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: P1045792

Luminaire Tested: **FFX-CLB-40-727-U-FR-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045792
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-727-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3970 lumens
Efficiency:	N/A
Efficacy:	100.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G2

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

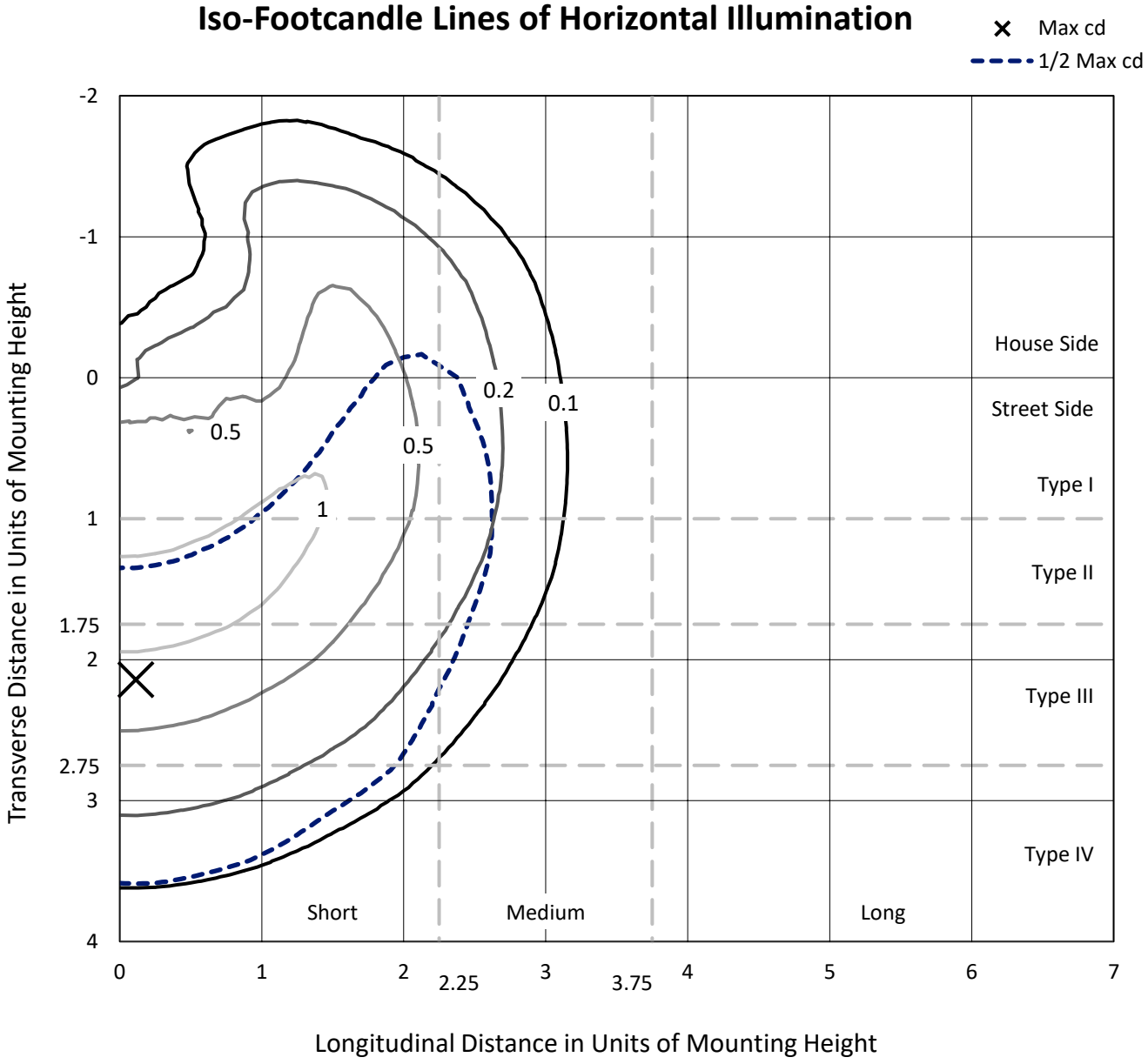


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Iso-Footcandle Lines of Horizontal Illumination



