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: P1046424

Luminaire Tested: **FFX-CLB-20-727-U-FR-T4-UPLR**

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:	P1046424
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-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2960.3 lumens
Efficiency:	N/A
Efficacy:	149.5 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):	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

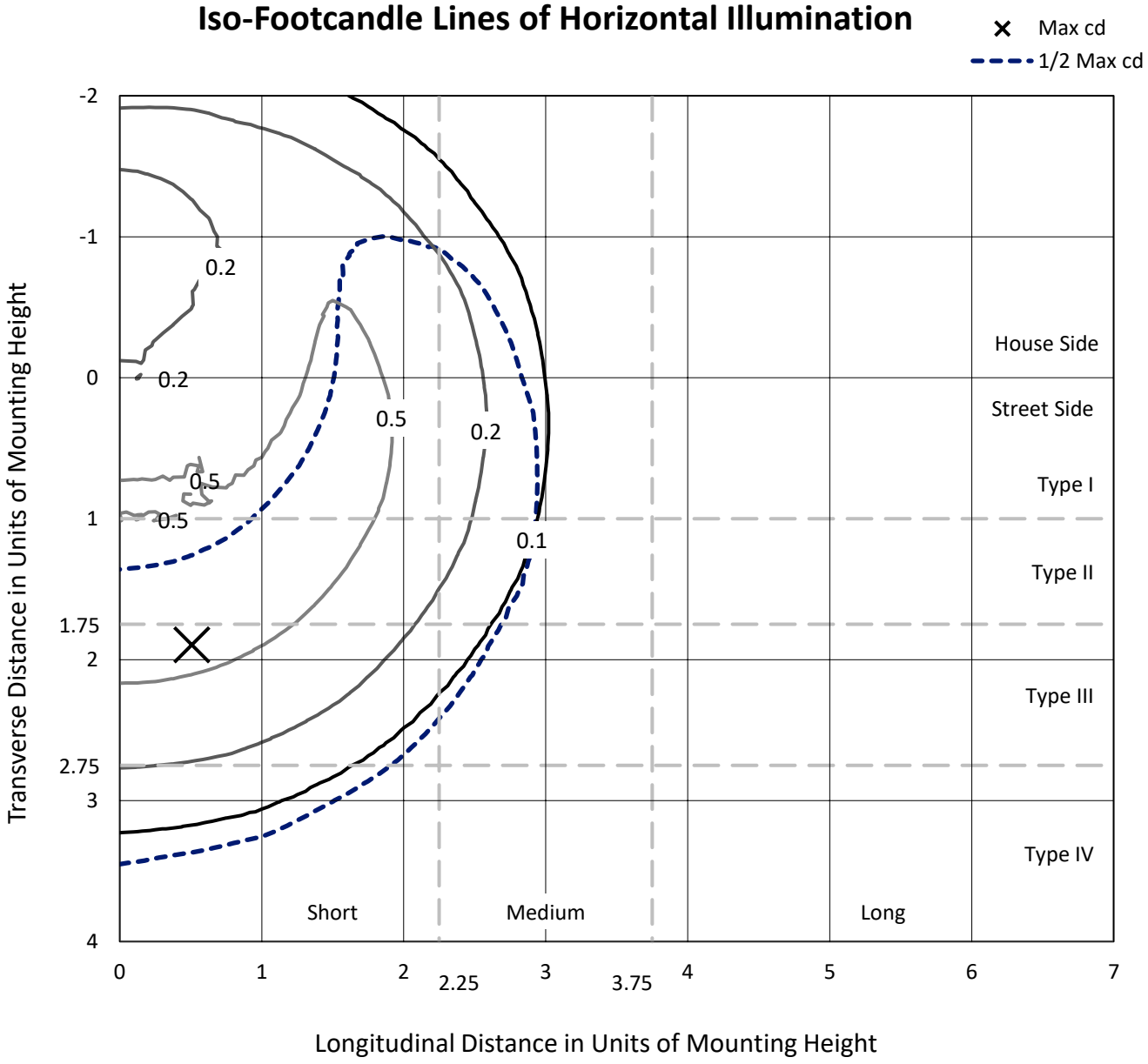


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Iso-Footcandle Lines of Horizontal Illumination



