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: P1046559

Luminaire Tested: **FFX-CLB-20-727-U-FR-T3-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:	P1046559
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-727-U-FR-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2715.9 lumens
Efficiency:	N/A
Efficacy:	137.2 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):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

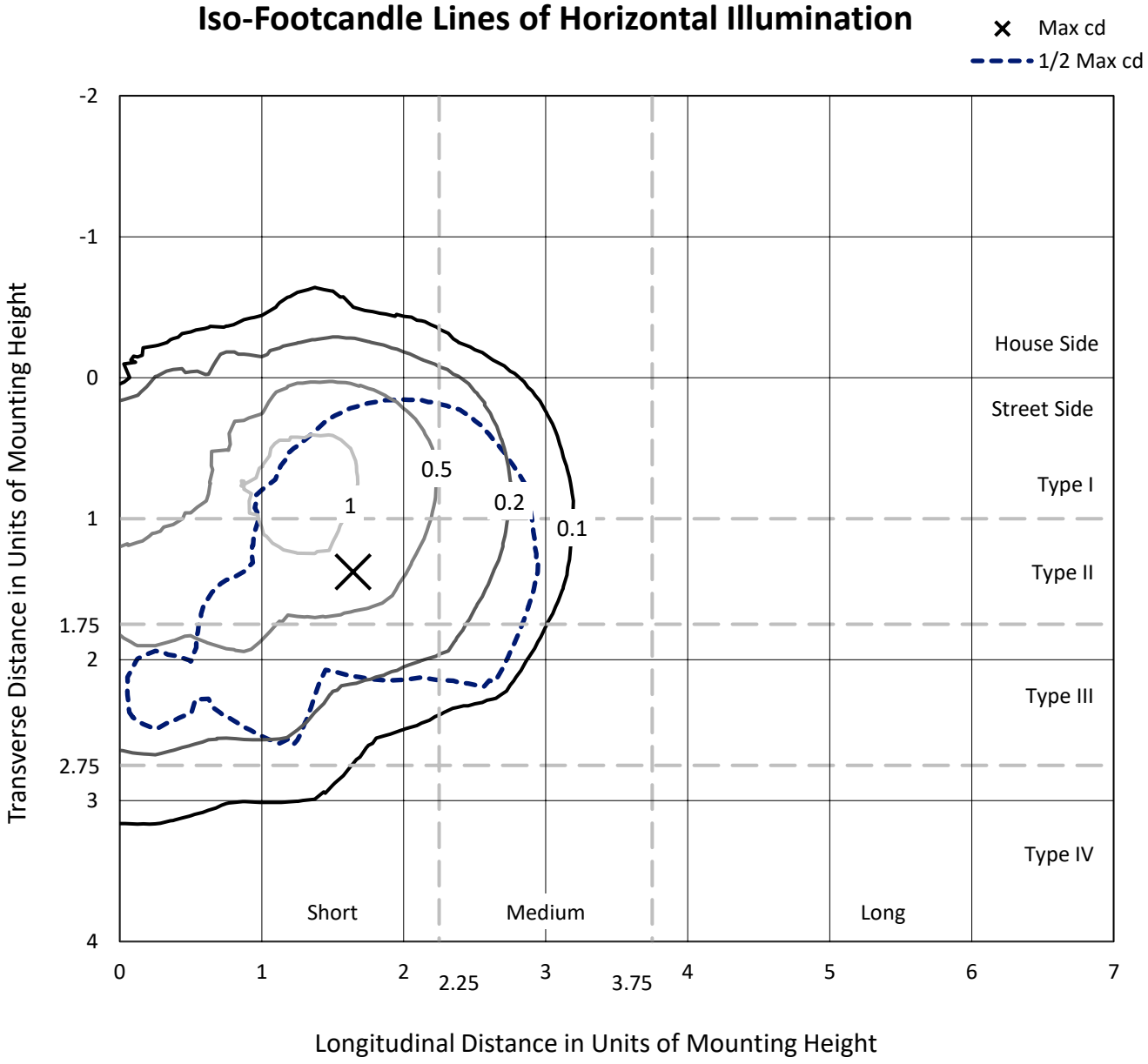


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Iso-Footcandle Lines of Horizontal Illumination



