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: P981418

Luminaire Tested: **FFX-CLB-70-727-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981418
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-727-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10309.6 lumens
Efficiency:	N/A
Efficacy:	144.8 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

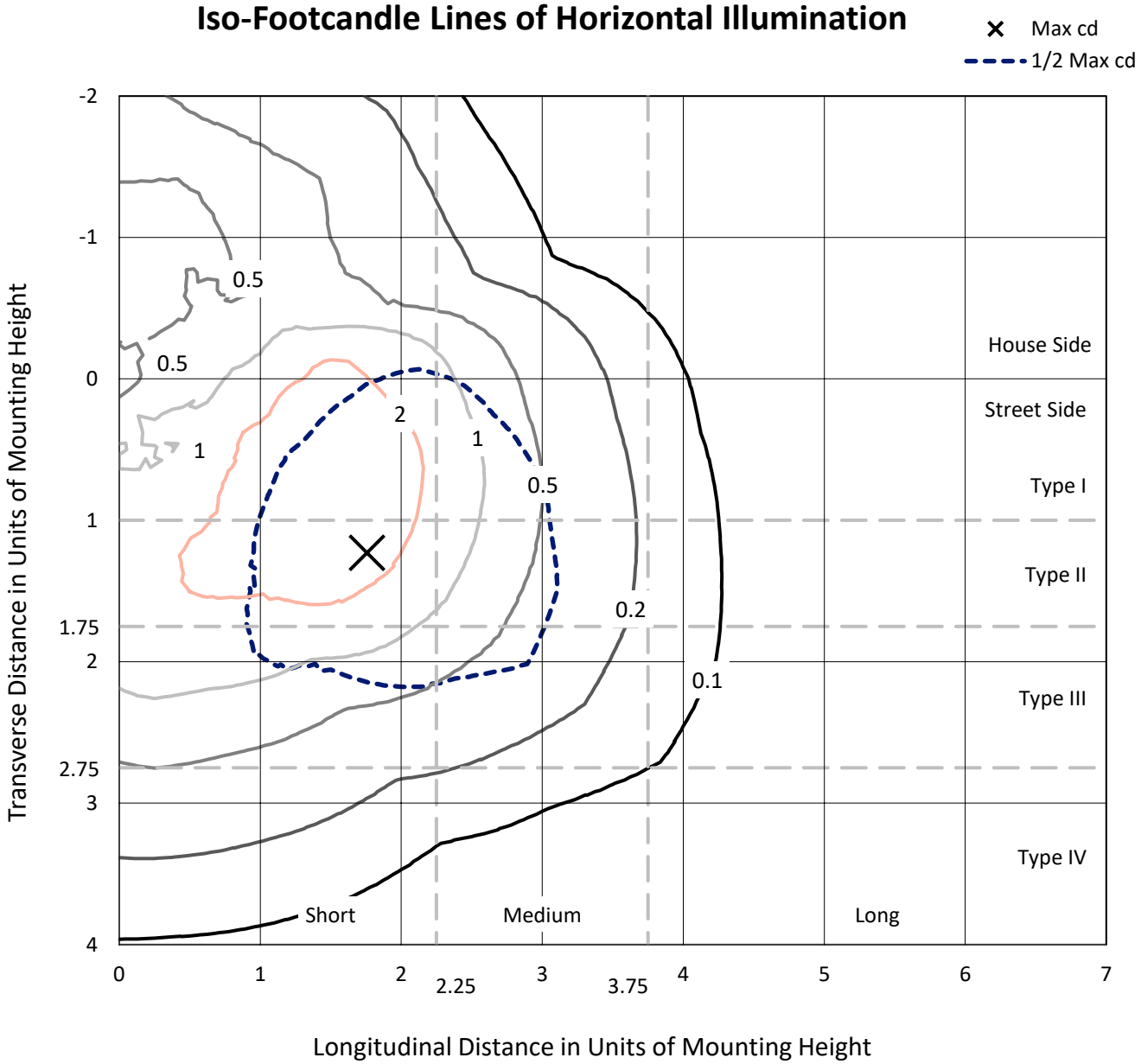


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Iso-Footcandle Lines of Horizontal Illumination



