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: P1223946

Luminaire Tested: **FFX-CLB-50-730-U-VM9-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223946
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-730-U-VM9-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7037.1 lumens
Efficiency:	N/A
Efficacy:	139.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G4

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

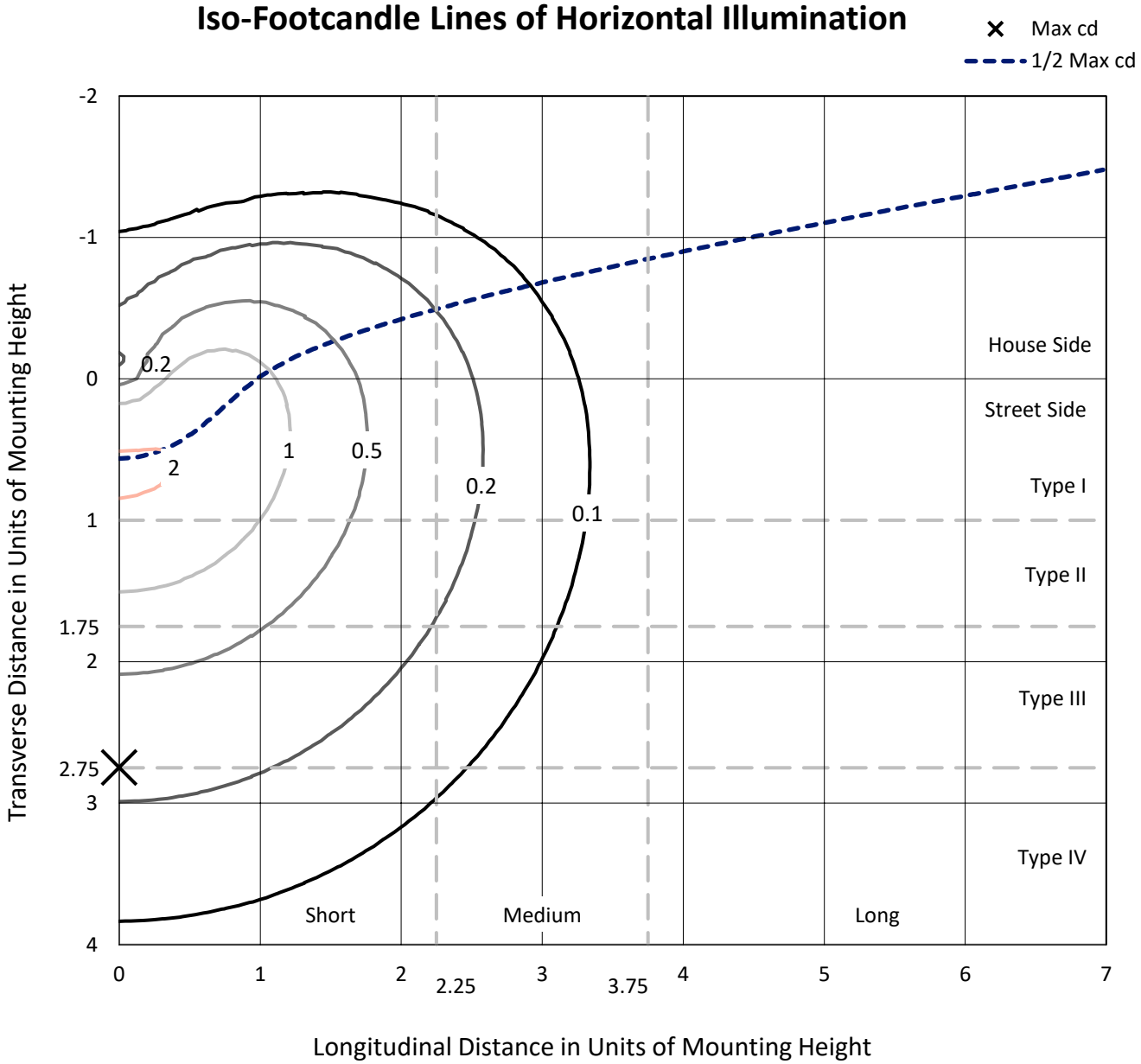


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Iso-Footcandle Lines of Horizontal Illumination



