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: P1046377

Luminaire Tested: **FFX-CLB-40-727-U-FR-T4**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046377
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
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5925.6 lumens
Efficiency:	N/A
Efficacy:	150.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - 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

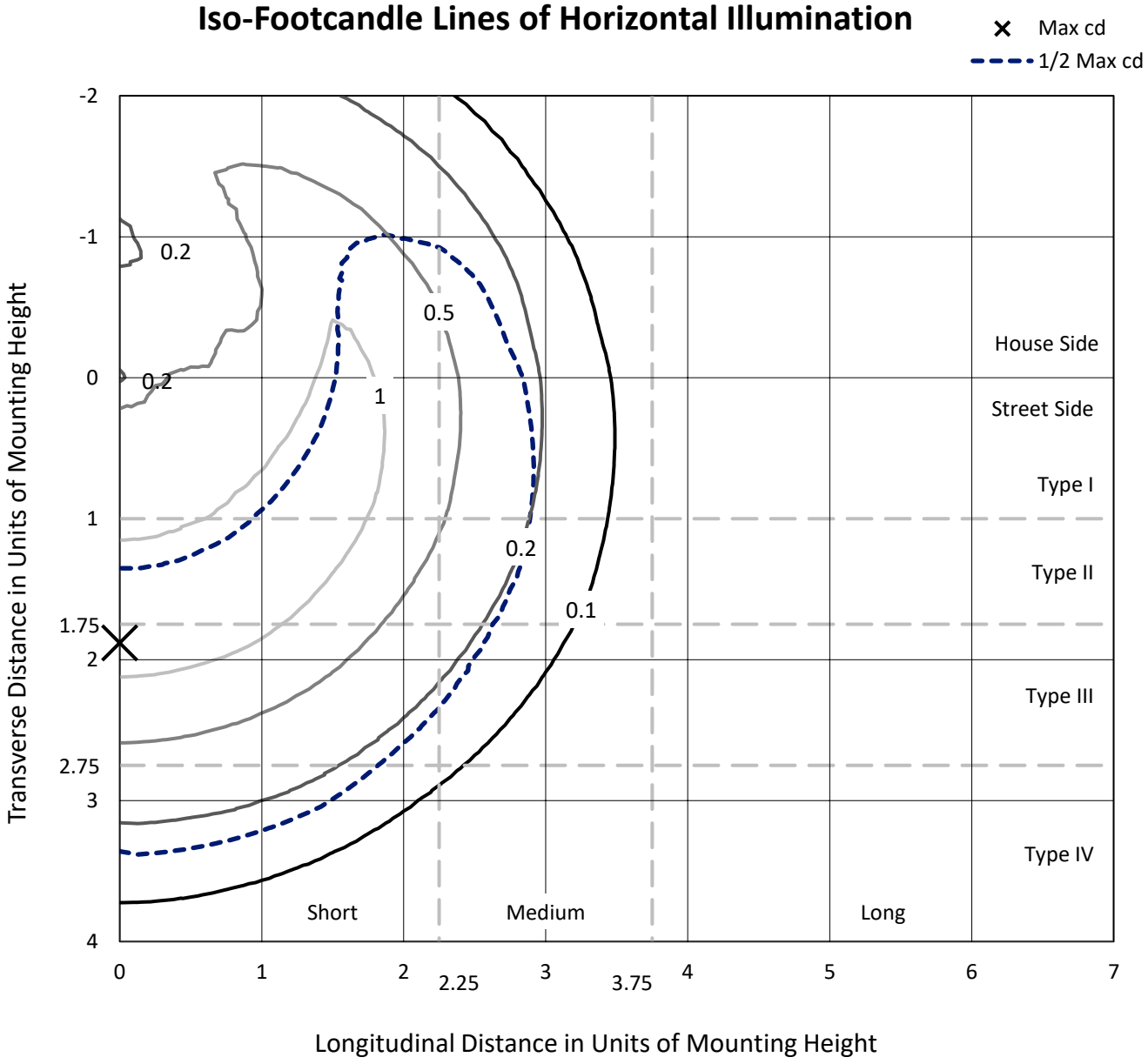


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Iso-Footcandle Lines of Horizontal Illumination



