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: P981472

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

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981472
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-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10577.8 lumens
Efficiency:	N/A
Efficacy:	148.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - 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

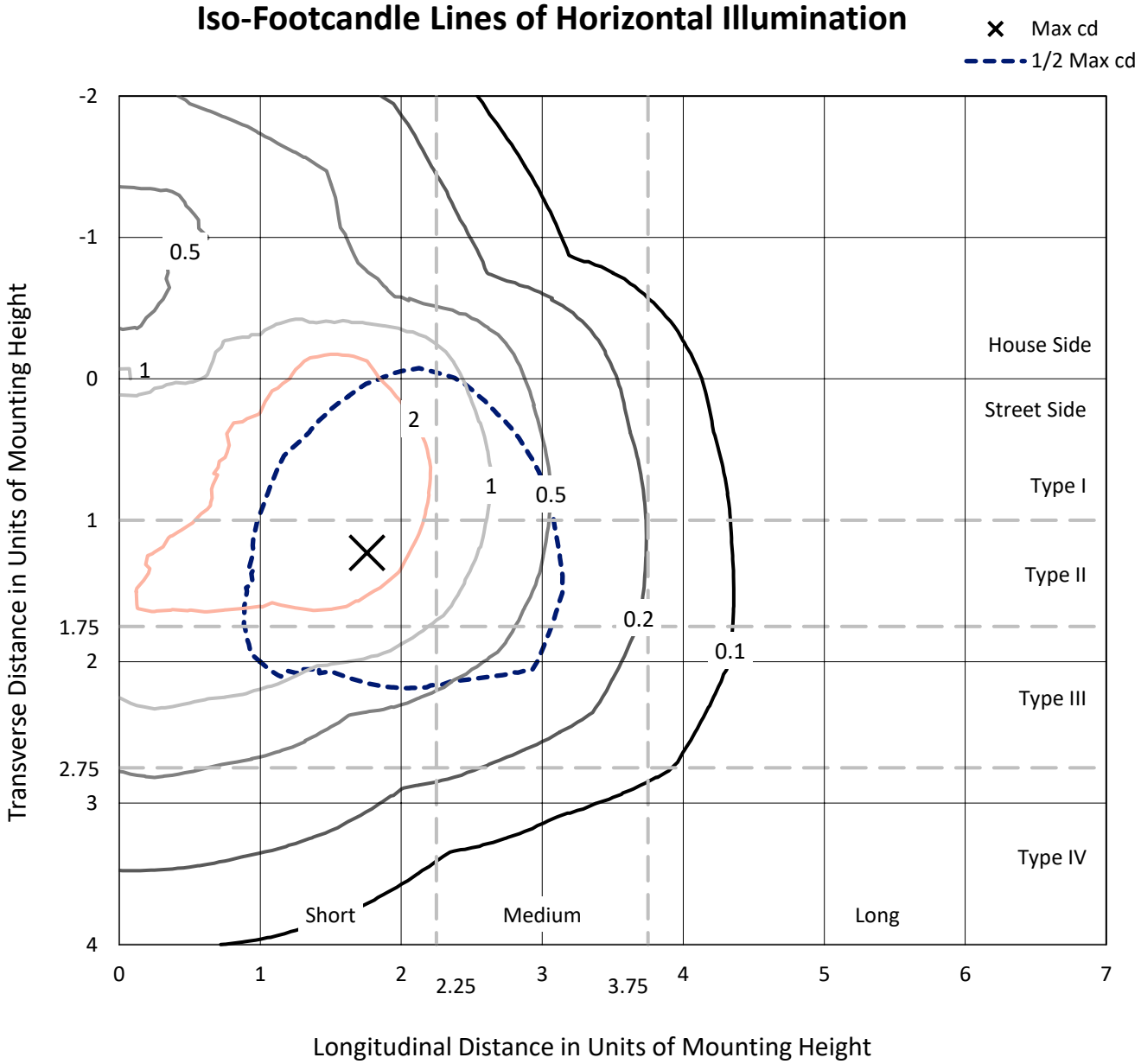


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Iso-Footcandle Lines of Horizontal Illumination