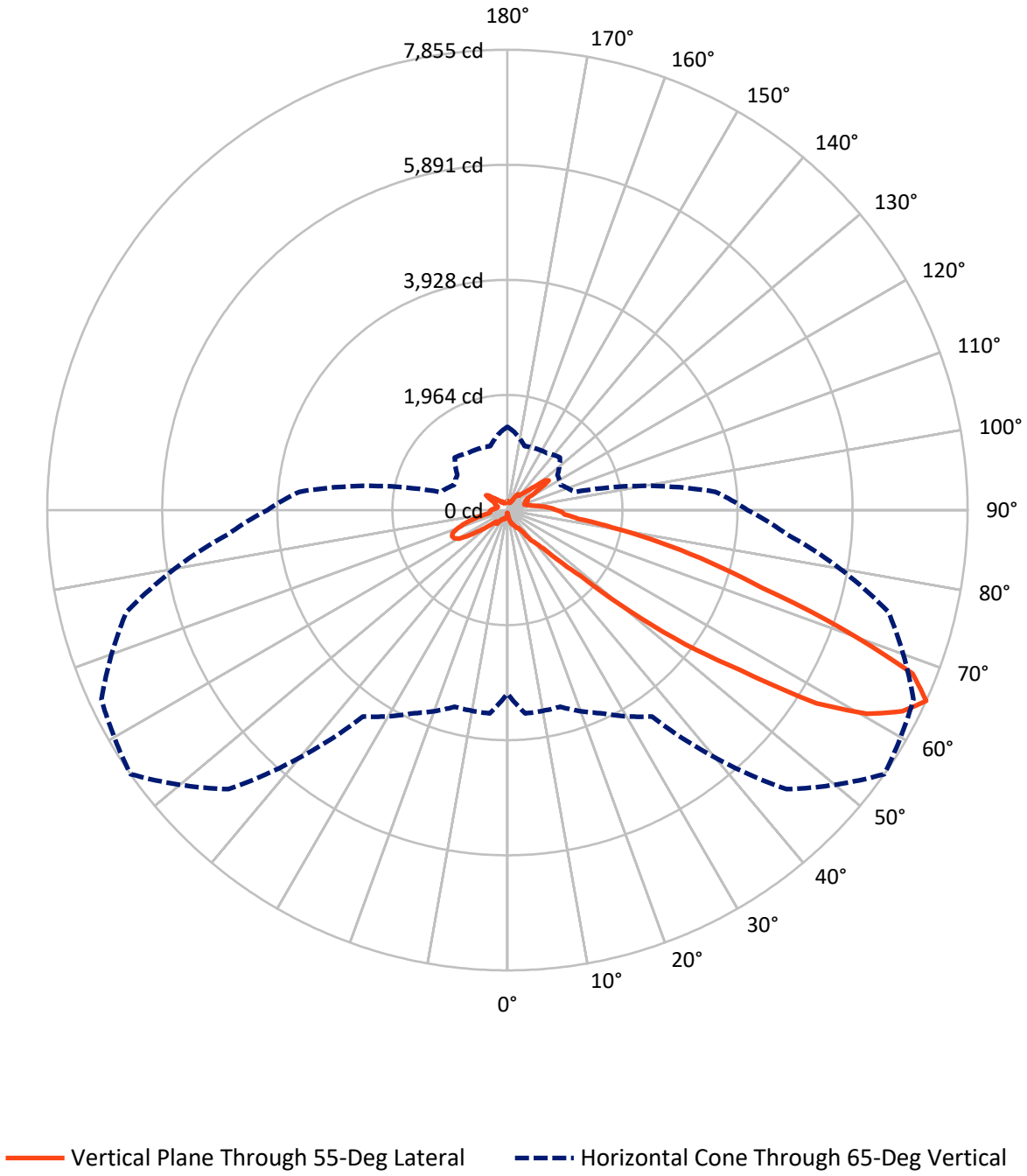
Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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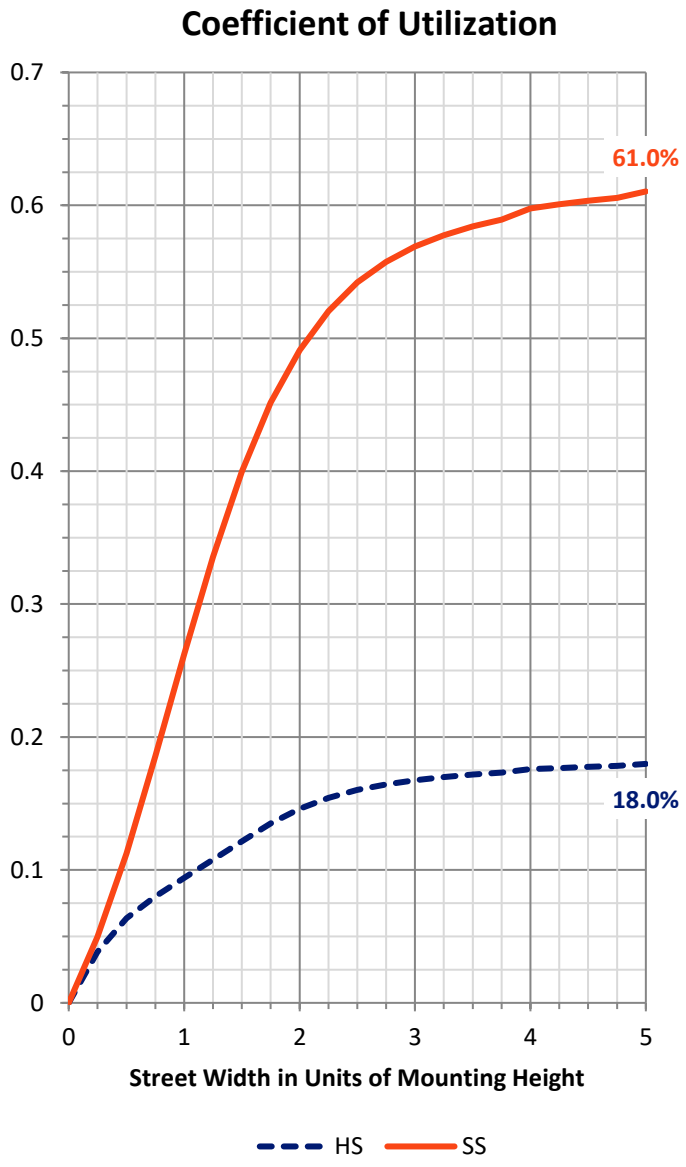
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1932.5	692.3	2624.8
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	6497.2	1187.7	7684.8
	% Fixture	63.0	11.5	74.5
Total	Lumens	8429.6	1880.0	10309.6
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	0.1
10°-20°	52.4	0.5
20°-30°	107.6	1.0
30°-40°	225.4	2.2
40°-50°	595.2	5.8
50°-60°	1980.6	19.2
60°-70°	3194.8	31.0
70°-80°	1675.9	16.3
80°-90°	588.1	5.7
90°-100°	379.7	3.7
100°-110°	246.2	2.4
110°-120°	270.0	2.6
120°-130°	454.2	4.4
130°-140°	266.1	2.6
140°-150°	142.4	1.4
150°-160°	70.7	0.7
160°-170°	37.2	0.4
170°-180°	13.5	0.1
0°-90°	8429.6	81.8
0°-180°	10309.6	100.0



