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: P1223971

Luminaire Tested: **FFX-CLB-70-722-U-VM8-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:	P1223971
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-U-VM8-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8944.1 lumens
Efficiency:	N/A
Efficacy:	125.6 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):	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

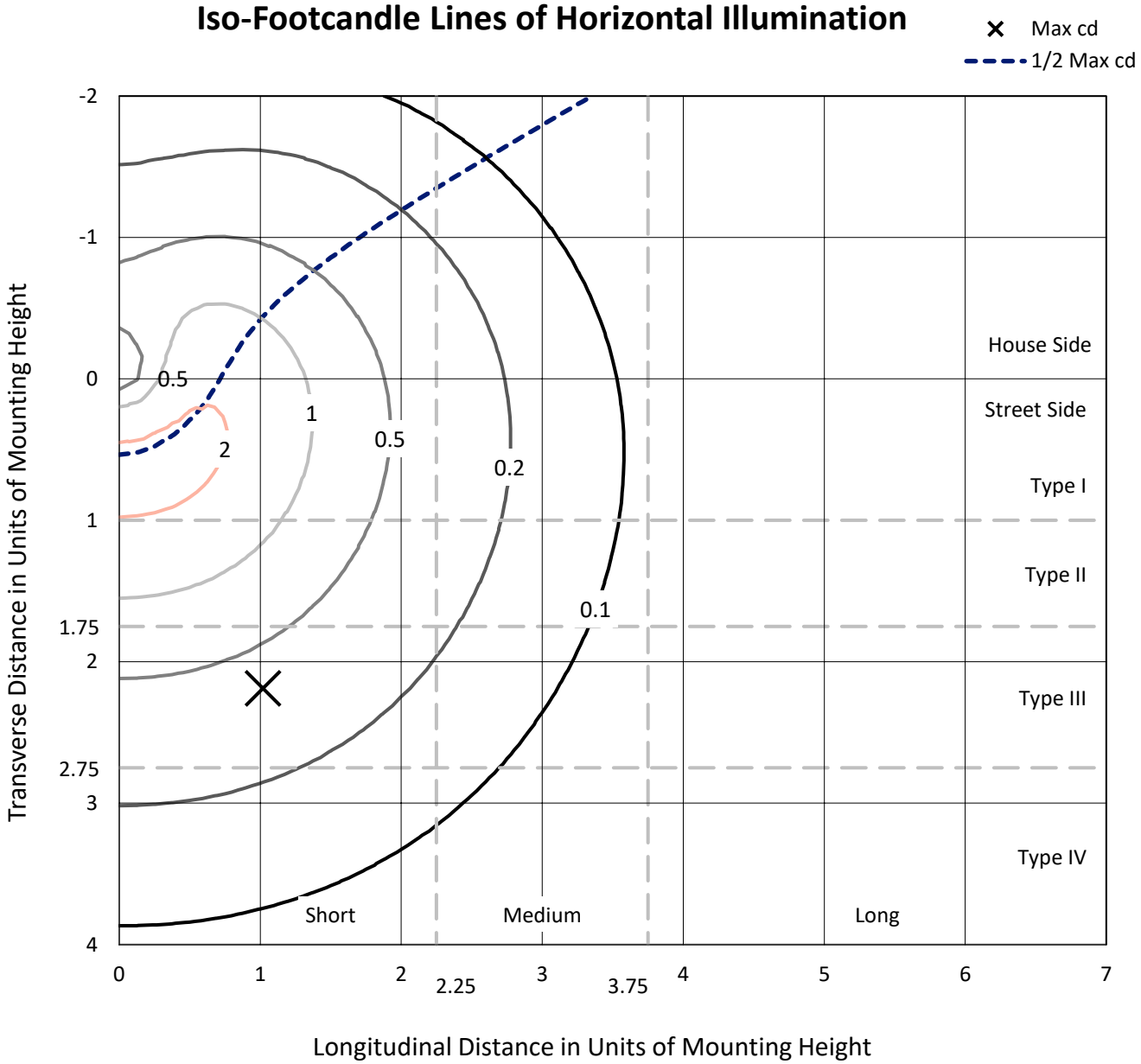


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Iso-Footcandle Lines of Horizontal Illumination