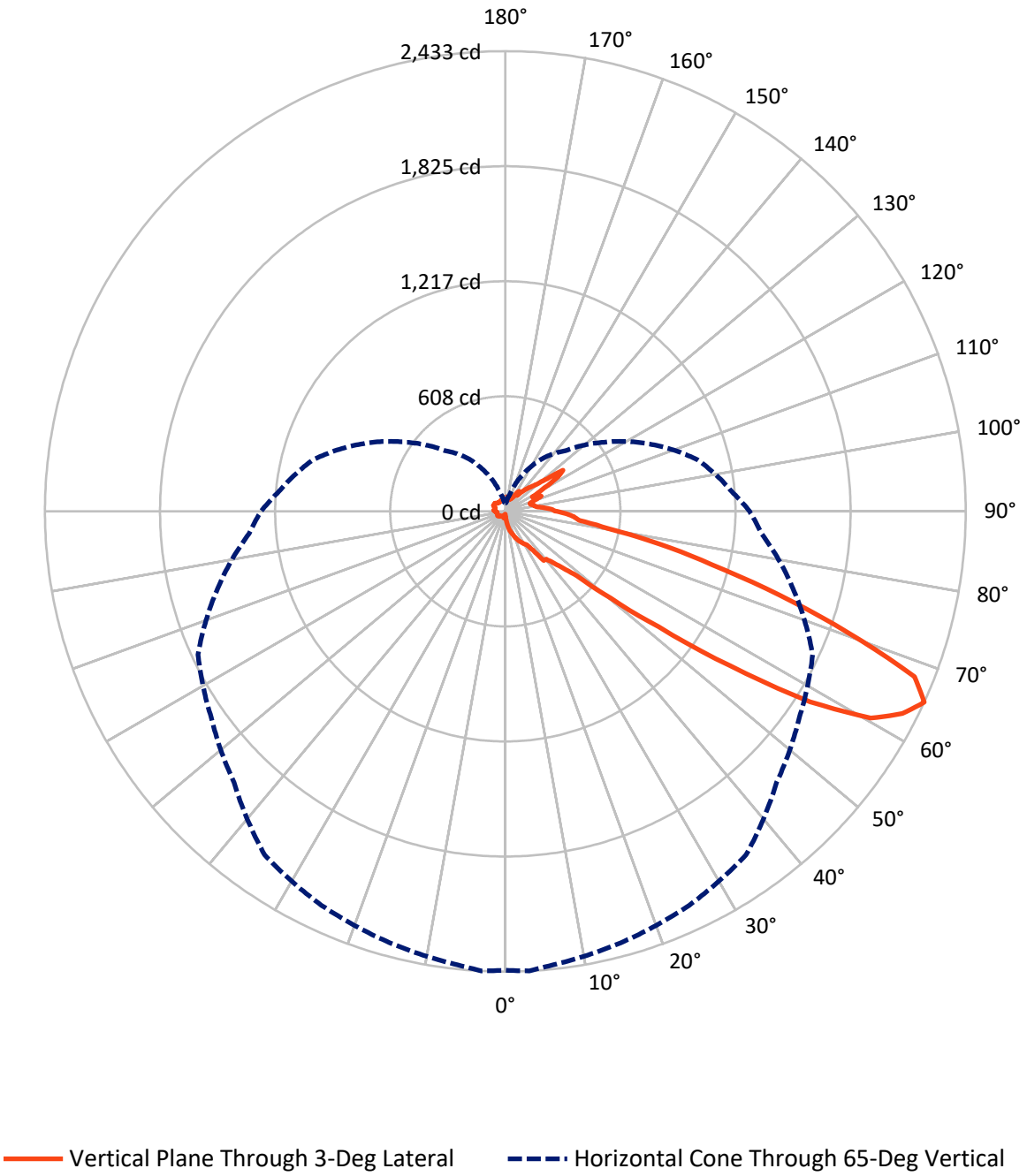
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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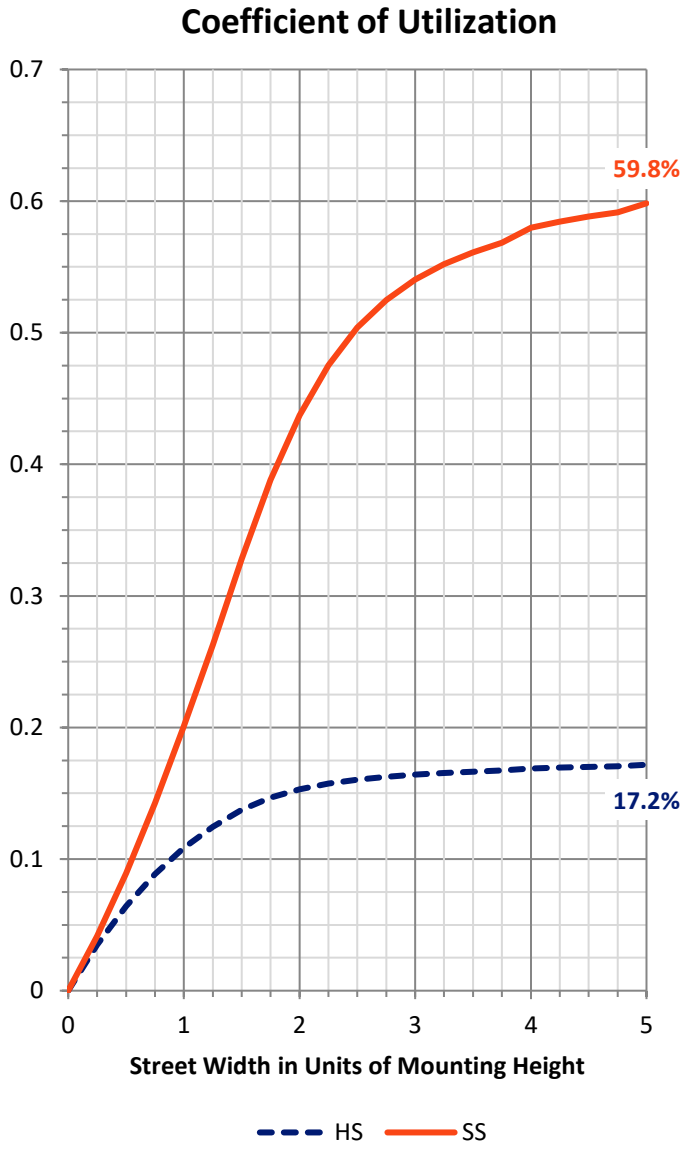
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	707.7	275.5	983.3
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	2474.1	512.7	2986.8
	% Fixture	62.3	12.9	75.2
Total	Lumens	3181.8	788.2	3970.0
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	22.5	0.6
20°-30°	49.5	1.2
30°-40°	98.9	2.5
40°-50°	213.4	5.4
50°-60°	729.6	18.4
60°-70°	1185.6	29.9
70°-80°	637.9	16.1
80°-90°	240.4	6.1
90°-100°	151.7	3.8
100°-110°	107.8	2.7
110°-120°	119.0	3.0
120°-130°	181.7	4.6
130°-140°	109.0	2.7
140°-150°	60.2	1.5
150°-160°	33.5	0.8
160°-170°	18.6	0.5
170°-180°	6.8	0.2
0°-90°	3181.8	80.1
0°-180°	3970.0	100.0