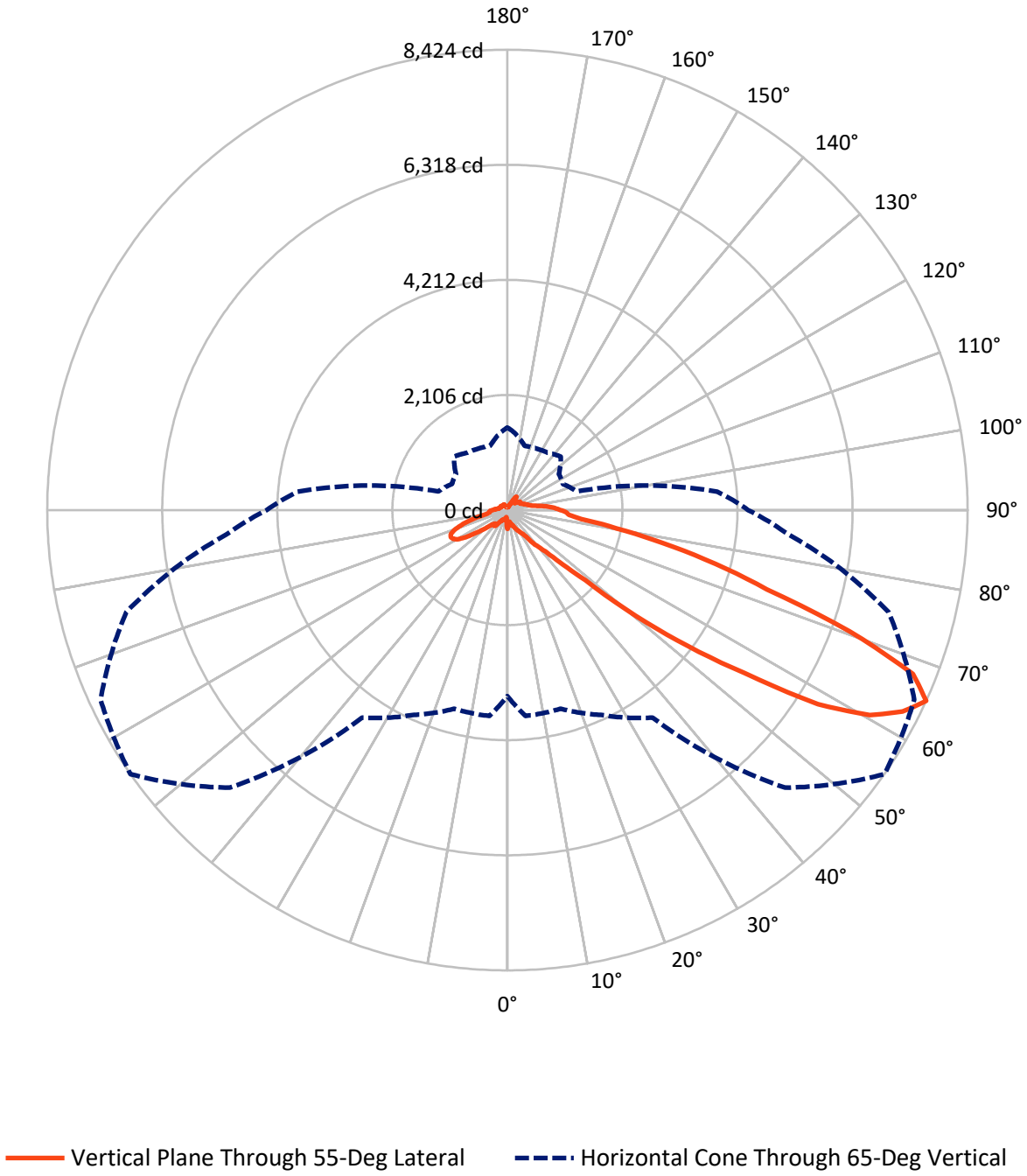
Based on 15 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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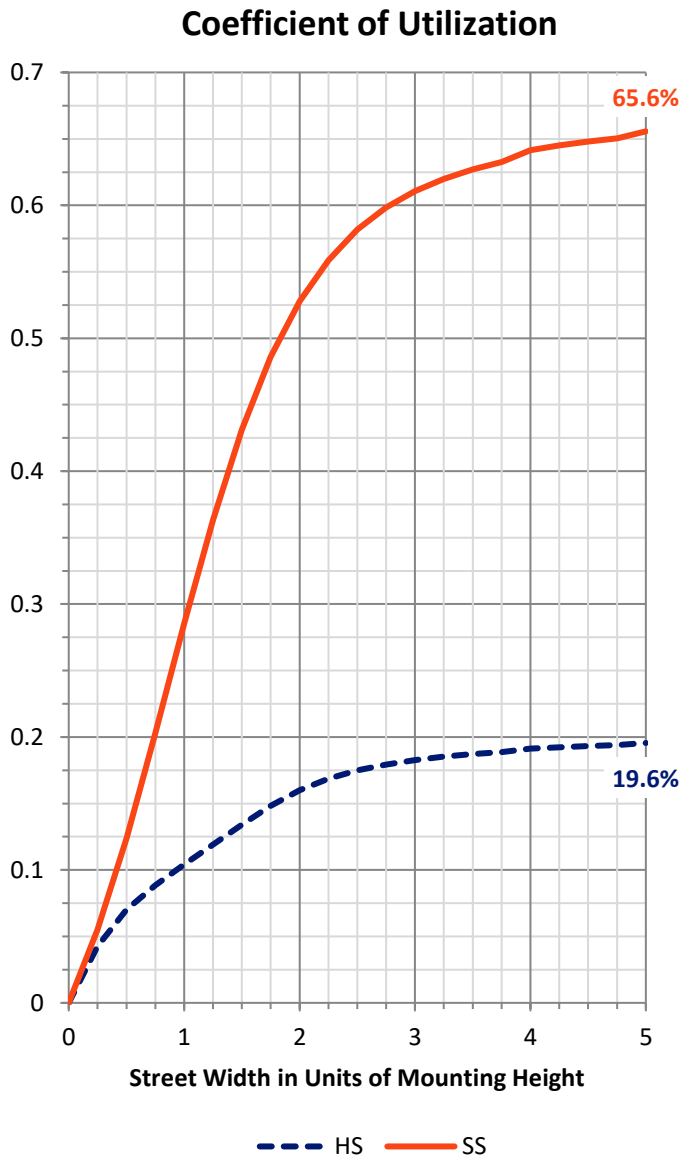
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2148.9	419.3	2568.2
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	7170.5	839.1	8009.6
	% Fixture	67.8	7.9	75.7
Total	Lumens	9319.3	1258.4	10577.8
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	0.2
10°-20°	64.7	0.6
20°-30°	132.2	1.3
30°-40°	286.7	2.7
40°-50°	695.9	6.6
50°-60°	2172.6	20.5
60°-70°	3452.1	32.6
70°-80°	1839.7	17.4
80°-90°	655.5	6.2
90°-100°	398.8	3.8
100°-110°	236.1	2.2
110°-120°	184.3	1.7
120°-130°	153.7	1.5
130°-140°	112.3	1.1
140°-150°	103.3	1.0
150°-160°	46.7	0.4
160°-170°	17.8	0.2
170°-180°	5.3	0.0
0°-90°	9319.3	88.1
0°-180°	10577.8	100.0



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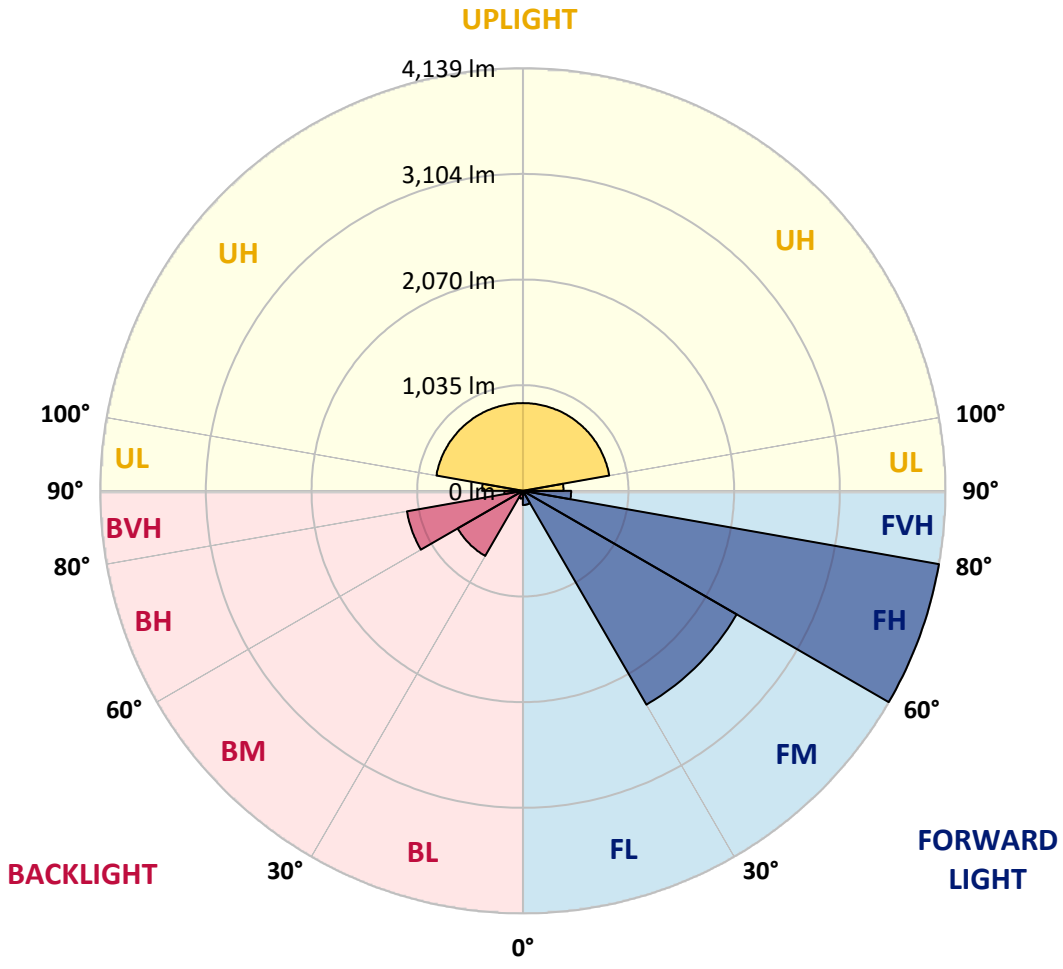
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	139.8	1.3			
FM	(30°-60°)	2418.7	22.9			
FH	(60°-80°)	4139.0	39.1			G2/5000
FVH	(80°-90°)	473.0	4.5			G3/500
BL	(0°-30°)	77.0	0.7	B0/110		
BM	(30°-60°)	736.5	7.0	B1/1000		
BH	(60°-80°)	1152.8	10.9	B3/2500		G3/2500
BVH	(80°-90°)	182.5	1.7			G2/225
UL	(90°-100°)	398.8	3.8		U3/500	
UH	(100°-180°)	859.6	8.1		U4/1000	