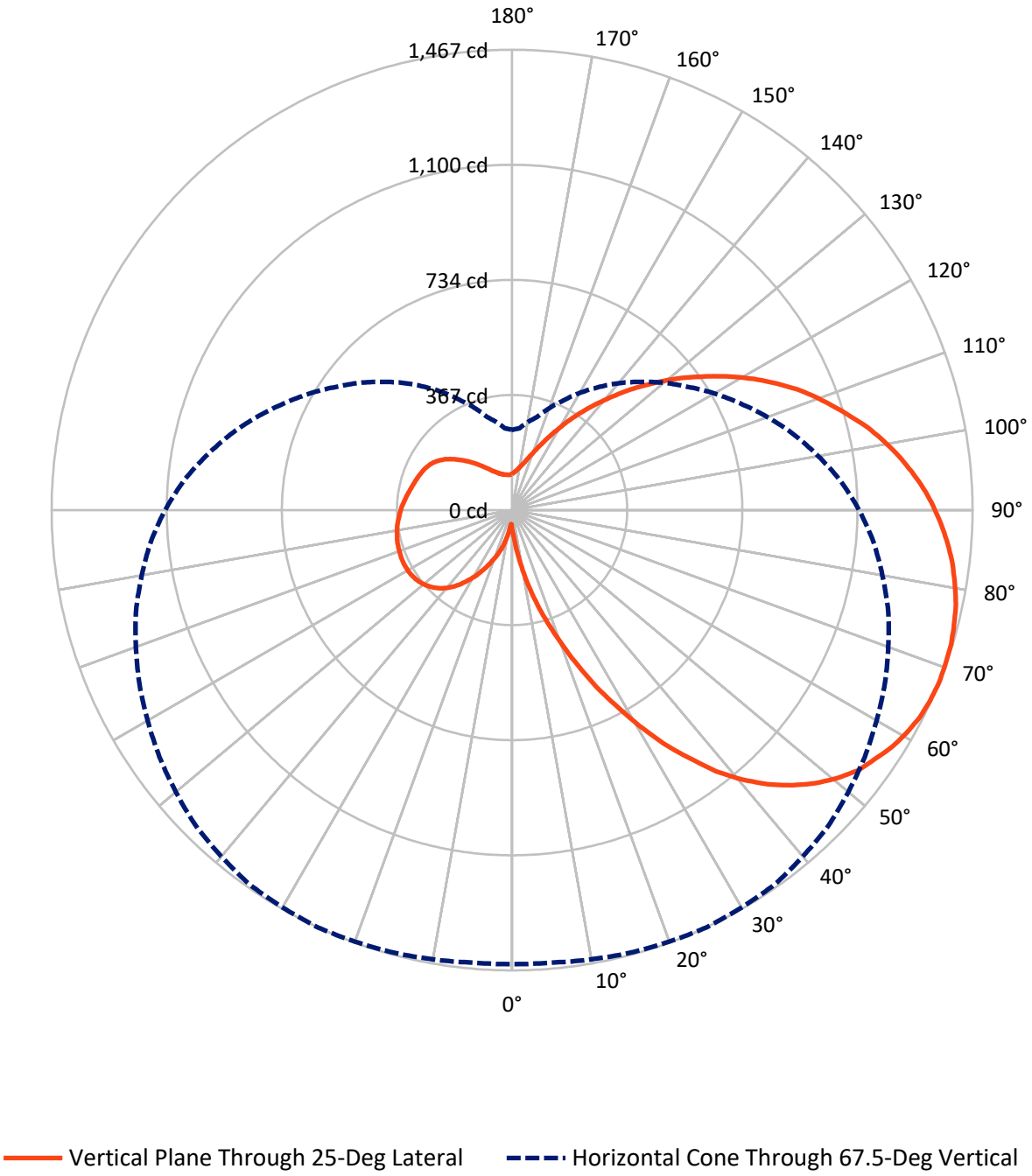
Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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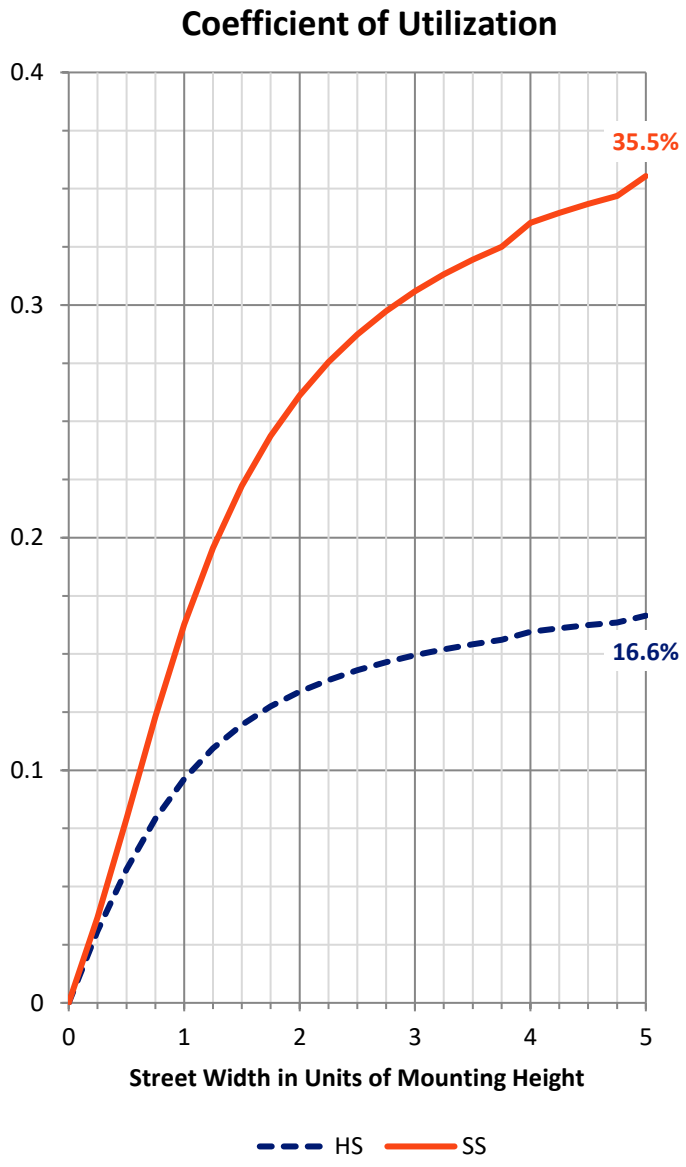
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1638.0	1252.0	2890.1
	% Fixture	18.3	14.0	32.3
Street Side	Lumens	3619.3	2434.7	6054.0
	% Fixture	40.5	27.2	67.7
Total	Lumens	5257.4	3686.7	8944.1
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.1
10°-20°	68.0	0.8
20°-30°	203.7	2.3
30°-40°	419.3	4.7
40°-50°	654.7	7.3
50°-60°	848.0	9.5
60°-70°	977.7	10.9
70°-80°	1040.3	11.6
80°-90°	1035.8	11.6
90°-100°	966.3	10.8
100°-110°	844.6	9.4
110°-120°	691.7	7.7
120°-130°	514.4	5.8
130°-140°	334.6	3.7
140°-150°	189.5	2.1
150°-160°	93.4	1.0
160°-170°	40.8	0.5
170°-180°	11.5	0.1
0°-90°	5257.4	58.8
0°-180°	8944.1	100.0



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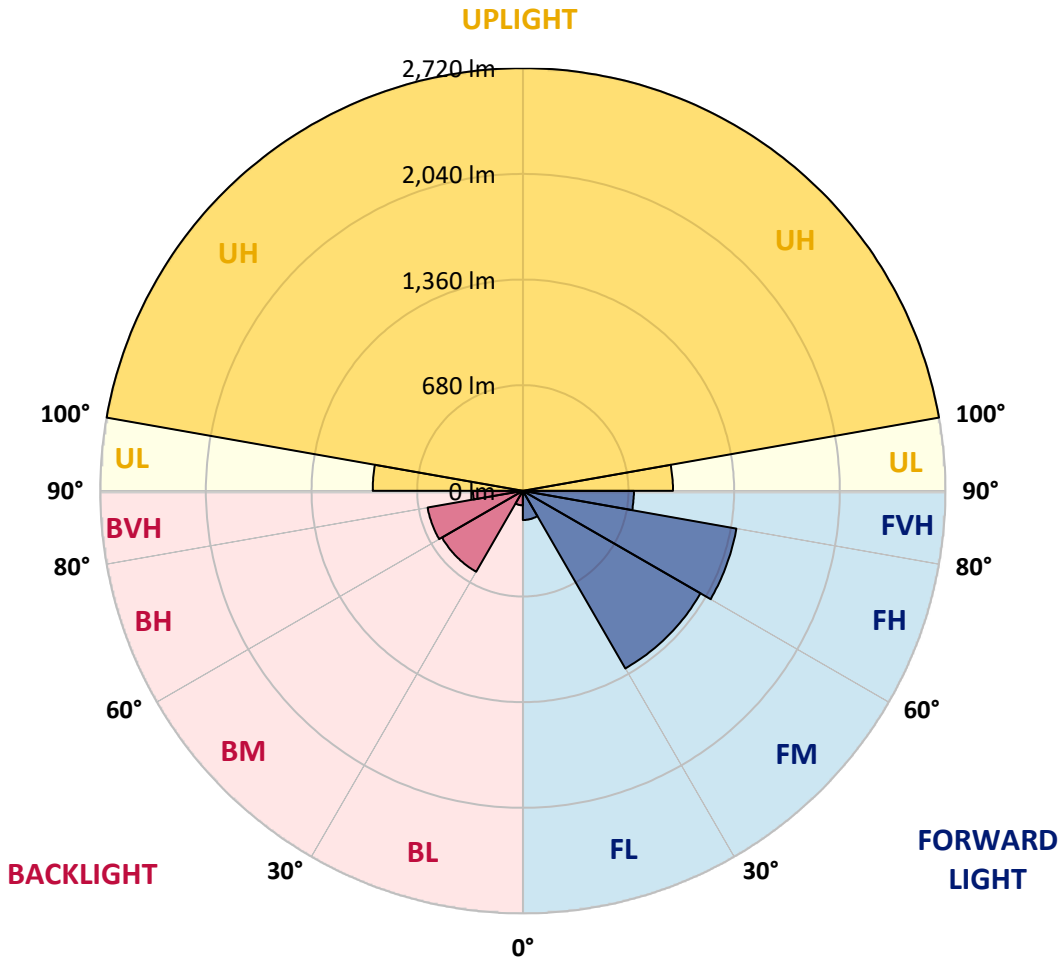
Scaled Data Report