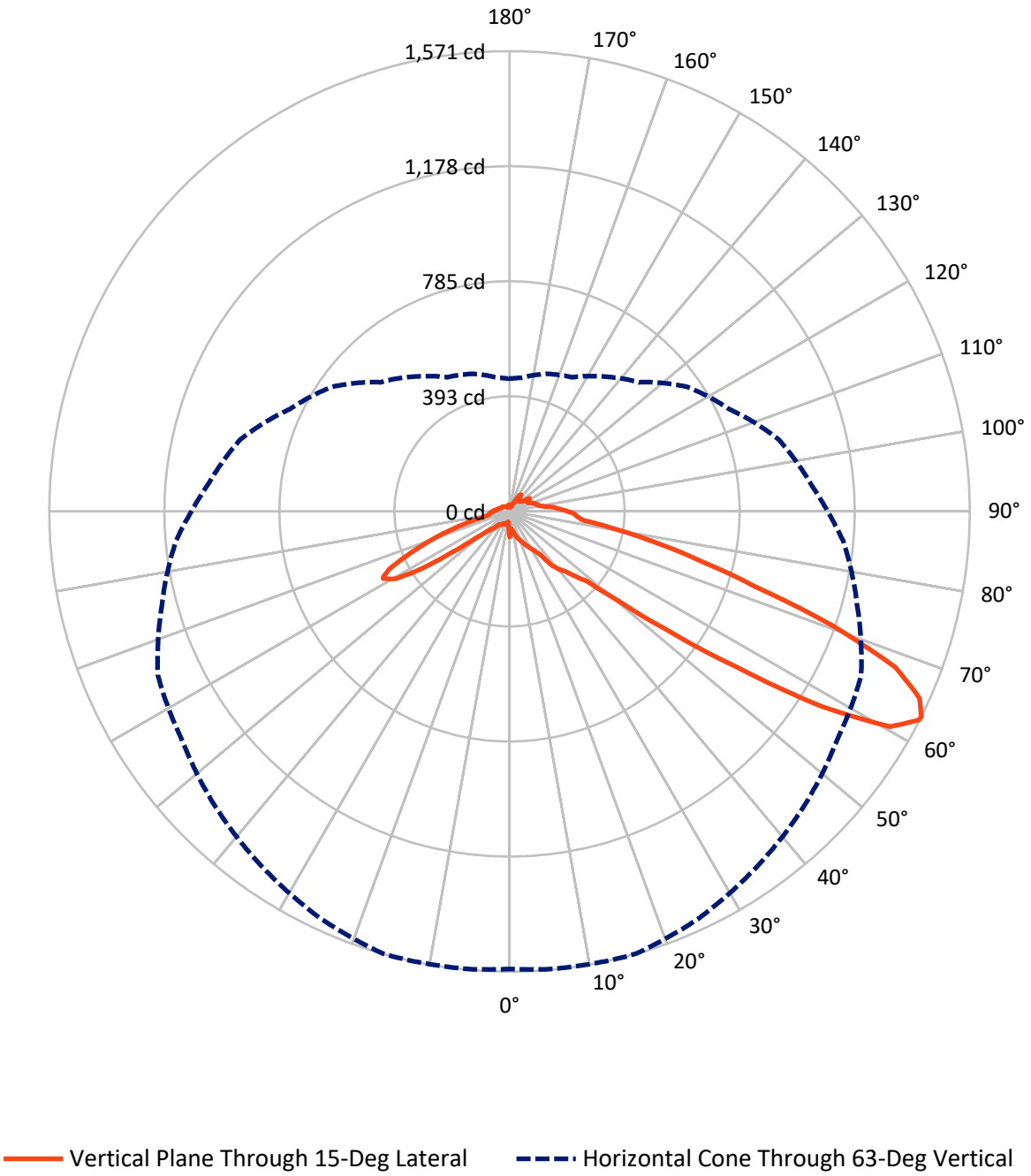
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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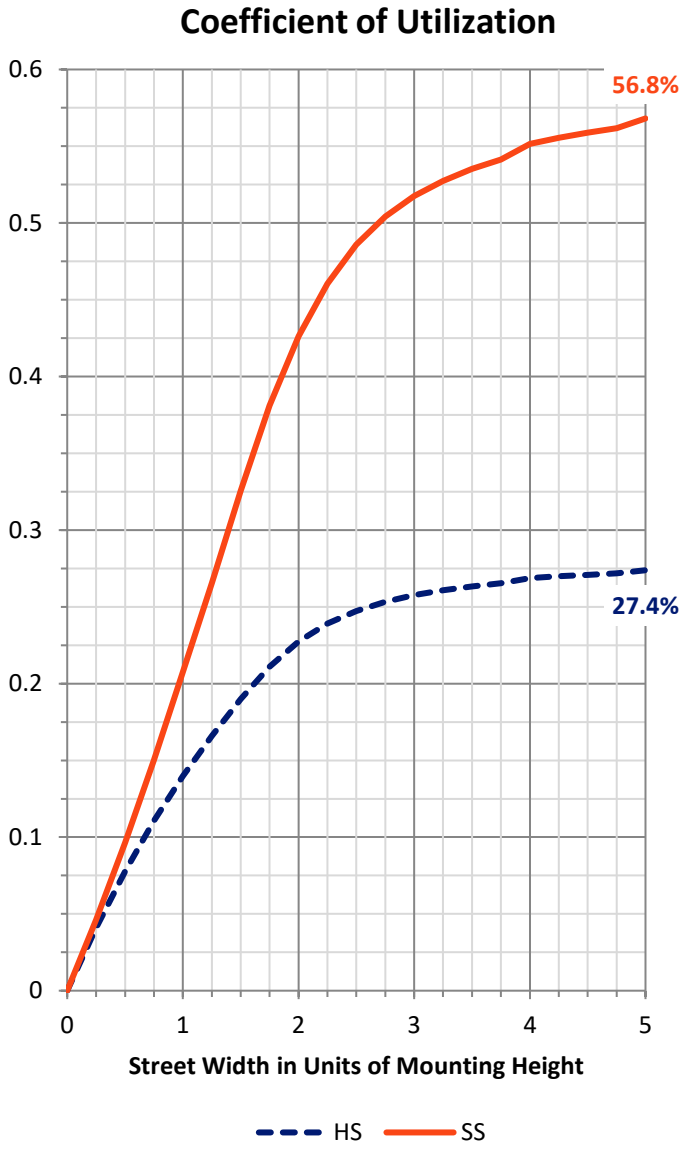
REPORT NUMBER: P1046424
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	837.2	136.4	973.6
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	1753.0	233.7	1986.7
	% Fixture	59.2	7.9	67.1
Total	Lumens	2590.2	370.1	2960.3
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.2
10°-20°	19.4	0.7
20°-30°	42.0	1.4
30°-40°	86.3	2.9
40°-50°	178.0	6.0
50°-60°	585.6	19.8
60°-70°	969.6	32.8
70°-80°	508.6	17.2
80°-90°	195.3	6.6
90°-100°	118.0	4.0
100°-110°	74.3	2.5
110°-120°	55.0	1.9
120°-130°	46.8	1.6
130°-140°	30.5	1.0
140°-150°	26.6	0.9
150°-160°	12.1	0.4
160°-170°	5.0	0.2
170°-180°	1.7	0.1
0°-90°	2590.2	87.5
0°-180°	2960.3	100.0



