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: P981471

Luminaire Tested: **FFX-CLB-80-730-U-FR-T3-UPLR**

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:	P981471
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-730-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:	12029.4 lumens
Efficiency:	N/A
Efficacy:	147.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U4 - G4

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

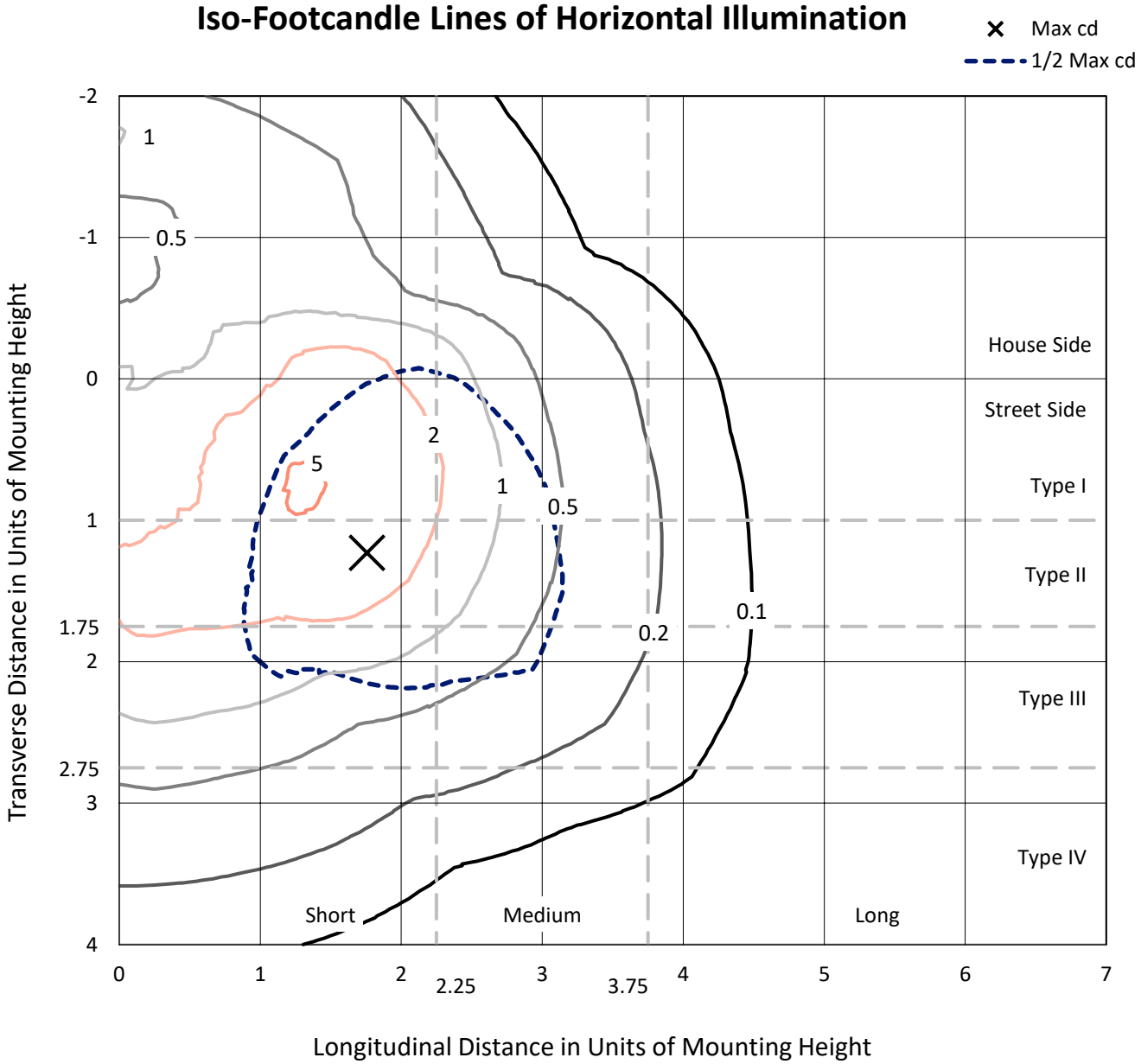


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Iso-Footcandle Lines of Horizontal Illumination



