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: P1223970

Luminaire Tested: **FFX-CLB-80-722-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:	P1223970
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-722-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:	10171.5 lumens
Efficiency:	N/A
Efficacy:	124.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U5 - G5

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

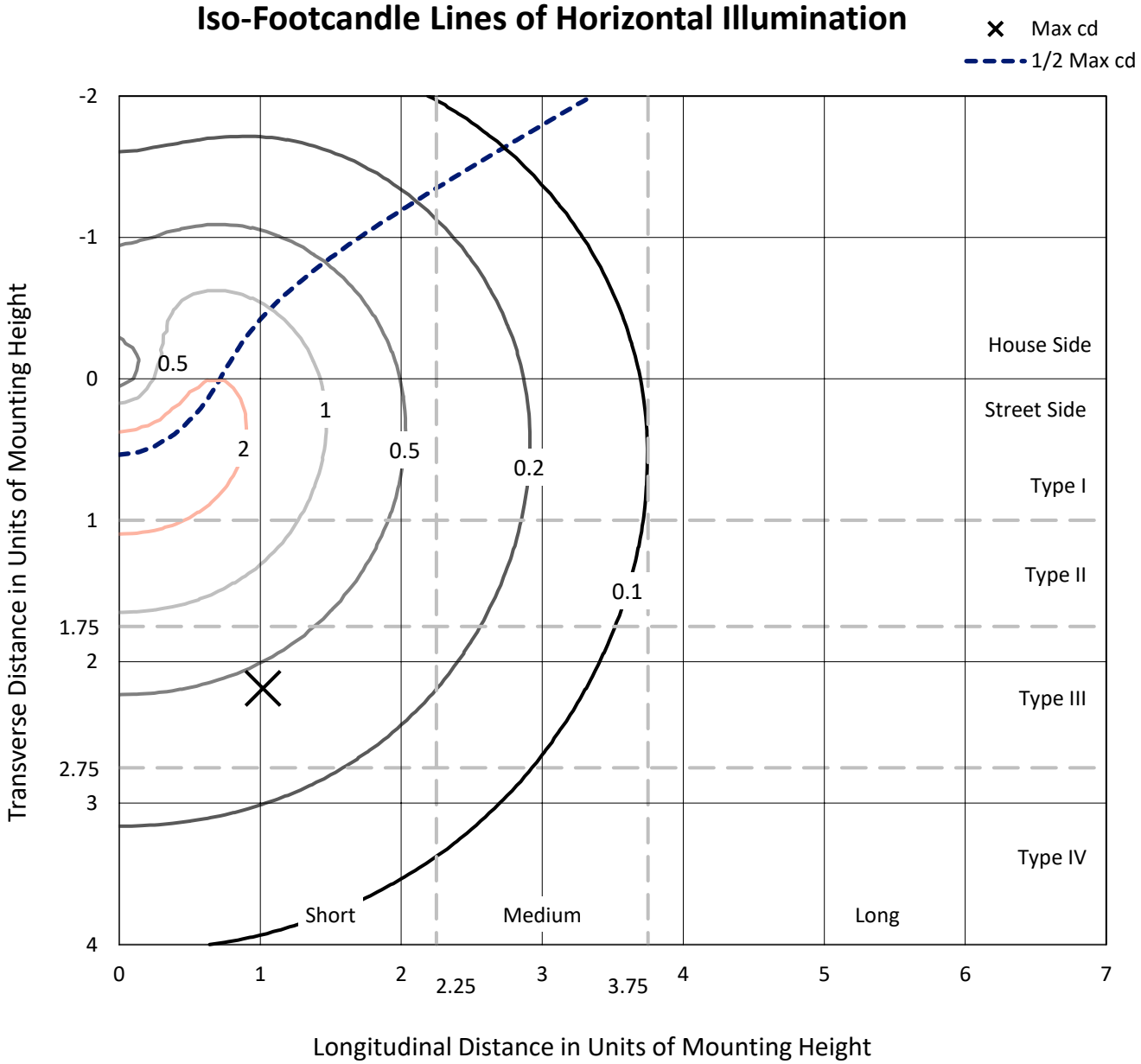


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Iso-Footcandle Lines of Horizontal Illumination