BUG Rating: B3-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	343.2	343.2	343.2	343.2	343.2	343.2	*343.2*	343.2	343.2	343.2	343.2
2.5°	204.9	206.3	229.3	247.2	269.4	263.0	*263.0*	311.7	343.9	391.2	386.9
5°	219.2	209.9	214.2	230.0	260.1	274.4	*258.7*	204.9	169.8	184.1	201.3
7.5°	240.0	237.9	232.9	217.8	206.3	237.2	*280.1*	249.3	188.4	158.3	151.9
10°	245.8	246.5	245.0	246.5	252.2	238.6	*214.2*	194.9	189.2	186.3	184.1
12.5°	297.3	296.6	299.5	295.9	282.3	265.8	*270.8*	256.5	228.6	209.2	204.2
15°	346.8	345.3	344.6	331.0	308.8	282.3	*269.4*	275.8	257.9	235.7	225.7
17.5°	366.8	366.8	352.5	333.2	319.6	300.9	*290.9*	283.7	270.1	255.8	243.6
20°	359.0	358.2	343.9	336.0	337.5	328.9	*320.3*	309.5	295.9	273.0	257.9
22.5°	354.7	354.7	349.6	347.5	359.7	356.8	*354.7*	341.0	323.1	289.5	270.1
25°	382.6	380.5	374.0	374.0	385.5	394.8	*398.4*	387.6	358.2	307.4	289.5
27.5°	409.8	409.1	400.5	402.7	409.8	428.5	*434.2*	429.2	389.1	322.4	306.7
30°	442.8	437.8	430.6	443.5	442.1	467.9	*475.7*	481.5	430.6	353.2	334.6
32.5°	477.9	475.0	469.3	485.8	491.5	515.2	*521.6*	550.3	487.2	408.4	389.1
35°	537.4	535.2	550.3	582.5	581.8	626.2	*609.0*	652.0	592.5	508.0	488.6
37.5°	805.3	793.2	776.0	745.1	743.0	804.6	*785.3*	818.9	735.1	616.2	594.7
40°	838.3	836.1	828.3	793.2	773.1	878.4	*891.3*	990.9	852.6	716.5	674.9
42.5°	818.9	821.8	927.1	949.3	908.5	1038.2	*1059.7*	1234.5	985.2	869.1	793.2
45°	987.3	991.6	1026.0	1041.8	1038.9	1364.9	*1417.9*	1632.2	1217.3	1083.3	942.9
47.5°	1130.6	1115.6	1177.9	1298.3	1380.7	1749.0	*1919.5*	2248.3	1635.7	1438.0	1177.9
50°	1553.4	1549.8	1700.2	1832.1	1913.7	2516.3	*3041.5*	3402.6	2397.4	2085.0	1643.6
52.5°	1839.9	1961.8	2105.8	2411.0	2484.8	3424.1	*4134.9*	4424.3	3313.1	2738.4	2244.0
55°	2130.8	2306.4	2467.6	2942.6	3187.7	4448.7	*5257.6*	5337.1	4351.2	3329.5	2831.6
57.5°	2671.8	2967.7	3071.6	3450.6	3808.9	5629.5	*6702.1*	6617.5	5421.7	4015.2	3487.9
60°	3161.2	3517.3	3487.2	3858.3	4319.0	6591.7	*7619.2*	7530.3	6401.1	4624.2	3992.3
62.5°	3325.2	3684.2	3643.4	4047.5	4636.4	7107.6	*8119.3*	7967.4	7042.4	5014.7	4271.7
65°	*3401.9*	*3783.1*	*3763.0*	*4139.9*	*4636.4*	*7182.1*	*8423.8*	*8216.0*	*7221.5*	*5165.2*	*4406.4*
67.5°	3334.5	3702.1	3715.0	4049.6	4363.4	6644.0	*8008.2*	7725.9	6773.0	4804.1	4165.7
70°	2914.7	3171.9	3139.7	3442.7	3473.5	5318.5	*6646.2*	6338.8	5502.6	4005.9	3447.0
72.5°	2408.1	2470.5	2443.9	2635.3	2671.1	3895.6	*4967.4*	4793.3	4109.1	2980.6	2633.8
75°	1920.2	1910.2	1964.6	2009.0	1971.8	2859.5	*3933.5*	3735.8	3040.1	2244.8	2027.0
77.5°	1328.4	1251.7	1395.0	1408.6	1349.9	1901.6	*2901.8*	2826.6	2178.8	1654.4	1493.9
80°	746.6	755.2	857.6	918.5	897.0	1210.2	*2019.1*	1969.6	1488.2	1156.4	1027.4
82.5°	576.1	601.9	649.9	695.7	665.6	925.7	*1365.6*	1369.2	1088.3	844.7	771.7
85°	633.4	647.0	653.4	654.9	631.2	860.5	*1132.1*	1117.0	924.3	707.2	684.2
87.5°	617.6	631.9	634.1	634.8	614.0	819.7	*1071.9*	1048.2	881.3	679.2	644.1
90°	529.5	553.8	556.7	575.3	551.0	732.3	*943.6*	920.0	794.6	612.6	579.6
92.5°	455.0	467.9	481.5	503.7	477.9	637.7	*844.7*	815.4	711.5	553.8	508.7
95°	416.3	423.4	434.9	443.5	413.4	541.7	*706.5*	675.7	577.5	445.7	405.5
97.5°	334.6	341.0	346.1	356.8	336.0	429.2	*548.1*	519.5	452.8	354.7	324.6
100°	285.9	290.2	295.9	303.1	285.9	359.7	*450.0*	437.1	376.9	299.5	280.1
102.5°	261.5	265.1	275.1	275.1	264.4	328.9	*402.0*	391.9	338.9	271.5	258.7
105°	252.2	252.9	261.5	257.9	250.8	306.7	*374.7*	361.8	317.4	257.9	242.9
107.5°	240.0	240.7	251.5	245.8	240.0	284.4	*339.6*	333.9	293.8	240.7	227.8
110°	227.8	230.0	243.6	238.6	235.0	267.3	*318.1*	307.4	280.9	232.9	222.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	218.5	220.0	232.9	229.3	226.4	255.8	*295.2*	295.2	274.4	232.9	218.5
115°	210.6	213.5	224.3	217.1	212.1	240.7	*272.3*	273.7	256.5	222.1	207.8
117.5°	197.0	203.5	209.2	212.1	206.3	230.7	*258.7*	257.2	247.9	214.2	204.2
120°	224.3	219.2	223.5	228.6	219.2	238.6	*262.2*	262.2	252.9	210.6	202.1
122.5°	234.3	227.1	231.4	226.4	225.7	250.8	*280.1*	282.3	263.0	217.1	195.6
125°	207.8	204.9	199.9	198.5	204.2	227.8	*254.4*	263.7	242.9	207.8	182.7
127.5°	177.7	174.1	167.7	171.2	182.0	205.6	*219.2*	224.3	215.7	192.7	174.1
130°	164.1	163.4	168.4	174.8	183.4	203.5	*207.8*	214.9	214.9	187.7	177.0
132.5°	149.7	150.5	166.2	188.4	194.9	199.2	*189.9*	203.5	209.9	191.3	179.1
