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: P1046427

Luminaire Tested: **FFX-CLB-80-730-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:	P1046427
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-730-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12140.3 lumens
Efficiency:	N/A
Efficacy:	148.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U5 - G4

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

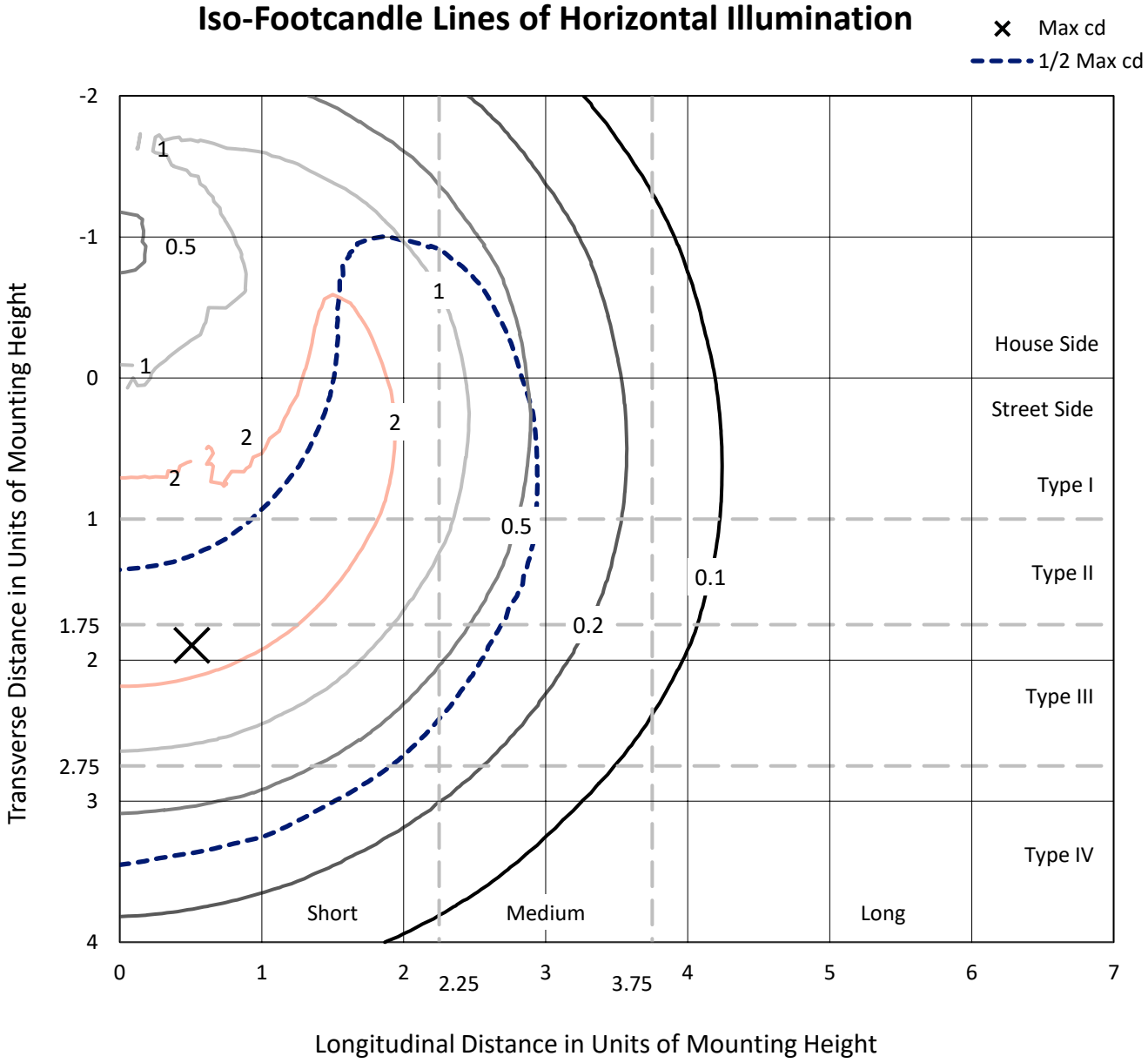


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Iso-Footcandle Lines of Horizontal Illumination