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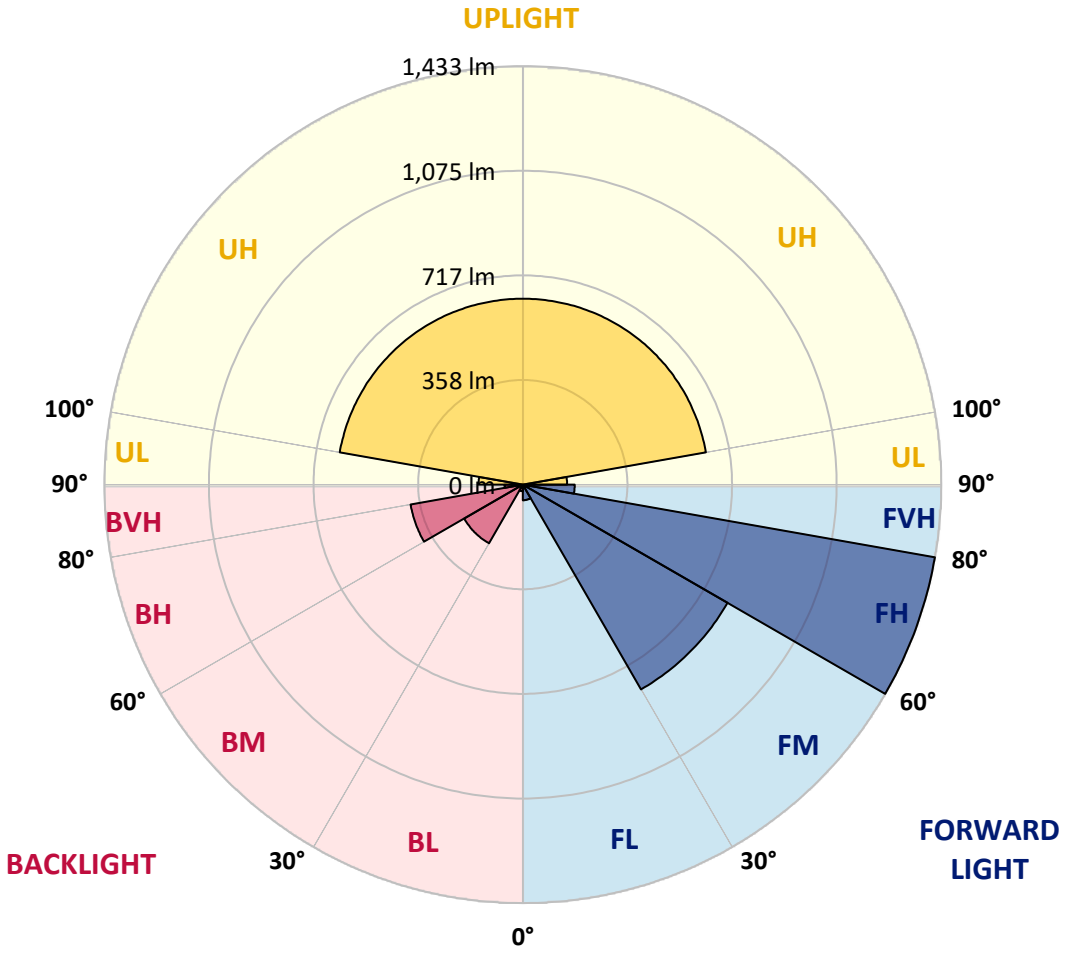
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	53.5	1.3			
FM	(30°-60°)	809.8	20.4			
FH	(60°-80°)	1433.1	36.1			G1/1800
FVH	(80°-90°)	177.6	4.5			G2/225
BL	(0°-30°)	22.6	0.6	B0/110		
BM	(30°-60°)	232.1	5.8	B1/1000		
BH	(60°-80°)	390.4	9.8	B1/500		G1/500
BVH	(80°-90°)	62.7	1.6			G1/100
UL	(90°-100°)	151.7	3.8		U3/500	
UH	(100°-180°)	636.6	16.0		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
2.5°	31.6	32.0	32.0	32.0	32.9	33.4	32.9	31.6	29.8	28.9	28.0
5°	45.8	46.7	46.3	46.3	45.4	45.4	44.0	43.1	42.2	39.1	36.0
7.5°	63.6	62.7	62.3	61.4	61.8	59.6	57.8	57.8	56.5	53.4	48.5
10°	82.3	82.3	80.9	80.5	79.6	78.7	75.6	73.8	73.8	68.5	62.7
12.5°	102.7	102.3	102.7	101.8	100.5	98.3	94.7	90.7	88.5	83.6	75.2
15°	116.1	115.6	115.6	115.2	114.3	112.1	109.4	105.4	99.6	94.7	86.7
17.5°	130.3	129.4	129.4	127.2	125.4	122.7	120.5	116.5	109.4	100.5	92.9
20°	145.9	145.9	145.9	142.8	139.2	135.6	132.5	129.0	123.6	110.3	99.6
22.5°	160.5	161.0	160.5	157.4	154.3	148.5	143.6	139.2	133.9	120.5	107.6
25°	174.8	175.7	175.2	175.2	171.2	163.7	157.0	150.3	146.8	133.4	115.6
27.5°	187.2	187.7	188.1	190.3	188.1	179.7	169.0	161.0	158.3	143.6	122.3
30°	199.2	200.6	200.6	202.8	202.3	193.0	180.1	171.2	165.9	151.6	129.0
32.5°	210.8	211.7	212.1	217.5	217.0	204.6	193.5	183.7	174.8	164.1	140.5
35°	252.6	251.3	257.9	261.9	258.8	247.7	234.4	216.1	203.7	191.2	165.9
37.5°	330.4	329.5	329.5	320.6	308.2	295.3	291.7	272.6	257.5	241.5	206.8
40°	332.6	332.6	334.0	343.8	350.0	333.5	318.0	299.3	296.2	279.7	237.5
42.5°	365.1	368.7	372.2	378.9	390.0	379.3	361.6	331.8	317.5	300.6	264.6
45°	420.3	425.6	423.8	426.5	423.8	414.5	413.1	396.7	375.3	342.9	294.4
47.5°	511.4	508.3	506.5	517.2	534.5	517.2	513.2	487.0	446.0	404.7	349.5
50°	735.6	722.2	736.0	733.8	730.7	714.7	702.6	676.4	609.7	542.6	462.9
52.5°	1035.7	1013.9	1026.4	1034.8	1026.0	1003.3	967.3	916.1	826.3	739.6	634.6
55°	1472.0	1441.8	1445.8	1456.4	1462.7	1411.1	1359.5	1246.5	1111.8	977.9	864.1
57.5°	1953.6	1899.4	1935.0	1875.4	1850.9	1758.8	1715.3	1601.0	1442.7	1263.9	1080.2
60°	2224.9	2219.1	2212.5	2166.2	2140.4	2037.2	1935.0	1827.8	1685.9	1474.7	1259.9
62.5°	2342.8	2355.2	2345.4	2321.4	2298.3	2207.6	2029.7	1902.5	1787.3	1570.3	1355.9
65°	2425.9	2433.0	2416.6	2361.0	2298.3	2217.3	2027.5	1897.6	1792.2	1573.4	1359.9
67.5°	2330.7	2332.1	2312.1	2240.0	2112.8	2041.7	1857.6	1744.2	1641.0	1454.2	1254.5
70°	1919.8	1923.8	1911.4	1847.3	1740.6	1678.8	1501.4	1384.8	1307.0	1178.0	1030.8
72.5°	1496.5	1513.8	1496.0	1470.7	1369.3	1323.5	1204.3	1110.0	1038.4	917.0	798.3
75°	1125.1	1129.1	1129.6	1101.1	1047.7	1037.5	955.7	893.4	831.2	731.6	644.4
77.5°	816.1	833.8	827.6	822.7	752.9	756.9	724.4	687.5	648.4	582.1	519.9
80°	541.7	551.0	539.9	542.6	533.2	531.0	500.7	475.8	451.8	421.1	396.7
82.5°	394.9	393.1	392.2	387.3	380.2	381.6	366.4	335.8	306.9	300.6	277.9
85°	365.1	363.8	362.4	353.5	338.4	329.1	320.6	308.2	290.4	262.4	233.0
87.5°	319.3	319.7	316.6	307.3	297.5	294.8	288.2	280.2	271.3	250.4	224.6
90°	262.8	261.5	261.9	256.6	258.4	257.5	247.3	237.5	233.9	216.1	201.0
92.5°	242.8	241.5	241.9	237.9	231.7	230.4	219.2	207.2	201.9	190.8	179.2
95°	202.8	202.8	201.0	199.2	196.1	191.7	185.9	177.9	173.9	165.0	153.4
97.5°	170.3	168.5	169.9	166.8	164.1	162.3	157.9	149.9	145.9	139.2	130.3
100°	158.3	158.3	157.9	156.5	149.9	146.3	141.4	133.9	130.7	125.0	118.3
102.5°	151.6	151.2	150.8	149.4	143.2	137.0	130.7	126.3	122.7	117.8	110.7
105°	138.8	138.8	139.6	139.2	134.7	130.7	124.1	120.1	116.5	111.6	105.0
107.5°	137.4	137.0	137.0	131.6	125.9	123.6	118.7	115.2	112.1	107.2	99.6
110°	157.4	158.3	159.7	150.8	137.0	131.2	124.1	120.1	116.5	110.3	102.3

