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: P1223919

Luminaire Tested: **FFX-CLB-50-750-U-VM9-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223919
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-750-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8051.2 lumens
Efficiency:	N/A
Efficacy:	159.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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

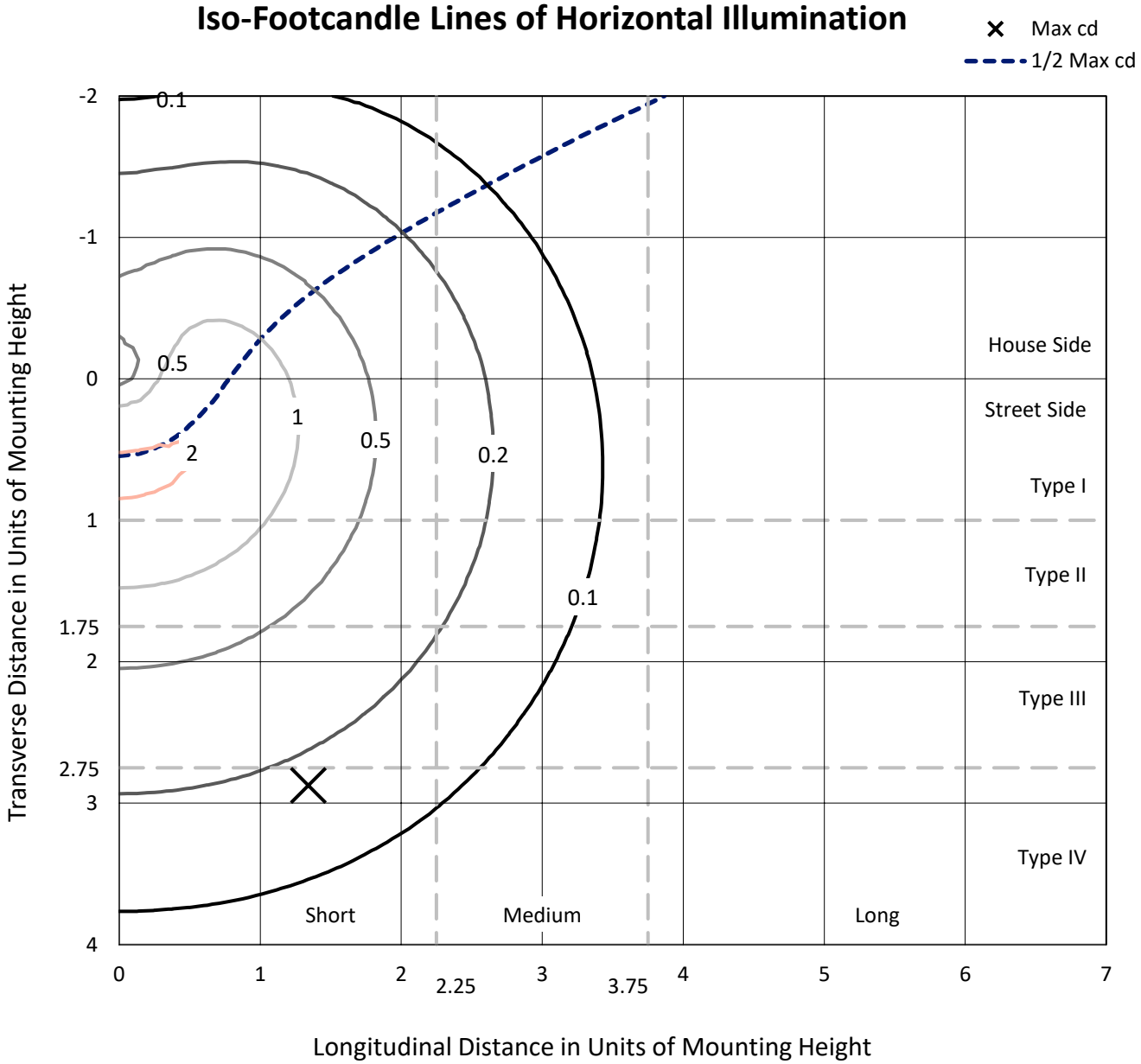


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Iso-Footcandle Lines of Horizontal Illumination