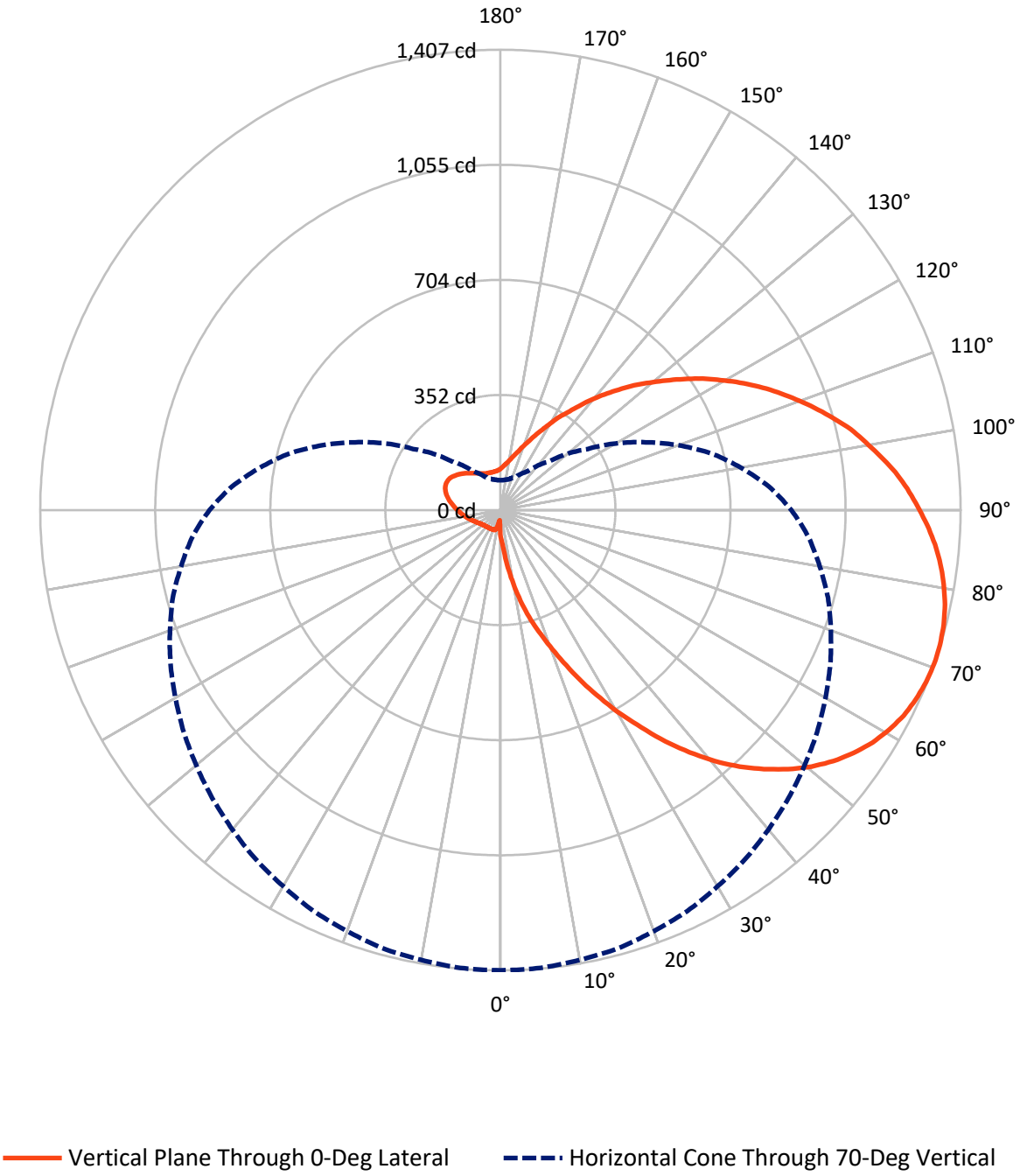
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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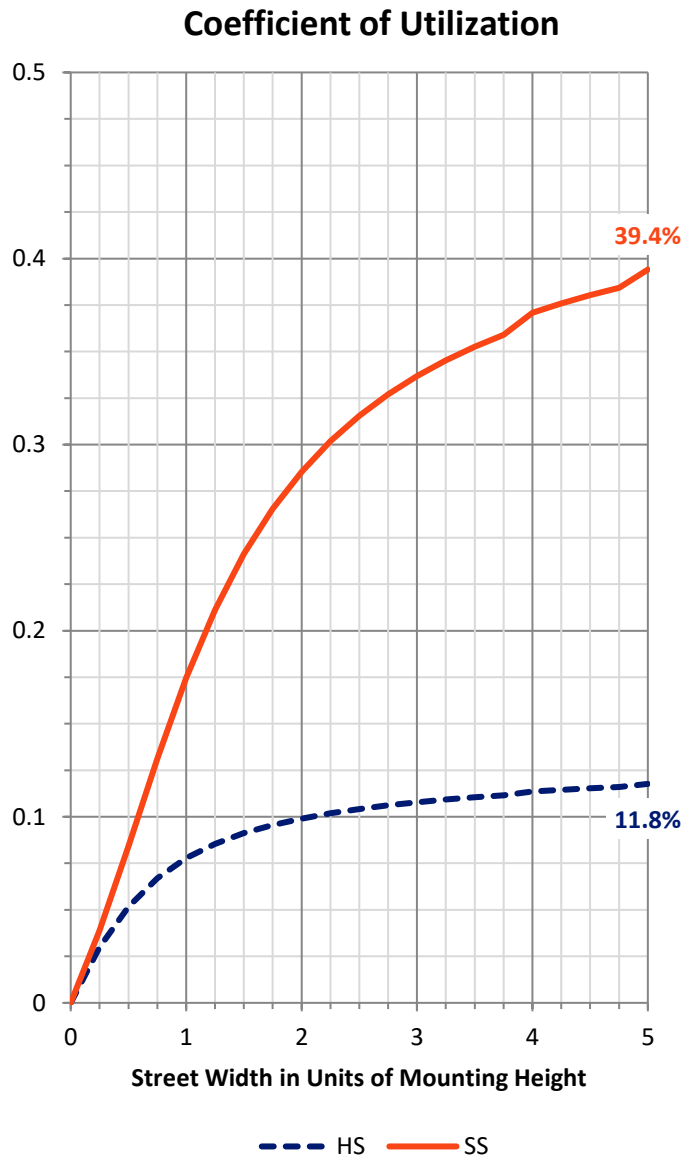
REPORT NUMBER: P1223946
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	902.3	870.6	1772.9
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	3169.6	2094.6	5264.2
	% Fixture	45.0	29.8	74.8
Total	Lumens	4071.9	2965.2	7037.1
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	0.2
10°-20°	61.5	0.9
20°-30°	161.9	2.3
30°-40°	314.4	4.5
40°-50°	489.9	7.0
50°-60°	646.3	9.2
60°-70°	758.9	10.8
70°-80°	816.5	11.6
80°-90°	811.9	11.5
90°-100°	754.8	10.7
100°-110°	662.7	9.4
110°-120°	545.1	7.7
120°-130°	410.3	5.8
130°-140°	278.1	4.0
140°-150°	168.4	2.4
150°-160°	90.6	1.3
160°-170°	42.7	0.6
170°-180°	12.4	0.2
0°-90°	4071.9	57.9
0°-180°	7037.1	100.0