135°	147.6	148.3	156.9	174.8	175.5	178.4	*179.1*	196.3	200.6	182.7	169.1
137.5°	161.2	161.2	154.8	158.3	166.2	187.7	*194.9*	208.5	204.9	172.7	152.6
140°	177.7	174.1	154.0	154.8	168.4	194.9	*204.2*	212.8	208.5	169.1	145.4
142.5°	146.9	148.3	151.9	165.5	181.3	241.5	*233.6*	255.1	246.5	179.1	141.9
145°	229.3	230.0	225.7	231.4	241.5	321.0	*296.6*	331.0	341.0	234.3	168.4
147.5°	250.8	253.6	245.8	240.7	269.4	293.8	*266.5*	295.2	314.5	245.8	180.6
150°	195.6	194.9	189.9	197.0	216.4	214.9	*200.6*	210.6	218.5	187.7	154.8
152.5°	139.0	136.8	134.0	134.7	157.6	151.9	*147.6*	156.2	156.2	144.0	124.0
155°	115.4	115.4	113.9	117.5	130.4	120.4	*116.8*	115.4	113.9	110.3	102.5
157.5°	97.4	99.6	97.4	101.7	110.3	101.0	*98.9*	96.7	97.4	97.4	95.3
160°	81.0	81.0	79.5	86.7	89.6	82.4	*78.8*	77.4	77.4	81.7	81.7
162.5°	68.1	68.1	68.8	71.6	73.8	68.8	*66.6*	66.6	68.8	75.2	75.2
165°	58.8	58.8	59.5	61.6	63.1	60.2	*58.8*	59.5	65.2	70.9	70.9
167.5°	53.7	53.7	53.7	54.5	55.2	53.7	*53.7*	56.6	61.6	65.2	65.2
170°	50.9	50.9	50.2	50.9	50.9	50.9	*53.7*	56.6	58.8	58.8	58.8
172.5°	51.6	51.6	50.9	51.6	51.6	50.9	*54.5*	58.0	56.6	55.9	55.9
175°	53.0	53.0	53.0	53.7	53.7	52.3	*51.6*	53.0	54.5	54.5	53.7
177.5°	53.0	53.0	52.3	53.0	52.3	50.9	*50.2*	49.4	49.4	48.7	48.7
180°	49.4	49.4	49.4	49.4	49.4	49.4	*49.4*	49.4	49.4	49.4	49.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2
2.5°	350.4	302.4	266.5	294.5	356.1	386.9	356.1	270.8	190.6	166.9
5°	209.9	204.2	184.1	179.8	187.7	180.6	200.6	189.9	150.5	151.9
7.5°	156.9	189.9	183.4	131.1	122.5	114.6	121.1	138.3	142.6	133.3
10°	182.0	164.1	143.3	133.3	145.4	156.9	149.0	129.7	111.8	106.8
12.5°	200.6	199.2	201.3	180.6	148.3	136.8	132.6	142.6	173.4	180.6
15°	215.7	199.2	184.1	179.8	158.3	146.9	141.1	138.3	132.6	128.3
17.5°	230.7	203.5	187.0	170.5	159.8	149.0	136.8	130.4	129.7	130.4
20°	240.7	215.7	196.3	177.7	164.1	149.7	137.6	131.8	131.8	131.8
22.5°	252.9	228.6	207.8	184.1	168.4	152.6	142.6	136.8	136.1	136.1
25°	273.0	245.8	221.4	195.6	178.4	164.1	150.5	143.3	141.1	140.4
27.5°	295.9	265.8	236.4	209.9	192.0	176.3	158.3	147.6	144.7	144.0
30°	325.3	290.9	253.6	225.7	203.5	188.4	166.9	154.0	148.3	147.6
32.5°	373.3	328.2	279.4	248.6	222.1	202.1	178.4	162.6	153.3	151.2
35°	465.7	410.5	337.5	293.0	250.8	219.2	188.4	167.7	158.3	156.9
37.5°	568.9	485.1	414.1	362.5	311.0	257.9	204.2	175.5	164.1	161.9
40°	613.3	533.8	458.6	377.6	366.1	324.6	250.8	194.9	172.0	168.4
42.5°	710.8	597.6	495.8	333.9	360.4	358.2	309.5	238.6	193.5	184.9
45°	836.9	679.9	551.7	356.8	363.3	350.4	317.4	275.8	235.0	225.7
47.5°	1042.5	760.2	569.6	401.2	408.4	377.6	332.5	290.9	261.5	257.9
50°	1488.9	995.9	635.5	485.8	508.7	437.8	381.9	346.1	311.0	304.5
52.5°	2024.1	1180.1	703.6	606.2	688.5	586.8	502.3	436.3	434.2	425.6
55°	2588.0	1251.0	793.9	738.7	867.0	778.8	696.4	636.2	667.1	669.9
57.5°	3221.3	1326.9	924.3	912.1	1083.3	942.9	873.4	889.9	1108.4	1193.7
60°	3643.4	1389.3	1036.8	1055.4	1281.1	1144.2	1091.9	1128.5	1499.6	1655.1
62.5°	3831.1	1357.7	1091.9	1124.2	1366.3	1266.8	1258.2	1277.5	1592.0	1737.5
65°	*3856.9*	*1311.2*	*1122.0*	*1150.0*	*1381.4*	*1279.7*	*1243.1*	*1215.9*	*1425.1*	*1510.4*
67.5°	3540.2	1212.3	1098.4	1127.8	1313.3	1191.5	1100.5	1038.9	1160.0	1168.6
70°	2881.0	1082.6	1018.1	1028.9	1122.0	997.4	911.4	858.4	886.3	874.8
72.5°	2234.0	954.4	907.1	882.0	909.9	803.2	701.4	674.2	700.7	688.5
75°	1697.4	852.6	800.3	715.8	761.6	618.3	505.1	480.8	492.2	475.7
77.5°	1248.1	687.1	626.2	529.5	592.5	448.5	341.0	316.0	320.3	304.5
80°	910.7	508.0	457.8	379.7	427.0	318.8	246.5	242.2	241.5	231.4
82.5°	703.6	403.4	366.1	326.7	334.6	281.6	233.6	226.4	226.4	211.4
85°	652.7	390.5	352.5	324.6	326.7	273.0	222.1	217.8	220.0	204.2
87.5°	609.7	381.9	351.1	317.4	300.9	247.2	199.9	204.9	206.3	192.7
90°	523.0	339.6	311.7	279.4	260.1	209.9	179.1	188.4	189.9	177.7
92.5°	458.6	291.6	268.0	242.9	234.3	197.0	172.0	179.1	179.1	168.4
95°	365.4	238.6	227.8	215.7	213.5	184.1	160.5	164.1	162.6	153.3
97.5°	297.3	207.1	197.8	186.3	179.1	157.6	141.1	144.7	145.4	139.0
100°	261.5	191.3	178.4	165.5	158.3	141.9	129.0	135.4	139.7	134.0
102.5°	244.3	182.7	168.4	154.8	149.0	134.0	121.8	127.5	133.3	128.3
105°	232.1	176.3	161.2	149.0	141.9	126.8	114.6	116.1	123.2	120.4
107.5°	216.4	176.3	156.9	144.7	136.1	122.5	108.2	106.8	111.1	110.3
110°	210.6	176.3	154.0	141.9	132.6	120.4	107.5	101.7	103.9	103.9

