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: P1046428

Luminaire Tested: **FFX-CLB-70-730-U-FR-T4-UPLR**

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:	P1046428
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-730-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:	10675.4 lumens
Efficiency:	N/A
Efficacy:	149.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U4 - G3

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

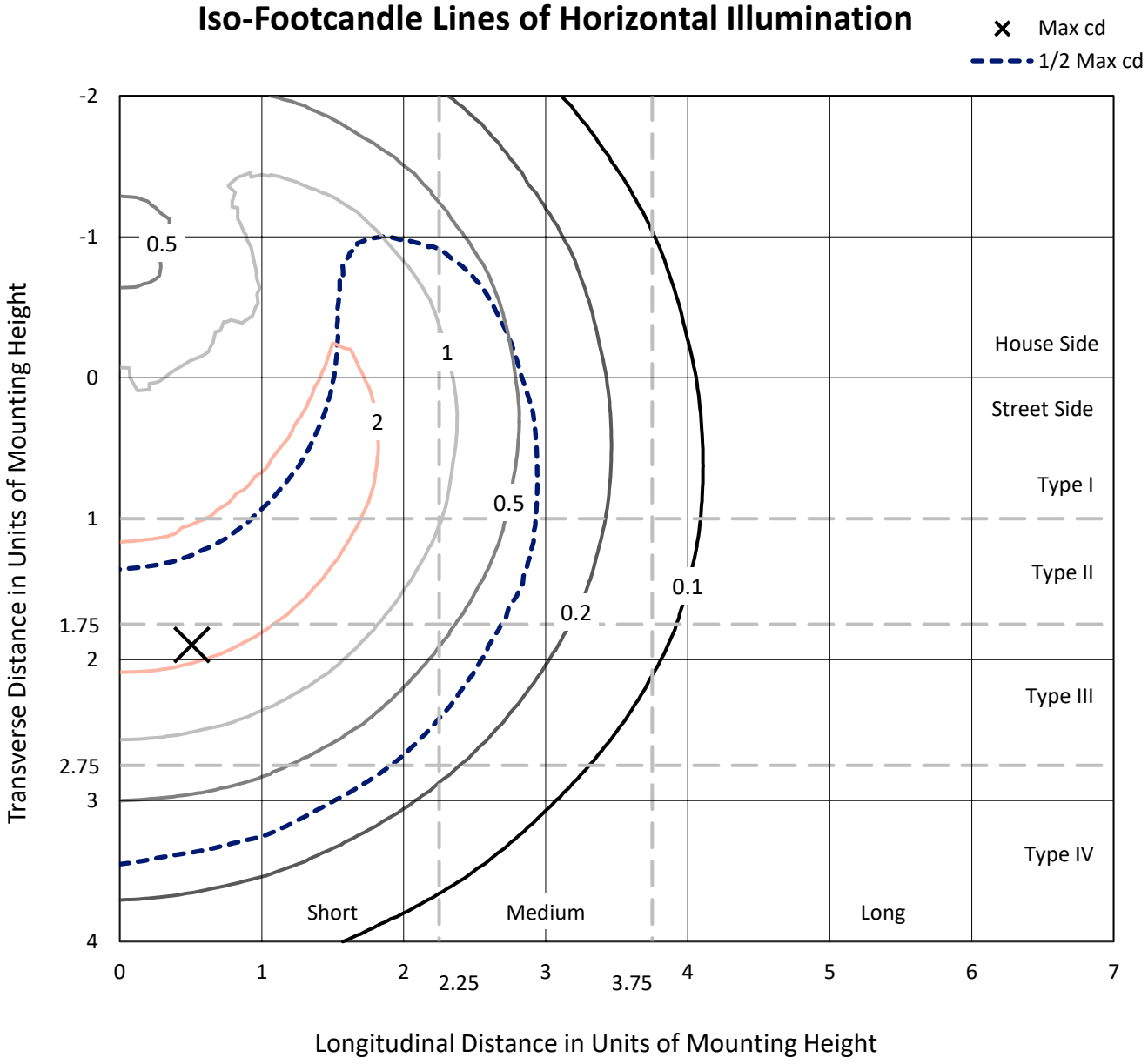


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Iso-Footcandle Lines of Horizontal Illumination