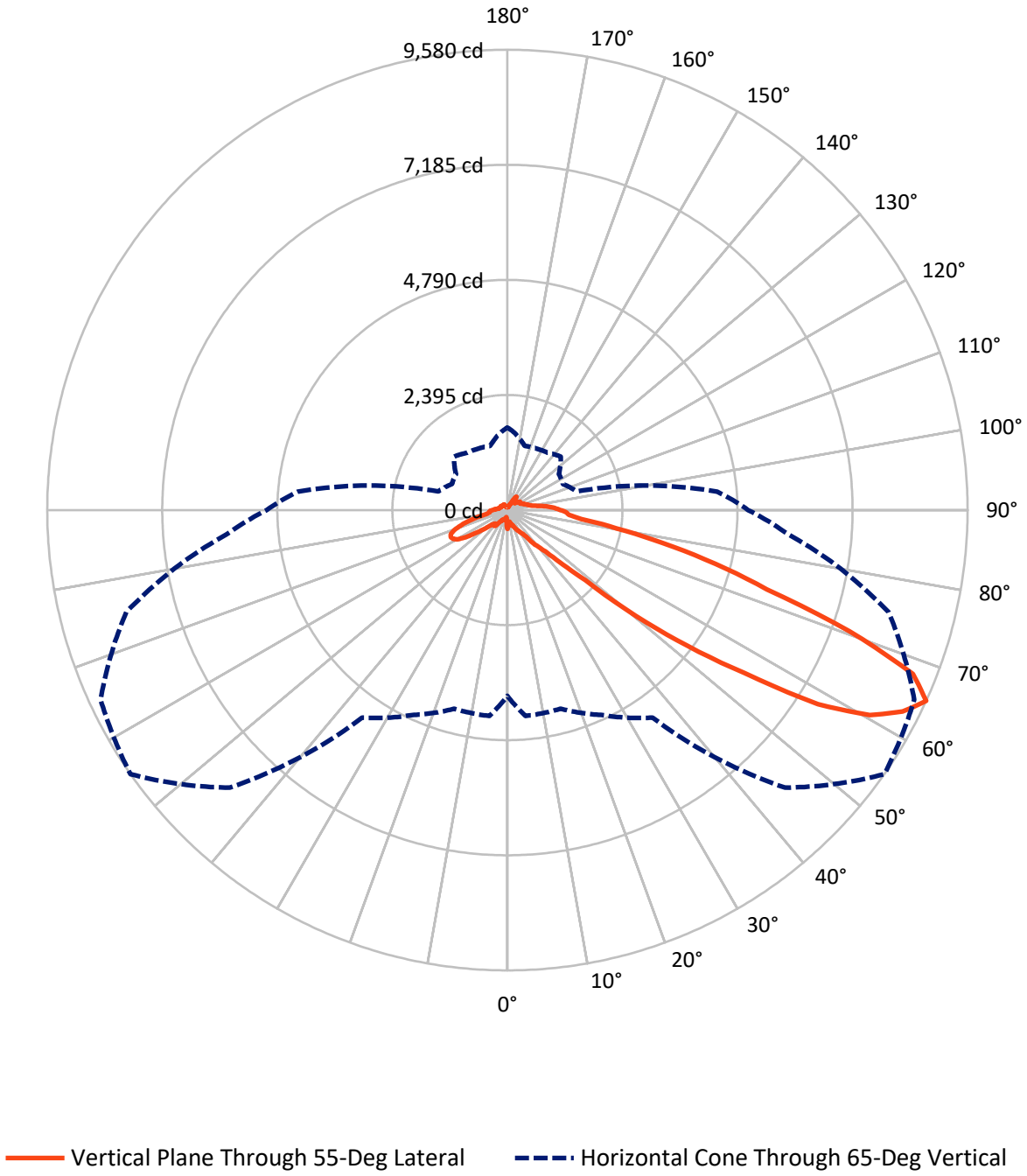
Based on 15 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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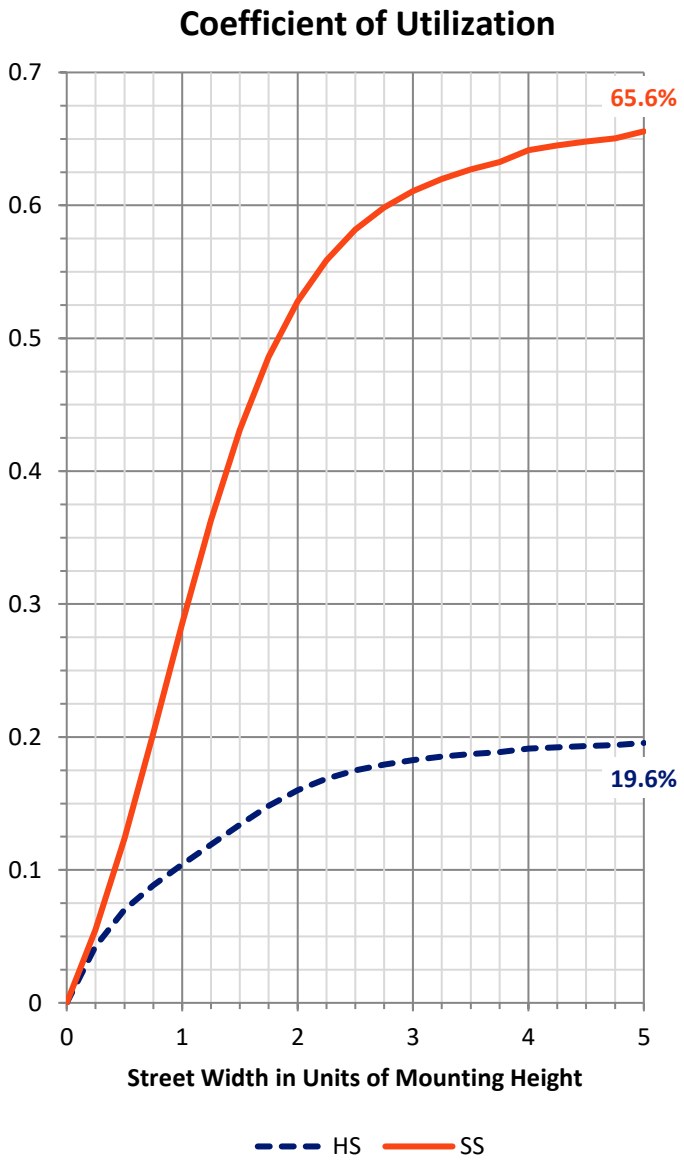
REPORT NUMBER: P981471
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2443.8	476.9	2920.6
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	8154.5	954.3	9108.7
	% Fixture	67.8	7.9	75.7
Total	Lumens	10598.3	1431.1	12029.4
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.6	0.2
10°-20°	73.5	0.6
20°-30°	150.4	1.3
30°-40°	326.1	2.7
40°-50°	791.4	6.6
50°-60°	2470.7	20.5
60°-70°	3925.9	32.6
70°-80°	2092.2	17.4
80°-90°	745.5	6.2
90°-100°	453.5	3.8
100°-110°	268.5	2.2
110°-120°	209.6	1.7
120°-130°	174.8	1.5
130°-140°	127.8	1.1
140°-150°	117.5	1.0
150°-160°	53.1	0.4
160°-170°	20.3	0.2
170°-180°	6.0	0.0
0°-90°	10598.3	88.1
0°-180°	12029.4	100.0



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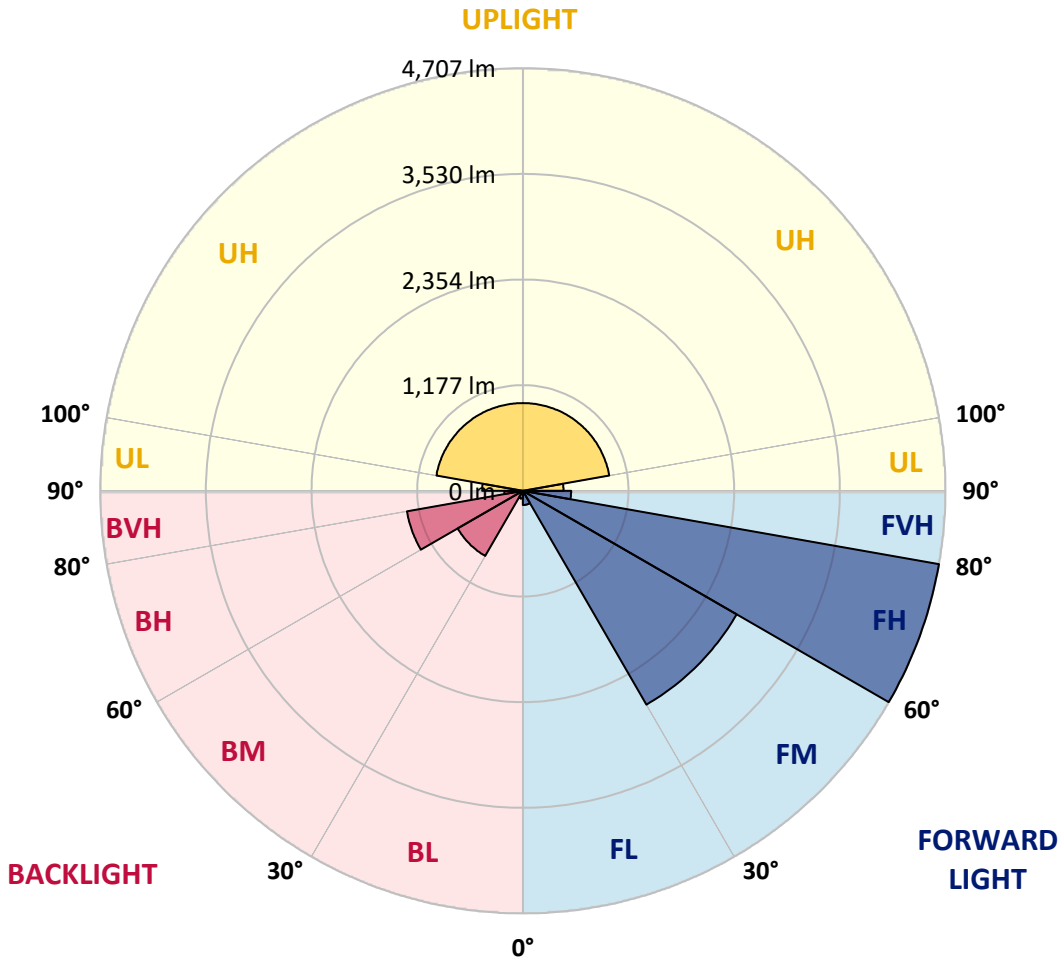
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	159.0	1.3			
FM	(30°-60°)	2750.6	22.9			
FH	(60°-80°)	4707.0	39.1			G2/5000
FVH	(80°-90°)	537.9	4.5			G4/750
BL	(0°-30°)	87.6	0.7	B0/110		
BM	(30°-60°)	837.6	7.0	B1/1000		
BH	(60°-80°)	1311.0	10.9	B3/2500		G3/2500
BVH	(80°-90°)	207.6	1.7			G2/225
UL	(90°-100°)	453.5	3.8		U3/500	
UH	(100°-180°)	977.6	8.1		U4/1000	