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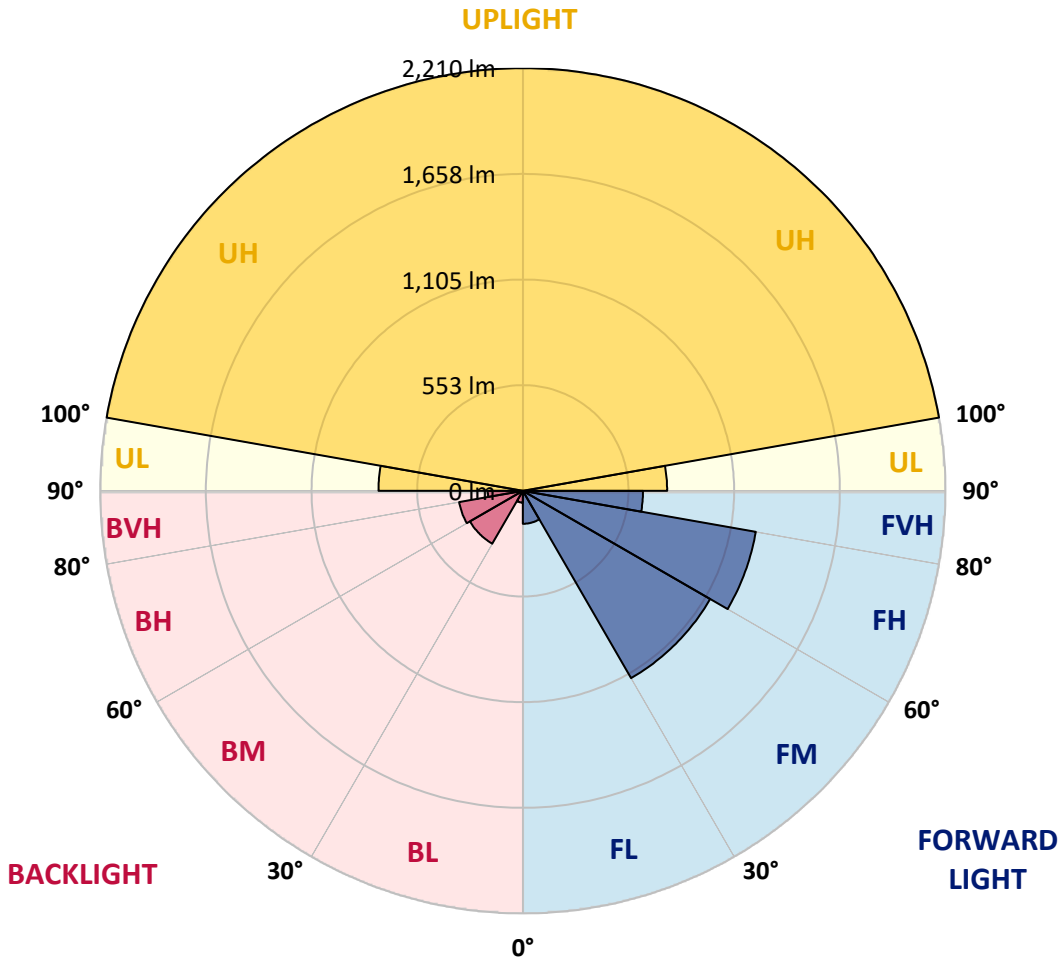
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	172.4	2.4			
FM	(30°-60°)	1131.3	16.1			
FH	(60°-80°)	1237.3	17.6			G1/1800
FVH	(80°-90°)	628.6	8.9			G4/750
BL	(0°-30°)	61.6	0.9	B0/110		
BM	(30°-60°)	319.3	4.5	B1/1000		
BH	(60°-80°)	338.1	4.8	B1/500		G1/500
BVH	(80°-90°)	183.3	2.6			G2/225
UL	(90°-100°)	754.8	10.7		U4/1000	
UH	(100°-180°)	2210.3	31.4		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	*80.5*	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
2.5°	*98.0*	98.6	98.0	98.0	99.1	98.0	97.0	93.4	89.3	84.1	81.5
5°	*137.3*	137.3	139.8	139.8	137.3	131.6	124.9	115.6	107.3	98.6	92.4
7.5°	*187.3*	188.3	186.3	181.1	178.0	166.7	160.0	148.1	137.8	125.9	120.2
10°	*239.4*	239.9	237.4	232.7	222.9	211.6	201.8	187.8	174.4	158.9	150.7
12.5°	*295.2*	294.1	289.5	279.2	273.5	260.6	247.7	233.2	215.2	196.1	186.3
15°	*348.3*	346.2	344.2	333.3	325.6	312.7	297.7	278.1	257.0	235.8	221.4
17.5°	*399.4*	394.7	391.6	386.5	374.6	363.3	344.2	321.0	298.2	270.4	255.4
20°	*454.1*	455.1	450.0	442.7	429.8	413.3	394.7	370.0	341.6	308.6	290.5
22.5°	*515.5*	515.5	512.4	503.1	489.7	468.5	446.9	421.1	386.0	351.4	329.2
25°	*583.6*	580.0	575.9	564.0	552.6	529.9	504.1	476.3	439.6	397.8	373.1
27.5°	*651.2*	649.6	645.5	632.6	618.2	594.4	568.6	532.5	492.8	443.8	418.0
30°	*722.9*	721.4	717.2	704.9	683.7	660.5	629.5	590.8	547.5	492.3	463.9
32.5°	*792.1*	792.1	786.9	774.0	751.8	723.9	690.9	647.6	599.6	542.8	508.8
35°	*868.9*	868.4	859.1	843.7	816.8	792.6	755.4	710.0	655.8	590.8	554.7
37.5°	*939.6*	937.1	927.8	911.3	886.5	855.0	813.2	763.2	707.4	638.3	597.5
40°	*1009.3*	1006.2	997.9	979.4	949.4	913.8	871.0	817.3	754.4	682.7	640.4
42.5°	*1072.3*	1071.2	1059.4	1037.2	1007.2	967.0	921.1	864.3	801.3	723.9	679.1
45°	*1129.5*	1129.5	1117.7	1093.4	1059.4	1018.6	968.0	909.7	842.6	761.6	714.1
47.5°	*1183.7*	1183.7	1172.4	1144.5	1106.8	1061.9	1010.3	950.0	878.7	795.7	745.1
50°	*1232.7*	1230.7	1217.8	1186.8	1148.6	1101.7	1047.5	984.0	912.3	826.1	775.0
52.5°	*1275.0*	1272.5	1257.5	1228.6	1185.8	1135.7	1079.0	1014.5	939.6	852.4	800.3
55°	*1310.6*	1309.1	1294.6	1261.6	1216.7	1166.7	1106.3	1039.2	965.4	874.6	822.0
57.5°	*1341.6*	1339.0	1322.0	1288.5	1243.6	1188.9	1128.0	1061.4	985.0	894.7	840.0
60°	*1364.8*	1362.2	1344.7	1311.2	1265.8	1208.0	1147.1	1079.5	1002.1	910.7	855.0
62.5°	*1383.9*	1380.8	1363.8	1328.2	1280.7	1224.0	1161.5	1092.9	1015.5	923.6	867.9
65°	*1395.8*	1393.2	1376.7	1341.1	1292.1	1234.8	1172.4	1103.2	1026.3	933.4	877.7
67.5°	*1403.5*	1401.5	1384.4	1349.9	1300.8	1242.5	1179.1	1109.9	1033.6	940.7	884.9
70°	*1407.1*	*1405.1*	*1387.5*	*1352.4*	*1303.9*	*1245.6*	*1182.2*	*1113.0*	*1037.2*	*945.8*	*889.6*
71°	*1407.1*	1405.1	1388.0	1353.0	1304.5	1246.1	1182.7	1113.5	1037.7	946.3	890.1
72.5°	*1405.6*	1404.0	1387.0	1351.4	1302.9	1245.1	1181.1	1113.0	1037.7	946.9	891.1
75°	*1399.9*	1396.8	1380.3	1345.7	1297.7	1240.0	1176.5	1108.4	1034.6	945.3	890.1
77.5°	*1389.6*	1387.0	1370.0	1336.4	1288.5	1230.1	1167.2	1100.6	1028.4	940.2	886.0
80°	*1374.6*	1372.0	1355.5	1321.0	1273.5	1217.2	1154.3	1088.8	1017.6	931.9	878.7
82.5°	*1355.5*	1353.5	1337.5	1302.9	1255.9	1200.2	1137.3	1073.3	1005.7	920.5	868.4
85°	*1332.8*	1330.3	1312.7	1278.7	1233.8	1178.0	1116.6	1054.7	988.7	906.6	856.0
87.5°	*1305.5*	1303.9	1286.4	1253.9	1209.0	1153.8	1095.0	1034.6	969.6	891.1	842.1
90°	*1275.6*	1275.0	1256.5	1224.0	1179.6	1127.5	1069.2	1010.3	947.4	872.6	825.1
92.5°	*1245.6*	1245.6	1227.1	1193.5	1149.7	1098.1	1042.8	986.1	926.2	854.0	808.6
95°	*1212.6*	1209.0	1191.4	1161.5	1117.7	1068.1	1015.0	959.2	901.5	832.8	790.0
97.5°	*1173.9*	1172.9	1155.8	1123.9	1083.6	1036.1	984.5	932.9	877.2	811.2	770.4
100°	*1136.2*	1134.2	1118.2	1088.8	1047.5	1002.1	953.6	904.0	851.4	789.0	749.7
102.5°	*1099.1*	1093.9	1077.4	1047.5	1011.4	967.0	921.6	876.2	824.6	765.2	728.6
105°	*1054.2*	1053.7	1036.6	1008.3	971.6	932.4	889.6	845.2	798.3	741.0	706.9
107.5°	*1010.3*	1010.3	994.3	966.5	931.9	894.2	856.0	814.2	770.9	715.7	684.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*965.4*	964.9	950.5	925.7	892.7	856.6	821.5	783.3	739.9	691.4	661.0
112.5°	*921.1*	920.0	906.1	880.8	850.4	821.0	785.9	750.8	711.0	666.2	637.3
115°	*876.2*	875.1	860.2	838.0	810.1	779.7	750.3	716.7	682.2	637.3	612.0
117.5°	*829.7*	828.7	816.3	794.6	768.3	744.1	714.7	685.8	650.7	609.9	584.6
120°	*782.3*	782.8	770.4	750.8	726.5	703.8	678.0	651.7	619.2	580.5	556.2
122.5°	*737.4*	733.8	725.5	708.0	686.3	665.1	643.5	616.6	586.2	549.5	528.4