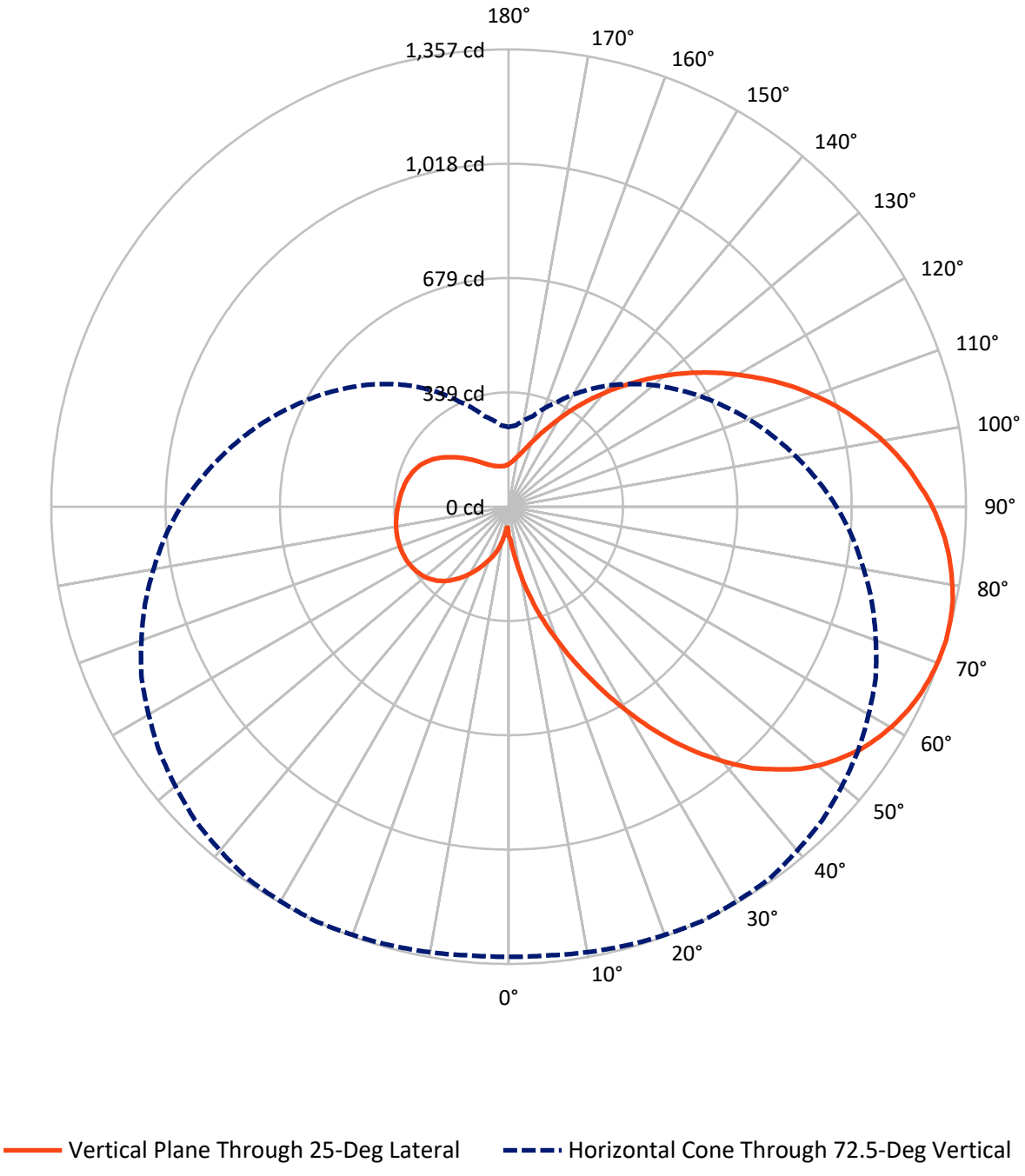
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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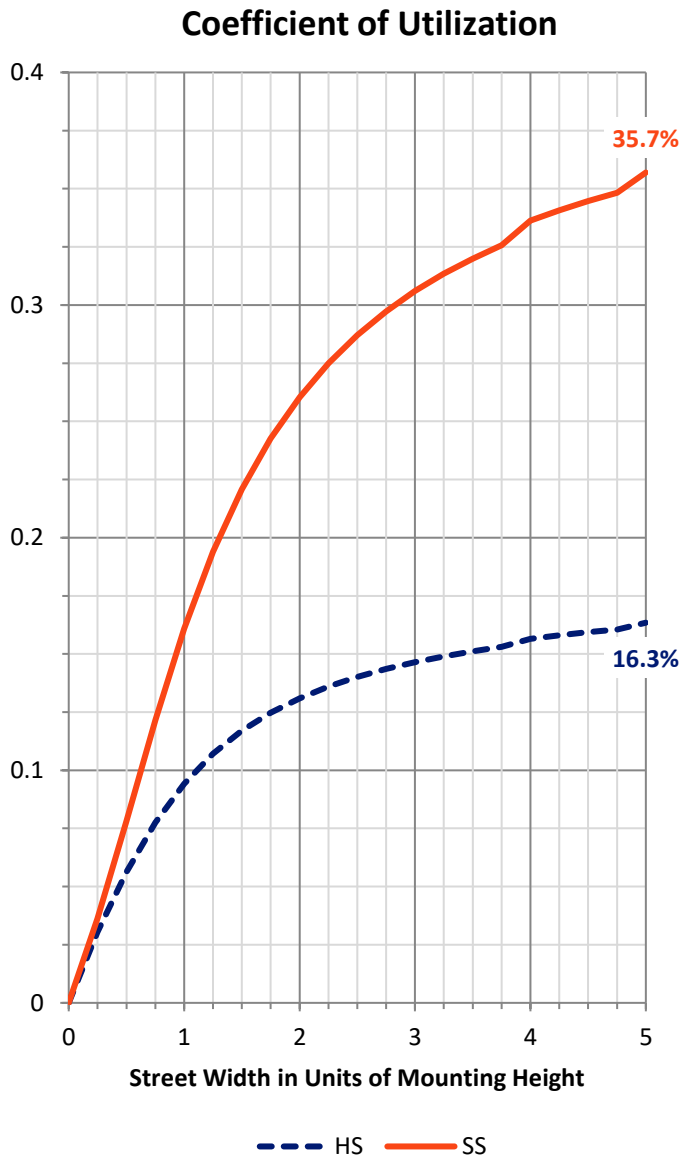
REPORT NUMBER: P1223919
CATALOG NUMBER: FFX-CLB-50-750-U-VM9-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1450.6	1110.1	2560.7
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	3280.8	2209.7	5490.5
	% Fixture	40.7	27.4	68.2
Total	Lumens	4731.4	3319.8	8051.2
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.1
10°-20°	68.3	0.8
20°-30°	186.2	2.3
30°-40°	369.0	4.6
40°-50°	576.0	7.2
50°-60°	755.0	9.4
60°-70°	881.0	10.9
70°-80°	945.3	11.7
80°-90°	939.1	11.7
90°-100°	871.2	10.8
100°-110°	758.7	9.4
110°-120°	613.9	7.6
120°-130°	451.9	5.6
130°-140°	298.9	3.7
140°-150°	176.8	2.2
150°-160°	93.0	1.2
160°-170°	43.1	0.5
170°-180°	12.4	0.2
0°-90°	4731.4	58.8
0°-180°	8051.2	100.0



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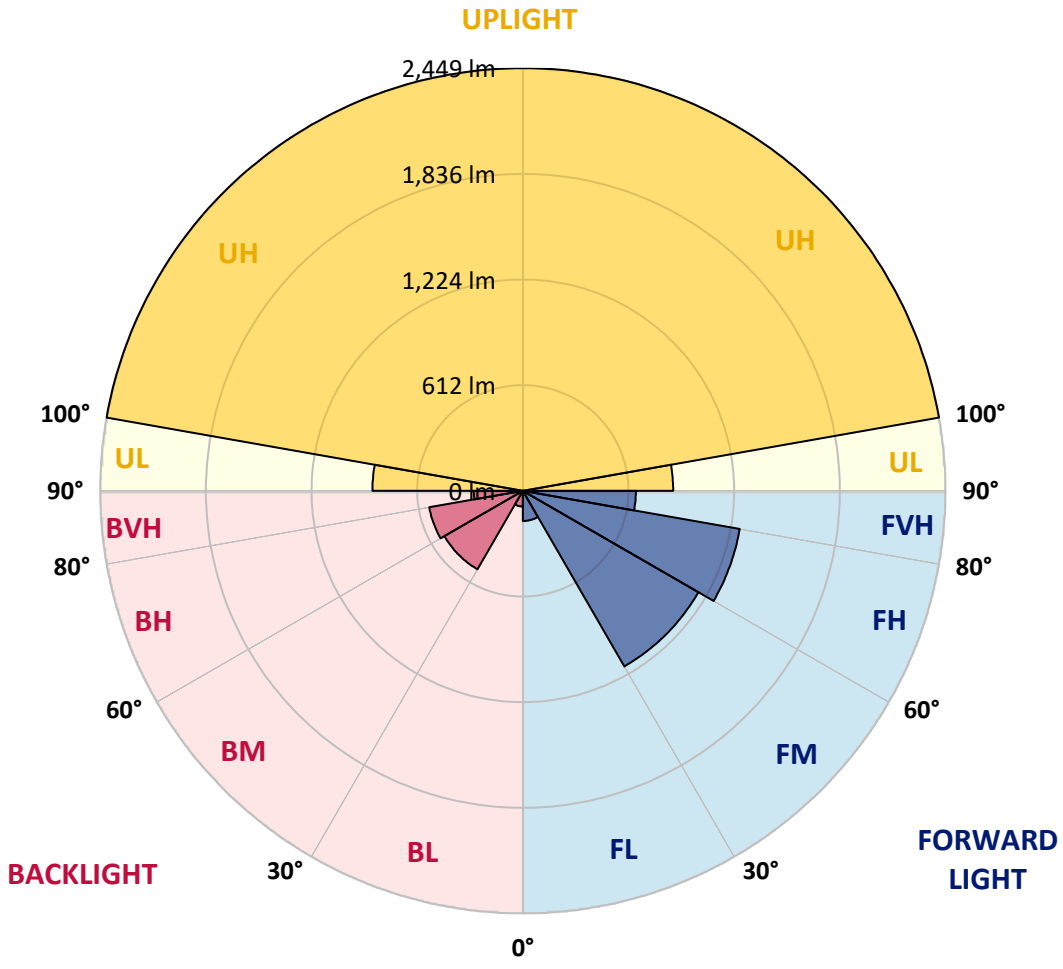
Scaled Data Report

REPORT NUMBER: P1223919
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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°)	174.9	2.2			
FM	(30°-60°)	1175.0	14.6			
FH	(60°-80°)	1276.2	15.9			G1/1800
FVH	(80°-90°)	654.7	8.1			G4/750
BL	(0°-30°)	91.1	1.1	B0/110		
BM	(30°-60°)	524.9	6.5	B1/1000		
BH	(60°-80°)	550.2	6.8	B2/1000		G2/1000
BVH	(80°-90°)	284.4	3.5			G3/500
UL	(90°-100°)	871.2	10.8		U4/1000	
UH	(100°-180°)	2448.5	30.4		U5	

