53.5	43.6	38.6	34.6	32.1	31.2	31.2
122.5°	86.2	87.1	80.3	66.1	51.0	42.6	38.3	34.9	32.4	31.5	31.8
125°	84.3	86.5	78.5	62.4	49.1	42.3	38.3	35.8	33.7	32.8	32.8
127.5°	77.6	77.9	66.7	55.9	47.9	41.4	38.0	36.1	34.3	33.1	32.4
130°	68.3	67.7	62.4	54.4	45.1	39.9	36.8	35.8	34.0	31.8	31.5
132.5°	73.2	71.4	62.7	51.6	42.6	38.3	36.5	35.2	32.1	29.7	29.4
135°	69.5	67.7	58.7	48.2	41.4	38.9	38.0	34.9	30.3	28.4	28.1
137.5°	63.3	60.2	52.8	46.0	42.0	40.5	38.3	34.3	29.7	27.5	27.2
140°	60.9	57.8	51.9	47.3	42.6	37.7	34.0	30.3	27.2	25.3	25.0
142.5°	64.0	61.5	55.6	47.3	39.9	34.6	31.2	28.7	26.0	23.2	22.9
145°	74.5	69.8	61.8	53.1	45.4	39.2	34.0	28.7	23.8	20.7	20.4
147.5°	82.5	78.8	70.1	60.2	49.4	39.5	31.8	25.3	21.3	19.5	19.2
150°	68.6	66.4	59.9	51.9	43.9	34.9	27.5	22.6	20.1	19.5	19.5
152.5°	47.9	46.3	44.2	38.9	32.8	27.5	23.5	21.0	20.1	19.8	19.8
155°	42.3	41.4	38.6	34.0	29.7	25.6	22.6	20.7	20.4	20.1	20.1
157.5°	36.5	36.1	34.3	30.6	27.2	24.1	21.9	21.0	20.4	20.1	20.1
160°	32.8	31.8	30.0	27.5	25.3	23.5	22.2	21.6	21.0	20.7	20.7
162.5°	30.6	30.0	27.8	26.0	24.7	24.4	24.7	24.4	22.9	21.9	21.6
165°	29.0	28.7	26.6	25.3	24.7	26.3	28.1	27.5	24.7	23.2	23.2
167.5°	29.0	28.4	26.3	25.3	26.9	29.0	30.6	30.3	27.8	26.3	25.3
170°	27.5	26.9	26.3	26.6	28.7	29.7	30.0	30.6	30.9	32.4	33.1
172.5°	26.6	26.6	27.2	28.4	30.3	30.6	29.7	30.0	32.8	36.1	36.5
175°	27.8	27.8	29.0	31.2	32.1	32.8	31.5	31.8	34.9	38.3	38.6
177.5°	26.6	26.9	27.5	27.8	27.5	26.6	26.3	27.5	26.6	26.3	27.2
180°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

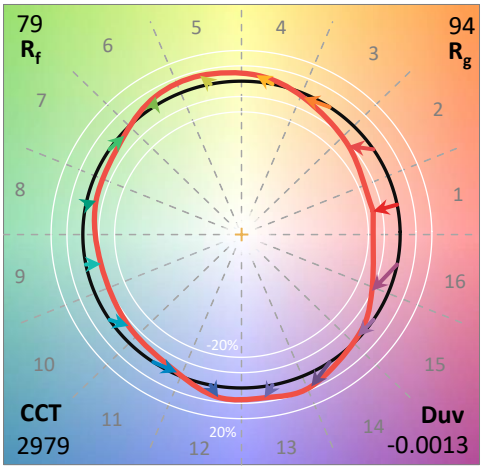
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-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):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