125°	*689.4*	688.3	680.1	662.5	644.0	627.5	607.3	583.1	555.2	518.1	499.0
127.5°	*642.9*	644.5	635.2	622.3	604.2	590.3	569.7	548.5	521.7	488.1	470.1
130°	*599.6*	598.6	593.4	580.0	565.0	550.6	535.1	516.0	490.7	457.2	440.7
132.5°	*559.3*	554.7	550.1	538.7	526.3	514.5	501.0	481.9	456.1	426.7	412.3
135°	*515.5*	515.5	508.3	498.5	489.7	478.3	464.9	447.4	425.2	399.4	382.9
137.5°	*475.2*	473.2	468.5	460.8	452.5	444.3	432.9	415.4	395.8	371.0	356.6
140°	*437.1*	435.5	431.4	424.7	418.0	410.2	399.9	384.9	366.9	343.1	330.8
142.5°	*397.3*	398.4	394.7	390.1	382.4	377.2	367.9	354.5	338.5	317.9	306.0
145°	*361.7*	362.2	360.7	356.0	350.4	345.2	335.4	325.6	310.1	291.5	282.8
147.5°	*332.3*	330.2	327.1	324.6	319.4	315.3	307.5	298.2	283.8	267.8	259.5
150°	*299.3*	300.8	297.7	294.6	291.5	285.9	280.2	272.4	259.0	246.1	237.4
152.5°	*271.4*	272.4	269.9	268.3	265.2	260.6	254.9	247.7	237.4	226.0	217.8
155°	*246.6*	246.6	246.6	244.6	241.0	237.9	232.2	225.5	216.7	206.4	200.7
157.5°	*223.9*	224.5	224.5	221.9	219.3	216.7	212.1	206.4	198.7	189.9	185.8
160°	*205.9*	204.9	204.3	202.3	200.2	198.1	194.0	189.4	182.7	175.4	171.8
162.5°	*187.8*	187.8	186.8	185.2	183.7	180.6	178.0	173.4	168.7	163.6	159.4
165°	*173.9*	173.4	173.4	171.3	169.8	167.2	164.6	161.5	157.4	152.7	149.6
167.5°	*162.0*	161.0	160.5	159.4	157.4	155.8	153.3	150.7	147.6	144.5	141.9
170°	*150.7*	151.2	150.2	149.1	148.1	146.5	144.5	142.4	139.8	136.7	135.7
172.5°	*142.9*	142.4	141.9	140.9	139.8	138.3	137.3	135.2	133.6	131.6	130.5
175°	*135.7*	135.7	135.2	134.2	133.1	132.1	131.1	130.0	129.0	127.5	126.9
177.5°	*130.0*	130.0	130.0	129.0	128.5	128.0	126.9	126.4	125.9	124.9	124.9
180°	*124.4*	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
2.5°	78.9	72.2	66.6	61.4	57.3	53.7	51.6	48.0	45.4	43.9
5°	88.8	78.9	70.7	62.4	56.2	49.5	42.8	36.1	32.0	31.5
7.5°	112.5	101.7	89.3	78.4	66.0	55.7	47.0	40.2	37.7	37.2
10°	142.4	126.4	109.9	93.9	77.9	65.0	55.7	49.5	46.4	45.9
12.5°	175.4	153.8	132.6	112.0	92.9	78.4	67.1	59.9	56.2	56.2
15°	209.5	182.7	155.8	130.5	108.4	90.3	76.4	67.1	63.0	62.4
17.5°	239.4	209.0	177.0	147.1	120.2	97.5	81.0	69.7	64.5	64.0
20°	273.5	234.8	198.1	161.0	129.5	103.2	83.6	70.7	64.0	63.5
22.5°	309.6	265.7	220.3	177.0	139.3	108.9	86.2	71.7	64.5	63.5
25°	350.4	297.7	243.0	193.0	149.1	114.0	88.8	72.8	65.0	64.0
27.5°	389.1	330.8	267.3	207.9	157.9	118.7	90.8	73.8	65.5	64.5
30°	430.3	363.3	291.0	223.9	167.2	123.3	92.9	74.3	65.5	64.5
32.5°	472.1	394.7	315.8	238.4	174.9	126.4	93.9	74.8	66.0	65.0
35°	516.5	428.8	339.0	253.4	182.1	129.5	94.9	75.3	66.0	65.0
37.5°	557.3	461.3	361.7	266.3	188.3	132.1	96.0	75.3	66.6	65.5
40°	593.9	490.7	381.8	277.6	193.5	133.6	96.5	75.9	67.1	66.0
42.5°	630.0	519.6	399.9	286.9	197.6	134.7	97.0	76.4	67.6	66.6
45°	662.0	543.9	416.4	295.7	200.7	135.7	97.5	76.9	68.1	67.1
47.5°	690.4	566.6	431.9	302.9	202.8	136.2	98.0	77.4	69.1	68.1
50°	717.8	588.2	443.8	308.6	204.9	136.7	98.0	78.4	70.7	69.7
52.5°	741.0	605.8	454.6	313.2	205.9	137.3	99.1	79.5	71.7	71.2
55°	761.1	621.3	464.4	316.8	206.9	137.3	100.1	81.0	73.8	72.8
57.5°	777.6	633.6	471.1	318.9	206.9	137.8	100.6	83.1	75.9	74.8
60°	792.1	644.5	477.3	321.5	207.4	138.3	102.2	85.1	78.4	77.9
62.5°	803.9	652.7	481.9	323.0	207.9	139.8	104.2	87.7	81.0	80.5
65°	813.2	660.0	485.6	324.0	208.5	140.9	106.3	90.3	84.6	84.1
67.5°	819.4	665.1	488.1	324.6	209.0	142.4	108.9	93.9	88.2	87.2
70°	*824.1*	*668.2*	*489.7*	*325.1*	*210.0*	*144.0*	*112.0*	*97.0*	*91.8*	*91.3*
71°	825.1	668.7	490.2	325.1	210.5	145.0	113.0	98.6	93.4	92.9
72.5°	825.6	669.3	490.2	325.1	211.0	146.5	115.1	101.1	96.0	95.5
75°	825.1	668.7	489.7	325.1	212.1	149.1	118.7	104.7	100.1	99.6
77.5°	821.5	666.7	488.1	325.1	213.6	152.2	122.8	109.9	104.7	104.2
80°	815.3	662.5	485.6	324.6	215.2	155.8	126.9	114.6	109.4	108.9
82.5°	807.0	656.4	481.9	324.6	217.2	158.9	131.1	118.7	114.6	114.0
85°	796.2	649.1	478.3	324.0	219.8	163.1	136.2	124.4	120.2	119.2
87.5°	783.3	640.4	474.2	324.0	222.4	167.7	141.4	129.5	125.4	124.4
90°	768.8	630.6	470.1	324.0	225.5	172.3	147.1	135.2	130.5	130.0
92.5°	754.4	621.3	465.9	324.6	229.6	177.5	152.7	141.4	136.7	136.7
95°	737.9	609.9	461.3	325.6	233.7	183.2	159.4	147.6	142.9	142.4
97.5°	721.4	599.6	457.7	327.1	238.4	189.9	165.6	154.3	149.6	148.6
100°	702.8	588.8	454.1	329.2	244.1	196.1	172.3	161.0	156.3	155.8
102.5°	684.7	576.9	450.0	331.8	249.7	203.3	179.6	167.7	163.1	162.5
105°	665.1	564.5	445.3	333.9	255.4	210.0	186.3	173.9	168.7	168.7
107.5°	646.0	551.6	440.7	336.4	261.1	216.7	192.5	180.1	174.4	173.9

