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: P981427

Luminaire Tested: **FFX-CLB-70-730-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981427
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-730-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10882.4 lumens
Efficiency:	N/A
Efficacy:	152.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U5 - 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

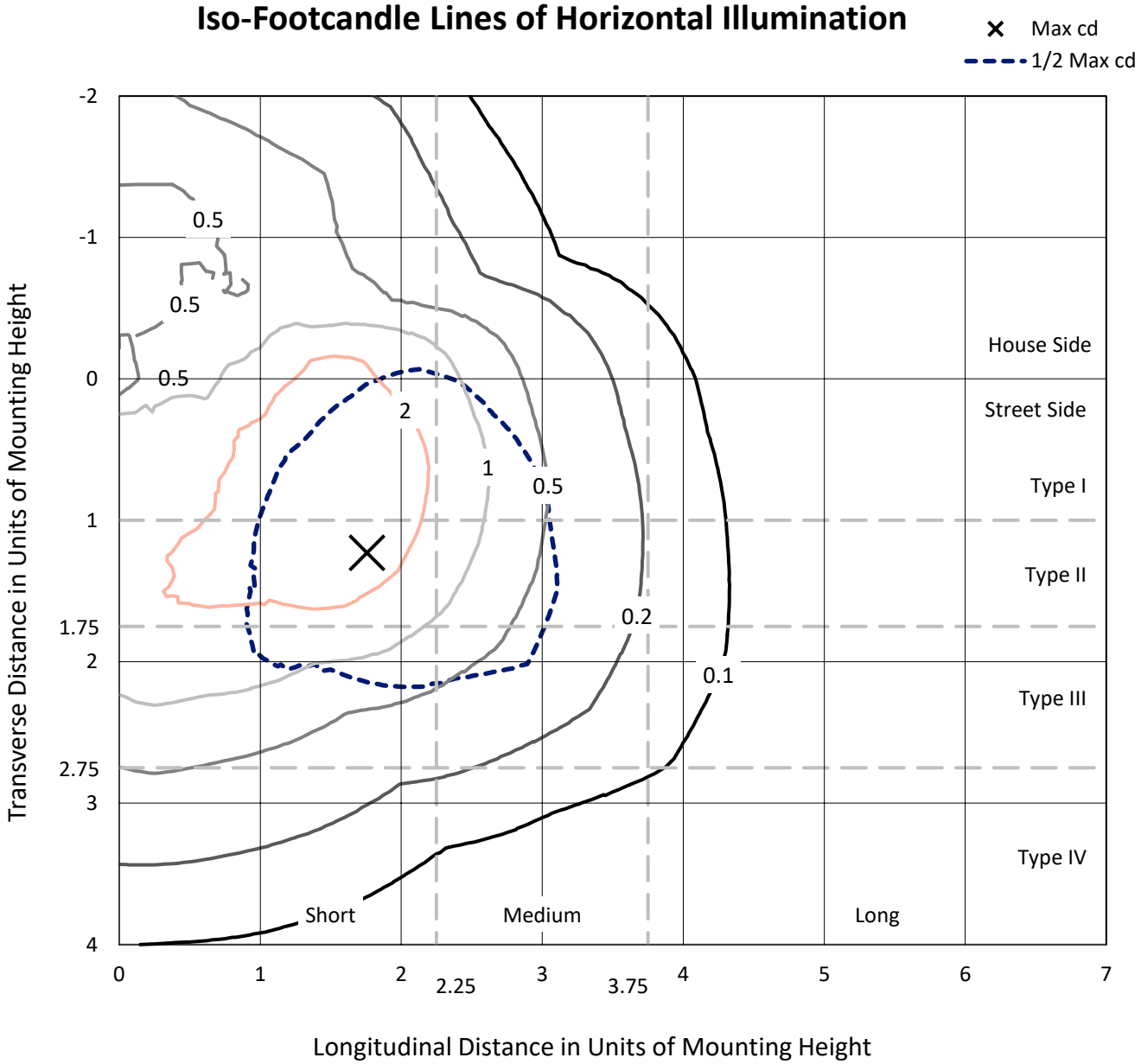


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Iso-Footcandle Lines of Horizontal Illumination