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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°)	187.9	2.1			
FM	(30°-60°)	1320.6	14.8			
FH	(60°-80°)	1395.9	15.6			G1/1800
FVH	(80°-90°)	714.9	8.0			G4/750
BL	(0°-30°)	93.7	1.0	B0/110		
BM	(30°-60°)	601.4	6.7	B1/1000		
BH	(60°-80°)	622.1	7.0	B2/1000		G2/1000
BVH	(80°-90°)	320.8	3.6			G3/500
UL	(90°-100°)	966.3	10.8		U4/1000	
UH	(100°-180°)	2720.5	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°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	77.2	77.2	77.8	77.8	76.6	77.2	76.1	74.4	73.2	70.4	69.3
5°	112.4	110.7	111.3	110.1	107.9	106.7	102.2	98.8	93.1	86.9	84.0
7.5°	156.1	156.7	154.4	151.6	151.0	144.8	143.6	132.9	128.3	117.5	114.7
10°	210.1	208.9	206.7	206.1	201.0	194.7	185.1	179.4	164.7	156.7	150.5
12.5°	269.1	269.7	265.7	261.7	257.2	248.7	235.6	226.5	214.6	198.2	190.2
15°	332.7	330.4	330.4	325.9	319.1	309.4	299.2	286.2	269.1	251.5	240.2
17.5°	391.8	396.3	394.6	388.9	382.7	370.8	360.0	341.8	323.1	303.8	289.6
20°	465.6	466.7	463.9	458.8	453.1	439.5	426.4	408.2	384.9	354.9	342.9
22.5°	539.9	542.2	542.2	539.4	531.4	519.5	498.5	478.6	449.7	419.6	399.7
25°	625.7	624.0	625.7	624.0	610.9	600.1	578.6	554.7	523.5	486.6	462.7
27.5°	712.0	714.3	709.7	705.7	700.6	683.6	660.3	630.2	591.0	552.4	526.9
30°	796.0	801.1	801.1	796.6	788.6	771.6	745.5	713.1	670.0	621.1	591.0
32.5°	884.0	885.7	888.0	887.4	878.3	861.9	832.9	789.2	740.9	687.0	657.5
35°	977.1	972.0	973.2	969.7	965.8	945.3	911.8	869.8	817.6	757.4	721.6
37.5°	1054.3	1052.1	1053.8	1056.6	1045.8	1024.8	986.2	937.4	880.0	817.0	781.3
40°	1127.6	1125.9	1128.7	1129.3	1118.5	1094.1	1053.2	1006.1	944.2	871.5	838.0
42.5°	1188.9	1188.9	1191.7	1195.2	1183.8	1157.7	1116.2	1060.0	996.4	923.2	882.3
45°	1245.7	1244.0	1249.7	1251.4	1240.0	1213.9	1167.3	1110.6	1042.4	968.0	925.5
47.5°	1291.1	1291.7	1297.4	1300.8	1290.5	1261.0	1213.9	1153.7	1082.7	1005.0	961.2
50°	1328.6	1333.7	1338.8	1342.8	1332.0	1302.5	1253.6	1188.3	1117.4	1039.0	993.6
52.5°	1366.1	1366.1	1374.0	1379.1	1367.2	1336.5	1285.4	1221.8	1149.2	1066.3	1022.0
55°	1389.9	1390.5	1400.1	1401.8	1394.4	1362.6	1310.4	1246.8	1174.1	1090.7	1043.6
57.5°	1410.9	1411.5	1422.3	1426.2	1416.0	1385.4	1332.0	1266.1	1195.2	1110.0	1062.3
60°	1429.1	1428.5	1437.6	1443.3	1433.0	1400.7	1348.5	1284.3	1211.6	1127.6	1078.2
62.5°	1440.4	1440.4	1451.2	1456.9	1446.1	1414.3	1360.9	1297.4	1224.7	1139.5	1090.7
65°	1445.5	1446.7	1456.9	1463.7	1453.5	1421.1	1367.8	1305.3	1233.8	1149.2	1099.8
67.5°	1447.2	1447.8	1460.3	1467.1	1457.5	1424.5	1371.7	1310.4	1240.6	1155.4	1105.4
70°	1448.4	1448.9	1458.6	1465.4	1456.9	1424.0	1372.9	1312.7	1244.5	1158.8	1108.9
72.5°	1442.1	1443.8	1454.6	1462.6	1452.4	1420.0	1370.0	1312.7	1244.0	1161.1	1110.0
75°	1434.2	1438.2	1447.8	1454.6	1445.5	1414.3	1365.5	1310.4	1243.4	1160.0	1110.0
77.5°	1426.2	1426.8	1439.3	1445.5	1435.9	1404.1	1357.5	1304.7	1240.0	1156.5	1106.0
80°	1410.3	1413.7	1424.5	1430.2	1421.7	1391.6	1346.2	1296.8	1233.8	1150.9	1099.8
82.5°	1399.0	1397.8	1408.6	1413.7	1405.2	1374.0	1333.1	1284.3	1224.7	1141.2	1091.3
85°	1377.4	1379.7	1388.2	1392.7	1383.1	1354.7	1315.5	1271.8	1212.2	1130.4	1079.9
87.5°	1357.0	1358.1	1363.8	1368.9	1359.2	1332.0	1295.6	1254.2	1196.9	1116.8	1067.4
90°	1331.4	1332.0	1338.2	1342.2	1333.7	1308.1	1274.6	1234.3	1180.4	1101.5	1052.1
92.5°	1307.6	1306.4	1311.0	1312.7	1305.3	1280.3	1250.2	1212.8	1160.5	1082.7	1035.0
95°	1276.3	1275.8	1279.8	1278.6	1270.7	1249.1	1221.8	1188.9	1137.2	1062.9	1015.7
97.5°	1241.7	1242.3	1244.5	1243.4	1234.9	1215.0	1194.0	1161.1	1113.4	1039.6	994.2
100°	1203.1	1204.8	1208.2	1204.8	1197.4	1182.7	1160.5	1133.3	1086.1	1016.3	971.5
102.5°	1170.7	1166.2	1165.1	1164.5	1157.1	1144.1	1127.0	1103.2	1059.5	990.8	947.6
105°	1128.2	1125.3	1124.8	1118.5	1115.7	1104.9	1090.7	1069.1	1029.9	965.2	923.2
107.5°	1083.3	1083.9	1081.6	1074.2	1070.2	1062.9	1054.9	1035.6	998.1	936.8	898.2
110°	1043.0	1040.2	1033.9	1030.5	1027.7	1021.4	1016.3	1001.5	966.9	909.6	871.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	993.0	994.7	987.4	*985.1*	980.5	980.0	976.6	964.6	934.0	880.6	844.3
115°	948.2	947.0	939.7	*935.1*	933.4	934.5	936.8	928.3	899.9	849.4	815.9
117.5°	898.8	895.4	890.3	*885.7*	883.4	888.0	893.1	889.1	865.3	817.6	785.8
120°	846.0	846.5	839.2	*834.6*	835.2	842.6	849.4	847.1	824.4	781.8	753.4
122.5°	796.6	793.7	787.5	*783.0*	786.9	794.9	802.8	802.3	782.4	740.9	715.4
125°	742.6	742.1	735.8	*731.3*	734.7	743.8	753.4	754.6	735.8	701.2	675.6
127.5°	691.5	689.8	688.7	*683.6*	685.9	698.4	705.2	704.6	688.1	656.3	634.2
130°	642.7	642.1	635.3	*633.1*	635.9	646.1	652.9	651.8	638.7	610.9	591.0
132.5°	593.3	591.0	588.2	*584.8*	587.1	595.6	604.7	603.5	588.2	561.5	545.6
135°	544.5	542.8	540.5	*538.2*	539.9	548.5	556.4	554.1	541.1	517.2	501.3
137.5°	499.6	497.9	495.1	*492.3*	494.5	501.3	506.4	504.7	494.0	471.2	455.9
140°	453.1	454.2	450.8	*448.5*	449.7	456.5	460.5	458.2	446.3	427.5	415.0
142.5°	410.5	410.5	408.8	*408.2*	409.9	413.3	416.7	412.2	404.3	384.9	374.7
145°	369.6	370.2	369.6	*368.5*	369.0	373.0	373.6	371.9	362.8	348.6	337.3
147.5°	331.0	332.7	331.6	*331.6*	332.1	333.8	336.1	332.1	324.2	311.7	303.8
150°	295.2	296.4	296.4	*295.2*	295.2	297.5	297.5	294.7	288.4	278.2	270.8
152.5°	264.0	264.6	264.6	*263.4*	264.0	264.6	263.4	260.0	254.9	247.0	241.3
155°	235.6	236.8	235.1	*235.6*	233.9	234.5	233.9	231.6	226.0	219.2	215.8
157.5°	210.1	211.8	210.6	*210.6*	209.5	208.9	208.4	206.1	202.1	196.4	192.5
160°	189.6	190.8	189.1	*189.1*	187.9	187.9	185.7	184.5	180.6	175.4	173.2
162.5°	172.0	172.0	171.5	*172.0*	171.5	169.8	168.6	166.4	162.9	159.0	157.3
165°	157.8	157.3	157.3	*156.7*	156.1	155.0	153.3	152.2	148.8	145.3	144.2
167.5°	147.1	146.5	145.9	*145.3*	144.2	143.6	141.9	140.8	138.0	135.1	134.0
170°	138.0	138.0	136.8	*136.3*	135.7	134.6	132.9	131.2	128.9	127.2	126.0
172.5°	130.0	130.0	129.5	*128.9*	128.3	127.2	125.5	124.3	122.6	120.9	119.8
175°	124.3	124.3	123.8	*122.6*	122.1	120.9	119.8	118.7	117.0	115.8	115.3
177.5°	119.8	119.8	119.8	*118.7*	118.1	117.0	115.8	114.7	114.1	113.0	113.0
180°	114.1	114.1	114.1	*114.1*	114.1	114.1	114.1	114.1	114.1	114.1	114.1