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

Scaled Data Report

REPORT NUMBER: P1223946
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	624.4	537.7	435.0	338.0	266.3	222.4	198.1	184.7	179.1	178.5
112.5°	604.8	522.7	428.8	338.5	270.9	227.6	202.8	188.9	183.2	182.1
115°	580.0	507.2	420.5	337.5	273.5	231.7	205.9	191.4	185.2	184.2
117.5°	556.2	489.7	411.8	334.9	275.0	233.7	207.9	193.0	186.3	185.2
120°	532.0	470.1	399.4	330.2	273.5	233.7	207.9	192.0	185.2	184.7
122.5°	504.6	449.4	386.5	323.5	270.9	231.7	205.9	190.4	183.2	182.7
125°	476.3	427.2	371.0	314.2	265.7	228.6	202.8	187.3	180.1	179.6
127.5°	448.9	404.5	355.0	303.4	258.5	223.4	198.7	182.7	175.4	174.4
130°	422.1	380.8	336.9	290.5	249.7	216.7	193.0	178.0	170.8	169.8
132.5°	394.2	358.1	318.9	278.1	240.5	209.5	186.8	172.3	165.6	164.6
135°	367.9	334.4	299.3	263.2	229.6	201.2	180.1	166.7	160.0	159.4
137.5°	342.6	312.2	281.2	248.7	218.8	193.0	173.4	161.0	154.8	153.8
140°	316.8	290.5	262.6	234.8	206.9	184.2	166.7	154.8	149.1	148.1
142.5°	294.6	269.9	245.1	219.3	195.6	174.9	159.4	148.6	144.0	143.4
145°	271.4	249.7	227.6	205.4	184.7	166.7	152.7	143.4	138.8	138.3
147.5°	250.8	230.1	211.0	192.0	173.9	157.9	146.0	138.3	134.7	134.2
150°	229.6	213.1	196.6	179.1	163.6	150.2	140.4	133.6	130.0	129.5
152.5°	211.0	197.1	182.1	168.7	154.3	143.4	135.2	129.0	126.4	125.9
155°	195.0	183.2	170.8	158.4	147.1	138.3	131.1	125.9	123.8	123.8
157.5°	181.1	170.8	160.5	150.2	140.9	133.1	127.5	123.8	121.8	121.3
160°	167.7	159.4	150.2	142.4	135.2	129.5	124.9	121.8	120.2	119.7
162.5°	156.9	149.6	143.4	136.7	131.1	126.4	122.8	120.2	119.2	119.2
165°	147.6	142.4	136.7	132.1	127.5	123.8	121.3	119.7	118.7	118.7
167.5°	140.4	135.7	132.1	128.0	124.9	122.3	120.2	119.2	118.7	118.2
170°	134.2	131.1	128.0	125.4	122.8	121.3	119.7	119.2	118.7	118.7
172.5°	129.5	127.5	125.4	123.3	121.8	120.2	119.7	119.2	119.2	119.2
175°	125.9	124.9	123.3	122.3	121.3	120.7	120.2	120.2	120.2	120.2
177.5°	124.4	123.3	122.8	122.3	121.8	121.8	121.8	122.3	122.3	122.3
180°	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4

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

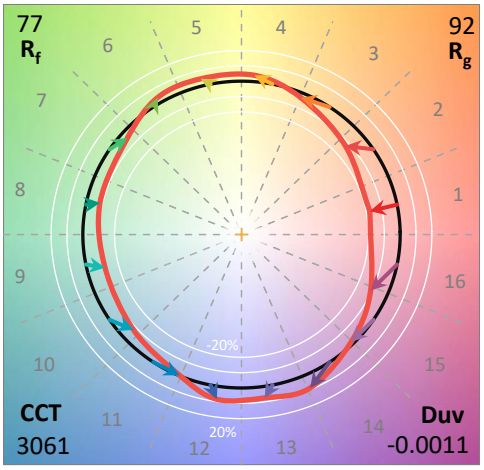
Test Information

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

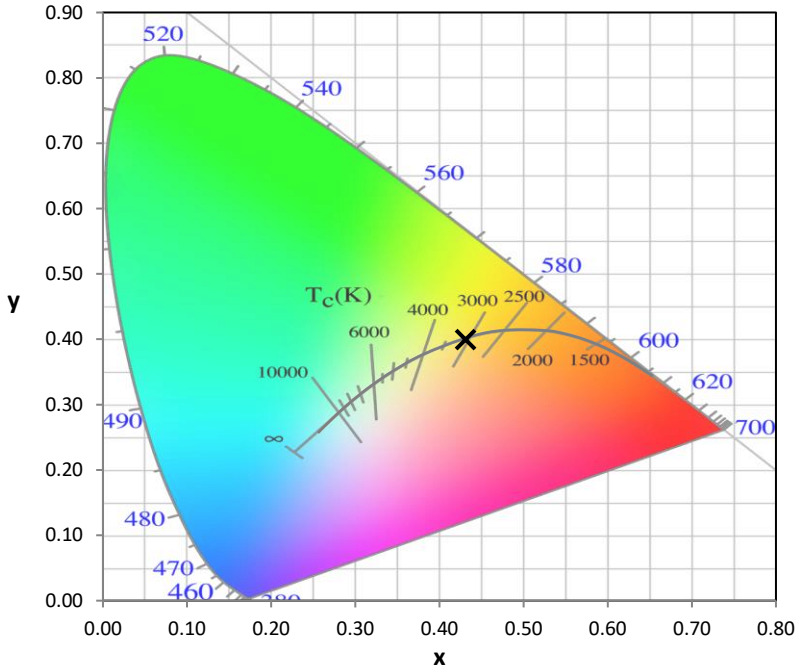
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

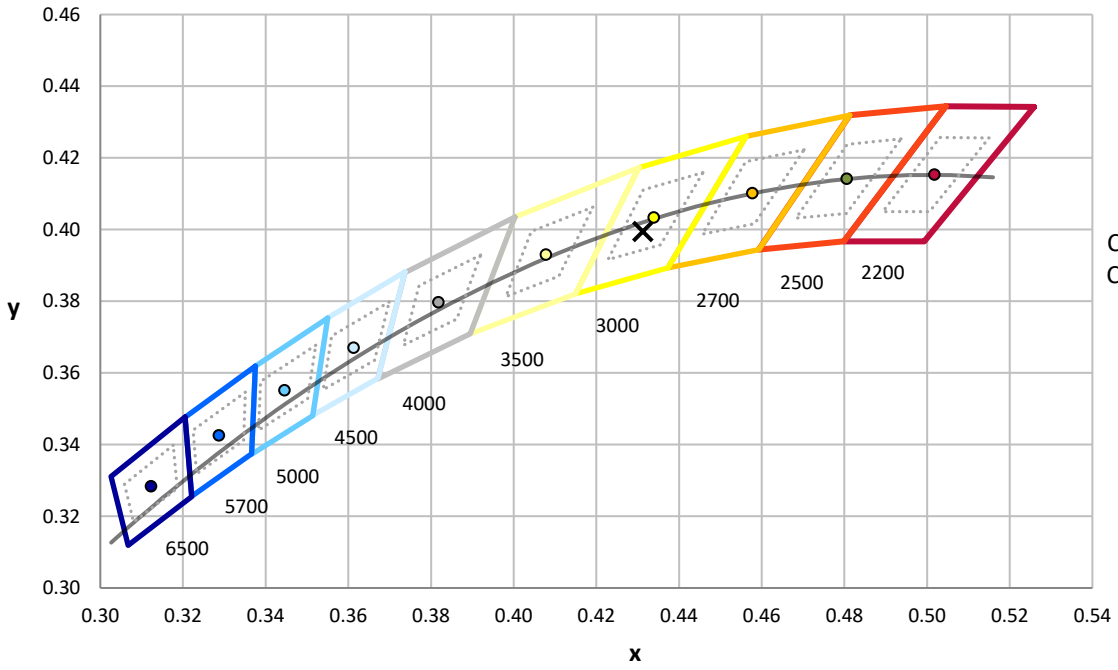
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