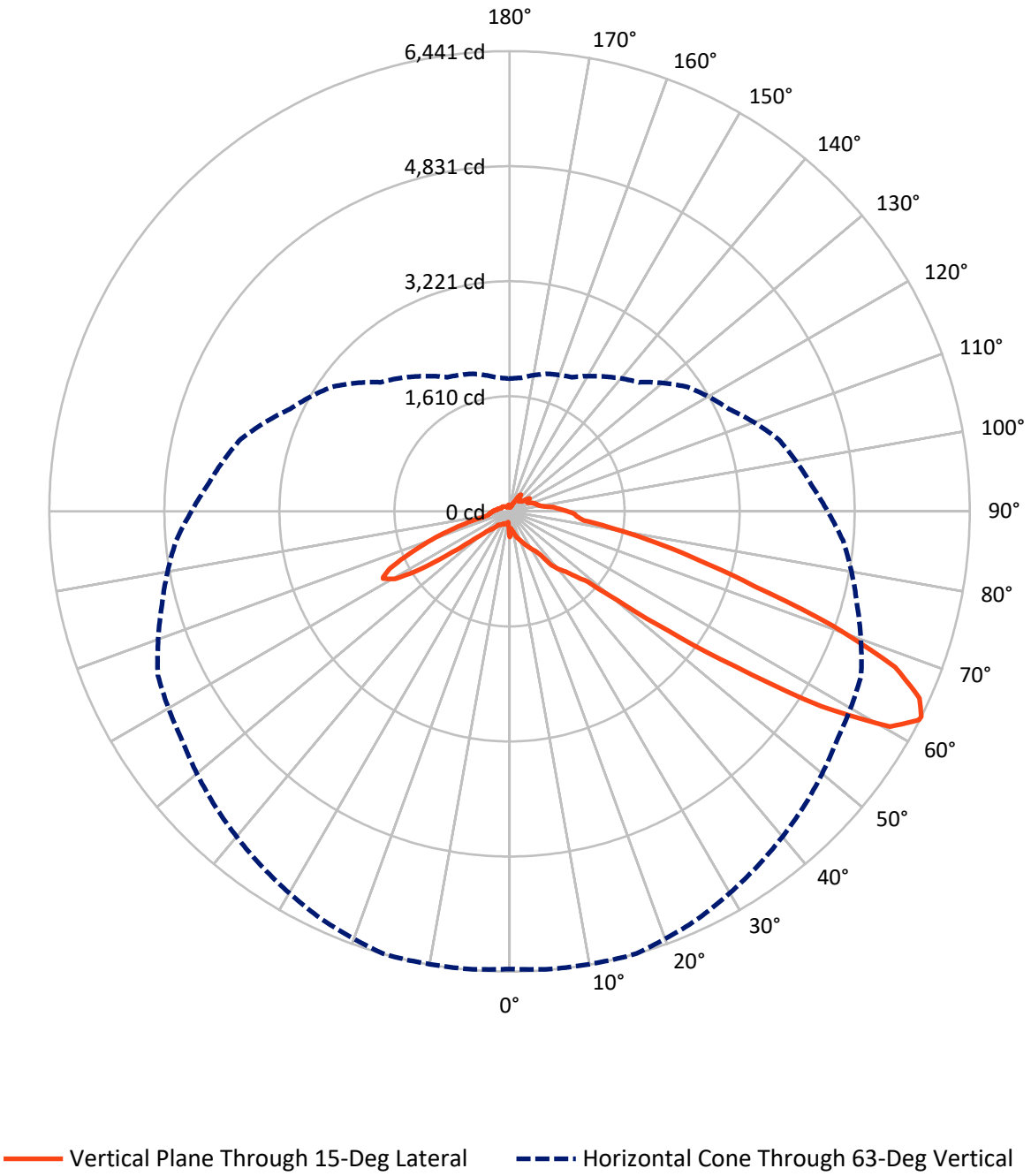
Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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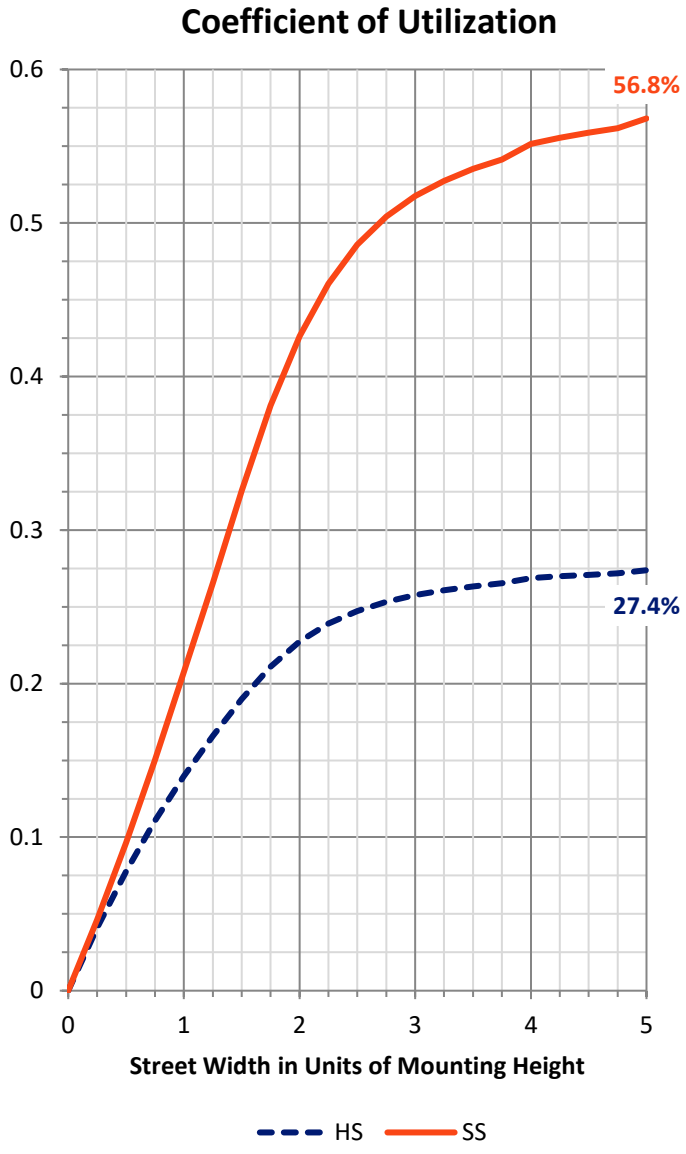
REPORT NUMBER: P1046427
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3433.5	559.4	3992.9
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	7189.2	958.2	8147.4
	% Fixture	59.2	7.9	67.1
Total	Lumens	10622.7	1517.7	12140.3
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	0.2
10°-20°	79.5	0.7
20°-30°	172.2	1.4
30°-40°	354.1	2.9
40°-50°	730.1	6.0
50°-60°	2401.7	19.8
60°-70°	3976.5	32.8
70°-80°	2085.7	17.2
80°-90°	800.9	6.6
90°-100°	483.8	4.0
100°-110°	304.7	2.5
110°-120°	225.6	1.9
120°-130°	192.1	1.6
130°-140°	125.3	1.0
140°-150°	108.9	0.9
150°-160°	49.8	0.4
160°-170°	20.4	0.2
170°-180°	7.1	0.1
0°-90°	10622.7	87.5
0°-180°	12140.3	100.0



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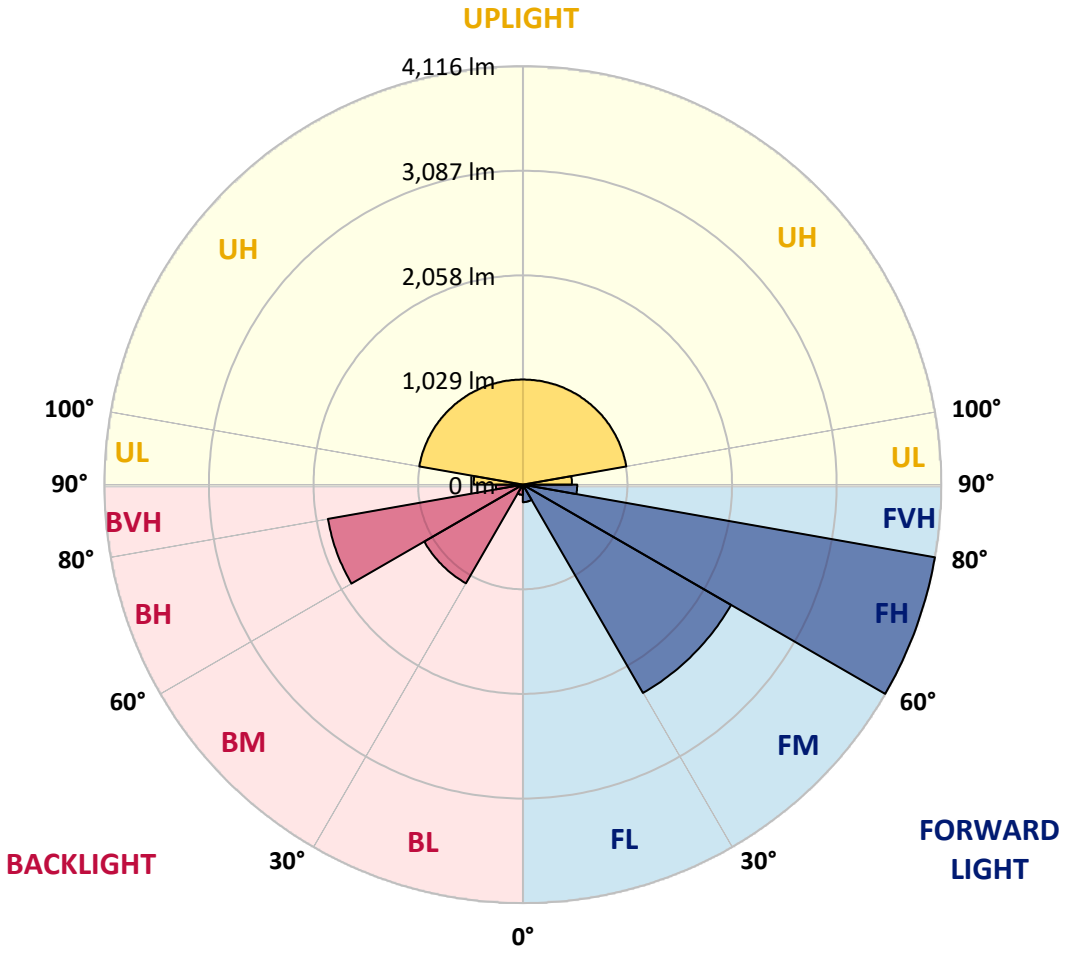
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	172.7	1.4			
FM	(30°-60°)	2365.6	19.5			
FH	(60°-80°)	4115.7	33.9			G2/5000
FVH	(80°-90°)	535.1	4.4			G4/750
BL	(0°-30°)	101.0	0.8	B0/110		
BM	(30°-60°)	1120.2	9.2	B2/2500		
BH	(60°-80°)	1946.4	16.0	B3/2500		G3/2500
BVH	(80°-90°)	265.8	2.2			G3/500
UL	(90°-100°)	483.8	4.0		U3/500	
UH	(100°-180°)	1033.9	8.5		U5	

