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: P1046242

Luminaire Tested: **FFX-CLB-40-727-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:	P1046242
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-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, 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:	5299 lumens
Efficiency:	N/A
Efficacy:	134.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U3 - G3

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

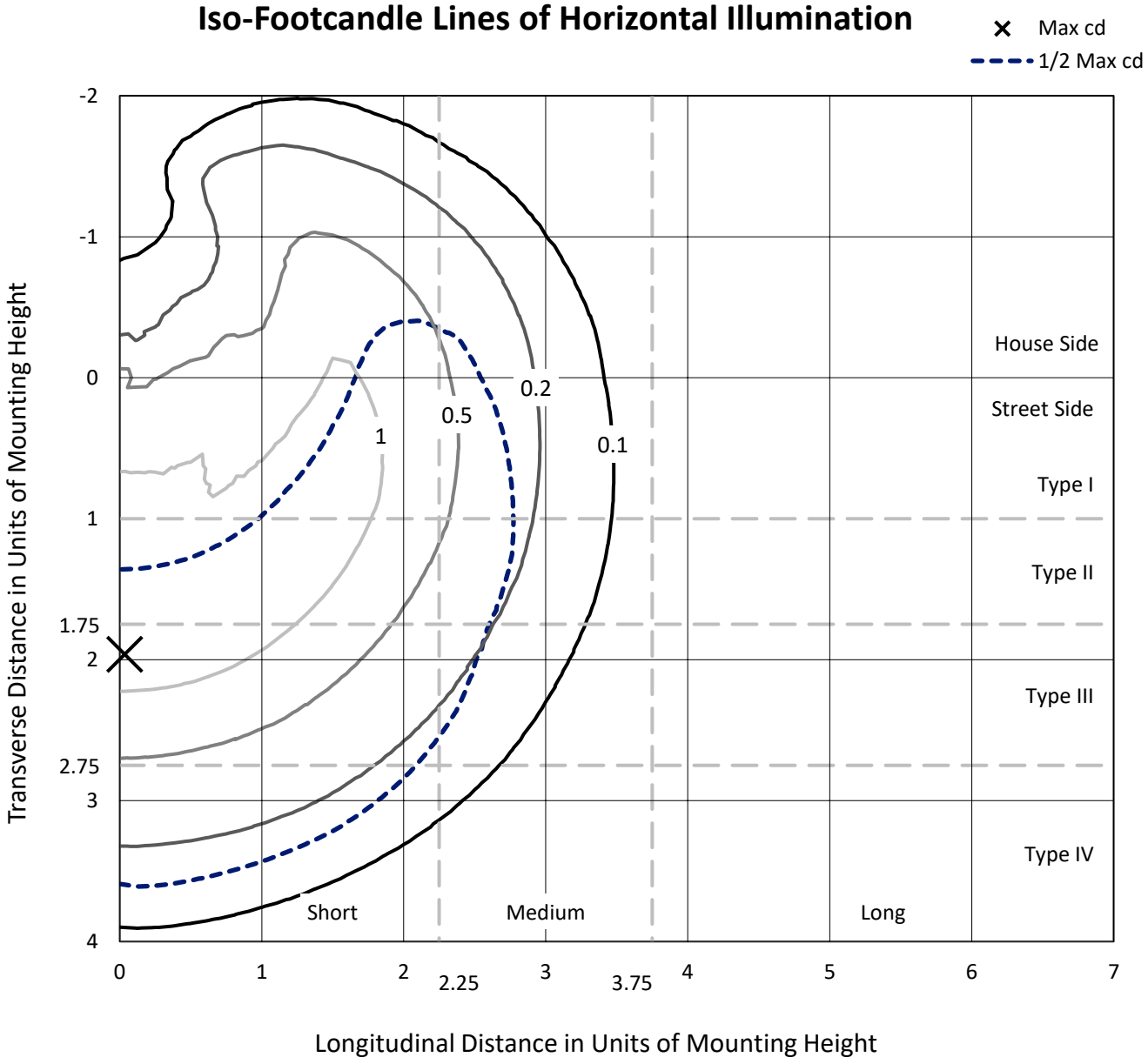


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Iso-Footcandle Lines of Horizontal Illumination