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	206.3	*206.3*	205.5	200.6	176.6	160.5	157.0	146.8	141.0	131.6	120.5
115°	185.4	*185.9*	185.4	186.8	185.0	165.0	168.5	151.6	161.4	139.6	132.1
117.5°	161.9	*161.4*	159.7	160.1	161.9	174.8	146.8	142.8	146.8	127.2	120.5
120°	225.9	*221.9*	225.9	209.5	206.8	209.0	193.0	189.9	173.0	149.4	131.6
122.5°	332.6	*326.4*	335.3	329.5	334.0	319.3	303.7	290.8	272.2	232.6	197.0
125°	375.8	*374.4*	372.2	364.2	357.1	350.9	353.5	358.4	348.2	316.2	274.8
127.5°	276.6	*280.2*	278.8	294.8	310.4	306.9	297.5	302.0	307.3	305.5	281.1
130°	220.6	*223.7*	225.5	241.0	254.4	254.4	239.3	235.3	239.7	249.0	239.7
132.5°	193.5	*194.3*	195.2	200.6	211.7	217.0	207.7	201.5	203.2	208.1	200.1
135°	174.3	*173.9*	172.5	169.0	169.9	175.2	179.2	178.3	177.0	177.0	172.5
137.5°	151.2	*150.8*	150.8	145.4	143.2	147.6	153.4	158.8	155.2	150.3	145.0
140°	125.9	*125.4*	125.9	129.0	129.9	130.3	133.4	133.4	133.4	133.0	130.7
142.5°	104.5	*105.0*	105.8	113.8	117.8	117.8	113.8	110.3	109.8	112.5	113.0
145°	128.5	*128.5*	129.0	128.5	125.9	123.2	120.5	120.5	117.8	111.6	108.5
147.5°	114.7	*116.5*	115.2	116.5	117.4	117.8	117.4	118.7	119.2	115.6	110.7
150°	90.3	*89.8*	88.9	90.3	92.5	95.2	96.1	96.9	97.4	97.4	97.4
152.5°	78.3	*78.7*	78.3	79.6	80.9	81.4	82.7	82.7	83.2	82.7	81.8
155°	76.0	*76.0*	76.0	76.0	76.5	77.4	79.2	80.0	79.2	77.8	75.6
157.5°	70.7	*70.7*	70.7	71.2	72.0	72.9	74.3	75.2	75.2	74.3	72.5
160°	67.6	*67.6*	67.6	67.6	68.5	69.4	70.3	71.2	71.2	70.7	69.4
162.5°	64.0	*64.0*	64.0	64.5	65.4	66.3	67.2	68.0	67.6	67.6	66.7
165°	63.6	*63.6*	63.6	64.0	64.9	66.3	66.7	66.7	67.2	67.2	67.2
167.5°	65.4	*65.4*	65.8	65.8	66.7	67.2	68.0	68.5	68.9	68.5	68.5
170°	68.0	*68.0*	68.0	68.5	68.9	68.9	69.4	69.4	69.8	69.8	69.8
172.5°	71.6	*71.6*	71.6	71.6	71.2	71.2	71.2	71.2	71.6	71.2	71.6
175°	75.6	*75.6*	75.6	75.2	74.7	74.7	74.3	74.3	73.8	73.4	73.4
177.5°	76.0	*76.0*	76.0	76.0	75.6	75.2	75.2	74.7	74.3	74.3	74.3
180°	74.3	*74.3*	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
2.5°	27.1	26.2	24.0	22.2	20.9	19.1	17.8	16.5	15.6	15.1	14.7
5°	35.6	33.8	31.1	28.5	26.2	23.1	21.3	18.2	16.0	15.1	14.7
7.5°	46.7	45.4	44.0	43.6	42.7	38.7	32.9	28.5	27.6	26.7	27.6
10°	59.6	56.9	52.9	55.1	55.1	47.6	39.6	35.1	34.7	36.5	36.9
12.5°	71.6	68.0	63.1	62.7	57.8	47.6	39.1	34.7	34.2	34.7	35.1
15°	82.7	78.7	73.4	68.9	61.4	50.7	40.9	35.1	33.8	35.1	35.1
17.5°	88.9	84.9	77.4	68.9	60.0	50.3	40.5	34.2	31.1	29.4	29.4
20°	96.5	93.4	83.2	72.5	60.5	49.8	40.0	33.4	29.8	28.0	27.6
22.5°	103.2	99.6	88.5	76.9	63.1	49.8	38.7	32.9	29.8	28.0	27.6
25°	111.2	105.8	94.7	81.8	65.4	49.8	38.7	33.4	30.2	28.5	28.0
27.5°	116.5	110.3	99.6	85.4	68.0	50.7	40.0	33.8	30.2	28.5	28.5
30°	121.9	116.1	103.6	90.3	71.2	52.9	42.2	35.6	31.6	29.4	29.4
32.5°	132.5	125.0	109.8	94.3	73.8	54.7	44.5	37.4	32.9	30.7	30.7
35°	156.5	145.9	127.6	105.8	77.4	56.5	46.7	39.6	33.8	31.1	31.1
37.5°	193.0	179.7	157.4	127.6	86.3	59.1	48.5	40.5	34.7	32.5	32.0
40°	217.0	200.6	173.9	145.0	99.2	63.6	50.7	41.8	35.6	32.9	32.5
42.5°	245.9	225.9	190.3	150.3	105.8	72.9	55.1	44.0	36.9	33.4	32.9
45°	272.2	255.3	221.9	175.7	125.0	86.7	63.1	48.0	39.1	34.7	34.2
47.5°	325.5	299.3	254.8	207.2	149.0	107.6	76.9	54.3	42.7	36.5	35.6
50°	429.6	402.5	348.7	274.8	192.6	137.0	99.2	65.8	47.1	38.2	36.9
52.5°	583.5	533.7	473.6	374.0	273.1	197.9	140.5	92.9	56.0	40.0	37.8
55°	789.4	760.9	654.6	527.9	389.1	296.2	216.1	144.5	83.6	42.2	38.2
57.5°	1025.5	969.0	872.1	714.2	520.3	377.1	292.2	215.2	123.2	49.4	40.5
60°	1177.6	1118.9	1007.7	848.1	633.3	449.6	333.1	239.7	139.6	50.7	42.2
62.5°	1275.9	1193.6	1052.6	865.9	666.2	479.4	351.8	227.7	119.2	49.4	43.6
65°	*1291.0*	*1201.6*	*1052.6*	*841.4*	*636.4*	*454.9*	*340.2*	*210.3*	*93.8*	*47.1*	*45.4*
67.5°	1201.6	1104.7	981.0	771.6	571.0	390.0	292.2	171.7	71.2	45.8	44.9
70°	973.0	912.1	799.6	628.8	455.8	319.3	232.6	131.6	57.8	44.5	44.0
72.5°	743.6	699.5	620.8	490.1	351.3	246.4	177.4	103.6	52.0	43.6	43.1
75°	591.9	551.9	487.9	377.6	268.2	189.9	132.5	79.6	47.6	43.6	42.7
77.5°	488.3	453.2	395.4	299.3	195.7	141.9	100.5	64.5	46.7	43.6	43.1
80°	375.8	350.4	307.3	217.5	140.1	106.3	80.0	57.4	46.7	44.5	44.0
82.5°	266.4	256.6	224.1	169.4	117.8	92.5	73.8	56.5	47.6	45.4	44.9
85°	221.5	209.9	186.8	147.6	109.8	89.4	72.9	57.8	49.8	48.0	47.6
87.5°	213.5	205.9	183.2	142.8	105.4	85.4	69.8	56.5	49.8	48.9	49.4
90°	193.0	184.6	167.2	133.0	101.0	84.9	71.2	58.7	51.6	50.7	50.3
92.5°	175.2	170.3	155.2	128.5	104.1	88.1	75.2	64.0	58.3	56.5	56.5
95°	149.9	145.0	136.5	117.8	99.2	86.3	75.2	65.4	60.5	59.6	59.1
97.5°	127.6	124.5	117.4	102.7	88.1	77.4	67.6	60.0	56.0	54.7	54.7
100°	116.5	113.8	108.1	98.3	87.2	78.3	70.3	63.6	60.0	59.1	59.1
102.5°	108.5	106.3	101.0	93.8	84.1	76.9	70.3	64.5	60.5	59.6	60.0
105°	101.8	99.6	94.3	87.2	79.2	71.6	66.7	62.3	57.8	56.5	56.5
107.5°	96.9	94.7	90.3	83.2	76.5	69.8	64.5	60.9	57.4	56.5	56.5
110°	99.2	96.1	89.4	81.8	76.0	70.3	65.8	62.3	59.6	58.3	58.3