BUG Rating: B3-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6
2.5°	220.7	220.7	252.6	258.2	288.4	298.0	281.3	268.5	299.6	363.3	373.7
5°	239.8	244.6	243.8	243.0	244.6	273.3	302.8	289.2	237.4	188.8	188.8
7.5°	271.7	273.3	272.5	271.7	261.3	244.6	237.4	259.0	272.5	231.9	194.4
10°	294.0	292.4	291.6	290.8	292.4	298.8	296.4	270.1	243.8	230.3	222.3
12.5°	336.2	337.0	334.6	333.1	331.5	329.1	326.7	332.3	317.9	278.9	252.6
15°	368.1	368.1	374.5	372.9	372.9	364.9	353.8	337.8	318.7	308.4	285.2
17.5°	401.6	402.4	401.6	401.6	398.4	388.0	376.1	361.7	341.8	324.3	304.4
20°	434.2	434.2	433.4	432.7	431.9	423.9	408.7	389.6	371.3	354.6	333.9
22.5°	468.5	470.9	472.5	470.9	468.5	460.5	443.8	425.5	408.0	384.0	361.7
25°	517.1	517.9	516.3	514.7	511.5	501.2	488.4	469.3	447.8	422.3	392.8
27.5°	563.3	564.9	564.1	564.1	557.7	549.0	536.2	510.7	486.8	457.4	427.1
30°	615.9	614.3	610.3	611.1	607.1	600.0	585.6	563.3	533.0	498.0	464.5
32.5°	667.7	667.7	662.1	659.7	659.7	650.2	634.2	611.1	582.4	545.0	512.3
35°	724.3	738.6	753.0	758.5	758.5	745.0	725.9	695.6	670.9	631.8	591.2
37.5°	996.0	987.2	952.2	956.1	944.2	938.6	925.9	900.4	866.1	806.3	744.2
40°	1091.6	1090.0	1063.7	1060.5	1054.9	1036.6	1023.1	1005.5	993.6	921.9	828.6
42.5°	1108.3	1117.1	1152.1	1160.9	1206.3	1178.4	1124.3	1025.5	1000.8	946.6	907.5
45°	1296.4	1299.5	1299.5	1301.1	1289.2	1268.5	1261.3	1198.4	1149.0	1070.9	997.6
47.5°	1483.6	1490.8	1462.9	1485.2	1516.3	1474.0	1454.9	1403.1	1335.4	1274.8	1154.5
50°	1918.6	1946.5	1952.1	1952.9	1966.4	1963.3	1934.6	1862.9	1795.1	1656.5	1522.6
52.5°	2724.2	2751.3	2763.2	2734.5	2692.3	2673.2	2680.4	2650.9	2493.9	2344.9	2073.2
55°	3775.9	3822.9	3822.9	3853.2	3840.5	3749.6	3744.1	3551.2	3297.9	3132.1	2895.5
57.5°	5183.0	5112.1	5152.0	5195.0	5107.3	5011.7	4869.1	4667.5	4297.0	4011.0	3668.4
60°	6226.0	6197.3	6118.5	6069.9	5850.7	5661.1	5548.8	5401.4	5120.1	4744.0	4285.9
62.5°	6417.3	6438.0	6432.4	6432.4	6257.1	6030.0	5802.9	5587.0	5412.5	5025.3	4662.7
63°	6405.3	6430.8	6441.2	6438.0	6280.2	6056.3	5830.8	5592.6	5430.8	5035.6	4685.1
65°	6303.3	6324.8	6306.5	6300.1	6200.5	6049.1	5795.8	5559.9	5412.5	4989.4	4688.2
67.5°	5893.8	5889.0	5820.5	5851.5	5788.6	5704.1	5467.5	5234.8	5132.8	4670.7	4393.4
70°	4760.0	4726.5	4801.4	4846.0	4777.5	4744.0	4462.8	4309.8	4178.3	3826.9	3603.0
72.5°	3638.9	3569.6	3582.3	3623.0	3536.9	3513.8	3393.5	3267.6	3204.6	2985.5	2736.9
75°	2853.3	2815.8	2746.5	2757.7	2686.7	2663.6	2650.9	2614.2	2589.5	2407.1	2160.9
77.5°	2133.8	2132.2	2074.0	2065.2	2014.3	2052.5	2037.4	2092.3	2080.4	1935.4	1748.1
80°	1493.2	1484.4	1499.5	1494.0	1482.0	1504.3	1480.4	1510.7	1510.7	1415.9	1337.0
82.5°	974.5	992.0	1039.8	1051.0	1068.5	1121.1	1036.6	992.0	980.0	969.7	931.4
85°	967.3	972.1	951.4	953.7	945.8	925.9	941.0	948.2	936.2	878.8	794.4
87.5°	911.5	917.9	901.2	905.9	876.5	882.8	892.4	898.0	892.4	841.4	771.3
90°	768.1	775.3	790.4	790.4	792.8	794.4	779.2	788.0	782.4	733.8	682.8
92.5°	681.2	687.6	688.4	689.2	682.8	703.6	678.9	663.7	659.7	620.7	584.0
95°	623.1	615.9	614.3	615.9	612.7	611.9	596.0	584.8	580.1	549.0	513.1
97.5°	487.6	491.6	490.0	494.0	486.0	485.2	471.7	457.4	452.6	427.1	403.2
100°	427.9	427.1	428.7	429.5	424.7	419.1	409.5	399.2	393.6	374.5	351.4
102.5°	401.6	400.8	404.0	404.8	400.8	396.8	388.8	382.5	377.7	360.1	334.6
105°	384.8	382.5	386.4	386.4	377.7	375.3	369.7	368.9	365.7	345.0	320.3
107.5°	361.7	357.8	362.5	361.7	358.6	356.2	351.4	348.2	345.8	328.3	300.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	340.2	334.6	*337.0*	338.6	341.0	339.4	335.4	329.1	322.7	308.4	285.2
112.5°	300.4	303.6	*302.8*	302.8	305.2	306.0	298.8	294.8	290.8	279.7	264.5
115°	285.2	285.2	*285.2*	285.2	278.9	276.5	269.3	264.5	263.7	250.2	240.6
117.5°	273.3	274.9	*278.9*	281.3	289.2	284.4	268.5	258.2	254.2	248.6	238.2
120°	321.9	316.3	*310.7*	309.9	310.7	307.6	304.4	297.2	287.6	272.5	243.8
122.5°	345.0	330.7	*333.1*	332.3	326.7	329.1	329.9	330.7	324.3	300.4	255.8
125°	289.2	285.2	*287.6*	290.0	290.8	290.0	288.4	295.6	286.8	278.9	245.4
127.5°	231.1	229.5	*224.7*	223.9	222.3	223.1	223.1	225.5	217.5	209.6	208.0
130°	219.9	216.7	*217.5*	218.3	217.5	212.7	209.6	205.6	204.8	196.8	185.6
132.5°	199.2	200.8	*214.3*	215.9	225.5	219.9	203.2	192.0	193.6	197.6	193.6
135°	186.4	185.6	*196.0*	196.8	211.1	207.2	193.6	180.9	180.9	190.4	186.4
137.5°	190.4	192.0	*192.8*	193.6	192.8	192.0	191.2	185.6	181.7	180.9	171.3
140°	204.8	204.0	*196.0*	196.8	196.0	196.0	200.8	204.8	191.2	179.3	163.3