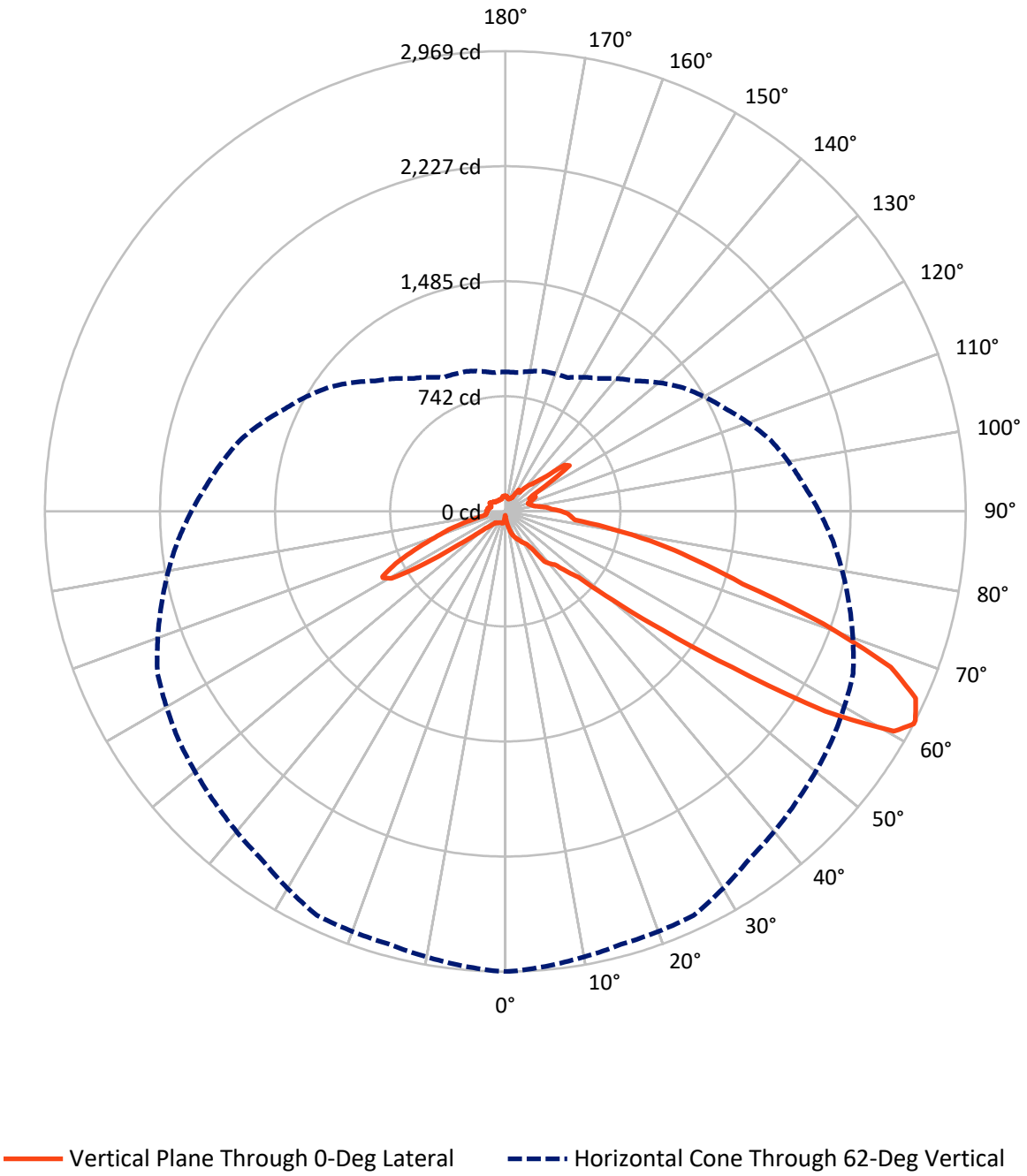
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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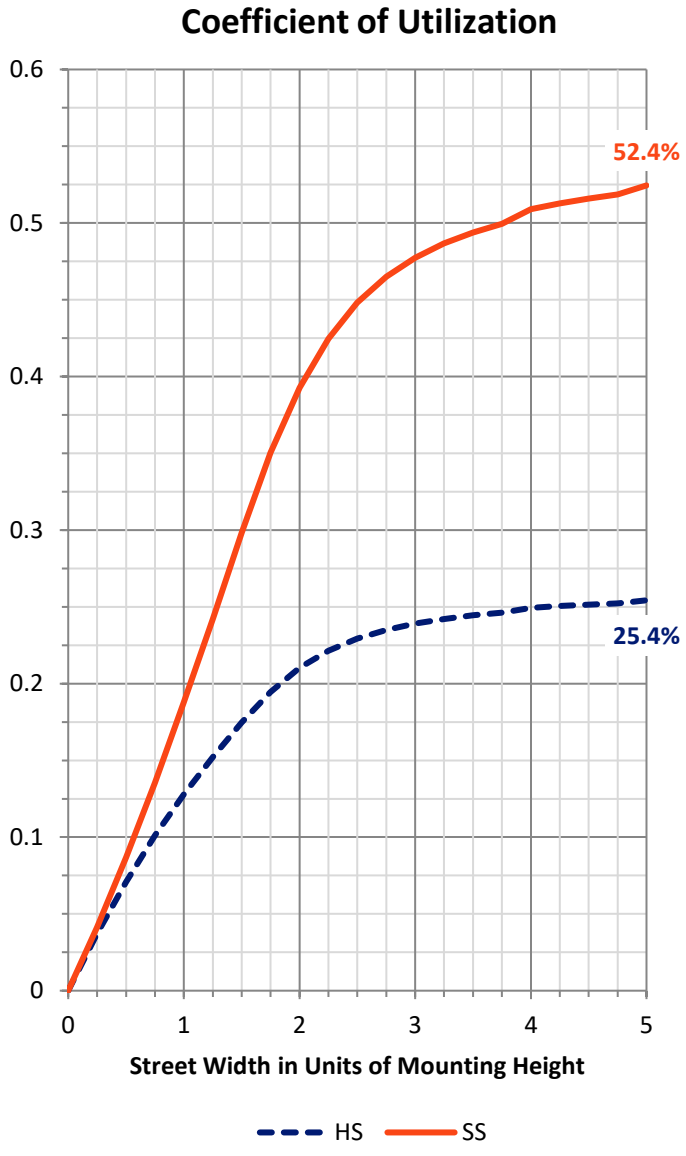
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1559.1	445.5	2004.6
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	3236.8	684.2	3921.0
	% Fixture	54.6	11.5	66.2
Total	Lumens	4795.9	1129.7	5925.6
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.1
10°-20°	32.9	0.6
20°-30°	71.2	1.2
30°-40°	142.5	2.4
40°-50°	312.1	5.3
50°-60°	1092.7	18.4
60°-70°	1828.8	30.9
70°-80°	949.2	16.0
80°-90°	360.5	6.1
90°-100°	229.9	3.9
100°-110°	152.4	2.6
110°-120°	159.1	2.7
120°-130°	265.9	4.5
130°-140°	160.1	2.7
140°-150°	84.6	1.4
150°-160°	44.5	0.8
160°-170°	24.1	0.4
170°-180°	9.0	0.2
0°-90°	4795.9	80.9
0°-180°	5925.6	100.0