BUG Rating: B3-U4-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3
2.5°	233.0	234.7	260.7	281.1	306.4	299.0	299.0	354.4	391.1	444.9	440.0
5°	249.3	238.7	243.6	261.6	295.8	312.1	294.1	233.0	193.1	209.4	229.0
7.5°	273.0	270.5	264.8	247.7	234.7	269.7	318.6	283.6	214.3	180.1	172.7
10°	279.5	280.3	278.7	280.3	286.8	271.3	243.6	221.6	215.1	211.9	209.4
12.5°	338.1	337.3	340.6	336.5	321.0	302.3	308.0	291.7	259.9	237.9	232.2
15°	394.4	392.7	391.9	376.4	351.2	321.0	306.4	313.7	293.3	268.1	256.7
17.5°	417.2	417.2	400.9	378.9	363.4	342.2	330.8	322.7	307.2	290.9	277.0
20°	408.2	407.4	391.1	382.1	383.8	374.0	364.2	352.0	336.5	310.4	293.3
22.5°	403.3	403.3	397.6	395.2	409.0	405.8	403.3	387.9	367.5	329.2	307.2
25°	435.1	432.7	425.3	425.3	438.4	449.0	453.0	440.8	407.4	349.6	329.2
27.5°	466.1	465.3	455.5	457.9	466.1	487.3	493.8	488.1	442.4	366.7	348.7
30°	503.6	497.9	489.7	504.4	502.7	532.1	541.0	547.6	489.7	401.7	380.5
32.5°	543.5	540.2	533.7	552.4	559.0	585.9	593.2	625.8	554.1	464.4	442.4
35°	611.1	608.7	625.8	662.4	661.6	712.1	692.6	741.5	673.9	577.7	555.7
37.5°	915.9	902.0	882.4	847.4	845.0	915.0	893.0	931.3	836.0	700.7	676.3
40°	953.3	950.9	941.9	902.0	879.2	999.0	1013.6	1126.9	969.6	814.8	767.6
42.5°	931.3	934.6	1054.4	1079.6	1033.2	1180.7	1205.1	1403.9	1120.4	988.4	902.0
45°	1122.8	1127.7	1166.8	1184.7	1181.5	1552.2	1612.5	1856.2	1384.4	1232.0	1072.3
47.5°	1285.8	1268.7	1339.6	1476.4	1570.2	1989.0	2182.9	2556.9	1860.2	1635.3	1339.6
50°	1766.5	1762.4	1933.6	2083.5	2176.4	2861.6	3458.9	3869.6	2726.4	2371.1	1869.2
52.5°	2092.4	2231.0	2394.7	2741.9	2825.8	3894.0	4702.3	5031.5	3767.7	3114.2	2552.0
55°	2423.3	2622.9	2806.2	3346.5	3625.1	5059.2	5979.1	6069.6	4948.4	3786.5	3220.2
57.5°	3038.4	3375.0	3493.1	3924.2	4331.6	6402.0	7621.8	7525.6	6165.7	4566.2	3966.5
60°	3595.0	3999.9	3965.7	4387.8	4911.7	7496.3	8664.8	8563.7	7279.6	5258.8	4540.2
62.5°	3781.6	4189.8	4143.3	4602.9	5272.7	8083.0	9233.5	9060.8	8008.8	5702.9	4857.9
65°	3868.7	4302.2	4279.4	4708.0	5272.7	8167.7	9579.8	9343.5	8212.5	5874.0	5011.1
67.5°	3792.2	4210.2	4224.8	4605.3	4962.2	7555.8	9107.2	8786.2	7702.5	5463.3	4737.3
70°	3314.7	3607.2	3570.5	3915.2	3950.2	6048.4	7558.2	7208.7	6257.8	4555.6	3920.1
72.5°	2738.6	2809.5	2779.3	2996.9	3037.6	4430.2	5649.1	5451.1	4673.0	3389.6	2995.3
75°	2183.7	2172.3	2234.2	2284.7	2242.4	3251.9	4473.3	4248.5	3457.3	2552.8	2305.1
77.5°	1510.7	1423.5	1586.4	1601.9	1535.1	2162.5	3300.0	3214.4	2477.9	1881.4	1698.9
80°	849.0	858.8	975.3	1044.6	1020.1	1376.2	2296.2	2239.9	1692.4	1315.1	1168.4
82.5°	655.1	684.4	739.0	791.2	757.0	1052.7	1553.0	1557.1	1237.7	960.7	877.6
85°	720.3	735.8	743.1	744.7	717.9	978.6	1287.4	1270.3	1051.1	804.2	778.1
87.5°	702.4	718.7	721.1	721.9	698.3	932.1	1219.0	1192.1	1002.2	772.4	732.5
90°	602.1	629.9	633.1	654.3	626.6	832.7	1073.1	1046.2	903.6	696.7	659.2
92.5°	517.4	532.1	547.6	572.8	543.5	725.2	960.7	927.3	809.1	629.9	578.5
95°	473.4	481.6	494.6	504.4	470.1	616.0	803.4	768.4	656.7	506.8	461.2
97.5°	380.5	387.9	393.6	405.8	382.1	488.1	623.3	590.7	515.0	403.3	369.1
100°	325.1	330.0	336.5	344.7	325.1	409.0	511.7	497.0	428.6	340.6	318.6
102.5°	297.4	301.5	312.9	312.9	300.7	374.0	457.1	445.7	385.4	308.8	294.1
105°	286.8	287.6	297.4	293.3	285.2	348.7	426.1	411.5	361.0	293.3	276.2
107.5°	273.0	273.8	286.0	279.5	273.0	323.5	386.2	379.7	334.1	273.8	259.1
110°	259.1	261.6	277.0	271.3	267.3	303.9	361.8	349.6	319.4	264.8	252.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	248.5	250.1	264.8	260.7	257.5	290.9	*335.7*	335.7	312.1	264.8	248.5
115°	239.6	242.8	255.0	246.9	241.2	273.8	*309.6*	311.3	291.7	252.6	236.3
117.5°	224.1	231.4	237.9	241.2	234.7	262.4	*294.1*	292.5	281.9	243.6	232.2
120°	255.0	249.3	254.2	259.9	249.3	271.3	*298.2*	298.2	287.6	239.6	229.8
122.5°	266.4	258.3	263.2	257.5	256.7	285.2	*318.6*	321.0	299.0	246.9	222.4
125°	236.3	233.0	227.3	225.7	232.2	259.1	*289.3*	299.9	276.2	236.3	207.8
127.5°	202.1	198.0	190.7	194.7	207.0	233.9	*249.3*	255.0	245.3	219.2	198.0
130°	186.6	185.8	191.5	198.8	208.6	231.4	*236.3*	244.4	244.4	213.5	201.3
132.5°	170.3	171.1	189.0	214.3	221.6	226.5	*215.9*	231.4	238.7	217.6	203.7
135°	167.9	168.7	178.4	198.8	199.6	202.9	*203.7*	223.3	228.1	207.8	192.3
137.5°	183.3	183.3	176.0	180.1	189.0	213.5	*221.6*	237.1	233.0	196.4	173.6
140°	202.1	198.0	175.2	176.0	191.5	221.6	*232.2*	242.0	237.1	192.3	165.4
142.5°	167.0	168.7	172.7	188.2	206.1	274.6	*265.6*	290.1	280.3	203.7	161.3
145°	260.7	261.6	256.7	263.2	274.6	365.0	*337.3*	376.4	387.9	266.4	191.5
147.5°	285.2	288.4	279.5	273.8	306.4	334.1	*303.1*	335.7	357.7	279.5	205.3
150°	222.4	221.6	215.9	224.1	246.1	244.4	*228.1*	239.6	248.5	213.5	176.0
152.5°	158.1	155.6	152.4	153.2	179.3	172.7	*167.9*	177.6	177.6	163.8	141.0
155°	131.2	131.2	129.6	133.6	148.3	136.9	*132.8*	131.2	129.6	125.5	116.5
157.5°	110.8	113.3	110.8	115.7	125.5	114.9	*112.4*	110.0	110.8	110.8	108.4
160°	92.1	92.1	90.4	98.6	101.9	93.7	*89.6*	88.0	88.0	92.9	92.9
162.5°	77.4	77.4	78.2	81.5	83.9	78.2	*75.8*	75.8	78.2	85.6	85.6
165°	66.8	66.8	67.6	70.1	71.7	68.4	*66.8*	67.6	74.1	80.7	80.7
167.5°	61.1	61.1	61.1	61.9	62.7	61.1	*61.1*	64.4	70.1	74.1	74.1
170°	57.9	57.9	57.0	57.9	57.9	57.9	*61.1*	64.4	66.8	66.8	66.8
172.5°	58.7	58.7	57.9	58.7	58.7	57.9	*61.9*	66.0	64.4	63.6	63.6
175°	60.3	60.3	60.3	61.1	61.1	59.5	*58.7*	60.3	61.9	61.9	61.1
177.5°	60.3	60.3	59.5	60.3	59.5	57.9	*57.0*	56.2	56.2	55.4	55.4
180°	56.2	56.2	56.2	56.2	56.2	56.2	*56.2*	56.2	56.2	56.2	56.2