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	67.6	64.2	61.3	56.8	52.8	49.4	47.1	45.4	44.3	43.2
5°	80.6	74.4	68.1	61.3	55.1	49.4	44.9	41.4	39.7	39.7
7.5°	110.1	100.5	89.7	80.1	72.7	65.3	58.5	54.5	52.2	51.1
10°	144.2	130.0	119.2	107.3	94.2	85.2	77.2	72.1	69.3	69.8
12.5°	185.1	167.5	153.9	136.3	122.1	107.9	99.4	92.0	88.6	88.0
15°	230.5	210.1	190.2	169.2	150.5	134.0	121.5	111.9	106.2	105.6
17.5°	278.2	252.7	226.0	202.1	177.7	157.3	140.2	128.9	122.6	122.6
20°	326.5	297.5	266.3	235.1	205.5	180.6	160.7	145.9	138.0	136.8
22.5°	382.1	345.2	307.7	269.7	236.2	205.0	179.4	161.8	153.3	151.6
25°	442.9	399.1	354.3	309.4	268.0	230.5	201.0	181.1	169.2	167.5
27.5°	505.9	453.1	400.3	348.0	299.8	258.3	222.6	197.0	185.1	183.4
30°	567.8	509.9	448.5	387.2	332.7	285.0	244.1	214.6	199.9	197.6
32.5°	628.5	562.7	495.1	427.0	367.3	311.7	264.0	232.2	214.0	211.8
35°	686.4	618.3	539.4	466.1	398.0	338.4	285.0	248.1	227.7	225.4
37.5°	743.2	666.0	583.1	502.5	428.7	361.1	304.3	262.9	240.2	237.9
40°	797.1	711.4	621.1	536.0	455.4	383.8	320.8	275.9	250.4	247.5
42.5°	838.6	750.6	656.3	564.4	478.6	400.8	335.6	286.2	258.3	254.4
45°	880.0	785.8	686.4	589.3	499.1	417.3	347.5	295.2	265.7	261.2
47.5°	914.1	815.9	710.8	609.8	516.1	431.5	357.7	301.5	270.3	265.7
50°	946.5	842.6	733.6	628.5	531.4	444.0	366.2	306.6	273.1	268.6
52.5°	971.5	864.7	751.7	643.3	543.9	453.1	373.0	310.0	274.8	269.7
55°	992.5	882.9	766.5	654.6	553.6	461.0	378.1	311.7	274.8	269.7
57.5°	1010.1	897.1	778.4	664.9	561.0	466.1	381.5	312.3	273.1	268.0
60°	1025.4	910.1	788.1	672.8	567.8	471.2	383.8	312.3	271.4	265.7
62.5°	1037.9	919.2	795.4	679.1	572.9	475.2	384.9	311.1	268.0	262.3
65°	1045.3	925.5	800.0	682.5	575.7	476.4	384.9	309.4	264.6	258.9
67.5°	*1051.5*	*929.4*	*802.8*	*684.2*	*577.4*	*477.5*	*384.4*	*306.6*	*261.2*	*255.5*
70°	1054.3	931.1	804.0	685.3	578.6	476.9	382.7	304.3	257.8	251.0
72.5°	1054.9	931.7	803.4	685.3	578.6	476.9	381.0	300.9	253.8	247.5
75°	1053.8	930.0	801.7	684.7	578.0	475.2	379.3	298.1	250.4	243.6
77.5°	1050.4	926.6	798.9	682.5	575.1	473.5	375.9	294.7	246.4	240.2
80°	1044.7	920.9	794.3	678.5	571.7	470.1	373.0	291.3	243.0	236.8
82.5°	1036.2	913.5	788.6	673.4	568.3	466.1	369.6	287.9	239.6	233.4
85°	1026.0	904.5	780.1	667.1	563.2	461.6	365.1	283.9	236.2	229.9
87.5°	1011.8	893.1	771.0	659.7	556.4	455.9	360.0	280.5	233.4	227.1
90°	998.1	880.6	761.4	651.8	550.2	450.8	355.4	276.5	231.1	224.8
92.5°	982.2	865.8	749.5	642.7	541.7	444.0	350.9	273.1	228.8	223.1
95°	964.1	850.0	737.0	631.9	533.7	437.2	345.2	269.7	226.5	221.4
97.5°	943.6	832.9	723.3	620.6	524.1	429.8	340.1	266.9	225.4	219.7
100°	922.6	813.6	708.6	609.2	514.4	421.9	335.0	264.0	224.8	219.7
102.5°	898.8	796.0	693.8	597.9	504.7	414.5	329.9	262.3	224.8	219.7
105°	876.1	775.6	677.9	585.4	495.1	407.1	325.3	261.2	225.4	220.9
107.5°	851.7	756.3	662.0	572.3	484.3	399.7	321.4	260.0	226.5	222.0
110°	828.9	737.5	647.3	559.8	474.7	392.9	317.4	259.5	227.7	223.7