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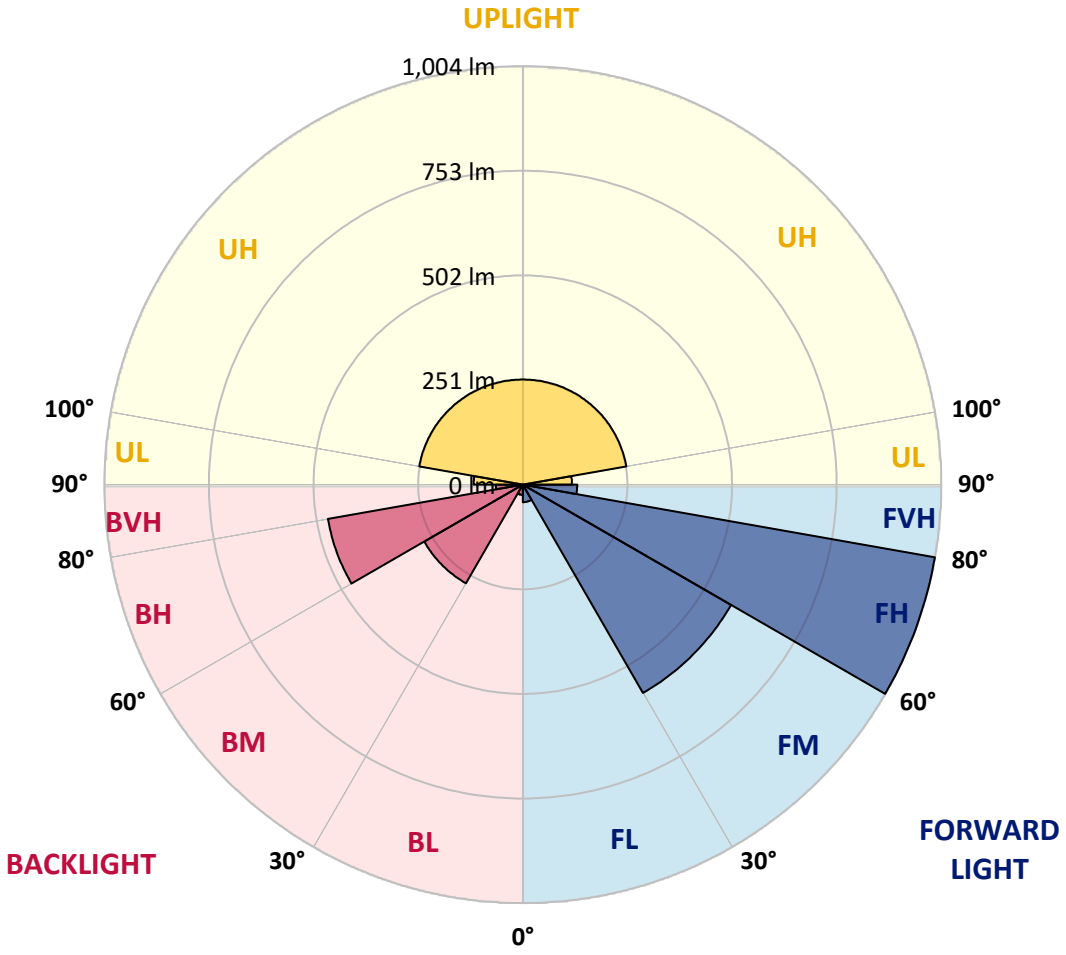
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	42.1	1.4			
FM	(30°-60°)	576.8	19.5			
FH	(60°-80°)	1003.6	33.9			G1/1800
FVH	(80°-90°)	130.5	4.4			G2/225
BL	(0°-30°)	24.6	0.8	B0/110		
BM	(30°-60°)	273.2	9.2	B1/1000		
BH	(60°-80°)	474.6	16.0	B1/500		G1/500
BVH	(80°-90°)	64.8	2.2			G1/100
UL	(90°-100°)	118.0	4.0		U3/500	
UH	(100°-180°)	252.1	8.5		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
2.5°	53.8	53.8	61.6	62.9	70.3	72.7	68.6	65.5	73.1	88.6	91.1
5°	58.5	59.6	59.5	59.3	59.6	66.6	73.8	70.5	57.9	46.0	46.0
7.5°	66.3	66.6	66.4	66.3	63.7	59.6	57.9	63.1	66.4	56.5	47.4
10°	71.7	71.3	71.1	70.9	71.3	72.9	72.3	65.9	59.5	56.1	54.2
12.5°	82.0	82.2	81.6	81.2	80.8	80.2	79.7	81.0	77.5	68.0	61.6
15°	89.8	89.8	91.3	90.9	90.9	89.0	86.3	82.4	77.7	75.2	69.6
17.5°	97.9	98.1	97.9	97.9	97.1	94.6	91.7	88.2	83.3	79.1	74.2
20°	105.9	105.9	105.7	105.5	105.3	103.4	99.7	95.0	90.5	86.5	81.4
22.5°	114.2	114.8	115.2	114.8	114.2	112.3	108.2	103.7	99.5	93.6	88.2
25°	126.1	126.3	125.9	125.5	124.7	122.2	119.1	114.4	109.2	103.0	95.8
27.5°	137.4	137.8	137.6	137.6	136.0	133.9	130.8	124.5	118.7	111.5	104.1
30°	150.2	149.8	148.8	149.0	148.0	146.3	142.8	137.4	130.0	121.4	113.3
32.5°	162.8	162.8	161.5	160.9	160.9	158.5	154.7	149.0	142.0	132.9	124.9
35°	176.6	180.1	183.6	185.0	185.0	181.7	177.0	169.6	163.6	154.1	144.2
37.5°	242.9	240.7	232.2	233.1	230.2	228.9	225.8	219.5	211.2	196.6	181.5
40°	266.2	265.8	259.4	258.6	257.2	252.8	249.5	245.2	242.3	224.8	202.1
42.5°	270.3	272.4	280.9	283.1	294.2	287.4	274.1	250.0	244.0	230.8	221.3
45°	316.1	316.9	316.9	317.3	314.4	309.3	307.6	292.2	280.2	261.1	243.2
47.5°	361.8	363.5	356.7	362.2	369.7	359.4	354.8	342.1	325.6	310.9	281.5
50°	467.8	474.6	476.0	476.2	479.5	478.7	471.7	454.2	437.7	403.9	371.3
52.5°	664.3	670.9	673.8	666.8	656.5	651.8	653.6	646.4	608.1	571.8	505.5
55°	920.7	932.2	932.2	939.6	936.5	914.3	913.0	865.9	804.2	763.7	706.0
57.5°	1263.8	1246.6	1256.3	1266.8	1245.4	1222.1	1187.3	1138.1	1047.8	978.0	894.5
60°	1518.2	1511.2	1491.9	1480.1	1426.7	1380.4	1353.0	1317.1	1248.5	1156.8	1045.1
62.5°	1564.8	1569.8	1568.5	1568.5	1525.7	1470.4	1415.0	1362.3	1319.8	1225.4	1137.0
63°	1561.9	1568.1	1570.6	1569.8	1531.4	1476.8	1421.8	1363.7	1324.3	1227.9	1142.4
65°	1537.0	1542.3	1537.8	1536.2	1511.9	1475.0	1413.2	1355.7	1319.8	1216.6	1143.2
67.5°	1437.1	1436.0	1419.3	1426.8	1411.5	1390.9	1333.2	1276.5	1251.6	1138.9	1071.3
70°	1160.7	1152.5	1170.8	1181.7	1164.9	1156.8	1088.2	1050.9	1018.8	933.2	878.6
72.5°	887.3	870.4	873.5	883.4	862.4	856.8	827.5	796.8	781.4	728.0	667.4
75°	695.7	686.6	669.7	672.4	655.1	649.5	646.4	637.5	631.4	586.9	526.9
77.5°	520.3	519.9	505.7	503.6	491.2	500.5	496.8	510.2	507.3	471.9	426.3
80°	364.1	362.0	365.6	364.3	361.4	366.8	361.0	368.4	368.4	345.2	326.0
82.5°	237.6	241.9	253.5	256.3	260.5	273.4	252.8	241.9	239.0	236.4	227.1
85°	235.9	237.0	232.0	232.6	230.6	225.8	229.5	231.2	228.3	214.3	193.7
87.5°	222.3	223.8	219.7	220.9	213.7	215.3	217.6	219.0	217.6	205.2	188.1
90°	187.3	189.0	192.7	192.7	193.3	193.7	190.0	192.2	190.8	178.9	166.5
92.5°	166.1	167.7	167.9	168.1	166.5	171.6	165.5	161.8	160.9	151.4	142.4
95°	151.9	150.2	149.8	150.2	149.4	149.2	145.3	142.6	141.4	133.9	125.1
97.5°	118.9	119.9	119.5	120.5	118.5	118.3	115.0	111.5	110.4	104.1	98.3
100°	104.3	104.1	104.5	104.7	103.6	102.2	99.9	97.3	96.0	91.3	85.7
102.5°	97.9	97.7	98.5	98.7	97.7	96.8	94.8	93.3	92.1	87.8	81.6
105°	93.8	93.3	94.2	94.2	92.1	91.5	90.1	90.0	89.2	84.1	78.1
107.5°	88.2	87.2	88.4	88.2	87.4	86.8	85.7	84.9	84.3	80.0	73.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	83.0	81.6	*82.2*	82.6	83.2	82.8	81.8	80.2	78.7	75.2	69.6
112.5°	73.2	74.0	*73.8*	73.8	74.4	74.6	72.9	71.9	70.9	68.2	64.5
115°	69.6	69.6	*69.6*	69.6	68.0	67.4	65.7	64.5	64.3	61.0	58.7
117.5°	66.6	67.0	*68.0*	68.6	70.5	69.4	65.5	62.9	62.0	60.6	58.1
120°	78.5	77.1	*75.8*	75.6	75.8	75.0	74.2	72.5	70.1	66.4	59.5
122.5°	84.1	80.6	*81.2*	81.0	79.7	80.2	80.4	80.6	79.1	73.2	62.4
125°	70.5	69.6	*70.1*	70.7	70.9	70.7	70.3	72.1	69.9	68.0	59.8
127.5°	56.3	56.0	*54.8*	54.6	54.2	54.4	54.4	55.0	53.0	51.1	50.7
130°	53.6	52.8	*53.0*	53.2	53.0	51.9	51.1	50.1	49.9	48.0	45.3