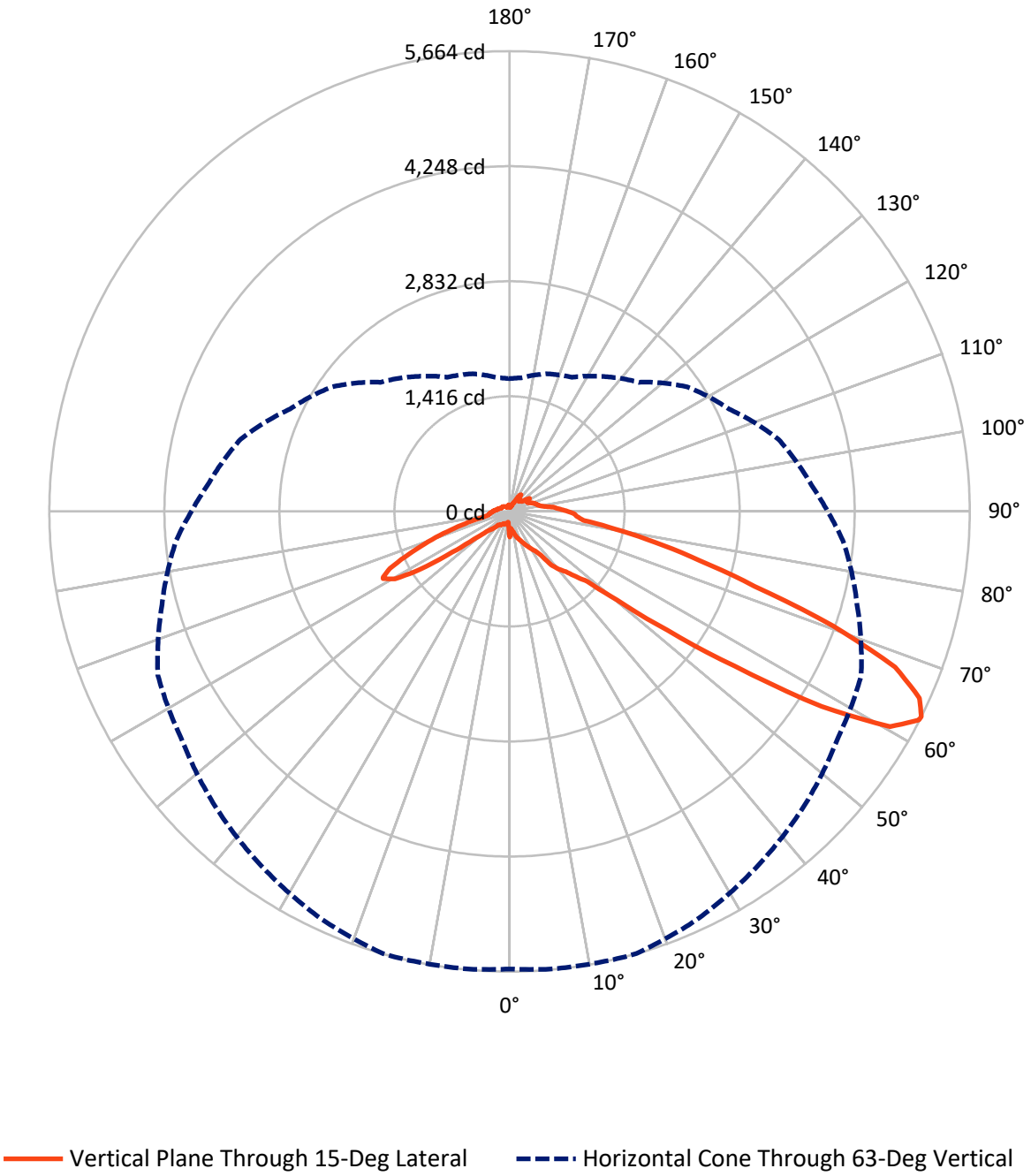
Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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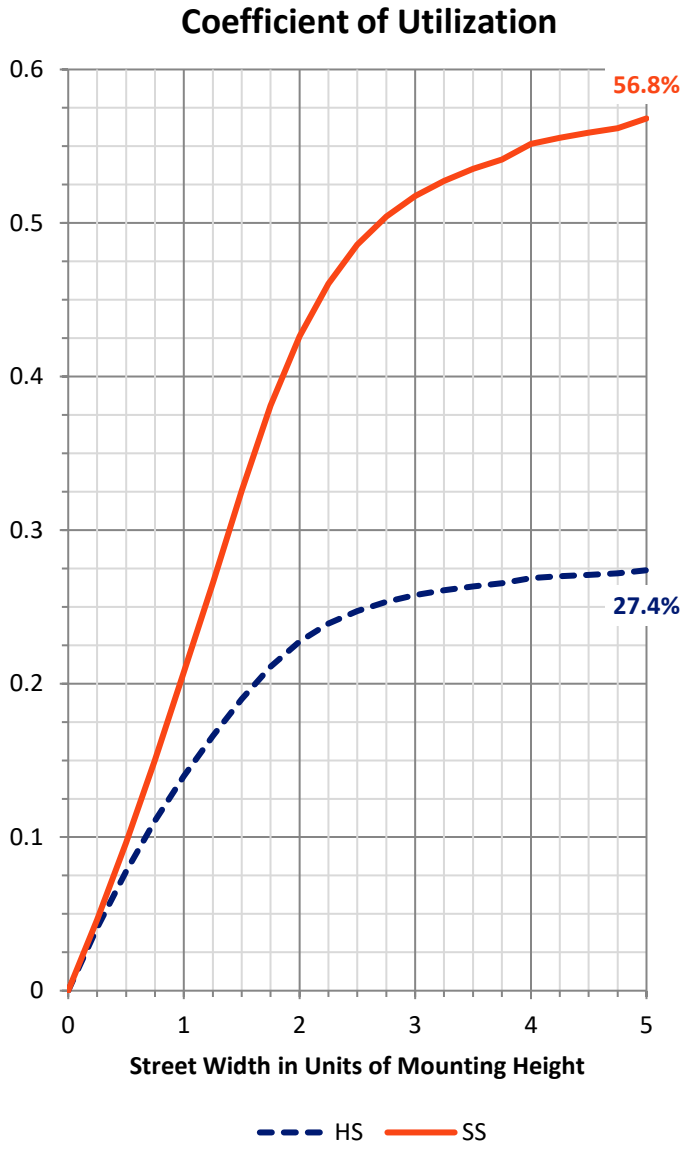
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3019.1	491.9	3511.1
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	6321.7	842.6	7164.3
	% Fixture	59.2	7.9	67.1
Total	Lumens	9340.8	1334.5	10675.4
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.4	0.2
10°-20°	69.9	0.7
20°-30°	151.4	1.4
30°-40°	311.3	2.9
40°-50°	642.0	6.0
50°-60°	2111.9	19.8
60°-70°	3496.6	32.8
70°-80°	1834.0	17.2
80°-90°	704.2	6.6
90°-100°	425.4	4.0
100°-110°	268.0	2.5
110°-120°	198.4	1.9
120°-130°	168.9	1.6
130°-140°	110.2	1.0
140°-150°	95.8	0.9
150°-160°	43.8	0.4
160°-170°	17.9	0.2
170°-180°	6.2	0.1
0°-90°	9340.8	87.5
0°-180°	10675.4	100.0



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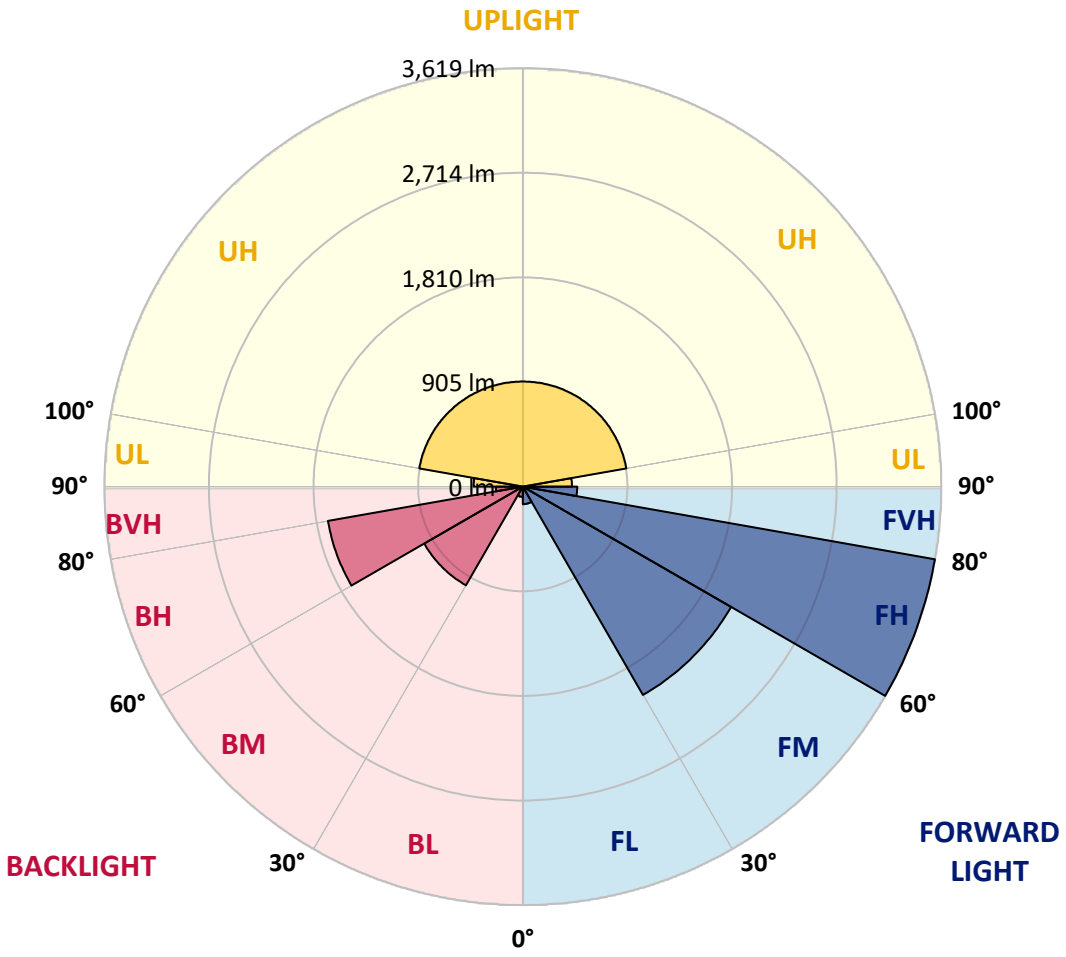
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	151.9	1.4			
FM	(30°-60°)	2080.2	19.5			
FH	(60°-80°)	3619.1	33.9			G2/5000
FVH	(80°-90°)	470.5	4.4			G3/500
BL	(0°-30°)	88.8	0.8	B0/110		
BM	(30°-60°)	985.1	9.2	B1/1000		
BH	(60°-80°)	1711.5	16.0	B3/2500		G3/2500
BVH	(80°-90°)	233.7	2.2			G3/500
UL	(90°-100°)	425.4	4.0		U3/500	
UH	(100°-180°)	909.2	8.5		U4/1000	