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3
2.5°	398.4	343.9	303.1	334.9	405.0	440.0	405.0	308.0	216.7	189.9
5°	238.7	232.2	209.4	204.5	213.5	205.3	228.1	215.9	171.1	172.7
7.5°	178.4	215.9	208.6	149.1	139.3	130.4	137.7	157.3	162.1	151.6
10°	207.0	186.6	163.0	151.6	165.4	178.4	169.5	147.5	127.1	121.4
12.5°	228.1	226.5	229.0	205.3	168.7	155.6	150.7	162.1	197.2	205.3
15°	245.3	226.5	209.4	204.5	180.1	167.0	160.5	157.3	150.7	145.9
17.5°	262.4	231.4	212.7	193.9	181.7	169.5	155.6	148.3	147.5	148.3
20°	273.8	245.3	223.3	202.1	186.6	170.3	156.4	149.9	149.9	149.9
22.5°	287.6	259.9	236.3	209.4	191.5	173.6	162.1	155.6	154.8	154.8
25°	310.4	279.5	251.8	222.4	202.9	186.6	171.1	163.0	160.5	159.7
27.5°	336.5	302.3	268.9	238.7	218.4	200.4	180.1	167.9	164.6	163.8
30°	369.9	330.8	288.4	256.7	231.4	214.3	189.9	175.2	168.7	167.9
32.5°	424.5	373.2	317.8	282.7	252.6	229.8	202.9	185.0	174.4	171.9
35°	529.6	466.9	383.8	333.3	285.2	249.3	214.3	190.7	180.1	178.4
37.5°	647.0	551.6	471.0	412.3	353.6	293.3	232.2	199.6	186.6	184.1
40°	697.5	607.0	521.5	429.4	416.4	369.1	285.2	221.6	195.6	191.5
42.5°	808.3	679.6	563.9	379.7	409.9	407.4	352.0	271.3	220.0	210.2
45°	951.7	773.3	627.4	405.8	413.1	398.4	361.0	313.7	267.3	256.7
47.5°	1185.6	864.5	647.8	456.3	464.4	429.4	378.1	330.8	297.4	293.3
50°	1693.2	1132.6	722.7	552.4	578.5	497.9	434.3	393.6	353.6	346.3
52.5°	2301.9	1342.0	800.1	689.3	783.0	667.3	571.2	496.2	493.8	484.0
55°	2943.1	1422.7	902.8	840.1	985.9	885.7	792.0	723.6	758.6	761.9
57.5°	3663.4	1509.0	1051.1	1037.3	1232.0	1072.3	993.3	1012.0	1260.5	1357.5
60°	4143.3	1579.9	1179.0	1200.2	1456.9	1301.3	1241.8	1283.3	1705.4	1882.2
62.5°	4356.8	1544.1	1241.8	1278.4	1553.9	1440.6	1430.8	1452.8	1810.5	1975.9
65°	*4386.2*	*1491.1*	*1276.0*	*1307.8*	*1571.0*	*1455.3*	*1413.7*	*1382.7*	*1620.7*	*1717.6*
67.5°	4026.0	1378.7	1249.1	1282.5	1493.6	1355.0	1251.6	1181.5	1319.2	1329.0
70°	3276.4	1231.2	1157.9	1170.1	1276.0	1134.2	1036.4	976.1	1007.9	994.9
72.5°	2540.6	1085.3	1031.6	1003.0	1034.8	913.4	797.7	766.7	796.9	783.0
75°	1930.3	969.6	910.1	814.0	866.1	703.2	574.4	546.7	559.8	541.0
77.5°	1419.4	781.4	712.1	602.1	673.9	510.1	387.9	359.3	364.2	346.3
80°	1035.6	577.7	520.7	431.9	485.6	362.6	280.3	275.4	274.6	263.2
82.5°	800.1	458.7	416.4	371.6	380.5	320.2	265.6	257.5	257.5	240.4
85°	742.3	444.1	400.9	369.1	371.6	310.4	252.6	247.7	250.1	232.2
87.5°	693.4	434.3	399.3	361.0	342.2	281.1	227.3	233.0	234.7	219.2
90°	594.8	386.2	354.4	317.8	295.8	238.7	203.7	214.3	215.9	202.1
92.5°	521.5	331.6	304.7	276.2	266.4	224.1	195.6	203.7	203.7	191.5
95°	415.6	271.3	259.1	245.3	242.8	209.4	182.5	186.6	185.0	174.4
97.5°	338.1	235.5	224.9	211.9	203.7	179.3	160.5	164.6	165.4	158.1
100°	297.4	217.6	202.9	188.2	180.1	161.3	146.7	154.0	158.9	152.4
102.5°	277.9	207.8	191.5	176.0	169.5	152.4	138.5	145.0	151.6	145.9
105°	264.0	200.4	183.3	169.5	161.3	144.2	130.4	132.0	140.1	136.9
107.5°	246.1	200.4	178.4	164.6	154.8	139.3	123.0	121.4	126.3	125.5
110°	239.6	200.4	175.2	161.3	150.7	136.9	122.2	115.7	118.1	118.1