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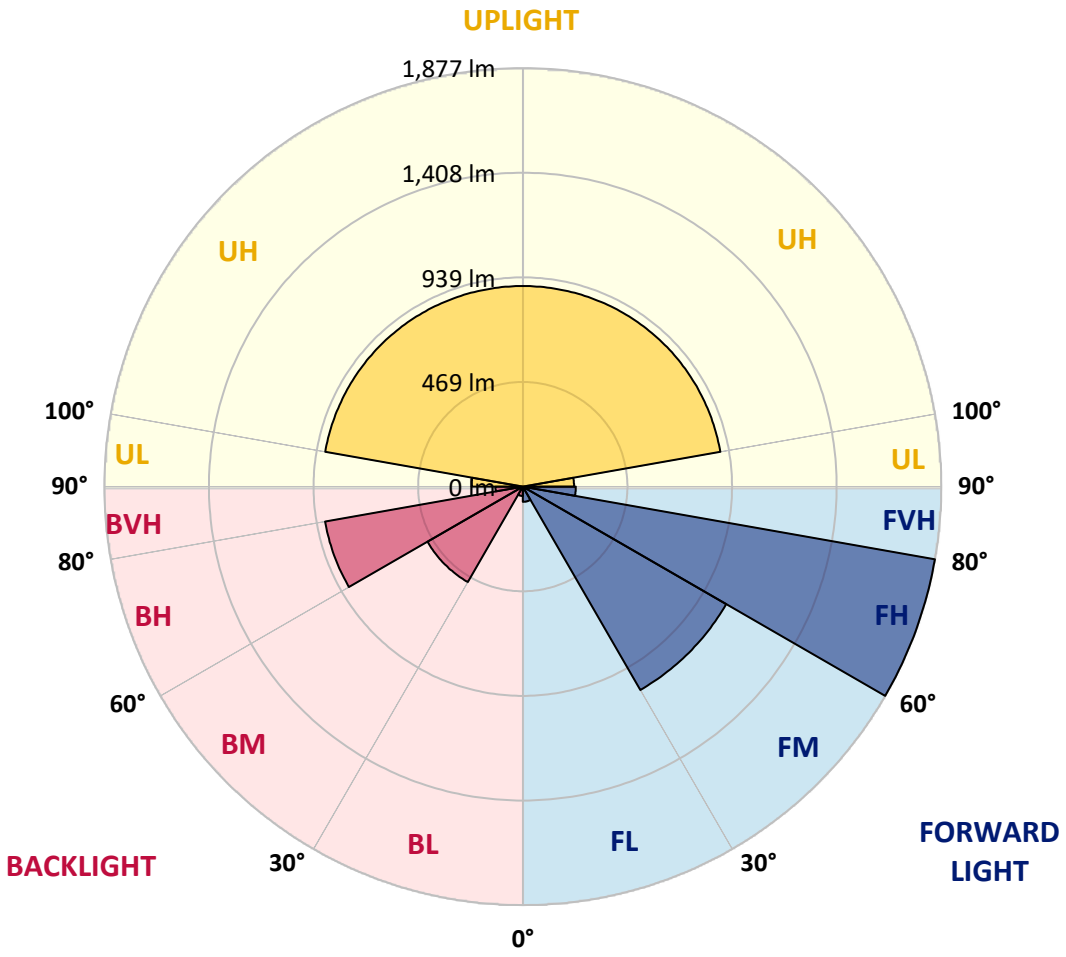
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	68.3	1.2			
FM	(30°-60°)	1053.5	17.8			
FH	(60°-80°)	1877.2	31.7			G2/5000
FVH	(80°-90°)	237.8	4.0			G3/500
BL	(0°-30°)	41.8	0.7	B0/110		
BM	(30°-60°)	493.8	8.3	B1/1000		
BH	(60°-80°)	900.8	15.2	B2/1000		G2/1000
BVH	(80°-90°)	122.7	2.1			G2/225
UL	(90°-100°)	229.9	3.9		U3/500	
UH	(100°-180°)	899.8	15.2		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	*36.9*	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
2.5°	*37.3*	36.6	36.6	38.1	40.0	40.0	40.3	39.2	39.2	38.8	39.2
5°	*54.3*	52.8	53.5	53.9	54.7	55.4	56.2	56.2	54.7	53.5	50.5
7.5°	*75.8*	75.4	76.1	75.8	75.0	76.9	78.0	80.7	81.4	76.5	70.5
10°	*97.6*	96.5	96.1	96.5	96.9	95.7	98.0	99.9	97.3	91.6	86.3
12.5°	*121.4*	121.4	121.4	121.0	121.0	120.6	119.9	119.5	116.9	110.4	102.2
15°	*147.8*	148.1	148.9	148.5	146.6	143.6	141.4	139.5	138.0	133.4	122.9
17.5°	*164.0*	163.2	164.0	163.6	162.8	161.0	156.8	153.0	148.1	141.7	133.8
20°	*179.1*	178.7	178.3	178.3	177.5	175.3	172.6	166.6	160.2	153.4	144.4
22.5°	*190.7*	190.0	190.7	190.4	190.0	189.2	184.7	179.4	172.3	164.7	155.3
25°	*205.8*	205.4	205.8	204.7	204.7	203.6	200.9	194.1	186.2	177.9	166.2
27.5°	*222.4*	221.3	222.4	222.0	220.5	217.5	215.2	207.7	197.9	190.0	179.4
30°	*236.3*	236.3	237.1	234.8	236.3	233.7	228.4	220.1	211.8	201.7	190.7
32.5°	*251.0*	251.0	250.3	249.9	251.8	248.4	242.4	232.6	225.8	215.2	205.8
35°	*292.1*	289.1	294.0	293.6	303.1	296.3	285.0	271.8	261.2	247.7	235.2
37.5°	*410.1*	408.6	406.4	392.0	375.4	378.1	380.0	365.3	352.1	327.6	298.5
40°	*443.7*	443.3	442.9	434.6	439.1	427.1	421.1	413.5	411.3	379.2	340.4
42.5°	*471.2*	466.7	471.2	486.3	510.0	501.7	471.2	432.0	424.8	394.3	378.5
45°	*545.8*	542.8	550.3	554.9	547.3	533.8	542.4	513.8	494.2	450.8	421.8
47.5°	*635.2*	632.1	639.3	643.1	658.5	644.2	637.4	612.9	580.1	539.0	501.3
50°	*901.7*	867.7	895.3	885.8	889.6	857.6	870.4	835.3	805.9	738.4	670.2
52.5°	*1273.0*	1261.7	1242.8	1221.7	1237.9	1203.6	1214.2	1176.1	1122.9	1044.5	943.9
55°	*1775.4*	1737.4	1749.4	1792.8	1783.7	1722.3	1711.7	1619.0	1523.6	1406.4	1300.5
57.5°	*2432.8*	2414.0	2392.1	2363.1	2334.8	2271.1	2239.8	2136.2	1988.0	1824.4	1677.1
60°	*2880.3*	2865.2	2855.4	2766.8	2714.8	2586.6	2557.6	2485.6	2353.7	2175.8	1972.6
62°	*2969.2*	*2967.0*	*2947.0*	*2892.0*	*2876.5*	*2740.8*	*2652.6*	*2572.3*	*2475.4*	*2294.9*	*2118.1*
62.5°	*2968.5*	2964.0	2952.3	2906.3	2890.5	2763.4	2667.7	2582.5	2486.0	2308.8	2135.0
65°	*2908.2*	2898.0	2892.7	2865.2	2858.0	2783.4	2656.4	2568.5	2487.5	2292.2	2147.5
67.5°	*2681.3*	2693.3	2694.1	2666.5	2642.8	2598.3	2476.9	2400.8	2345.0	2141.5	2005.0
70°	*2176.5*	2160.3	2143.7	2156.5	2146.0	2121.9	2025.4	1929.6	1859.9	1753.2	1623.9
72.5°	*1599.8*	1625.4	1625.0	1628.8	1630.7	1570.0	1527.0	1472.0	1434.3	1341.9	1249.6
75°	*1282.4*	1284.6	1277.5	1251.1	1222.8	1187.8	1195.3	1190.4	1172.3	1074.7	983.1
77.5°	*1012.5*	987.6	997.8	956.3	919.8	919.4	934.1	948.4	956.3	877.9	807.1
80°	*712.8*	707.2	698.1	701.9	671.7	679.6	686.8	696.6	681.1	634.8	602.0
82.5°	*450.1*	445.2	438.0	472.7	501.7	495.3	472.3	435.4	426.7	430.1	422.6
85°	*425.6*	425.2	418.8	415.4	410.9	400.7	406.4	414.3	409.7	384.1	350.9
87.5°	*401.8*	400.7	395.8	393.9	385.2	384.1	389.4	392.4	394.3	371.3	343.4
90°	*352.1*	347.5	343.0	346.8	345.7	346.4	347.9	347.2	347.9	320.8	309.1
92.5°	*293.6*	292.5	289.1	291.0	293.6	304.2	299.7	292.5	291.4	280.5	269.1
95°	*268.0*	268.8	264.6	267.3	268.0	268.0	265.0	261.6	259.0	250.3	240.1
97.5°	*222.0*	218.6	217.1	219.0	219.8	217.1	215.2	209.6	209.2	200.5	195.6
100°	*188.9*	188.1	187.3	189.6	190.4	189.2	189.6	186.2	185.8	180.9	175.7
102.5°	*176.4*	176.0	175.7	177.5	178.3	177.5	176.4	173.0	173.8	168.5	164.7
105°	*166.6*	166.6	166.2	167.4	165.1	164.0	162.5	162.5	163.2	159.1	153.4
107.5°	*155.7*	155.3	155.7	155.3	152.7	151.5	151.2	150.0	152.7	150.4	144.4