BUG Rating: B3-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3
2.5°	194.1	194.1	222.1	227.0	253.6	262.0	247.3	236.1	263.4	319.5	328.6
5°	210.9	215.1	214.4	213.7	215.1	240.3	266.2	254.3	208.8	166.0	166.0
7.5°	238.9	240.3	239.6	238.9	229.8	215.1	208.8	227.7	239.6	203.9	171.0
10°	258.5	257.1	256.4	255.7	257.1	262.7	260.6	237.5	214.4	202.5	195.5
12.5°	295.7	296.4	294.3	292.9	291.5	289.4	287.3	292.2	279.6	245.2	222.1
15°	323.7	323.7	329.3	327.9	327.9	320.9	311.1	297.1	280.3	271.1	250.8
17.5°	353.1	353.8	353.1	353.1	350.3	341.2	330.7	318.1	300.6	285.2	267.6
20°	381.8	381.8	381.1	380.4	379.7	372.7	359.4	342.6	326.5	311.8	293.6
22.5°	412.0	414.1	415.5	414.1	412.0	405.0	390.3	374.1	358.7	337.7	318.1
25°	454.7	455.4	454.0	452.6	449.8	440.7	429.5	412.7	393.8	371.3	345.4
27.5°	495.3	496.7	496.0	496.0	490.4	482.7	471.5	449.1	428.1	402.2	375.5
30°	541.6	540.2	536.7	537.4	533.9	527.6	515.0	495.3	468.7	437.9	408.5
32.5°	587.1	587.1	582.2	580.1	580.1	571.7	557.7	537.4	512.2	479.2	450.5
35°	636.9	649.5	662.1	667.0	667.0	655.1	638.3	611.6	589.9	555.6	519.9
37.5°	875.8	868.1	837.3	840.8	830.2	825.3	814.1	791.7	761.6	709.0	654.4
40°	959.9	958.5	935.3	932.5	927.6	911.5	899.6	884.2	873.7	810.6	728.7
42.5°	974.6	982.3	1013.1	1020.8	1060.8	1036.2	988.6	901.7	880.0	832.3	798.0
45°	1139.9	1142.7	1142.7	1144.1	1133.6	1115.4	1109.1	1053.7	1010.3	941.6	877.2
47.5°	1304.6	1310.9	1286.4	1306.0	1333.3	1296.2	1279.3	1233.8	1174.3	1121.0	1015.2
50°	1687.1	1711.6	1716.5	1717.2	1729.2	1726.4	1701.1	1638.1	1578.5	1456.6	1338.9
52.5°	2395.5	2419.3	2429.8	2404.6	2367.4	2350.6	2356.9	2331.0	2193.0	2062.0	1823.0
55°	3320.3	3361.6	3361.6	3388.2	3377.0	3297.2	3292.3	3122.7	2899.9	2754.2	2546.1
57.5°	4557.6	4495.2	4530.3	4568.1	4491.0	4407.0	4281.5	4104.3	3778.5	3527.0	3225.7
60°	5474.7	5449.5	5380.1	5337.4	5144.7	4978.0	4879.2	4749.6	4502.2	4171.5	3768.7
62.5°	5642.9	5661.1	5656.2	5656.2	5502.0	5302.4	5102.7	4912.8	4759.4	4418.9	4100.1
63°	5632.4	5654.8	5663.9	5661.1	5522.4	5325.5	5127.2	4917.7	4775.5	4428.0	4119.7
65°	5542.7	5561.6	5545.5	5539.9	5452.3	5319.2	5096.4	4889.0	4759.4	4387.3	4122.5
67.5°	5182.6	5178.4	5118.1	5145.4	5090.1	5015.8	4807.7	4603.1	4513.5	4107.1	3863.3
70°	4185.6	4156.1	4222.0	4261.2	4201.0	4171.5	3924.2	3789.7	3674.1	3365.1	3168.2
72.5°	3199.8	3138.8	3150.0	3185.8	3110.1	3089.8	2984.0	2873.3	2817.9	2625.3	2406.7
75°	2509.0	2476.0	2415.1	2424.9	2362.5	2342.2	2331.0	2298.8	2277.0	2116.6	1900.1
77.5°	1876.3	1874.9	1823.7	1816.0	1771.2	1804.8	1791.5	1839.9	1829.3	1701.8	1537.2
80°	1313.0	1305.3	1318.6	1313.7	1303.2	1322.8	1301.8	1328.4	1328.4	1245.0	1175.7
82.5°	856.9	872.3	914.3	924.1	939.5	985.8	911.5	872.3	861.8	852.7	819.0
85°	850.6	854.8	836.6	838.7	831.6	814.1	827.4	833.7	823.2	772.8	698.5
87.5°	801.5	807.1	792.4	796.6	770.7	776.3	784.7	789.6	784.7	739.9	678.2
90°	675.4	681.7	695.0	695.0	697.1	698.5	685.2	692.9	688.0	645.3	600.4
92.5°	599.0	604.6	605.3	606.0	600.4	618.7	596.9	583.6	580.1	545.8	513.6
95°	547.9	541.6	540.2	541.6	538.8	538.1	524.1	514.3	510.1	482.7	451.2
97.5°	428.8	432.3	430.9	434.4	427.4	426.7	414.8	402.2	398.0	375.5	354.5
100°	376.2	375.5	376.9	377.6	373.4	368.5	360.1	351.0	346.1	329.3	309.0
102.5°	353.1	352.4	355.2	355.9	352.4	348.9	341.9	336.3	332.1	316.7	294.3
105°	338.4	336.3	339.8	339.8	332.1	330.0	325.1	324.4	321.6	303.4	281.7
107.5°	318.1	314.6	318.8	318.1	315.3	313.2	309.0	306.2	304.1	288.7	264.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	299.2	294.3	*296.4*	297.8	299.9	298.5	295.0	289.4	283.8	271.1	250.8
112.5°	264.1	266.9	*266.2*	266.2	268.3	269.0	262.7	259.2	255.7	245.9	232.6
115°	250.8	250.8	*250.8*	250.8	245.2	243.1	236.8	232.6	231.9	220.0	211.6
117.5°	240.3	241.7	*245.2*	247.3	254.3	250.1	236.1	227.0	223.5	218.6	209.5
120°	283.1	278.1	*273.2*	272.5	273.2	270.4	267.6	261.3	252.9	239.6	214.4
122.5°	303.4	290.8	*292.9*	292.2	287.3	289.4	290.1	290.8	285.2	264.1	224.9
125°	254.3	250.8	*252.9*	255.0	255.7	255.0	253.6	259.9	252.2	245.2	215.8
127.5°	203.2	201.8	*197.6*	196.9	195.5	196.2	196.2	198.3	191.3	184.3	182.9
130°	193.4	190.6	*191.3*	192.0	191.3	187.1	184.3	180.8	180.1	173.1	163.2
132.5°	175.2	176.6	*188.5*	189.9	198.3	193.4	178.7	168.9	170.3	173.8	170.3
135°	163.9	163.2	*172.4*	173.1	185.7	182.2	170.3	159.0	159.0	167.5	163.9
137.5°	167.5	168.9	*169.6*	170.3	169.6	168.9	168.2	163.2	159.7	159.0	150.6
140°	180.1	179.4	*172.4*	173.1	172.4	172.4	176.6	180.1	168.2	157.6	143.6