BUG Rating: B2-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	94.0	94.0	95.6	96.1	96.7	96.7	97.2	96.7	94.5	91.8	90.2
5°	128.2	127.1	126.6	127.1	127.1	124.9	121.7	115.7	111.4	104.3	101.6
7.5°	171.7	170.6	168.9	167.3	167.3	161.9	156.4	151.6	144.0	134.2	130.9
10°	222.2	220.0	217.8	214.6	210.8	205.9	198.8	190.7	180.3	170.0	163.5
12.5°	271.6	271.1	270.0	265.1	258.0	253.7	246.1	234.7	221.6	207.5	202.1
15°	328.6	325.9	324.3	320.5	316.2	307.5	295.0	284.1	268.9	249.3	242.8
17.5°	381.3	380.3	377.0	375.9	368.8	359.6	345.5	329.2	310.7	292.8	283.0
20°	438.9	441.6	437.8	434.6	422.1	412.8	399.8	384.1	361.8	336.3	325.9
22.5°	503.0	505.7	499.8	499.8	489.4	474.2	455.8	437.3	409.6	383.0	369.9
25°	577.4	578.5	569.3	565.5	557.9	542.7	520.4	498.7	466.6	432.9	417.7
27.5°	648.1	650.2	644.8	639.9	627.4	612.7	588.3	562.8	526.4	486.2	469.3
30°	727.9	723.6	721.4	712.7	699.7	684.5	657.3	629.0	587.2	540.0	519.3
32.5°	798.5	795.3	796.9	789.8	770.8	754.0	728.5	694.2	645.3	595.9	572.6
35°	871.3	873.0	870.8	863.2	851.8	829.5	794.7	756.2	707.3	649.1	624.2
37.5°	945.7	941.9	939.2	932.7	921.3	896.3	862.1	818.6	762.1	700.8	673.0
40°	1009.8	1012.6	1009.3	998.4	988.1	960.4	922.9	873.5	815.4	749.6	717.6
42.5°	1070.7	1069.6	1066.9	1060.9	1046.8	1017.4	980.5	930.0	864.3	791.5	757.8
45°	1119.6	1120.7	1120.7	1112.0	1098.9	1072.3	1029.9	978.3	908.3	831.7	796.4
47.5°	1166.3	1167.9	1166.8	1163.0	1148.9	1117.4	1074.5	1021.2	946.8	868.1	828.4
50°	1207.6	1207.6	1207.0	1203.8	1190.2	1159.8	1115.8	1058.7	981.6	898.5	859.4
52.5°	1241.8	1241.3	1241.8	1238.0	1223.9	1196.2	1150.5	1089.7	1012.6	924.0	886.0
55°	1269.0	1267.3	1271.1	1269.5	1257.0	1226.0	1177.7	1118.5	1038.6	948.5	908.3
57.5°	1290.7	1290.1	1295.0	1293.4	1280.9	1249.9	1202.1	1141.8	1060.4	968.6	924.6
60°	1308.6	1307.5	1314.0	1314.0	1301.5	1270.6	1223.3	1159.8	1077.7	984.3	939.8
62.5°	1321.1	1321.6	1327.6	1329.8	1318.9	1287.4	1238.0	1175.5	1091.9	996.8	951.7
65°	1329.8	1330.9	1337.9	1342.3	1331.4	1300.5	1249.4	1186.9	1103.3	1007.1	961.0
67.5°	1335.2	1335.8	1345.5	1349.9	1341.2	1308.6	1259.2	1195.1	1110.9	1013.6	968.0
70°	1337.4	1337.9	1348.8	1355.3	1346.6	1313.5	1263.5	1199.4	1115.8	1018.0	971.8
72.5°	1335.8	1336.9	1348.3	1357.0	1348.3	1315.7	1265.2	1201.6	1116.9	1022.9	972.9
75°	1330.3	1331.4	1344.5	1353.2	1346.6	1313.0	1262.4	1199.4	1115.2	1018.5	971.3
77.5°	1321.1	1322.7	1336.3	1347.2	1339.6	1307.5	1257.0	1193.4	1109.2	1013.1	965.3
80°	1307.5	1308.1	1323.3	1334.1	1328.7	1296.7	1246.1	1183.1	1099.5	1003.9	957.1
82.5°	1290.1	1292.3	1307.0	1318.9	1314.0	1280.9	1232.0	1170.1	1087.0	992.5	945.2
85°	1271.7	1273.8	1287.4	1300.5	1294.5	1263.5	1214.6	1153.3	1070.1	976.7	931.6
87.5°	1249.4	1251.0	1264.1	1277.6	1272.2	1241.3	1194.0	1133.7	1052.8	962.0	915.9
90°	1225.0	1226.6	1239.1	1252.1	1245.1	1215.7	1169.5	1110.3	1031.6	942.5	897.9
92.5°	1198.9	1199.4	1213.5	1220.6	1216.8	1190.7	1145.1	1088.1	1009.3	922.4	880.6
95°	1169.5	1169.5	1183.1	1190.7	1184.2	1159.8	1116.9	1059.8	983.2	901.7	858.8
97.5°	1137.5	1138.6	1148.9	1156.5	1154.3	1128.8	1088.1	1033.7	960.4	879.5	838.7
100°	1104.4	1104.4	1113.6	1120.1	1115.2	1094.6	1056.0	1006.0	931.6	855.6	815.9
102.5°	1069.6	1069.1	1076.7	1081.5	1078.3	1059.3	1023.4	974.0	904.5	830.6	793.1
105°	1031.0	1029.4	1037.0	1042.4	1039.2	1022.3	991.9	944.1	876.8	806.1	770.3
107.5°	989.7	992.5	996.8	1000.1	997.3	982.7	953.9	911.5	848.0	780.6	745.8
110°	950.6	952.3	952.8	956.6	956.1	944.1	919.7	877.3	817.0	753.4	719.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	911.0	910.4	911.0	*913.7*	913.7	901.7	878.4	841.4	786.6	724.7	693.7
115°	868.1	865.9	866.4	*867.0*	869.1	859.9	839.8	805.0	751.3	696.4	666.0
117.5°	823.5	823.0	821.9	*820.3*	820.3	816.5	799.1	768.1	717.0	662.7	637.2
120°	781.1	779.0	776.3	*774.6*	775.7	771.4	757.2	726.3	681.2	632.3	606.8
122.5°	732.3	733.9	732.3	*730.1*	730.6	726.3	714.3	688.3	643.2	596.5	573.6
125°	690.4	689.9	687.7	*684.5*	684.5	682.8	669.8	647.0	606.8	562.2	541.0
127.5°	643.7	644.3	642.1	*640.5*	641.5	638.3	629.6	603.5	568.2	528.6	507.9
130°	599.7	599.2	598.6	*595.4*	598.1	592.1	584.5	562.8	529.1	495.4	476.4
132.5°	558.4	555.2	553.0	*552.5*	551.9	551.4	542.1	523.1	494.9	461.2	442.7
135°	517.1	514.4	511.7	*510.6*	511.7	509.0	500.8	485.1	459.0	426.4	412.3
137.5°	474.8	473.7	473.7	*471.0*	471.0	468.8	461.7	448.7	424.3	396.0	381.9
140°	436.7	434.6	433.5	*431.9*	433.5	431.3	423.7	411.2	390.6	366.1	352.5
142.5°	397.6	395.5	397.1	*395.5*	393.8	392.7	386.2	376.4	358.5	336.3	324.8
145°	361.2	361.2	360.2	*360.7*	359.6	358.5	352.0	342.8	327.6	306.9	298.8
147.5°	327.0	328.1	327.0	*328.1*	328.1	323.8	319.4	311.8	297.7	281.4	272.7
150°	295.0	296.6	295.5	*295.0*	295.5	293.3	287.4	283.0	270.5	256.4	247.7
152.5°	267.8	268.9	268.9	*267.8*	267.3	266.2	260.2	254.2	244.4	233.6	227.6
155°	242.3	242.3	242.8	*243.4*	241.7	238.5	236.3	231.4	222.7	212.9	207.0
157.5°	221.1	220.5	221.1	*220.5*	220.0	216.7	213.5	209.7	202.6	193.9	190.7
160°	201.0	201.0	201.5	*201.0*	198.8	197.2	194.5	191.2	185.2	179.3	174.9
162.5°	184.7	184.7	184.7	*184.2*	182.0	181.4	178.2	174.9	170.0	165.1	161.9
165°	170.6	170.6	170.0	*170.0*	168.9	167.3	164.6	161.9	157.5	153.7	151.6
167.5°	159.2	158.6	158.1	*157.5*	157.0	155.4	152.6	151.0	147.8	144.5	142.9
170°	149.4	149.4	148.8	*148.8*	147.8	146.1	144.5	142.3	140.2	136.9	135.8
172.5°	140.7	140.7	140.7	*140.7*	139.1	138.5	136.9	135.3	133.6	131.5	130.4
175°	134.2	134.2	134.2	*134.2*	133.1	132.0	131.5	129.8	128.7	127.1	126.6
177.5°	129.3	129.3	129.3	*129.3*	128.7	127.7	127.1	126.0	124.9	124.4	123.9
180°	124.9	124.9	124.9	*124.9*	124.9	124.9	124.9	124.9	124.9	124.9	124.9