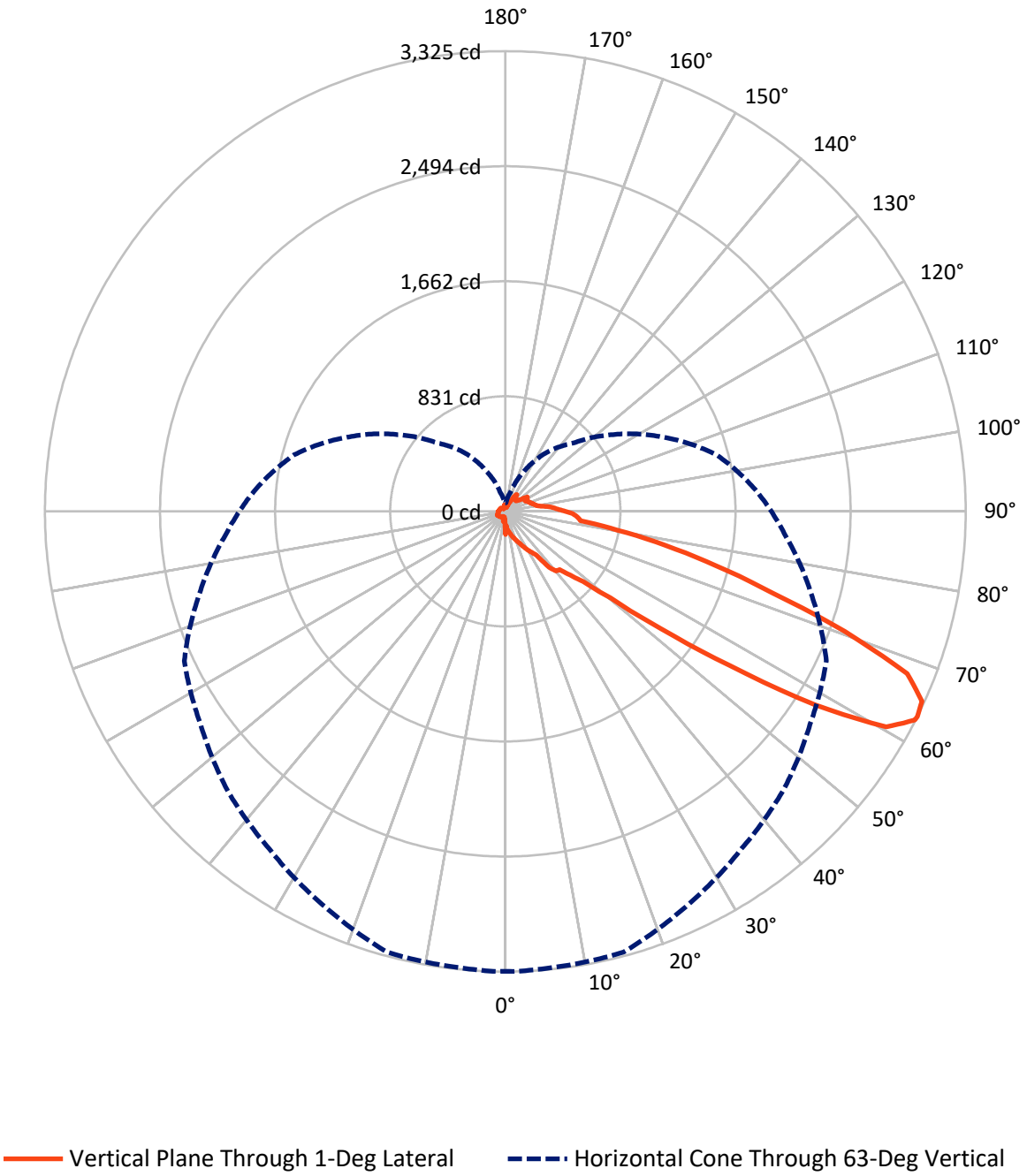
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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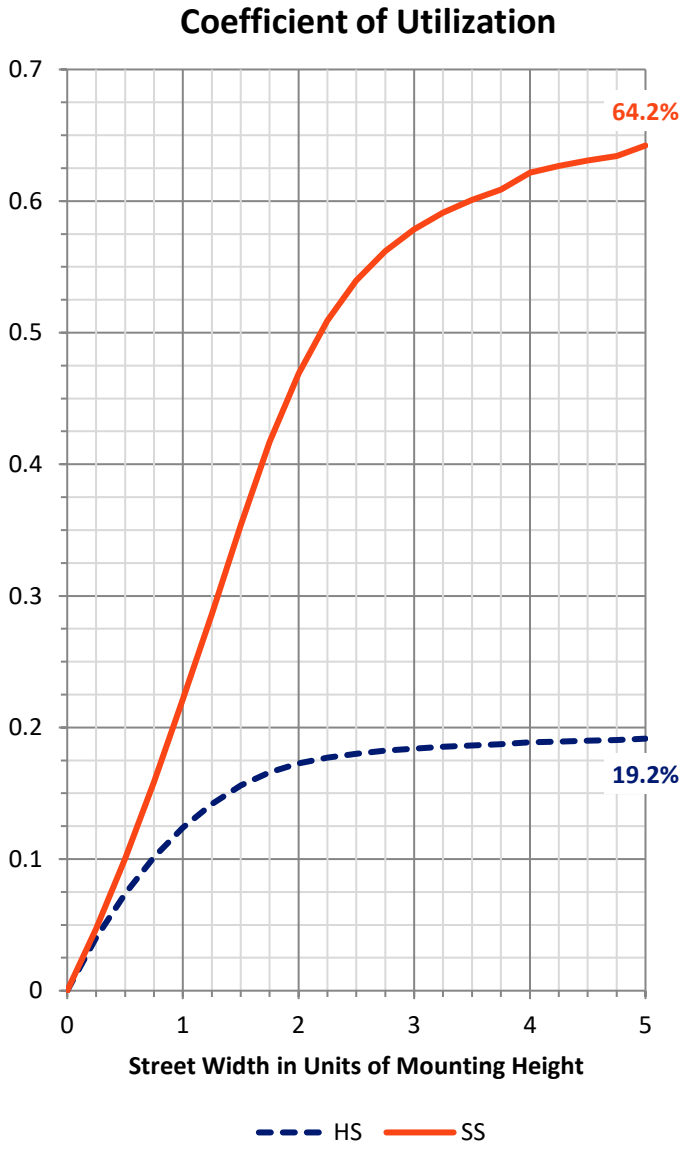
REPORT NUMBER: P1046242
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1049.2	210.2	1259.3
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	3554.5	485.2	4039.7
	% Fixture	67.1	9.2	76.2
Total	Lumens	4603.6	695.4	5299.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.2
10°-20°	34.9	0.7
20°-30°	76.9	1.5
30°-40°	157.4	3.0
40°-50°	317.8	6.0
50°-60°	1025.7	19.4
60°-70°	1689.9	31.9
70°-80°	931.5	17.6
80°-90°	359.9	6.8
90°-100°	215.8	4.1
100°-110°	137.5	2.6
110°-120°	105.1	2.0
120°-130°	89.7	1.7
130°-140°	60.1	1.1
140°-150°	51.2	1.0
150°-160°	23.3	0.4
160°-170°	9.5	0.2
170°-180°	3.2	0.1
0°-90°	4603.6	86.9
0°-180°	5299.0	100.0



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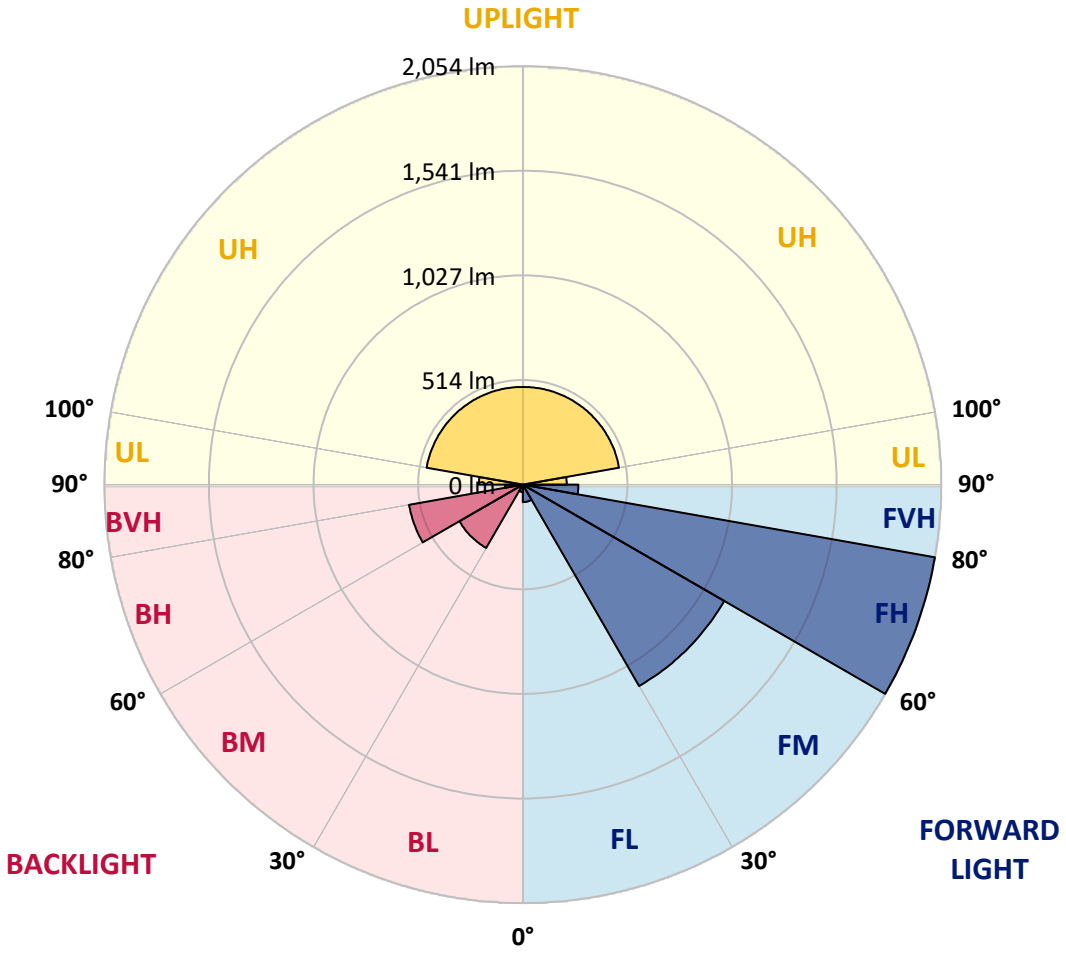
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	85.8	1.6			
FM	(30°-60°)	1141.6	21.5			
FH	(60°-80°)	2054.3	38.8			G2/5000
FVH	(80°-90°)	272.7	5.1			G3/500
BL	(0°-30°)	35.8	0.7	B0/110		
BM	(30°-60°)	359.2	6.8	B1/1000		
BH	(60°-80°)	567.0	10.7	B2/1000		G2/1000
BVH	(80°-90°)	87.2	1.6			G1/100
UL	(90°-100°)	215.8	4.1		U3/500	
UH	(100°-180°)	479.6	9.1		U3/500	