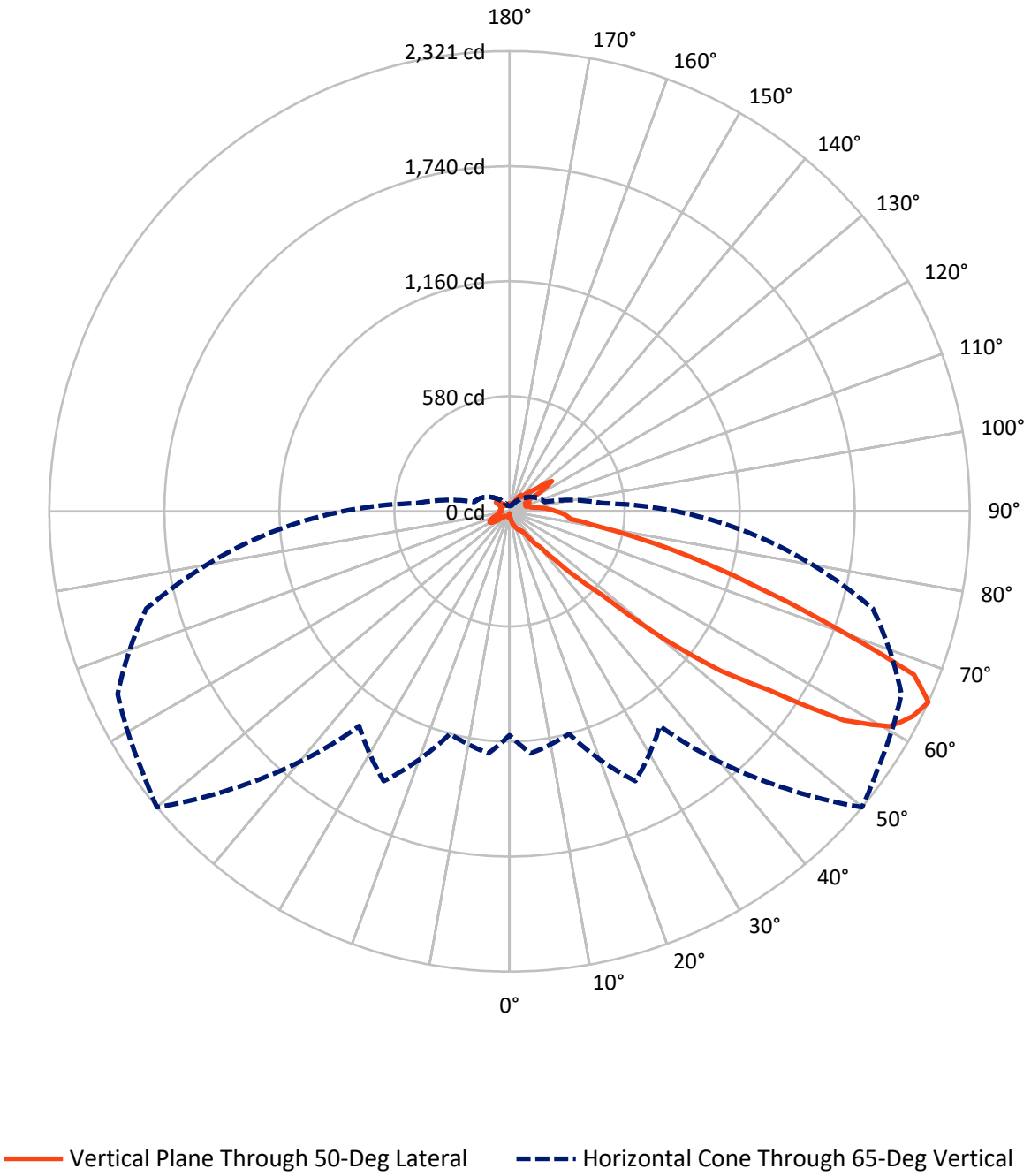
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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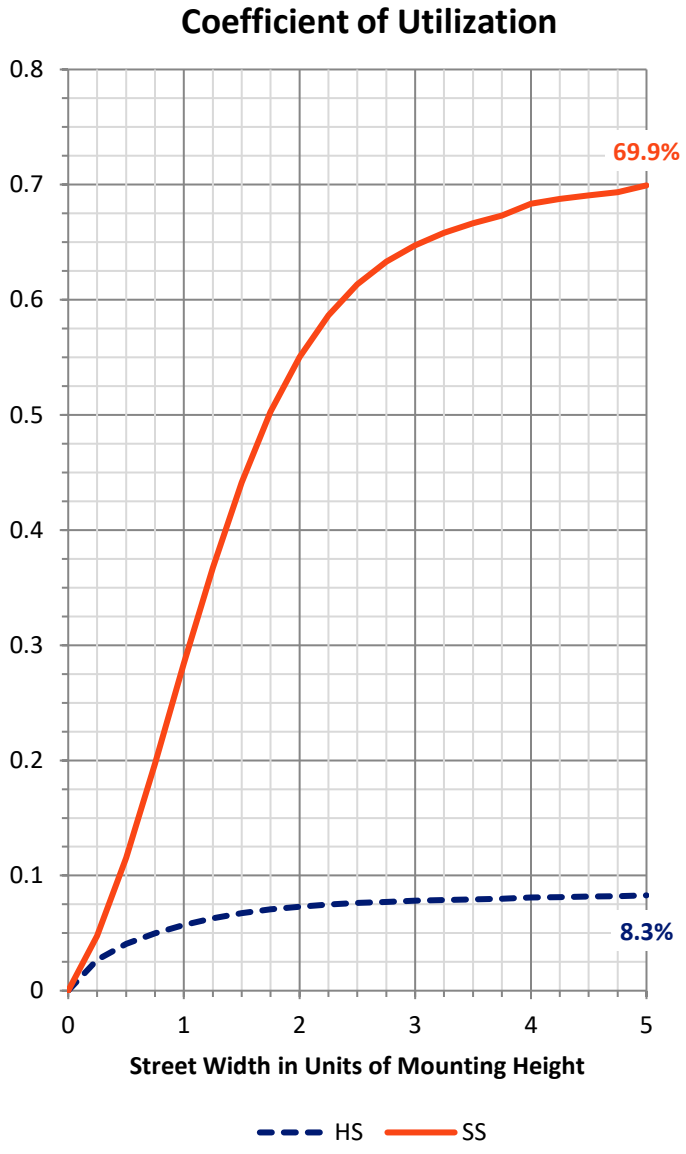
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	238.2	156.8	395.1
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	1964.6	356.2	2320.8
	% Fixture	72.3	13.1	85.5
Total	Lumens	2202.8	513.1	2715.9
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.1
10°-20°	14.2	0.5
20°-30°	30.3	1.1
30°-40°	60.4	2.2
40°-50°	158.3	5.8
50°-60°	524.5	19.3
60°-70°	827.2	30.5
70°-80°	431.9	15.9
80°-90°	153.4	5.6
90°-100°	99.0	3.6
100°-110°	66.8	2.5
110°-120°	76.2	2.8
120°-130°	126.3	4.6
130°-140°	72.1	2.7
140°-150°	39.5	1.5
150°-160°	19.3	0.7
160°-170°	10.2	0.4
170°-180°	3.7	0.1
0°-90°	2202.8	81.1
0°-180°	2715.9	100.0