142.5°	214.3	216.7	*213.5*	217.5	224.7	218.3	210.3	200.0	192.0	184.1	174.5
145°	290.8	285.2	*282.9*	281.3	276.5	262.9	255.0	244.6	235.0	222.3	206.4
147.5°	263.7	265.3	*260.5*	262.1	255.8	251.0	249.4	250.2	247.0	239.8	223.1
150°	209.6	211.1	*206.4*	204.0	201.6	201.6	201.6	203.2	199.2	194.4	186.4
152.5°	146.6	145.0	*143.4*	142.6	141.0	139.4	139.4	140.2	136.2	134.7	128.3
155°	134.7	133.9	*127.5*	125.9	127.5	129.1	129.9	127.5	124.3	121.1	112.3
157.5°	105.2	102.8	*102.0*	103.6	103.6	102.8	101.2	102.8	99.6	98.8	97.2
160°	86.1	85.3	*86.1*	86.1	86.8	86.8	86.1	86.1	84.5	85.3	85.3
162.5°	73.3	73.3	*73.3*	72.5	74.1	74.9	74.1	74.1	74.9	77.3	78.9
165°	62.9	62.9	*63.7*	63.7	64.5	64.5	65.3	66.1	67.7	73.3	78.1
167.5°	59.0	59.0	*59.8*	59.8	60.6	61.4	62.9	66.1	70.9	77.3	79.7
170°	58.2	58.2	*58.2*	58.2	59.0	59.8	62.9	67.7	73.3	77.3	74.9
172.5°	60.6	60.6	*61.4*	61.4	61.4	64.5	66.9	70.9	74.1	74.9	72.5
175°	62.9	62.1	*62.9*	62.9	63.7	66.1	69.3	70.9	72.5	73.3	74.1
177.5°	61.4	61.4	*61.4*	62.1	62.1	62.9	64.5	65.3	66.9	68.5	70.9
180°	59.8	59.8	*59.8*	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6
2.5°	373.7	363.3	282.9	242.2	276.5	343.4	349.8	302.8	235.0	163.3	149.0
5°	199.2	210.3	235.0	234.3	218.3	204.0	186.4	175.3	193.6	185.6	190.4
7.5°	180.1	169.7	173.7	203.2	198.4	150.6	136.2	133.1	149.0	185.6	181.7
10°	219.1	215.9	204.0	180.1	172.1	178.5	184.1	180.1	165.7	144.2	141.0
12.5°	247.8	243.8	245.4	260.5	242.2	200.8	177.7	170.5	178.5	210.3	216.7
15°	275.7	268.5	258.2	236.6	219.1	208.0	194.4	180.1	184.9	176.1	172.9
17.5°	294.8	283.7	262.1	246.2	228.7	214.3	202.4	187.2	176.9	174.5	175.3
20°	320.3	308.4	285.2	266.9	245.4	226.3	205.6	189.6	179.3	175.3	175.3
22.5°	349.8	335.4	309.2	283.7	259.7	235.0	210.3	192.8	183.3	179.3	177.7
25°	380.9	366.5	333.9	306.8	276.5	249.4	223.9	201.6	191.2	186.4	182.5
27.5°	412.7	395.2	362.5	329.1	296.4	264.5	237.4	214.3	200.0	192.0	192.8
30°	447.8	433.4	396.8	358.6	317.9	280.5	254.2	227.9	210.3	201.6	202.4
32.5°	494.8	471.7	427.9	384.0	344.2	302.8	269.3	239.0	219.9	214.3	215.1
35°	572.9	543.4	490.0	430.3	376.9	328.3	286.0	250.2	227.9	219.1	218.3
37.5°	713.9	674.1	612.7	542.6	465.3	386.4	317.9	262.9	235.0	220.7	218.3
40°	782.4	728.3	651.0	590.4	537.8	470.1	392.0	309.2	247.0	228.7	226.3
42.5°	874.1	828.6	728.3	610.3	540.2	483.6	428.7	375.3	298.0	250.2	241.4
45°	962.5	921.9	843.0	727.5	623.1	534.6	452.6	394.4	346.6	298.0	294.0
47.5°	1111.5	1068.5	937.0	834.2	724.3	623.9	537.8	442.2	380.1	345.8	345.8
50°	1485.2	1406.3	1276.4	1118.7	941.8	779.2	657.3	540.2	465.3	413.5	411.1
52.5°	2007.1	1895.5	1704.3	1529.8	1321.1	1133.0	943.4	739.4	630.3	555.4	554.6
55°	2760.8	2646.9	2391.1	2055.7	1799.9	1575.2	1378.4	1154.5	982.4	861.3	851.8
57.5°	3564.8	3469.2	3208.6	2791.9	2388.7	1991.1	1752.9	1574.4	1491.6	1407.1	1389.6
60°	4085.9	3921.7	3684.3	3286.7	2896.3	2389.5	2093.9	1889.2	1861.3	1842.9	1819.8
62.5°	4414.2	4220.5	3867.6	3391.1	3032.5	2552.9	2288.3	2070.0	2004.7	1906.7	1878.8
63°	*4451.6*	*4241.3*	*3897.0*	*3388.7*	*3036.5*	*2555.3*	*2302.7*	*2070.0*	*1993.5*	*1875.6*	*1857.3*
65°	4434.1	4238.9	3895.4	3339.3	2944.1	2508.3	2261.3	1975.2	1853.3	1697.1	1666.1
67.5°	4166.4	3958.4	3634.9	3088.3	2731.4	2286.8	2015.1	1711.5	1526.6	1373.6	1337.8
70°	3391.9	3262.8	2978.4	2505.9	2235.0	1888.4	1650.1	1411.9	1211.9	1051.0	1010.3
72.5°	2584.7	2449.3	2235.8	1929.0	1729.0	1490.8	1265.3	1082.0	917.1	810.3	813.5
75°	2050.9	1921.8	1745.7	1544.2	1380.8	1168.9	945.8	764.1	647.0	583.2	577.7
77.5°	1651.7	1562.5	1408.7	1223.1	1082.0	860.5	662.1	503.6	416.7	380.1	369.7
80°	1273.3	1211.1	1096.4	933.0	786.4	604.8	451.0	356.2	309.9	278.9	273.3
82.5°	905.9	868.5	772.9	658.9	559.3	464.5	395.2	333.1	285.2	259.0	251.0
85°	756.1	721.1	660.5	589.6	525.9	456.6	383.3	317.1	272.5	251.8	241.4
87.5°	733.8	701.2	643.0	567.3	498.0	423.1	349.0	286.8	255.0	235.0	228.7
90°	657.3	632.6	581.6	512.3	443.0	366.5	302.0	258.2	233.5	217.5	210.3
92.5°	566.5	545.0	502.8	444.6	386.4	331.5	282.1	245.4	220.7	204.8	199.2
95°	492.4	478.9	443.8	394.4	352.2	306.8	264.5	229.5	204.0	189.6	184.1
97.5°	392.8	376.9	351.4	317.1	285.2	253.4	222.3	198.4	180.1	170.5	165.7
100°	341.8	331.5	308.4	281.3	254.2	226.3	202.4	184.1	172.1	164.1	160.2
102.5°	321.9	314.7	293.2	266.1	240.6	213.5	189.6	172.9	164.1	157.0	153.8
105°	303.6	298.0	281.3	256.6	231.9	202.4	175.3	160.9	153.0	148.2	145.8
107.5°	284.4	278.1	262.1	238.2	216.7	191.2	167.3	149.8	139.4	133.9	133.1