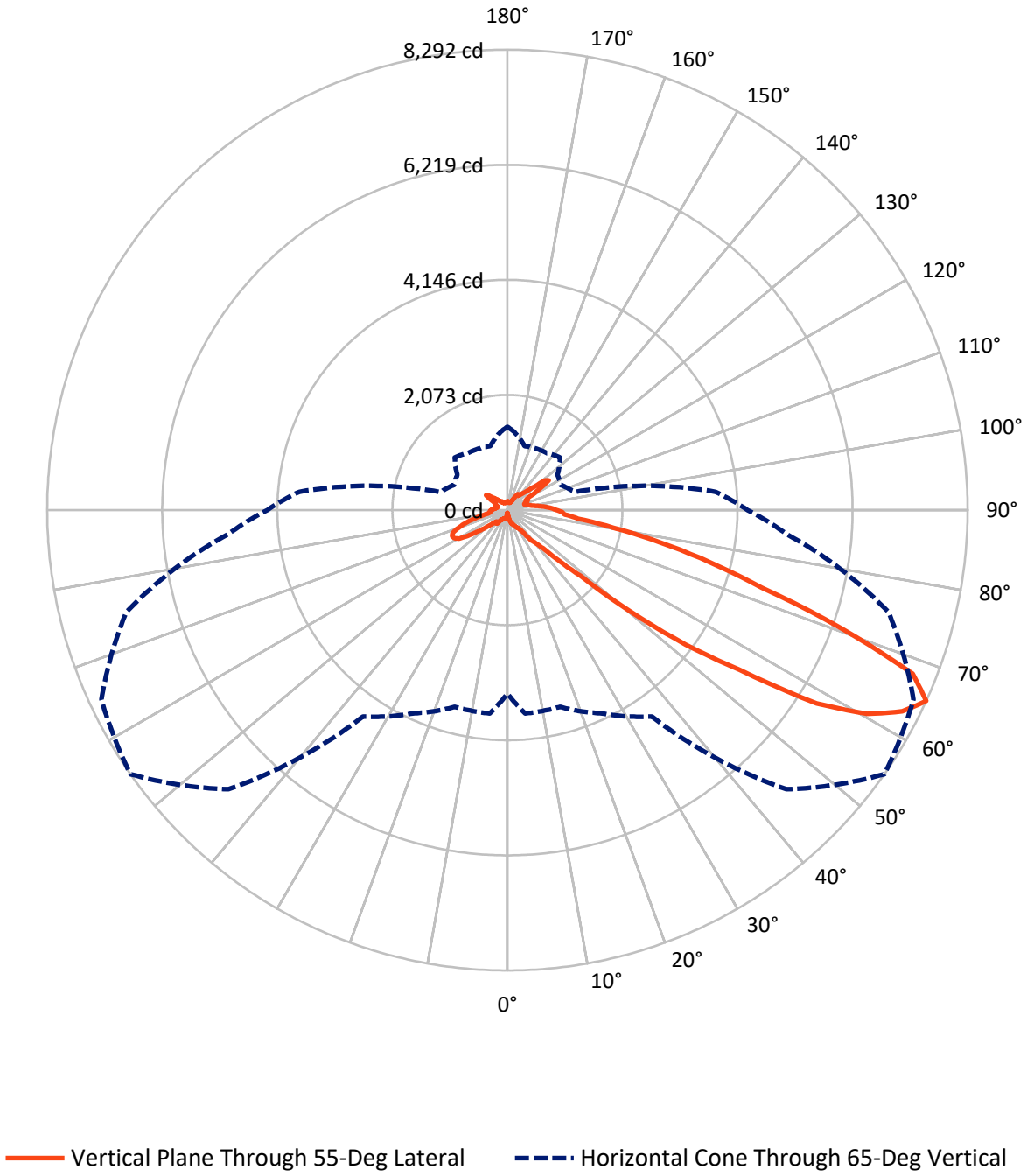
Based on 15 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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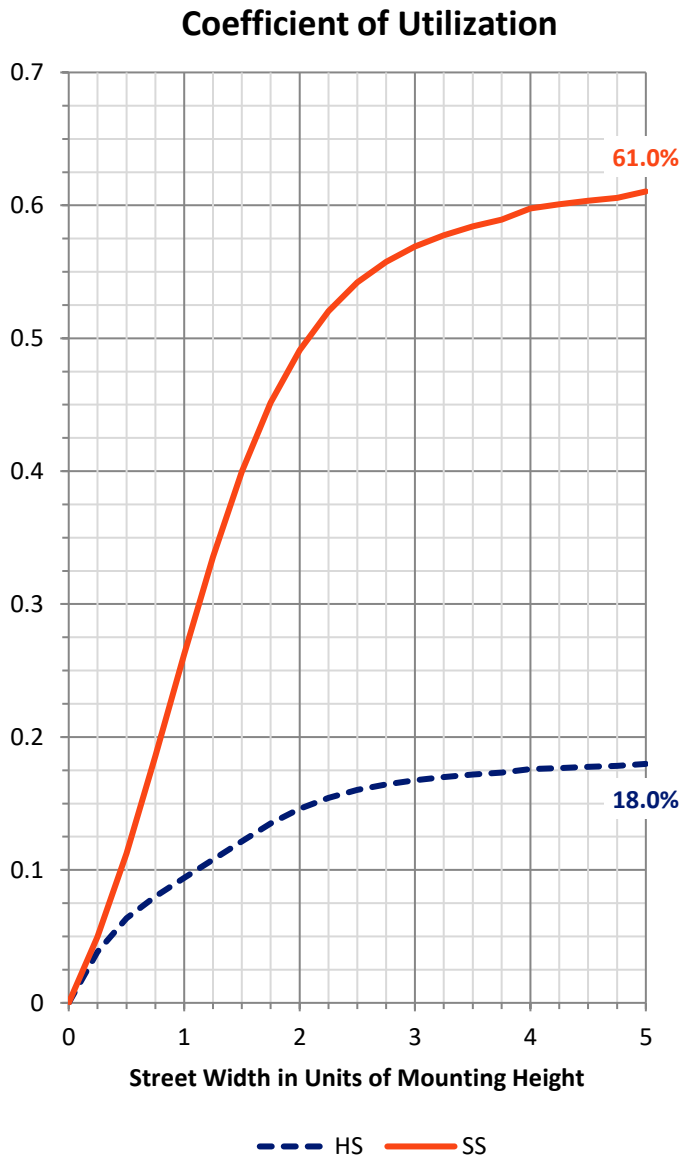
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2039.8	730.8	2770.6
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	6858.1	1253.6	8111.8
	% Fixture	63.0	11.5	74.5
Total	Lumens	8898.0	1984.4	10882.4
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	0.1
10°-20°	55.3	0.5
20°-30°	113.6	1.0
30°-40°	237.9	2.2
40°-50°	628.3	5.8
50°-60°	2090.6	19.2
60°-70°	3372.3	31.0
70°-80°	1769.0	16.3
80°-90°	620.7	5.7
90°-100°	400.8	3.7
100°-110°	259.8	2.4
110°-120°	285.1	2.6
120°-130°	479.4	4.4
130°-140°	280.9	2.6
140°-150°	150.3	1.4
150°-160°	74.6	0.7
160°-170°	39.3	0.4
170°-180°	14.2	0.1
0°-90°	8898.0	81.8
0°-180°	10882.4	100.0



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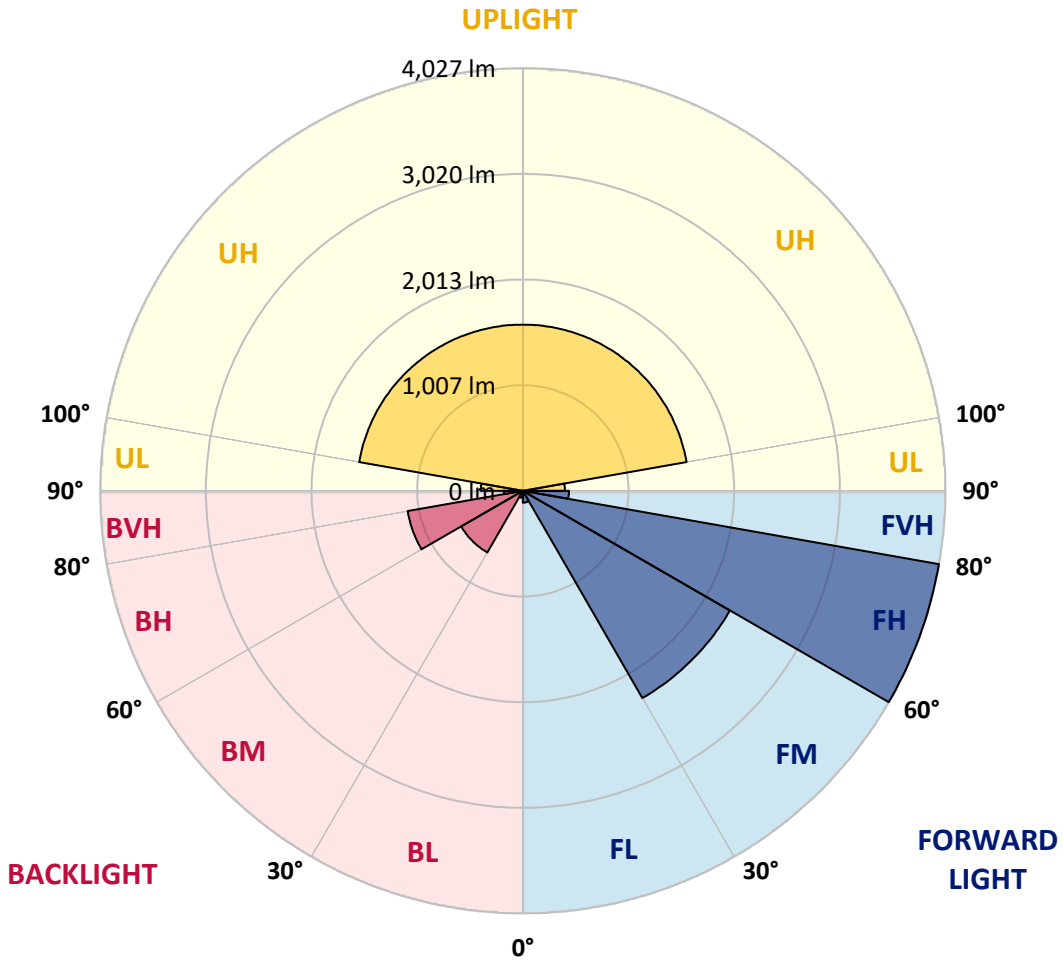
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	112.9	1.0			
FM	(30°-60°)	2279.0	20.9			
FH	(60°-80°)	4026.7	37.0			G2/5000
FVH	(80°-90°)	439.5	4.0			G3/500
BL	(0°-30°)	66.1	0.6	B0/110		
BM	(30°-60°)	677.8	6.2	B1/1000		
BH	(60°-80°)	1114.6	10.2	B3/2500		G3/2500
BVH	(80°-90°)	181.3	1.7			G2/225
UL	(90°-100°)	400.8	3.7		U3/500	
UH	(100°-180°)	1583.7	14.6		U5	