142.5°	188.5	190.6	*187.8*	191.3	197.6	192.0	185.0	175.9	168.9	161.8	153.4
145°	255.7	250.8	*248.7*	247.3	243.1	231.2	224.2	215.1	206.7	195.5	181.5
147.5°	231.9	233.3	*229.1*	230.5	224.9	220.7	219.3	220.0	217.2	210.9	196.2
150°	184.3	185.7	*181.5*	179.4	177.3	177.3	177.3	178.7	175.2	171.0	163.9
152.5°	128.9	127.5	*126.1*	125.4	124.0	122.6	122.6	123.3	119.8	118.4	112.8
155°	118.4	117.7	*112.1*	110.7	112.1	113.5	114.2	112.1	109.3	106.5	98.8
157.5°	92.5	90.4	*89.7*	91.1	91.1	90.4	89.0	90.4	87.6	86.9	85.5
160°	75.7	75.0	*75.7*	75.7	76.4	76.4	75.7	75.7	74.3	75.0	75.0
162.5°	64.5	64.5	*64.5*	63.8	65.2	65.9	65.2	65.2	65.9	68.0	69.4
165°	55.3	55.3	*56.1*	56.1	56.8	56.8	57.5	58.2	59.6	64.5	68.7
167.5°	51.8	51.8	*52.5*	52.5	53.2	53.9	55.3	58.2	62.4	68.0	70.1
170°	51.1	51.1	*51.1*	51.1	51.8	52.5	55.3	59.6	64.5	68.0	65.9
172.5°	53.2	53.2	*53.9*	53.9	53.9	56.8	58.9	62.4	65.2	65.9	63.8
175°	55.3	54.6	*55.3*	55.3	56.1	58.2	61.0	62.4	63.8	64.5	65.2
177.5°	53.9	53.9	*53.9*	54.6	54.6	55.3	56.8	57.5	58.9	60.3	62.4
180°	52.5	52.5	*52.5*	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3
2.5°	328.6	319.5	248.7	213.0	243.1	302.0	307.6	266.2	206.7	143.6	131.0
5°	175.2	185.0	206.7	206.0	192.0	179.4	163.9	154.1	170.3	163.2	167.5
7.5°	158.3	149.2	152.7	178.7	174.5	132.4	119.8	117.0	131.0	163.2	159.7
10°	192.7	189.9	179.4	158.3	151.3	156.9	161.8	158.3	145.7	126.8	124.0
12.5°	217.9	214.4	215.8	229.1	213.0	176.6	156.2	149.9	156.9	185.0	190.6
15°	242.4	236.1	227.0	208.1	192.7	182.9	171.0	158.3	162.5	154.8	152.0
17.5°	259.2	249.4	230.5	216.5	201.1	188.5	178.0	164.6	155.5	153.4	154.1
20°	281.7	271.1	250.8	234.7	215.8	199.0	180.8	166.7	157.6	154.1	154.1
22.5°	307.6	295.0	271.8	249.4	228.4	206.7	185.0	169.6	161.1	157.6	156.2
25°	334.9	322.3	293.6	269.7	243.1	219.3	196.9	177.3	168.2	163.9	160.4
27.5°	362.9	347.5	318.8	289.4	260.6	232.6	208.8	188.5	175.9	168.9	169.6
30°	393.8	381.1	348.9	315.3	279.6	246.6	223.5	200.4	185.0	177.3	178.0
32.5°	435.1	414.8	376.2	337.7	302.7	266.2	236.8	210.2	193.4	188.5	189.2
35°	503.8	477.8	430.9	378.3	331.4	288.7	251.5	220.0	200.4	192.7	192.0
37.5°	627.8	592.7	538.8	477.1	409.2	339.8	279.6	231.2	206.7	194.1	192.0
40°	688.0	640.4	572.4	519.2	472.9	413.4	344.7	271.8	217.2	201.1	199.0
42.5°	768.6	728.7	640.4	536.7	475.0	425.3	376.9	330.0	262.0	220.0	212.3
45°	846.4	810.6	741.3	639.7	547.9	470.1	398.0	346.8	304.8	262.0	258.5
47.5°	977.4	939.5	823.9	733.6	636.9	548.6	472.9	388.8	334.2	304.1	304.1
50°	1306.0	1236.6	1122.4	983.7	828.1	685.2	578.0	475.0	409.2	363.6	361.5
52.5°	1764.9	1666.8	1498.6	1345.2	1161.6	996.3	829.5	650.2	554.2	488.3	487.6
55°	2427.7	2327.5	2102.6	1807.6	1582.7	1385.1	1212.1	1015.2	863.9	757.4	749.0
57.5°	3134.6	3050.5	2821.4	2455.0	2100.5	1750.9	1541.4	1384.4	1311.6	1237.3	1221.9
60°	3592.8	3448.5	3239.7	2890.1	2546.8	2101.2	1841.3	1661.2	1636.7	1620.6	1600.2
62.5°	3881.5	3711.2	3400.9	2981.9	2666.6	2244.8	2012.2	1820.2	1762.8	1676.6	1652.1
63°	*3914.4*	*3729.4*	*3426.8*	*2979.8*	*2670.1*	*2246.9*	*2024.8*	*1820.2*	*1753.0*	*1649.3*	*1633.2*
65°	3899.0	3727.3	3425.4	2936.3	2588.8	2205.6	1988.4	1736.9	1629.7	1492.3	1465.0
67.5°	3663.6	3480.7	3196.3	2715.6	2401.8	2010.8	1771.9	1505.0	1342.4	1207.9	1176.4
70°	2982.6	2869.1	2619.0	2203.5	1965.3	1660.5	1451.0	1241.5	1065.7	924.1	888.4
72.5°	2272.8	2153.7	1966.0	1696.2	1520.4	1310.9	1112.6	951.5	806.4	712.5	715.3
75°	1803.4	1689.9	1535.1	1357.8	1214.2	1027.8	831.6	671.9	568.9	512.9	508.0
77.5°	1452.4	1373.9	1238.7	1075.5	951.5	756.7	582.2	442.8	366.4	334.2	325.1
80°	1119.6	1065.0	964.1	820.4	691.5	531.8	396.6	313.2	272.5	245.2	240.3
82.5°	796.6	763.7	679.6	579.4	491.8	408.5	347.5	292.9	250.8	227.7	220.7
85°	664.9	634.1	580.8	518.5	462.4	401.5	337.0	278.9	239.6	221.4	212.3
87.5°	645.3	616.6	565.4	498.8	437.9	372.0	306.9	252.2	224.2	206.7	201.1
90°	578.0	556.3	511.5	450.5	389.5	322.3	265.5	227.0	205.3	191.3	185.0
92.5°	498.1	479.2	442.1	391.0	339.8	291.5	248.0	215.8	194.1	180.1	175.2
95°	433.0	421.1	390.3	346.8	309.7	269.7	232.6	201.8	179.4	166.7	161.8
97.5°	345.4	331.4	309.0	278.9	250.8	222.8	195.5	174.5	158.3	149.9	145.7
100°	300.6	291.5	271.1	247.3	223.5	199.0	178.0	161.8	151.3	144.3	140.8
102.5°	283.1	276.7	257.8	234.0	211.6	187.8	166.7	152.0	144.3	138.0	135.2
105°	266.9	262.0	247.3	225.6	203.9	178.0	154.1	141.5	134.5	130.3	128.2
107.5°	250.1	244.5	230.5	209.5	190.6	168.2	147.1	131.7	122.6	117.7	117.0