BUG Rating: B2-U3-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7
2.5°	103.7	102.5	107.4	122.5	139.1	144.4	133.4	129.3	141.4	169.2	172.3
5°	119.5	121.4	120.2	122.1	123.6	135.3	145.9	134.9	109.3	89.3	90.8
7.5°	141.0	140.6	140.6	139.1	131.6	119.5	116.1	124.8	125.1	104.8	89.0
10°	150.4	150.0	150.0	148.5	147.0	148.1	144.4	128.5	115.7	107.4	102.2
12.5°	170.4	169.6	169.2	168.5	165.9	162.8	160.2	161.0	150.0	129.3	115.7
15°	187.0	186.2	187.0	187.7	185.8	180.6	173.0	162.5	152.7	144.0	131.9
17.5°	205.1	204.7	204.3	203.6	200.9	193.8	184.7	174.9	164.0	151.9	140.6
20°	222.4	221.6	222.0	222.4	221.3	212.6	203.6	191.5	179.8	168.1	154.9
22.5°	243.1	243.1	242.0	242.0	240.9	235.6	224.3	210.3	198.3	183.6	168.9
25°	269.9	268.8	268.8	267.6	263.1	257.5	249.5	233.7	219.4	205.4	185.8
27.5°	296.3	295.2	295.2	294.8	289.1	281.6	268.4	253.3	239.7	222.0	198.3
30°	326.4	325.7	326.1	321.9	317.4	306.8	290.3	272.9	255.2	234.5	211.5
32.5°	357.0	354.7	354.3	349.8	343.8	331.0	312.5	295.9	277.4	253.3	234.1
35°	392.8	387.9	393.2	392.0	391.3	377.7	356.6	337.4	315.5	293.6	272.9
37.5°	511.1	513.4	512.3	497.2	485.1	466.7	457.2	434.6	404.5	377.7	338.5
40°	566.9	566.2	564.3	547.7	536.8	517.5	502.5	485.5	467.8	426.0	377.3
42.5°	579.0	574.8	577.9	593.3	607.6	594.8	547.0	492.3	467.4	438.0	412.8
45°	667.2	656.6	661.2	665.3	651.4	632.9	612.2	576.7	534.9	492.7	446.3
47.5°	761.4	755.8	755.4	753.9	755.4	737.7	710.2	677.4	618.2	572.6	520.9
50°	991.0	983.5	985.7	987.6	979.7	961.6	931.8	910.3	839.5	752.0	684.9
52.5°	1412.0	1407.5	1397.0	1397.7	1326.5	1322.7	1282.4	1263.2	1158.7	1058.8	923.5
55°	1931.9	1961.3	1928.8	1922.4	1893.0	1866.6	1765.6	1681.9	1532.3	1388.7	1230.0
57.5°	2636.0	2640.9	2599.8	2600.9	2496.5	2430.2	2337.1	2208.9	1986.1	1778.8	1600.9
60°	3149.0	3161.5	3142.2	3102.3	2900.2	2781.5	2679.0	2577.9	2407.9	2100.0	1852.3
62.5°	3316.0	3319.8	3307.7	3286.6	3108.3	2956.8	2824.8	2678.2	2547.8	2270.4	2021.6
63°	3322.0	3324.7	3315.3	3297.2	3131.7	2974.5	2842.6	2685.8	2558.0	2285.4	2031.8
65°	3305.8	3307.0	3302.8	3278.7	3146.4	2980.2	2835.0	2680.5	2563.2	2291.5	2031.8
67.5°	3160.0	3131.3	3143.4	3102.7	2992.6	2827.1	2688.4	2530.8	2425.3	2162.6	1913.8
70°	2599.8	2601.7	2599.8	2577.6	2546.3	2415.5	2253.4	2111.7	1978.2	1772.0	1576.8
72.5°	2011.4	2019.3	2002.0	2014.8	1989.5	1881.3	1776.6	1632.9	1539.1	1364.2	1191.9
75°	1557.9	1574.1	1579.4	1542.8	1521.0	1498.0	1440.7	1337.4	1243.6	1108.2	957.8
77.5°	1177.2	1180.2	1184.7	1159.9	1131.2	1140.3	1132.0	1083.0	1004.2	904.7	785.2
80°	813.5	822.1	836.8	822.5	825.9	820.6	819.5	780.3	723.4	660.8	596.7
82.5°	546.6	546.2	550.0	573.0	594.1	593.3	559.8	504.7	475.7	457.6	421.4
85°	523.2	523.2	528.5	511.9	501.3	490.8	488.5	469.7	447.4	406.7	356.6
87.5°	487.8	486.6	488.1	473.8	459.9	456.5	453.1	436.9	427.1	391.6	345.7
90°	417.3	420.3	420.3	419.2	410.5	407.1	393.5	380.0	373.9	341.9	305.7
92.5°	368.3	368.3	372.4	365.3	355.8	361.1	337.7	320.0	311.7	290.3	261.6
95°	332.8	331.7	337.0	326.8	320.0	310.2	300.4	282.0	275.9	257.5	228.4
97.5°	265.7	264.6	267.6	262.7	252.2	247.7	237.1	222.4	216.7	199.4	181.7
100°	228.8	228.4	229.6	226.9	220.9	215.2	206.2	194.5	189.2	174.9	159.1
102.5°	217.1	216.0	216.4	216.7	208.1	202.8	194.1	185.1	179.8	168.1	150.8
105°	206.6	205.8	205.1	205.1	195.3	190.0	184.3	178.3	173.8	161.0	144.4
107.5°	196.8	195.6	193.0	192.6	186.2	180.6	173.8	168.5	164.0	152.3	136.5