BUG Rating: B3-U5-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
2.5°	61.6	63.1	66.6	68.1	68.8	67.4	64.5	67.4	67.4	67.4	66.6
5°	89.6	89.6	89.6	91.7	92.4	93.9	92.4	88.9	86.0	83.1	82.4
7.5°	125.4	126.8	127.6	127.6	127.6	130.4	133.3	126.8	121.1	115.4	113.9
10°	179.9	176.3	172.7	174.1	171.3	165.5	168.4	163.4	150.5	146.2	146.2
12.5°	230.0	229.3	230.7	222.9	218.6	206.4	207.8	204.9	195.6	180.6	175.6
15°	258.0	260.1	259.4	262.3	255.8	238.6	234.3	235.8	227.2	212.8	205.7
17.5°	272.3	272.3	273.0	276.6	276.6	260.1	253.0	249.4	242.2	230.0	220.7
20°	279.5	279.5	278.8	283.8	293.8	284.5	274.5	268.7	262.3	242.9	228.6
22.5°	299.5	298.1	296.0	297.4	312.4	309.6	301.7	293.1	283.8	254.4	236.5
25°	320.3	321.0	314.6	316.7	331.8	336.1	329.6	321.0	310.3	265.9	247.9
27.5°	344.0	343.3	334.7	337.5	345.4	361.2	353.3	349.0	331.1	275.2	258.0
30°	365.5	361.9	353.3	360.4	360.4	385.5	378.4	380.5	358.3	292.4	273.7
32.5°	381.2	380.5	375.5	384.8	379.8	412.0	409.9	427.8	394.8	326.1	308.9
35°	417.1	417.8	438.6	456.5	447.9	495.2	505.2	528.1	488.0	409.9	391.3
37.5°	675.0	666.4	637.8	604.8	609.1	697.2	685.1	697.2	635.6	523.1	493.7
40°	710.9	713.0	680.1	655.0	651.4	763.9	782.5	881.4	752.4	627.0	569.0
42.5°	692.2	699.4	789.7	821.9	793.3	936.6	942.3	1132.9	877.8	773.2	696.5
45°	877.8	879.3	897.9	918.7	922.3	1279.1	1299.2	1509.9	1116.5	973.9	844.2
47.5°	998.9	1010.4	1036.2	1178.1	1253.3	1635.3	1769.3	2103.9	1486.9	1327.9	1072.0
50°	1412.4	1443.9	1571.5	1693.3	1810.8	2425.0	2875.7	3274.9	2233.6	1946.3	1557.9
52.5°	1721.3	1834.5	1977.1	2270.9	2394.9	3314.3	4022.3	4269.5	3128.7	2637.8	2122.6
55°	1989.3	2197.1	2351.2	2832.0	3067.8	4321.1	5076.4	5112.2	4198.5	3219.7	2721.6
57.5°	2541.1	2844.2	2944.5	3355.8	3684.0	5520.0	6569.0	6392.8	5290.6	3882.5	3360.8
60°	3060.6	3409.6	3372.3	3751.4	4185.6	6551.1	7452.6	7363.0	6313.9	4510.3	3919.8
62.5°	3229.7	3583.7	3552.2	3950.6	4534.6	7032.0	7982.9	7834.6	6918.0	4903.0	4200.7
65°	3303.5	3676.9	3668.3	4040.9	4538.9	7108.6	8291.7	8071.0	7107.9	5061.3	4323.9
67.5°	3240.5	3595.9	3592.3	3935.6	4207.9	6552.6	7874.0	7548.6	6640.0	4688.7	4058.1
70°	2796.2	3043.4	3028.3	3239.0	3381.6	5208.2	6389.9	6144.1	5358.7	3853.1	3361.6
72.5°	2280.2	2353.3	2384.8	2505.2	2543.2	3811.6	4791.9	4596.3	3995.7	2885.7	2548.9
75°	1820.9	1824.5	1857.4	1899.7	1886.8	2804.0	3774.3	3653.2	2946.6	2152.7	1933.4
77.5°	1205.3	1196.0	1340.8	1358.0	1275.5	1786.5	2818.4	2733.1	2108.9	1568.6	1413.8
80°	691.5	694.4	793.3	855.6	822.7	1135.1	1931.2	1912.6	1448.2	1097.8	971.0
82.5°	516.0	540.3	593.3	626.3	613.4	853.5	1284.9	1320.0	1029.0	789.7	721.6
85°	574.7	588.3	594.1	596.2	580.4	798.3	1037.6	1035.5	864.9	662.9	639.9
87.5°	559.7	571.1	576.1	579.0	563.2	763.2	980.3	966.0	829.8	637.1	603.4
90°	470.8	497.3	496.6	521.7	503.8	670.7	859.9	850.6	753.1	586.9	547.5
92.5°	394.8	409.9	419.9	454.3	438.6	590.5	773.2	751.7	674.3	533.9	491.6
95°	369.0	382.7	390.5	409.9	390.5	510.2	651.4	632.0	559.7	445.0	404.2
97.5°	311.0	315.3	322.5	335.4	322.5	413.5	527.4	508.8	449.3	363.3	334.7
100°	263.7	268.0	277.3	286.6	280.2	354.0	441.4	431.4	386.2	316.0	296.7
102.5°	249.4	252.2	264.4	270.2	262.3	325.3	389.8	389.8	349.7	291.7	275.9
105°	237.9	241.5	250.8	253.0	247.2	299.5	359.7	356.1	324.6	273.0	258.0
107.5°	226.4	230.7	238.6	235.0	232.2	275.9	323.2	328.9	301.7	259.4	249.4
110°	238.6	240.1	246.5	240.8	245.8	274.5	324.6	326.1	318.2	283.1	272.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	324.6	316.7	330.4	308.9	325.3	345.4	*376.9*	388.4	379.1	339.0	329.6
115°	355.4	361.2	375.5	354.0	364.7	389.1	*404.2*	406.3	395.6	369.8	366.2
117.5°	277.3	306.0	290.9	303.8	308.1	341.8	*376.2*	386.2	376.2	340.4	362.6
120°	354.7	377.6	326.1	310.3	331.8	390.5	*422.1*	430.7	403.4	404.2	417.8
122.5°	588.3	601.2	633.5	650.0	624.9	660.7	*671.5*	679.3	637.8	589.0	564.7
125°	892.9	883.6	879.3	875.0	868.5	906.5	*913.7*	893.6	852.0	784.0	746.0
127.5°	807.6	815.5	827.7	826.2	820.5	849.9	*867.8*	855.6	844.2	778.9	756.7
130°	581.2	584.7	606.2	644.9	640.6	664.3	*666.4*	678.6	698.0	669.3	646.4
132.5°	481.6	485.1	517.4	534.6	536.0	536.7	*526.7*	554.6	574.7	546.0	526.7
135°	419.9	419.9	427.1	420.6	422.8	441.4	*450.0*	475.1	480.1	466.5	447.2
137.5°	371.2	372.6	357.6	345.4	347.5	381.2	*400.6*	419.9	409.9	381.9	368.3