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

Scaled Data Report

REPORT NUMBER: P981472
CATALOG NUMBER: FFX-CLB-70-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	205.6	174.8	151.2	136.8	129.0	118.9	106.0	97.4	99.6	101.0
115°	194.2	161.2	142.6	127.5	119.7	108.9	100.3	93.9	94.6	96.0
117.5°	187.7	149.0	138.3	124.7	118.9	112.5	104.6	92.4	92.4	93.9
120°	187.7	146.9	141.9	136.8	134.0	123.2	110.3	92.4	90.3	90.3
122.5°	184.9	163.4	154.8	143.3	135.4	121.1	105.3	90.3	88.8	88.8
125°	169.8	156.2	142.6	129.0	119.7	108.2	98.9	91.0	88.1	88.1
127.5°	161.9	140.4	127.5	116.8	110.3	104.6	98.9	91.0	87.4	86.7
130°	164.1	141.9	125.4	116.8	111.8	106.0	99.6	89.6	83.8	83.1
132.5°	165.5	136.8	121.1	113.9	110.3	106.0	97.4	84.5	78.1	78.1
135°	149.7	123.2	116.1	111.1	108.9	105.3	92.4	80.2	75.2	74.5
137.5°	136.1	119.7	114.6	109.6	106.0	101.0	91.0	78.8	72.4	71.6
140°	130.4	116.8	109.6	100.3	96.0	86.0	78.8	71.6	69.5	68.8
142.5°	124.0	109.6	101.0	93.1	91.0	87.4	83.1	71.6	64.5	64.5
145°	148.3	131.8	121.8	113.9	103.9	96.7	83.1	68.8	59.5	58.0
147.5°	155.5	140.4	130.4	119.7	101.0	85.3	70.2	60.2	56.6	55.2
150°	136.1	123.2	112.5	101.0	84.5	73.8	63.8	57.3	55.9	55.9
152.5°	108.2	101.0	89.6	81.7	70.9	64.5	58.8	55.2	53.7	53.7
155°	89.6	83.8	77.4	70.9	65.2	60.9	57.3	54.5	53.0	53.0
157.5°	86.7	78.1	72.4	66.6	63.1	58.8	55.9	53.0	52.3	51.6
160°	78.8	68.8	63.8	60.2	59.5	58.0	55.9	53.7	53.0	52.3
162.5°	73.1	63.1	59.5	57.3	59.5	60.9	59.5	56.6	54.5	53.7
165°	68.8	59.5	56.6	56.6	60.9	63.1	59.5	56.6	56.6	55.9
167.5°	63.8	60.9	57.3	56.6	60.2	64.5	65.2	60.2	58.0	57.3
170°	59.5	60.2	60.2	58.0	58.8	62.3	63.8	62.3	59.5	58.8
172.5°	56.6	58.0	60.9	59.5	59.5	60.9	62.3	60.9	58.8	58.0
175°	53.7	54.5	53.0	53.7	55.9	58.0	57.3	56.6	55.9	55.9
177.5°	48.7	48.7	49.4	49.4	50.2	52.3	53.0	53.0	54.5	54.5
180°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4

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

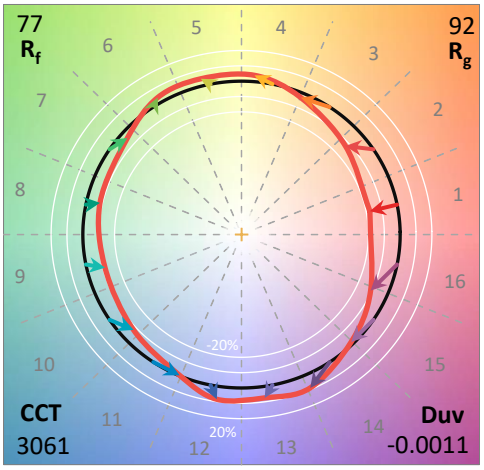
Test Information

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

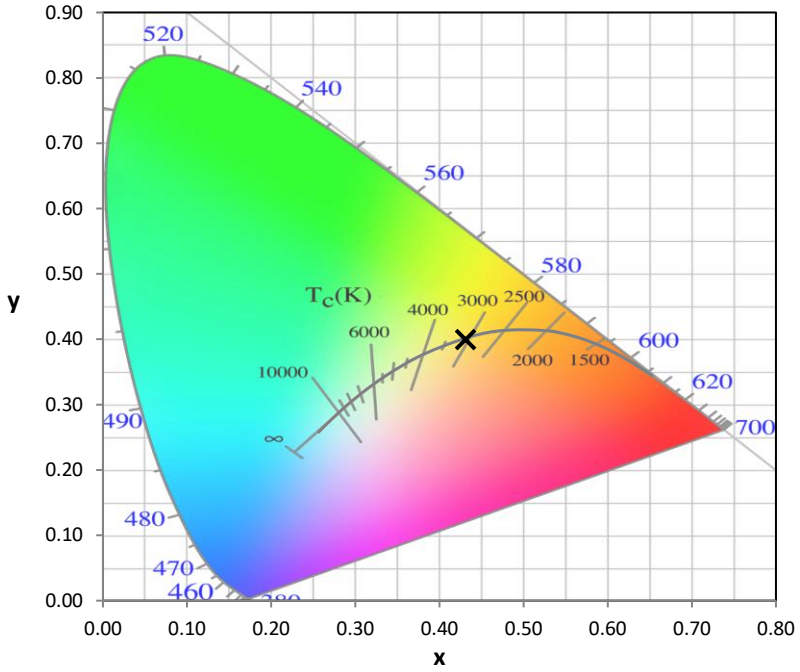
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

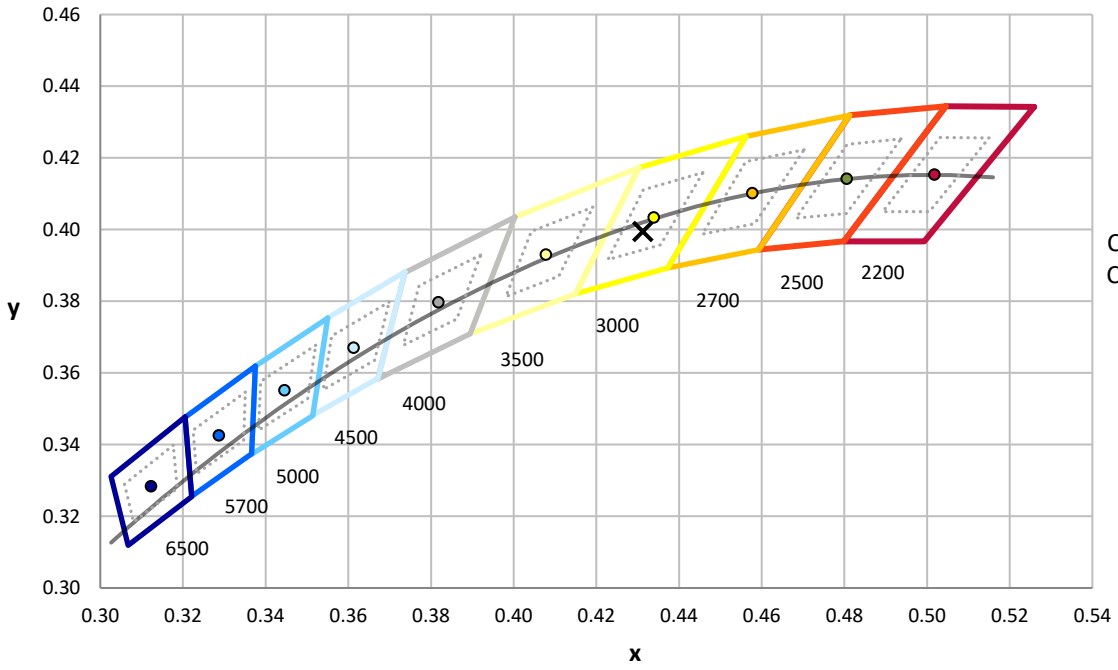
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