132.5°	48.6	49.0	*52.3*	52.7	55.0	53.6	49.5	46.8	47.2	48.2	47.2
135°	45.5	45.3	*47.8*	48.0	51.5	50.5	47.2	44.1	44.1	46.4	45.5
137.5°	46.4	46.8	*47.0*	47.2	47.0	46.8	46.6	45.3	44.3	44.1	41.8
140°	49.9	49.7	*47.8*	48.0	47.8	47.8	49.0	49.9	46.6	43.7	39.8
142.5°	52.3	52.8	*52.1*	53.0	54.8	53.2	51.3	48.8	46.8	44.9	42.5
145°	70.9	69.6	*69.0*	68.6	67.4	64.1	62.2	59.6	57.3	54.2	50.3
147.5°	64.3	64.7	*63.5*	63.9	62.4	61.2	60.8	61.0	60.2	58.5	54.4
150°	51.1	51.5	*50.3*	49.7	49.2	49.2	49.2	49.5	48.6	47.4	45.5
152.5°	35.7	35.4	*35.0*	34.8	34.4	34.0	34.0	34.2	33.2	32.8	31.3
155°	32.8	32.6	*31.1*	30.7	31.1	31.5	31.7	31.1	30.3	29.5	27.4
157.5°	25.6	25.1	*24.9*	25.3	25.3	25.1	24.7	25.1	24.3	24.1	23.7
160°	21.0	20.8	*21.0*	21.0	21.2	21.2	21.0	21.0	20.6	20.8	20.8
162.5°	17.9	17.9	*17.9*	17.7	18.1	18.3	18.1	18.1	18.3	18.8	19.2
165°	15.3	15.3	*15.5*	15.5	15.7	15.7	15.9	16.1	16.5	17.9	19.0
167.5°	14.4	14.4	*14.6*	14.6	14.8	15.0	15.3	16.1	17.3	18.8	19.4
170°	14.2	14.2	*14.2*	14.2	14.4	14.6	15.3	16.5	17.9	18.8	18.3
172.5°	14.8	14.8	*15.0*	15.0	15.0	15.7	16.3	17.3	18.1	18.3	17.7
175°	15.3	15.2	*15.3*	15.3	15.5	16.1	16.9	17.3	17.7	17.9	18.1
177.5°	15.0	15.0	*15.0*	15.2	15.2	15.3	15.7	15.9	16.3	16.7	17.3
180°	14.6	14.6	*14.6*	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
2.5°	91.1	88.6	69.0	59.1	67.4	83.7	85.3	73.8	57.3	39.8	36.3
5°	48.6	51.3	57.3	57.1	53.2	49.7	45.5	42.7	47.2	45.3	46.4
7.5°	43.9	41.4	42.4	49.5	48.4	36.7	33.2	32.4	36.3	45.3	44.3
10°	53.4	52.7	49.7	43.9	42.0	43.5	44.9	43.9	40.4	35.2	34.4
12.5°	60.4	59.5	59.8	63.5	59.1	49.0	43.3	41.6	43.5	51.3	52.8
15°	67.2	65.5	62.9	57.7	53.4	50.7	47.4	43.9	45.1	42.9	42.2
17.5°	71.9	69.2	63.9	60.0	55.8	52.3	49.3	45.7	43.1	42.5	42.7
20°	78.1	75.2	69.6	65.1	59.8	55.2	50.1	46.2	43.7	42.7	42.7
22.5°	85.3	81.8	75.4	69.2	63.3	57.3	51.3	47.0	44.7	43.7	43.3
25°	92.9	89.4	81.4	74.8	67.4	60.8	54.6	49.2	46.6	45.5	44.5
27.5°	100.6	96.4	88.4	80.2	72.3	64.5	57.9	52.3	48.8	46.8	47.0
30°	109.2	105.7	96.8	87.4	77.5	68.4	62.0	55.6	51.3	49.2	49.3
32.5°	120.7	115.0	104.3	93.6	83.9	73.8	65.7	58.3	53.6	52.3	52.5
35°	139.7	132.5	119.5	104.9	91.9	80.0	69.7	61.0	55.6	53.4	53.2
37.5°	174.1	164.4	149.4	132.3	113.5	94.2	77.5	64.1	57.3	53.8	53.2
40°	190.8	177.6	158.7	144.0	131.1	114.6	95.6	75.4	60.2	55.8	55.2
42.5°	213.1	202.1	177.6	148.8	131.7	117.9	104.5	91.5	72.7	61.0	58.9
45°	234.7	224.8	205.6	177.4	151.9	130.4	110.4	96.2	84.5	72.7	71.7
47.5°	271.0	260.5	228.5	203.4	176.6	152.1	131.1	107.8	92.7	84.3	84.3
50°	362.2	342.9	311.2	272.8	229.6	190.0	160.3	131.7	113.5	100.8	100.3
52.5°	489.4	462.2	415.6	373.0	322.1	276.3	230.0	180.3	153.7	135.4	135.2
55°	673.2	645.4	583.1	501.3	438.9	384.1	336.1	281.5	239.6	210.0	207.7
57.5°	869.2	845.9	782.4	680.8	582.5	485.5	427.4	383.9	363.7	343.1	338.8
60°	996.3	956.3	898.4	801.4	706.2	582.7	510.6	460.7	453.9	449.4	443.8
62.5°	1076.4	1029.1	943.1	826.9	739.5	622.5	558.0	504.8	488.8	464.9	458.1
63°	*1085.5*	*1034.2*	*950.3*	*826.3*	*740.4*	*623.1*	*561.5*	*504.8*	*486.1*	*457.4*	*452.9*
65°	1081.2	1033.6	949.9	814.3	717.9	611.6	551.4	481.6	451.9	413.8	406.3
67.5°	1015.9	965.2	886.3	753.1	666.0	557.6	491.4	417.3	372.3	335.0	326.2
70°	827.1	795.6	726.2	611.0	545.0	460.5	402.4	344.3	295.5	256.3	246.4
72.5°	630.3	597.2	545.2	470.4	421.6	363.5	308.5	263.8	223.6	197.6	198.4
75°	500.1	468.6	425.7	376.5	336.7	285.0	230.6	186.3	157.8	142.2	140.9
77.5°	402.8	381.0	343.5	298.2	263.8	209.8	161.5	122.8	101.6	92.7	90.1
80°	310.5	295.3	267.3	227.5	191.8	147.5	110.0	86.8	75.6	68.0	66.6
82.5°	220.9	211.8	188.5	160.7	136.4	113.3	96.4	81.2	69.6	63.1	61.2
85°	184.4	175.8	161.1	143.8	128.2	111.3	93.5	77.3	66.4	61.4	58.9
87.5°	178.9	171.0	156.8	138.3	121.4	103.2	85.1	69.9	62.2	57.3	55.8
90°	160.3	154.3	141.8	124.9	108.0	89.4	73.6	62.9	56.9	53.0	51.3
92.5°	138.1	132.9	122.6	108.4	94.2	80.8	68.8	59.8	53.8	49.9	48.6
95°	120.1	116.8	108.2	96.2	85.9	74.8	64.5	56.0	49.7	46.2	44.9
97.5°	95.8	91.9	85.7	77.3	69.6	61.8	54.2	48.4	43.9	41.6	40.4
100°	83.3	80.8	75.2	68.6	62.0	55.2	49.3	44.9	42.0	40.0	39.1
102.5°	78.5	76.7	71.5	64.9	58.7	52.1	46.2	42.2	40.0	38.3	37.5
105°	74.0	72.7	68.6	62.6	56.5	49.3	42.7	39.2	37.3	36.1	35.6
107.5°	69.4	67.8	63.9	58.1	52.8	46.6	40.8	36.5	34.0	32.6	32.4