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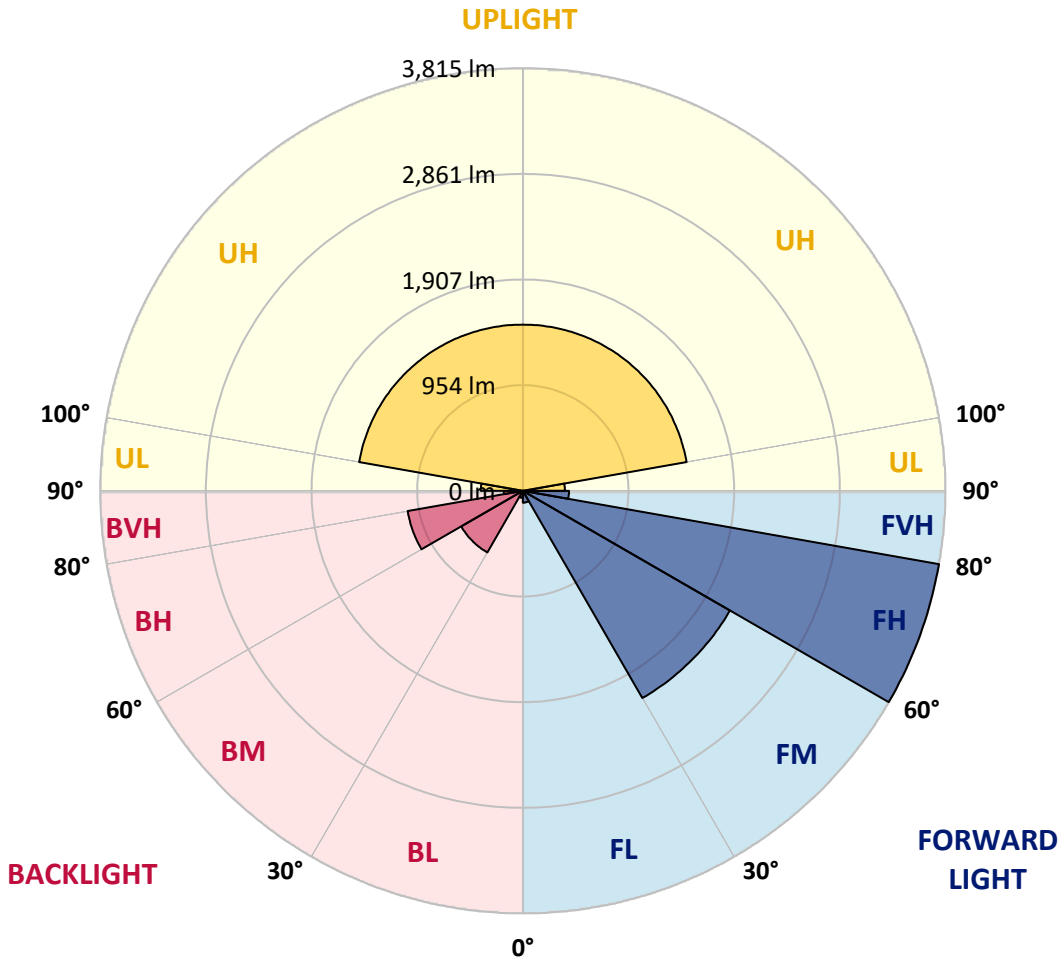
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	107.0	1.0			
FM	(30°-60°)	2159.1	20.9			
FH	(60°-80°)	3814.8	37.0			G2/5000
FVH	(80°-90°)	416.4	4.0			G3/500
BL	(0°-30°)	62.6	0.6	B0/110		
BM	(30°-60°)	642.1	6.2	B1/1000		
BH	(60°-80°)	1056.0	10.2	B3/2500		G3/2500
BVH	(80°-90°)	171.7	1.7			G2/225
UL	(90°-100°)	379.7	3.7		U3/500	
UH	(100°-180°)	1500.3	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°	58.4	58.4	58.4	58.4	58.4	58.4	*58.4*	58.4	58.4	58.4	58.4
2.5°	58.4	59.7	63.1	64.5	65.2	63.8	*61.1*	63.8	63.8	63.8	63.1
5°	84.9	84.9	84.9	86.9	87.6	88.9	*87.6*	84.2	81.5	78.8	78.1
7.5°	118.8	120.2	120.8	120.8	120.8	123.6	*126.3*	120.2	114.7	109.3	107.9
10°	170.4	167.0	163.6	165.0	162.3	156.8	*159.5*	154.8	142.6	138.5	138.5
12.5°	217.9	217.2	218.6	211.1	207.1	195.5	*196.9*	194.2	185.3	171.1	166.3
15°	244.4	246.4	245.8	248.5	242.4	226.1	*222.0*	223.4	215.2	201.6	194.8
17.5°	258.0	258.0	258.7	262.0	262.0	246.4	*239.6*	236.3	229.5	217.9	209.1
20°	264.8	264.8	264.1	268.8	278.3	269.5	*260.0*	254.6	248.5	230.1	216.6
22.5°	283.8	282.4	280.4	281.7	296.0	293.3	*285.8*	277.7	268.8	241.0	224.0
25°	303.5	304.1	298.0	300.1	314.3	318.4	*312.3*	304.1	294.0	251.9	234.9
27.5°	325.9	325.2	317.0	319.8	327.2	342.2	*334.7*	330.6	313.6	260.7	244.4
30°	346.2	342.8	334.7	341.5	341.5	365.2	*358.4*	360.5	339.4	277.0	259.3
32.5°	361.2	360.5	355.7	364.6	359.8	390.4	*388.3*	405.3	374.1	308.9	292.6
35°	395.1	395.8	415.5	432.4	424.3	469.1	*478.6*	500.3	462.3	388.3	370.7
37.5°	639.5	631.4	604.2	573.0	577.0	660.6	*649.0*	660.6	602.2	495.6	467.7
40°	673.5	675.5	644.3	620.5	617.1	723.7	*741.3*	835.0	712.8	594.0	539.0
42.5°	655.8	662.6	748.1	778.7	751.5	887.3	*892.7*	1073.3	831.6	732.5	659.9
45°	831.6	833.0	850.6	870.3	873.7	1211.8	*1230.8*	1430.4	1057.7	922.6	799.7
47.5°	946.4	957.2	981.7	1116.1	1187.4	1549.2	*1676.2*	1993.2	1408.7	1258.0	1015.6
50°	1338.1	1367.9	1488.8	1604.2	1715.5	2297.3	*2724.4*	3102.5	2116.1	1843.8	1475.9
52.5°	1630.7	1737.9	1873.0	2151.4	2268.8	3139.8	*3810.6*	4044.8	2964.0	2499.0	2010.8
55°	1884.6	2081.5	2227.4	2682.9	2906.3	4093.7	*4809.2*	4843.1	3977.6	3050.2	2578.4
57.5°	2407.3	2694.5	2789.5	3179.2	3490.1	5229.4	*6223.3*	6056.3	5012.2	3678.2	3184.0
60°	2899.5	3230.1	3194.8	3553.9	3965.3	6206.3	*7060.4*	6975.5	5981.6	4272.9	3713.5
62.5°	3059.7	3395.1	3365.2	3742.7	4296.0	6661.9	*7562.7*	7422.2	6553.9	4644.9	3979.6
65°	*3129.6*	*3483.3*	*3475.2*	*3828.2*	*4300.0*	*6734.5*	*7855.3*	*7646.2*	*6733.8*	*4794.9*	*4096.4*
67.5°	3069.9	3406.6	3403.2	3728.4	3986.4	6207.7	*7459.6*	7151.3	6290.5	4441.9	3844.5
70°	2649.0	2883.2	2869.0	3068.5	3203.6	4934.1	*6053.6*	5820.7	5076.7	3650.3	3184.6
72.5°	2160.2	2229.4	2259.3	2373.4	2409.4	3611.0	*4539.7*	4354.3	3785.4	2733.9	2414.8
75°	1725.0	1728.4	1759.7	1799.7	1787.5	2656.5	*3575.7*	3460.9	2791.6	2039.4	1831.6
77.5°	1141.9	1133.1	1270.2	1286.5	1208.4	1692.5	*2670.0*	2589.3	1997.9	1486.1	1339.4
80°	655.1	657.8	751.5	810.6	779.4	1075.3	*1829.6*	1811.9	1372.0	1040.0	919.9
82.5°	488.8	511.9	562.1	593.3	581.1	808.5	*1217.2*	1250.5	974.9	748.1	683.6
85°	544.5	557.4	562.8	564.8	549.9	756.3	*983.0*	981.0	819.4	628.0	606.2
87.5°	530.2	541.1	545.8	548.5	533.6	723.0	*928.7*	915.1	786.1	603.5	571.6
90°	446.0	471.1	470.5	494.2	477.3	635.4	*814.7*	805.8	713.5	556.0	518.7
92.5°	374.1	388.3	397.8	430.4	415.5	559.4	*732.5*	712.1	638.8	505.8	465.7
95°	349.6	362.5	370.0	388.3	370.0	483.4	*617.1*	598.8	530.2	421.6	382.9
97.5°	294.6	298.7	305.5	317.7	305.5	391.7	*499.7*	482.0	425.7	344.2	317.0
100°	249.8	253.9	262.7	271.6	265.4	335.4	*418.2*	408.7	365.9	299.4	281.1
102.5°	236.3	239.0	250.5	255.9	248.5	308.2	*369.3*	369.3	331.3	276.3	261.4
105°	225.4	228.8	237.6	239.6	234.2	283.8	*340.8*	337.4	307.5	258.7	244.4
107.5°	214.5	218.6	226.1	222.7	220.0	261.4	*306.2*	311.6	285.8	245.8	236.3
110°	226.1	227.4	233.5	228.1	232.9	260.0	*307.5*	308.9	301.4	268.2	258.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	307.5	300.1	313.0	292.6	308.2	327.2	*357.1*	368.0	359.1	321.1	312.3
115°	336.7	342.2	355.7	335.4	345.6	368.6	*382.9*	384.9	374.7	350.3	346.9
117.5°	262.7	289.9	275.6	287.8	291.9	323.8	*356.4*	365.9	356.4	322.5	343.5
120°	336.0	357.8	308.9	294.0	314.3	370.0	*399.9*	408.0	382.2	382.9	395.8
122.5°	557.4	569.6	600.1	615.7	592.0	625.9	*636.1*	643.6	604.2	558.0	535.0
125°	845.9	837.1	833.0	828.9	822.8	858.8	*865.6*	846.6	807.2	742.7	706.7
127.5°	765.1	772.6	784.1	782.8	777.3	805.2	*822.1*	810.6	799.7	737.9	716.9