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*157.6*	157.6	157.2	153.0	151.5	149.6	148.9	150.8	150.0	146.3	142.5
112.5°	*193.0*	190.7	192.2	186.6	184.0	185.5	186.2	187.7	190.7	184.7	179.1
115°	*215.6*	216.0	219.8	219.8	214.1	216.7	216.7	216.4	219.4	214.9	209.2
117.5°	*176.0*	178.3	190.4	182.8	184.7	186.2	176.8	173.4	172.6	173.8	185.8
120°	*202.8*	199.8	211.1	187.3	180.2	180.2	187.0	195.6	186.2	171.9	175.7
122.5°	*331.7*	332.1	332.5	342.6	341.5	344.5	339.3	332.5	312.9	313.2	295.5
125°	*507.8*	502.9	502.9	498.3	497.6	490.4	499.5	505.1	490.0	464.4	436.5
127.5°	*485.9*	496.4	492.7	481.4	470.4	466.7	477.2	494.9	486.3	463.6	438.0
130°	*344.9*	347.5	346.8	358.9	361.9	358.1	361.9	349.1	350.9	356.2	342.6
132.5°	*289.1*	287.6	292.9	309.5	315.9	308.3	297.8	288.4	288.7	300.1	299.3
135°	*249.2*	248.0	251.8	252.6	259.7	253.7	244.3	244.3	246.5	249.2	248.0
137.5°	*225.0*	223.5	224.7	216.0	207.3	206.9	214.5	218.6	216.4	213.7	210.7
140°	*193.8*	194.5	192.6	185.5	181.7	182.4	187.3	193.8	191.9	186.2	181.7
142.5°	*154.2*	152.7	154.9	160.2	167.7	167.7	160.2	152.3	151.9	154.5	158.3
145°	*151.9*	151.2	151.5	150.4	151.9	150.4	148.1	145.9	143.2	141.4	139.8
147.5°	*164.7*	164.7	164.4	162.5	161.0	158.3	159.1	161.7	163.2	161.7	159.5
150°	*133.8*	134.9	134.9	134.6	133.1	134.2	135.7	136.5	138.0	138.0	135.7
152.5°	*102.9*	102.5	103.7	102.2	101.8	102.5	104.4	105.9	106.3	106.3	103.3
155°	*98.0*	97.3	98.0	97.3	96.5	97.3	98.8	99.5	100.3	99.1	96.1
157.5°	*91.6*	91.6	91.6	90.8	91.2	91.2	92.0	92.4	92.7	92.4	91.6
160°	*86.7*	86.7	87.1	86.7	86.7	87.5	87.1	86.7	86.7	86.3	85.9
162.5°	*83.7*	83.7	83.7	83.7	83.3	83.3	83.7	83.3	82.9	82.6	83.3
165°	*82.2*	81.8	81.8	81.8	82.2	81.8	81.8	81.8	81.4	82.6	84.1
167.5°	*85.2*	84.4	84.8	85.2	85.2	84.8	84.8	84.8	85.6	86.7	87.8
170°	*89.3*	89.0	89.0	89.3	89.3	89.0	89.0	89.0	89.3	89.7	90.1
172.5°	*92.7*	92.4	92.4	92.4	92.0	91.6	91.6	91.6	91.6	91.6	92.0
175°	*96.1*	96.1	96.1	96.1	95.7	95.4	95.4	95.4	95.4	95.4	95.4
177.5°	*99.9*	99.5	99.9	99.5	99.5	99.5	99.1	98.8	98.4	98.4	98.4
180°	*99.1*	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
2.5°	38.4	38.1	35.8	33.9	32.4	30.9	28.6	26.8	25.3	24.9	24.9
5°	49.8	49.0	46.7	43.7	42.2	40.0	37.7	36.2	34.3	33.5	33.9
7.5°	68.6	69.0	69.7	71.2	70.5	64.1	56.9	55.4	56.9	59.2	60.3
10°	85.2	84.1	83.7	88.6	87.5	78.0	68.6	65.6	68.2	73.1	75.4
12.5°	98.8	96.5	96.1	96.9	92.4	82.2	74.3	70.9	72.4	76.1	75.8
15°	118.7	115.3	110.4	107.4	101.8	94.6	84.8	79.2	79.2	79.2	78.8
17.5°	130.4	126.7	117.2	108.6	101.4	96.1	89.7	84.4	78.8	78.0	77.7
20°	140.6	134.9	124.8	115.3	106.3	98.8	89.7	83.3	78.4	77.7	77.3
22.5°	149.3	144.0	133.1	121.8	110.4	101.8	92.0	85.2	80.3	78.8	78.4
25°	161.0	155.3	142.9	129.7	116.5	105.5	96.5	88.6	82.6	79.5	79.5
27.5°	172.6	166.2	152.3	138.7	124.4	110.8	100.6	92.7	85.2	81.0	80.7
30°	184.0	176.8	161.7	146.3	131.9	117.6	105.9	96.9	88.6	84.1	83.7
32.5°	199.8	191.5	173.8	154.5	140.2	124.8	111.6	101.0	92.4	87.8	87.1
35°	230.7	221.3	201.3	176.4	153.8	133.1	117.2	103.3	95.0	90.1	89.7
37.5°	288.0	277.1	249.2	218.6	187.7	156.4	127.4	106.3	96.9	92.4	91.6
40°	322.3	300.8	271.4	247.3	223.9	193.8	156.4	123.3	100.6	95.4	94.6
42.5°	366.8	344.5	301.9	255.9	226.2	202.4	176.0	154.5	122.1	103.3	99.9
45°	409.0	392.0	355.5	306.5	261.2	220.1	187.3	166.6	145.9	124.4	121.0
47.5°	479.9	455.0	406.7	356.6	310.6	264.6	225.8	185.5	158.7	145.9	145.1
50°	661.5	616.3	546.6	486.6	399.9	329.5	283.5	229.6	195.3	175.3	168.9
52.5°	896.4	849.3	769.7	683.0	586.9	496.1	406.0	328.7	272.9	237.9	239.0
55°	1246.2	1199.1	1082.2	933.7	801.8	707.2	610.7	516.8	427.1	375.4	369.0
57.5°	1615.2	1573.0	1473.1	1291.8	1081.8	906.9	792.4	726.0	680.0	623.9	623.9
60°	1885.9	1815.8	1702.7	1519.9	1333.7	1103.7	956.7	861.7	853.4	843.6	851.2
62°	*2024.2*	*1933.8*	*1772.4*	*1567.0*	*1394.0*	*1189.3*	*1046.4*	*952.2*	*935.6*	*898.7*	*899.4*
62.5°	2047.6	1947.7	1784.1	1567.0	1399.2	1196.8	1056.2	964.2	941.2	896.0	896.8
65°	2071.0	1950.7	1792.8	1541.7	1369.5	1170.8	1062.6	942.8	882.4	806.7	784.4
67.5°	1936.8	1813.5	1678.2	1433.5	1254.5	1062.6	942.8	822.5	724.1	647.2	635.2
70°	1573.0	1476.1	1371.7	1184.8	1028.3	873.0	771.2	662.7	564.7	479.9	485.1
72.5°	1193.8	1103.3	1007.6	888.8	791.6	687.2	597.1	509.6	428.2	375.4	385.2
75°	924.7	864.3	796.5	710.2	636.3	539.8	437.3	359.6	304.6	272.5	274.4
77.5°	760.3	697.7	642.3	563.2	493.1	394.3	295.5	229.2	197.1	182.8	179.1
80°	584.7	539.0	490.0	419.2	341.9	265.8	198.7	167.7	146.6	136.1	131.9
82.5°	408.2	380.0	338.9	287.6	243.1	215.2	186.2	160.2	138.3	128.5	124.0
85°	336.2	321.2	298.5	269.5	243.1	212.2	179.8	153.4	134.6	127.0	122.9
87.5°	327.6	317.4	291.8	260.8	229.2	197.5	164.7	140.2	128.2	123.3	119.5
90°	300.4	288.7	270.7	240.1	211.8	177.9	151.2	136.5	127.4	121.8	117.6
92.5°	262.0	255.6	239.0	217.1	197.5	175.7	156.4	143.2	133.8	127.0	122.9
95°	233.0	225.4	216.0	198.3	182.1	164.4	146.6	134.2	124.4	117.2	113.8
97.5°	191.5	186.2	177.2	165.5	153.4	139.1	126.7	118.4	112.0	108.6	106.3
100°	173.8	170.4	165.1	156.8	147.0	136.8	127.8	123.3	120.6	118.4	117.2
102.5°	161.0	157.2	153.0	144.4	136.8	127.8	121.8	118.0	114.6	110.8	110.1
105°	149.6	146.6	141.0	133.8	126.3	117.6	110.4	108.2	105.2	101.8	101.4
107.5°	141.0	138.0	133.1	125.5	118.7	111.2	104.8	101.4	98.0	96.1	95.7