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

Scaled Data Report

REPORT NUMBER: P1045792
CATALOG NUMBER: FFX-CLB-40-727-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	116.1	111.2	100.1	89.4	81.8	75.2	70.3	65.4	63.1	61.4	61.4
115°	127.2	122.3	111.2	98.3	87.2	77.8	71.2	67.2	64.5	66.3	65.4
117.5°	116.1	112.5	104.1	94.7	85.8	77.8	72.0	69.4	67.6	69.8	70.7
120°	127.6	121.0	114.3	103.6	87.2	76.0	72.0	71.2	71.2	69.4	69.4
122.5°	182.3	171.2	146.3	128.1	105.4	92.9	85.4	78.3	71.2	68.5	68.0
125°	255.3	234.4	202.8	170.8	139.6	113.4	91.6	78.3	71.6	67.6	66.7
127.5°	268.6	250.4	221.5	182.8	140.5	110.7	91.2	80.9	73.4	68.9	68.5
130°	226.8	217.9	192.1	158.8	126.3	103.2	90.3	80.9	73.8	69.8	68.9
132.5°	192.6	186.3	162.3	135.6	112.5	95.6	84.1	73.8	67.2	63.6	62.7
135°	165.4	161.4	140.5	121.4	104.1	90.3	78.3	68.5	63.1	60.9	60.5
137.5°	141.9	137.9	123.6	110.3	96.9	84.9	75.2	66.7	61.8	60.5	60.0
140°	127.2	123.6	114.7	100.5	87.6	75.2	68.0	62.7	60.0	59.1	58.7
142.5°	110.7	106.7	96.9	86.7	77.8	68.0	63.1	60.9	59.6	58.7	58.3
145°	105.0	102.3	91.2	81.8	73.4	68.5	65.8	62.7	60.0	58.3	57.8
147.5°	106.3	103.2	93.4	84.5	76.9	71.6	67.2	62.7	59.1	57.4	56.9
150°	95.2	94.3	88.5	81.4	74.3	68.5	64.0	60.5	58.3	57.8	57.8
152.5°	79.6	79.2	76.5	72.5	67.6	63.1	60.0	58.3	58.3	59.1	59.6
155°	74.7	73.4	71.6	68.9	64.9	61.8	59.6	58.7	59.1	60.0	60.0
157.5°	72.0	70.7	68.9	66.7	64.5	61.8	60.0	59.6	60.5	61.4	61.4
160°	68.5	67.6	66.3	64.0	62.3	60.9	60.0	60.0	60.5	60.9	60.9
162.5°	66.3	65.4	64.0	62.7	61.8	61.4	60.9	60.5	60.9	61.4	61.4
165°	66.3	65.8	64.0	62.7	62.3	62.3	62.3	62.3	62.3	61.8	61.8
167.5°	68.0	67.6	66.3	65.4	64.9	65.4	65.4	64.9	64.5	63.6	63.6
170°	69.8	69.4	68.9	68.5	68.0	68.5	68.5	68.5	68.0	68.0	67.6
172.5°	71.6	71.2	70.7	70.3	70.3	70.3	70.7	71.2	71.2	71.2	71.2
175°	73.4	73.4	72.5	72.0	72.0	72.0	72.5	72.5	72.9	72.9	72.9
177.5°	74.3	74.3	74.3	74.3	74.7	74.3	74.3	73.8	73.8	73.8	73.8
180°	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3

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

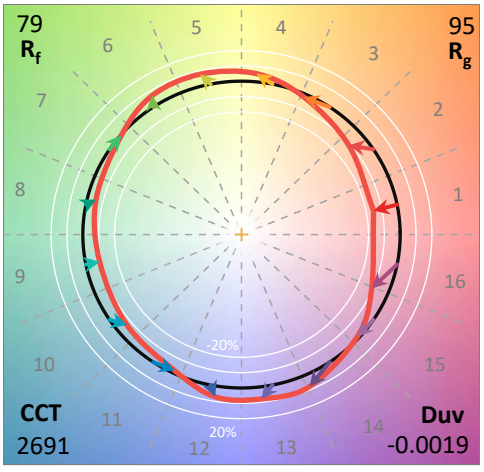
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

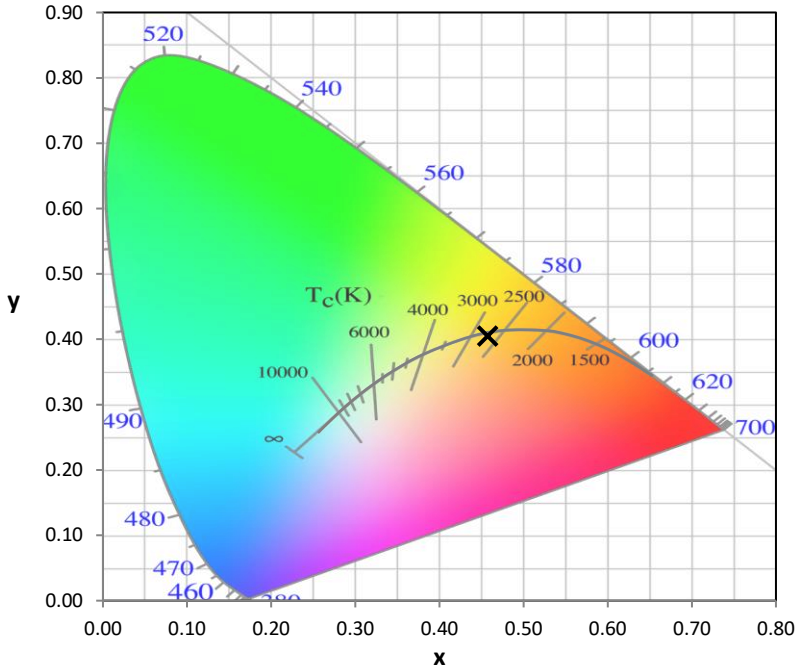
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

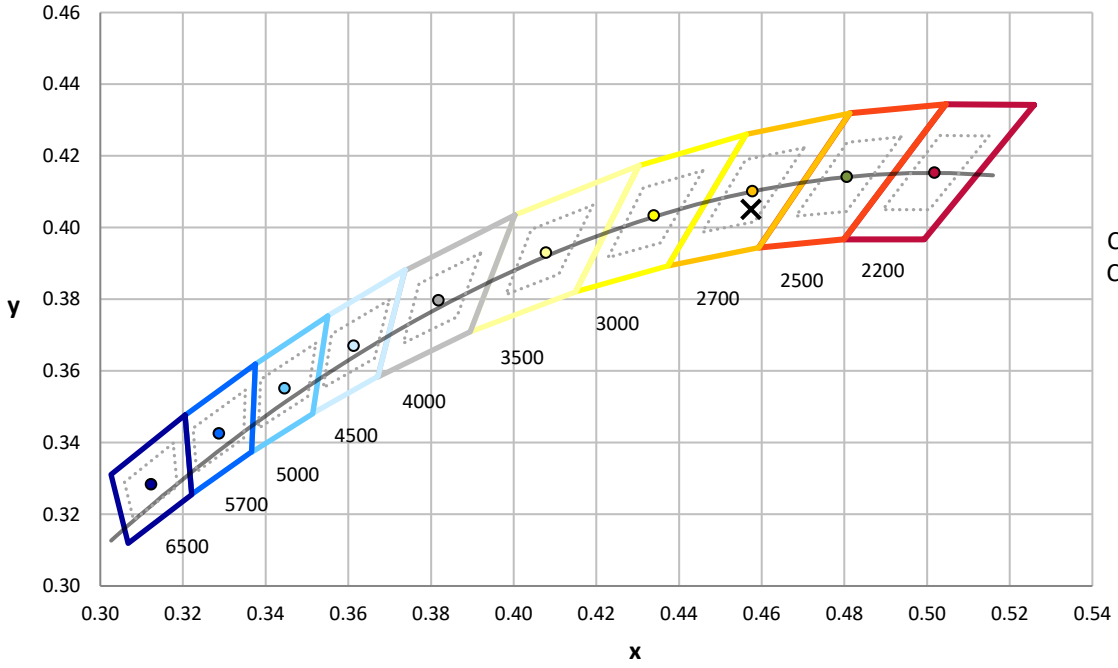
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