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

Scaled Data Report

REPORT NUMBER: P981471
CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	233.9	198.8	171.9	155.6	146.7	135.3	120.6	110.8	113.3	114.9
115°	220.8	183.3	162.1	145.0	136.1	123.9	114.1	106.7	107.6	109.2
117.5°	213.5	169.5	157.3	141.8	135.3	127.9	119.0	105.1	105.1	106.7
120°	213.5	167.0	161.3	155.6	152.4	140.1	125.5	105.1	102.7	102.7
122.5°	210.2	185.8	176.0	163.0	154.0	137.7	119.8	102.7	101.0	101.0
125°	193.1	177.6	162.1	146.7	136.1	123.0	112.4	103.5	100.2	100.2
127.5°	184.1	159.7	145.0	132.8	125.5	119.0	112.4	103.5	99.4	98.6
130°	186.6	161.3	142.6	132.8	127.1	120.6	113.3	101.9	95.3	94.5
132.5°	188.2	155.6	137.7	129.6	125.5	120.6	110.8	96.1	88.8	88.8
135°	170.3	140.1	132.0	126.3	123.9	119.8	105.1	91.3	85.6	84.7
137.5°	154.8	136.1	130.4	124.7	120.6	114.9	103.5	89.6	82.3	81.5
140°	148.3	132.8	124.7	114.1	109.2	97.8	89.6	81.5	79.0	78.2
142.5°	141.0	124.7	114.9	105.9	103.5	99.4	94.5	81.5	73.3	73.3
145°	168.7	149.9	138.5	129.6	118.1	110.0	94.5	78.2	67.6	66.0
147.5°	176.8	159.7	148.3	136.1	114.9	97.0	79.9	68.4	64.4	62.7
150°	154.8	140.1	127.9	114.9	96.1	83.9	72.5	65.2	63.6	63.6
152.5°	123.0	114.9	101.9	92.9	80.7	73.3	66.8	62.7	61.1	61.1
155°	101.9	95.3	88.0	80.7	74.1	69.3	65.2	61.9	60.3	60.3
157.5°	98.6	88.8	82.3	75.8	71.7	66.8	63.6	60.3	59.5	58.7
160°	89.6	78.2	72.5	68.4	67.6	66.0	63.6	61.1	60.3	59.5
162.5°	83.1	71.7	67.6	65.2	67.6	69.3	67.6	64.4	61.9	61.1
165°	78.2	67.6	64.4	64.4	69.3	71.7	67.6	64.4	64.4	63.6
167.5°	72.5	69.3	65.2	64.4	68.4	73.3	74.1	68.4	66.0	65.2
170°	67.6	68.4	68.4	66.0	66.8	70.9	72.5	70.9	67.6	66.8
172.5°	64.4	66.0	69.3	67.6	67.6	69.3	70.9	69.3	66.8	66.0
175°	61.1	61.9	60.3	61.1	63.6	66.0	65.2	64.4	63.6	63.6
177.5°	55.4	55.4	56.2	56.2	57.0	59.5	60.3	60.3	61.9	61.9
180°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2

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

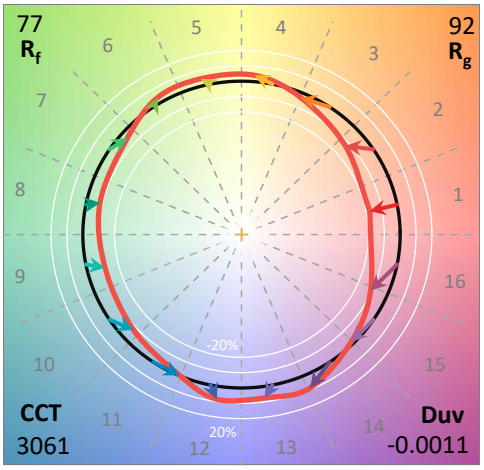
Test Information

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

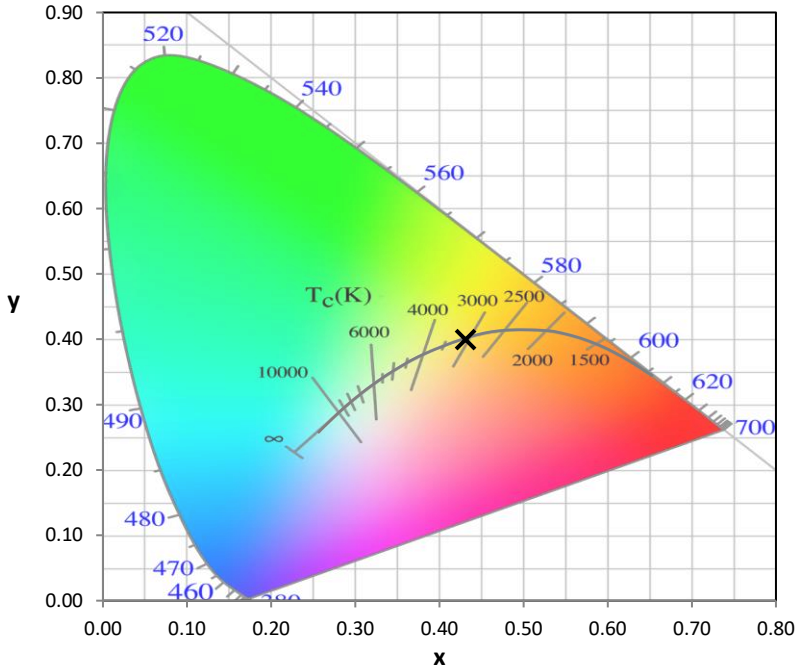
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

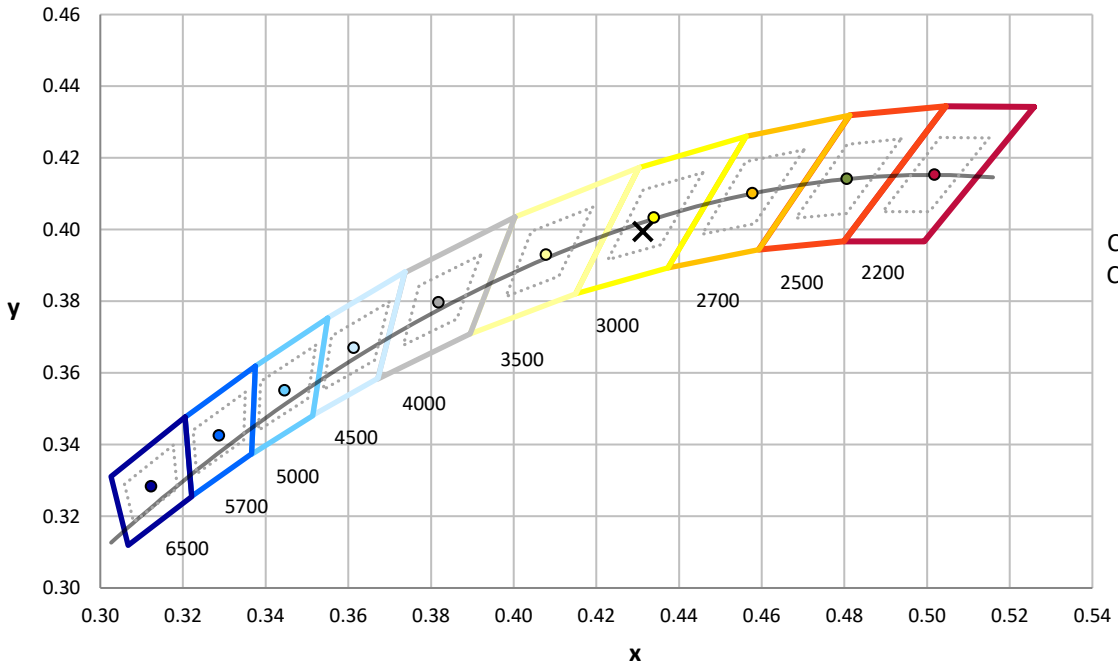
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