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

Scaled Data Report

REPORT NUMBER: P1223971
CATALOG NUMBER: FFX-CLB-70-722-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	804.0	717.1	630.8	546.2	464.4	384.9	313.4	258.3	228.8	225.4
115°	777.8	695.5	614.3	532.6	452.5	377.6	309.4	257.8	229.9	226.5
117.5°	749.5	672.2	594.5	516.7	440.0	368.5	303.8	255.5	229.9	226.5
120°	718.8	647.8	572.9	499.6	425.8	357.7	298.1	252.7	228.8	226.0
122.5°	685.3	618.9	547.9	478.1	409.9	345.2	289.6	247.5	226.0	223.1
125°	648.4	586.5	522.3	454.8	390.1	331.0	279.3	241.9	221.4	219.2
127.5°	609.8	553.0	491.7	430.4	371.3	315.7	268.6	233.4	215.2	212.9
130°	566.6	515.5	459.9	403.1	349.2	298.1	255.5	223.7	207.2	205.0
132.5°	525.2	478.6	428.7	378.1	325.9	281.0	241.3	212.9	198.7	196.4
135°	482.0	441.2	396.3	348.6	304.3	262.3	227.1	202.1	189.1	187.4
137.5°	440.0	405.4	363.4	321.4	282.2	244.1	213.5	191.9	180.0	178.8
140°	400.8	368.5	333.3	296.4	260.0	227.1	200.4	180.6	170.9	169.2
142.5°	362.8	335.0	303.2	272.0	238.5	210.6	187.4	169.8	161.8	160.7
145°	327.0	303.8	275.9	247.5	219.2	194.7	174.9	160.1	153.3	152.7
147.5°	293.5	274.2	249.8	226.0	202.1	181.7	163.5	152.2	145.9	145.3
150°	262.9	245.3	226.0	205.5	185.7	167.5	153.9	143.6	138.5	138.0
152.5°	233.9	220.3	204.4	187.9	170.9	156.7	144.2	136.8	132.9	132.3
155°	208.9	198.2	185.1	170.9	157.8	146.5	136.8	131.2	127.7	127.7
157.5°	187.9	178.8	169.2	157.8	147.1	138.0	131.2	126.0	123.2	123.2
160°	169.8	161.8	154.4	145.9	138.5	131.2	126.0	122.1	119.8	119.8
162.5°	154.4	148.8	143.1	136.8	130.6	126.0	121.5	118.7	117.5	117.0
165°	141.9	138.5	134.0	129.5	125.5	121.5	118.7	117.0	115.8	115.8
167.5°	132.3	130.0	126.6	123.8	120.9	118.1	116.4	115.3	114.7	114.7
170°	124.9	123.2	120.9	119.2	117.5	115.8	114.7	114.1	113.6	113.6
172.5°	119.2	117.5	116.4	115.8	114.7	114.1	113.6	113.0	113.0	113.0
175°	115.3	114.1	114.1	113.6	113.0	113.0	112.4	112.4	112.4	113.0
177.5°	112.4	112.4	112.4	112.4	112.4	113.0	113.0	113.0	113.6	113.6
180°	114.1	114.1	114.1	114.1	114.1	114.1	114.1	114.1	114.1	114.1

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

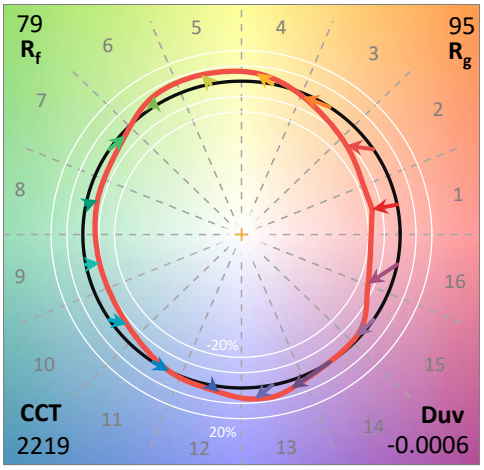
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
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-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

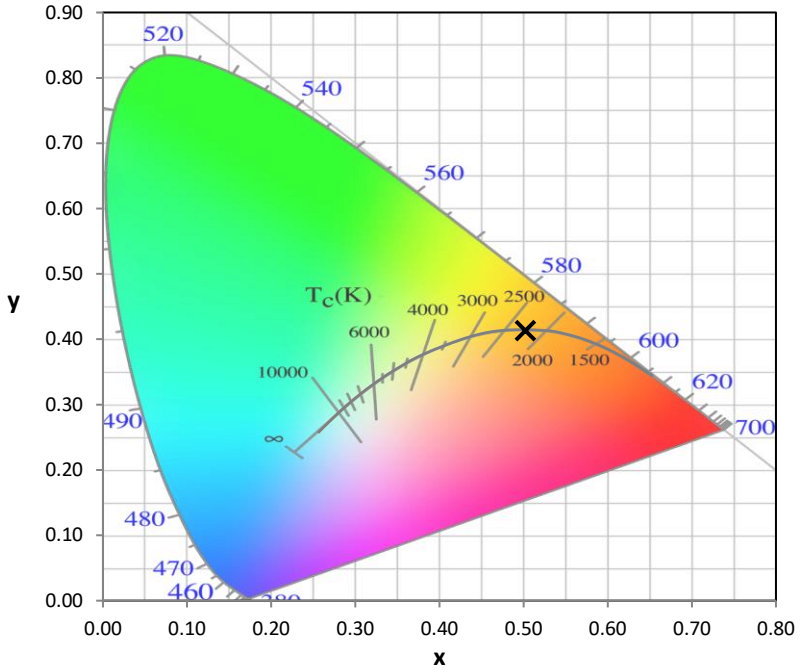
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

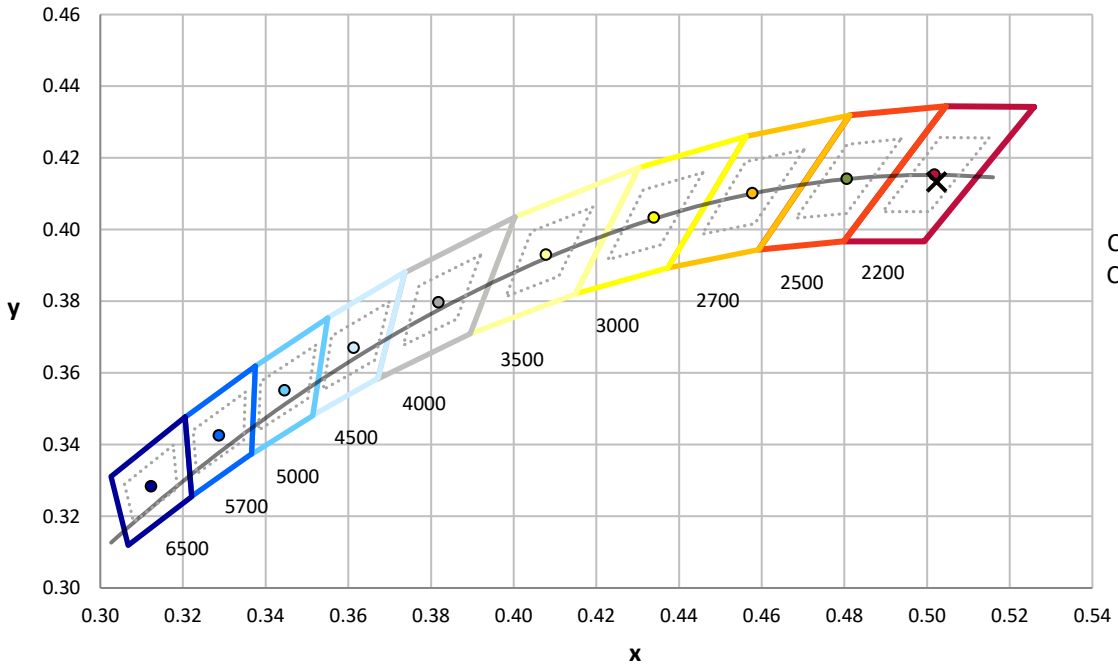
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