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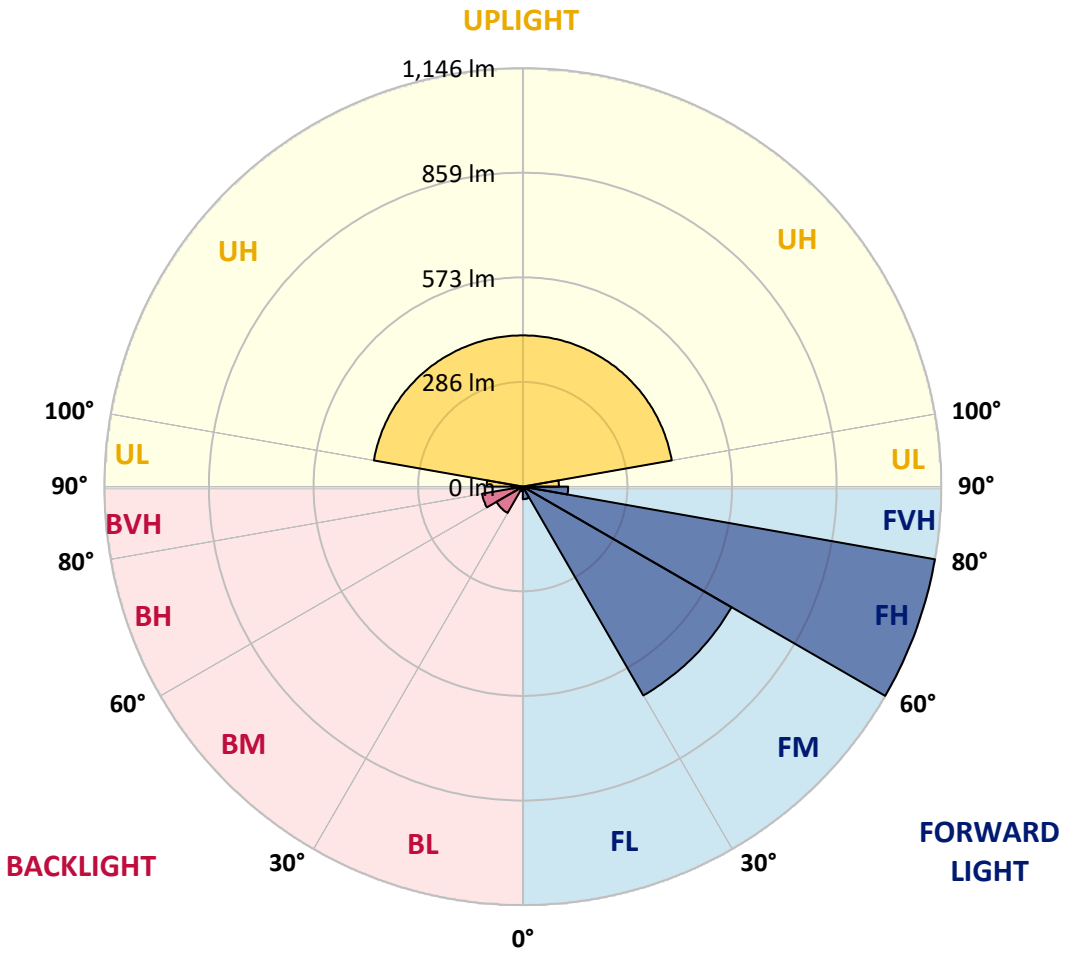
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	34.5	1.3			
FM	(30°-60°)	660.0	24.3			
FH	(60°-80°)	1145.8	42.2			G1/1800
FVH	(80°-90°)	124.2	4.6			G2/225
BL	(0°-30°)	12.5	0.5	B0/110		
BM	(30°-60°)	83.3	3.1	B0/220		
BH	(60°-80°)	113.3	4.2	B1/500		G1/500
BVH	(80°-90°)	29.2	1.1			G1/100
UL	(90°-100°)	99.0	3.6		U3/500	
UH	(100°-180°)	414.1	15.2		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	18.4	18.2	18.6	19.2	19.0	18.4	18.0	17.9	17.3	17.1	16.5
5°	27.3	27.1	26.7	27.1	27.3	26.5	26.1	25.1	24.2	22.5	21.5
7.5°	38.2	38.4	38.8	37.8	37.4	35.7	35.3	34.4	32.8	30.7	30.1
10°	51.8	52.0	53.0	51.4	48.9	46.8	46.4	46.8	48.6	43.2	39.9
12.5°	65.3	64.7	67.6	66.8	63.5	60.5	58.9	59.1	58.3	54.3	48.9
15°	77.7	77.7	79.8	80.6	77.2	70.1	67.8	67.2	66.8	62.6	55.1
17.5°	85.6	86.0	86.2	86.2	85.0	79.1	76.4	75.2	71.8	67.9	61.0
20°	92.1	92.3	90.6	90.8	92.5	87.3	84.6	82.3	78.7	74.7	66.0
22.5°	101.2	100.8	98.1	96.9	100.8	96.4	93.5	91.0	86.6	82.0	74.1
25°	111.1	110.7	108.1	105.2	107.9	103.8	100.8	98.5	94.4	91.4	75.2
27.5°	120.7	120.3	115.7	115.4	113.1	111.1	107.9	107.3	104.2	95.2	74.7
30°	127.8	127.4	122.5	122.6	116.7	118.2	113.4	113.1	109.4	97.5	76.0
32.5°	130.5	130.9	128.8	127.8	119.8	125.9	121.5	120.0	119.0	103.6	82.7
35°	140.3	143.4	146.6	147.8	140.5	152.0	143.0	141.8	144.1	126.1	103.3
37.5°	215.7	214.2	202.1	185.0	181.2	206.5	205.2	206.1	204.6	179.5	136.7
40°	215.9	216.9	209.2	198.8	186.8	212.7	232.4	215.0	240.5	195.6	149.9
42.5°	226.9	223.8	242.0	246.1	232.6	271.2	329.6	263.7	318.8	238.4	204.0
45°	268.5	268.5	271.8	273.7	268.9	365.8	478.7	367.9	426.1	298.3	244.9
47.5°	311.5	307.9	326.5	357.8	376.4	470.8	631.9	486.2	577.9	401.0	339.9
50°	434.4	439.5	475.2	511.7	539.5	701.0	1017.3	833.0	944.0	616.5	519.0
52.5°	529.8	560.1	587.5	689.8	702.3	957.8	1337.2	1117.7	1209.4	866.2	642.6
55°	628.2	688.3	704.6	885.2	899.4	1230.7	1591.9	1415.7	1441.7	1142.0	763.0
57.5°	808.6	892.5	898.1	1090.8	1090.2	1585.6	1987.5	1843.6	1824.0	1454.3	947.4
60°	963.9	1059.5	1025.3	1292.3	1232.4	1847.2	2201.9	2056.8	2014.0	1704.8	1077.2
62.5°	1058.2	1151.4	1109.4	1425.1	1323.2	1972.4	2279.5	2194.8	2121.9	1856.4	1182.9
65°	1128.4	1224.6	1161.6	1500.6	1321.5	1978.5	2320.5	2265.8	2180.4	1896.0	1206.1
67.5°	1119.2	1213.1	1137.6	1470.6	1229.2	1801.7	2199.8	2131.7	2026.1	1743.4	1128.0
70°	970.4	1027.1	944.1	1252.6	982.7	1393.7	1713.6	1674.3	1572.7	1334.5	872.6
72.5°	816.9	830.9	753.2	980.4	766.2	1015.4	1302.1	1260.1	1193.5	990.4	659.5
75°	630.9	630.9	586.4	735.1	569.3	720.5	985.6	974.9	933.8	743.2	500.8
77.5°	426.1	403.8	397.1	496.5	393.3	475.4	686.2	711.5	700.8	532.1	365.1
80°	248.4	253.7	244.3	306.5	258.7	310.9	440.3	473.7	472.7	353.4	239.5
82.5°	193.7	197.5	187.7	220.7	197.5	244.7	308.6	306.5	313.8	256.0	180.2
85°	190.8	193.7	183.5	204.0	189.6	232.4	290.0	289.4	287.9	237.0	169.3
87.5°	173.5	177.4	168.5	185.0	172.0	212.3	263.5	266.6	262.2	222.3	162.8
90°	145.1	149.1	145.3	164.5	151.1	183.1	229.2	231.5	227.6	198.1	146.8
92.5°	130.5	133.2	128.6	145.3	131.1	160.8	202.5	203.8	197.9	174.3	127.1
95°	120.3	123.0	117.3	129.6	115.7	141.8	172.4	176.8	167.9	147.0	108.3
97.5°	100.0	98.3	96.0	106.5	95.8	111.7	131.9	135.1	129.6	114.0	86.2
100°	86.6	87.1	86.2	93.9	84.1	96.0	111.7	113.1	110.7	99.4	77.9
102.5°	83.9	84.1	85.8	91.0	79.7	88.3	101.7	102.5	101.9	91.2	72.0
105°	83.1	82.9	83.9	89.4	77.7	80.8	93.7	94.0	92.1	84.8	67.4
107.5°	78.5	79.1	78.9	83.9	76.4	76.8	85.0	84.8	84.5	77.7	63.7
110°	90.0	89.1	85.0	85.2	77.9	79.8	88.1	87.1	85.2	81.2	69.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	128.0	125.3	120.7	105.6	97.9	103.3	*108.8*	109.8	107.7	104.0	87.9
115°	142.0	141.7	136.5	126.5	101.2	103.1	*106.7*	108.3	110.7	103.6	90.0
117.5°	116.5	122.8	114.8	116.1	101.7	89.4	*88.9*	85.8	87.1	86.4	83.3
120°	147.0	148.2	131.9	128.8	118.8	122.8	*123.0*	123.4	119.4	100.0	88.1
122.5°	206.7	206.7	211.3	219.8	214.6	207.3	*203.1*	198.8	193.3	174.9	149.5
125°	262.2	261.8	259.3	263.5	258.3	261.2	*262.6*	263.7	257.8	235.3	200.8
127.5°	211.3	216.7	225.7	248.6	234.2	230.1	*226.3*	229.0	224.6	220.3	198.8