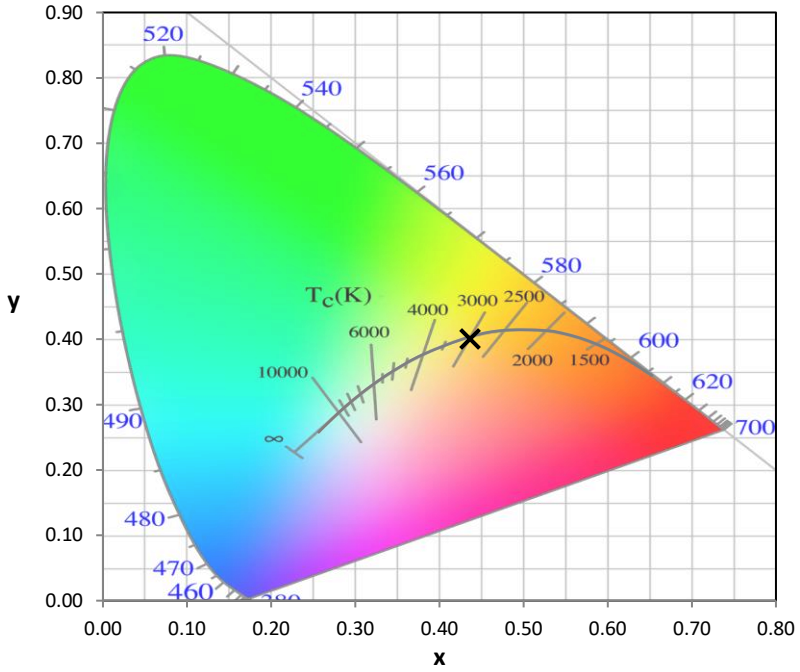
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

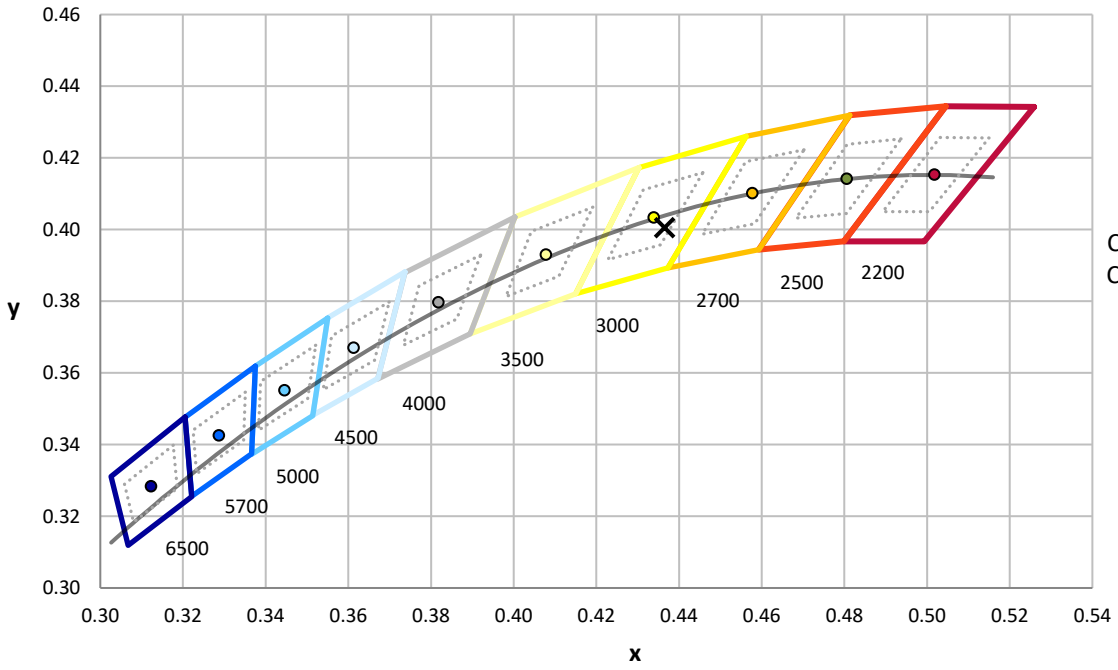
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