130°	550.6	554.0	574.3	611.0	606.9	629.3	*631.4*	642.9	661.2	634.1	612.4
132.5°	456.2	459.6	490.2	506.4	507.8	508.5	*499.0*	525.5	544.5	517.3	499.0
135°	397.8	397.8	404.6	398.5	400.5	418.2	*426.3*	450.1	454.9	442.0	423.6
137.5°	351.7	353.0	338.8	327.2	329.3	361.2	*379.5*	397.8	388.3	361.8	348.9
140°	306.2	298.7	279.0	275.6	290.6	321.1	*332.0*	344.9	347.6	313.6	296.7
142.5°	225.4	222.7	231.5	249.8	258.0	308.9	*300.7*	325.2	326.5	269.5	241.7
145°	251.9	251.2	250.5	253.9	272.9	346.9	*327.2*	358.4	373.4	286.5	234.2
147.5°	284.5	283.8	277.7	270.2	298.7	317.0	*299.4*	326.5	342.8	284.5	226.7
150°	220.0	221.3	217.9	215.9	247.1	243.7	*239.6*	247.1	253.9	235.6	206.4
152.5°	171.1	168.4	166.3	167.0	192.8	188.7	*188.7*	194.2	194.8	188.1	173.1
155°	154.1	153.4	152.1	154.8	170.4	166.3	*162.9*	161.6	158.2	156.1	154.1
157.5°	144.6	143.2	143.2	147.3	158.2	151.4	*150.0*	148.7	146.6	146.6	147.3
160°	135.1	134.4	134.4	140.5	143.9	137.8	*136.5*	135.8	135.1	136.5	137.8
162.5°	129.7	129.7	129.7	133.7	133.7	129.7	*128.3*	127.6	128.3	133.1	133.7
165°	127.6	127.0	127.6	129.7	129.0	126.3	*125.6*	125.6	127.6	131.7	132.4
167.5°	131.0	131.0	131.0	131.7	131.0	128.3	*127.6*	127.6	129.7	133.1	133.1
170°	136.5	135.8	135.8	135.8	135.1	132.4	*131.0*	131.7	132.4	134.4	134.4
172.5°	141.2	141.2	140.5	139.8	138.5	137.1	*135.8*	135.8	135.8	136.5	136.5
175°	146.6	146.6	146.6	146.0	146.0	143.9	*143.2*	142.6	141.9	141.2	140.5
177.5°	152.7	152.1	152.1	152.1	152.1	150.0	*148.7*	148.0	146.6	146.0	146.0
180°	150.0	150.0	150.0	150.0	150.0	150.0	*150.0*	150.0	150.0	150.0	150.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	63.1	61.1	57.7	51.6	49.6	47.5	45.5	41.4	39.4	38.0
5°	77.4	74.7	74.0	70.6	65.9	61.8	61.1	59.7	59.1	57.0
7.5°	110.7	112.0	115.4	109.3	95.7	88.3	90.3	97.8	95.0	94.4
10°	139.2	148.0	154.8	139.2	114.7	99.1	99.8	114.7	116.1	118.8
12.5°	162.9	170.4	169.0	149.4	126.3	111.3	106.6	114.7	122.2	122.9
15°	188.7	175.8	171.1	154.8	138.5	127.0	124.9	127.0	127.0	125.6
17.5°	199.6	177.2	163.6	150.0	138.5	130.3	127.6	124.2	119.5	119.5
20°	202.3	182.6	167.0	152.7	141.2	132.4	124.9	120.8	119.5	119.5
22.5°	210.5	192.8	176.5	159.5	147.3	135.8	127.0	122.9	122.9	123.6
25°	222.0	205.7	185.3	167.7	154.8	142.6	131.0	124.9	124.2	124.9
27.5°	236.3	219.3	196.9	177.9	162.9	149.4	135.1	127.6	124.9	124.9
30°	252.5	232.9	207.7	186.7	170.4	158.2	140.5	130.3	127.0	125.6
32.5°	281.7	259.3	221.3	198.2	179.9	166.3	148.7	135.8	129.0	127.6
35°	353.7	319.1	269.5	227.4	199.6	175.8	154.8	139.2	130.3	129.0
37.5°	431.8	379.5	332.7	285.8	245.1	206.4	166.3	144.6	133.7	131.7
40°	480.6	412.1	370.7	300.7	295.3	263.4	204.3	159.5	140.5	137.8
42.5°	581.1	478.6	412.8	265.4	288.5	295.3	258.0	200.3	158.9	154.1
45°	699.9	562.8	463.0	283.8	297.4	289.2	264.1	232.2	198.2	188.7
47.5°	907.0	642.2	480.6	329.3	340.1	317.7	280.4	247.1	222.0	218.6
50°	1308.9	875.8	541.1	404.6	437.2	374.7	326.5	300.7	266.8	262.7
52.5°	1826.2	1054.3	607.6	523.4	597.4	520.0	442.0	389.7	382.2	384.9
55°	2386.9	1109.3	695.2	647.0	776.6	704.0	614.4	564.2	613.7	629.3
57.5°	2943.0	1192.1	822.1	807.2	972.2	861.5	790.9	812.6	1019.0	1068.6
60°	3380.8	1262.7	929.4	961.3	1165.6	1045.5	1015.6	1047.5	1401.9	1533.6
62.5°	3552.6	1230.8	985.1	1026.5	1256.6	1174.5	1164.3	1194.8	1493.5	1623.2
65°	*3565.5*	*1181.9*	*1006.8*	*1044.1*	*1270.9*	*1183.3*	*1155.5*	*1129.7*	*1337.4*	*1419.5*
67.5°	3299.4	1084.2	980.3	1019.0	1207.7	1091.6	1033.9	975.6	1082.1	1127.6
70°	2659.9	961.3	897.5	919.9	1015.6	908.3	829.6	789.5	827.6	824.2
72.5°	2014.9	846.6	806.5	784.1	829.6	742.7	655.8	617.1	651.0	642.2
75°	1539.0	755.6	718.3	643.6	687.7	570.3	474.5	448.1	464.4	458.2
77.5°	1110.7	605.6	556.0	473.9	530.9	414.8	318.4	299.4	303.5	290.6
80°	799.7	451.5	403.3	344.9	390.4	296.7	236.3	232.2	234.2	220.6
82.5°	628.0	361.8	329.9	298.7	313.0	268.2	227.4	223.4	225.4	210.5
85°	585.2	354.4	321.1	300.7	305.5	264.1	220.6	219.3	222.7	206.4
87.5°	551.9	351.0	324.5	295.3	283.8	242.4	204.3	210.5	220.0	203.0
90°	486.8	327.2	304.1	277.7	265.4	227.4	204.3	213.2	212.5	200.3
92.5°	429.1	291.9	273.6	258.7	255.9	231.5	213.8	222.0	224.7	212.5
95°	351.7	246.4	237.6	232.9	236.9	213.2	198.2	202.3	199.6	192.8
97.5°	299.4	224.7	218.6	211.8	207.7	190.8	177.9	183.3	186.0	179.9
100°	270.9	213.8	209.1	201.6	200.9	189.4	182.6	193.5	201.6	198.2
102.5°	253.2	203.0	196.9	190.1	188.1	178.5	173.1	179.9	187.4	180.6
105°	240.3	192.8	183.3	177.2	173.8	167.0	160.2	162.9	171.1	167.7
107.5°	228.1	192.1	177.2	172.4	172.4	163.6	154.1	154.8	158.9	158.2
110°	247.1	213.2	186.0	179.2	177.2	174.5	167.7	160.9	155.5	155.5