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

Scaled Data Report

REPORT NUMBER: P1046428
CATALOG NUMBER: FFX-CLB-70-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	236.1	231.9	216.5	199.7	181.5	160.4	142.2	126.1	115.6	110.0	109.3
112.5°	221.4	216.5	201.1	185.0	169.6	151.3	135.2	121.2	111.4	105.8	105.1
115°	201.8	197.6	186.4	171.0	158.3	140.8	127.5	114.9	107.2	101.6	100.9
117.5°	203.9	192.0	176.6	162.5	151.3	138.7	126.8	117.0	105.1	98.8	98.8
120°	206.7	195.5	180.1	168.2	161.8	152.0	133.8	119.8	103.7	97.4	96.7
122.5°	203.9	205.3	196.9	185.0	172.4	155.5	133.1	117.7	101.6	96.7	97.4
125°	197.6	203.9	192.0	175.9	159.0	142.9	124.0	110.0	100.2	96.7	96.0
127.5°	178.7	177.3	161.8	149.9	138.0	124.7	112.8	104.4	97.4	93.2	91.1
130°	157.6	156.9	150.6	140.8	128.9	117.0	106.5	100.9	93.9	88.3	86.9
132.5°	166.0	163.9	150.6	134.5	121.2	111.4	104.4	98.1	88.3	82.0	81.3
135°	156.9	155.5	142.2	126.1	114.2	109.3	104.4	95.3	83.4	78.5	77.8
137.5°	143.6	138.0	126.8	117.0	111.4	110.0	103.7	93.2	82.0	76.4	75.7
140°	136.6	132.4	124.0	117.7	111.4	103.7	94.6	84.8	77.1	72.9	72.2
142.5°	145.0	143.6	131.0	119.8	110.0	100.9	91.1	84.8	76.4	70.8	70.1
145°	171.7	164.6	149.2	133.8	125.4	113.5	100.9	87.6	72.2	63.8	61.7
147.5°	187.8	181.5	166.0	149.2	131.0	112.1	92.5	75.7	63.8	57.5	56.1
150°	155.5	152.7	142.9	127.5	112.1	94.6	78.5	66.6	58.9	54.6	54.6
152.5°	109.3	108.6	104.4	95.3	85.5	75.7	67.3	60.3	56.1	53.2	53.2
155°	96.7	95.3	92.5	84.1	77.1	68.7	62.4	58.2	55.3	53.2	53.2
157.5°	83.4	82.0	81.3	75.0	69.4	63.8	58.9	55.3	53.2	51.8	51.1
160°	74.3	72.2	70.1	66.6	63.1	60.3	58.2	55.3	53.2	51.8	51.8
162.5°	69.4	68.0	64.5	61.7	60.3	60.3	61.0	59.6	55.3	53.2	52.5
165°	69.4	67.3	62.4	59.6	59.6	63.1	66.6	63.8	60.3	56.1	55.3
167.5°	70.1	68.7	63.8	61.7	63.8	68.0	71.5	70.8	65.9	62.4	62.4
170°	65.2	64.5	65.2	67.3	69.4	70.1	71.5	70.8	72.2	77.1	77.1
172.5°	63.1	63.8	67.3	70.8	75.0	75.0	71.5	70.8	77.1	84.1	85.5
175°	65.9	67.3	70.8	75.0	78.5	78.5	75.0	75.7	82.0	88.3	89.7
177.5°	63.1	63.8	65.2	64.5	65.9	62.4	63.8	62.4	64.5	64.5	64.5
180°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5

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

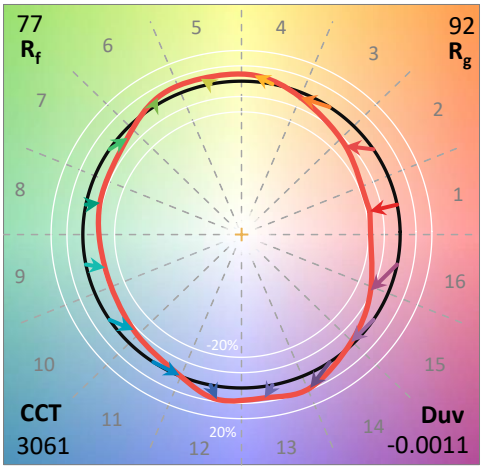
Test Information

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

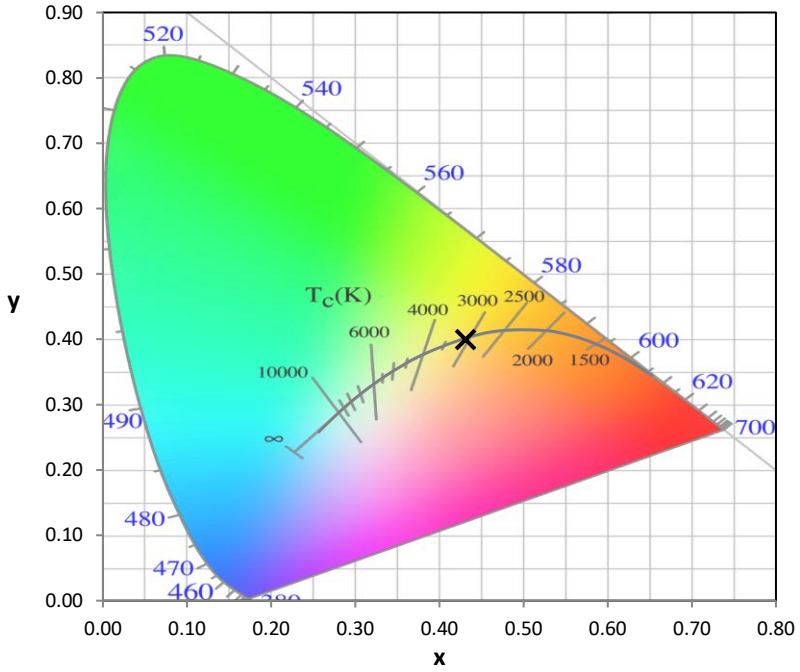
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

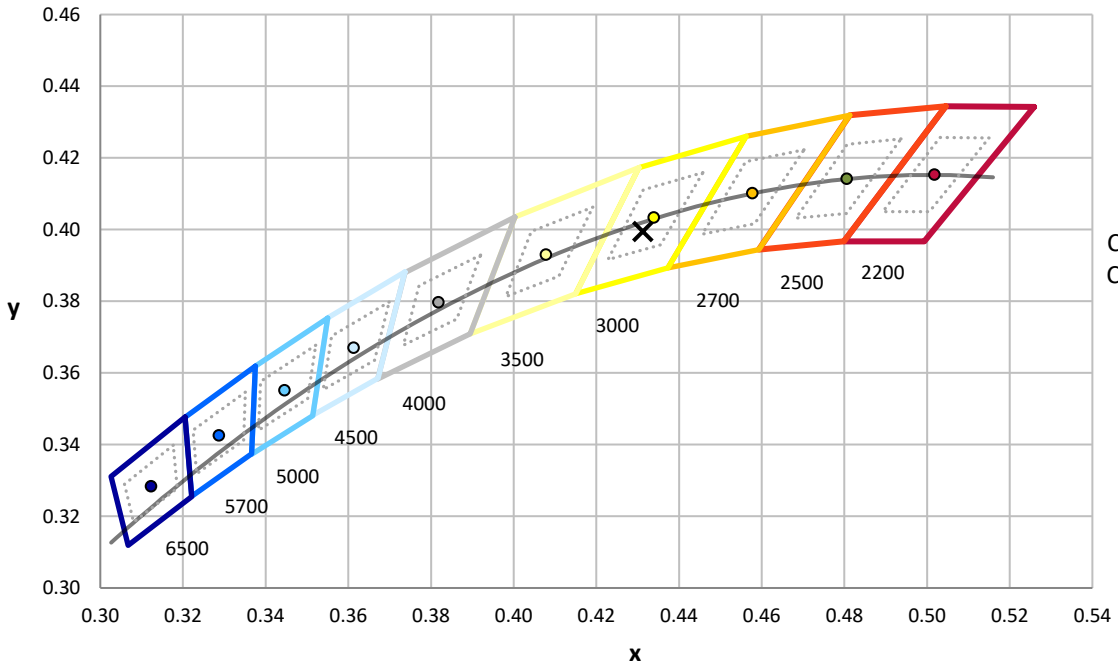
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