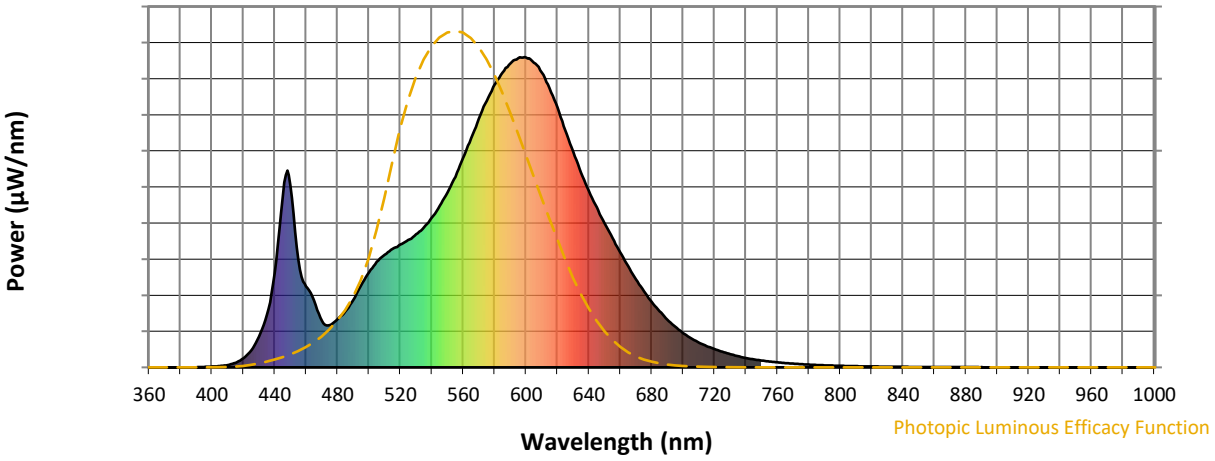


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

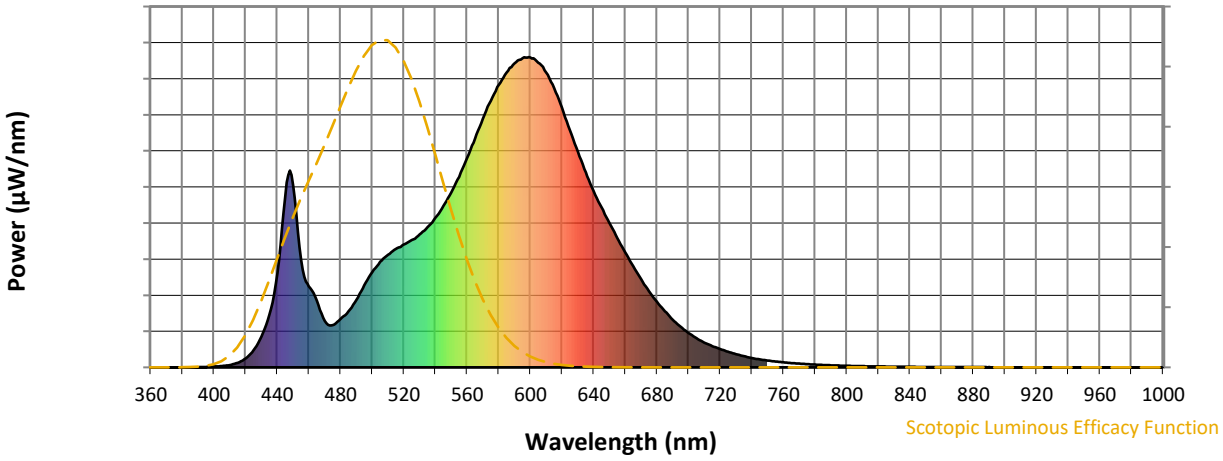


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

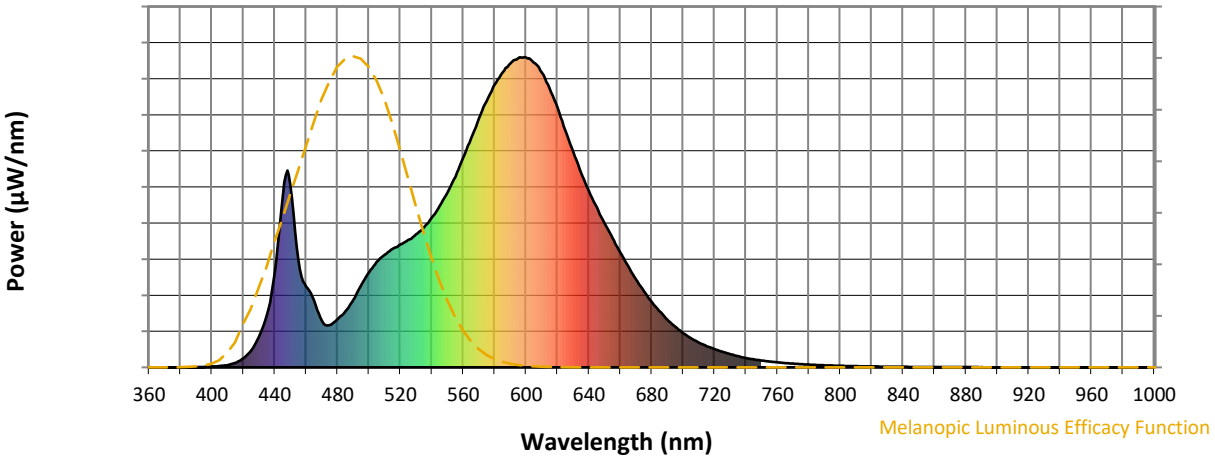