130°	163.7	164.3	179.1	193.7	192.5	179.7	*175.2*	167.6	169.3	168.7	155.9
132.5°	139.9	140.7	149.3	157.6	164.5	155.1	*146.4*	142.4	143.8	142.8	134.5
135°	122.3	122.3	119.2	118.2	124.0	132.6	*131.7*	126.5	124.0	121.1	108.8
137.5°	105.8	105.4	99.8	96.7	101.3	112.5	*113.2*	113.2	110.7	103.8	95.0
140°	87.1	86.6	83.7	84.3	85.4	92.9	*93.5*	95.2	94.8	89.3	78.5
142.5°	66.0	66.2	70.4	75.2	77.9	94.0	*91.6*	89.6	95.8	95.4	68.5
145°	88.1	86.2	86.2	84.1	90.4	106.3	*101.3*	102.9	110.9	103.5	74.1
147.5°	80.8	81.8	82.0	81.6	89.6	90.6	*86.9*	87.1	90.0	90.0	75.8
150°	62.6	61.0	61.4	62.2	70.6	70.1	*66.8*	66.6	68.9	68.3	62.0
152.5°	49.5	49.3	49.1	49.9	56.8	53.9	*52.6*	52.0	51.6	51.1	49.5
155°	46.6	46.4	46.1	47.0	51.1	49.7	*48.9*	48.9	48.0	47.0	46.1
157.5°	41.5	41.3	41.5	43.4	45.7	44.1	*44.0*	43.8	43.4	42.2	41.8
160°	38.8	38.6	39.0	40.5	41.5	40.1	*39.7*	39.9	39.7	39.2	39.9
162.5°	36.7	36.7	36.7	37.6	38.0	37.0	*36.9*	37.0	37.2	37.2	38.2
165°	35.5	35.5	35.7	36.3	36.3	35.9	*35.5*	35.5	36.5	36.9	37.6
167.5°	36.3	36.3	36.5	36.7	36.7	36.3	*36.3*	36.5	37.0	37.4	37.4
170°	37.4	37.4	37.4	37.6	37.4	36.9	*36.9*	36.9	37.0	37.0	37.2
172.5°	38.8	38.8	38.8	38.6	38.2	38.0	*37.6*	37.6	37.8	37.6	37.8
175°	40.7	40.5	40.5	40.3	40.1	39.9	*39.7*	39.5	39.5	39.0	39.0
177.5°	41.7	41.5	41.7	41.7	41.5	41.1	*40.7*	40.7	40.5	40.1	39.9
180°	40.1	40.1	40.1	40.1	40.1	40.1	*40.1*	40.1	40.1	40.1	40.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	16.1	15.5	14.0	12.7	11.7	11.3	11.3	10.7	10.0	9.4	9.2
5°	21.3	20.9	20.3	19.6	17.9	15.5	13.6	12.9	12.5	12.3	12.1
7.5°	30.1	30.5	31.3	31.1	27.8	21.7	18.0	17.9	20.0	22.3	23.0
10°	39.0	38.6	41.1	43.2	35.1	24.6	18.6	18.0	20.9	25.0	25.5
12.5°	46.6	44.7	43.4	41.1	33.6	24.6	20.0	18.8	20.2	23.2	23.2
15°	52.4	49.9	44.3	39.0	32.2	25.3	20.7	20.0	20.0	19.0	19.2
17.5°	56.8	52.2	44.1	37.2	29.9	24.2	20.5	18.4	17.3	15.7	15.4
20°	62.0	58.7	48.0	38.4	29.6	23.4	20.0	17.5	16.1	15.5	15.4
22.5°	67.6	60.8	50.5	38.8	29.6	23.8	19.8	17.1	15.9	15.5	15.5
25°	68.1	62.4	51.8	40.3	30.5	24.6	20.2	17.3	16.1	15.7	15.5
27.5°	67.4	63.3	54.1	42.0	31.5	25.3	20.9	17.7	16.1	15.5	15.4
30°	70.2	67.0	56.8	43.2	32.4	26.3	21.7	18.4	16.5	15.4	15.2
32.5°	77.5	72.9	60.5	44.0	32.8	26.5	22.5	19.2	16.9	15.5	15.4
35°	96.7	92.5	74.5	46.6	32.8	26.9	23.0	19.8	17.3	15.7	15.5
37.5°	124.6	116.7	91.6	55.7	33.2	27.6	23.6	20.5	17.9	16.1	15.7
40°	132.1	111.5	77.7	49.9	34.0	28.4	24.6	21.3	18.6	16.7	16.5
42.5°	171.4	142.6	96.0	52.8	36.3	29.0	25.1	22.1	19.2	17.3	16.9
45°	183.5	142.8	97.5	61.0	42.6	31.5	26.1	22.6	19.6	17.7	17.5
47.5°	240.5	177.2	99.4	65.5	47.8	36.3	28.4	23.4	20.0	18.0	17.9
50°	352.6	249.9	123.4	81.8	59.1	44.3	33.4	25.0	20.3	18.6	18.2
52.5°	439.9	299.8	133.8	100.0	78.5	58.5	42.0	29.0	21.5	19.0	18.6
55°	536.3	368.3	152.0	120.5	95.2	73.3	53.4	34.9	23.8	19.6	19.2
57.5°	668.9	439.7	178.5	142.2	115.5	85.6	60.8	40.9	26.9	20.9	20.2
60°	749.5	470.1	182.7	153.9	127.6	95.4	64.1	43.4	30.1	22.8	21.7
62.5°	826.7	491.0	183.9	158.5	130.5	97.3	64.5	42.2	31.3	25.5	24.0
65°	*842.4*	*470.2*	*184.3*	*159.5*	*127.1*	*92.3*	*62.4*	*41.1*	*29.9*	*27.8*	*28.0*
67.5°	789.3	417.7	170.8	152.6	117.9	82.3	56.0	39.3	29.6	27.4	28.0
70°	620.5	327.3	156.0	141.5	100.0	70.1	49.9	37.0	29.6	26.5	25.9
72.5°	481.8	279.7	159.9	134.4	85.6	62.6	45.1	34.5	28.6	26.3	25.9
75°	373.9	233.4	157.6	118.2	69.9	53.7	40.5	31.7	27.3	25.9	25.7
77.5°	273.3	184.1	130.3	90.6	58.0	45.7	35.7	29.8	26.5	25.3	25.1
80°	175.8	128.8	90.8	72.4	50.9	41.7	33.4	28.4	26.1	25.3	25.1
82.5°	148.2	116.9	81.8	68.5	49.1	42.4	34.9	29.8	27.4	26.7	26.5
85°	142.6	120.3	84.1	71.4	47.0	40.5	34.2	29.8	27.6	26.7	26.5
87.5°	135.5	108.8	82.9	65.6	45.3	39.0	33.6	30.5	28.4	27.8	27.6
90°	122.6	96.0	76.0	61.0	47.8	41.5	37.0	33.8	31.7	30.3	29.9
92.5°	103.5	77.2	65.3	60.3	52.4	47.0	42.6	39.7	37.4	36.1	35.5
95°	87.1	67.4	56.8	53.4	46.3	42.2	38.0	35.9	34.2	33.0	33.0
97.5°	71.0	57.8	52.8	50.1	44.3	39.9	36.5	34.4	33.8	33.4	33.2
100°	66.8	56.6	53.2	50.9	46.3	42.2	39.5	37.6	37.4	37.2	37.2
102.5°	62.0	53.6	49.7	47.4	42.8	39.3	37.4	35.9	35.3	34.7	34.2
105°	58.5	50.7	47.8	44.7	41.1	37.6	35.7	33.4	33.0	32.8	32.8
107.5°	56.8	50.3	48.8	44.0	40.5	39.0	36.7	33.8	33.2	32.4	32.4
110°	62.8	55.9	51.4	45.5	41.8	40.5	39.9	37.4	35.5	33.2	33.0