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	185.8	*185.5*	184.0	184.3	180.2	171.5	165.9	159.4	153.8	143.6	129.7
112.5°	180.2	*180.2*	179.1	180.9	165.1	156.4	150.4	144.7	141.0	131.2	120.6
115°	174.2	*171.1*	170.0	173.8	155.7	143.6	137.6	131.6	127.8	118.0	109.3
117.5°	161.3	*160.6*	161.0	164.0	158.7	145.5	135.7	128.2	124.4	117.2	109.3
120°	184.0	*183.2*	178.7	177.9	168.9	158.3	151.9	147.8	142.1	130.4	115.3
122.5°	192.2	*190.7*	183.6	185.8	173.8	168.5	165.9	164.3	159.1	143.6	120.6
125°	167.4	*165.1*	163.2	164.0	157.2	150.4	147.8	145.5	140.2	131.6	115.0
127.5°	134.2	*135.3*	133.8	129.7	128.5	118.4	115.0	112.3	107.4	100.3	97.6
130°	125.9	*125.1*	124.8	124.0	123.3	115.7	110.4	104.0	99.9	93.9	86.7
132.5°	112.0	*112.7*	113.8	120.2	126.3	119.9	106.3	96.5	93.9	95.0	92.0
135°	106.3	*106.7*	106.7	111.6	116.9	110.4	100.3	90.8	89.7	93.9	90.1
137.5°	108.9	*110.8*	110.4	109.3	106.3	101.8	99.5	94.2	91.2	88.6	82.2
140°	115.0	*117.2*	116.1	109.7	107.4	105.2	106.7	104.8	97.3	88.2	78.8
142.5°	114.2	*116.1*	115.3	114.6	118.7	113.5	106.3	99.1	93.1	88.2	82.2
145°	148.1	*147.4*	144.4	144.4	139.5	131.6	126.7	119.1	112.0	105.5	95.7
147.5°	136.8	*138.7*	139.5	136.1	133.8	128.5	127.8	123.6	121.4	115.7	105.5
150°	108.6	*110.1*	107.8	105.2	104.0	104.4	102.5	99.5	97.3	93.1	88.6
152.5°	75.0	*75.8*	75.0	72.8	72.0	70.9	71.2	69.0	67.5	64.8	60.7
155°	68.2	*68.6*	69.0	65.2	64.5	64.8	65.2	63.7	60.7	58.4	53.5
157.5°	53.5	*52.8*	52.8	52.0	52.4	51.3	51.3	50.9	49.8	48.2	46.7
160°	42.6	*43.0*	43.0	43.0	43.7	43.0	43.0	41.8	41.8	41.1	40.3
162.5°	36.2	*36.2*	36.2	36.2	35.8	35.8	36.6	36.2	36.2	36.6	37.3
165°	30.5	*30.9*	30.9	30.9	30.9	30.9	31.7	31.7	32.4	33.9	35.8
167.5°	28.6	*28.3*	28.3	28.6	28.6	29.4	29.4	30.9	33.5	36.2	36.2
170°	27.1	*27.1*	27.1	27.5	27.5	27.9	29.0	31.7	34.7	35.8	34.3
172.5°	28.3	*27.9*	27.9	28.3	28.3	29.4	30.9	33.2	34.3	34.3	32.8
175°	29.0	*28.6*	28.6	29.0	29.0	29.8	31.3	32.8	33.5	33.9	33.9
177.5°	28.3	*28.3*	28.3	28.3	28.3	28.6	28.6	29.8	30.5	31.3	32.0
180°	27.1	*27.1*	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7
2.5°	172.3	157.2	134.9	107.8	125.5	147.4	144.4	127.4	101.8	76.5	76.5
5°	95.4	101.0	106.7	93.5	83.7	82.9	80.7	72.4	71.2	58.8	55.4
7.5°	83.3	78.0	76.9	90.8	89.7	59.2	46.7	41.5	43.7	59.2	61.1
10°	99.9	97.6	90.5	75.4	63.0	57.3	56.9	57.7	52.8	42.6	40.0
12.5°	112.7	108.9	102.5	98.0	83.7	66.7	57.3	53.1	56.2	71.2	74.6
15°	125.1	119.9	108.9	96.5	82.2	69.7	59.9	51.3	51.3	49.0	47.9
17.5°	134.9	128.2	115.0	101.4	85.2	69.7	56.9	48.2	44.1	43.3	43.3
20°	147.4	141.0	126.7	110.1	89.7	70.5	56.5	48.2	43.3	41.5	41.1
22.5°	162.8	154.5	136.1	116.5	92.4	71.2	57.3	48.6	43.7	41.1	40.3
25°	177.2	167.7	145.9	125.5	98.4	73.1	58.1	49.8	44.5	41.5	41.1
27.5°	188.9	178.7	158.3	134.9	104.8	77.7	61.8	52.0	45.6	42.6	41.8
30°	202.0	192.6	171.1	144.7	110.8	83.3	67.1	56.2	49.0	44.9	44.5
32.5°	221.6	210.0	185.1	154.9	118.0	89.3	72.4	59.9	51.3	49.0	49.0
35°	257.1	245.0	212.2	171.5	124.8	95.4	77.7	64.1	54.7	49.4	49.0
37.5°	323.4	306.8	265.7	209.2	136.5	100.3	82.2	67.5	56.5	49.0	47.9
40°	354.0	325.7	282.0	229.2	153.4	105.9	85.9	70.1	56.9	50.1	49.4
42.5°	390.1	366.4	304.6	234.1	165.9	119.9	92.4	73.1	59.2	51.6	50.9
45°	424.8	401.8	349.8	276.7	193.8	140.6	103.7	79.2	63.0	53.9	52.4
47.5°	487.8	463.6	391.3	320.4	232.2	173.0	126.3	88.6	68.2	56.2	54.3
50°	651.4	617.1	531.9	424.4	297.0	219.8	161.7	108.2	75.4	57.3	55.0
52.5°	862.5	810.1	717.7	580.5	424.8	311.0	226.5	157.2	87.8	57.7	54.3
55°	1204.7	1140.3	991.8	791.2	594.8	464.0	343.0	241.6	129.3	60.3	53.9
57.5°	1529.3	1481.4	1351.7	1082.6	789.0	589.5	451.2	340.0	176.0	66.3	56.5
60°	1767.9	1676.7	1525.1	1249.2	952.9	684.2	502.1	353.6	180.9	67.5	58.4
62.5°	1910.4	1797.7	1573.0	1273.3	976.3	703.8	522.5	325.3	146.3	66.0	61.1
63°	*1920.9*	*1811.6*	*1579.0*	*1265.0*	*968.8*	*698.5*	*519.4*	*318.5*	*142.1*	*65.6*	*61.8*
65°	1907.7	1812.7	1557.9	1221.7	904.7	651.7	483.6	286.1	115.3	64.5	62.6
67.5°	1776.6	1699.3	1447.5	1104.5	805.5	562.8	400.3	218.3	90.1	61.4	60.7
70°	1487.1	1398.5	1170.0	913.0	638.6	454.6	319.3	169.2	74.3	58.4	57.7
72.5°	1106.7	1069.8	888.8	694.7	491.2	350.6	239.7	128.5	66.0	56.2	55.4
75°	894.9	839.5	704.9	548.8	373.6	260.5	177.9	96.5	60.3	54.3	53.5
77.5°	739.9	703.0	586.5	414.3	266.5	187.7	130.8	76.5	57.7	53.1	52.8
80°	573.0	550.0	457.6	306.5	190.7	139.8	103.7	70.1	56.5	52.8	52.4
82.5°	404.1	396.9	333.2	229.2	162.1	125.1	96.5	69.0	56.9	53.5	52.8
85°	334.7	319.3	280.4	217.9	153.8	119.9	93.1	67.9	56.9	53.1	52.8
87.5°	326.1	313.2	271.4	203.9	141.0	110.8	87.5	65.2	55.0	51.6	51.3
90°	294.8	282.0	243.1	182.1	132.7	104.0	81.8	61.8	52.8	50.1	49.4
92.5°	251.4	239.7	211.1	165.5	127.0	99.9	79.5	60.7	52.4	49.4	49.0
95°	218.3	208.5	185.1	152.3	117.2	93.1	75.4	58.4	50.9	48.2	47.9
97.5°	173.8	167.7	149.6	124.0	99.1	81.4	67.5	55.0	49.0	46.7	46.4
100°	153.0	147.8	133.4	112.3	92.0	76.9	65.2	53.9	47.5	45.6	45.2
102.5°	143.6	139.5	126.7	105.5	86.3	73.1	62.2	52.0	46.4	44.5	44.1
105°	136.5	132.7	121.0	100.6	81.4	68.2	58.4	49.8	44.5	43.0	42.6
107.5°	127.8	124.8	113.5	93.5	76.5	64.1	55.4	47.9	43.3	41.8	41.8