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

Scaled Data Report

REPORT NUMBER: P981418
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	296.0	261.4	233.5	211.8	203.0	192.8	178.5	168.4	160.9	158.9
115°	317.7	280.4	253.9	230.1	209.8	190.1	177.9	170.4	166.3	170.4
117.5°	299.4	247.8	244.4	220.0	200.9	185.3	181.9	169.7	176.5	176.5
120°	336.7	287.8	280.4	245.1	218.6	198.9	196.9	194.8	187.4	184.0
122.5°	492.2	428.4	397.8	345.6	300.1	259.3	236.3	204.3	181.9	177.2
125°	668.7	584.5	511.2	442.0	373.4	300.7	239.6	192.1	169.0	165.6
127.5°	670.7	585.2	504.4	420.2	345.6	269.5	215.2	181.9	165.6	165.0
130°	589.9	515.3	426.3	342.8	282.4	232.2	192.8	165.6	154.1	150.7
132.5°	469.8	403.3	346.2	294.6	248.5	205.7	170.4	151.4	144.6	143.9
135°	395.1	337.4	297.4	259.3	223.4	185.3	152.7	143.2	139.8	138.5
137.5°	322.5	287.8	263.4	232.9	198.2	167.0	145.3	141.2	139.8	137.1
140°	279.7	256.6	230.1	196.2	169.7	143.9	132.4	135.8	139.2	138.5
142.5°	228.1	211.1	191.4	169.0	150.7	139.2	134.4	136.5	136.5	137.1
145°	216.6	194.2	183.3	169.7	157.5	148.7	137.1	133.1	132.4	132.4
147.5°	200.9	192.1	185.3	175.8	157.5	141.2	128.3	126.3	129.0	128.3
150°	188.1	181.9	173.8	158.9	140.5	129.7	122.9	123.6	128.3	129.0
152.5°	159.5	156.1	150.7	141.2	128.3	122.9	119.5	122.2	125.6	126.3
155°	141.9	139.8	138.5	132.4	124.2	120.8	119.5	121.5	124.9	125.6
157.5°	140.5	135.8	133.7	129.7	123.6	120.2	120.2	122.2	124.2	124.9
160°	136.5	130.3	129.7	125.6	124.2	122.2	123.6	124.2	126.3	125.6
162.5°	133.1	129.0	128.3	125.6	127.0	129.0	129.0	129.7	131.0	130.3
165°	131.7	128.3	127.6	127.6	131.7	135.1	135.8	135.1	135.1	135.1
167.5°	133.1	131.0	130.3	131.7	135.1	139.2	139.8	138.5	137.1	136.5
170°	135.1	134.4	135.1	135.8	137.8	140.5	140.5	139.2	139.2	139.2
172.5°	137.1	138.5	139.2	139.2	141.2	142.6	143.2	142.6	142.6	142.6
175°	141.2	141.9	141.9	142.6	144.6	146.0	147.3	147.3	147.3	147.3
177.5°	146.0	146.0	146.0	146.6	147.3	149.4	150.0	151.4	152.1	152.1
180°	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

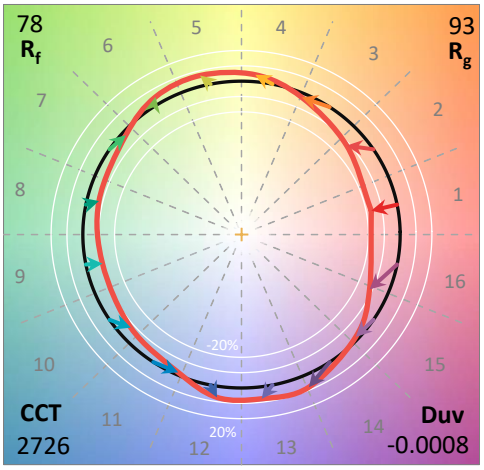
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

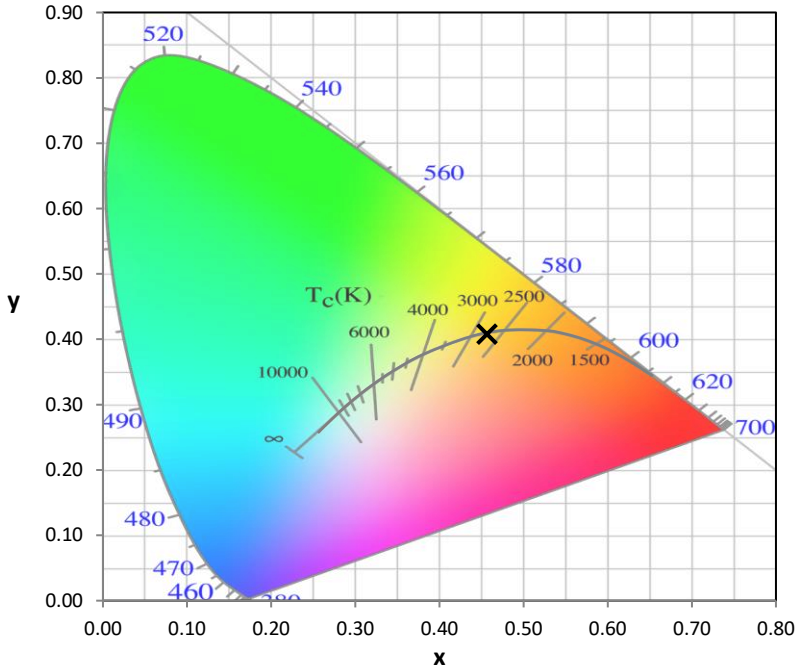
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

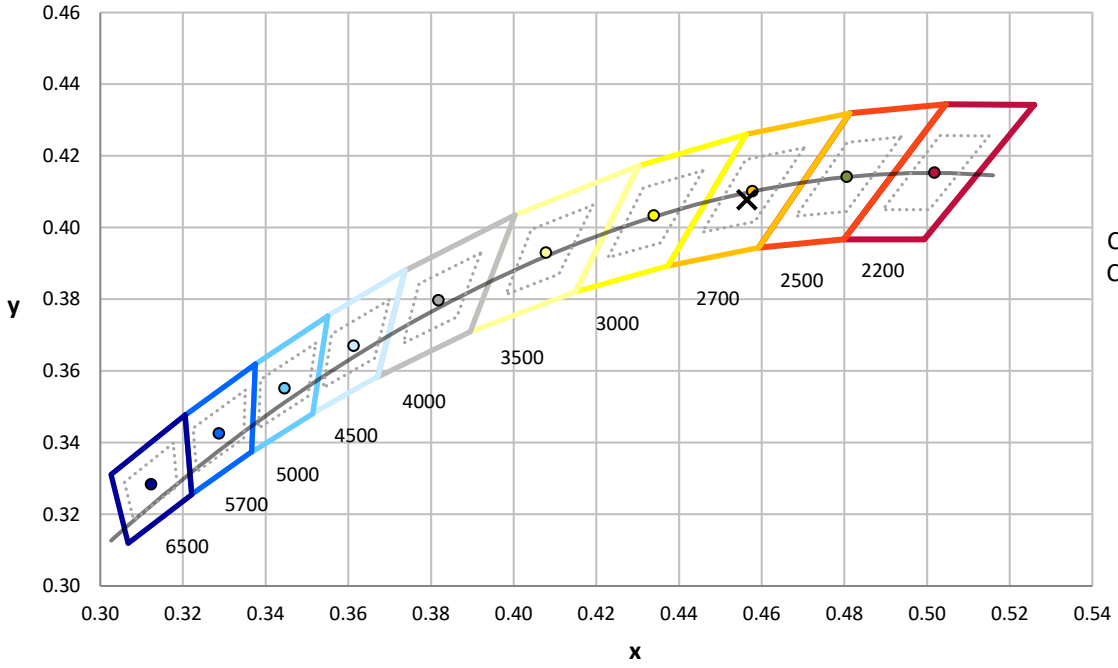
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