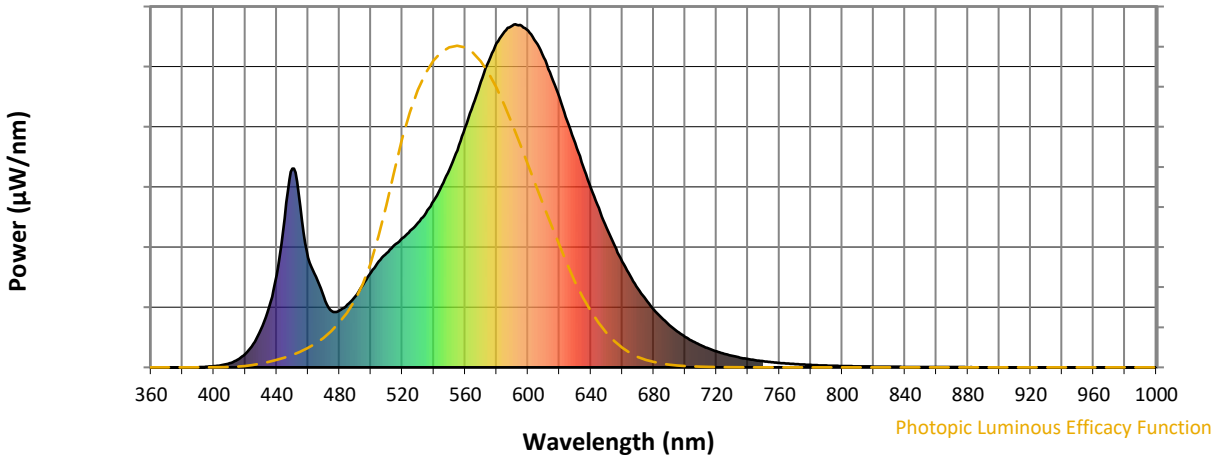


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

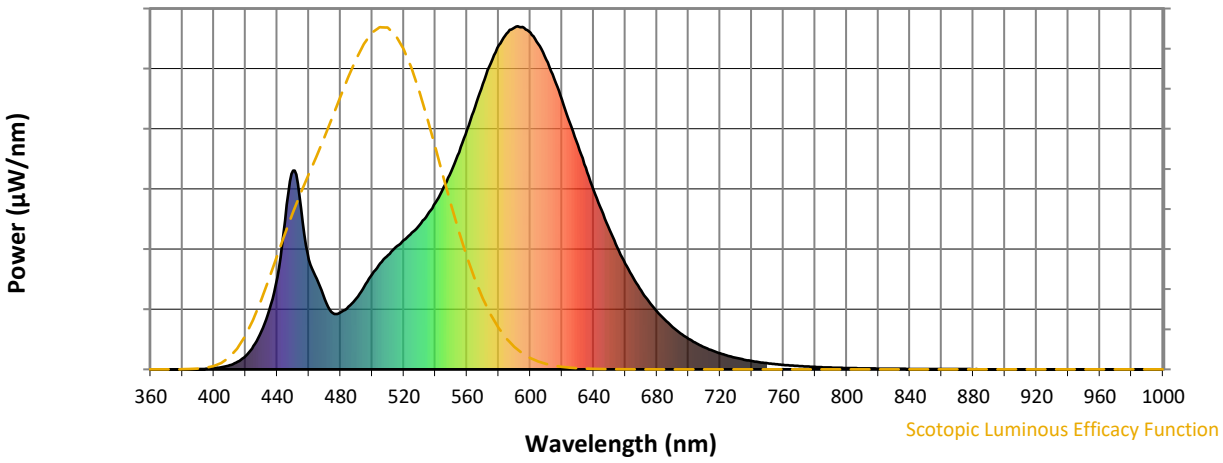


Photopic Lumens: NR

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

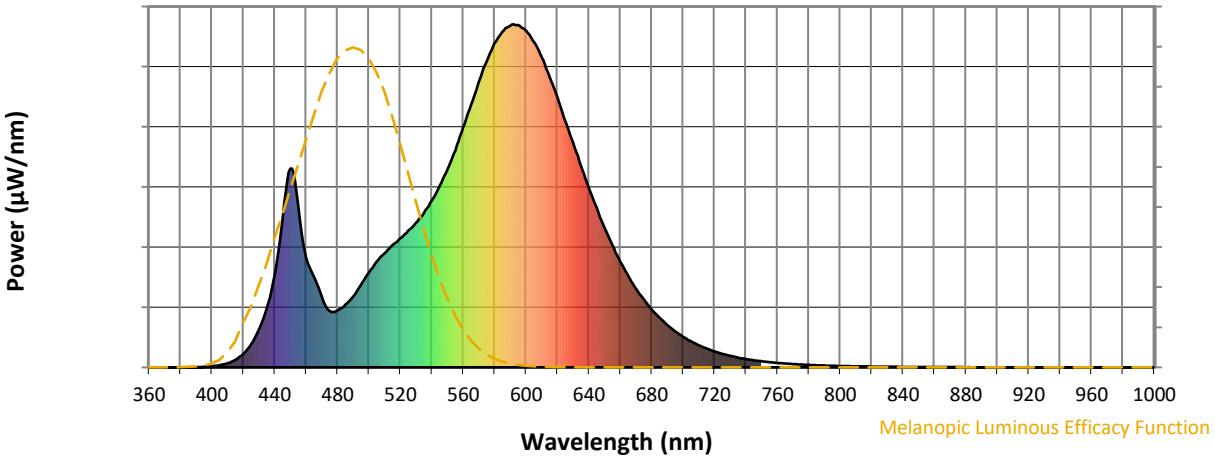


Scotopic Lumens: NR **S/P: 1.29**

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			

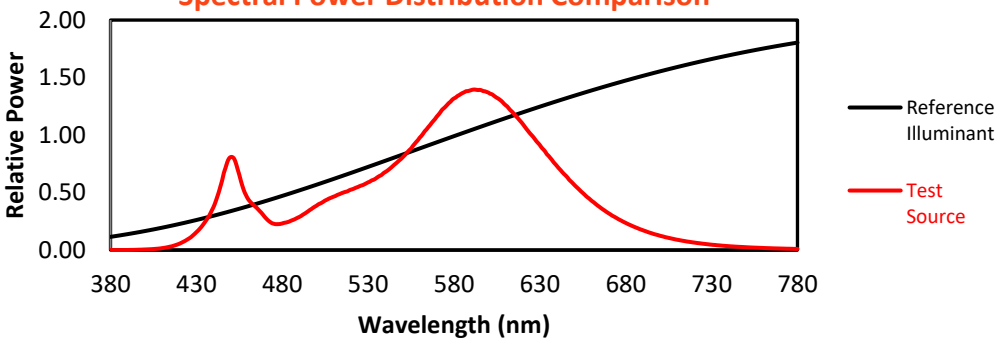
REPORT NUMBER: SP1-2501-332-4

TM-30-18

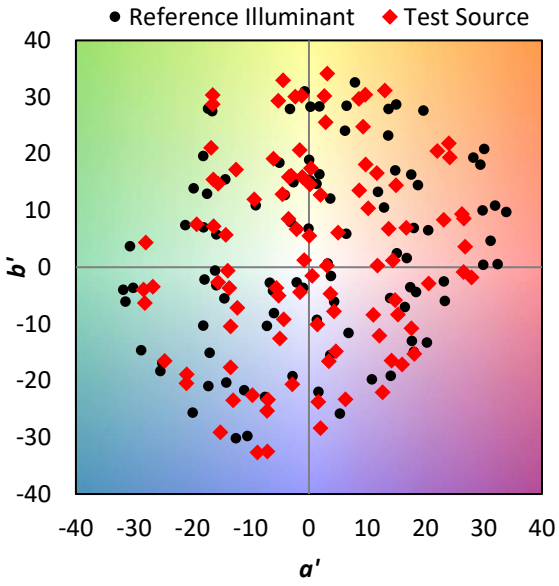