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

Scaled Data Report

REPORT NUMBER: P1046559
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	77.7	68.3	63.1	54.3	46.8	43.6	41.1	38.4	37.2	35.7	35.1
115°	83.7	74.1	67.6	58.7	50.1	44.3	40.7	40.3	39.2	38.2	39.2
117.5°	85.8	67.4	55.7	53.6	47.0	42.4	40.7	40.1	40.5	40.5	38.8
120°	92.5	72.7	68.3	65.6	53.4	45.9	42.0	44.0	43.6	41.3	41.3
122.5°	138.0	123.2	108.6	90.6	75.2	66.4	53.4	44.7	43.0	41.5	40.5
125°	181.8	168.5	145.7	121.7	95.2	70.4	53.0	46.8	43.6	41.7	42.0
127.5°	185.2	171.2	145.1	115.7	85.0	65.8	53.4	48.0	44.3	42.2	41.8
130°	144.7	134.7	115.2	93.7	72.2	58.9	49.3	44.0	40.7	38.8	38.4
132.5°	128.0	119.6	99.2	80.4	65.8	54.7	46.4	40.5	38.2	36.9	36.7
135°	102.3	95.2	81.6	71.4	61.2	52.0	43.8	38.2	36.1	35.9	35.5
137.5°	89.6	83.9	73.3	64.9	56.4	47.6	40.7	36.1	35.1	35.3	34.7
140°	73.1	70.6	64.7	57.4	48.4	39.2	34.4	32.8	34.4	35.1	35.1
142.5°	62.8	59.5	52.8	44.3	38.6	34.4	33.8	33.2	34.0	34.4	34.4
145°	57.8	53.9	48.4	45.3	42.6	39.0	35.9	33.2	32.4	32.6	32.6
147.5°	65.3	60.8	57.2	51.4	44.9	38.8	34.2	31.1	31.1	31.9	32.1
150°	54.1	50.3	47.8	44.5	39.5	34.5	31.3	29.8	30.3	31.9	32.1
152.5°	45.3	40.7	39.2	37.2	34.5	31.9	30.3	29.6	30.5	31.7	31.7
155°	44.1	40.1	38.2	36.3	33.8	31.5	30.1	29.8	30.7	31.5	31.7
157.5°	41.5	39.2	36.7	35.1	33.2	31.5	30.5	30.1	30.9	31.5	31.7
160°	39.9	38.6	35.7	34.4	32.6	31.5	31.3	31.3	31.7	31.9	31.9
162.5°	38.2	37.4	35.7	34.5	33.4	32.8	33.2	33.4	33.4	33.2	33.2
165°	37.6	37.2	35.7	34.7	34.2	34.4	35.1	35.3	34.7	34.4	34.4
167.5°	37.4	37.4	36.3	35.5	35.3	35.7	36.5	36.5	35.9	35.1	34.9
170°	37.4	37.6	37.2	37.2	36.9	37.0	37.2	37.2	36.9	36.5	36.3
172.5°	38.0	38.0	38.0	38.0	37.8	38.0	38.2	38.2	38.2	38.0	38.0
175°	39.0	39.0	39.0	38.8	38.6	38.6	38.8	39.0	39.2	39.2	39.2
177.5°	39.9	39.7	39.5	39.7	39.5	39.5	39.9	40.1	40.3	40.3	40.3
180°	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1

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: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

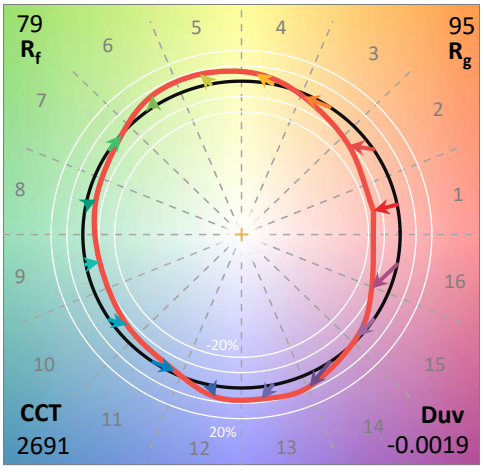
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

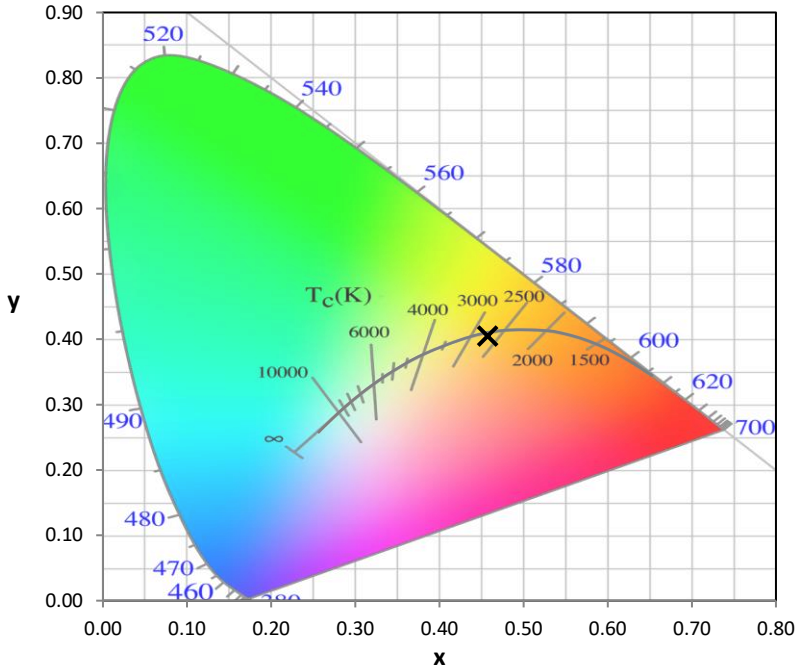
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

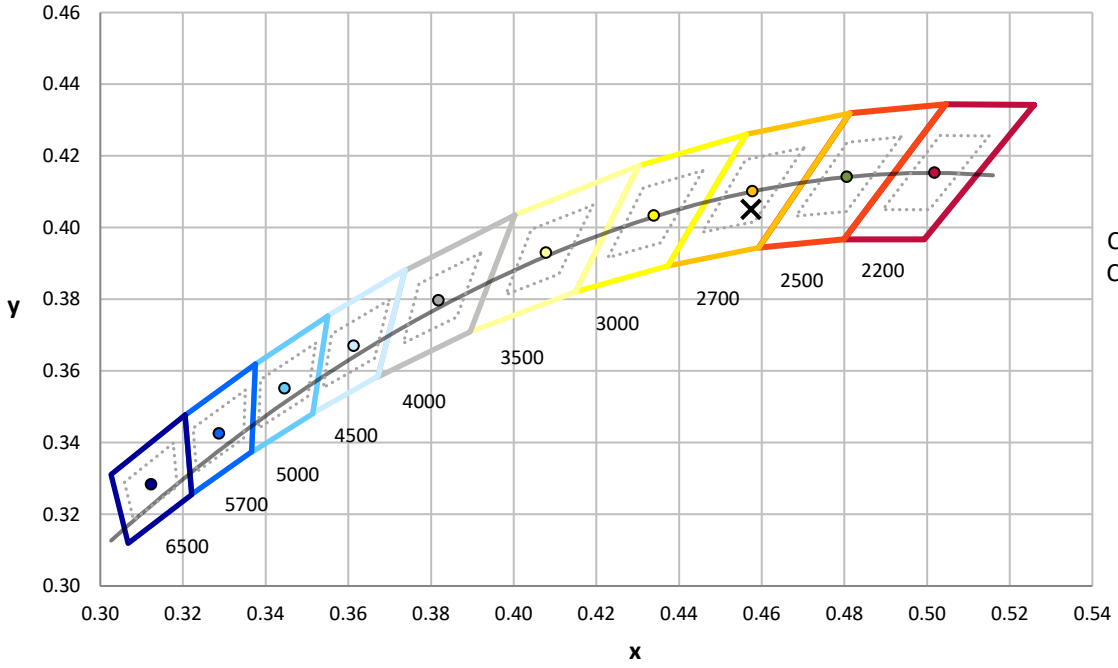
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