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

Scaled Data Report

REPORT NUMBER: P1046242
CATALOG NUMBER: FFX-CLB-40-727-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	120.6	118.4	106.7	89.3	73.1	61.4	53.5	47.1	43.0	41.5	41.5
112.5°	113.1	110.4	99.5	84.1	70.1	59.6	52.0	46.0	42.2	40.7	40.7
115°	104.8	102.2	91.6	78.0	66.3	56.5	49.8	44.1	40.7	39.6	39.6
117.5°	106.3	99.5	86.7	74.6	63.3	54.3	48.2	43.3	39.6	38.8	38.4
120°	107.8	99.1	89.7	78.4	65.2	53.1	47.1	42.2	39.2	38.1	38.1
122.5°	105.2	106.3	98.0	80.7	62.2	52.0	46.7	42.6	39.6	38.4	38.8
125°	102.9	105.5	95.7	76.1	59.9	51.6	46.7	43.7	41.1	40.0	40.0
127.5°	94.6	95.0	81.4	68.2	58.4	50.5	46.4	44.1	41.8	40.3	39.6
130°	83.3	82.6	76.1	66.3	55.0	48.6	44.9	43.7	41.5	38.8	38.4
132.5°	89.3	87.1	76.5	63.0	52.0	46.7	44.5	43.0	39.2	36.2	35.8
135°	84.8	82.6	71.6	58.8	50.5	47.5	46.4	42.6	36.9	34.7	34.3
137.5°	77.3	73.5	64.5	56.2	51.3	49.4	46.7	41.8	36.2	33.5	33.2
140°	74.3	70.5	63.3	57.7	52.0	46.0	41.5	36.9	33.2	30.9	30.5
142.5°	78.0	75.0	67.9	57.7	48.6	42.2	38.1	35.1	31.7	28.3	27.9
145°	90.8	85.2	75.4	64.8	55.4	47.9	41.5	35.1	29.0	25.3	24.9
147.5°	100.6	96.1	85.6	73.5	60.3	48.2	38.8	30.9	26.0	23.7	23.4
150°	83.7	81.0	73.1	63.3	53.5	42.6	33.5	27.5	24.5	23.7	23.7
152.5°	58.4	56.5	53.9	47.5	40.0	33.5	28.6	25.6	24.5	24.1	24.1
155°	51.6	50.5	47.1	41.5	36.2	31.3	27.5	25.3	24.9	24.5	24.5
157.5°	44.5	44.1	41.8	37.3	33.2	29.4	26.8	25.6	24.9	24.5	24.5
160°	40.0	38.8	36.6	33.5	30.9	28.6	27.1	26.4	25.6	25.3	25.3
162.5°	37.3	36.6	33.9	31.7	30.2	29.8	30.2	29.8	27.9	26.8	26.4
165°	35.4	35.1	32.4	30.9	30.2	32.0	34.3	33.5	30.2	28.3	28.3
167.5°	35.4	34.7	32.0	30.9	32.8	35.4	37.3	36.9	33.9	32.0	30.9
170°	33.5	32.8	32.0	32.4	35.1	36.2	36.6	37.3	37.7	39.6	40.3
172.5°	32.4	32.4	33.2	34.7	36.9	37.3	36.2	36.6	40.0	44.1	44.5
175°	33.9	33.9	35.4	38.1	39.2	40.0	38.4	38.8	42.6	46.7	47.1
177.5°	32.4	32.8	33.5	33.9	33.5	32.4	32.0	33.5	32.4	32.0	33.2
180°	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1

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

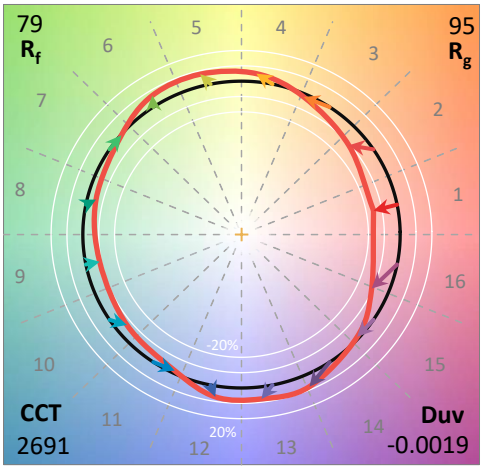
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

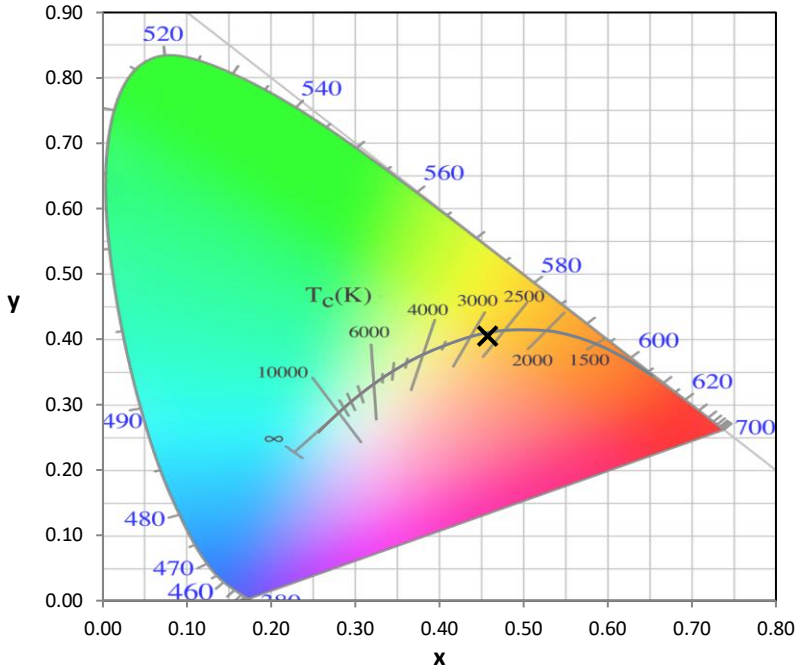
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

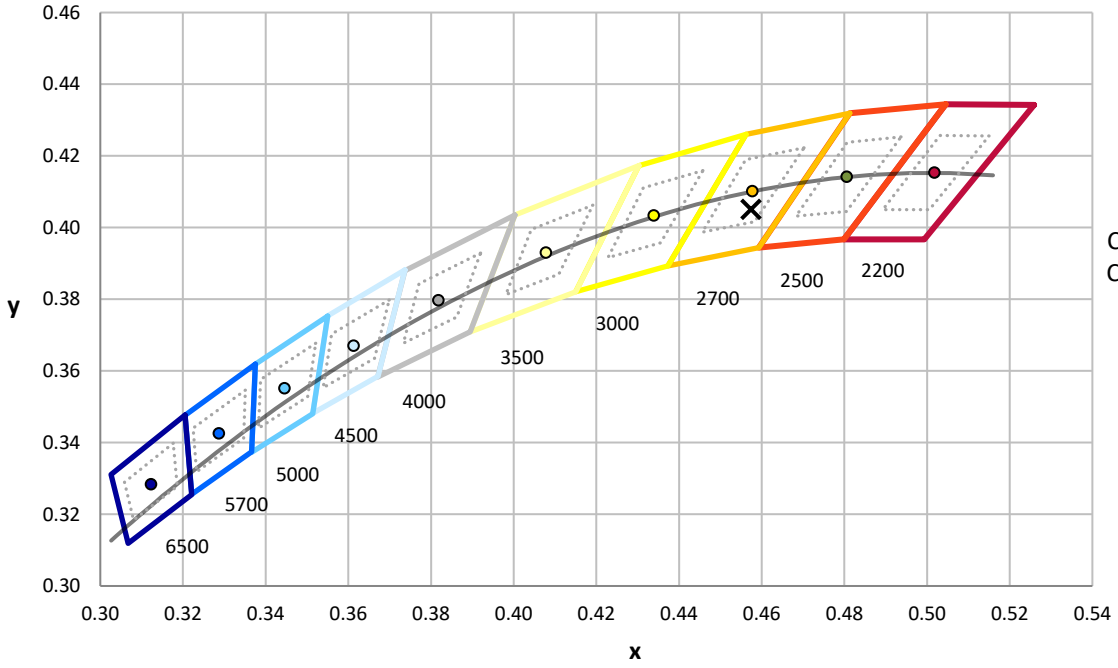
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