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

Scaled Data Report

REPORT NUMBER: P1046427
CATALOG NUMBER: FFX-CLB-80-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	268.5	263.7	246.2	227.1	206.4	182.5	161.7	143.4	131.5	125.1	124.3
112.5°	251.8	246.2	228.7	210.3	192.8	172.1	153.8	137.8	126.7	120.3	119.5
115°	229.5	224.7	211.9	194.4	180.1	160.2	145.0	130.7	121.9	115.5	114.7
117.5°	231.9	218.3	200.8	184.9	172.1	157.8	144.2	133.1	119.5	112.3	112.3
120°	235.0	222.3	204.8	191.2	184.1	172.9	152.2	136.2	117.9	110.8	110.0
122.5°	231.9	233.5	223.9	210.3	196.0	176.9	151.4	133.9	115.5	110.0	110.8
125°	224.7	231.9	218.3	200.0	180.9	162.5	141.0	125.1	113.9	110.0	109.2
127.5°	203.2	201.6	184.1	170.5	157.0	141.8	128.3	118.7	110.8	106.0	103.6
130°	179.3	178.5	171.3	160.2	146.6	133.1	121.1	114.7	106.8	100.4	98.8
132.5°	188.8	186.4	171.3	153.0	137.8	126.7	118.7	111.5	100.4	93.2	92.4
135°	178.5	176.9	161.7	143.4	129.9	124.3	118.7	108.4	94.8	89.2	88.4
137.5°	163.3	157.0	144.2	133.1	126.7	125.1	117.9	106.0	93.2	86.8	86.1
140°	155.4	150.6	141.0	133.9	126.7	117.9	107.6	96.4	87.6	82.9	82.1
142.5°	164.9	163.3	149.0	136.2	125.1	114.7	103.6	96.4	86.8	80.5	79.7
145°	195.2	187.2	169.7	152.2	142.6	129.1	114.7	99.6	82.1	72.5	70.1
147.5°	213.5	206.4	188.8	169.7	149.0	127.5	105.2	86.1	72.5	65.3	63.7
150°	176.9	173.7	162.5	145.0	127.5	107.6	89.2	75.7	66.9	62.1	62.1
152.5°	124.3	123.5	118.7	108.4	97.2	86.1	76.5	68.5	63.7	60.6	60.6
155°	110.0	108.4	105.2	95.6	87.6	78.1	70.9	66.1	62.9	60.6	60.6
157.5°	94.8	93.2	92.4	85.3	78.9	72.5	66.9	62.9	60.6	59.0	58.2
160°	84.5	82.1	79.7	75.7	71.7	68.5	66.1	62.9	60.6	59.0	59.0
162.5°	78.9	77.3	73.3	70.1	68.5	68.5	69.3	67.7	62.9	60.6	59.8
165°	78.9	76.5	70.9	67.7	67.7	71.7	75.7	72.5	68.5	63.7	62.9
167.5°	79.7	78.1	72.5	70.1	72.5	77.3	81.3	80.5	74.9	70.9	70.9
170°	74.1	73.3	74.1	76.5	78.9	79.7	81.3	80.5	82.1	87.6	87.6
172.5°	71.7	72.5	76.5	80.5	85.3	85.3	81.3	80.5	87.6	95.6	97.2
175°	74.9	76.5	80.5	85.3	89.2	89.2	85.3	86.1	93.2	100.4	102.0
177.5°	71.7	72.5	74.1	73.3	74.9	70.9	72.5	70.9	73.3	73.3	73.3
180°	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8

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: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

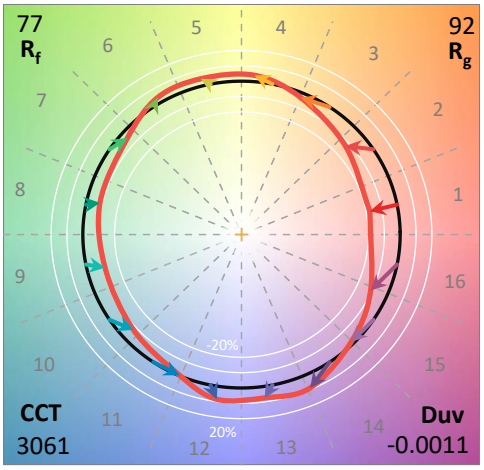
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-4
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-100-730-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3061
CIE u':	0.2489
CIE v':	0.5187
Duv:	-0.0011
CIE x:	0.4312
CIE y:	0.3995
CIE z:	0.1693
Peak Wavelength (nm):	592
Dominant Wavelength (nm):	582
Purity:	49.32381
Rf:	76.8
Rg:	92.2

CRI (Ra):	71.7
R1:	67.8
R2:	85.0
R3:	92.9
R4:	66.0
R5:	68.5
R6:	80.2
R7:	74.5
R8:	39.0
R9:	-40.3
R10:	67.2
R11:	61.6
R12:	59.9
R13:	71.4
R14:	96.3
R15:	58.8



Test Conditions

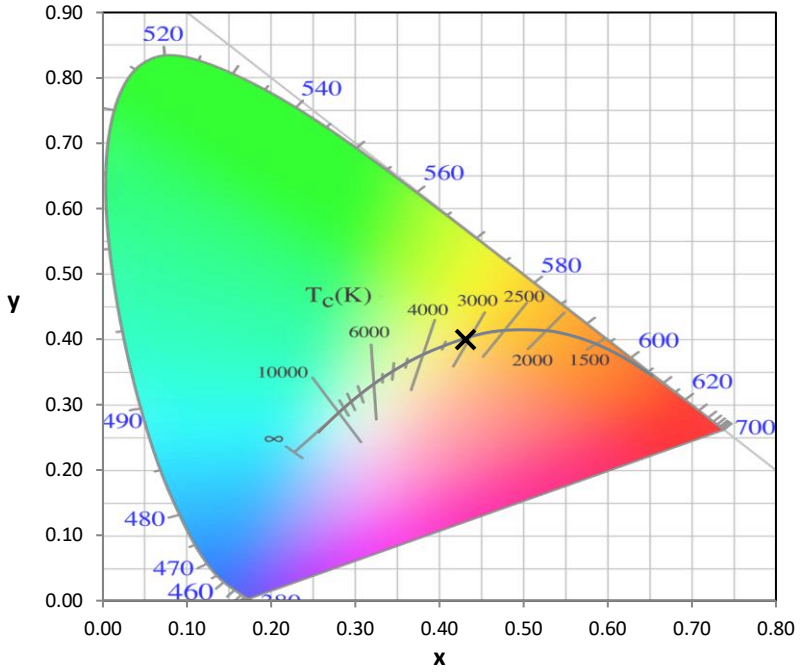
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

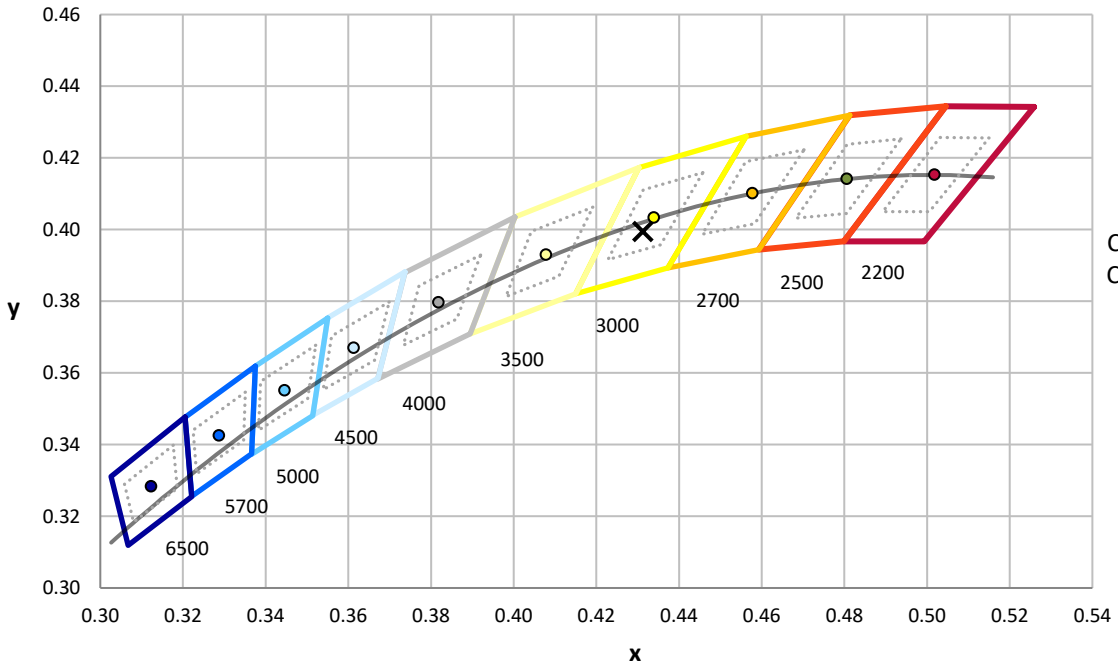
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