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

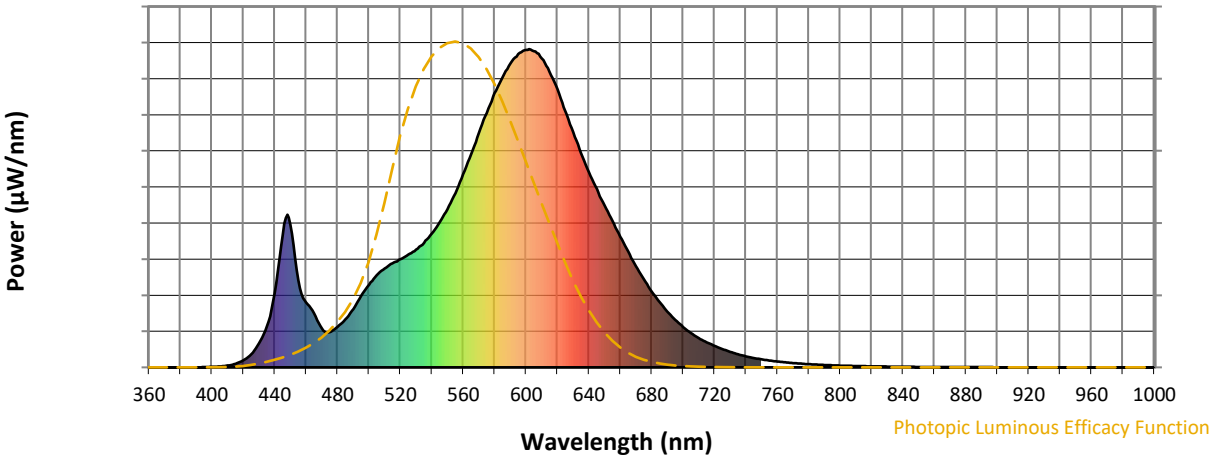


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

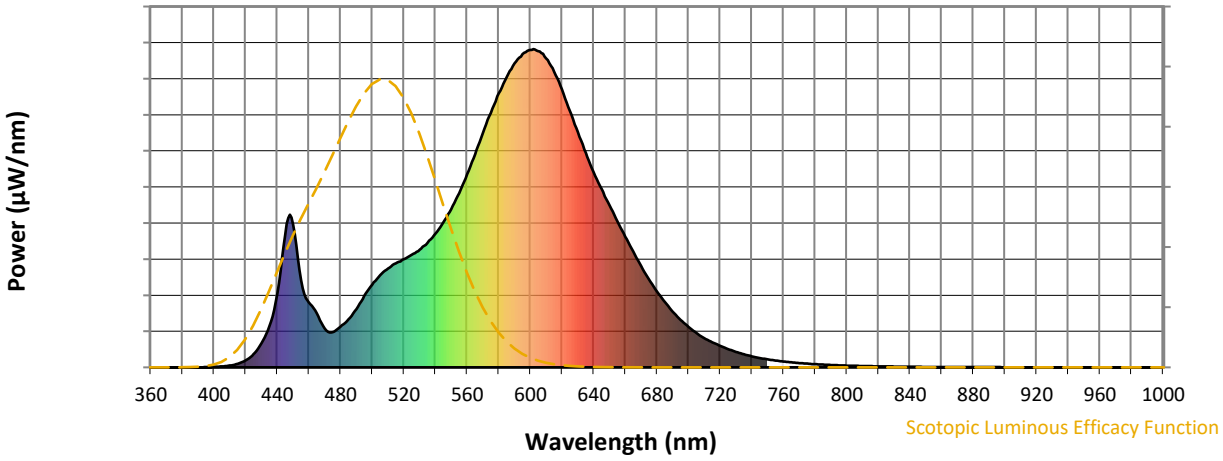


Photopic Lumens: NR

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

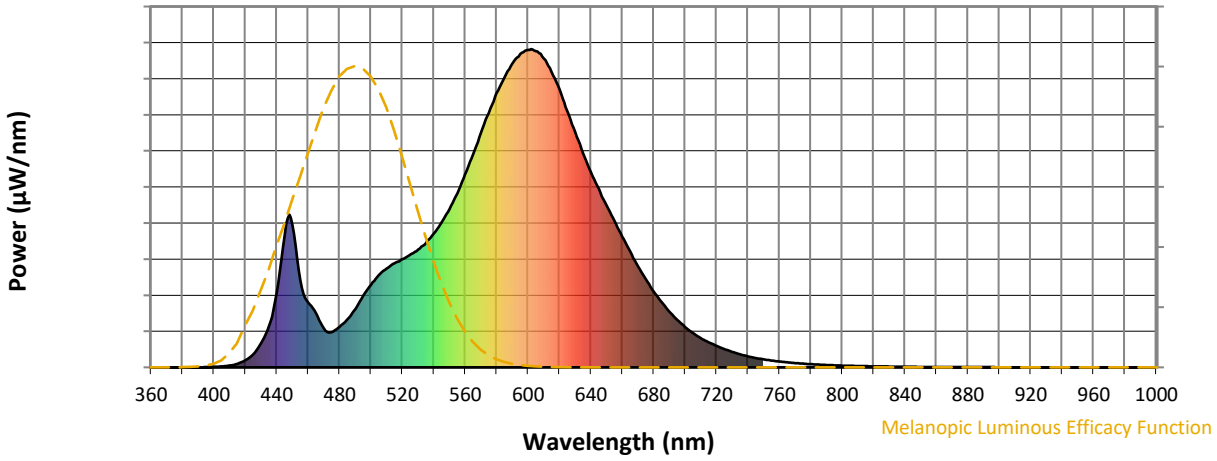


Scotopic Lumens: NR **S/P: 1.18**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