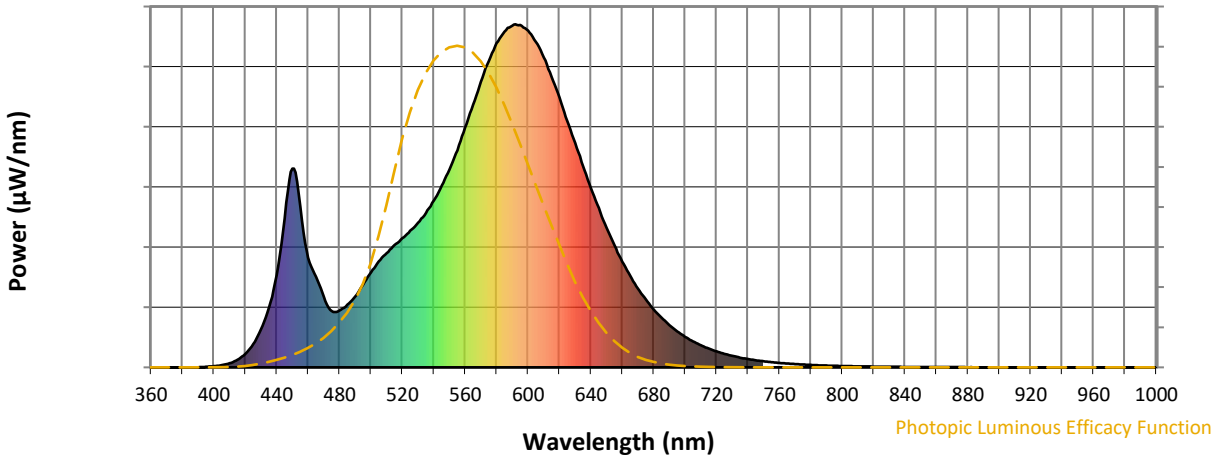


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

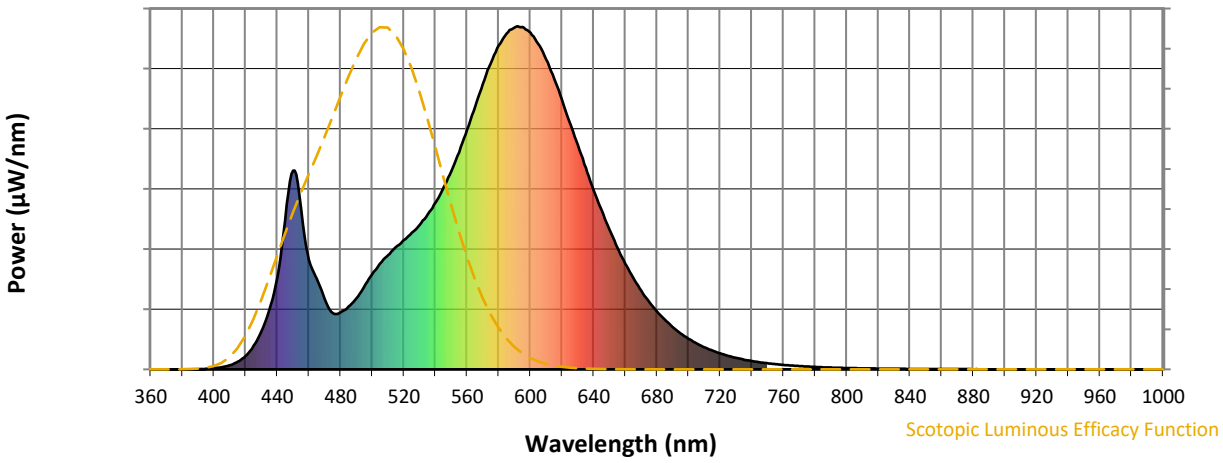


Photopic Lumens: NR

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

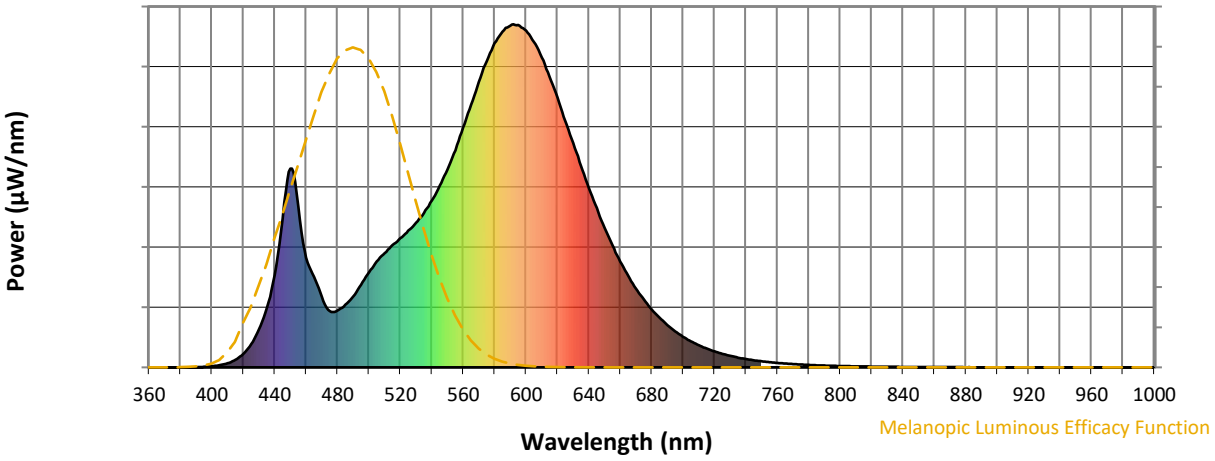


Scotopic Lumens: NR **S/P: 1.29**

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			

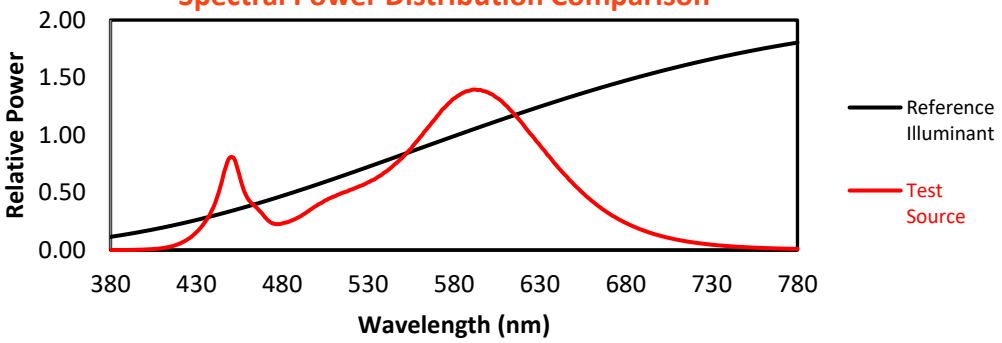
REPORT NUMBER: SP1-2501-332-4

TM-30-18

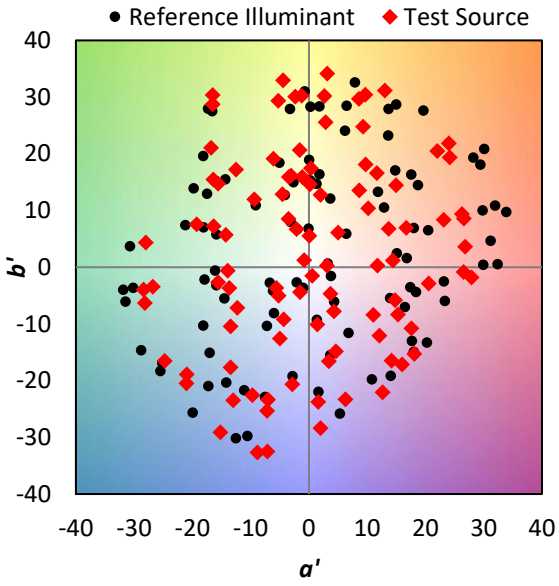
Summary

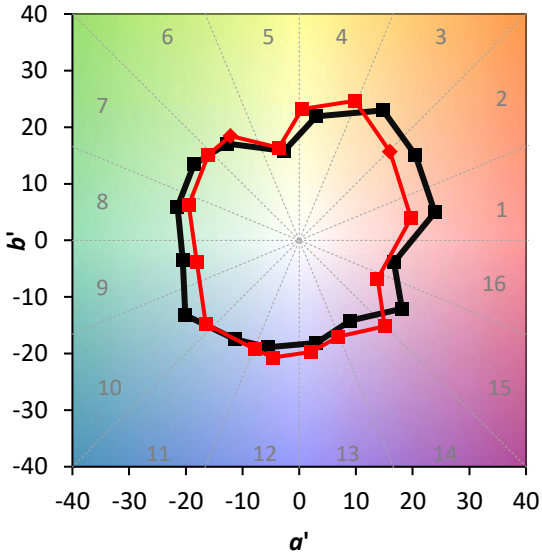