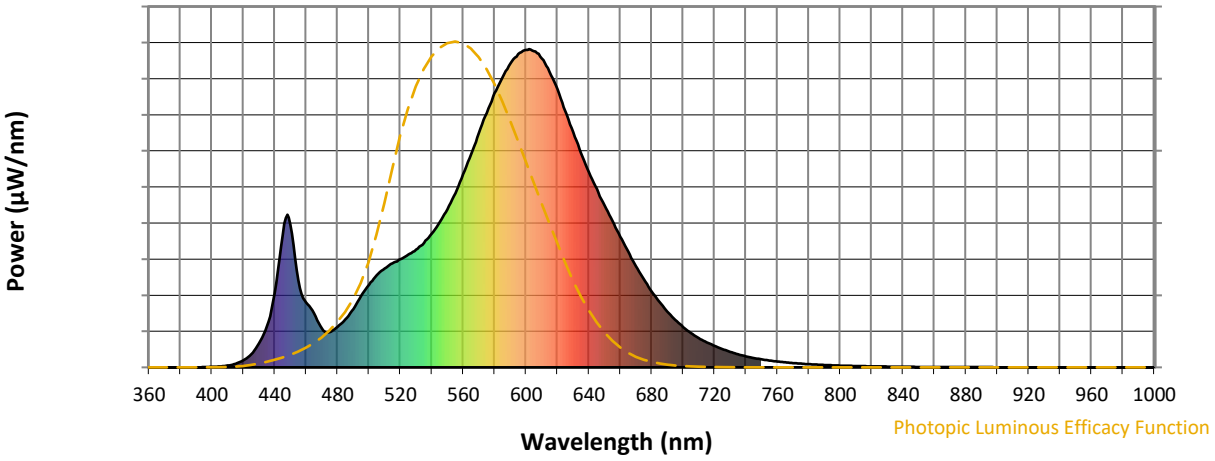


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

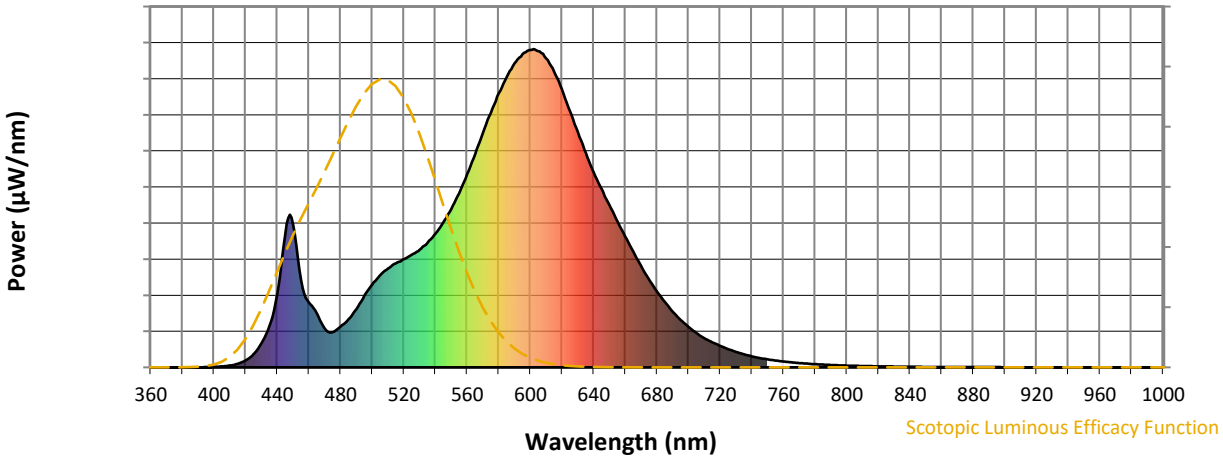


Photopic Lumens: NR

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

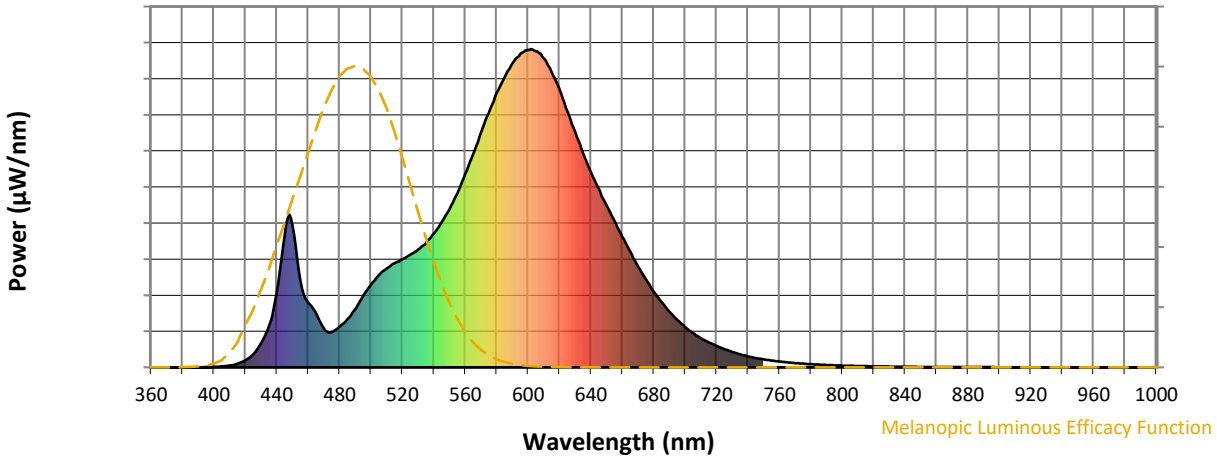


Scotopic Lumens: NR **S/P: 1.18**

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			

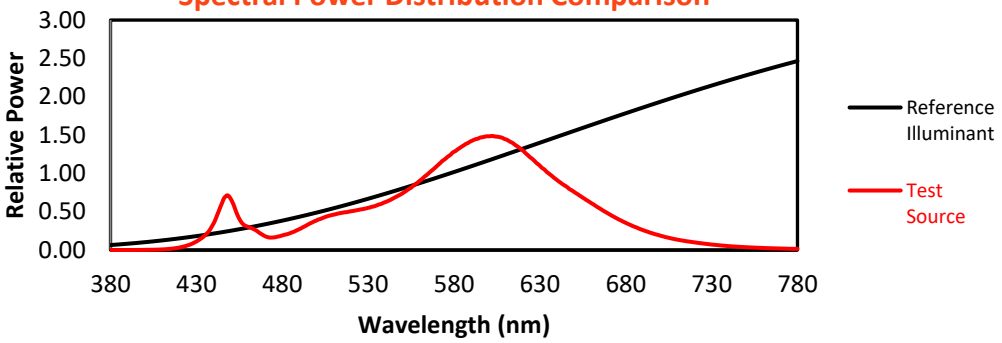
REPORT NUMBER: SP1-2501-332-8

TM-30-18

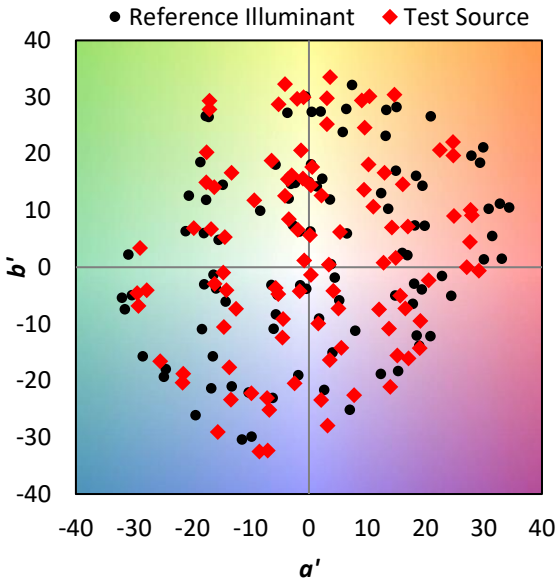