Summary

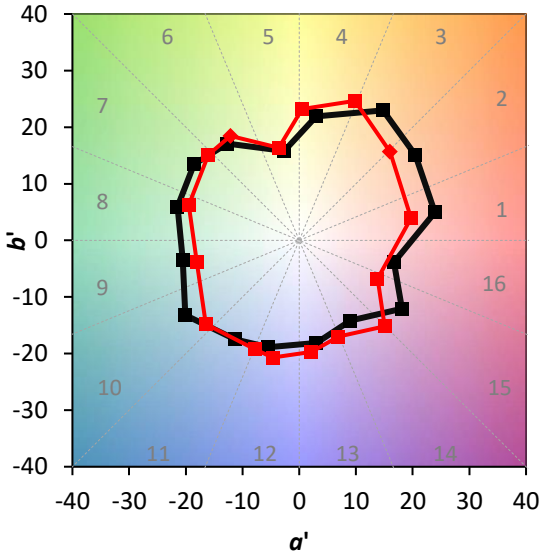
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

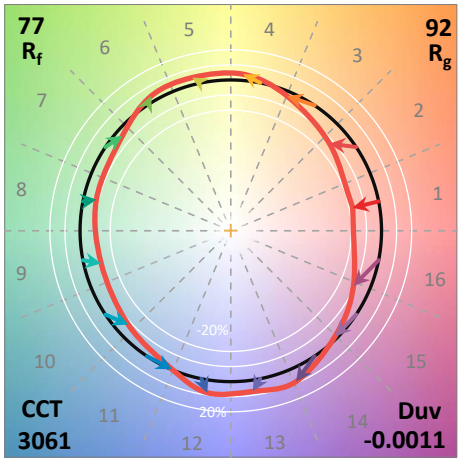
Spectral Power Distribution Comparison

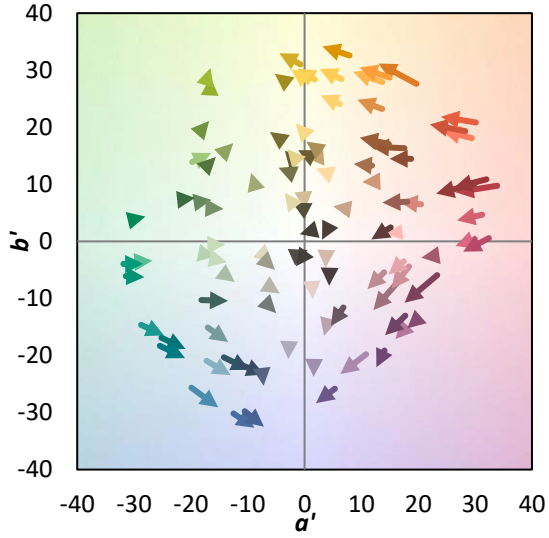


Color Vector Graphics







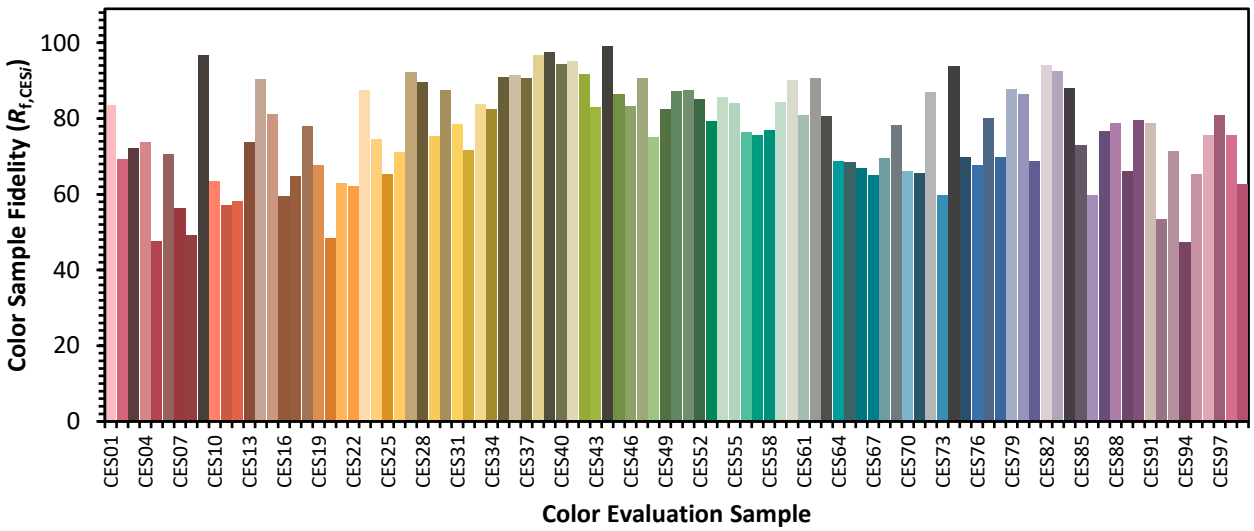


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

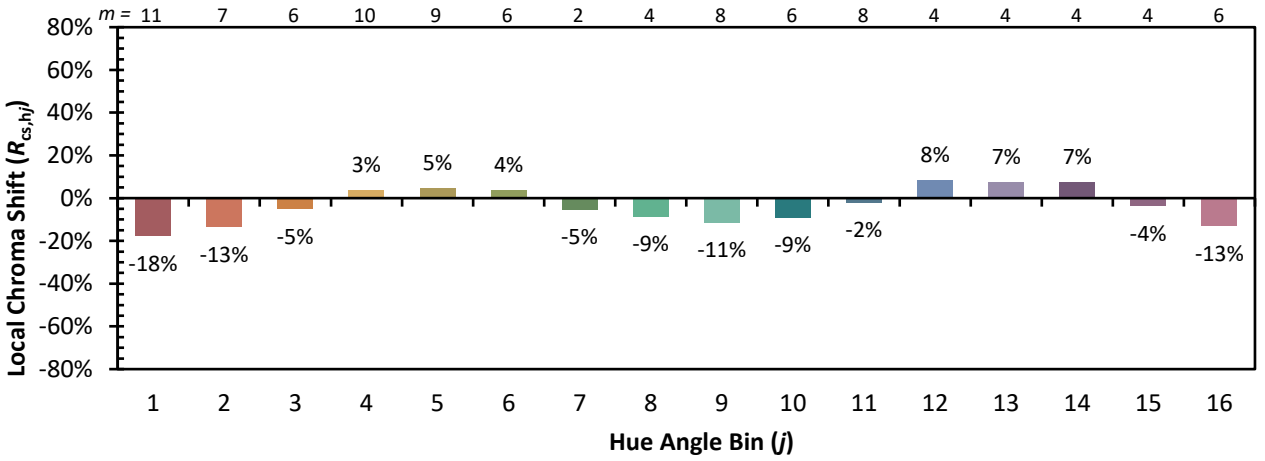
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