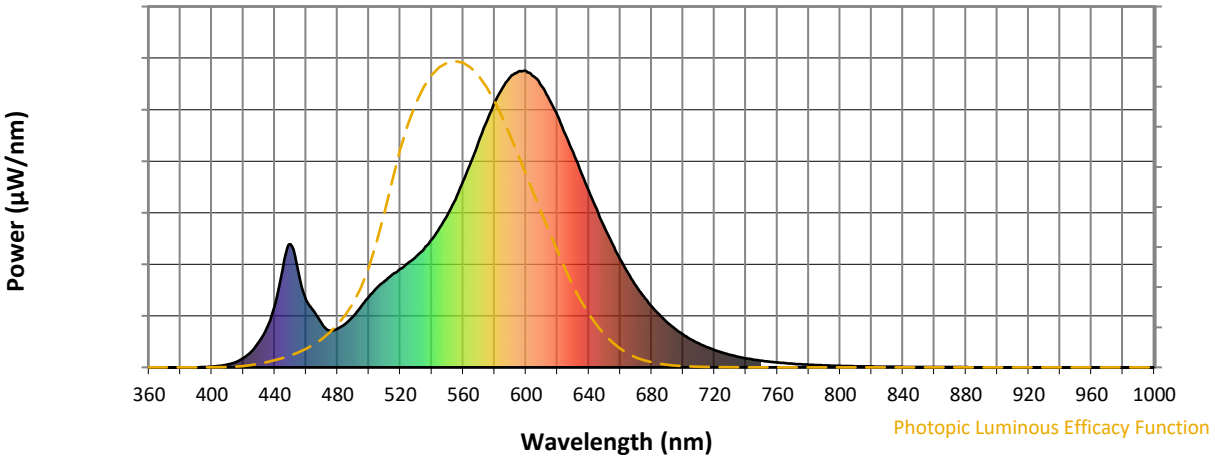


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

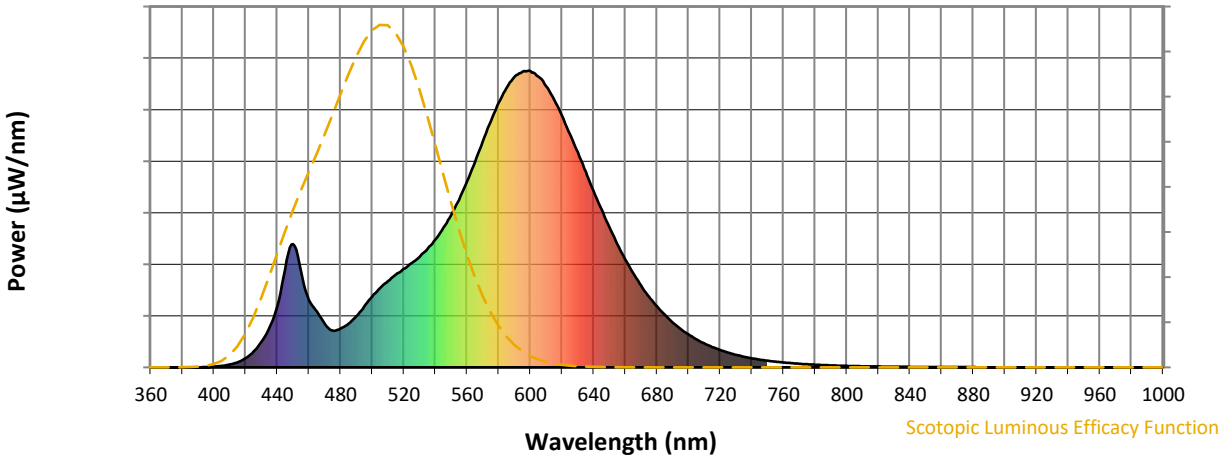


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

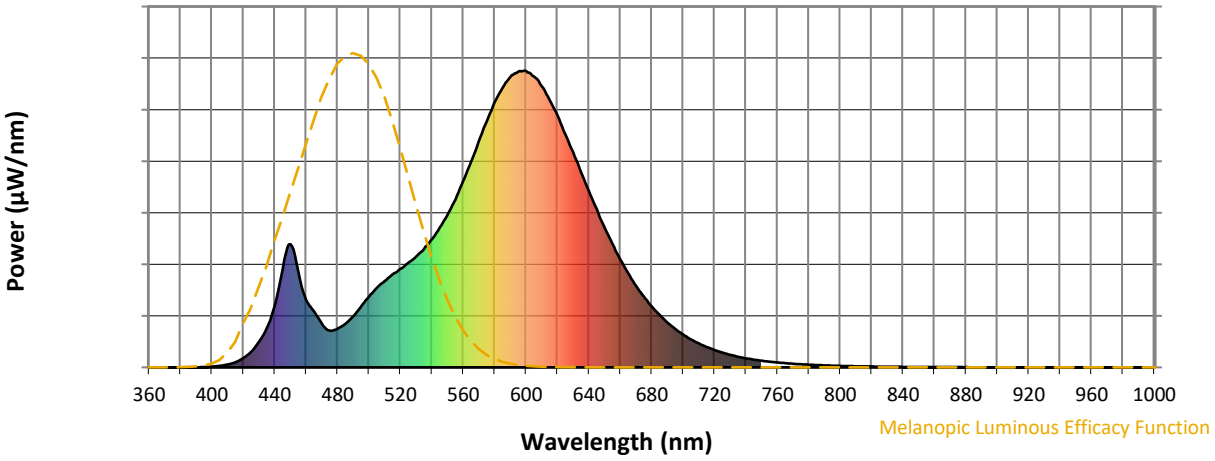


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

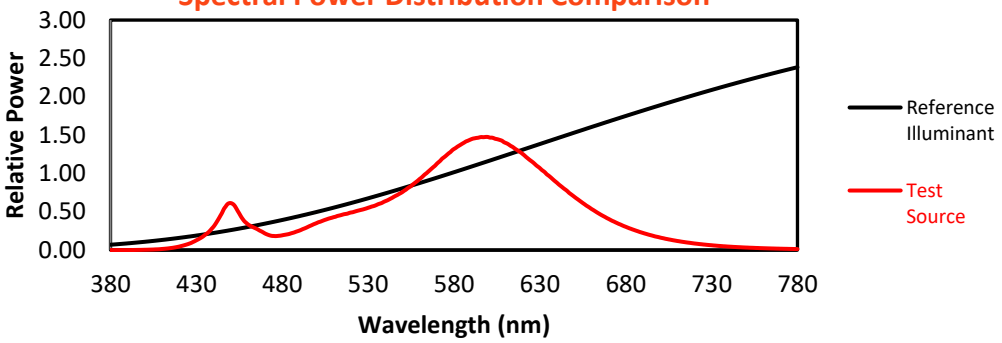
REPORT NUMBER: SP1-2501-332-3

TM-30-18

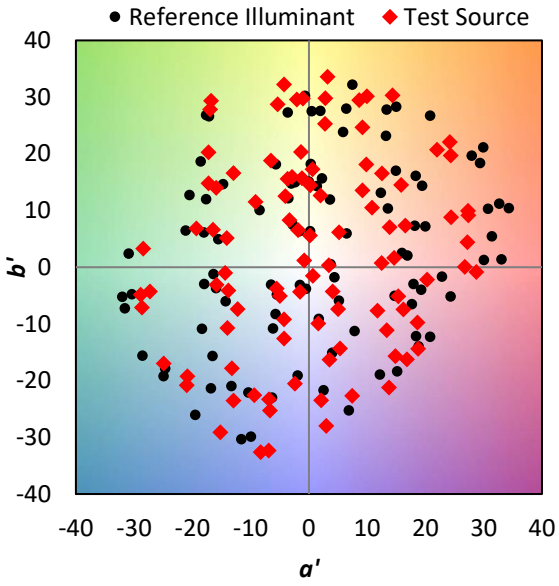
Summary