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

Scaled Data Report

REPORT NUMBER: P1046424
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	65.5	64.3	60.0	55.4	50.3	44.5	39.4	35.0	32.1	30.5	30.3
112.5°	61.4	60.0	55.8	51.3	47.0	42.0	37.5	33.6	30.9	29.3	29.1
115°	56.0	54.8	51.7	47.4	43.9	39.1	35.4	31.9	29.7	28.2	28.0
117.5°	56.5	53.2	49.0	45.1	42.0	38.5	35.2	32.4	29.1	27.4	27.4
120°	57.3	54.2	49.9	46.6	44.9	42.2	37.1	33.2	28.8	27.0	26.8
122.5°	56.5	56.9	54.6	51.3	47.8	43.1	36.9	32.6	28.2	26.8	27.0
125°	54.8	56.5	53.2	48.8	44.1	39.6	34.4	30.5	27.8	26.8	26.6
127.5°	49.5	49.2	44.9	41.6	38.3	34.6	31.3	28.9	27.0	25.8	25.3
130°	43.7	43.5	41.8	39.1	35.7	32.4	29.5	28.0	26.0	24.5	24.1
132.5°	46.0	45.5	41.8	37.3	33.6	30.9	28.9	27.2	24.5	22.7	22.5
135°	43.5	43.1	39.4	35.0	31.7	30.3	28.9	26.4	23.1	21.8	21.6
137.5°	39.8	38.3	35.2	32.4	30.9	30.5	28.8	25.8	22.7	21.2	21.0
140°	37.9	36.7	34.4	32.6	30.9	28.8	26.2	23.5	21.4	20.2	20.0
142.5°	40.2	39.8	36.3	33.2	30.5	28.0	25.3	23.5	21.2	19.6	19.4
145°	47.6	45.7	41.4	37.1	34.8	31.5	28.0	24.3	20.0	17.7	17.1
147.5°	52.1	50.3	46.0	41.4	36.3	31.1	25.6	21.0	17.7	15.9	15.5
150°	43.1	42.4	39.6	35.4	31.1	26.2	21.8	18.5	16.3	15.2	15.2
152.5°	30.3	30.1	28.9	26.4	23.7	21.0	18.7	16.7	15.5	14.8	14.8
155°	26.8	26.4	25.6	23.3	21.4	19.0	17.3	16.1	15.3	14.8	14.8
157.5°	23.1	22.7	22.5	20.8	19.2	17.7	16.3	15.3	14.8	14.4	14.2
160°	20.6	20.0	19.4	18.5	17.5	16.7	16.1	15.3	14.8	14.4	14.4
162.5°	19.2	18.8	17.9	17.1	16.7	16.7	16.9	16.5	15.3	14.8	14.6
165°	19.2	18.7	17.3	16.5	16.5	17.5	18.5	17.7	16.7	15.5	15.3
167.5°	19.4	19.0	17.7	17.1	17.7	18.8	19.8	19.6	18.3	17.3	17.3
170°	18.1	17.9	18.1	18.7	19.2	19.4	19.8	19.6	20.0	21.4	21.4
172.5°	17.5	17.7	18.7	19.6	20.8	20.8	19.8	19.6	21.4	23.3	23.7
175°	18.3	18.7	19.6	20.8	21.8	21.8	20.8	21.0	22.7	24.5	24.9
177.5°	17.5	17.7	18.1	17.9	18.3	17.3	17.7	17.3	17.9	17.9	17.9
180°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6

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

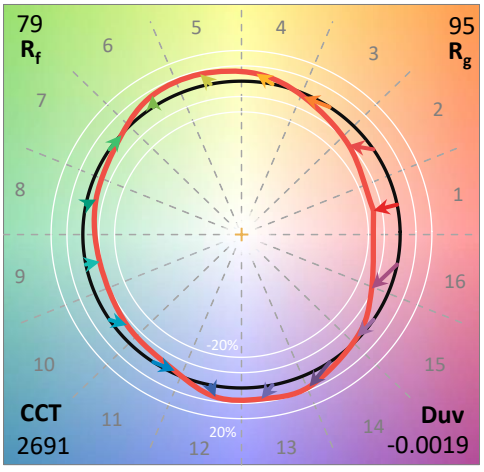
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

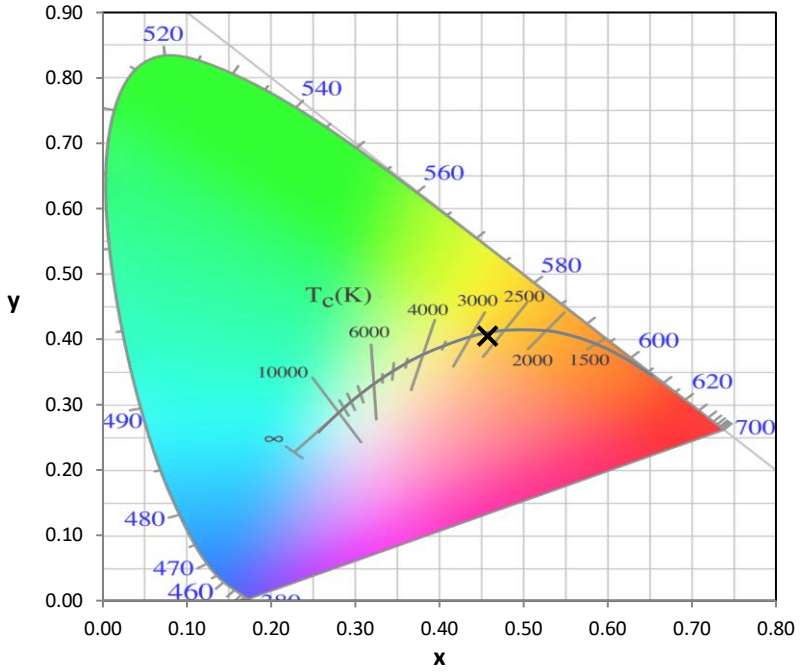
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

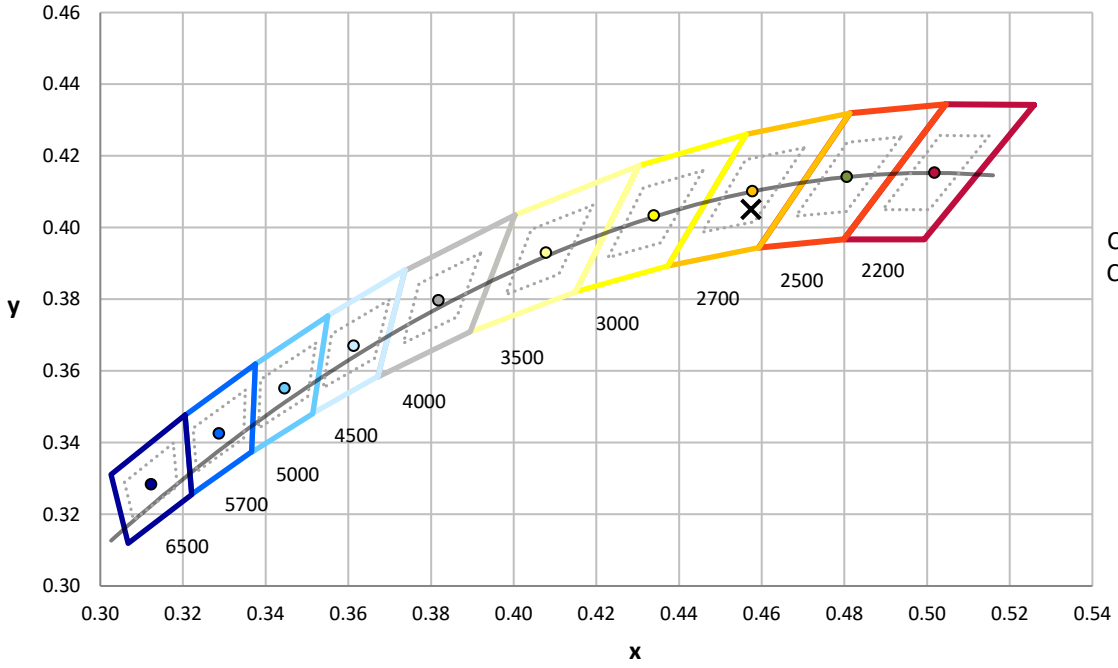
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