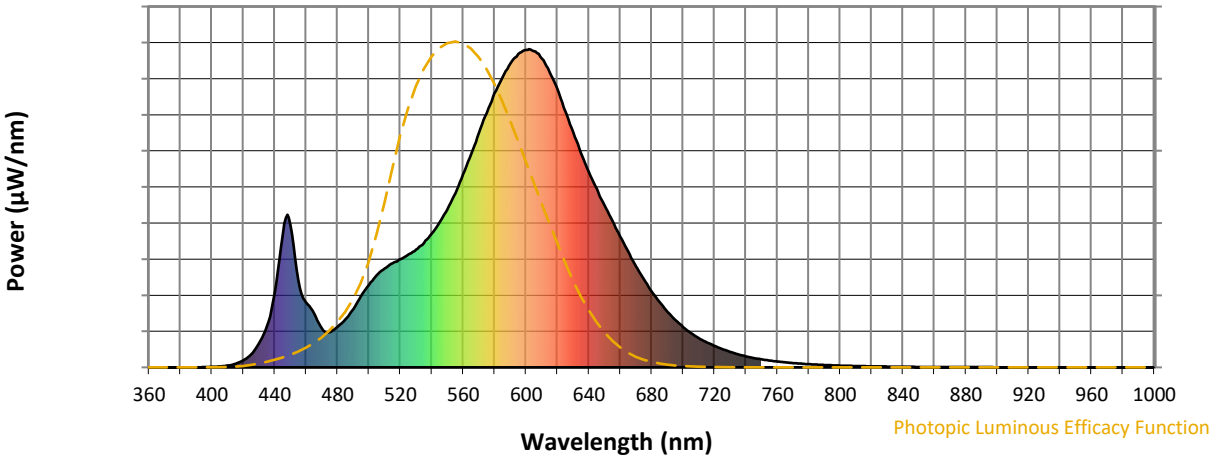


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

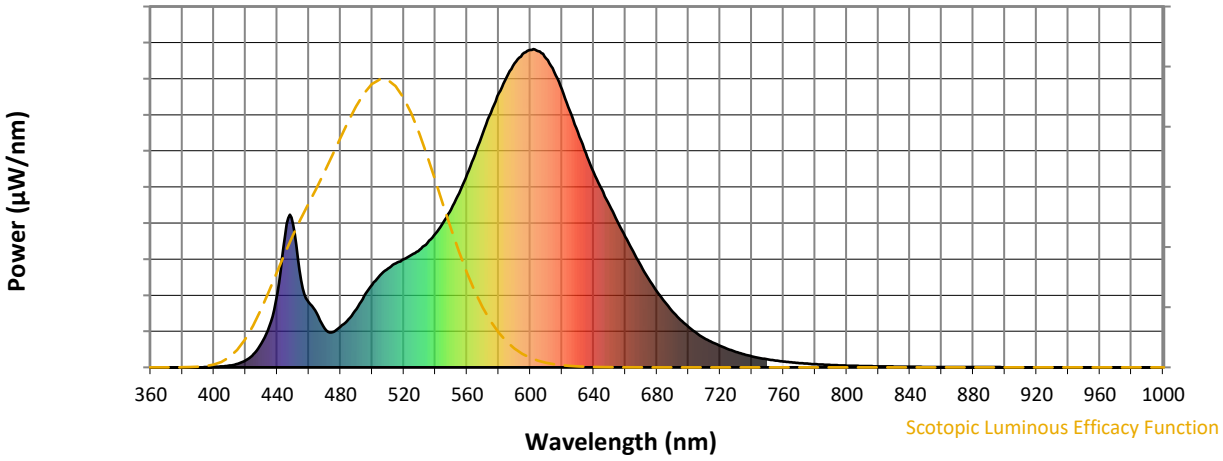


Photopic Lumens: NR

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

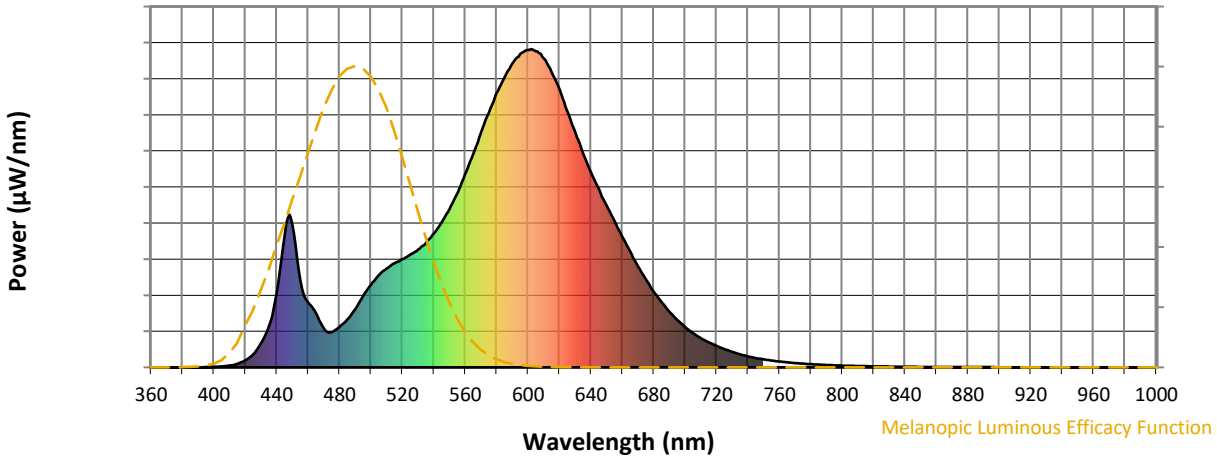


Scotopic Lumens: NR **S/P: 1.18**

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			

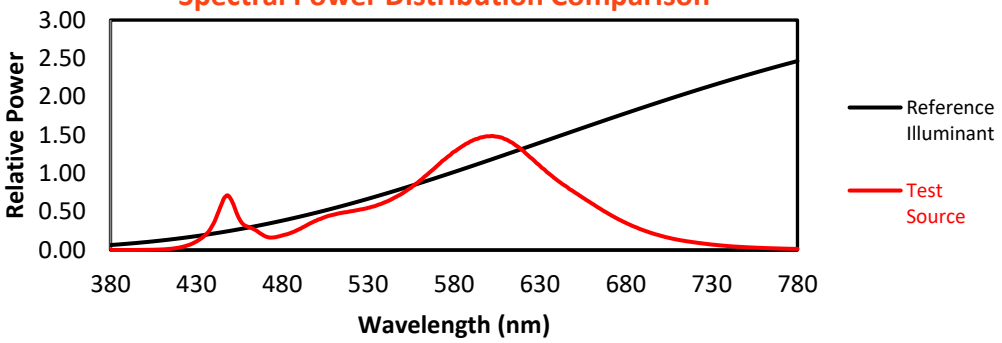
REPORT NUMBER: SP1-2501-332-8

TM-30-18

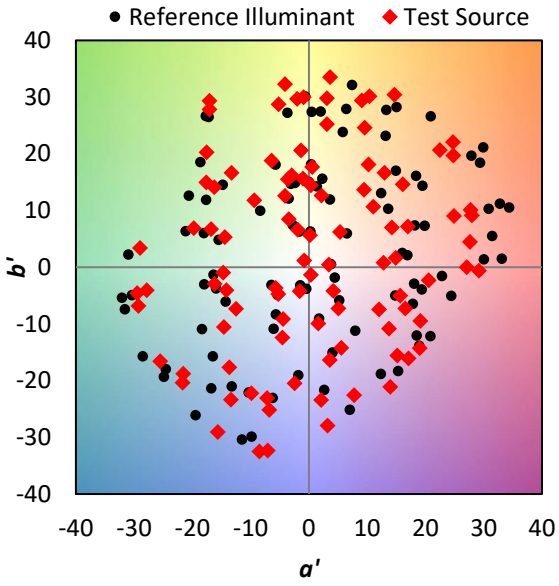