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

Scaled Data Report

REPORT NUMBER: P1046377
CATALOG NUMBER: FFX-CLB-40-727-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	140.2	138.0	132.7	126.3	121.0	113.5	106.3	105.2	101.4	96.9	96.5
112.5°	174.9	167.7	157.6	147.0	138.0	130.4	121.4	112.3	104.8	100.3	99.5
115°	202.8	195.6	183.2	167.7	153.4	137.2	121.8	110.4	106.3	105.2	106.7
117.5°	190.7	175.7	154.5	145.1	132.7	124.0	118.0	115.3	108.6	110.4	112.3
120°	183.2	173.0	154.5	153.0	147.4	137.6	123.6	120.6	116.9	113.8	113.5
122.5°	294.4	284.6	263.5	231.4	196.8	173.4	164.7	146.6	124.8	108.2	105.5
125°	417.3	401.5	360.0	324.6	278.6	229.2	184.7	146.6	116.9	101.0	99.1
127.5°	425.6	407.9	371.7	323.8	265.4	205.1	159.1	131.6	111.6	101.0	99.1
130°	331.7	320.4	293.6	248.8	208.5	172.6	146.6	124.4	106.3	98.4	97.3
132.5°	293.3	283.1	245.0	207.7	180.9	153.4	131.6	110.4	95.0	89.7	89.0
135°	242.4	231.1	205.8	182.8	163.2	141.0	119.1	101.0	90.1	87.5	87.1
137.5°	206.9	201.7	182.8	166.6	148.9	129.7	111.6	97.6	90.8	88.6	88.2
140°	178.7	177.5	165.9	151.5	133.8	113.5	99.5	91.2	88.6	87.5	87.1
142.5°	157.9	156.4	143.6	127.0	111.2	100.6	95.4	92.7	90.5	87.5	86.7
145°	136.8	134.2	126.3	119.1	114.2	110.8	105.9	97.6	89.0	84.4	84.1
147.5°	155.7	151.2	142.5	132.3	121.8	110.8	100.6	92.0	84.8	82.2	81.8
150°	130.8	130.4	124.8	116.9	108.9	99.1	91.6	85.9	82.9	82.6	82.6
152.5°	101.4	101.4	101.4	99.5	95.7	90.5	84.8	81.4	81.4	82.9	83.3
155°	95.4	95.7	96.1	95.4	92.4	87.5	82.6	81.0	81.4	82.9	83.3
157.5°	90.8	90.8	91.2	90.5	89.0	85.6	82.2	80.7	81.0	81.8	82.2
160°	85.6	85.6	85.9	85.9	84.4	83.3	81.8	80.7	80.7	81.0	81.4
162.5°	83.7	83.7	83.7	83.7	83.3	83.3	83.3	83.3	82.9	82.9	82.9
165°	84.4	84.4	83.3	82.9	83.7	84.8	86.7	87.1	85.2	84.8	84.8
167.5°	88.2	88.2	87.1	86.3	87.5	88.6	91.2	92.0	90.5	89.0	89.0
170°	90.5	90.5	90.5	90.8	91.2	92.4	93.9	94.6	94.2	93.9	93.9
172.5°	92.0	92.0	92.7	93.5	94.6	95.4	96.1	96.9	97.6	97.6	98.0
175°	95.0	95.4	96.1	96.5	97.3	98.0	98.8	99.5	99.9	99.9	99.9
177.5°	98.0	98.0	98.0	98.4	98.8	99.1	99.5	99.9	99.9	100.3	100.6
180°	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

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

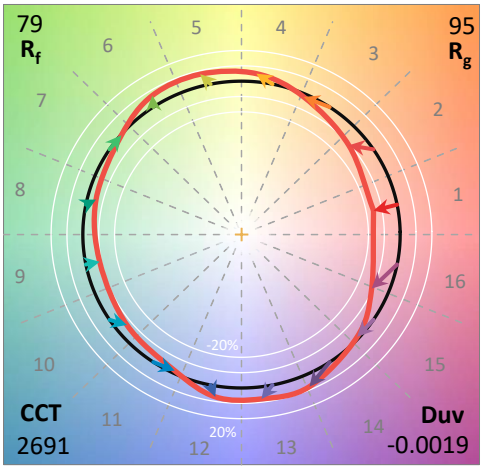
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

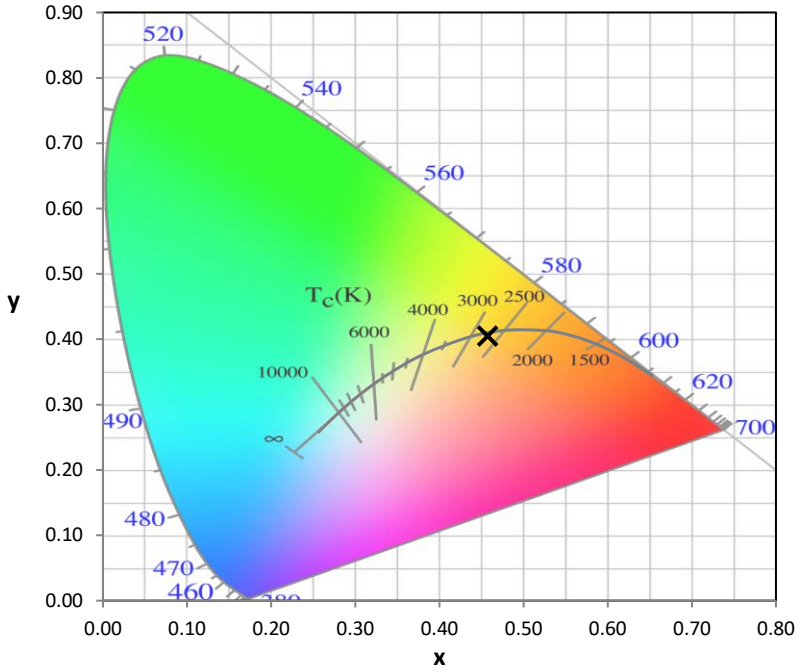
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

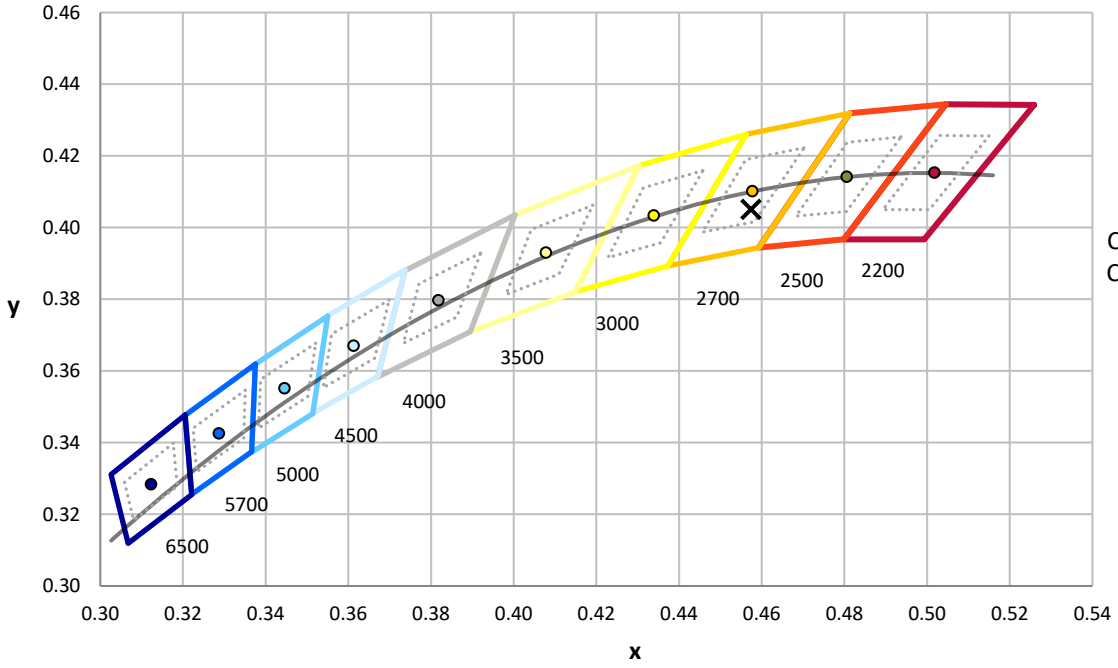
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