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	88.5	85.3	80.9	76.1	72.2	67.4	62.5	59.8	58.1	57.0
5°	98.9	91.8	85.3	78.2	72.8	67.9	62.5	58.1	56.0	55.4
7.5°	126.0	116.2	106.5	97.8	90.2	82.6	77.1	72.8	70.1	70.1
10°	158.6	145.0	133.6	122.2	111.9	102.7	95.1	90.7	87.5	86.4
12.5°	195.6	179.3	163.5	150.5	135.3	124.9	115.7	109.7	105.9	105.4
15°	234.1	217.3	197.2	179.3	162.4	146.1	135.3	126.6	123.3	123.3
17.5°	271.1	249.3	227.1	205.3	184.7	165.7	150.5	140.7	135.8	134.7
20°	310.7	284.6	255.9	230.3	204.8	182.5	164.6	152.1	145.6	145.0
22.5°	351.5	321.0	290.1	256.4	227.1	200.4	179.3	164.6	156.4	155.4
25°	398.2	361.2	324.3	287.4	252.1	220.5	195.6	177.6	168.4	167.3
27.5°	449.8	403.6	359.6	317.2	276.0	241.2	211.3	190.7	179.3	178.7
30°	497.0	446.0	396.0	347.1	302.0	260.2	227.1	203.2	190.7	189.0
32.5°	544.3	487.8	431.3	377.5	325.4	280.3	242.8	215.1	200.4	199.4
35°	593.2	529.1	467.7	405.8	351.5	300.4	257.5	227.1	211.3	209.1
37.5°	638.8	569.8	502.5	436.7	374.3	318.9	271.6	238.5	220.5	217.8
40°	680.7	606.2	534.0	463.4	396.0	336.3	285.2	248.3	228.2	226.0
42.5°	719.2	640.5	562.8	486.7	416.1	351.5	296.6	256.4	234.1	232.0
45°	755.6	672.5	589.4	508.5	433.5	365.6	307.5	264.0	240.1	236.8
47.5°	786.6	699.7	610.6	526.9	449.2	377.5	315.6	269.4	244.4	241.2
50°	814.3	722.5	630.7	544.8	462.8	388.4	323.2	273.8	246.6	243.4
52.5°	836.6	743.7	648.1	559.0	475.3	397.1	328.6	277.6	248.8	245.5
55°	858.3	761.0	663.3	571.5	484.5	405.2	333.0	279.8	249.9	246.1
57.5°	876.2	775.7	675.8	581.2	493.8	410.7	336.8	280.8	249.9	245.5
60°	889.2	787.1	685.5	589.4	499.8	415.6	339.5	281.4	249.3	245.0
62.5°	900.7	796.4	692.6	596.5	505.7	419.4	342.2	281.9	248.3	243.9
65°	909.3	804.0	698.6	600.8	509.5	422.6	342.8	281.4	246.6	242.3
67.5°	916.4	808.9	702.4	604.6	512.3	424.3	343.9	280.8	245.5	240.6
70°	919.1	811.0	704.6	606.2	513.9	425.3	343.9	279.8	243.4	238.5
72.5°	*918.6*	*811.0*	*705.1*	*606.8*	*514.4*	*425.9*	*343.3*	*278.1*	*241.7*	*236.8*
75°	917.0	809.4	704.0	606.2	513.9	425.3	342.8	277.0	240.1	235.8
77.5°	912.6	805.0	700.2	604.1	512.8	423.7	341.1	276.0	239.0	233.6
80°	905.0	798.5	694.8	599.2	509.0	422.1	339.5	273.8	236.8	232.5
82.5°	894.1	790.4	688.3	594.8	505.7	418.8	337.3	272.7	235.8	231.4
85°	881.6	780.1	679.6	588.3	500.8	415.6	334.6	270.5	234.7	230.3
87.5°	866.4	766.5	670.9	580.7	494.9	411.2	331.9	268.9	234.1	229.8
90°	850.7	754.0	660.0	573.6	490.0	406.9	329.2	267.8	233.6	229.8
92.5°	833.3	740.4	649.7	564.4	483.5	402.5	326.5	266.7	233.6	229.8
95°	815.9	726.3	639.4	556.3	476.9	398.2	323.8	266.2	234.7	230.9
97.5°	795.3	710.0	626.9	547.6	469.3	393.3	321.6	265.6	235.2	232.0
100°	775.7	693.7	613.8	537.8	462.3	387.9	318.3	265.1	236.3	232.5
102.5°	754.5	677.9	600.8	527.5	454.7	381.9	315.6	264.5	237.4	234.1
105°	733.3	658.9	586.7	515.5	445.4	375.9	312.3	264.0	237.9	234.7
107.5°	710.0	641.0	570.9	504.1	436.2	369.4	308.0	262.9	238.5	235.2
110°	686.1	619.8	554.6	491.1	425.3	361.2	303.7	260.2	237.9	235.2