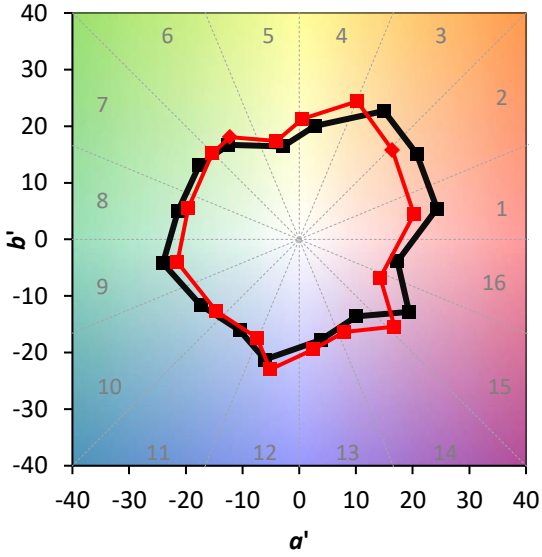
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

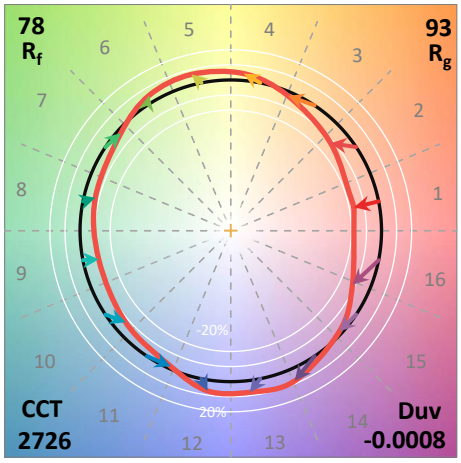
Spectral Power Distribution Comparison

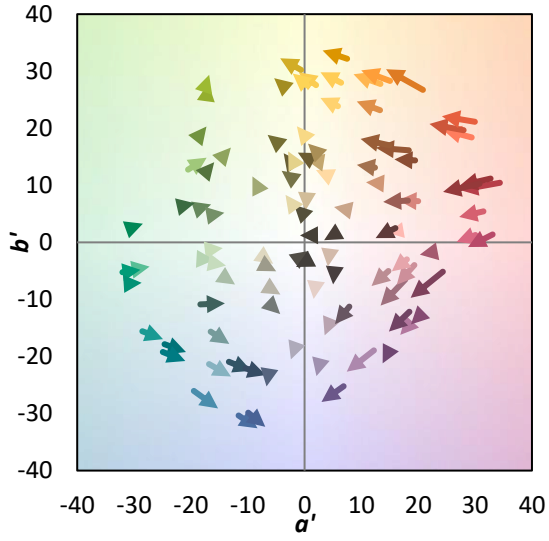


Color Vector Graphics







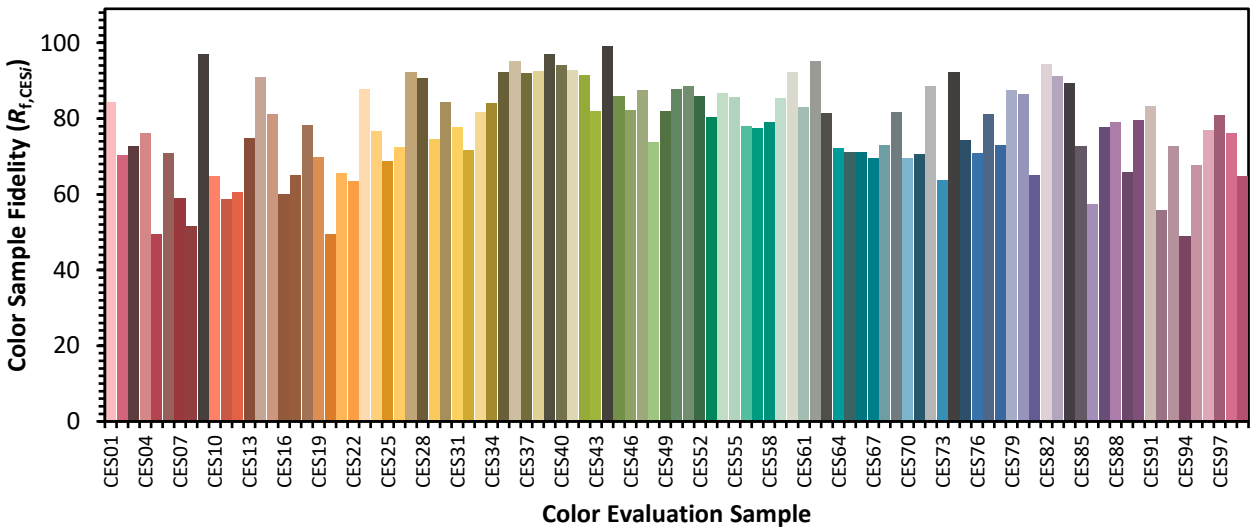


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

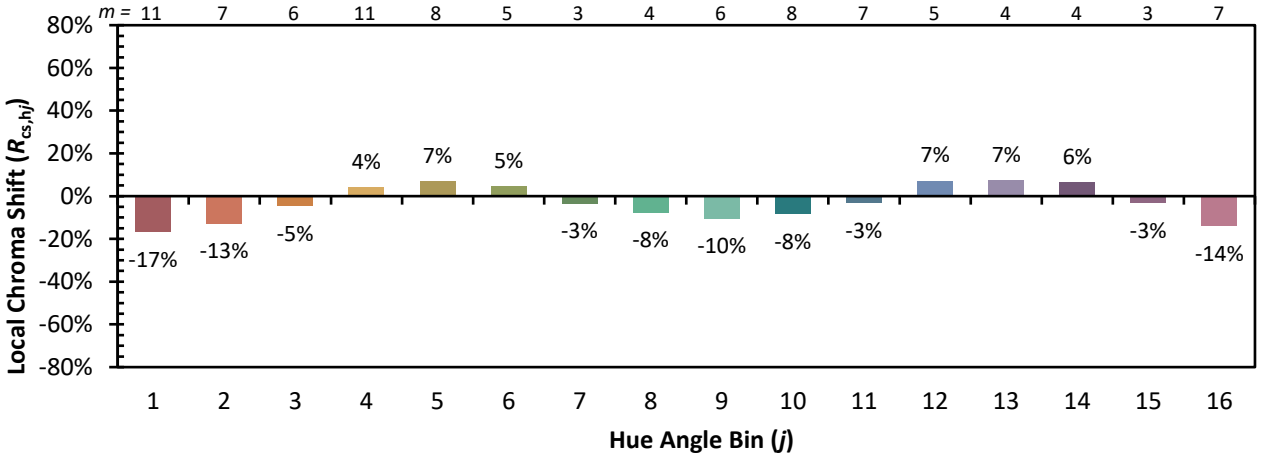
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