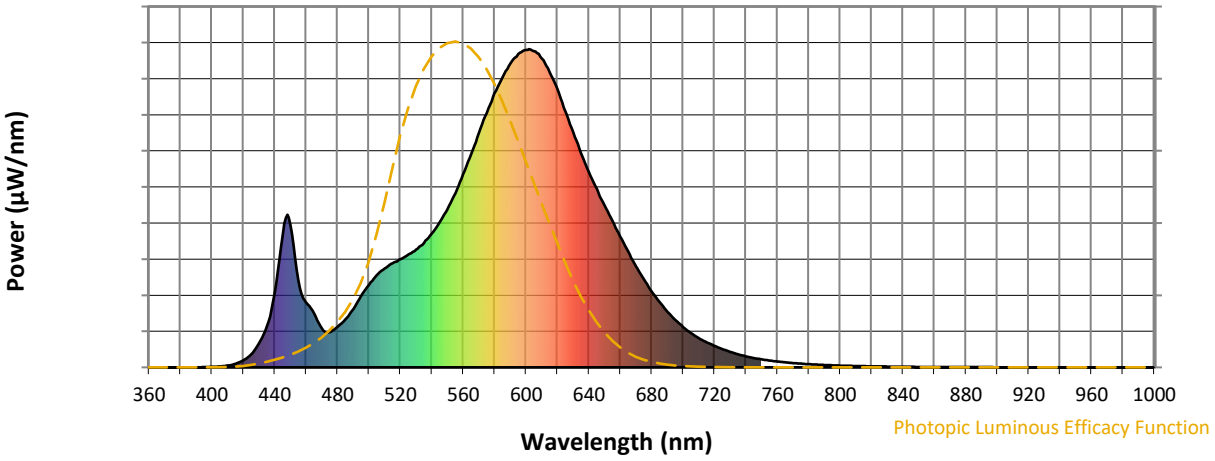


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

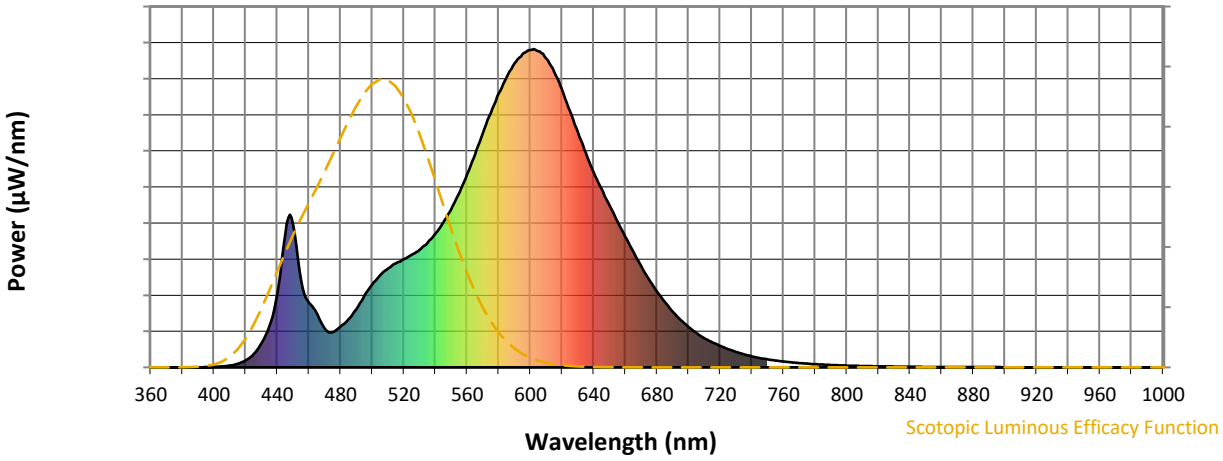


Photopic Lumens: NR

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

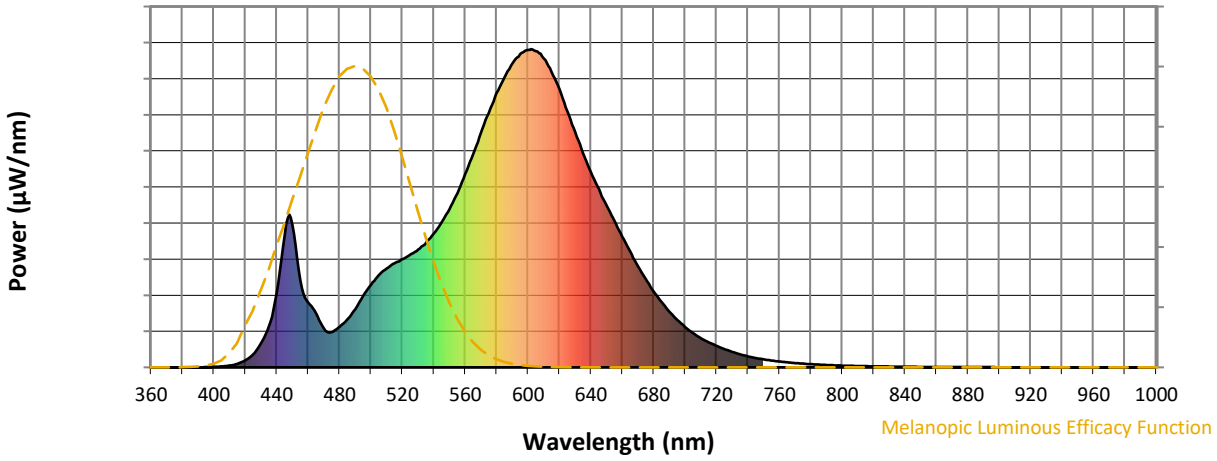


Scotopic Lumens: NR **S/P: 1.18**

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			

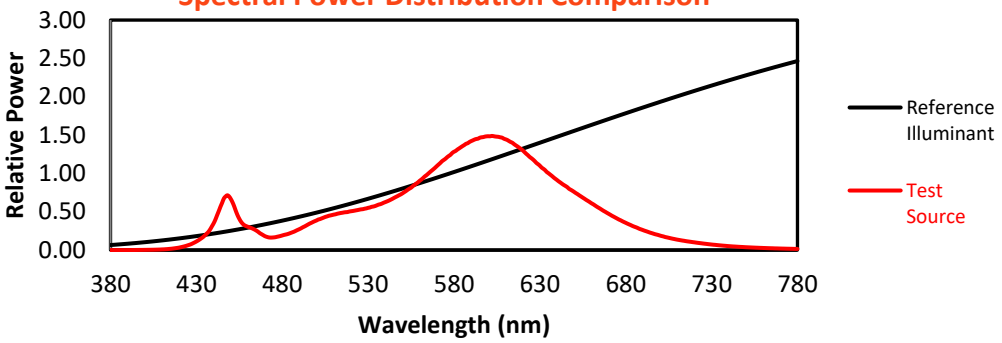
REPORT NUMBER: SP1-2501-332-8

TM-30-18

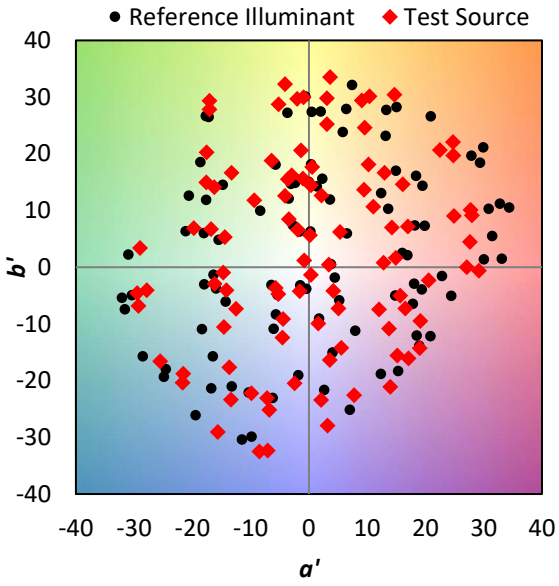