Summary

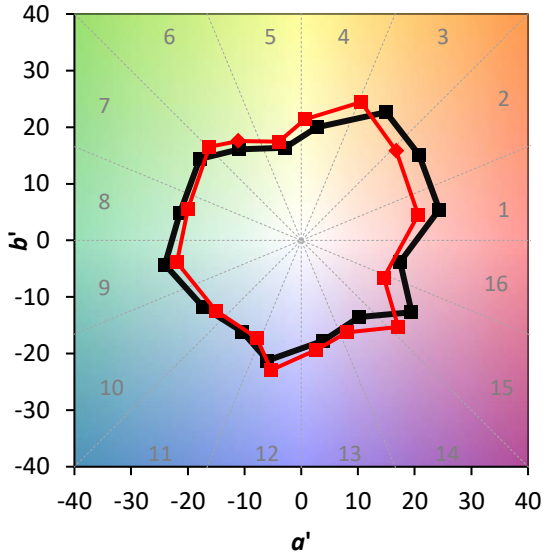
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

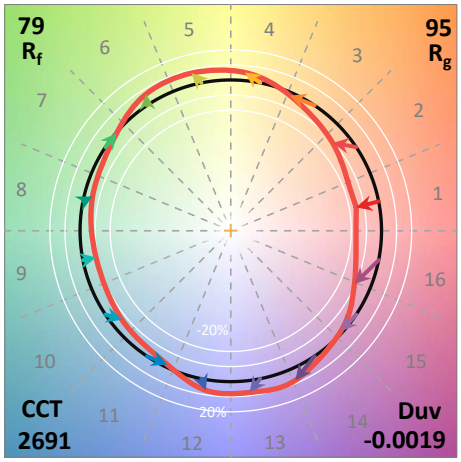
Spectral Power Distribution Comparison

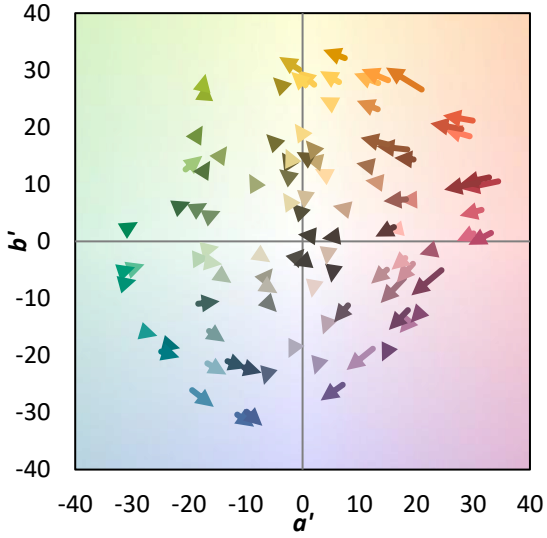


Color Vector Graphics







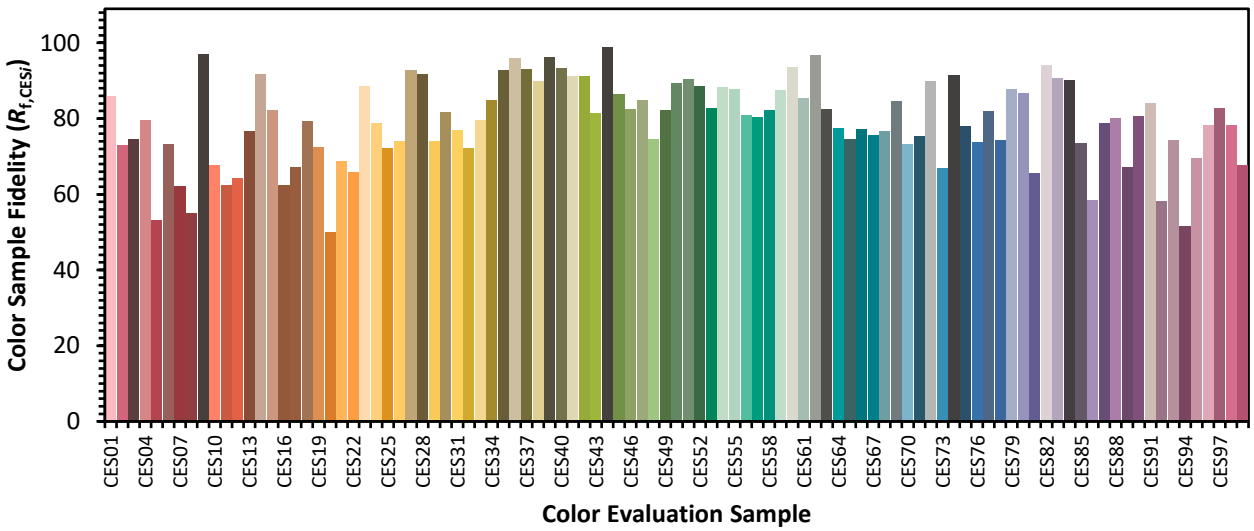


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

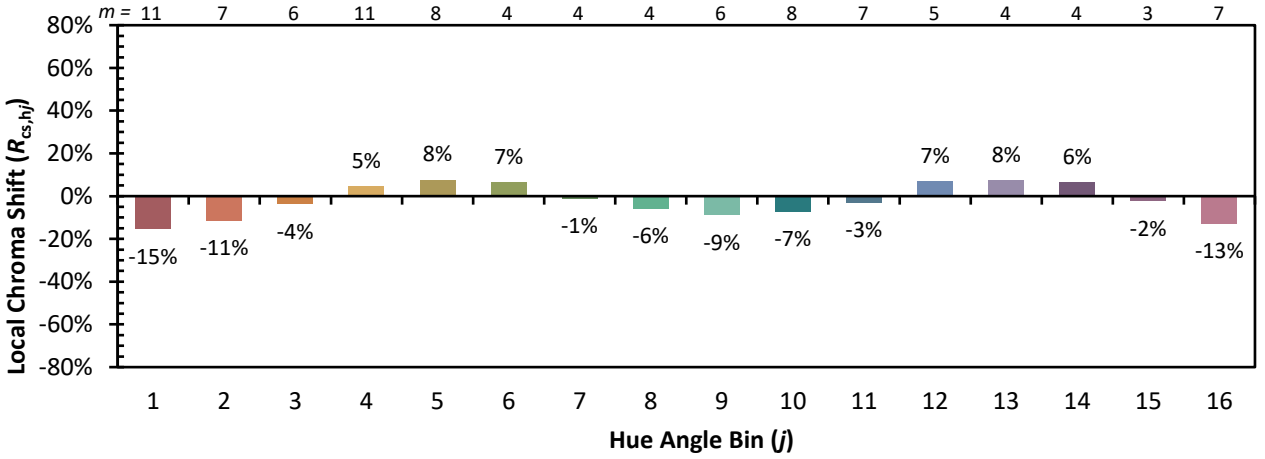
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