140°	323.2	315.3	294.5	290.9	306.7	339.0	*350.4*	364.0	366.9	331.1	313.2
142.5°	237.9	235.0	244.4	263.7	272.3	326.1	*317.5*	343.3	344.7	284.5	255.1
145°	265.9	265.1	264.4	268.0	288.1	366.2	*345.4*	378.4	394.1	302.4	247.2
147.5°	300.3	299.5	293.1	285.2	315.3	334.7	*316.0*	344.7	361.9	300.3	239.3
150°	232.2	233.6	230.0	227.9	260.8	257.3	*253.0*	260.8	268.0	248.7	217.8
152.5°	180.6	177.7	175.6	176.3	203.5	199.2	*199.2*	204.9	205.7	198.5	182.7
155°	162.7	162.0	160.5	163.4	179.9	175.6	*172.0*	170.6	167.0	164.8	162.7
157.5°	152.6	151.2	151.2	155.5	167.0	159.8	*158.4*	156.9	154.8	154.8	155.5
160°	142.6	141.9	141.9	148.3	151.9	145.5	*144.0*	143.3	142.6	144.0	145.5
162.5°	136.9	136.9	136.9	141.2	141.2	136.9	*135.4*	134.7	135.4	140.5	141.2
165°	134.7	134.0	134.7	136.9	136.2	133.3	*132.6*	132.6	134.7	139.0	139.7
167.5°	138.3	138.3	138.3	139.0	138.3	135.4	*134.7*	134.7	136.9	140.5	140.5
170°	144.0	143.3	143.3	143.3	142.6	139.7	*138.3*	139.0	139.7	141.9	141.9
172.5°	149.1	149.1	148.3	147.6	146.2	144.8	*143.3*	143.3	143.3	144.0	144.0
175°	154.8	154.8	154.8	154.1	154.1	151.9	*151.2*	150.5	149.8	149.1	148.3
177.5°	161.2	160.5	160.5	160.5	160.5	158.4	*156.9*	156.2	154.8	154.1	154.1
180°	158.4	158.4	158.4	158.4	158.4	158.4	*158.4*	158.4	158.4	158.4	158.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
2.5°	66.6	64.5	60.9	54.5	52.3	50.2	48.0	43.7	41.6	40.1
5°	81.7	78.8	78.1	74.5	69.5	65.2	64.5	63.1	62.3	60.2
7.5°	116.8	118.2	121.8	115.4	101.0	93.2	95.3	103.2	100.3	99.6
10°	146.9	156.2	163.4	146.9	121.1	104.6	105.3	121.1	122.5	125.4
12.5°	172.0	179.9	178.4	157.7	133.3	117.5	112.5	121.1	129.0	129.7
15°	199.2	185.6	180.6	163.4	146.2	134.0	131.9	134.0	134.0	132.6
17.5°	210.7	187.0	172.7	158.4	146.2	137.6	134.7	131.1	126.1	126.1
20°	213.5	192.8	176.3	161.2	149.1	139.7	131.9	127.6	126.1	126.1
22.5°	222.1	203.5	186.3	168.4	155.5	143.3	134.0	129.7	129.7	130.4
25°	234.3	217.1	195.6	177.0	163.4	150.5	138.3	131.9	131.1	131.9
27.5°	249.4	231.5	207.8	187.7	172.0	157.7	142.6	134.7	131.9	131.9
30°	266.6	245.8	219.3	197.1	179.9	167.0	148.3	137.6	134.0	132.6
32.5°	297.4	273.7	233.6	209.2	189.9	175.6	156.9	143.3	136.2	134.7
35°	373.3	336.8	284.5	240.1	210.7	185.6	163.4	146.9	137.6	136.2
37.5°	455.8	400.6	351.1	301.7	258.7	217.8	175.6	152.6	141.2	139.0
40°	507.4	435.0	391.3	317.5	311.7	278.0	215.7	168.4	148.3	145.5
42.5°	613.4	505.2	435.7	280.2	304.6	311.7	272.3	211.4	167.7	162.7
45°	738.8	594.1	488.7	299.5	313.9	305.3	278.8	245.1	209.2	199.2
47.5°	957.4	677.9	507.4	347.5	359.0	335.4	296.0	260.8	234.3	230.7
50°	1381.6	924.4	571.1	427.1	461.5	395.6	344.7	317.5	281.6	277.3
52.5°	1927.6	1112.9	641.4	552.5	630.6	548.9	466.5	411.3	403.4	406.3
55°	2519.6	1170.9	733.8	682.9	819.8	743.1	648.5	595.5	647.8	664.3
57.5°	3106.5	1258.3	867.8	852.0	1026.2	909.4	834.8	857.8	1075.6	1127.9
60°	3568.7	1332.9	981.0	1014.7	1230.4	1103.6	1072.0	1105.7	1479.8	1618.8
62.5°	3750.0	1299.2	1039.8	1083.5	1326.4	1239.7	1229.0	1261.2	1576.5	1713.4
65°	*3763.6*	*1247.6*	*1062.7*	*1102.1*	*1341.5*	*1249.0*	*1219.6*	*1192.4*	*1411.7*	*1498.4*
67.5°	3482.7	1144.4	1034.8	1075.6	1274.8	1152.3	1091.4	1029.8	1142.3	1190.3
70°	2807.6	1014.7	947.3	971.0	1072.0	958.8	875.7	833.4	873.5	869.9
72.5°	2126.9	893.6	851.3	827.7	875.7	784.0	692.2	651.4	687.2	677.9
75°	1624.5	797.6	758.2	679.3	725.9	601.9	500.9	473.0	490.2	483.7
77.5°	1172.4	639.2	586.9	500.2	560.4	437.8	336.1	316.0	320.3	306.7
80°	844.2	476.5	425.7	364.0	412.0	313.2	249.4	245.1	247.2	232.9
82.5°	662.9	381.9	348.3	315.3	330.4	283.1	240.1	235.8	237.9	222.1
85°	617.7	374.1	339.0	317.5	322.5	278.8	232.9	231.5	235.0	217.8
87.5°	582.6	370.5	342.5	311.7	299.5	255.8	215.7	222.1	232.2	214.3
90°	513.8	345.4	321.0	293.1	280.2	240.1	215.7	225.0	224.3	211.4
92.5°	452.9	308.1	288.8	273.0	270.2	244.4	225.7	234.3	237.2	224.3
95°	371.2	260.1	250.8	245.8	250.1	225.0	209.2	213.5	210.7	203.5
97.5°	316.0	237.2	230.7	223.6	219.3	201.4	187.7	193.5	196.3	189.9
100°	285.9	225.7	220.7	212.8	212.1	199.9	192.8	204.2	212.8	209.2
102.5°	267.3	214.3	207.8	200.6	198.5	188.5	182.7	189.9	197.8	190.6
105°	253.7	203.5	193.5	187.0	183.4	176.3	169.1	172.0	180.6	177.0
107.5°	240.8	202.8	187.0	182.0	182.0	172.7	162.7	163.4	167.7	167.0
110°	260.8	225.0	196.3	189.2	187.0	184.2	177.0	169.8	164.1	164.1