Summary

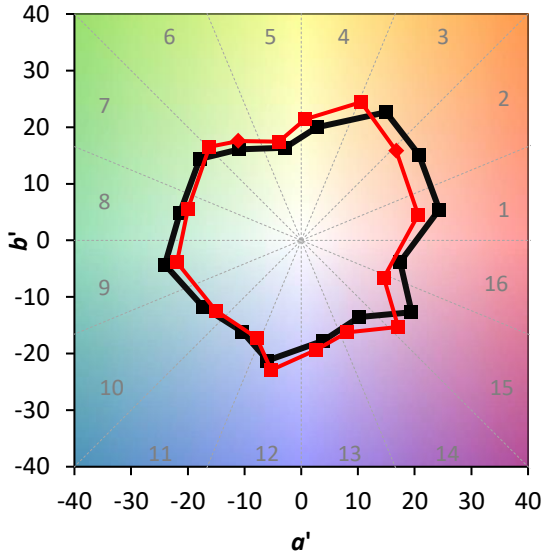
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

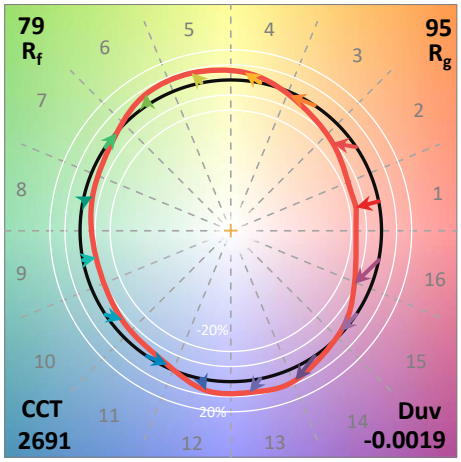
Spectral Power Distribution Comparison

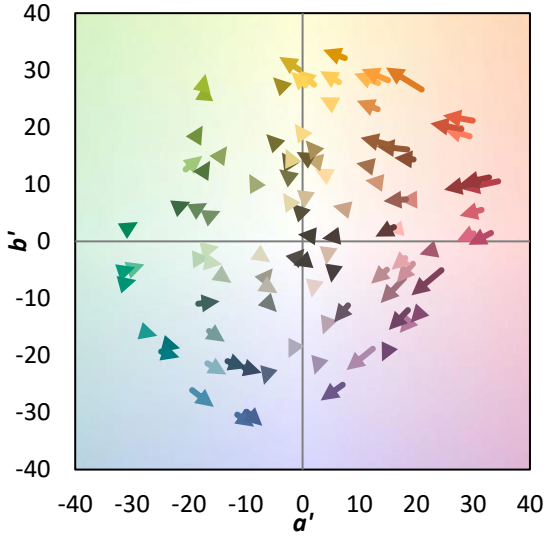


Color Vector Graphics







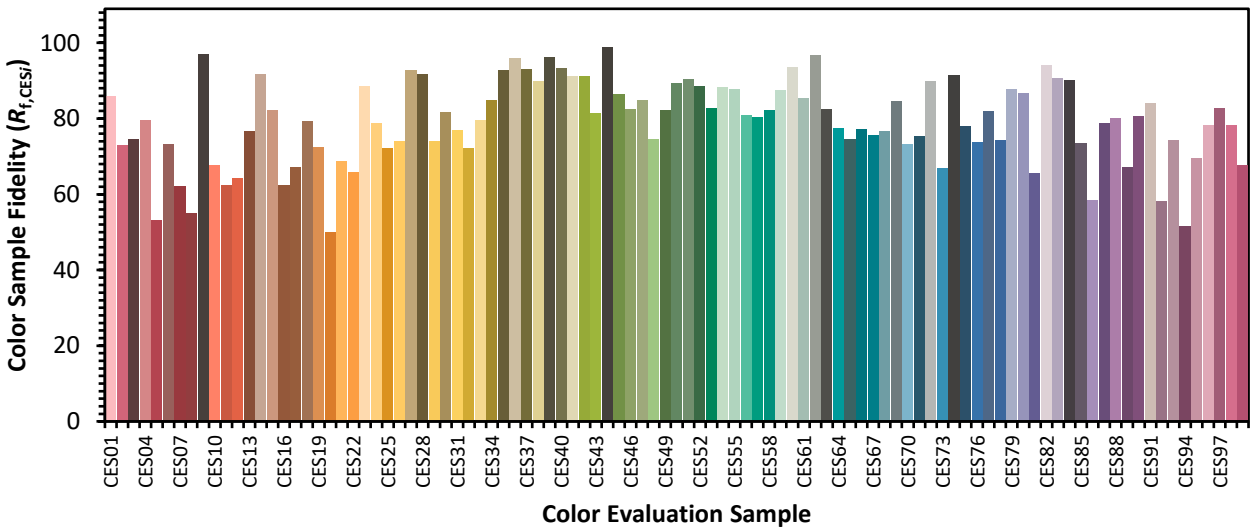


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

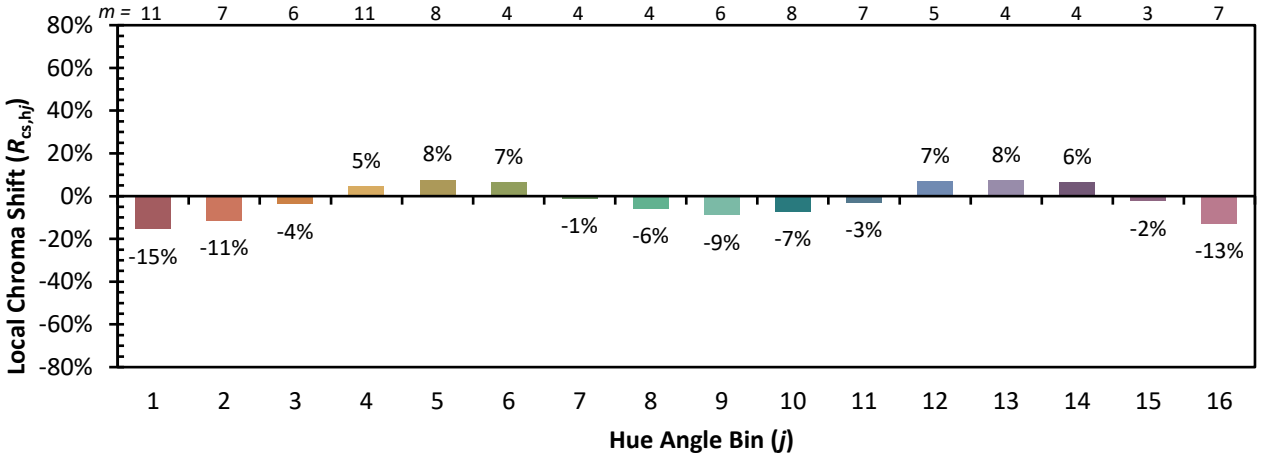
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