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

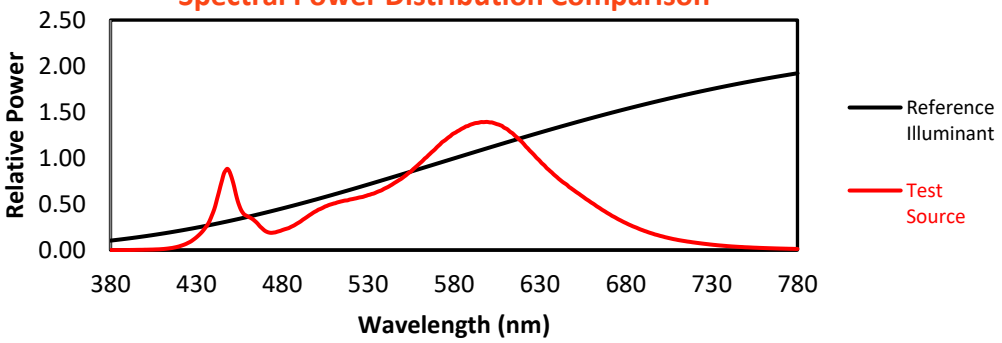
REPORT NUMBER: SP1-2501-332-9

TM-30-18

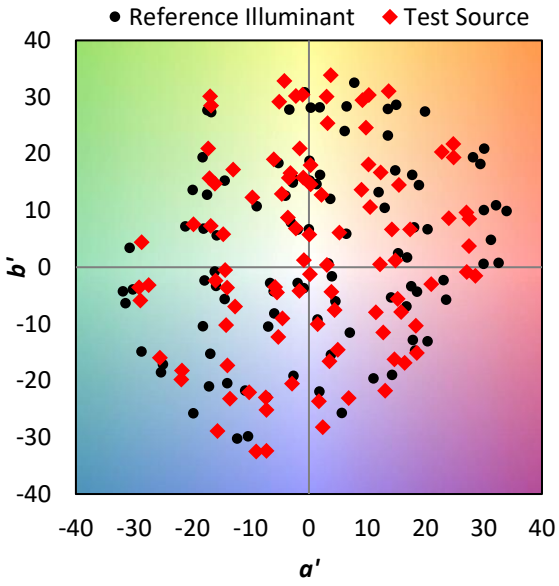
Summary

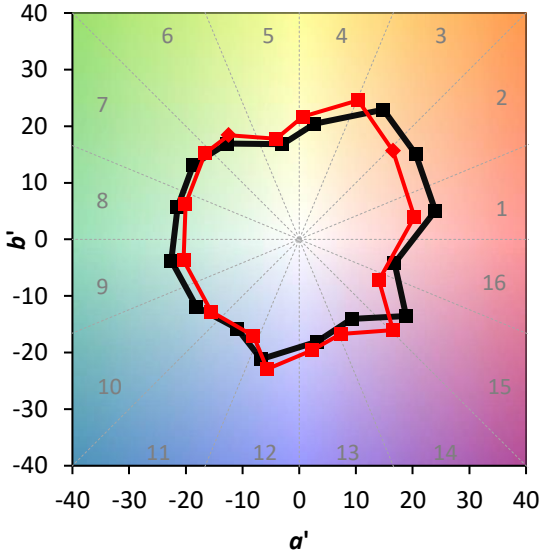
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