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

Scaled Data Report

REPORT NUMBER: P981427
CATALOG NUMBER: FFX-CLB-70-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	312.4	275.9	246.5	223.6	214.3	203.5	188.5	177.7	169.8	167.7
115°	335.4	296.0	268.0	242.9	221.4	200.6	187.7	179.9	175.6	179.9
117.5°	316.0	261.6	258.0	232.2	212.1	195.6	192.0	179.1	186.3	186.3
120°	355.4	303.8	296.0	258.7	230.7	210.0	207.8	205.7	197.8	194.2
122.5°	519.5	452.2	419.9	364.7	316.7	273.7	249.4	215.7	192.0	187.0
125°	705.8	617.0	539.6	466.5	394.1	317.5	253.0	202.8	178.4	174.8
127.5°	708.0	617.7	532.4	443.6	364.7	284.5	227.2	192.0	174.8	174.1
130°	622.7	543.9	450.0	361.9	298.1	245.1	203.5	174.8	162.7	159.1
132.5°	495.9	425.7	365.5	311.0	262.3	217.1	179.9	159.8	152.6	151.9
135°	417.1	356.1	313.9	273.7	235.8	195.6	161.2	151.2	147.6	146.2
137.5°	340.4	303.8	278.0	245.8	209.2	176.3	153.4	149.1	147.6	144.8
140°	295.2	270.9	242.9	207.1	179.1	151.9	139.7	143.3	146.9	146.2
142.5°	240.8	222.9	202.1	178.4	159.1	146.9	141.9	144.0	144.0	144.8
145°	228.6	204.9	193.5	179.1	166.3	156.9	144.8	140.5	139.7	139.7
147.5°	212.1	202.8	195.6	185.6	166.3	149.1	135.4	133.3	136.2	135.4
150°	198.5	192.0	183.4	167.7	148.3	136.9	129.7	130.4	135.4	136.2
152.5°	168.4	164.8	159.1	149.1	135.4	129.7	126.1	129.0	132.6	133.3
155°	149.8	147.6	146.2	139.7	131.1	127.6	126.1	128.3	131.9	132.6
157.5°	148.3	143.3	141.2	136.9	130.4	126.8	126.8	129.0	131.1	131.9
160°	144.0	137.6	136.9	132.6	131.1	129.0	130.4	131.1	133.3	132.6
162.5°	140.5	136.2	135.4	132.6	134.0	136.2	136.2	136.9	138.3	137.6
165°	139.0	135.4	134.7	134.7	139.0	142.6	143.3	142.6	142.6	142.6
167.5°	140.5	138.3	137.6	139.0	142.6	146.9	147.6	146.2	144.8	144.0
170°	142.6	141.9	142.6	143.3	145.5	148.3	148.3	146.9	146.9	146.9
172.5°	144.8	146.2	146.9	146.9	149.1	150.5	151.2	150.5	150.5	150.5
175°	149.1	149.8	149.8	150.5	152.6	154.1	155.5	155.5	155.5	155.5
177.5°	154.1	154.1	154.1	154.8	155.5	157.7	158.4	159.8	160.5	160.5
180°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4

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

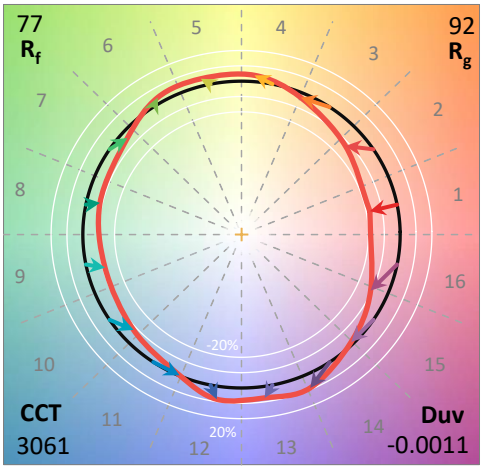
Test Information

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

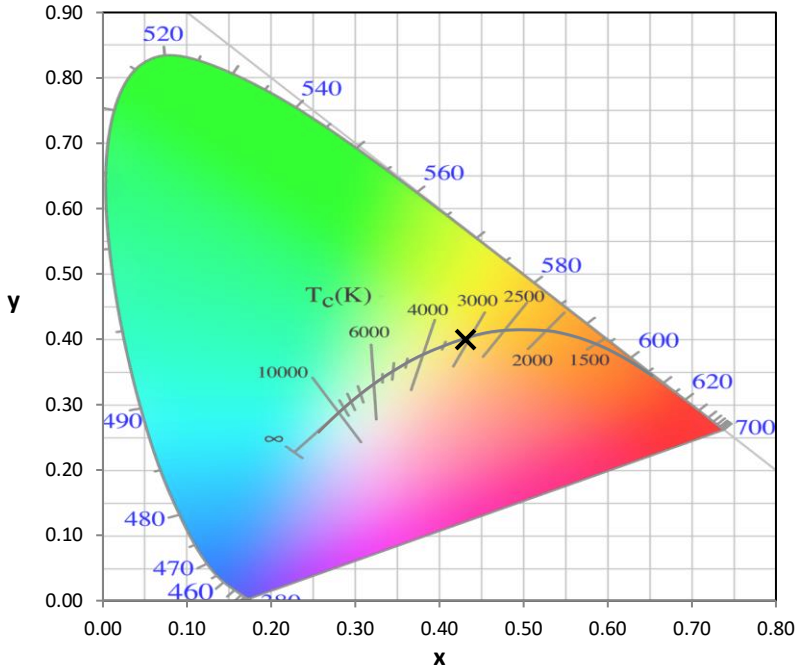
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

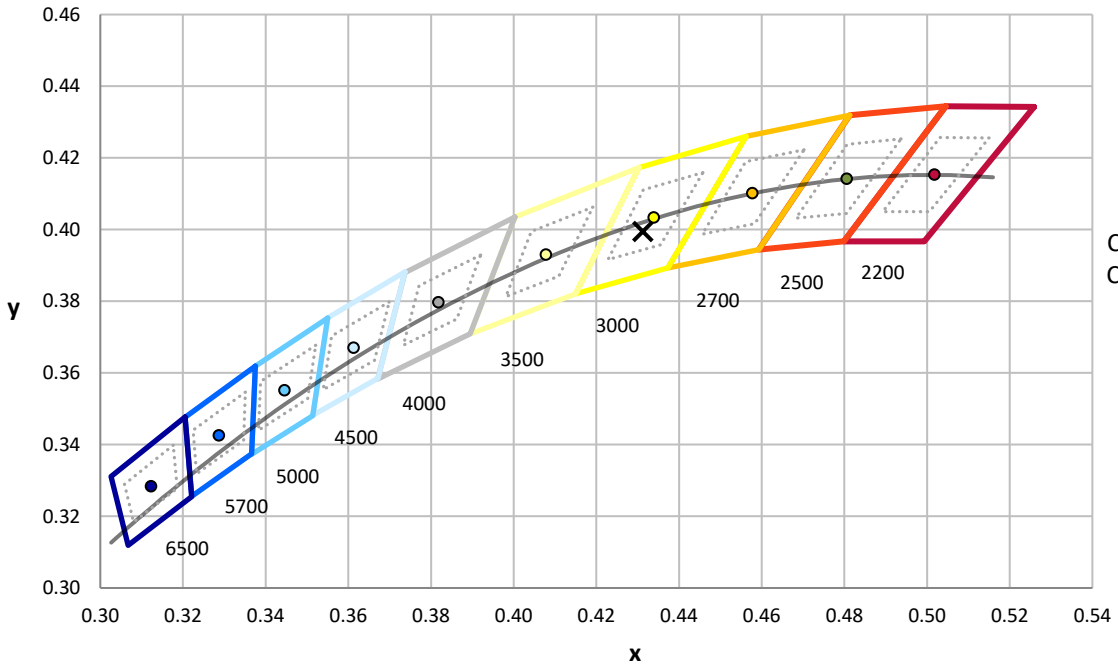
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