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

Scaled Data Report

REPORT NUMBER: P1223919
CATALOG NUMBER: FFX-CLB-50-750-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	663.3	599.7	536.7	476.4	413.9	353.1	297.7	257.5	236.3	234.1
115°	635.0	576.9	517.7	460.6	400.9	342.8	291.2	253.7	234.1	231.4
117.5°	608.9	553.0	497.6	443.8	387.3	332.4	283.6	248.8	230.3	228.2
120°	579.6	527.5	475.9	424.8	372.1	320.5	274.3	242.8	225.4	223.8
122.5°	550.8	502.5	453.6	405.2	355.8	306.9	265.1	235.2	220.0	218.4
125°	520.4	475.9	430.2	384.6	337.9	292.8	254.2	226.5	212.9	211.3
127.5°	489.4	448.2	405.2	362.9	320.5	278.7	242.8	217.8	204.8	204.2
130°	456.8	419.9	380.8	341.7	302.6	264.0	230.9	208.6	196.6	195.6
132.5°	427.5	393.3	356.9	320.0	283.0	249.3	219.5	198.8	188.5	187.4
135°	398.7	364.5	333.0	300.4	266.2	234.7	208.1	189.6	180.3	179.3
137.5°	369.4	339.5	310.2	279.8	248.8	220.5	197.2	180.9	172.7	171.7
140°	340.1	315.1	288.4	259.7	233.0	207.5	186.3	172.7	165.1	164.1
142.5°	313.4	289.5	265.6	240.6	216.7	195.0	176.5	163.5	157.0	156.4
145°	287.4	266.7	245.0	222.7	202.1	184.2	167.3	156.4	151.0	150.5
147.5°	264.0	245.5	226.0	207.0	189.0	172.2	158.6	149.4	144.0	143.4
150°	240.6	224.3	208.1	191.8	176.5	162.4	150.5	142.9	139.1	138.0
152.5°	220.0	207.0	192.3	178.7	165.1	153.2	144.0	136.9	133.6	133.1
155°	201.5	190.7	178.7	166.8	155.9	146.1	138.0	132.5	129.8	129.8
157.5°	185.8	176.5	166.8	157.0	148.3	140.2	133.6	129.3	127.1	126.6
160°	171.7	163.5	155.9	148.8	140.7	134.7	129.8	126.0	124.4	123.9
162.5°	158.6	153.2	147.2	141.2	135.3	130.4	126.6	123.9	122.8	122.8
165°	149.4	144.5	139.6	135.3	130.9	127.7	124.4	122.8	121.7	121.1
167.5°	141.2	137.4	134.2	130.9	127.7	124.9	122.8	121.7	120.6	120.6
170°	134.7	132.0	129.8	127.7	125.5	123.3	122.2	121.1	120.6	120.6
172.5°	129.3	127.7	126.0	124.9	123.3	122.2	121.1	120.6	120.6	120.6
175°	126.0	124.9	123.9	123.3	122.8	122.2	121.7	121.1	121.1	121.1
177.5°	123.9	123.3	123.3	122.8	122.8	122.8	122.8	122.8	122.8	122.8
180°	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9

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: SP1-2501-332-5

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

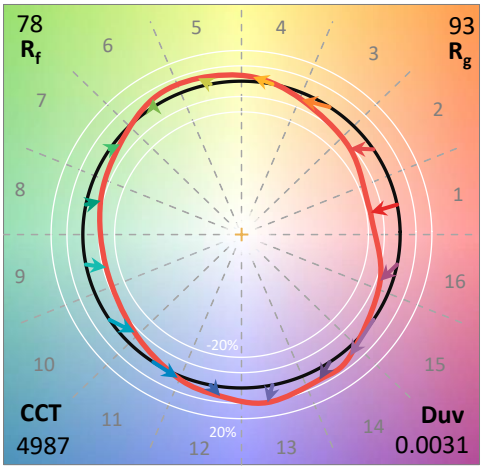
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-5
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-100-750-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	4987	CRI (Ra):	75.8		
CIE u':	0.2094	R1:	71.6	R9:	-30.4
CIE v':	0.4882	R2:	82.8	R10:	59.9
Duv:	0.0031	R3:	91.2	R11:	70.9
CIE x:	0.3461	R4:	73.8	R12:	51.2
CIE y:	0.3586	R5:	73.0	R13:	74.2
CIE z:	0.2954	R6:	76.1	R14:	95.3
Peak Wavelength (nm):	450	R7:	82.9	R15:	63.7
Dominant Wavelength (nm):	570	R8:	54.9		
Purity:	11.4				

Rf:	78.3
Rg:	93.4



Test Conditions

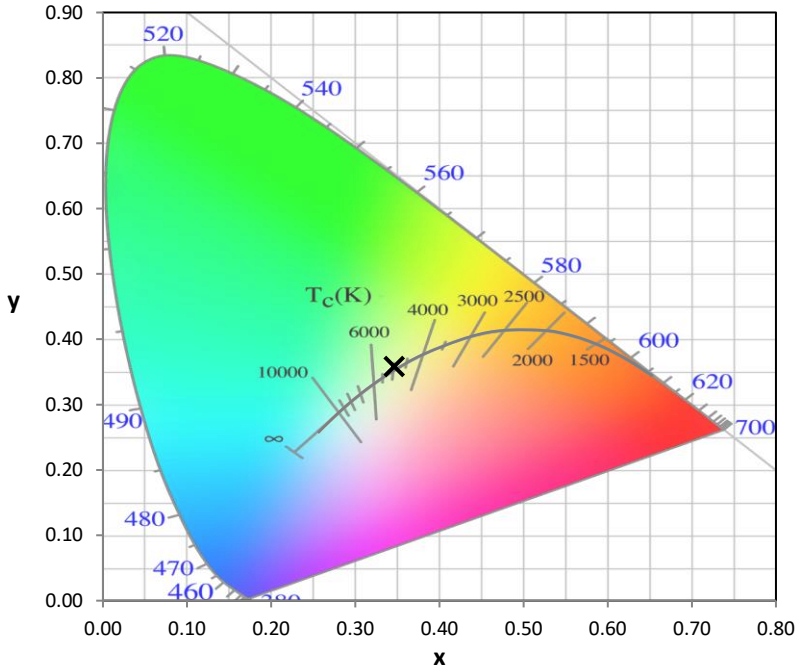
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

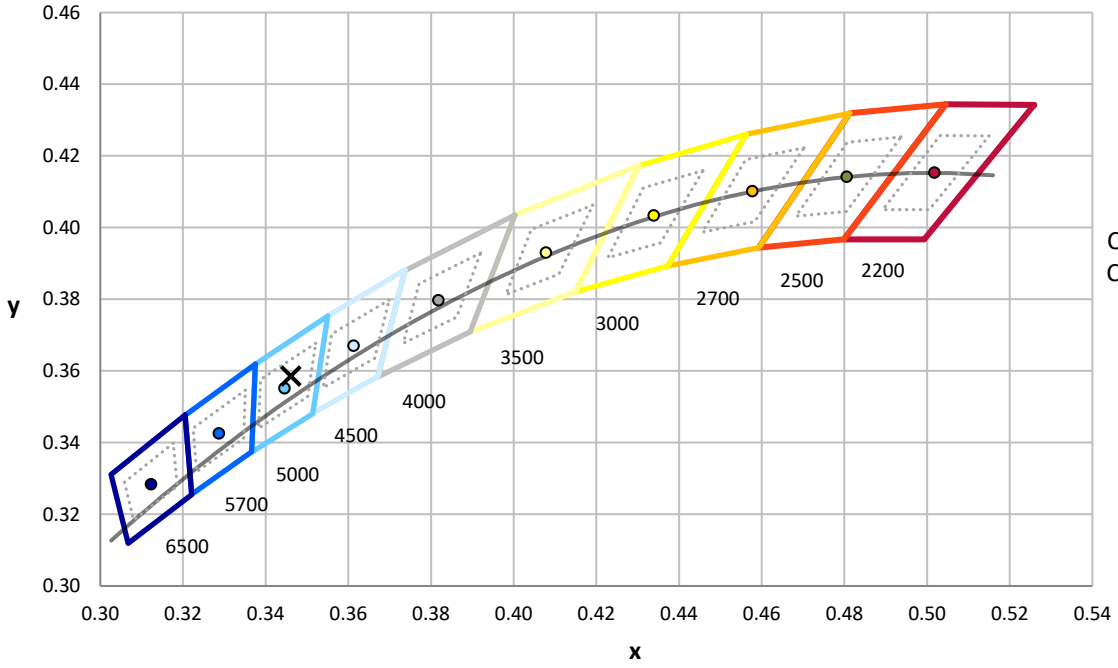
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-5