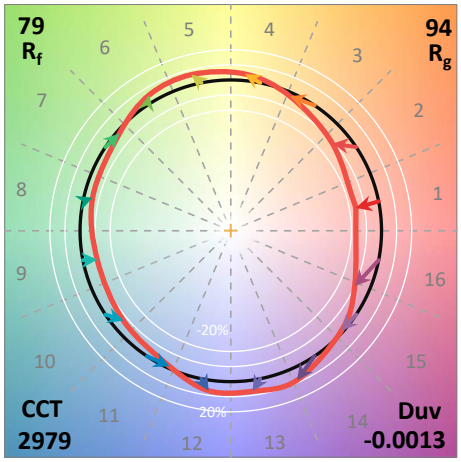
Spectral Power Distribution Comparison

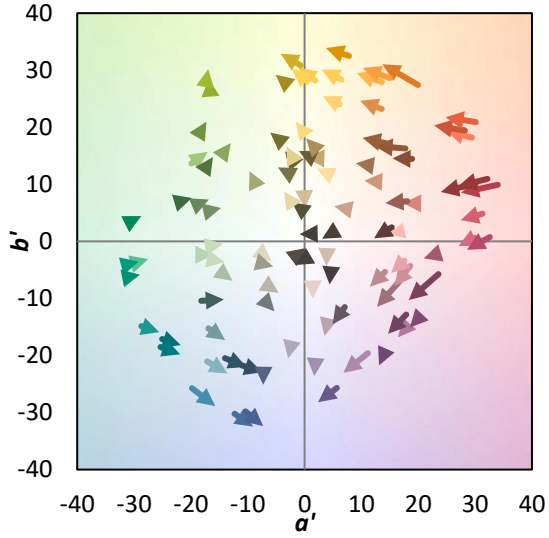


Color Vector Graphics







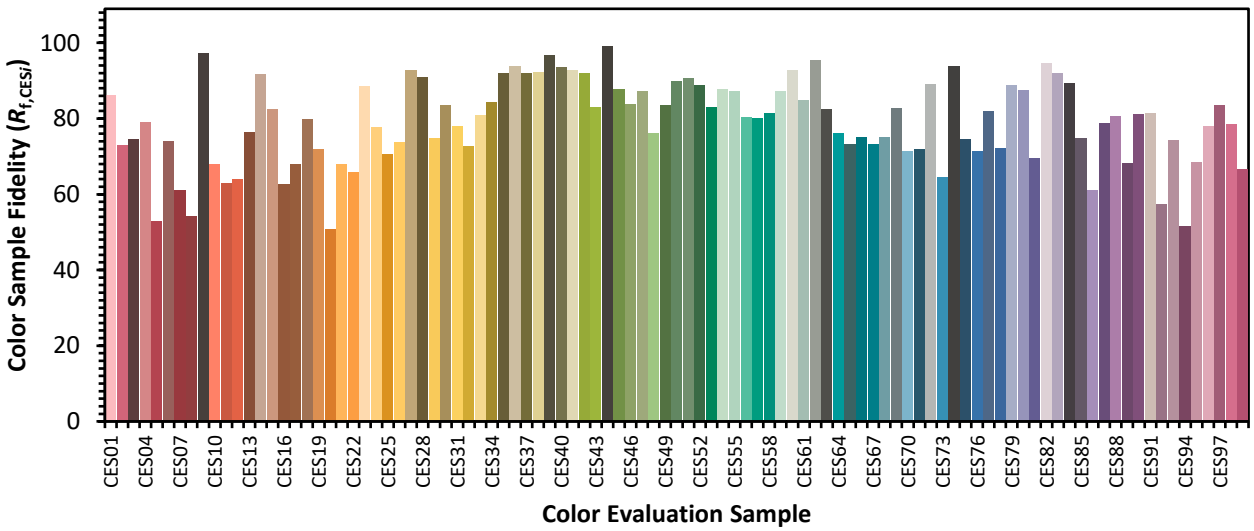


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

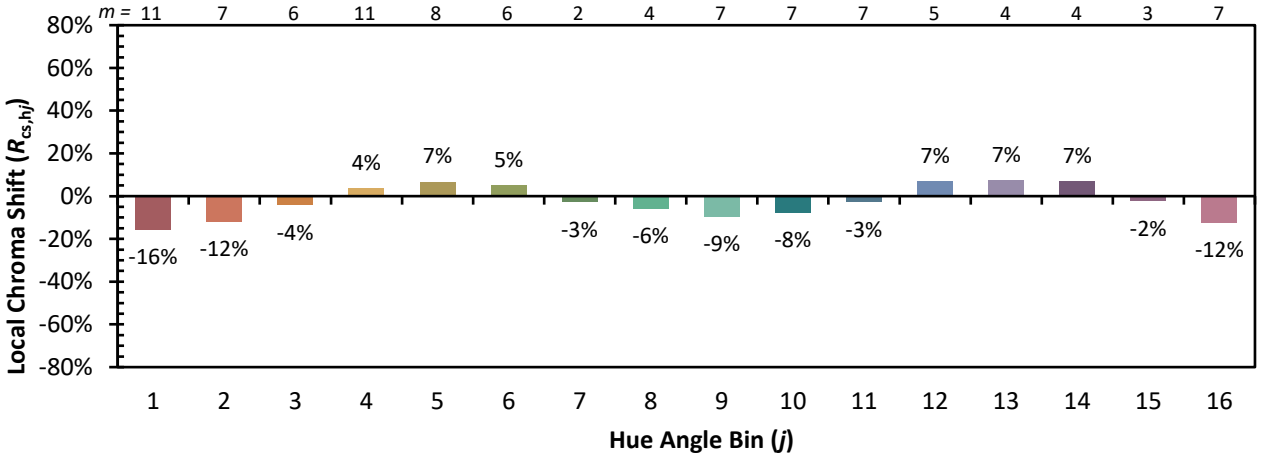
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
CES25 = 72	CES50 = 90	CES75 = 75	