Summary

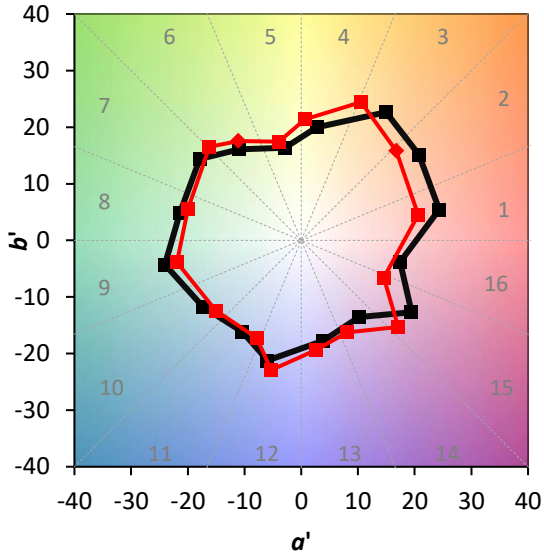
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

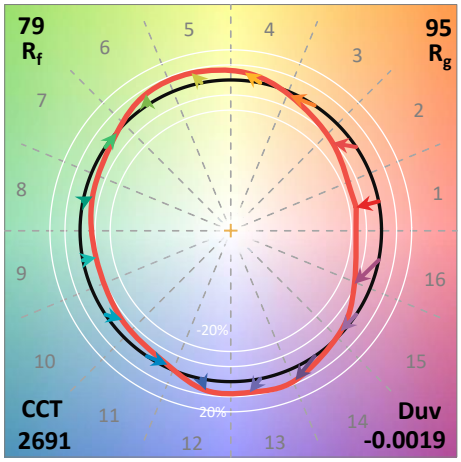
Spectral Power Distribution Comparison

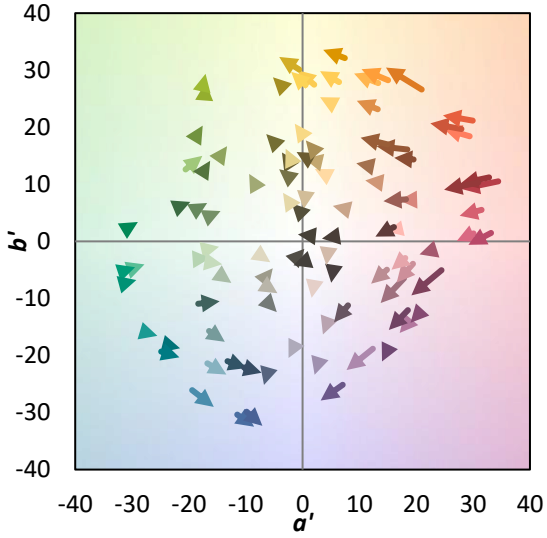


Color Vector Graphics







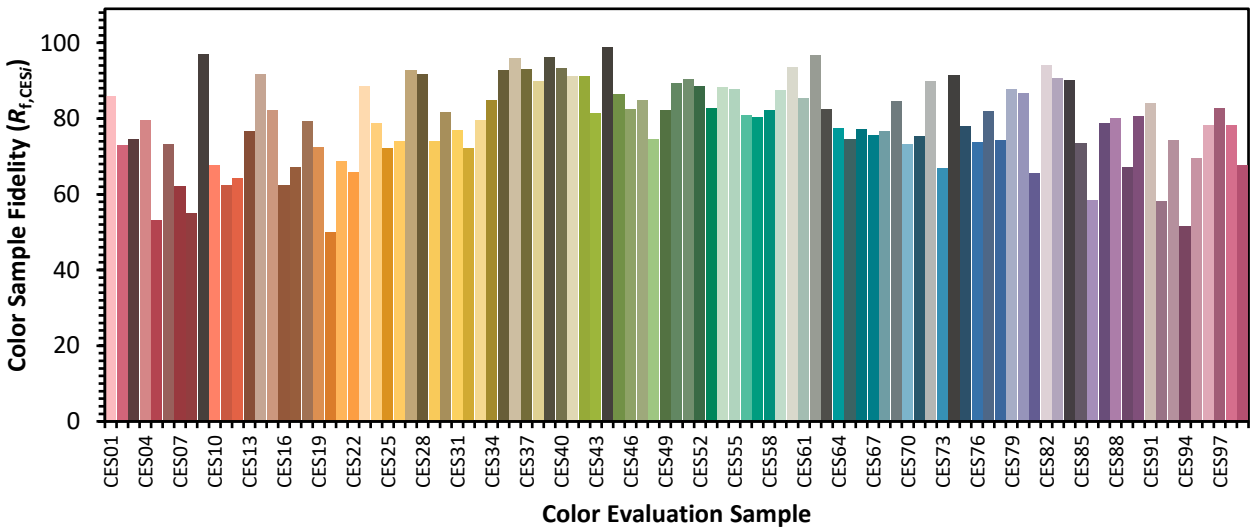


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

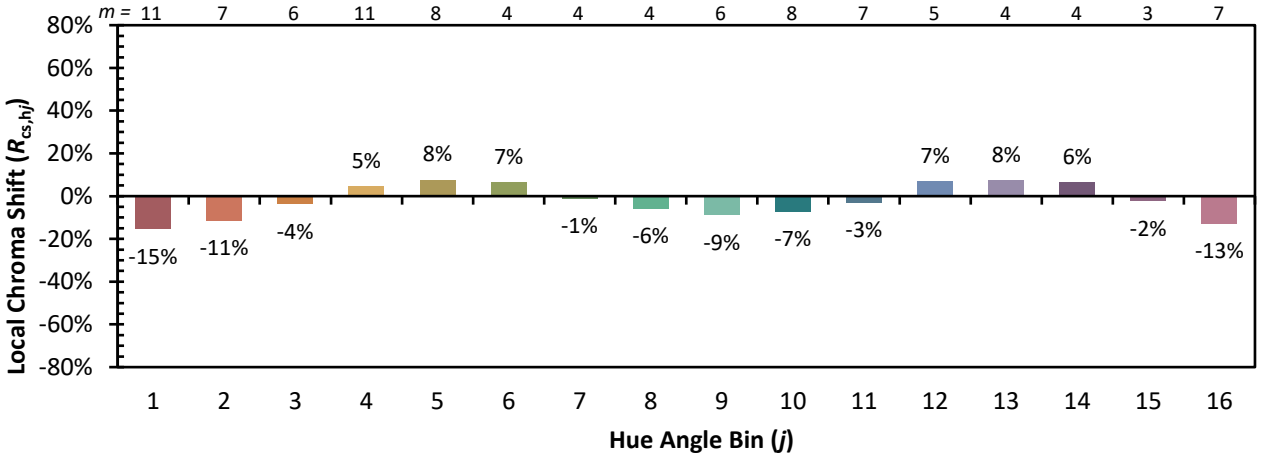
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