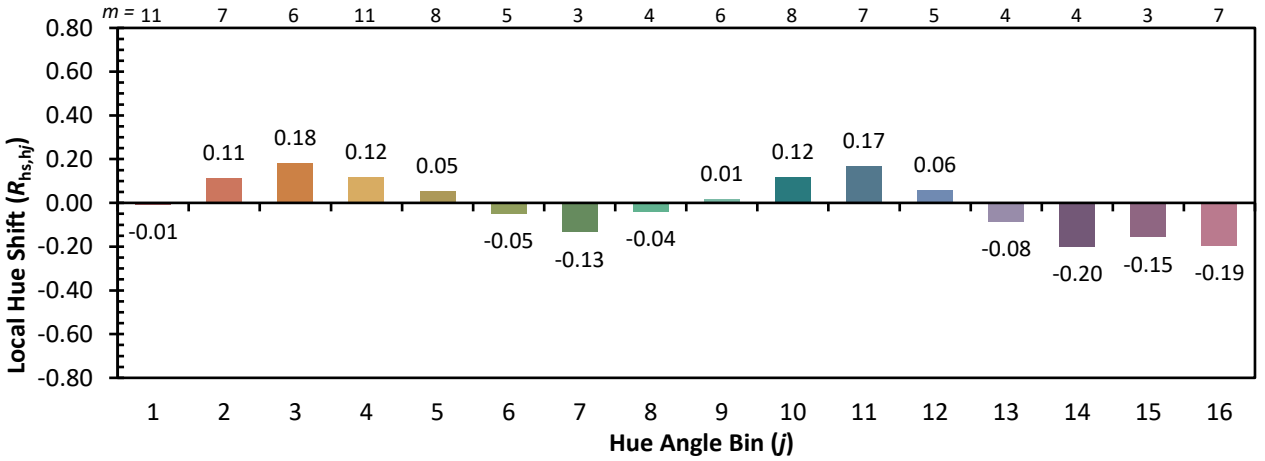


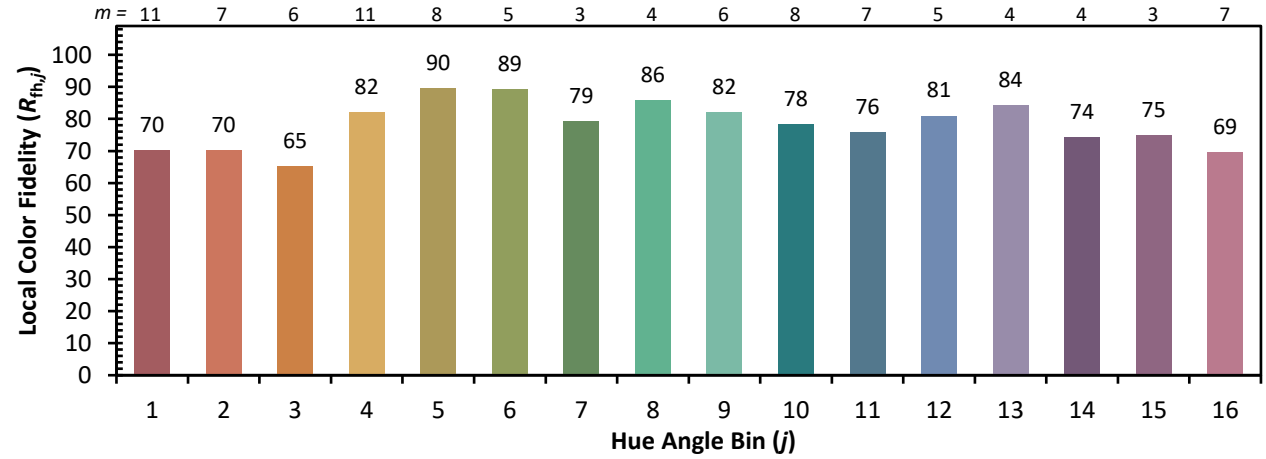
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Color Rendition by Hue-Angle Bin



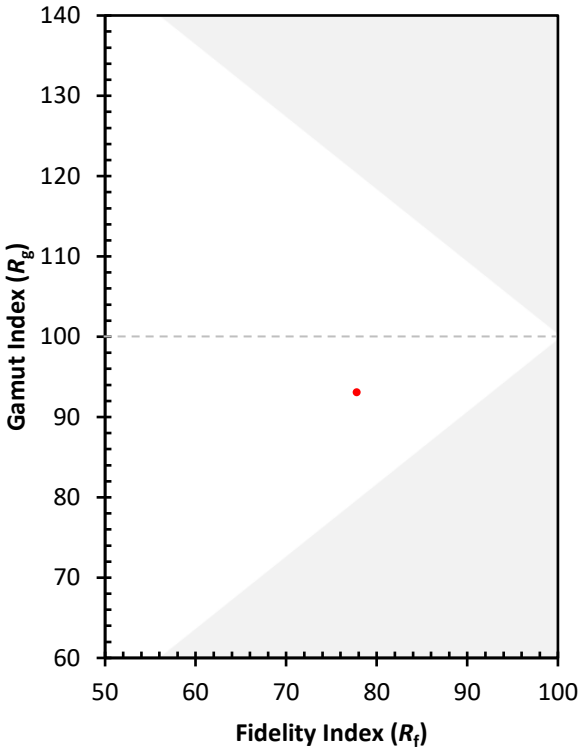


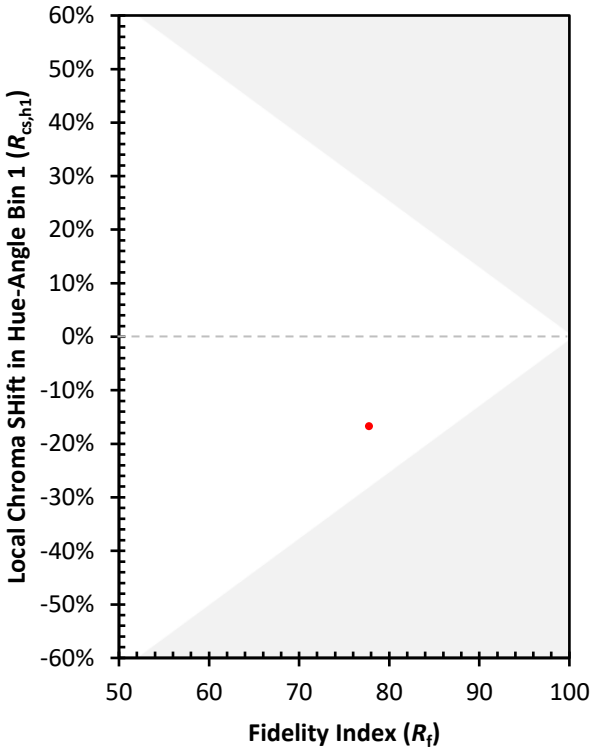


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Measure Comparisons





(END OF REPORT)