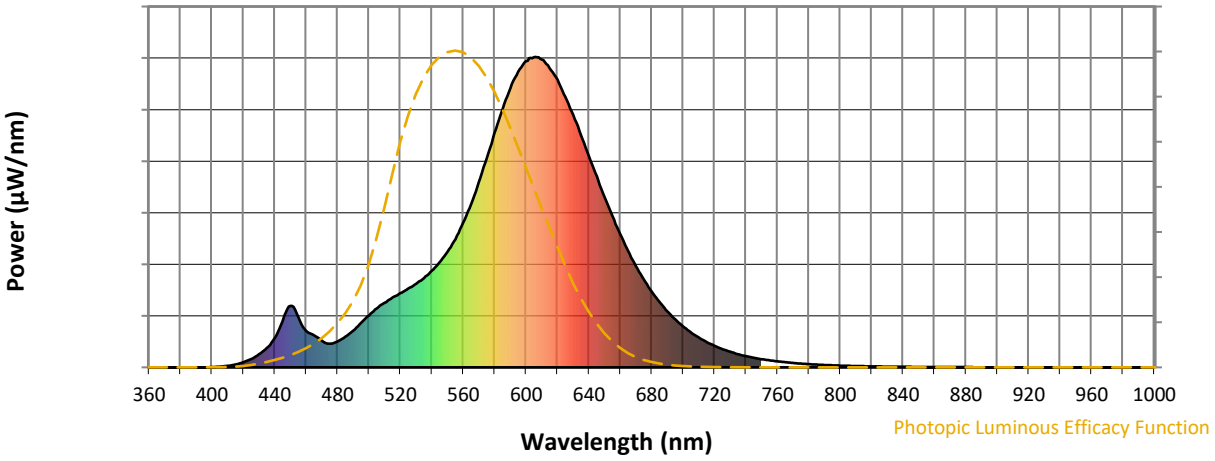


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

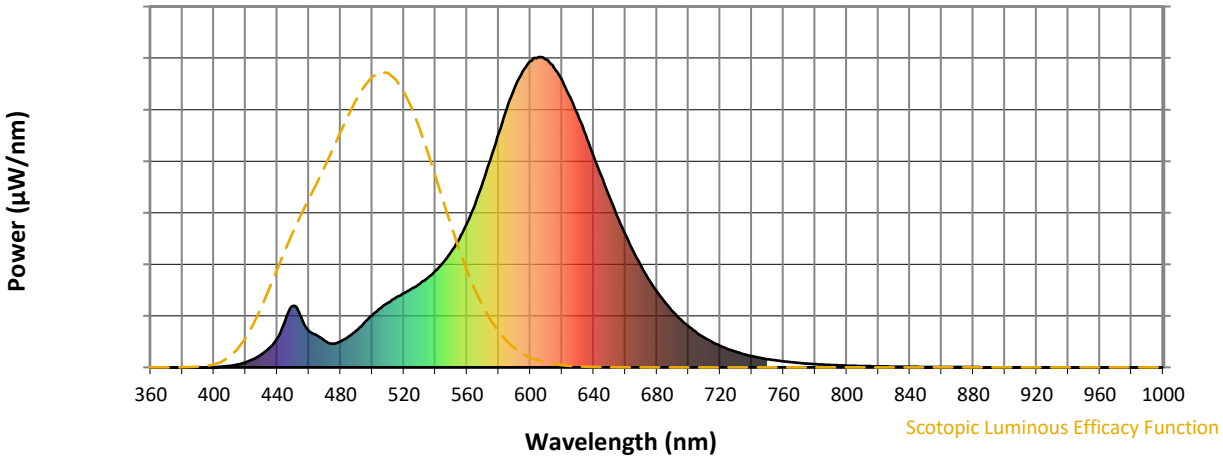


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

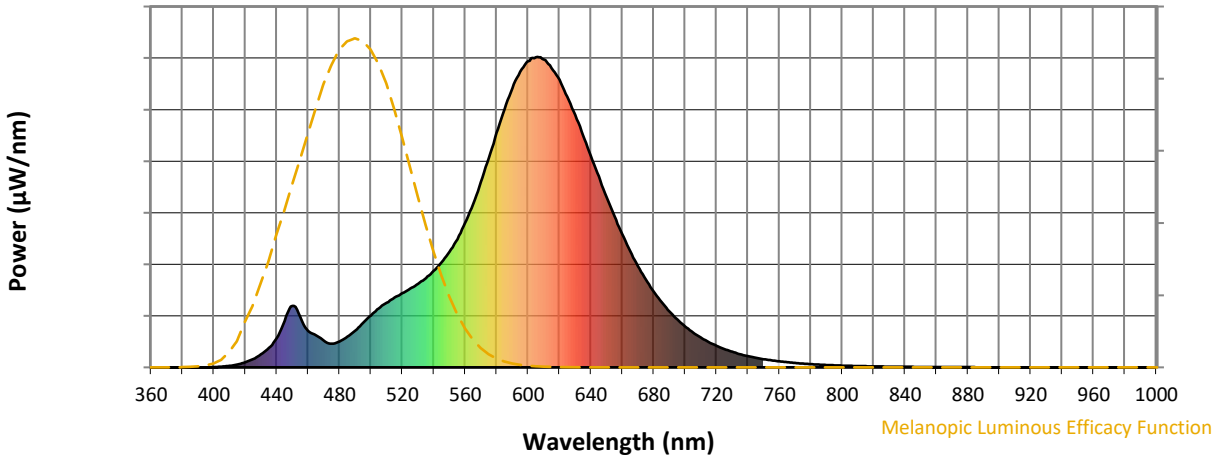


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

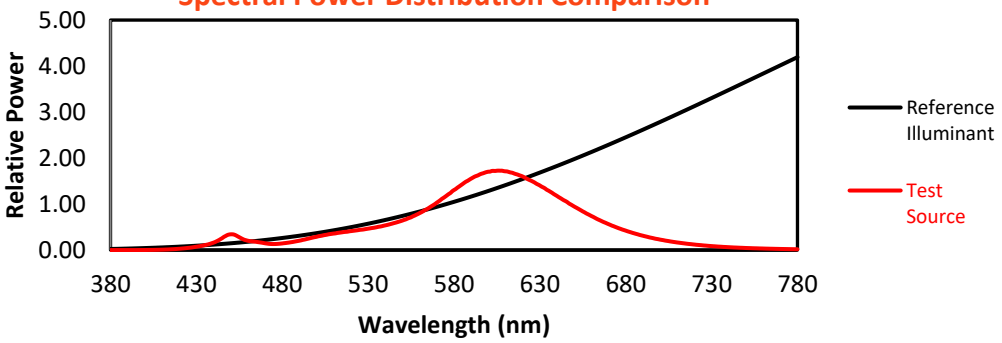
REPORT NUMBER: SP1-2501-332-2

TM-30-18

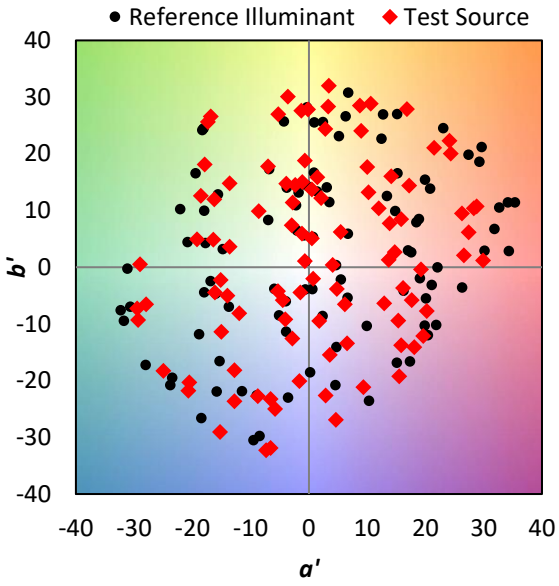
Summary