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

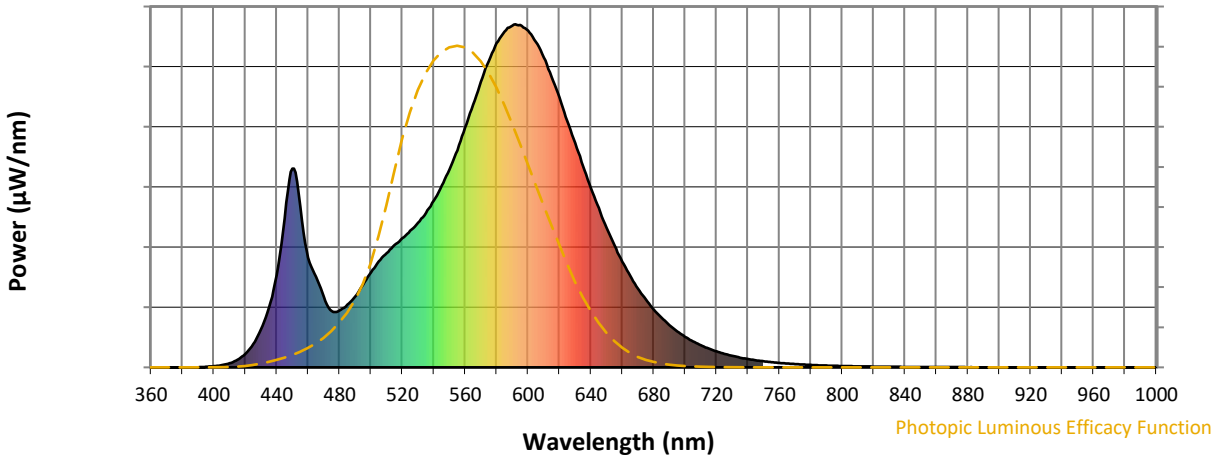


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

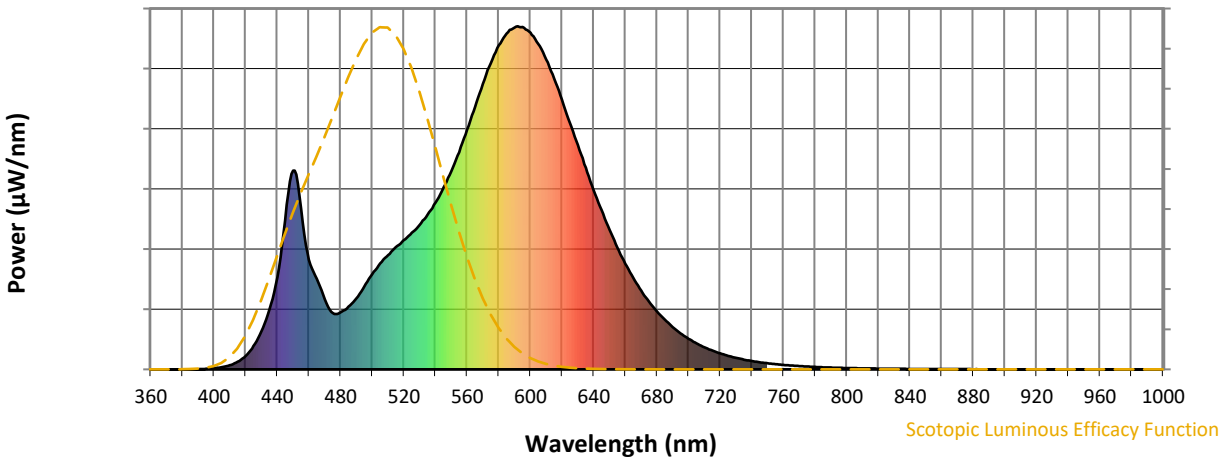


Photopic Lumens: NR

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

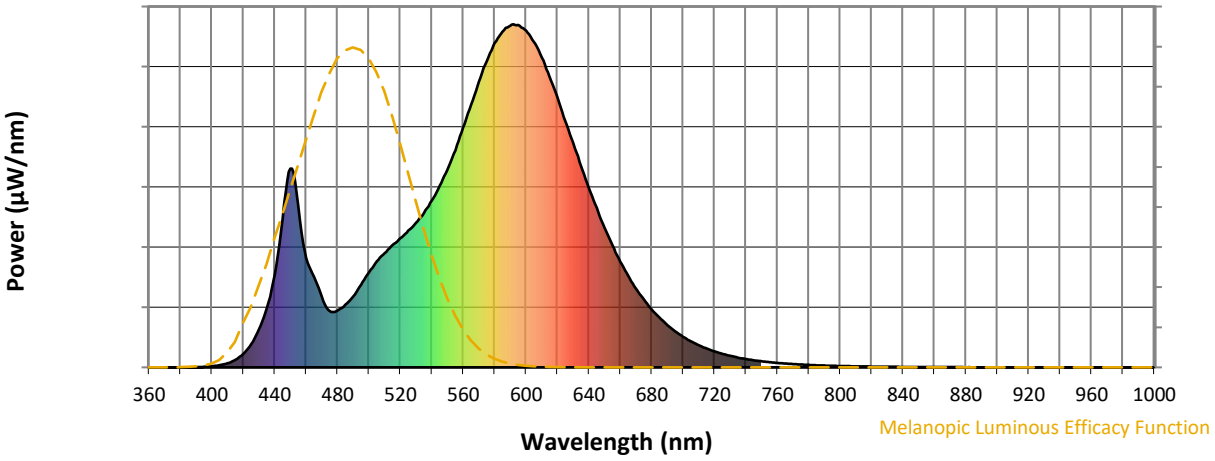


Scotopic Lumens: NR **S/P: 1.29**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