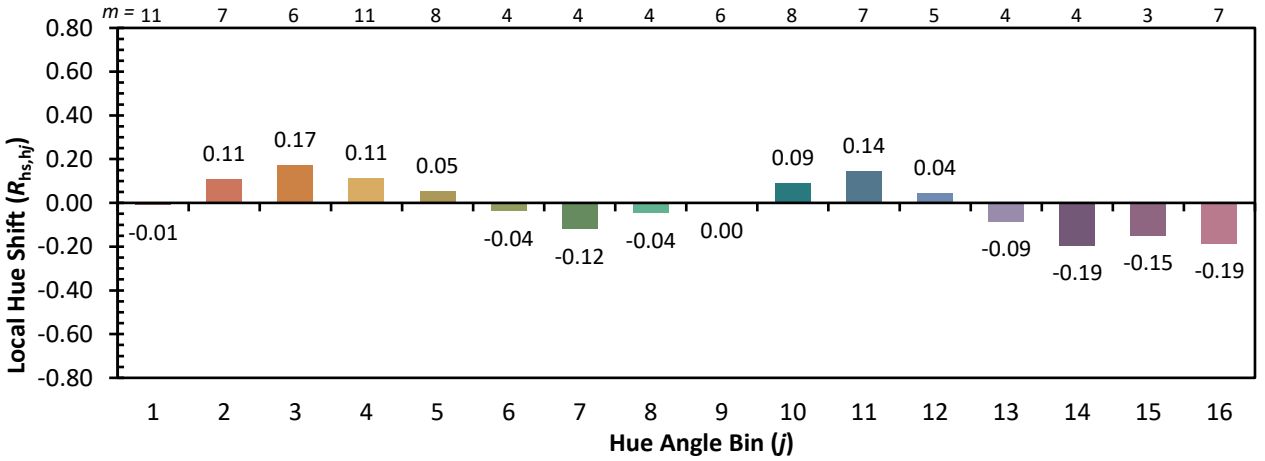


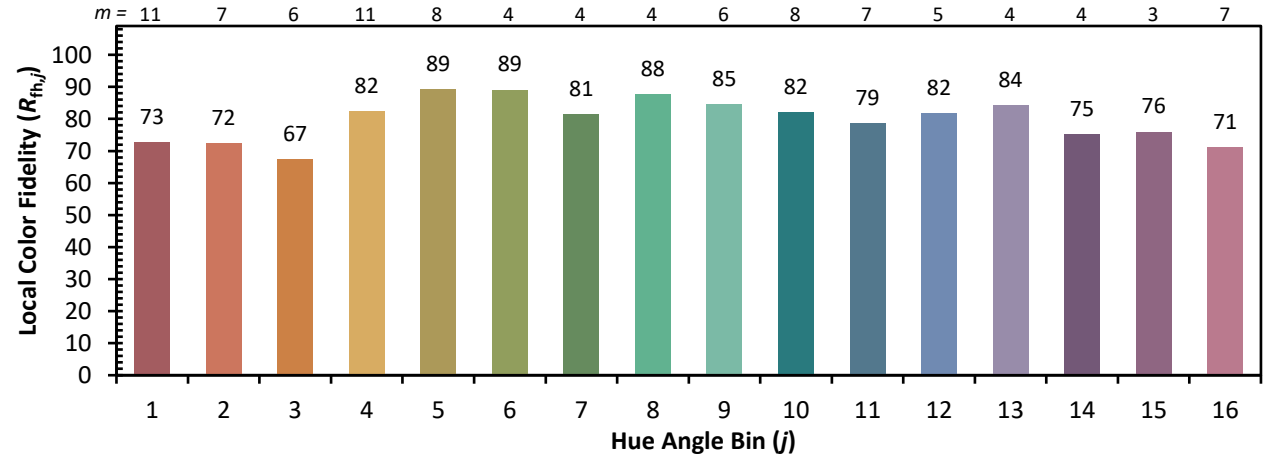
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Color Rendition by Hue-Angle Bin



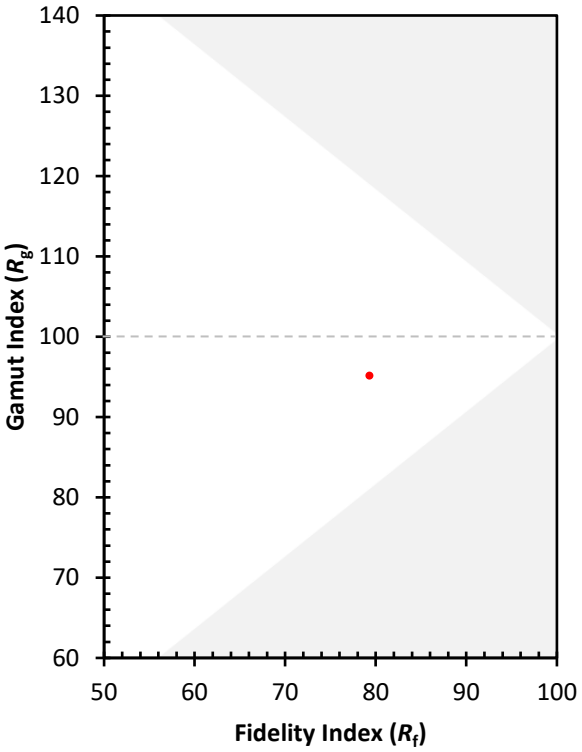


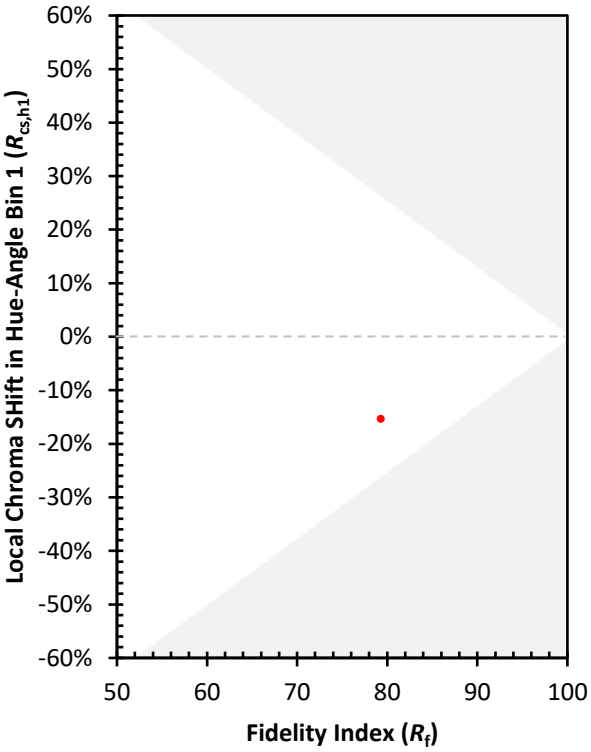


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Measure Comparisons





(END OF REPORT)