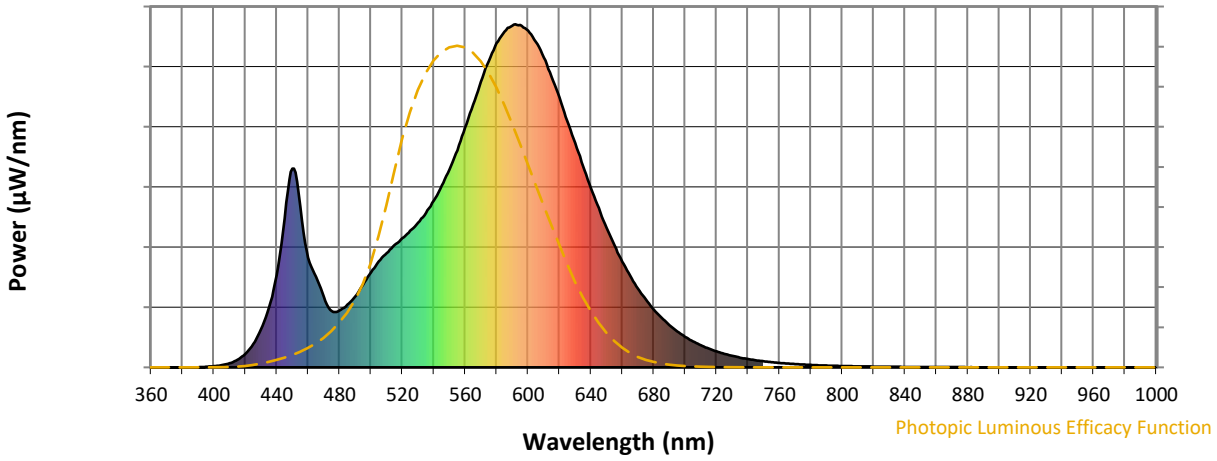


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

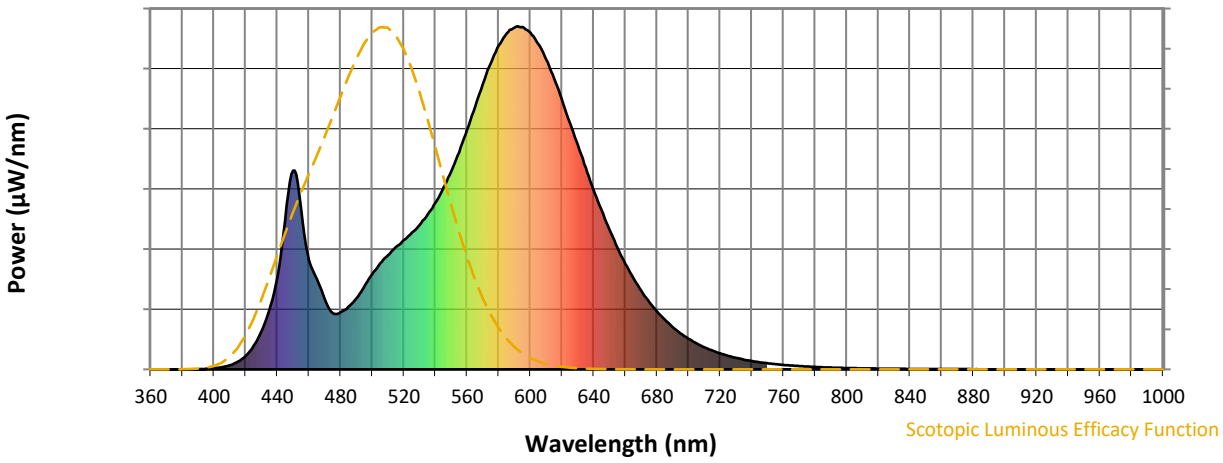


Photopic Lumens: NR

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

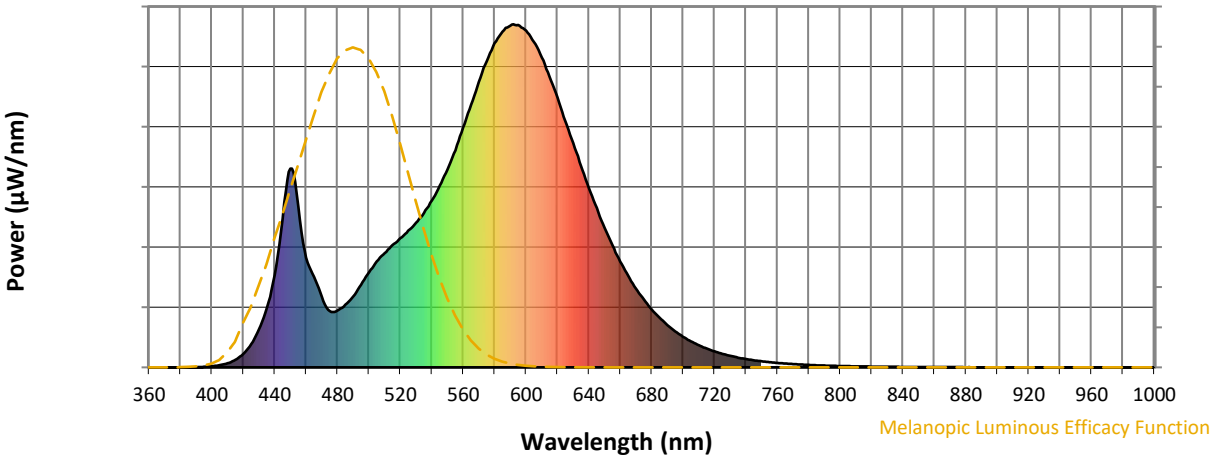


Scotopic Lumens: NR **S/P: 1.29**

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			

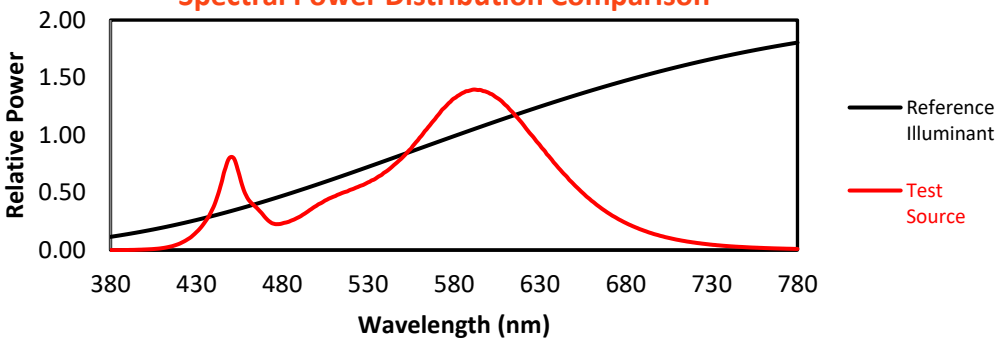
REPORT NUMBER: SP1-2501-332-4

TM-30-18

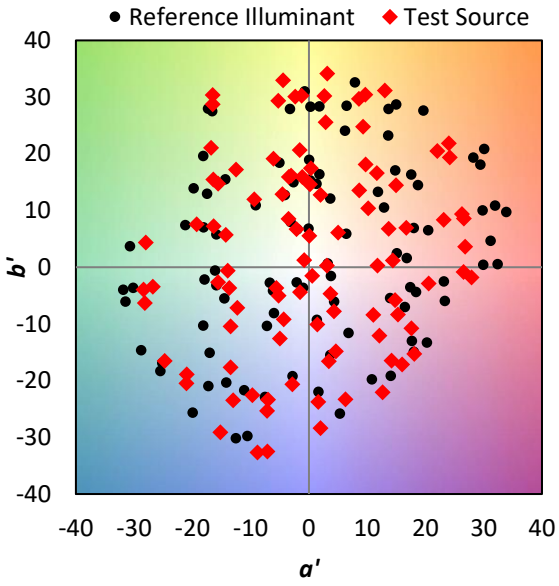