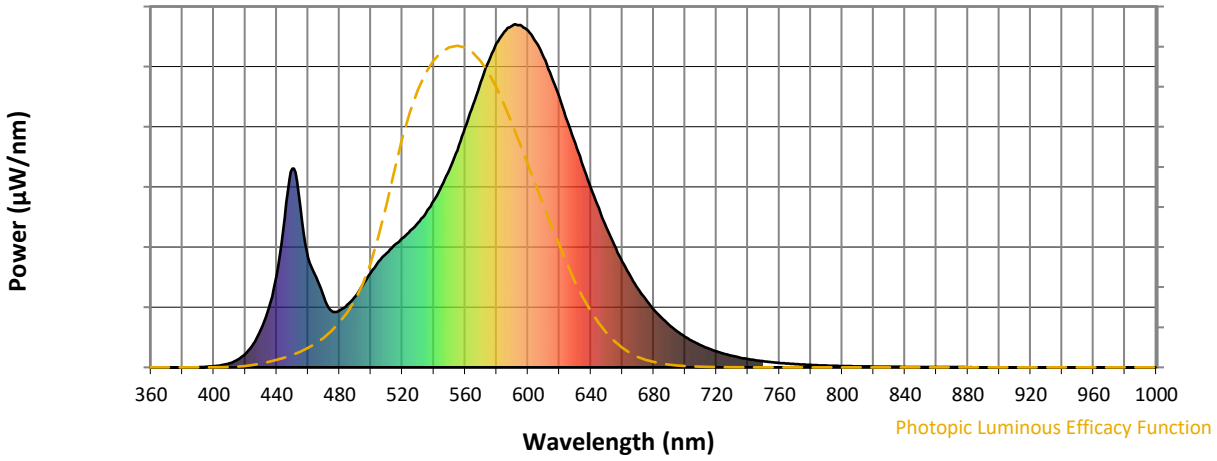


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

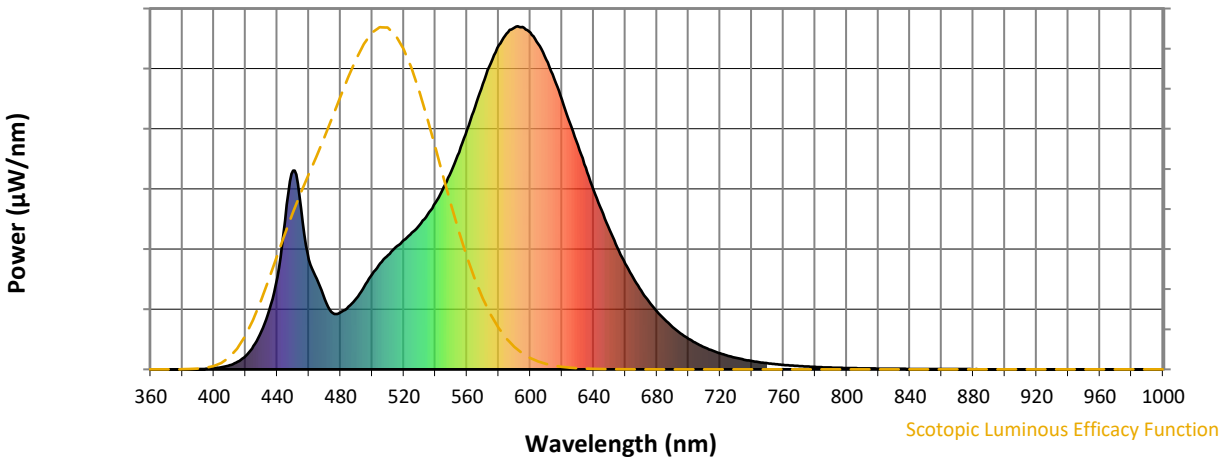


Photopic Lumens: NR

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

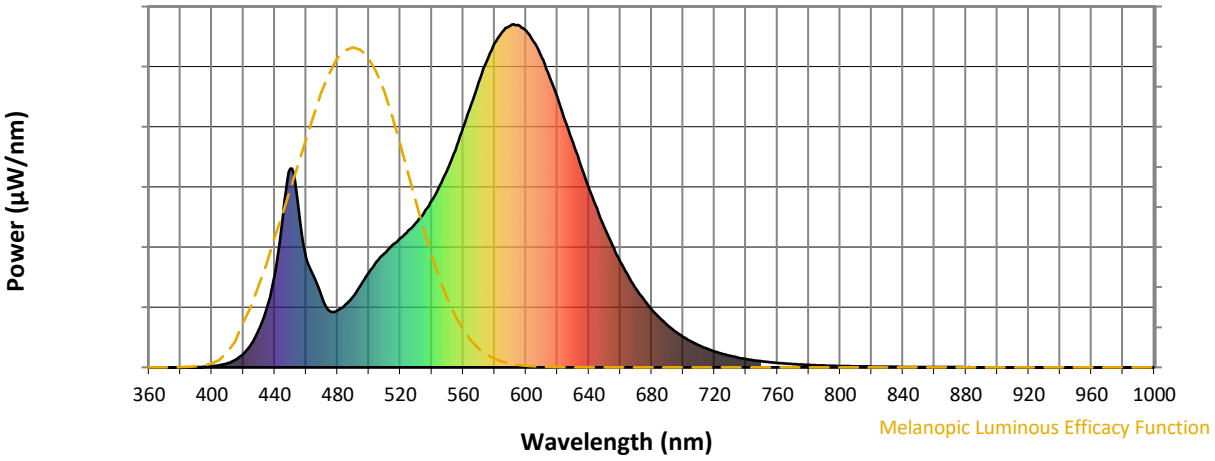


Scotopic Lumens: NR **S/P: 1.29**

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			

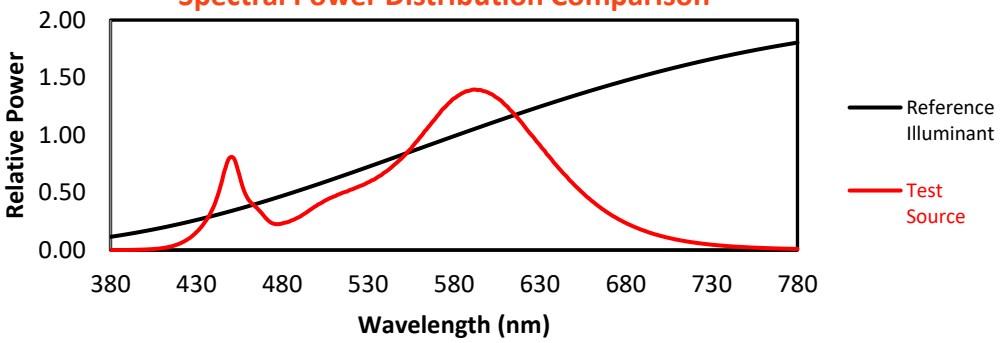
REPORT NUMBER: SP1-2501-332-4

TM-30-18

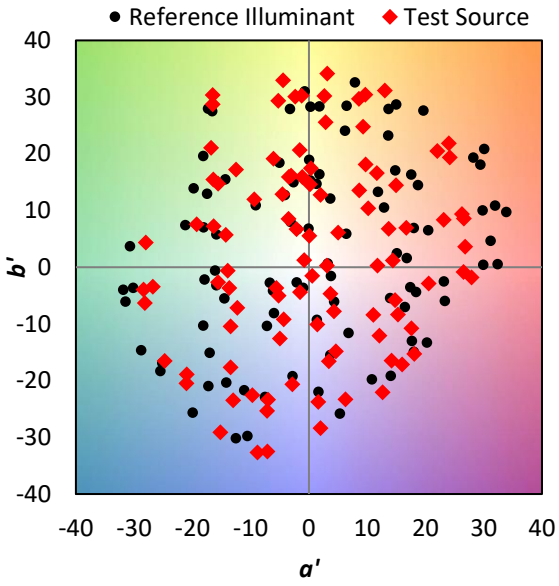