CIE 1931 Chromaticity Diagram



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

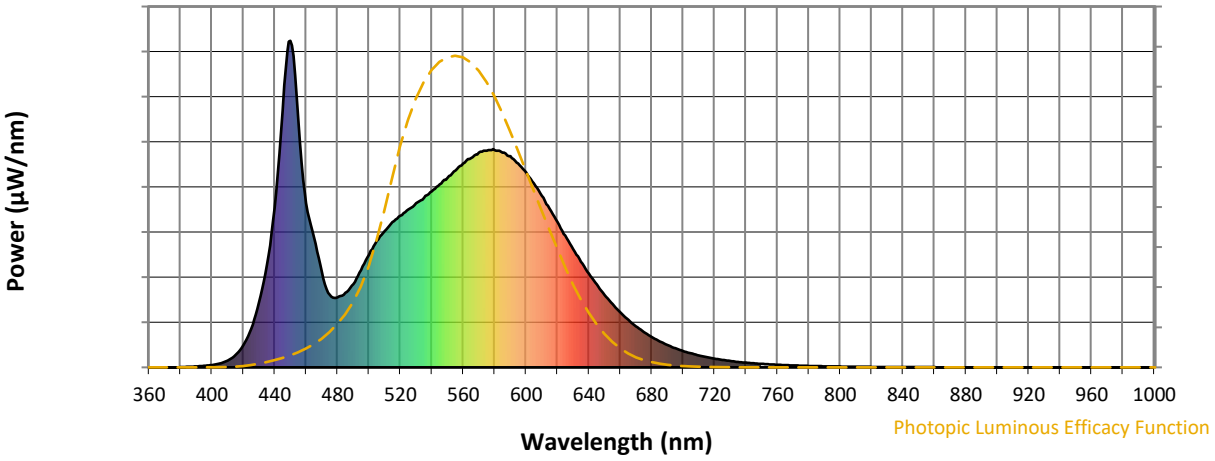


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

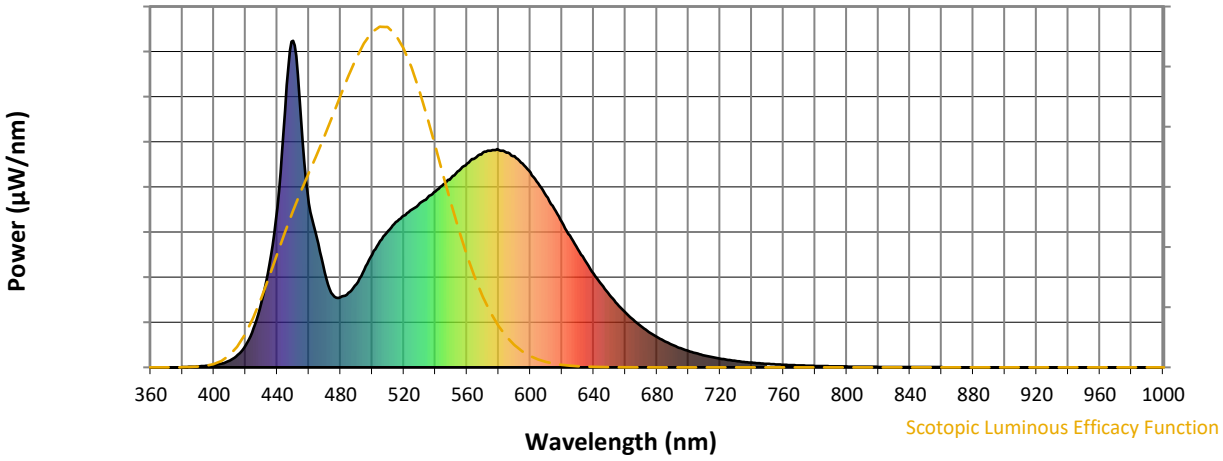


Photopic Lumens: NR

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Scotopic Flux vs. Wavelength

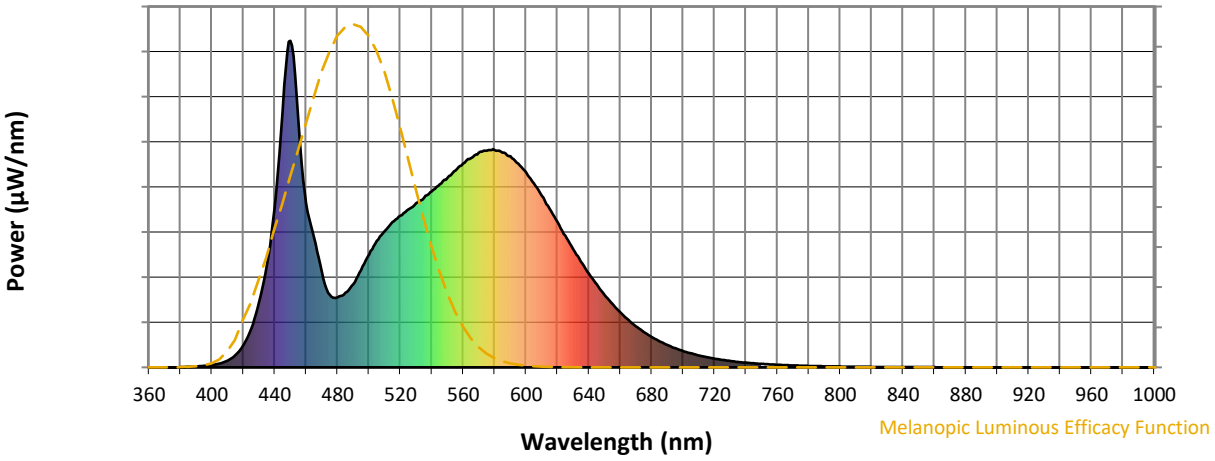


Scotopic Lumens: NR **S/P: 1.87**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.92**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