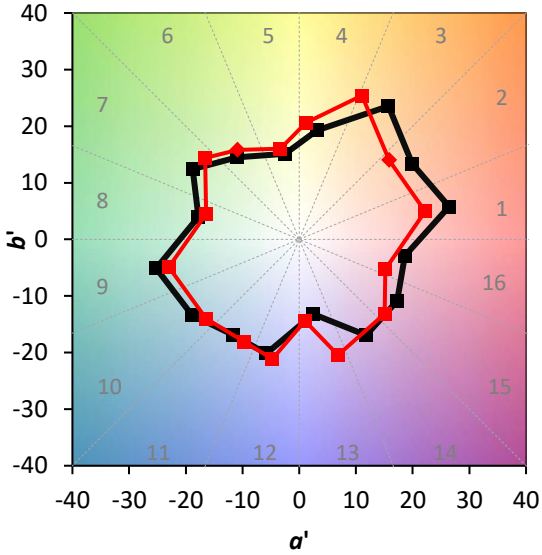
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

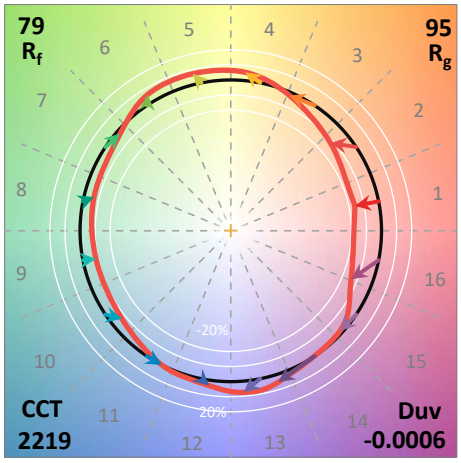
Spectral Power Distribution Comparison

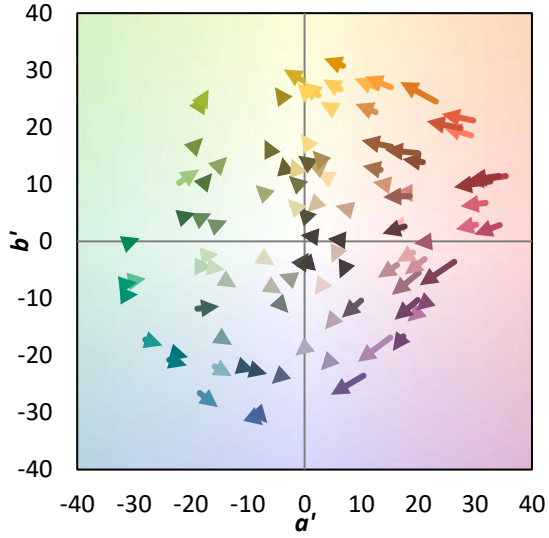


Color Vector Graphics







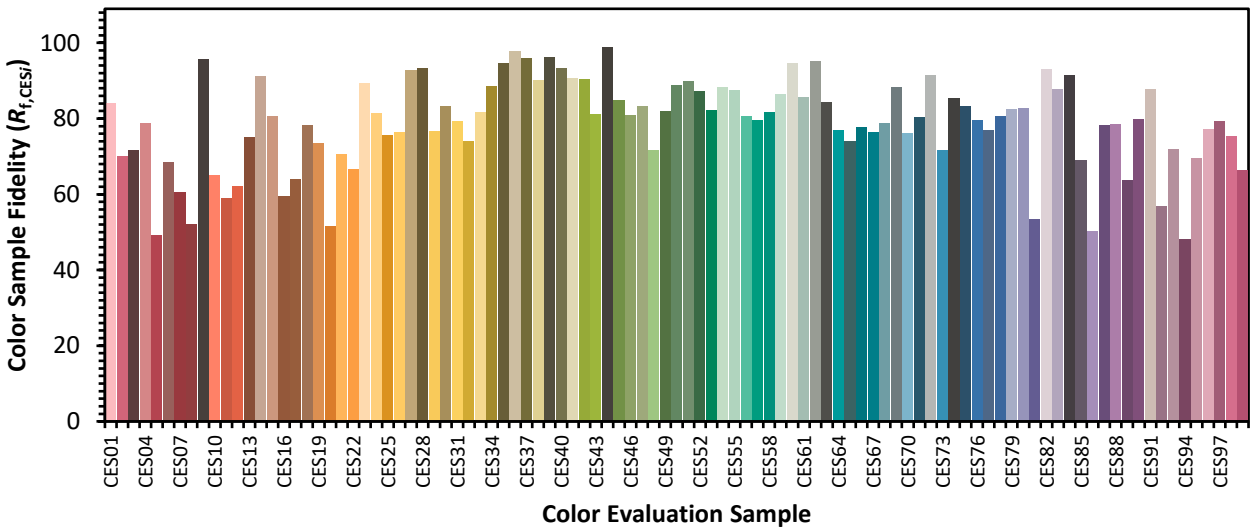


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

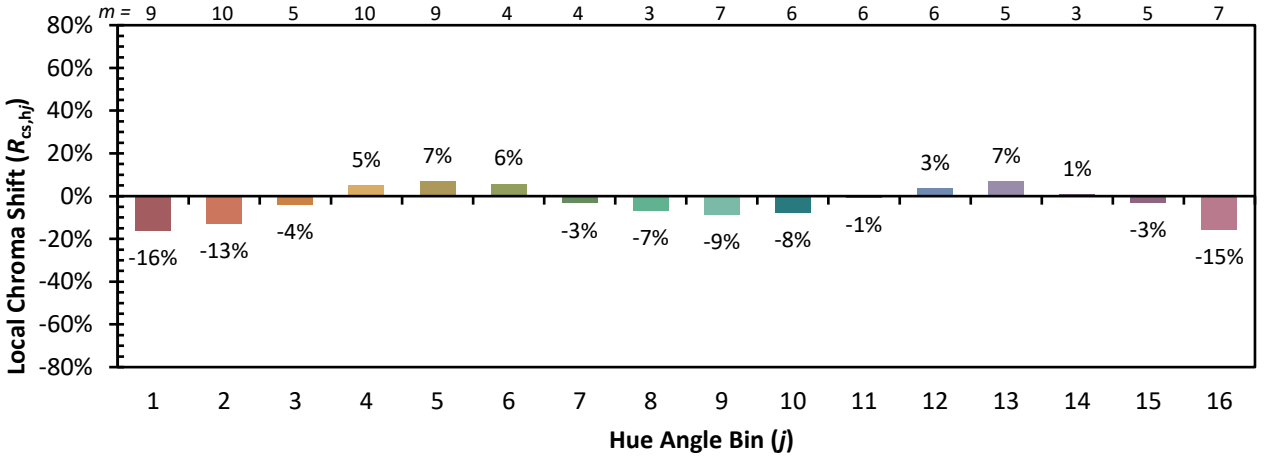
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