Summary

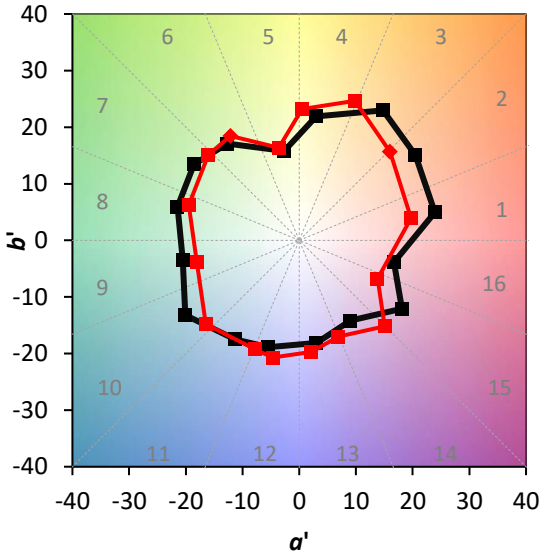
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

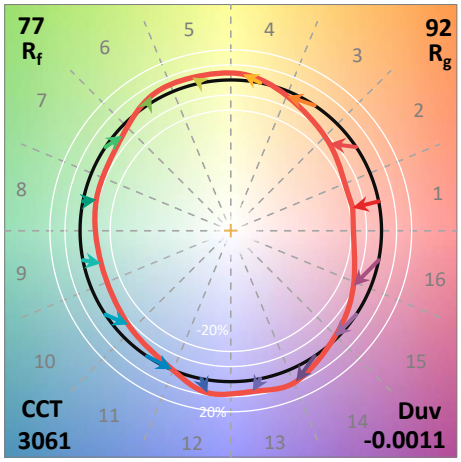
Spectral Power Distribution Comparison

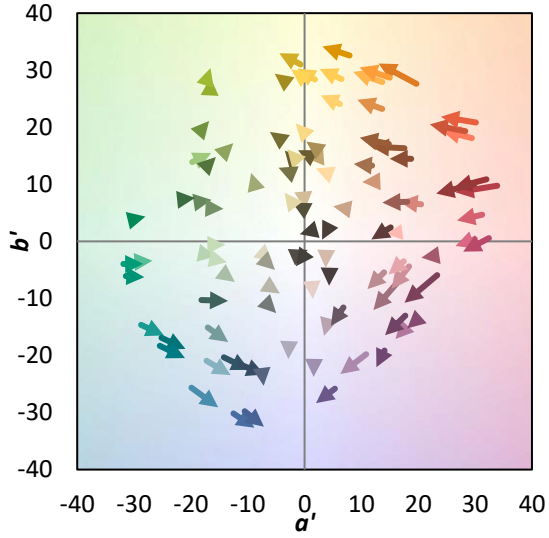


Color Vector Graphics







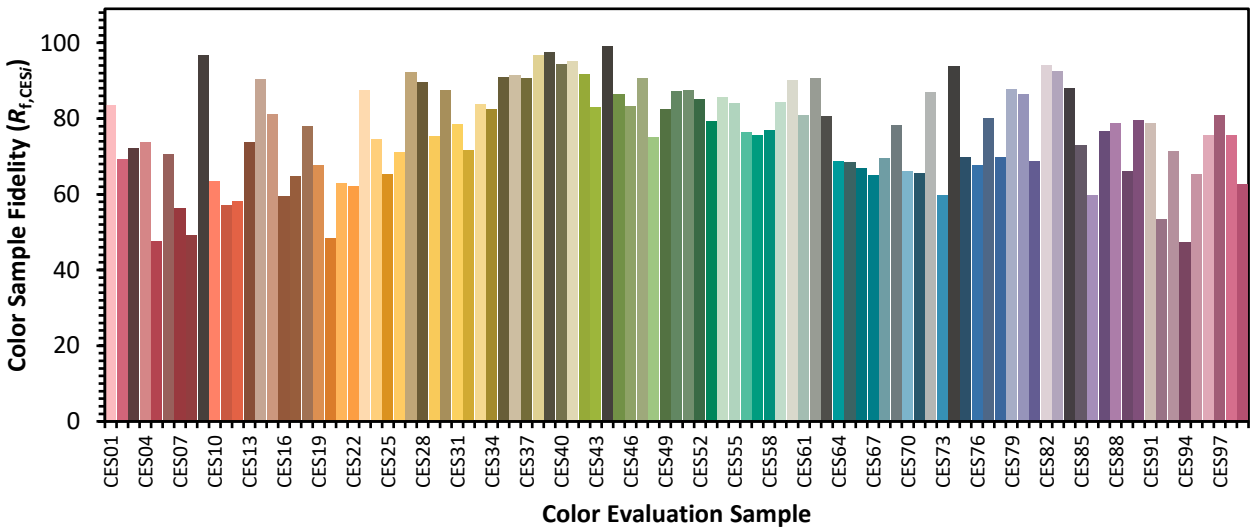


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

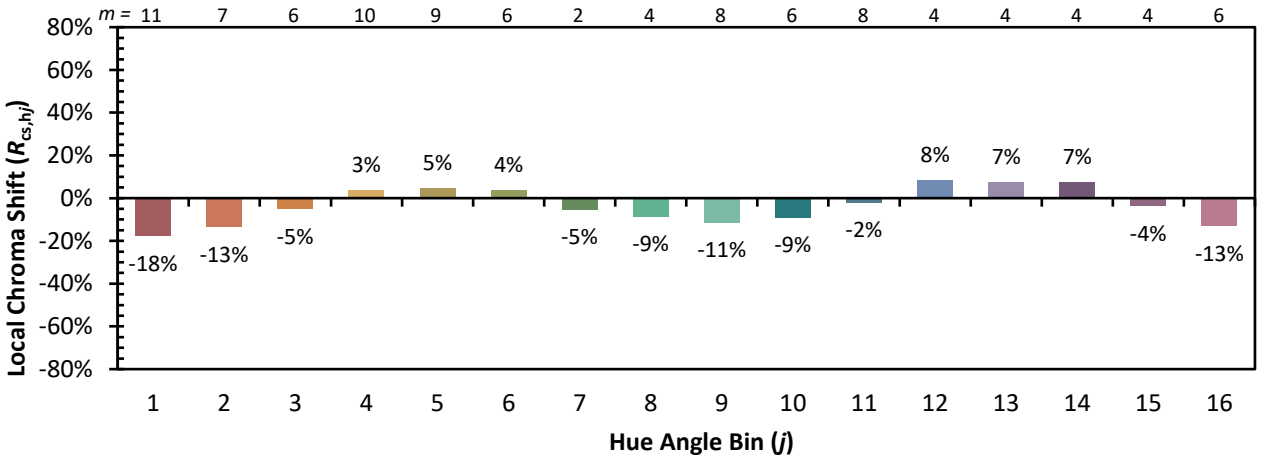
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