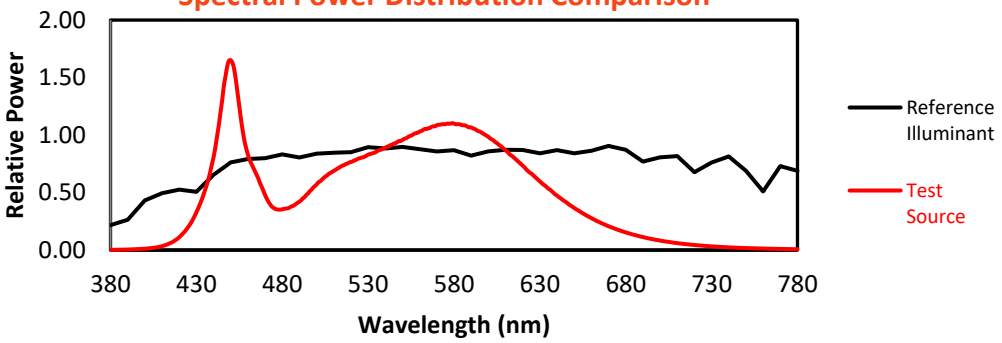
REPORT NUMBER: SP1-2501-332-5

TM-30-18

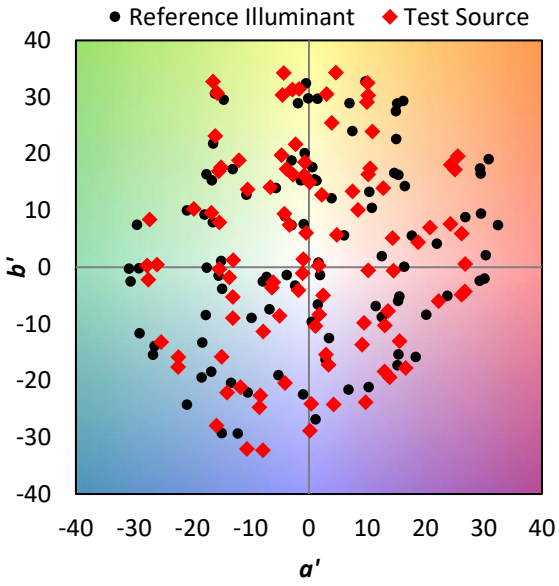
Summary

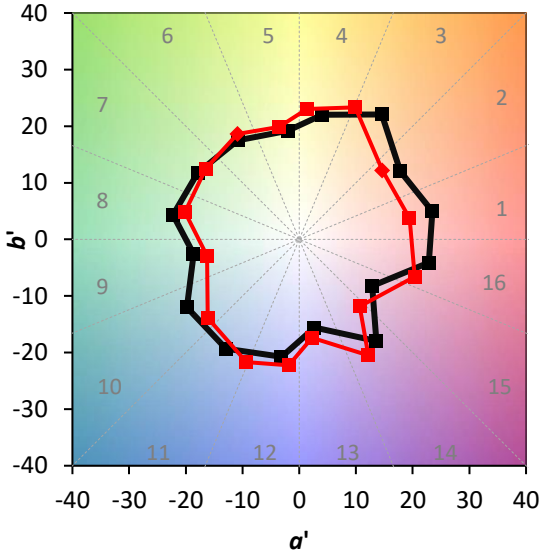
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R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

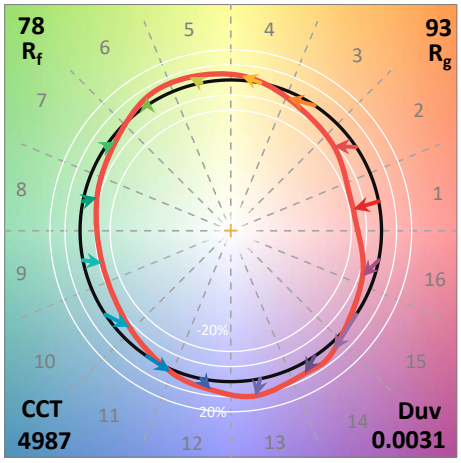
Spectral Power Distribution Comparison

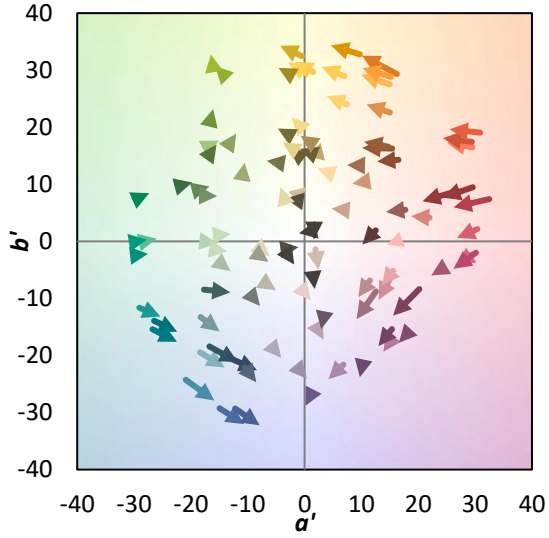


Color Vector Graphics







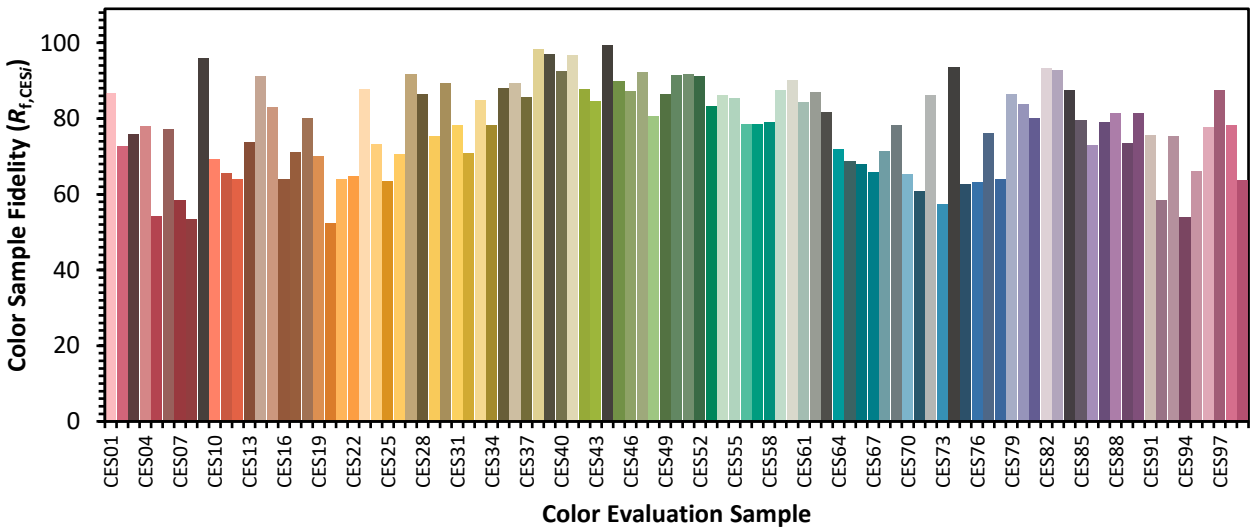


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

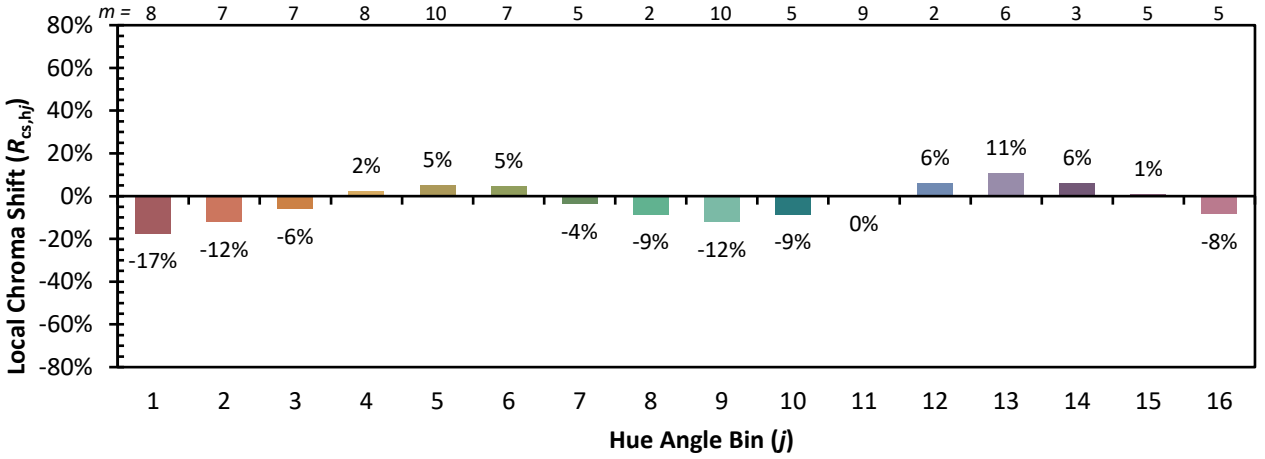
CES01 = 85	CES26 = 71	CES51 = 92	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 93
CES08 = 38	CES33 = 85	CES58 = 79	CES83 = 93
CES09 = 29	CES34 = 78	CES59 = 88	CES84 = 87
CES10 = 73	CES35 = 88	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 89	CES61 = 84	CES86 = 73
CES12 = 61	CES37 = 86	CES62 = 87	CES87 = 79
CES13 = 41	CES38 = 98	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 74
CES15 = 70	CES40 = 93	CES65 = 69	CES90 = 81
CES16 = 46	CES41 = 97	CES66 = 68	CES91 = 76
CES17 = 49	CES42 = 88	CES67 = 66	CES92 = 58
CES18 = 55	CES43 = 85	CES68 = 71	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 78	CES94 = 54
CES20 = 64	CES45 = 90	CES70 = 65	CES95 = 66
CES21 = 85	CES46 = 87	CES71 = 61	CES96 = 78
CES22 = 77	CES47 = 92	CES72 = 86	CES97 = 88
CES23 = 91	CES48 = 81	CES73 = 57	CES98 = 78
CES24 = 90	CES49 = 86	CES74 = 93	CES99 = 64
CES25 = 71	CES50 = 91	CES75 = 63	