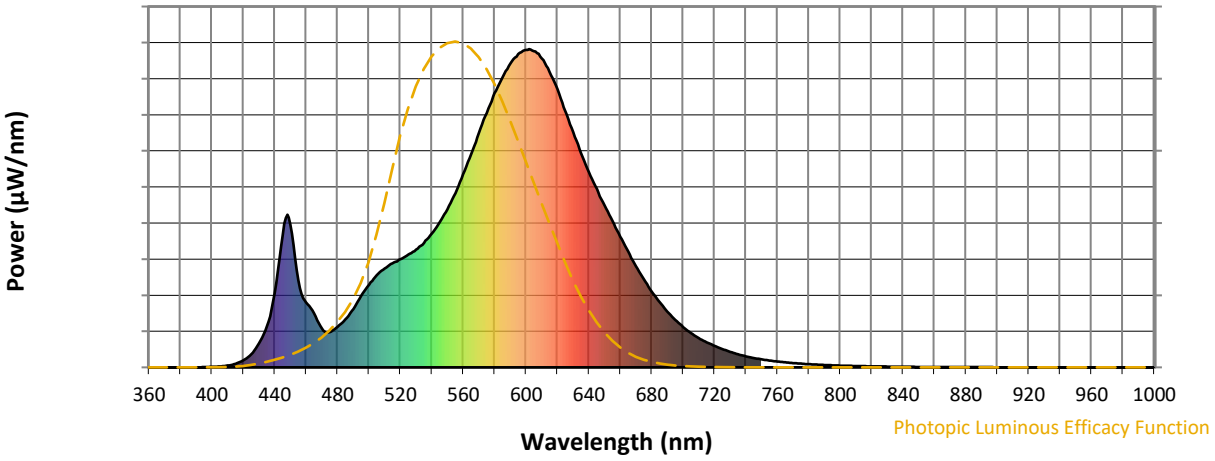


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

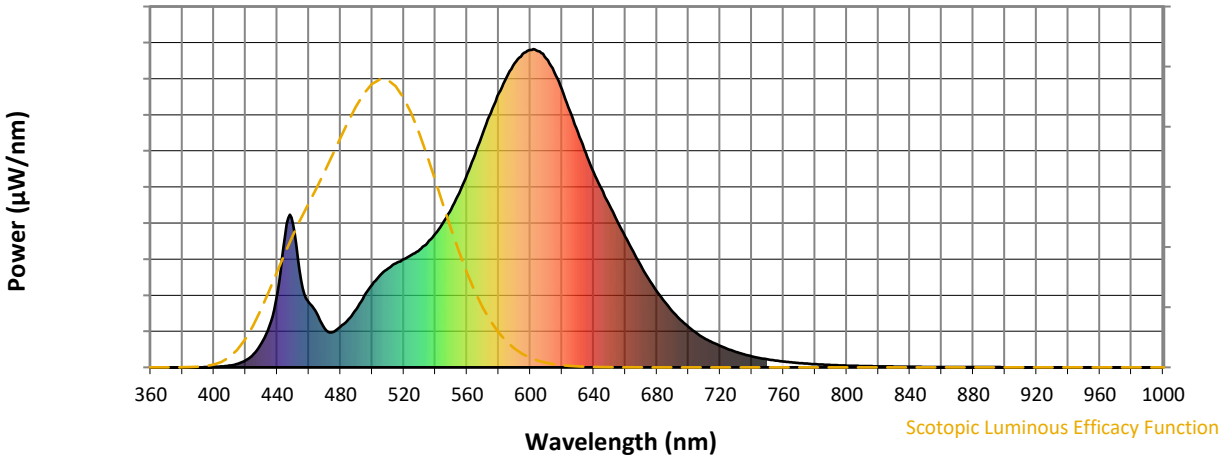


Photopic Lumens: NR

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

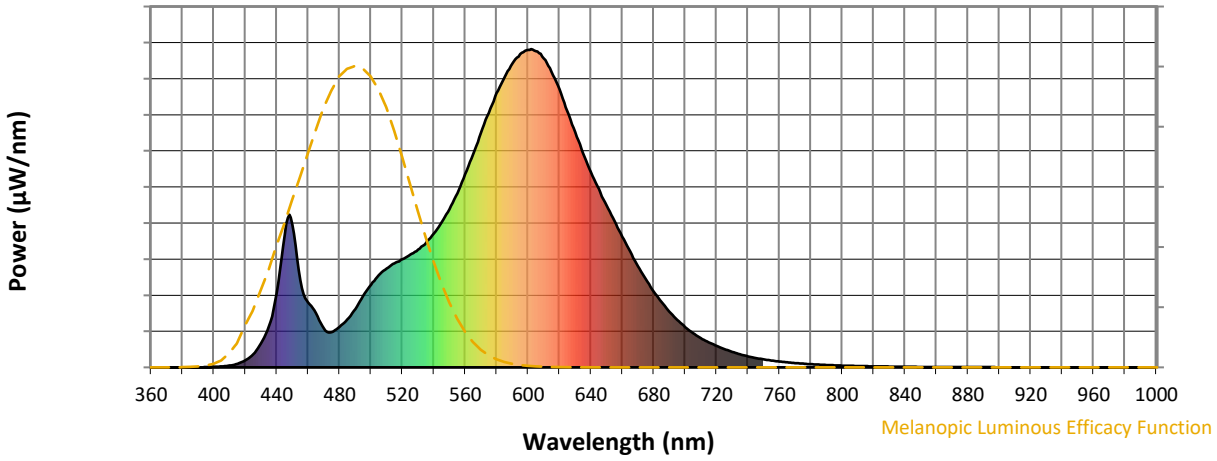


Scotopic Lumens: NR **S/P: 1.18**

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			

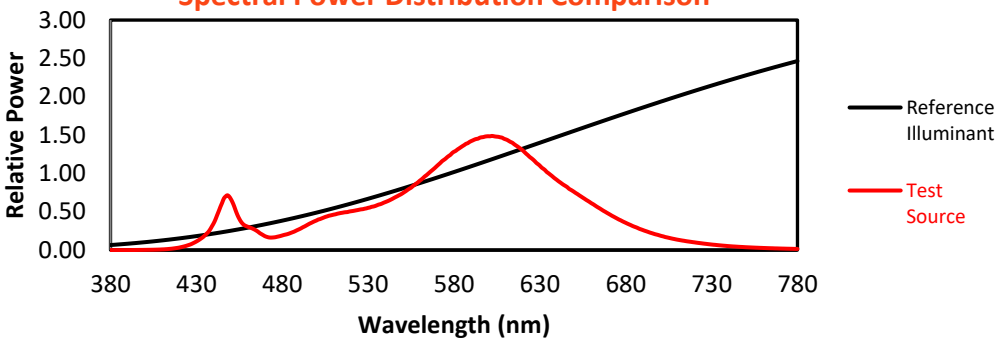
REPORT NUMBER: SP1-2501-332-8

TM-30-18

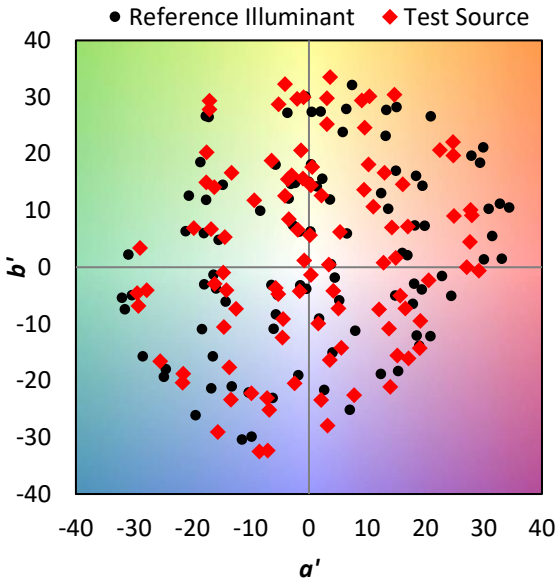
Summary