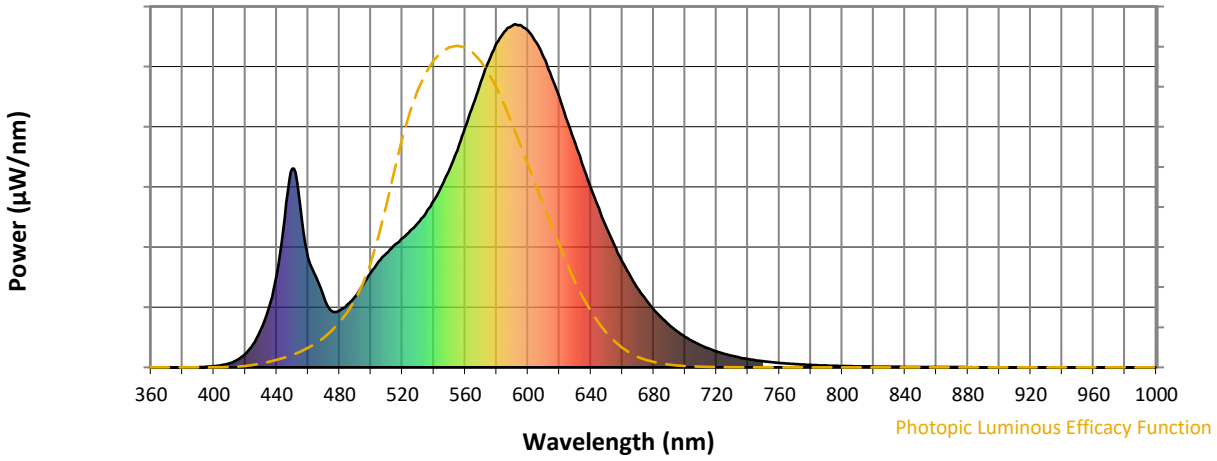


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

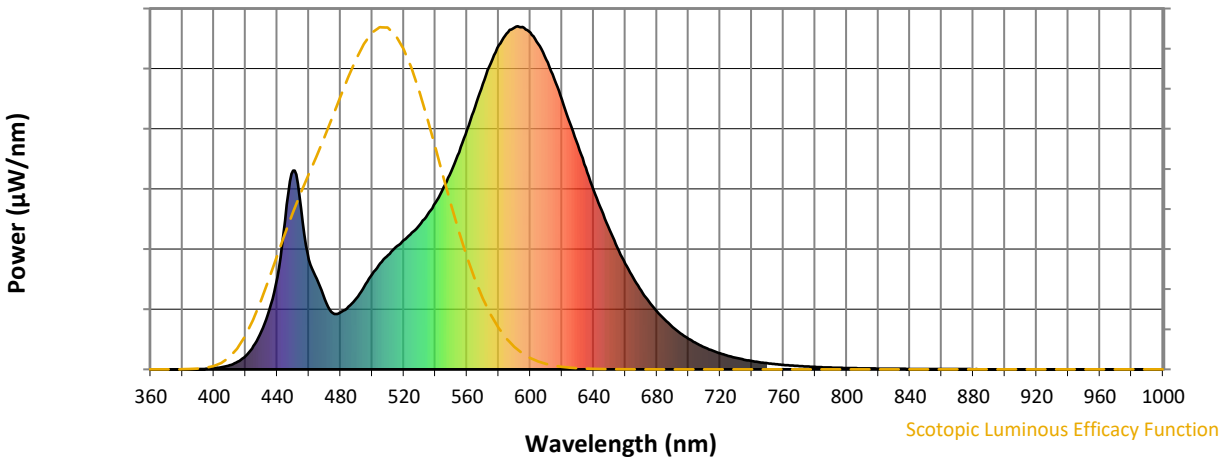


Photopic Lumens: NR

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

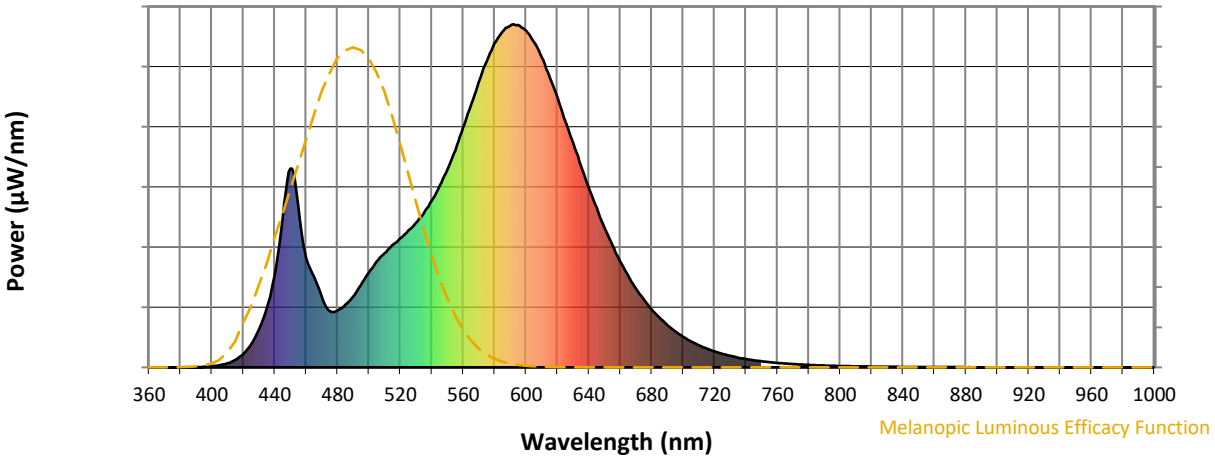


Scotopic Lumens: NR **S/P: 1.29**

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			

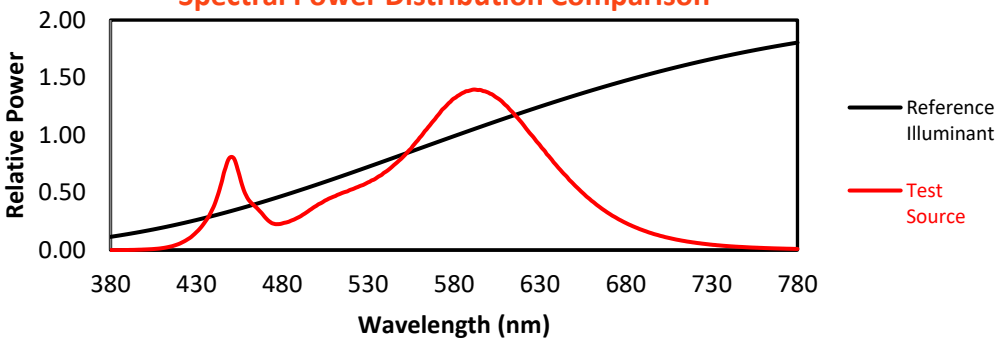
REPORT NUMBER: SP1-2501-332-4

TM-30-18

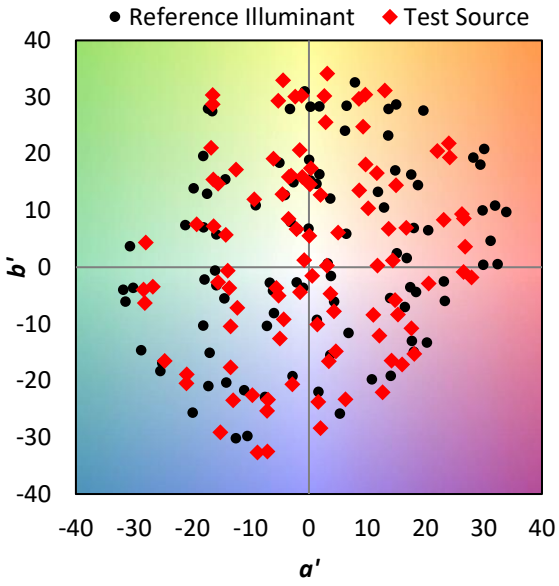