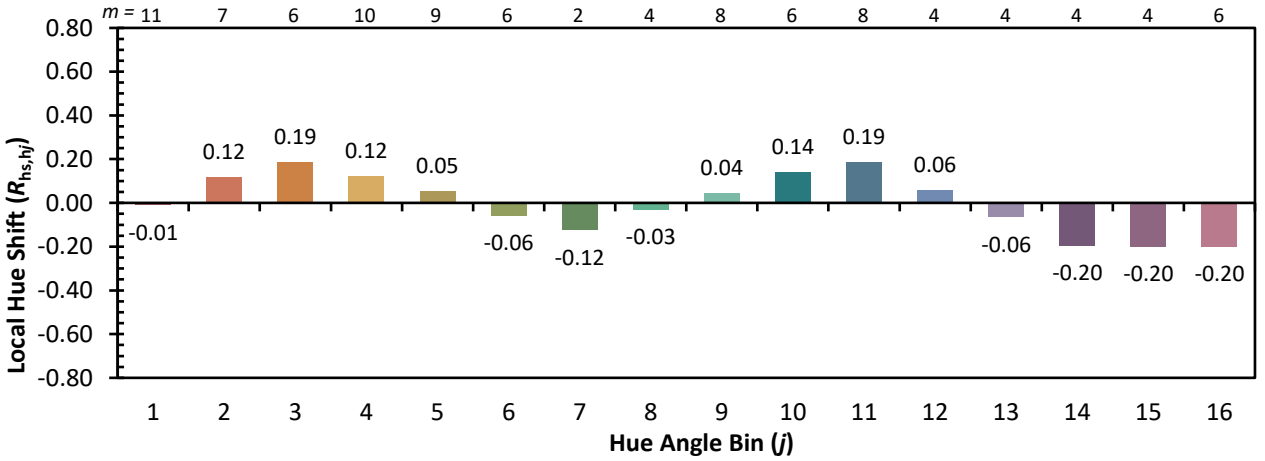


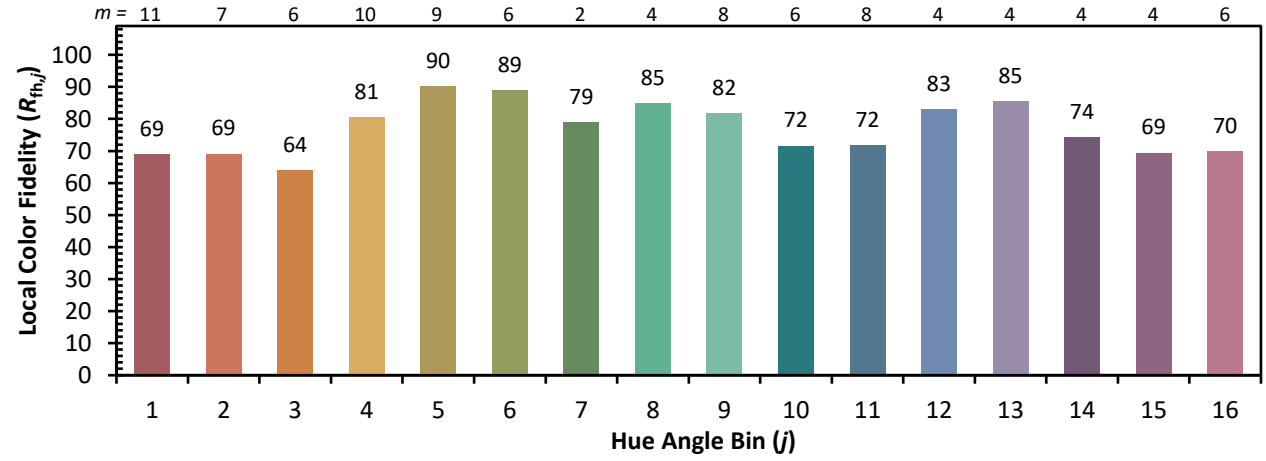
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Color Rendition by Hue-Angle Bin



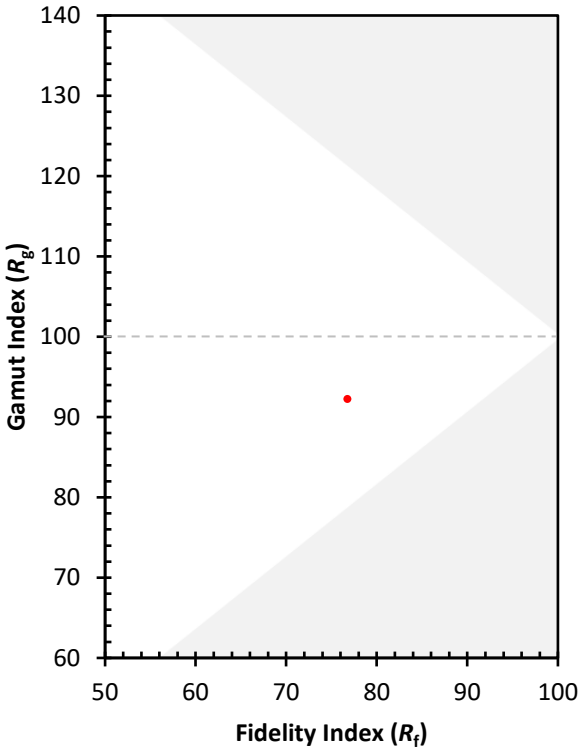


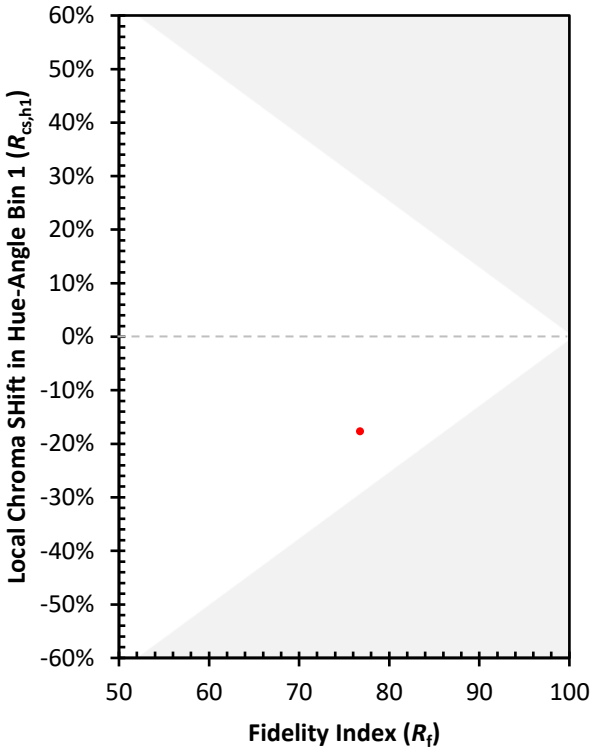


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Measure Comparisons





(END OF REPORT)