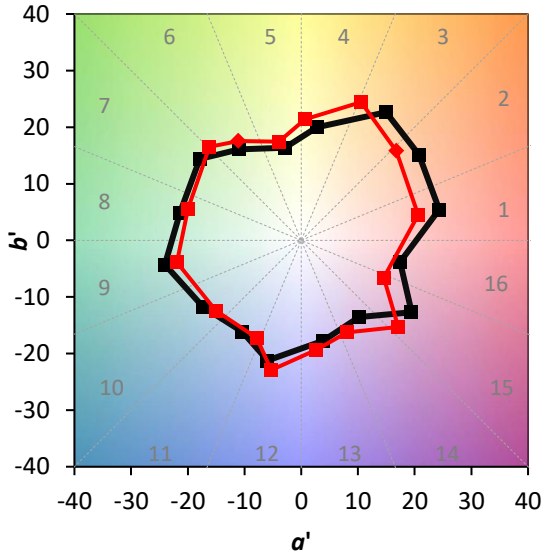
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

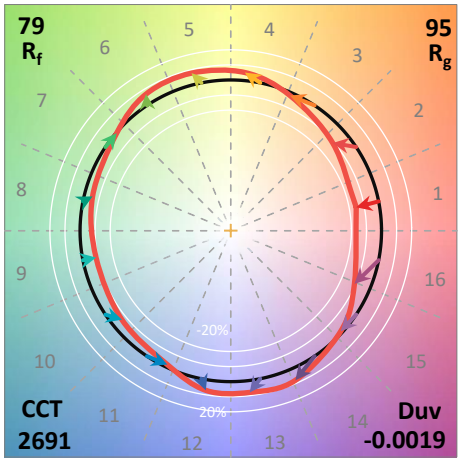
Spectral Power Distribution Comparison

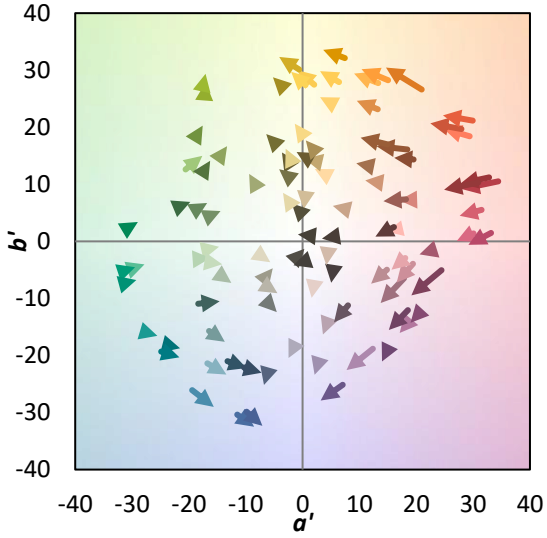


Color Vector Graphics







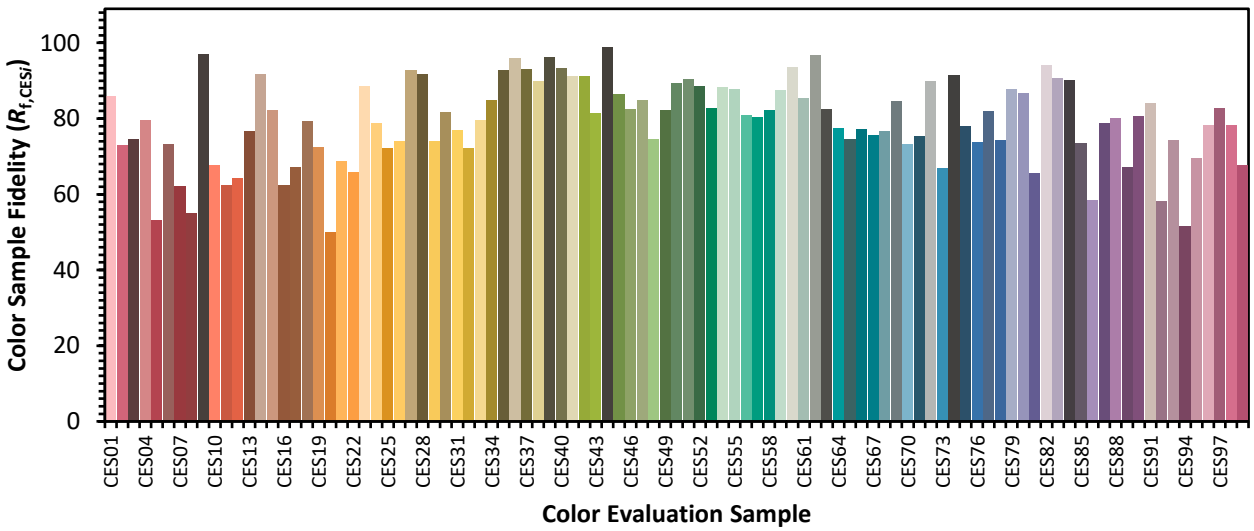


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

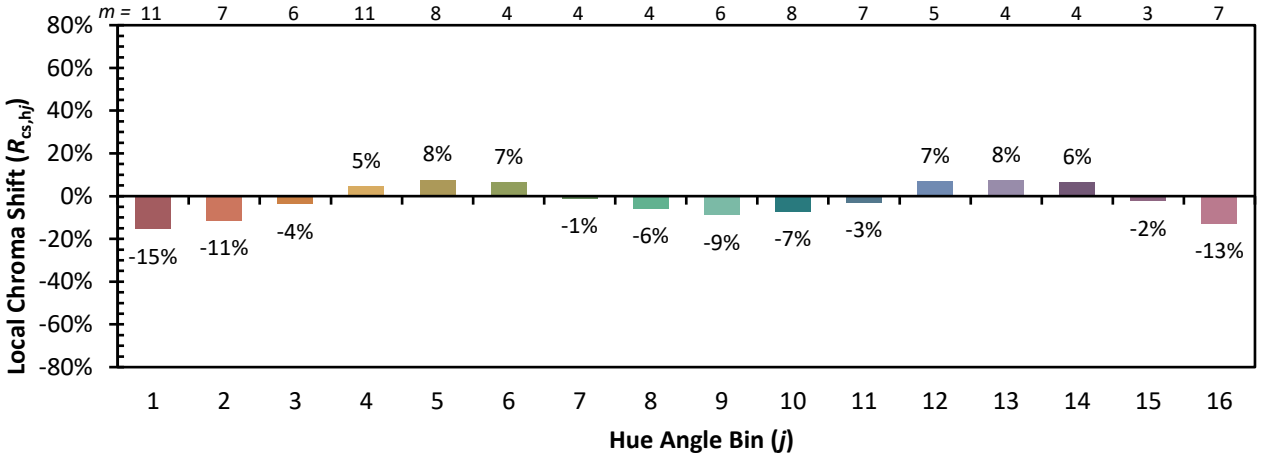
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 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	