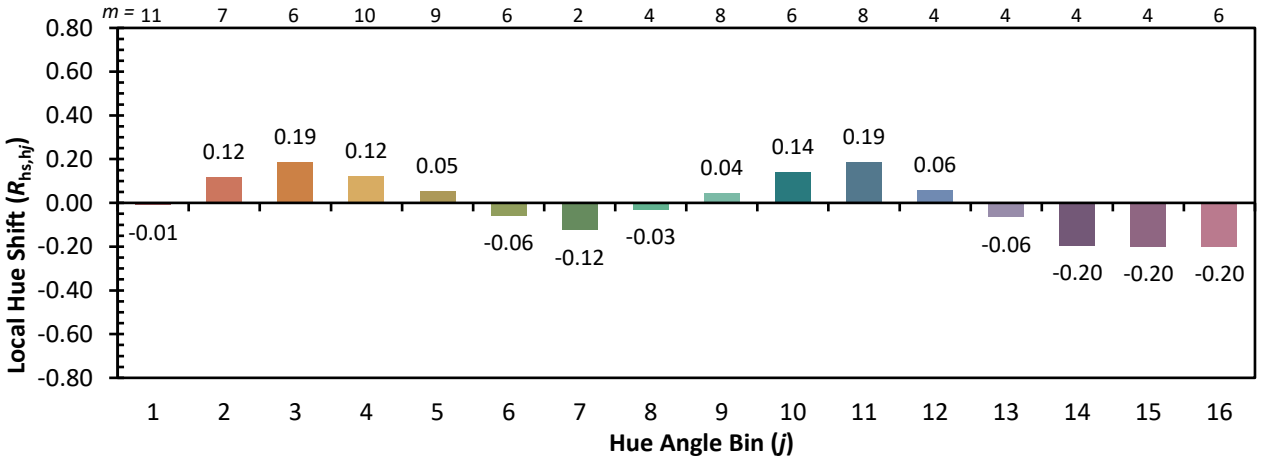


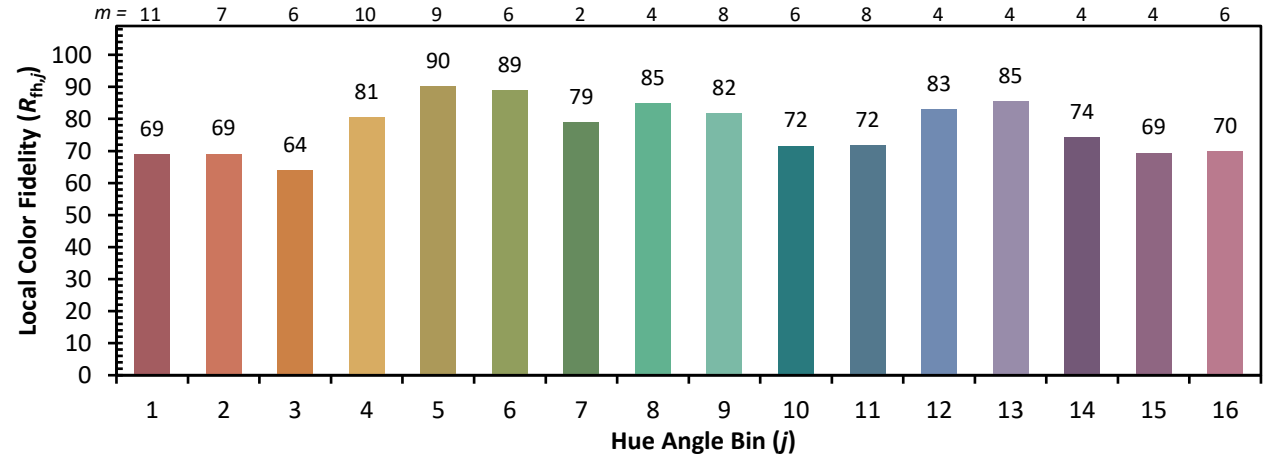
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Color Rendition by Hue-Angle Bin



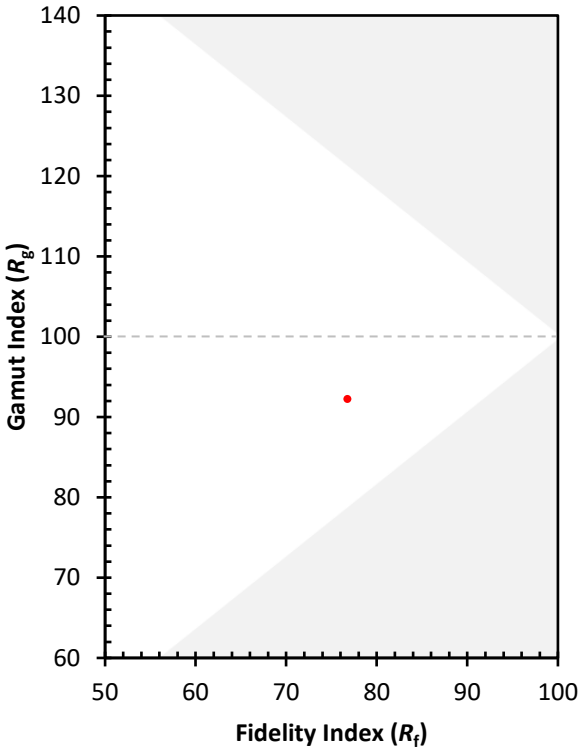


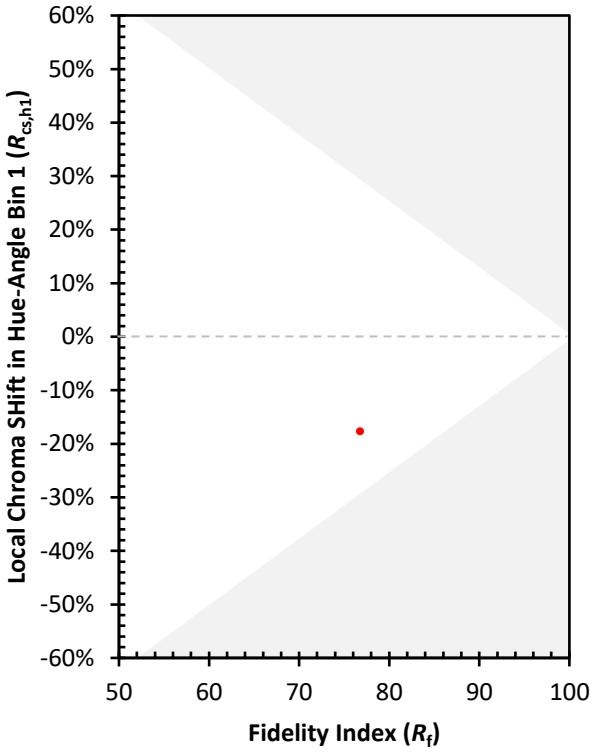


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Measure Comparisons





(END OF REPORT)