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

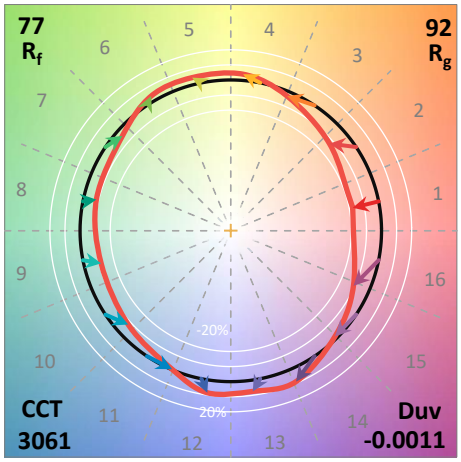
Spectral Power Distribution Comparison

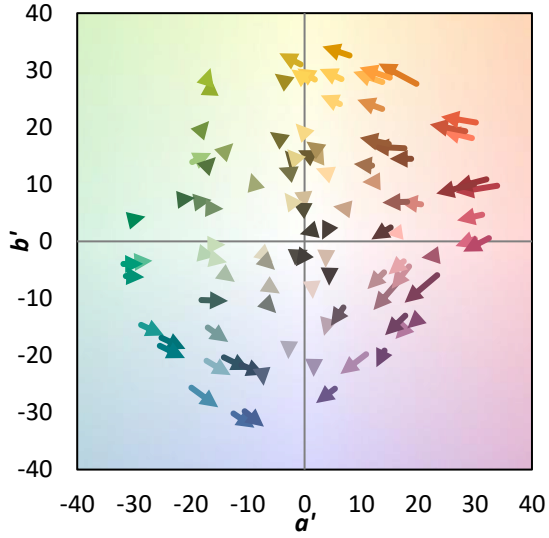


Color Vector Graphics







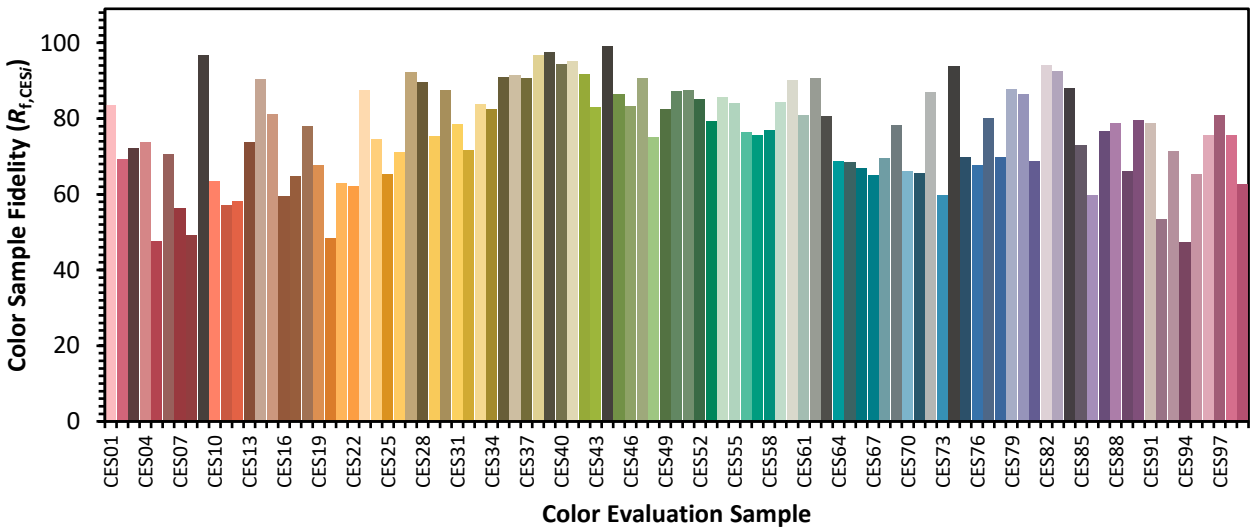


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

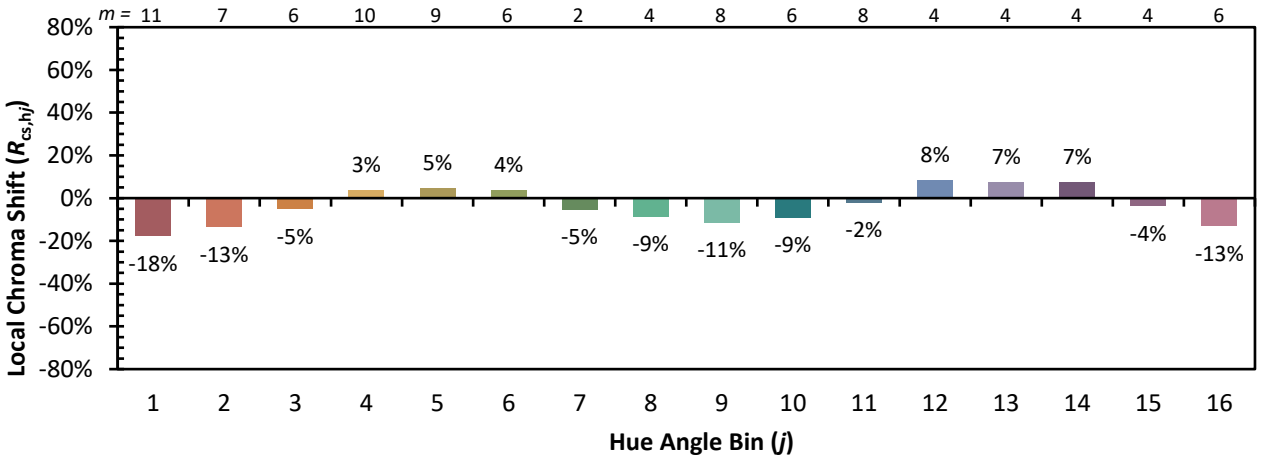
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 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
CES25 = 73	CES50 = 87	CES75 = 70	