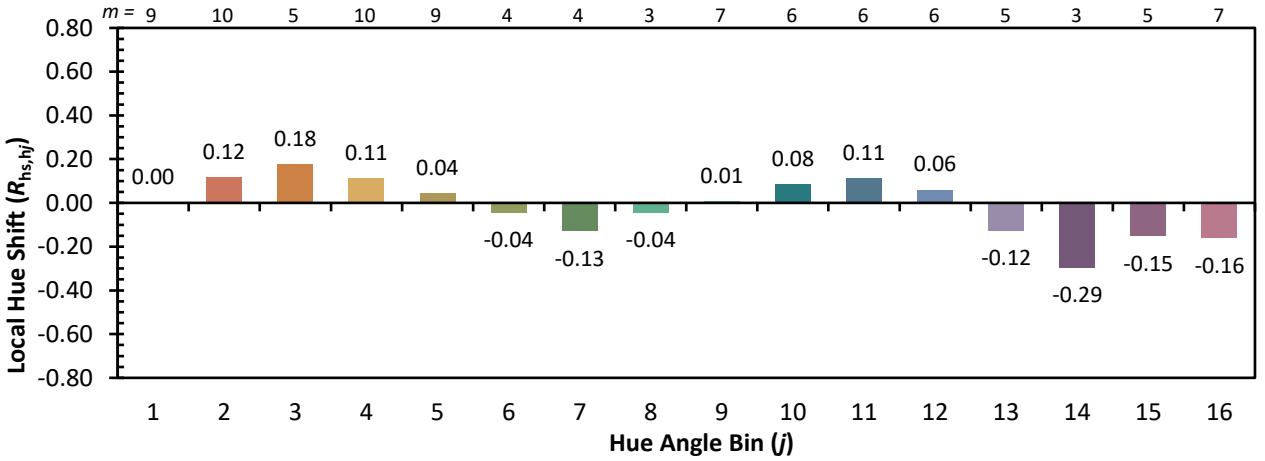


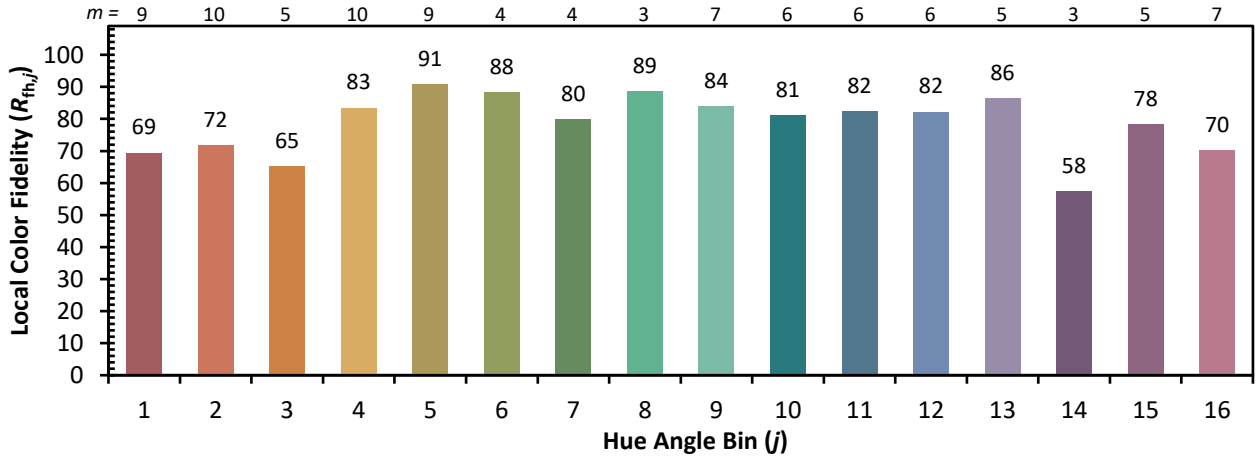
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Color Rendition by Hue-Angle Bin



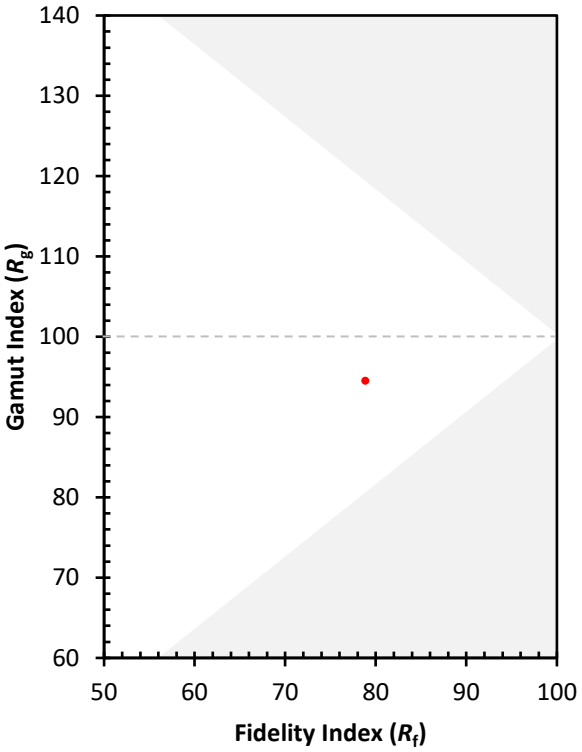


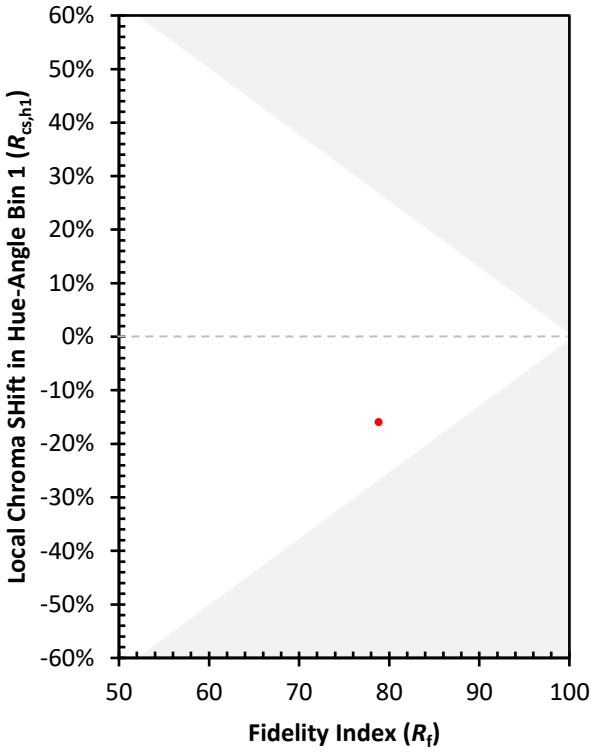


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Measure Comparisons





(END OF REPORT)