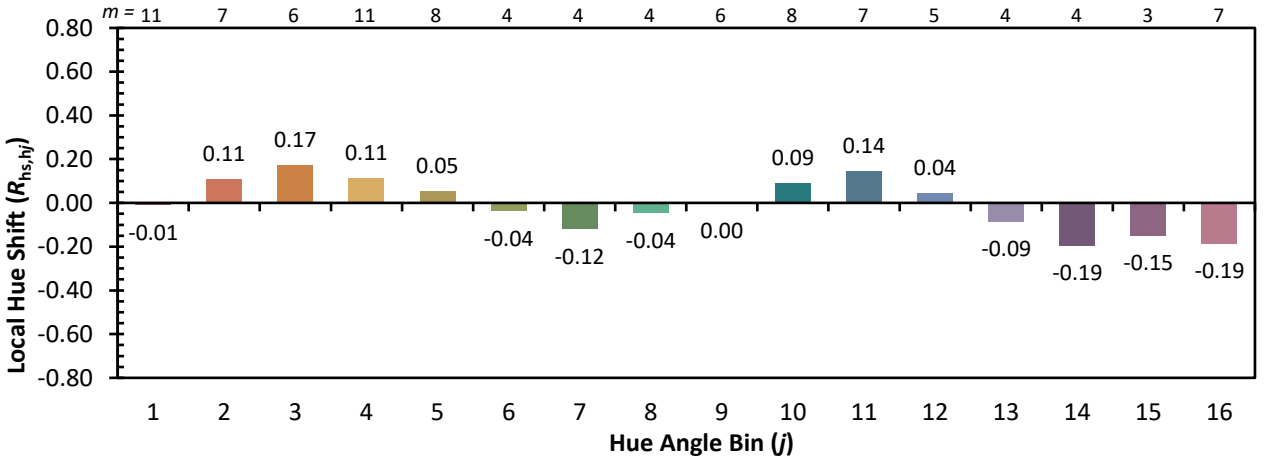


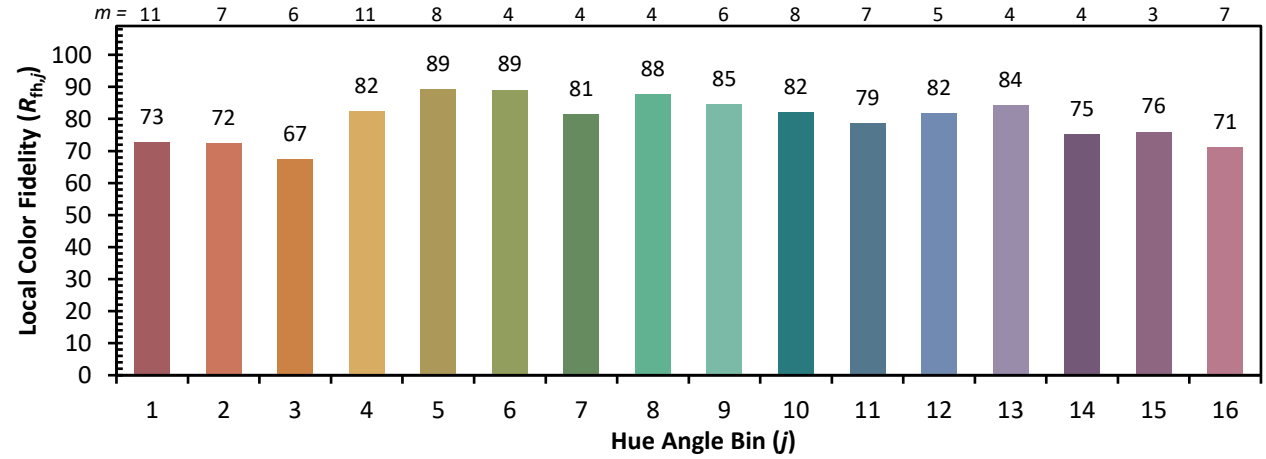
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Color Rendition by Hue-Angle Bin



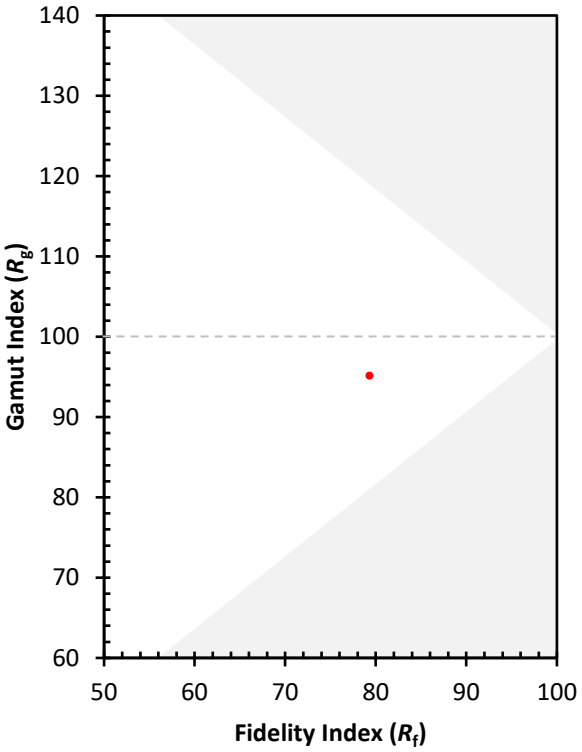


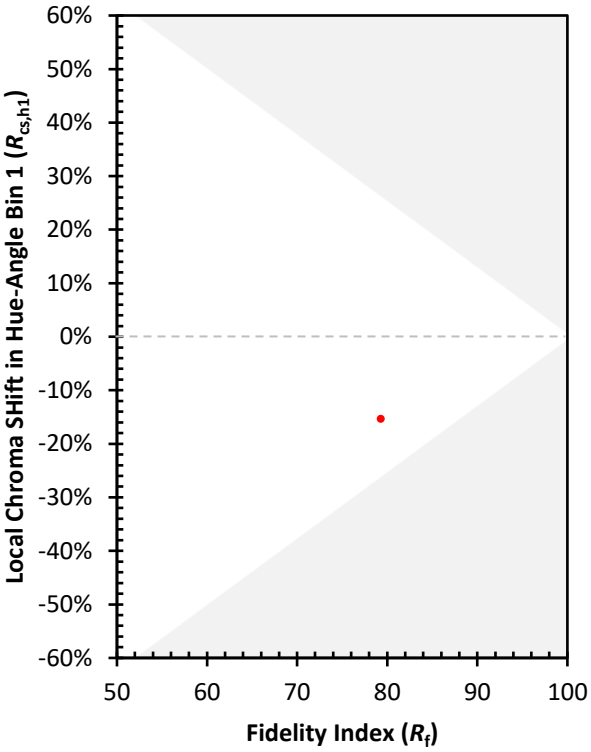


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Measure Comparisons





(END OF REPORT)