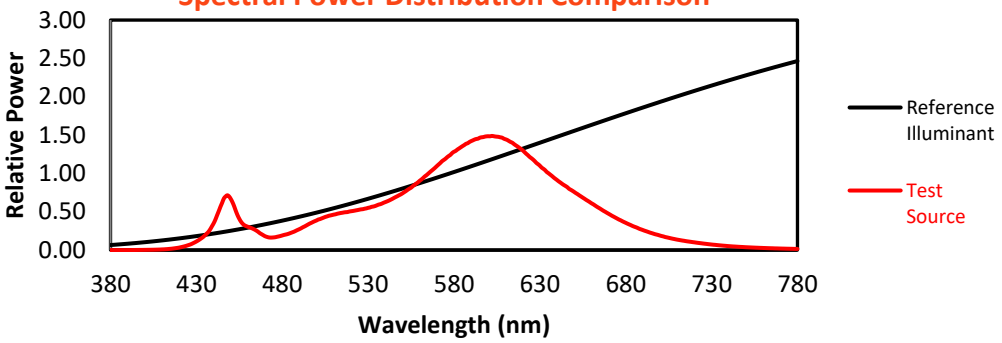
REPORT NUMBER: SP1-2501-332-8

TM-30-18

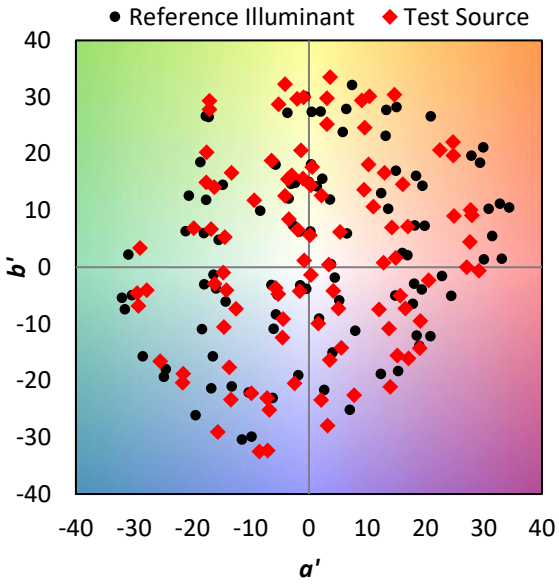
Summary

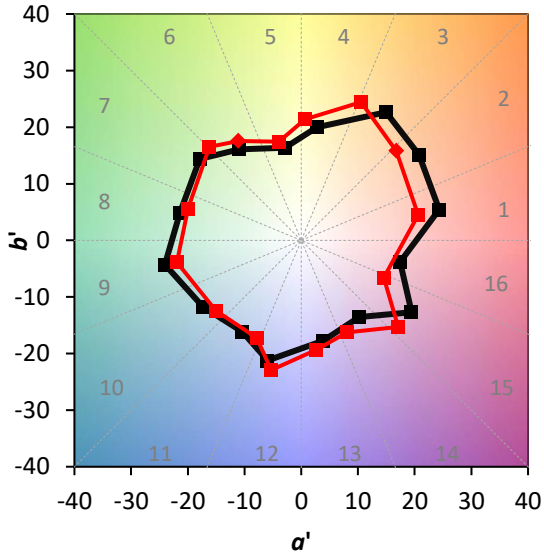
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

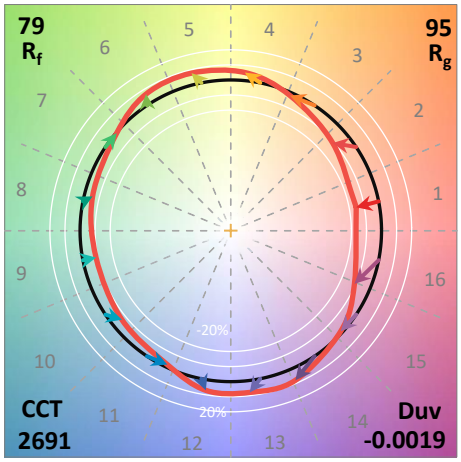
Spectral Power Distribution Comparison

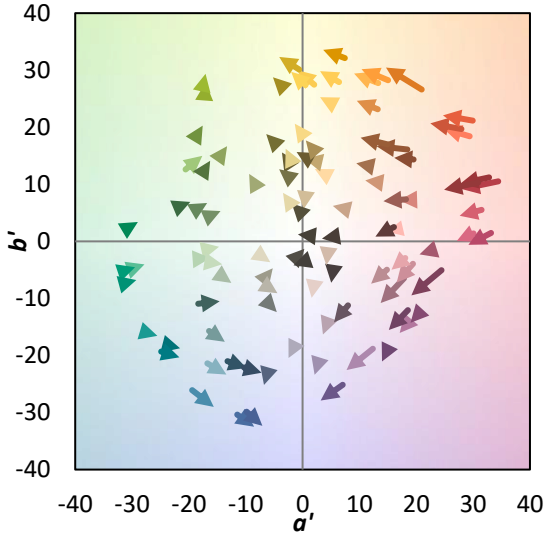


Color Vector Graphics







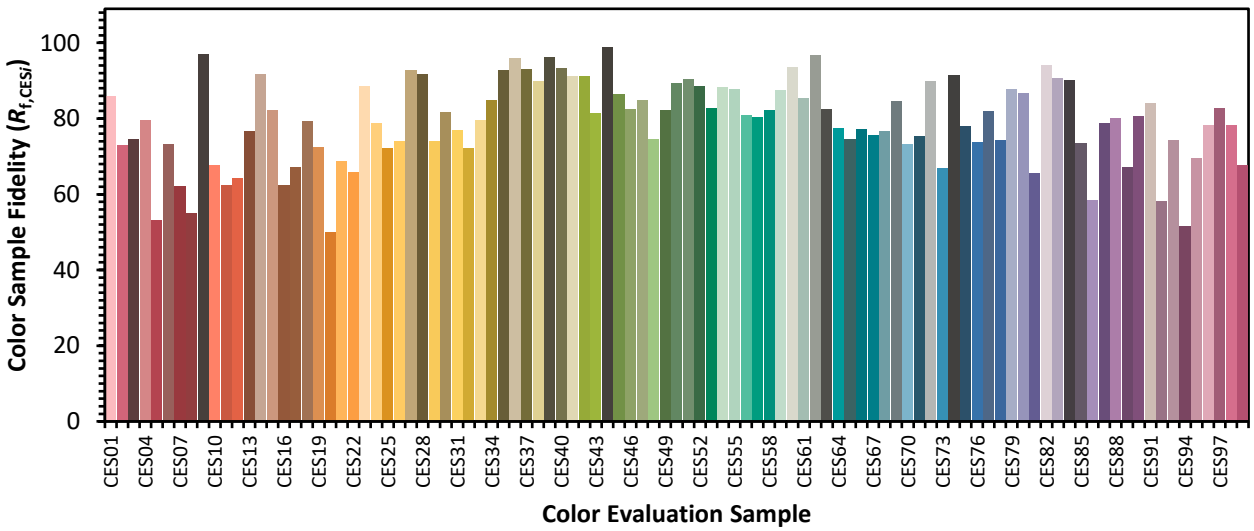


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

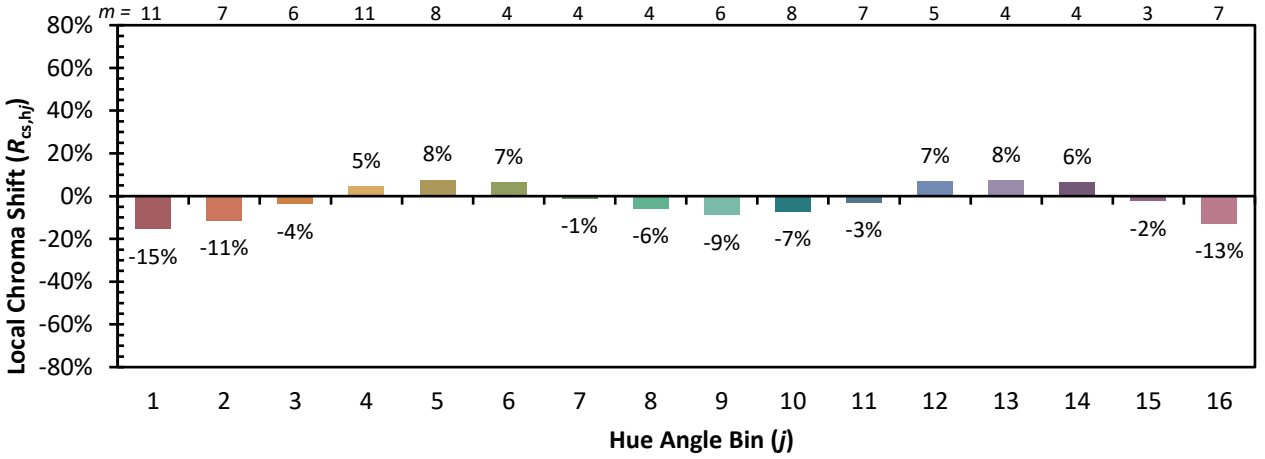
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 82	CES83 = 91
CES09 = 29	CES34 = 85	CES59 = 88	CES84 = 90
CES10 = 77	CES35 = 93	CES60 = 94	CES85 = 73
CES11 = 60	CES36 = 96	CES61 = 85	CES86 = 58
CES12 = 66	CES37 = 93	CES62 = 97	CES87 = 79
CES13 = 44	CES38 = 90	CES63 = 83	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 77	CES89 = 67
CES15 = 72	CES40 = 93	CES65 = 75	CES90 = 81
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 84
CES17 = 51	CES42 = 91	CES67 = 76	CES92 = 58
CES18 = 57	CES43 = 82	CES68 = 77	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 85	CES94 = 52
CES20 = 67	CES45 = 86	CES70 = 73	CES95 = 70
CES21 = 87	CES46 = 83	CES71 = 75	CES96 = 78
CES22 = 80	CES47 = 85	CES72 = 90	CES97 = 83
CES23 = 92	CES48 = 74	CES73 = 67	CES98 = 78
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 68
CES25 = 73	CES50 = 89	CES75 = 78	