Summary

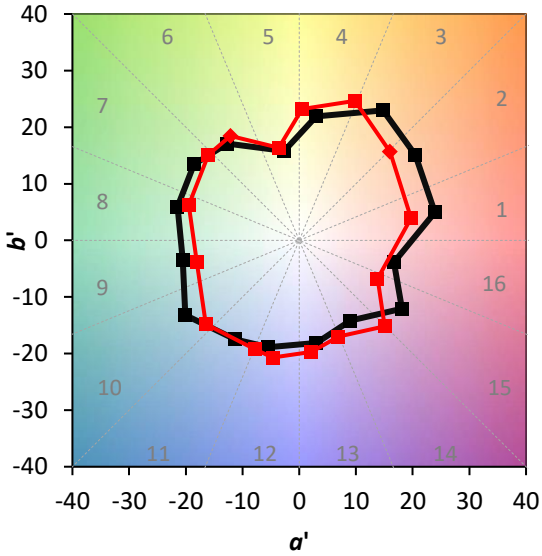
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

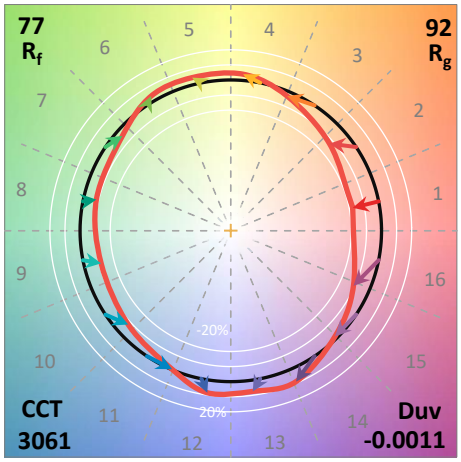
Spectral Power Distribution Comparison

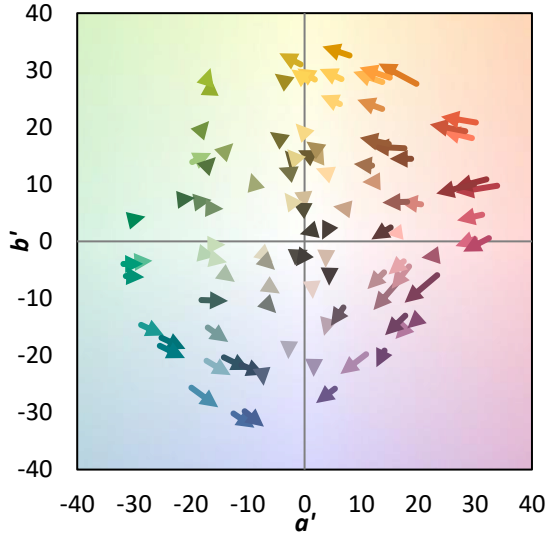


Color Vector Graphics







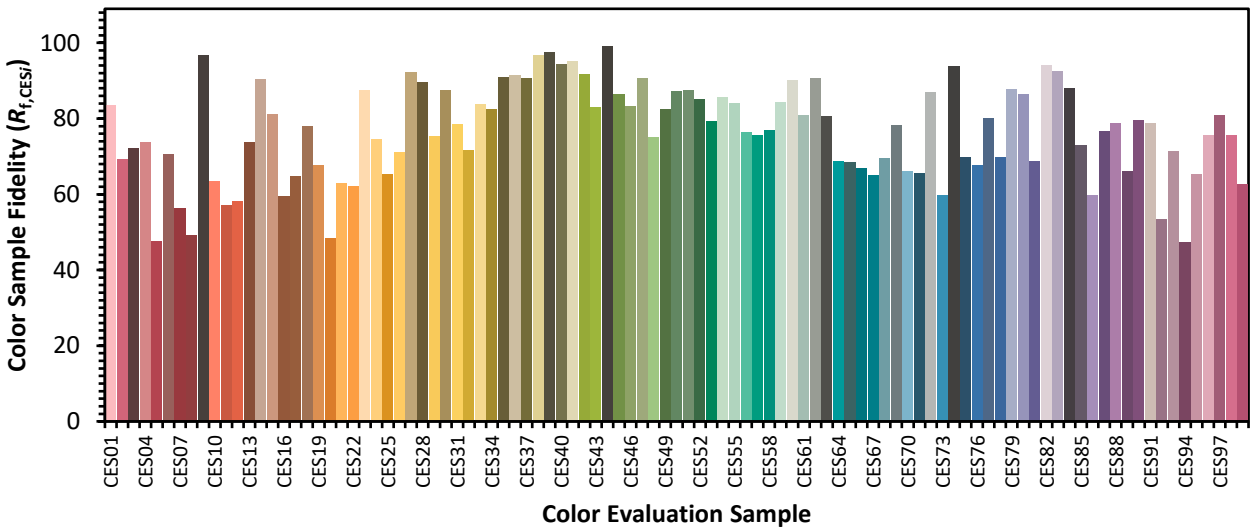


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

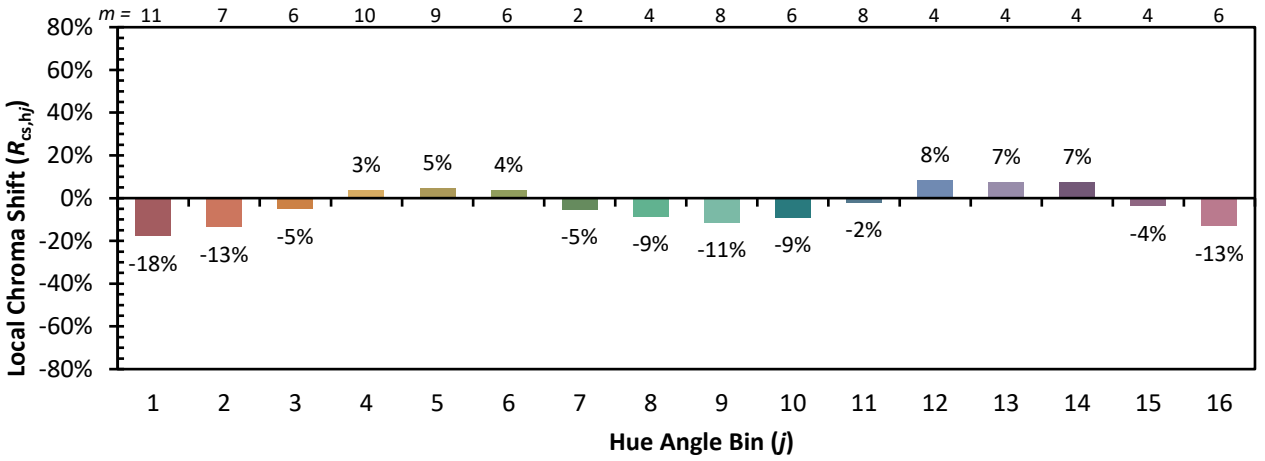
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