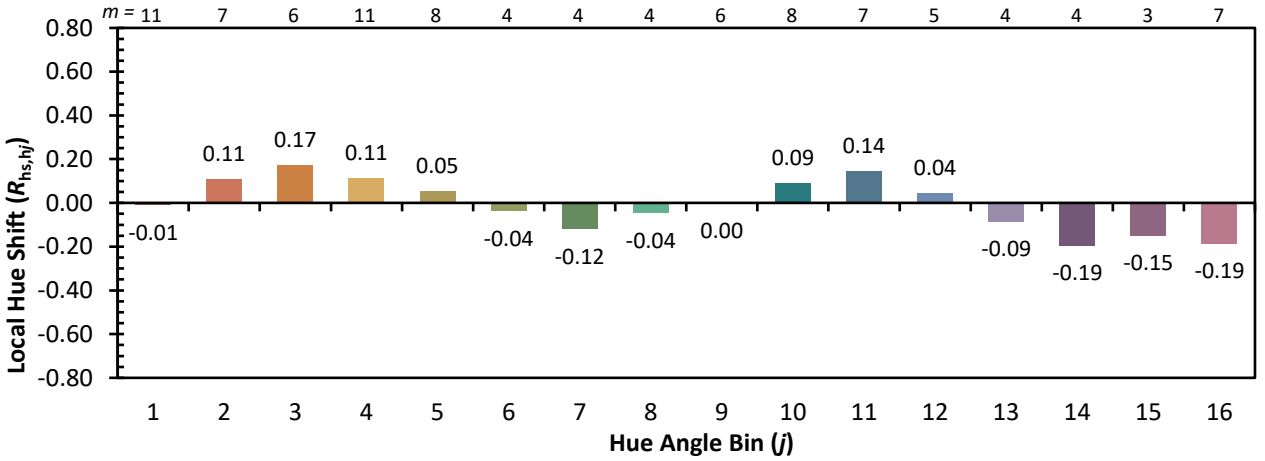


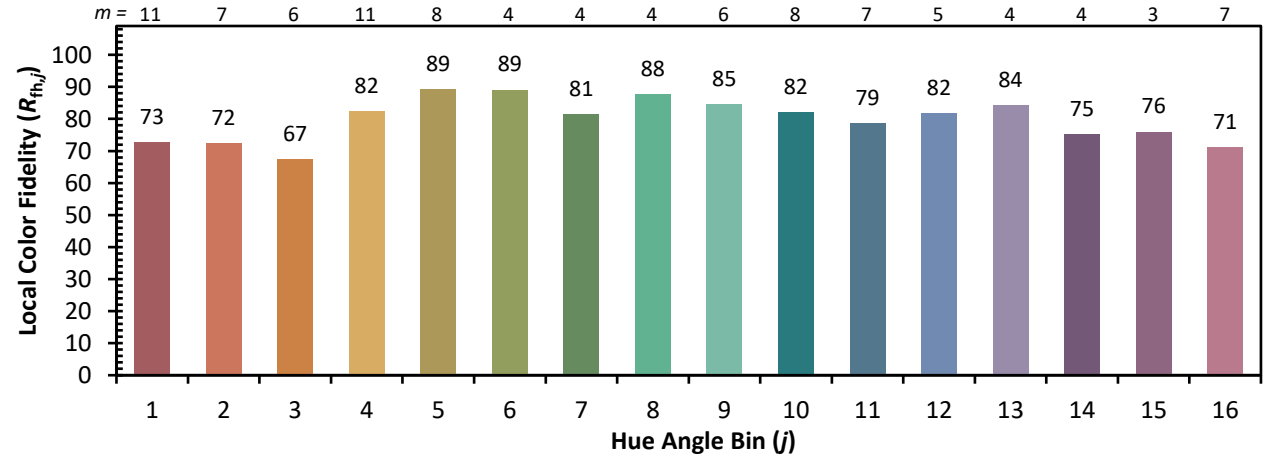
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Color Rendition by Hue-Angle Bin



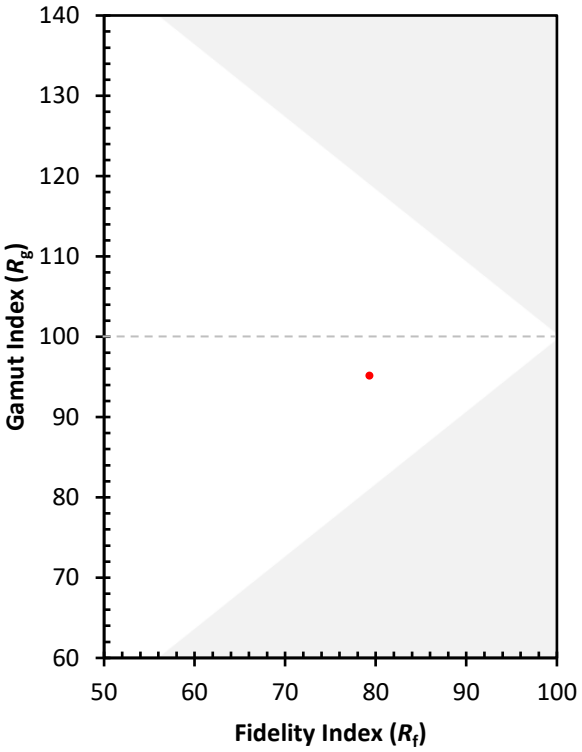


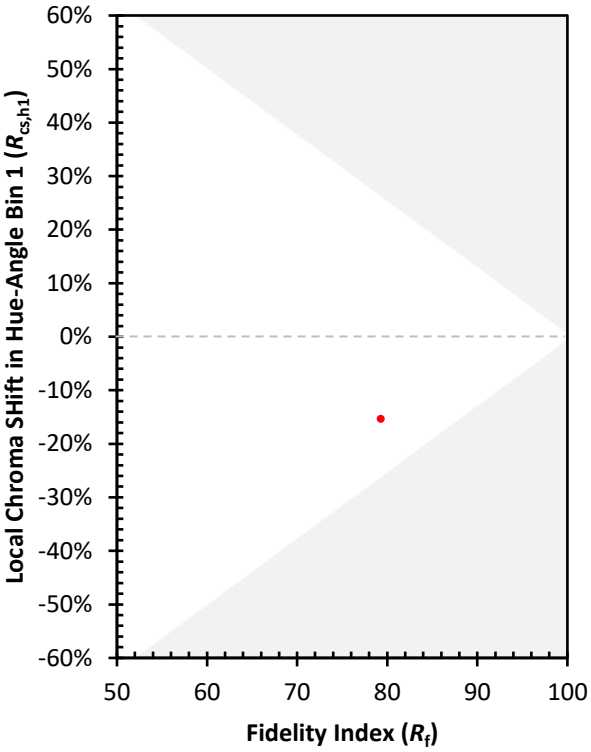


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Measure Comparisons





(END OF REPORT)