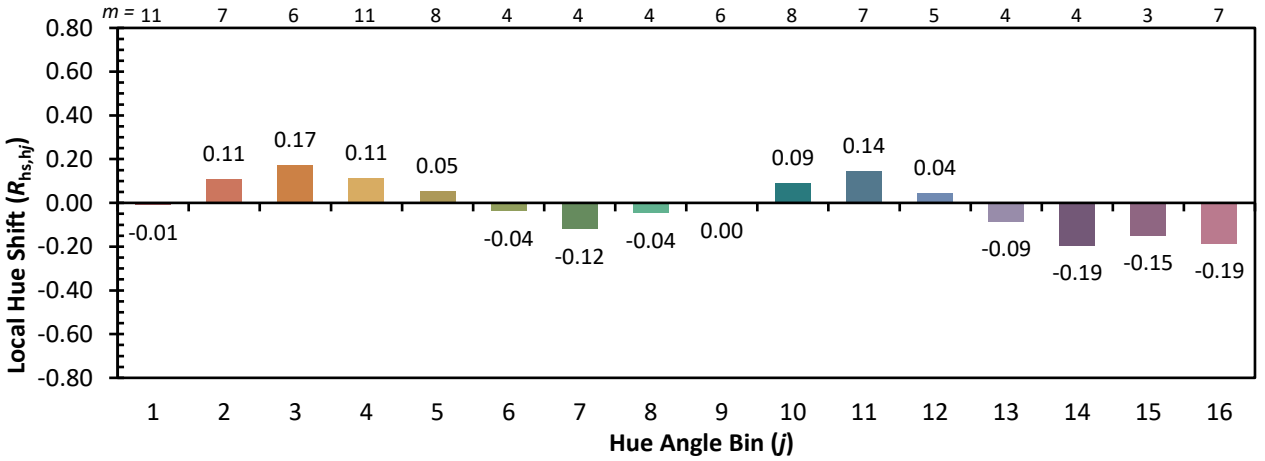


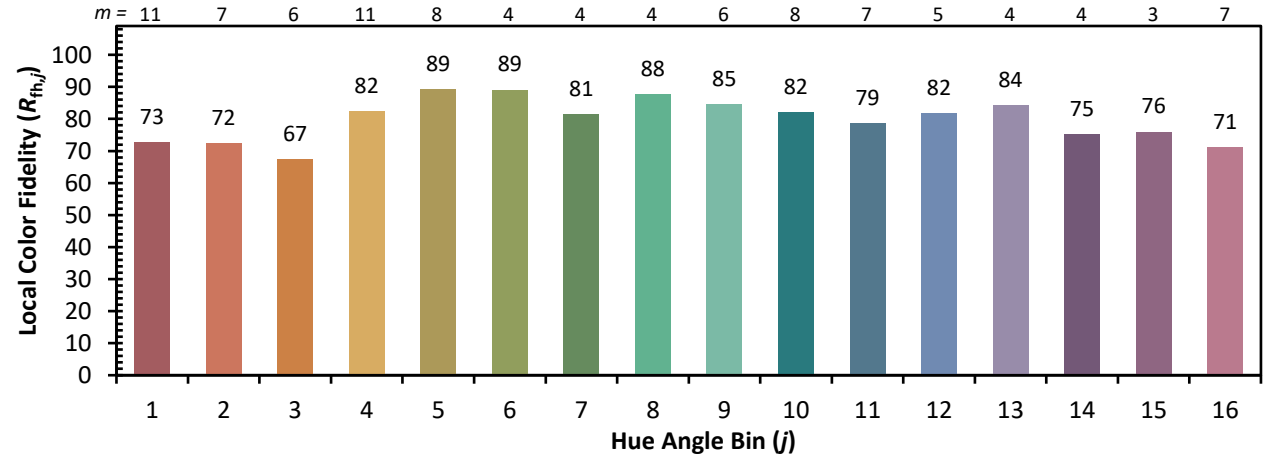
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Color Rendition by Hue-Angle Bin



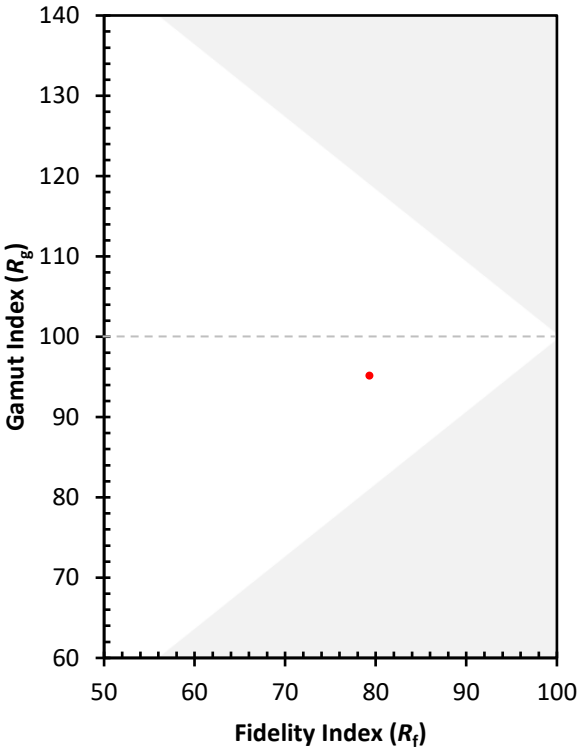


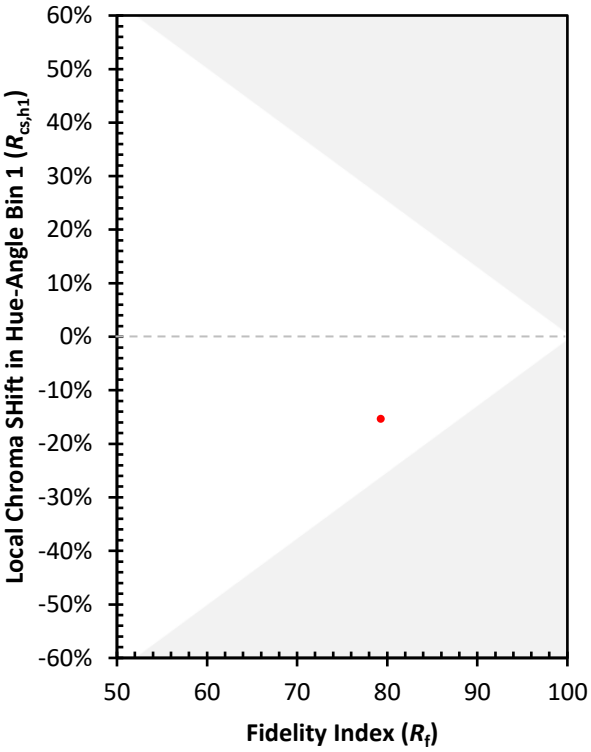


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Measure Comparisons





(END OF REPORT)