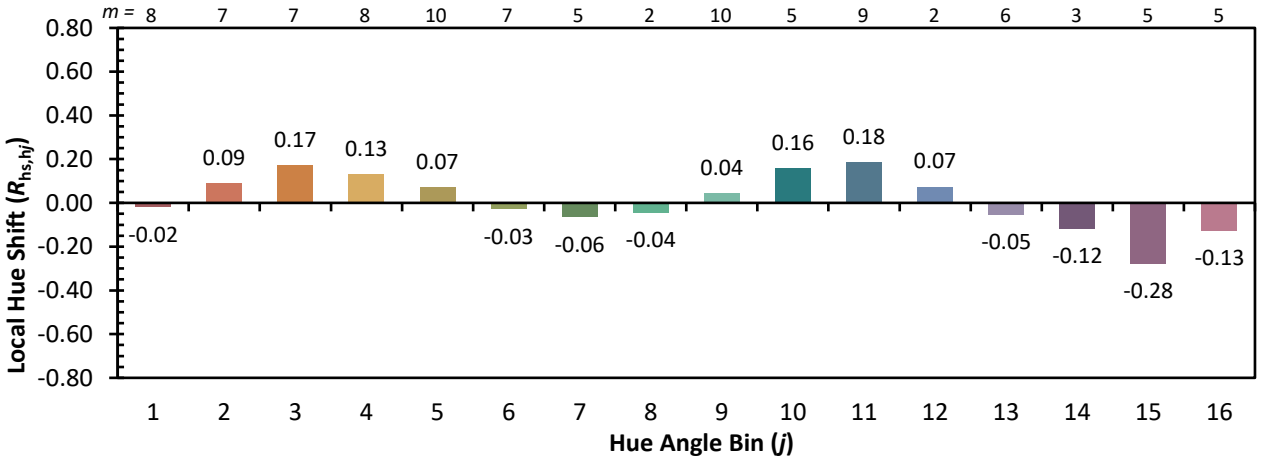


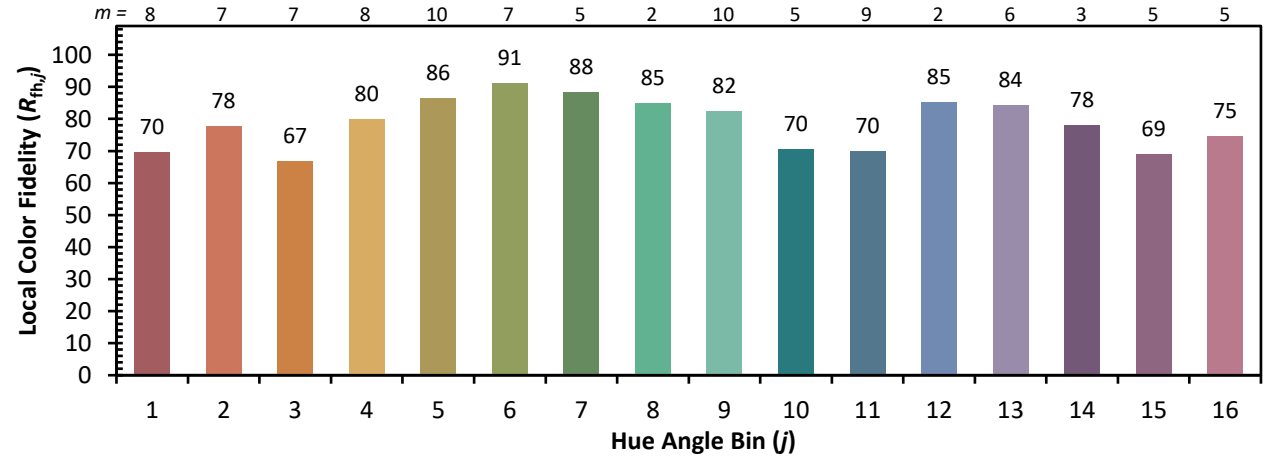
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Color Rendition by Hue-Angle Bin



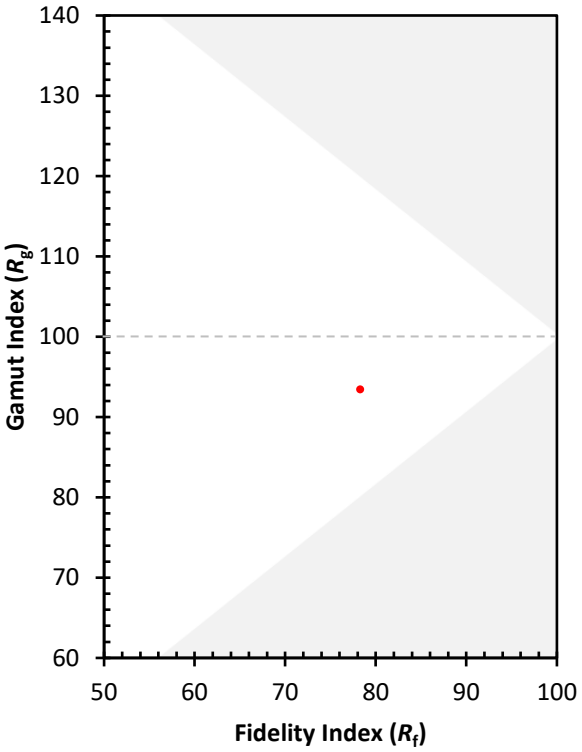


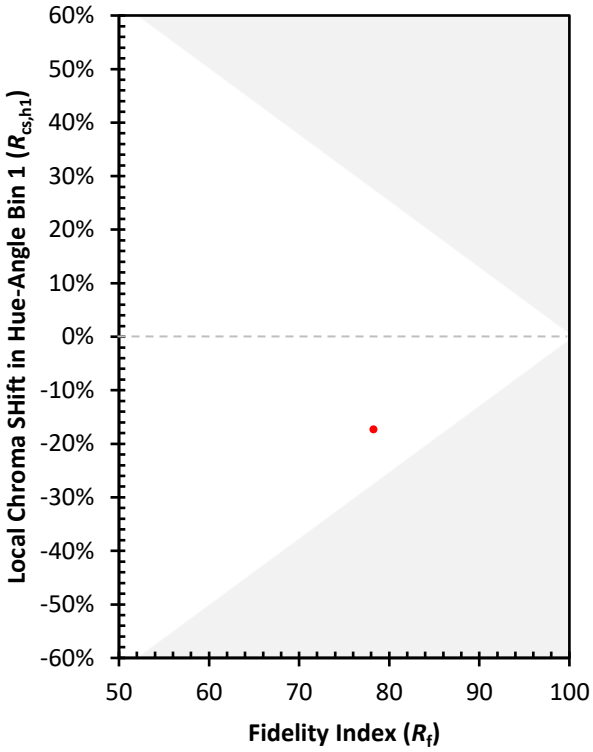


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Measure Comparisons





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