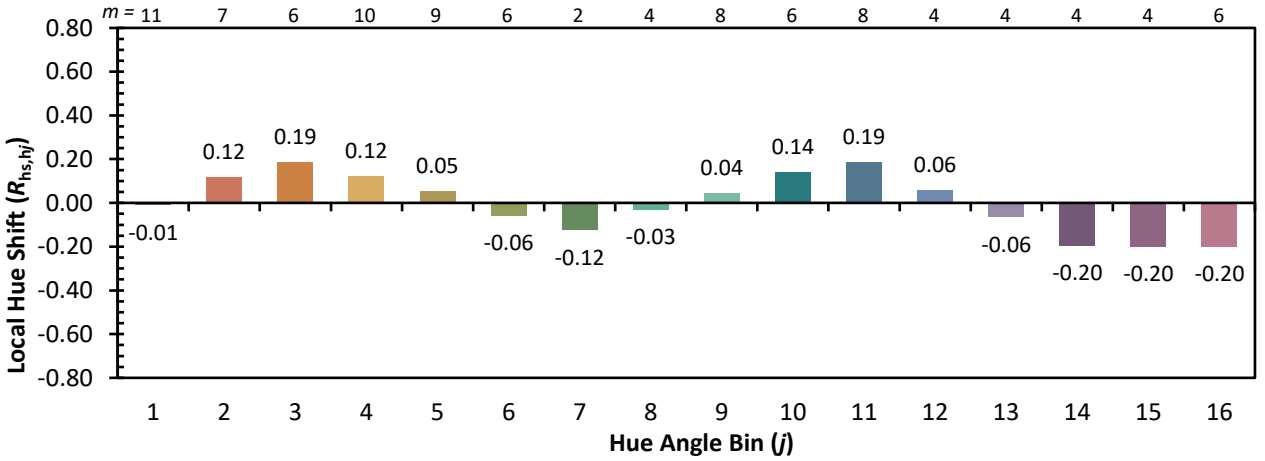


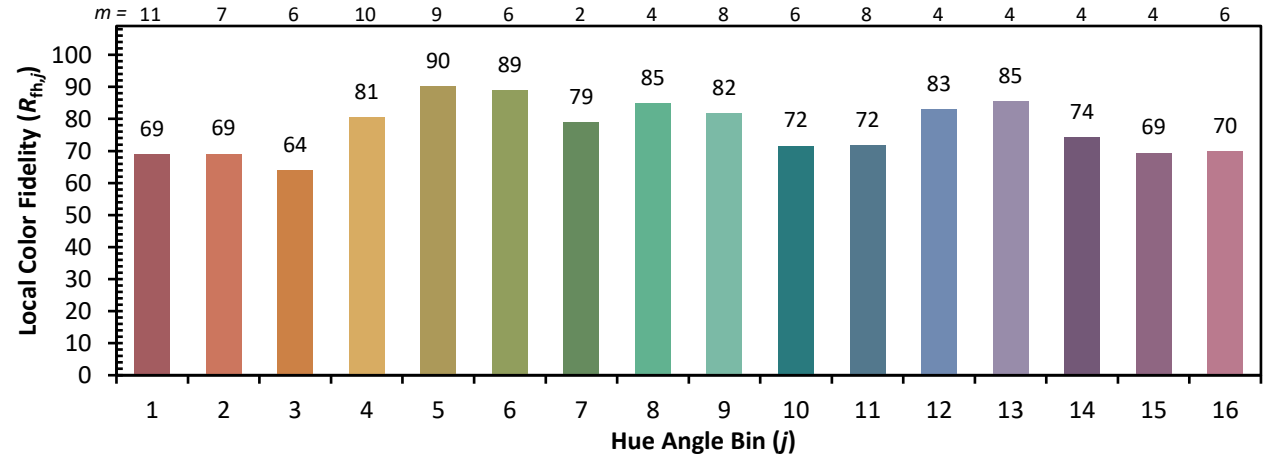
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Color Rendition by Hue-Angle Bin



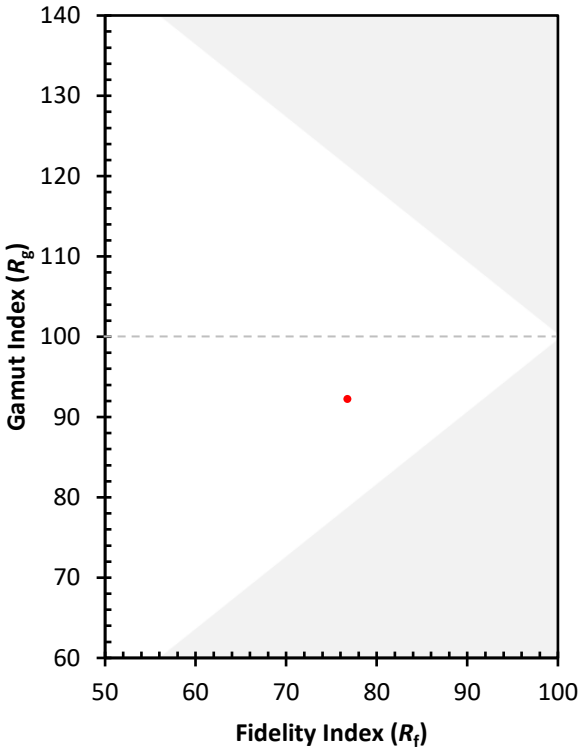


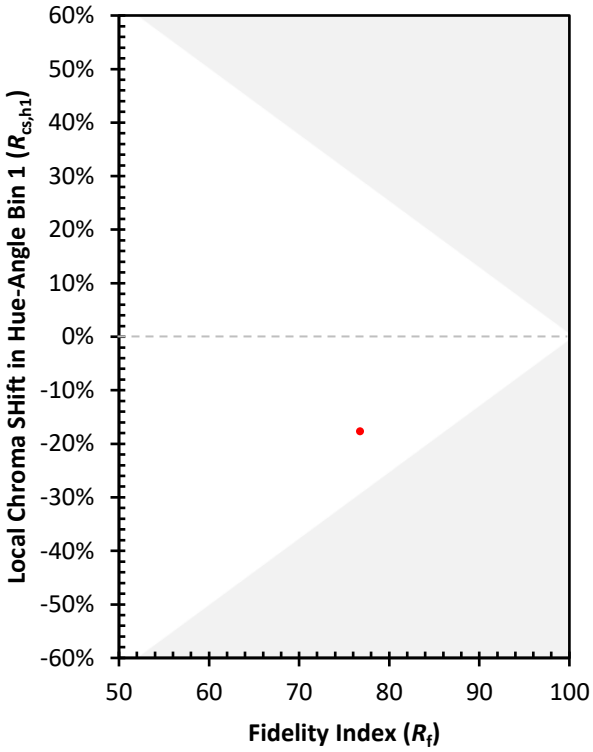


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Measure Comparisons





(END OF REPORT)