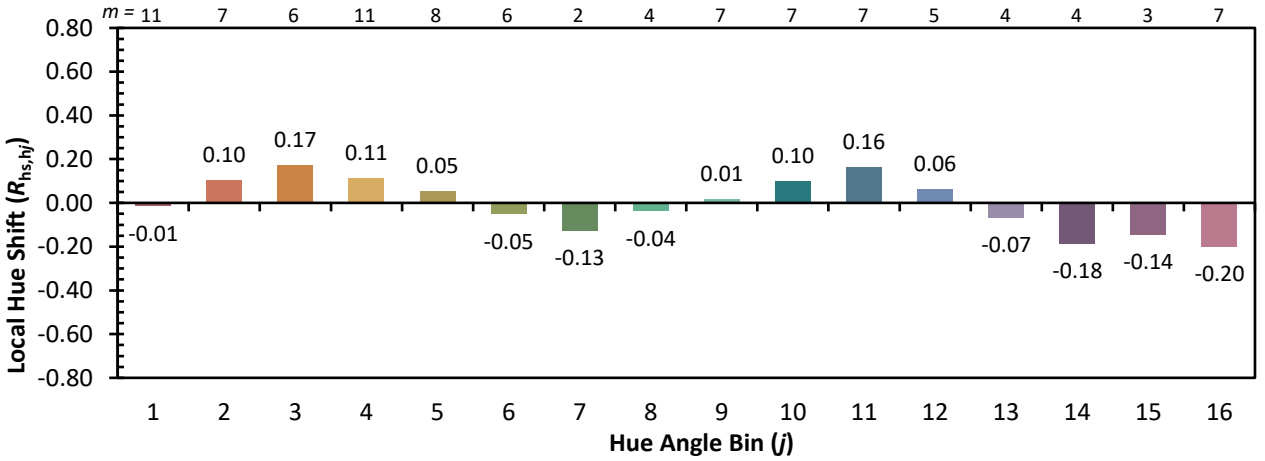


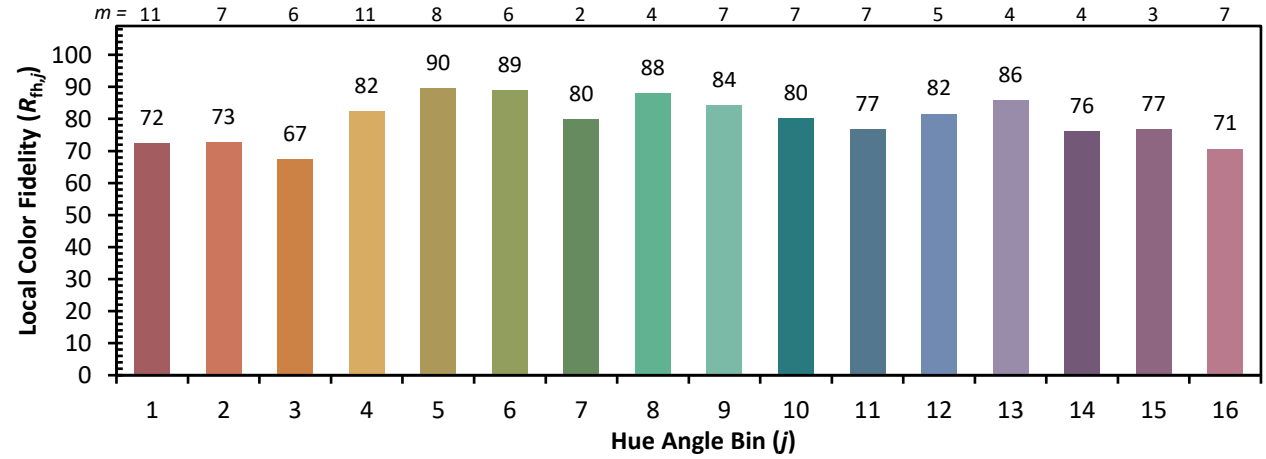
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Color Rendition by Hue-Angle Bin