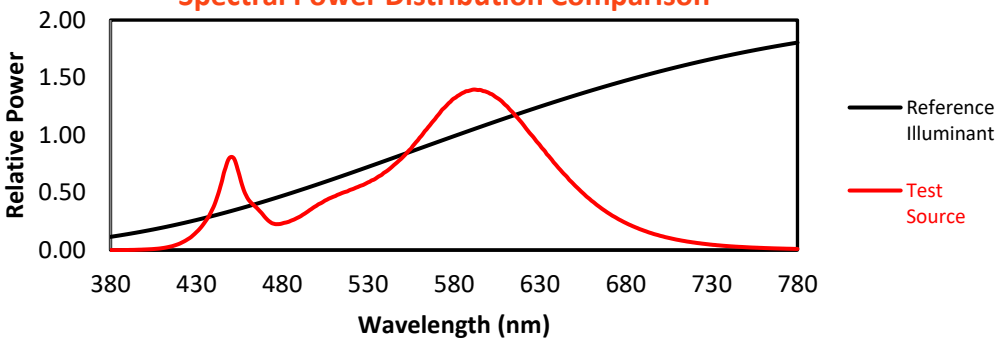
REPORT NUMBER: SP1-2501-332-4

TM-30-18

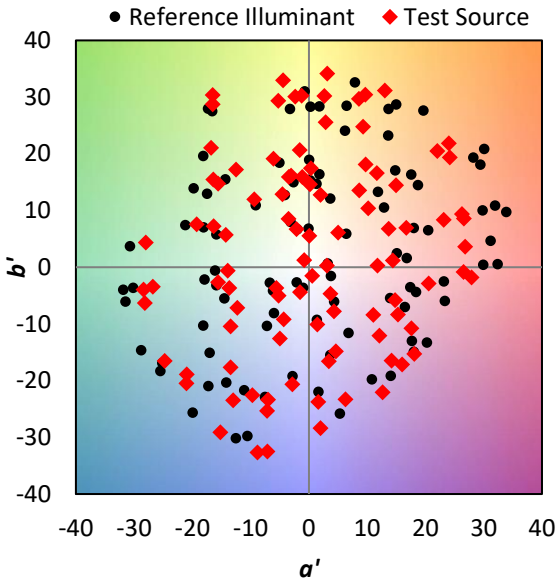
Summary

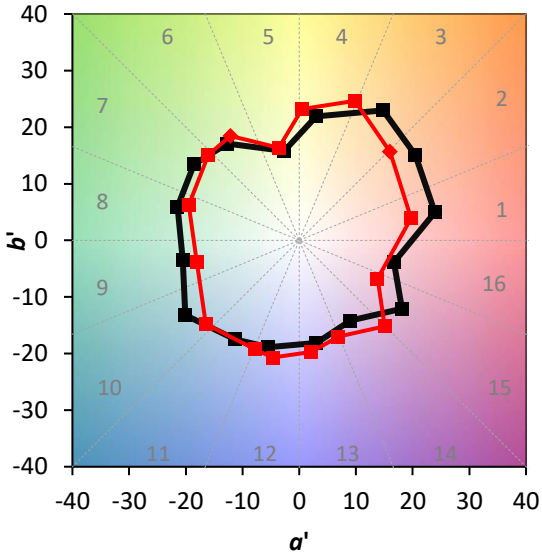
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