Summary

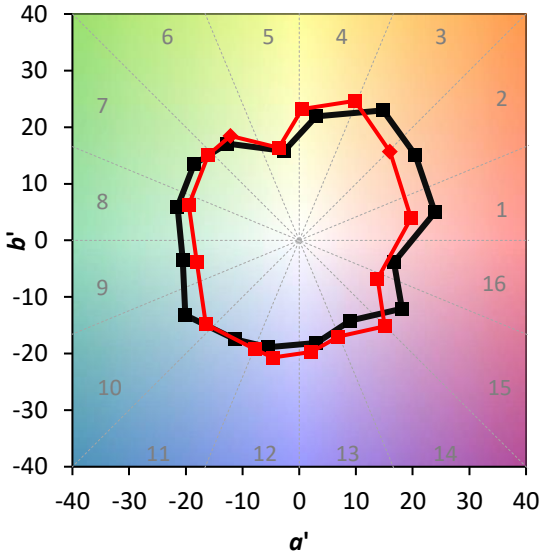
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

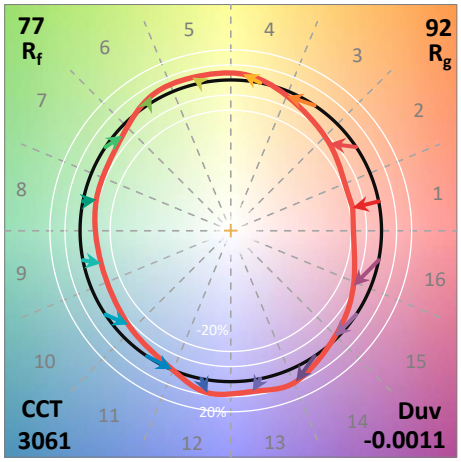
Spectral Power Distribution Comparison

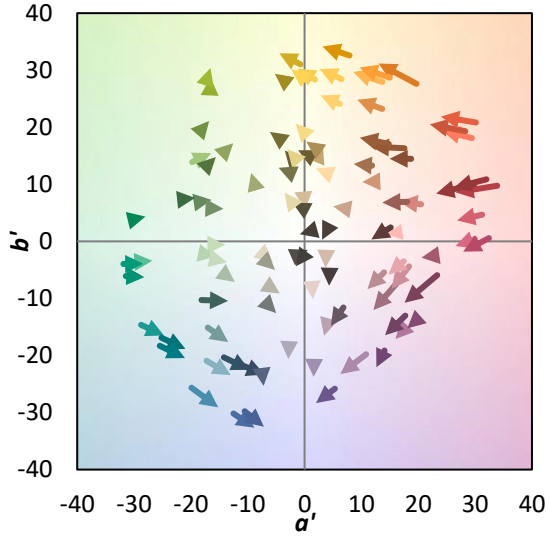


Color Vector Graphics







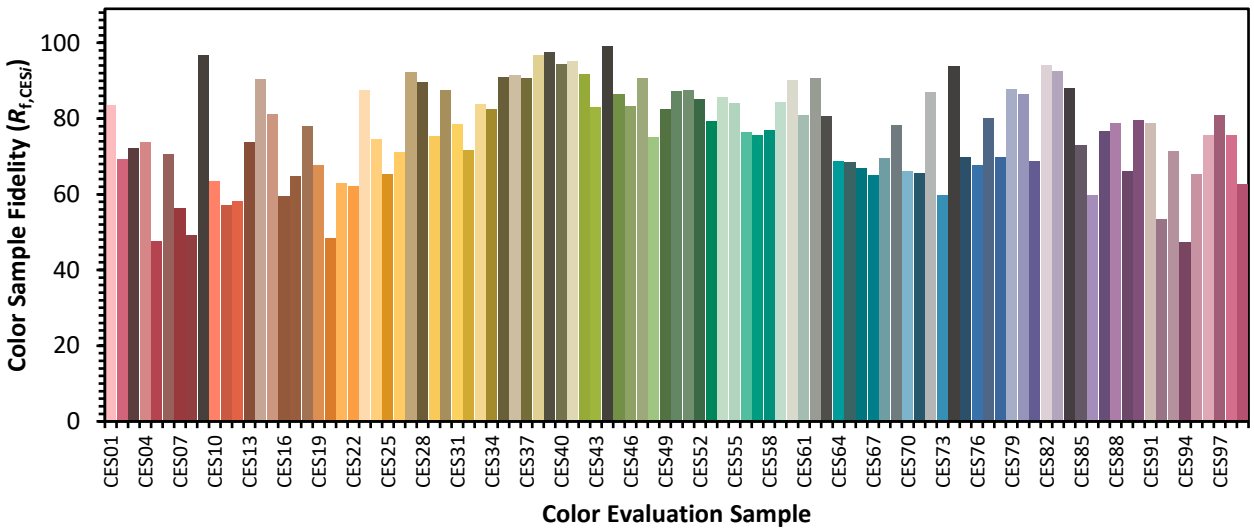


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

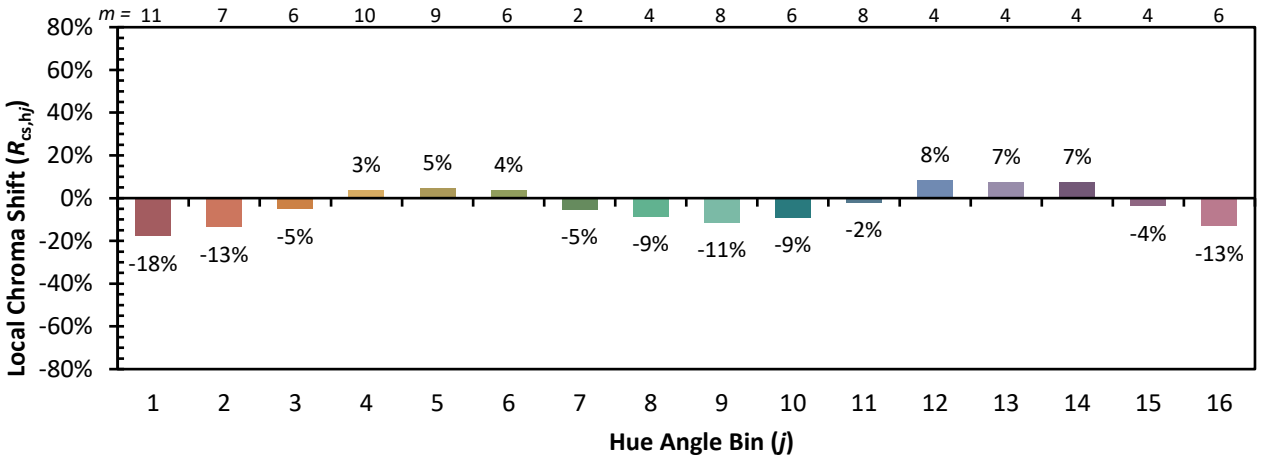
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