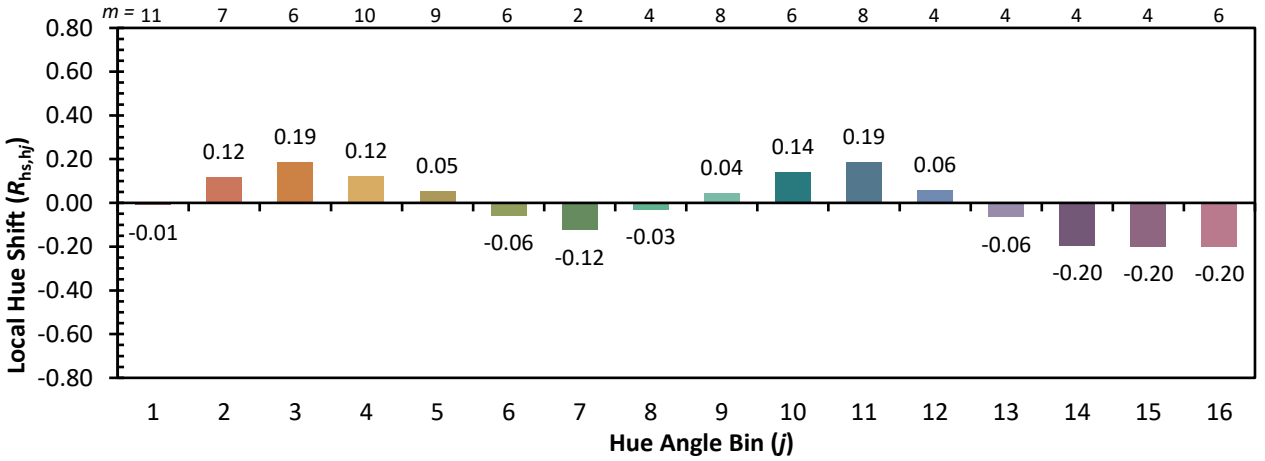


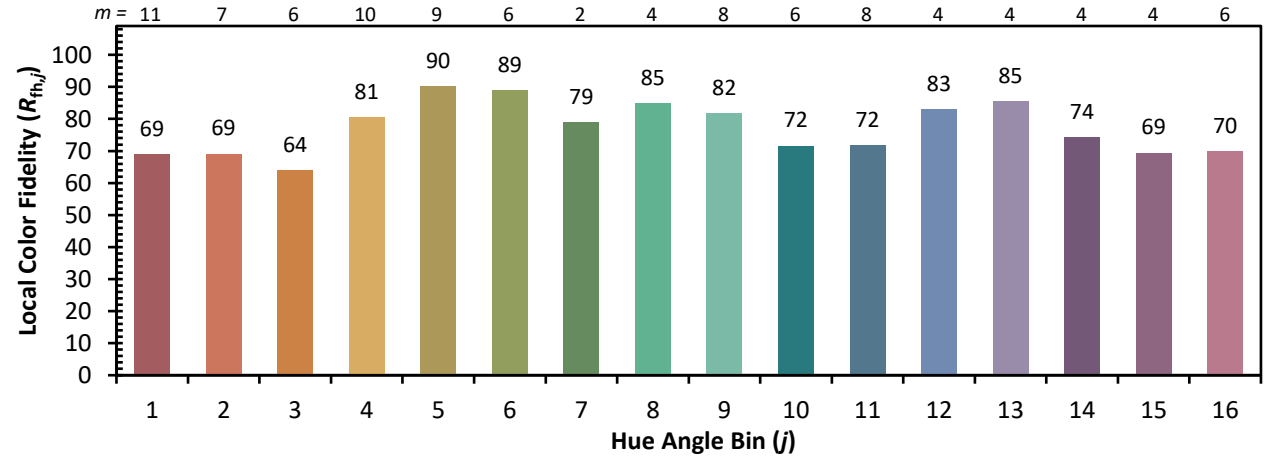
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Color Rendition by Hue-Angle Bin



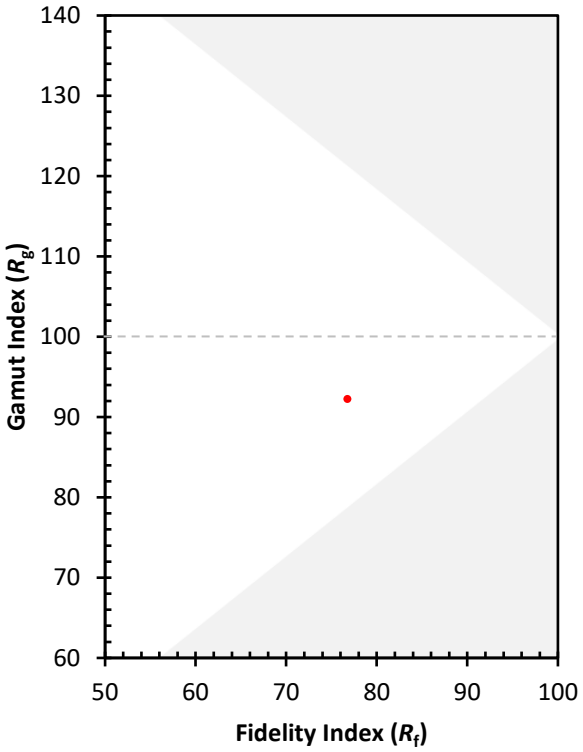


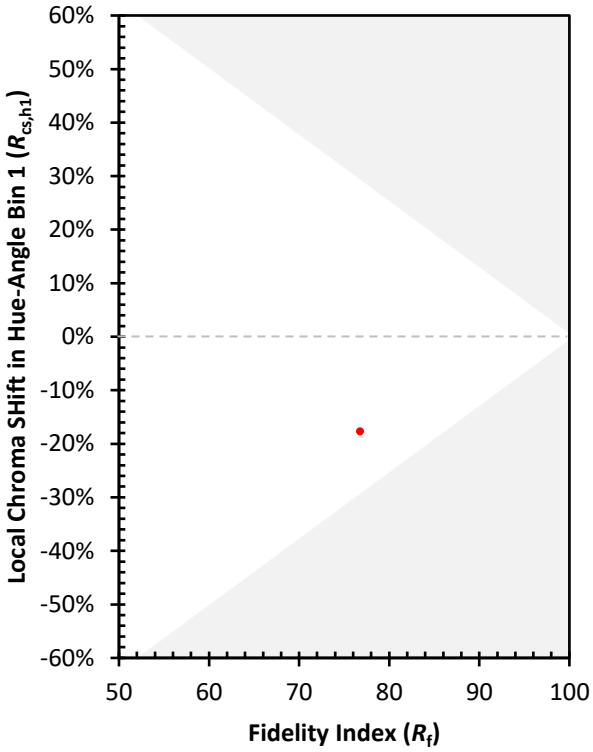


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Measure Comparisons





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