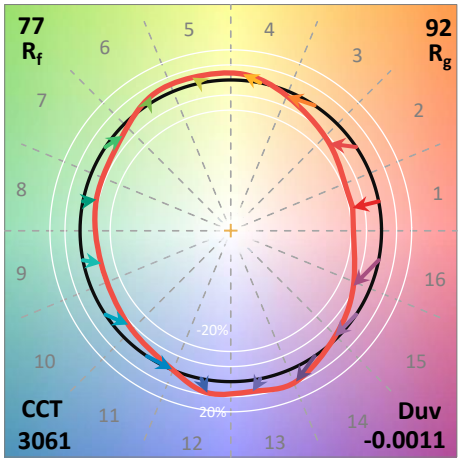
Spectral Power Distribution Comparison

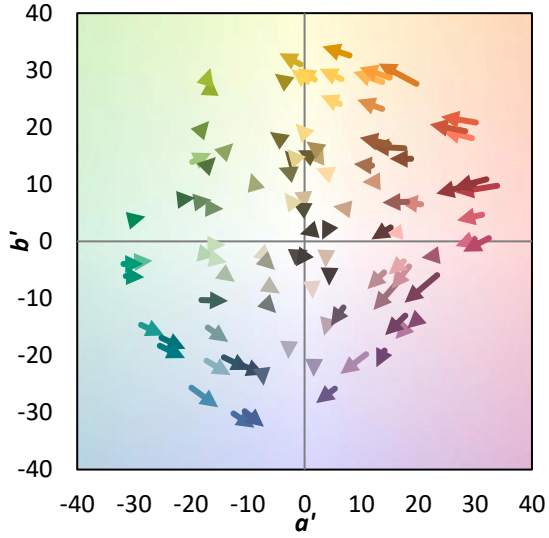


Color Vector Graphics







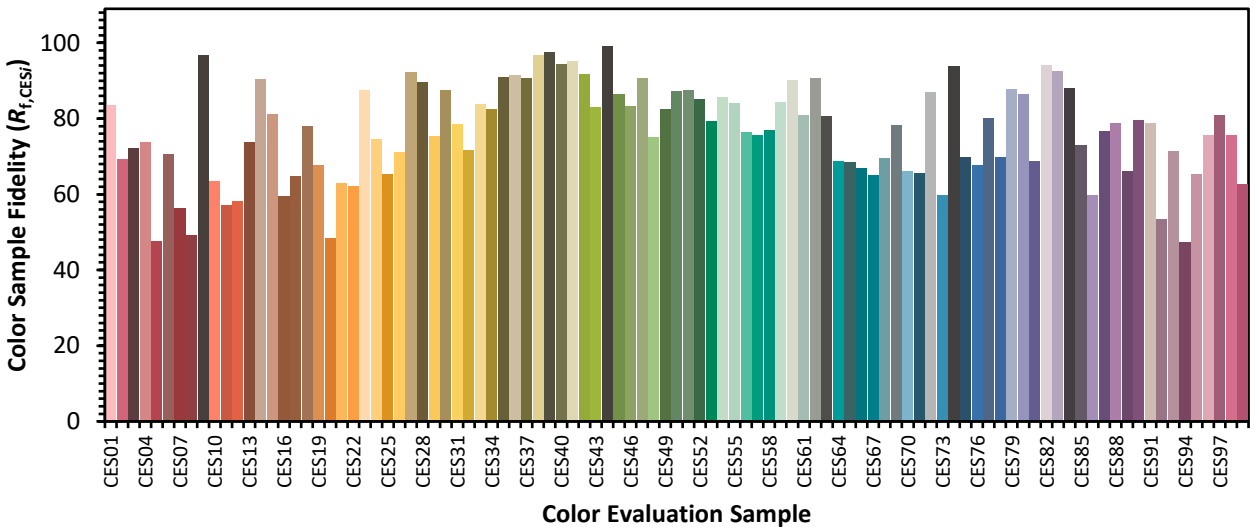


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

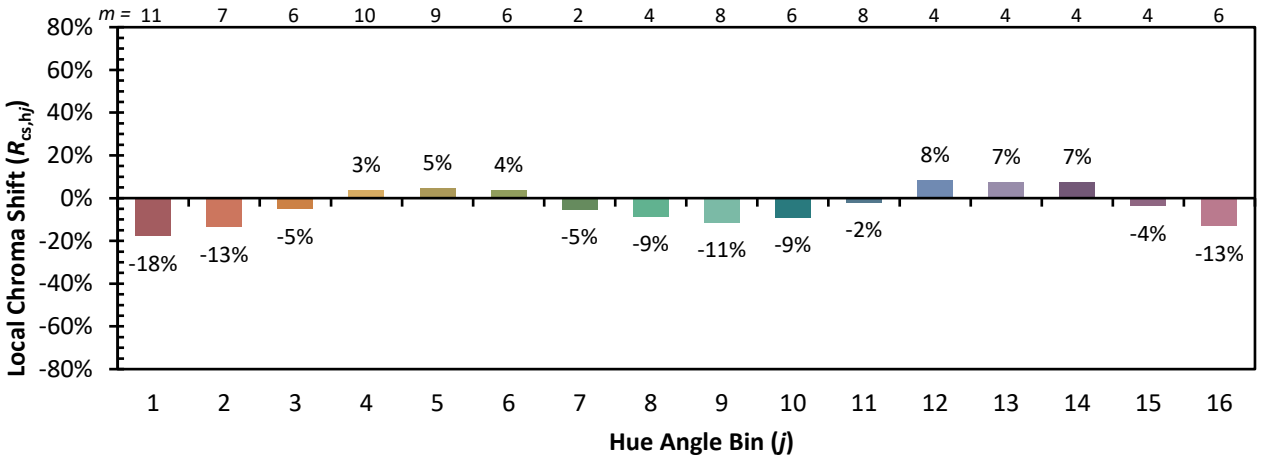
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 83	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 73
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 91	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 97	CES63 = 81	CES88 = 79
CES14 = 74	CES39 = 98	CES64 = 69	CES89 = 66
CES15 = 71	CES40 = 94	CES65 = 69	CES90 = 80
CES16 = 47	CES41 = 95	CES66 = 67	CES91 = 79
CES17 = 50	CES42 = 92	CES67 = 65	CES92 = 53
CES18 = 56	CES43 = 83	CES68 = 70	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 66	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 60	CES98 = 76
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 63
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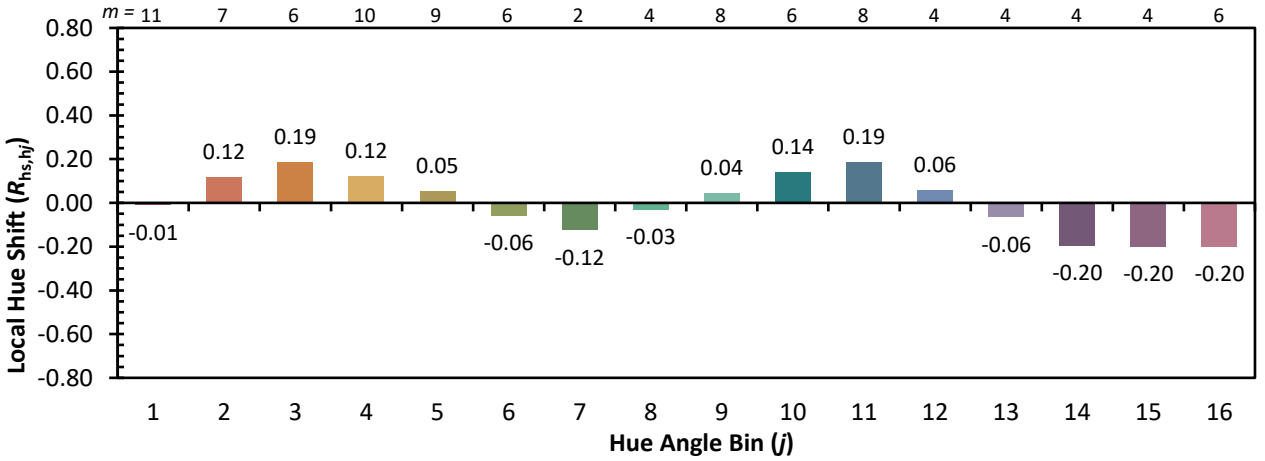


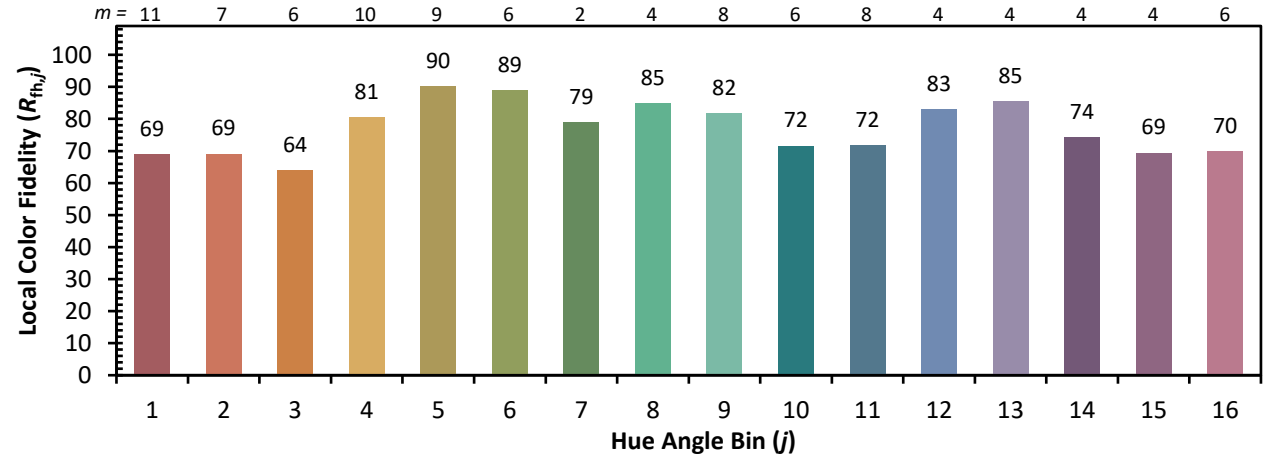
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Color Rendition by Hue-Angle Bin



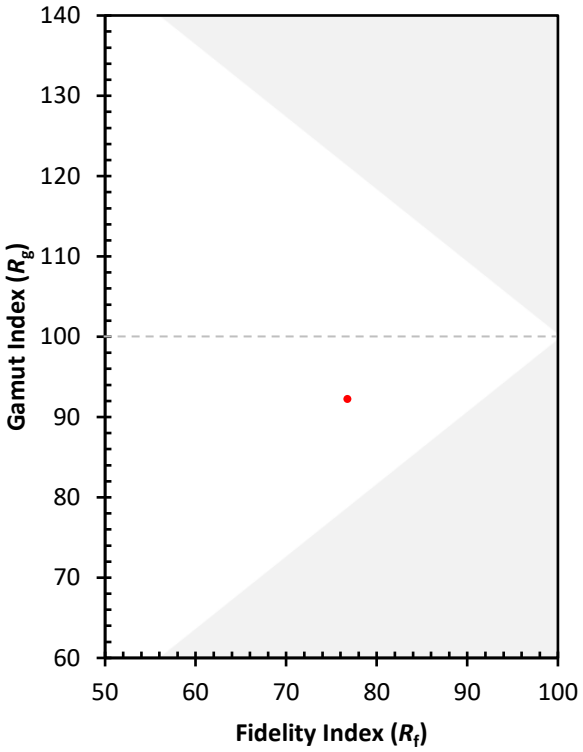


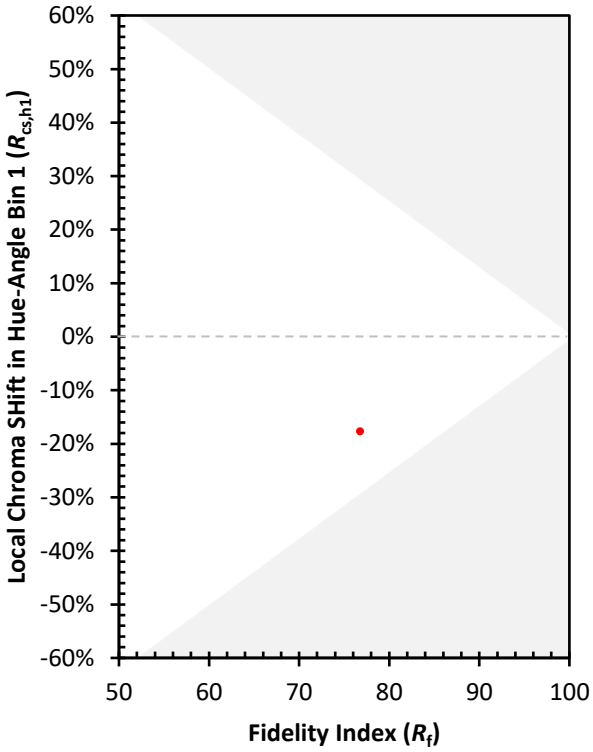


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Measure Comparisons





(END OF REPORT)