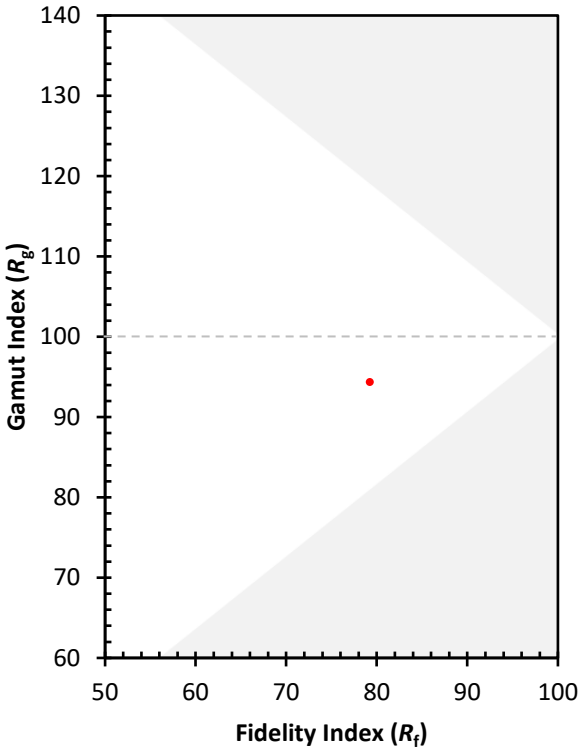


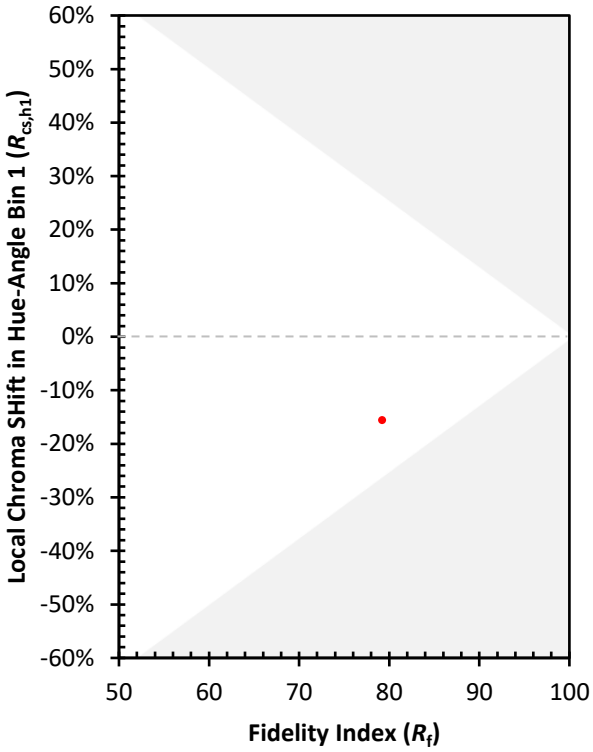


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Measure Comparisons





(END OF REPORT)