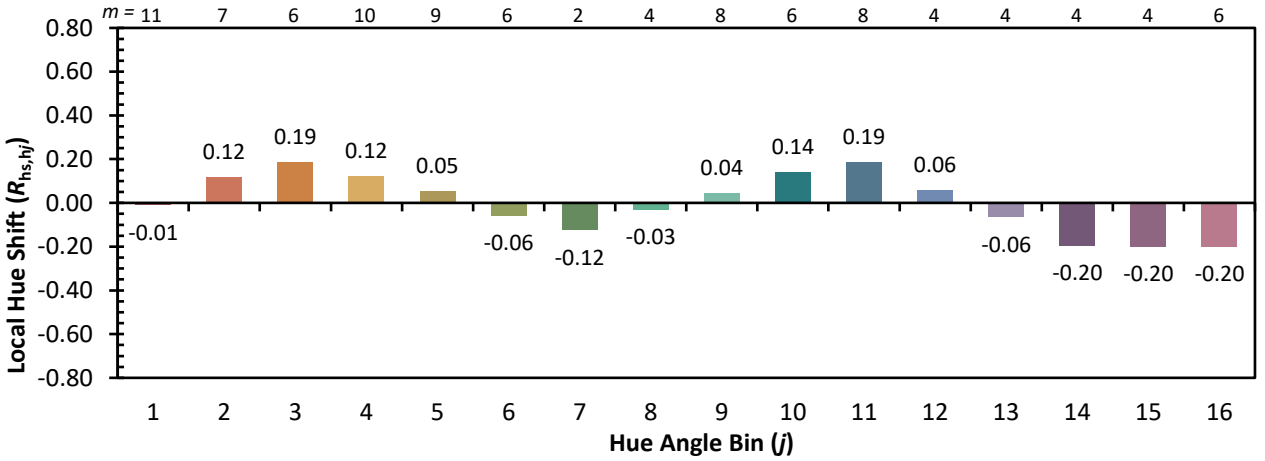


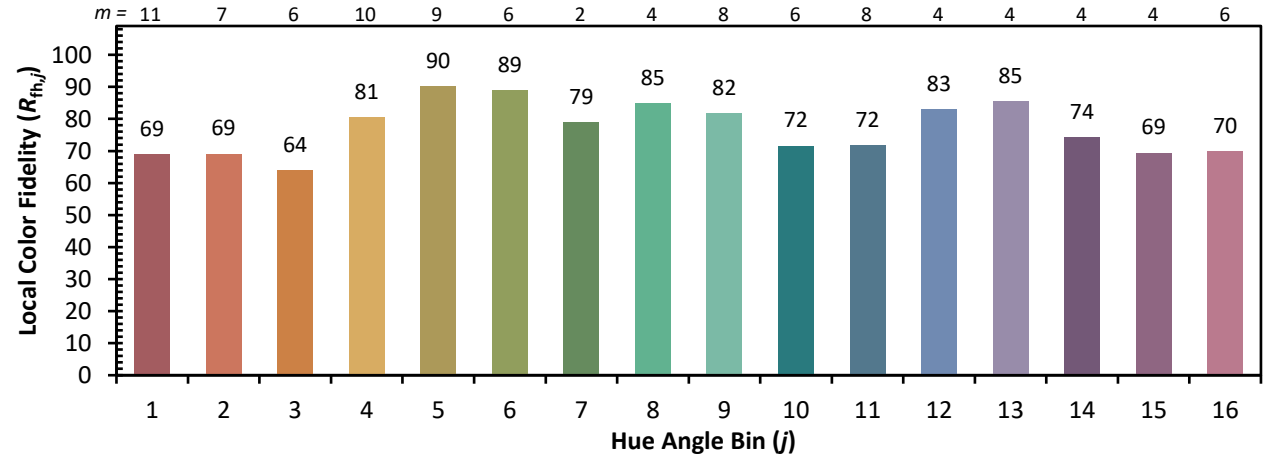
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Color Rendition by Hue-Angle Bin



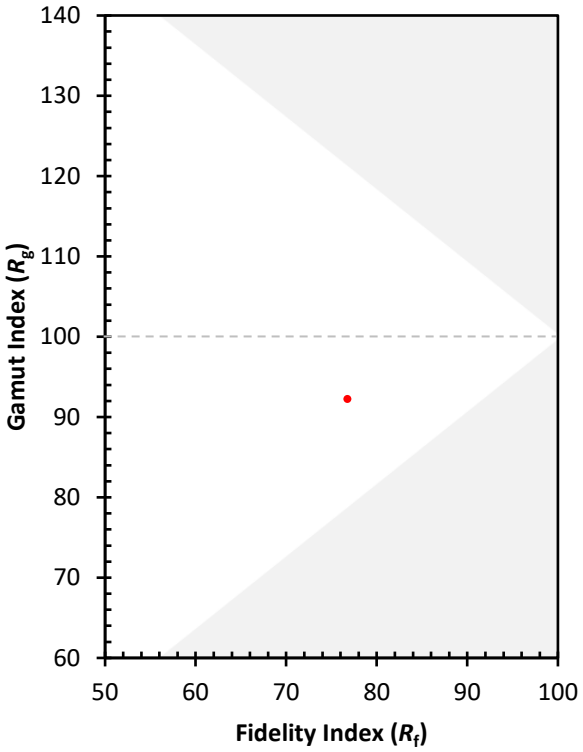


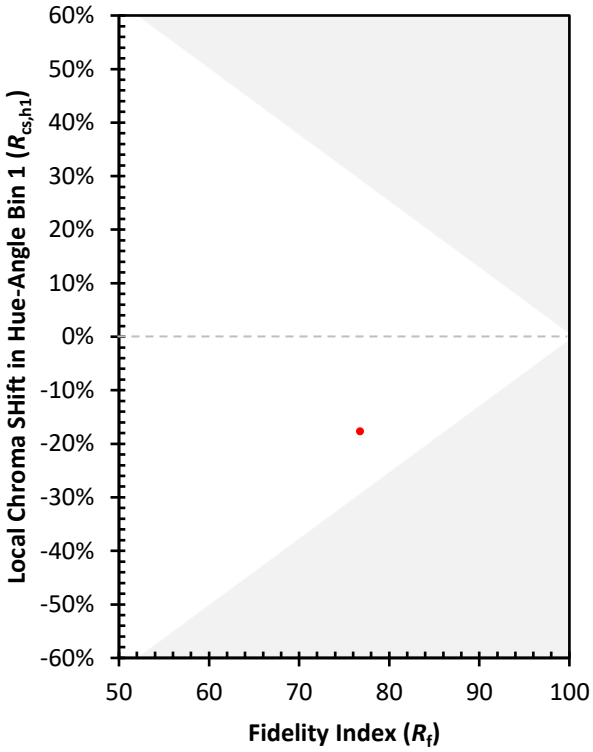


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Measure Comparisons





(END OF REPORT)