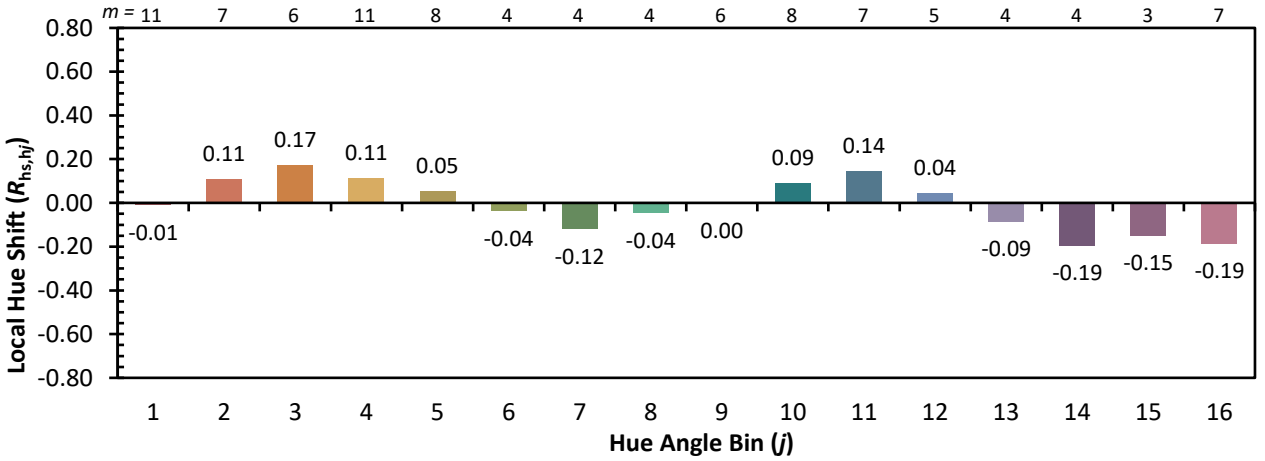


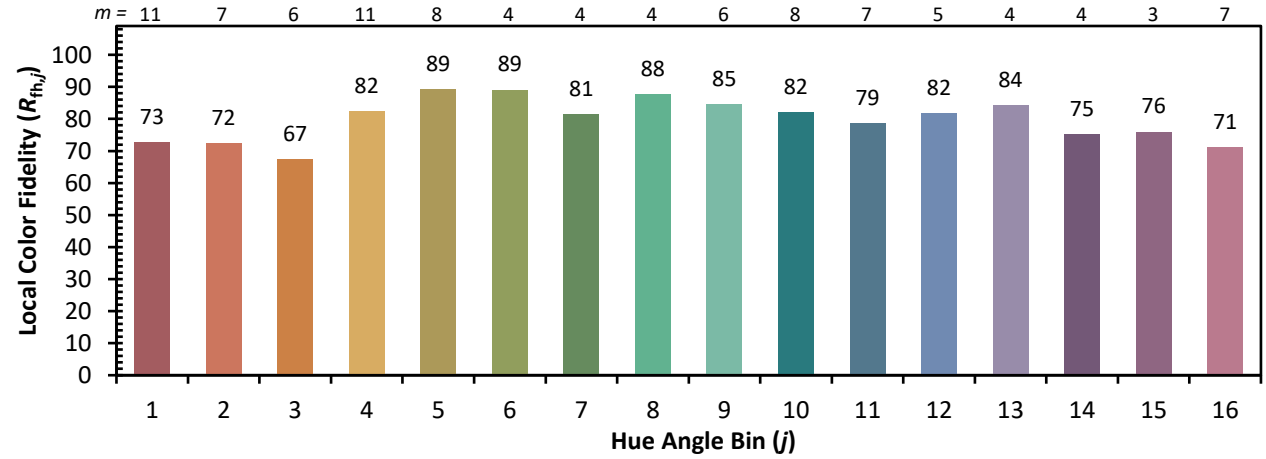
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Color Rendition by Hue-Angle Bin



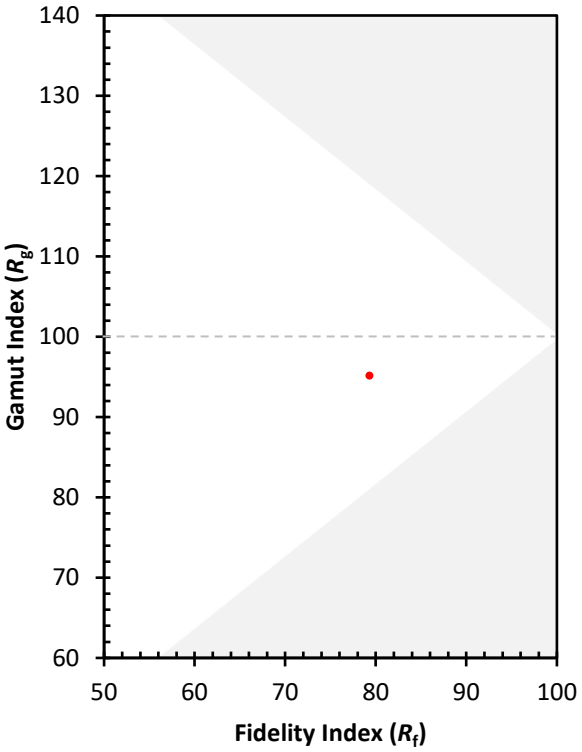


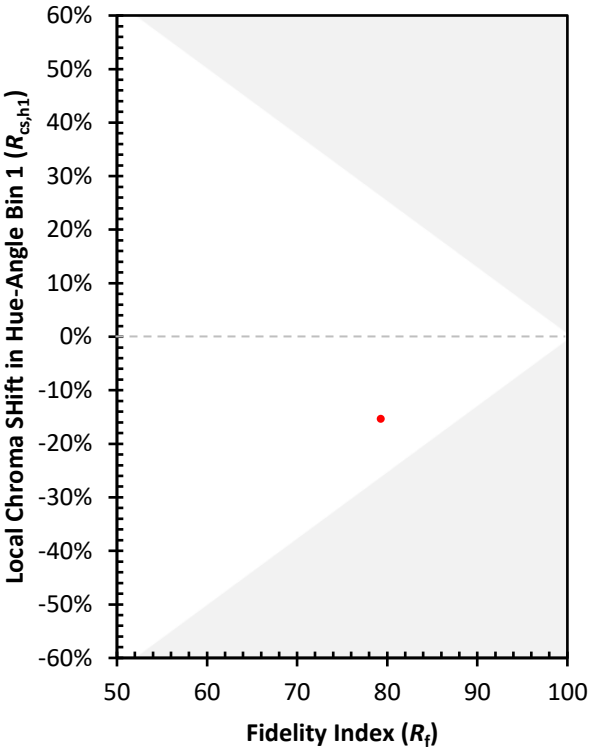


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Measure Comparisons





(END OF REPORT)