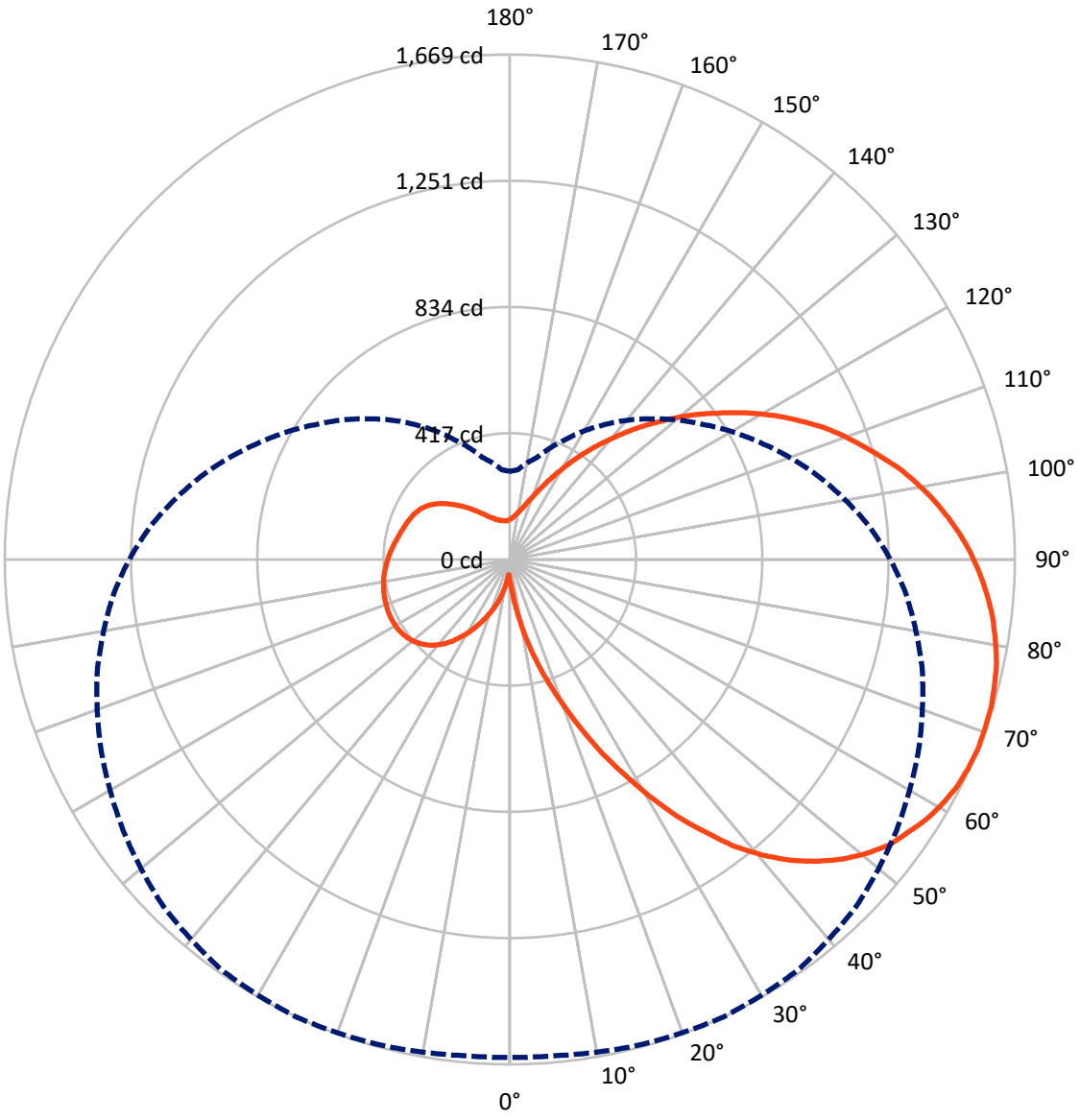
Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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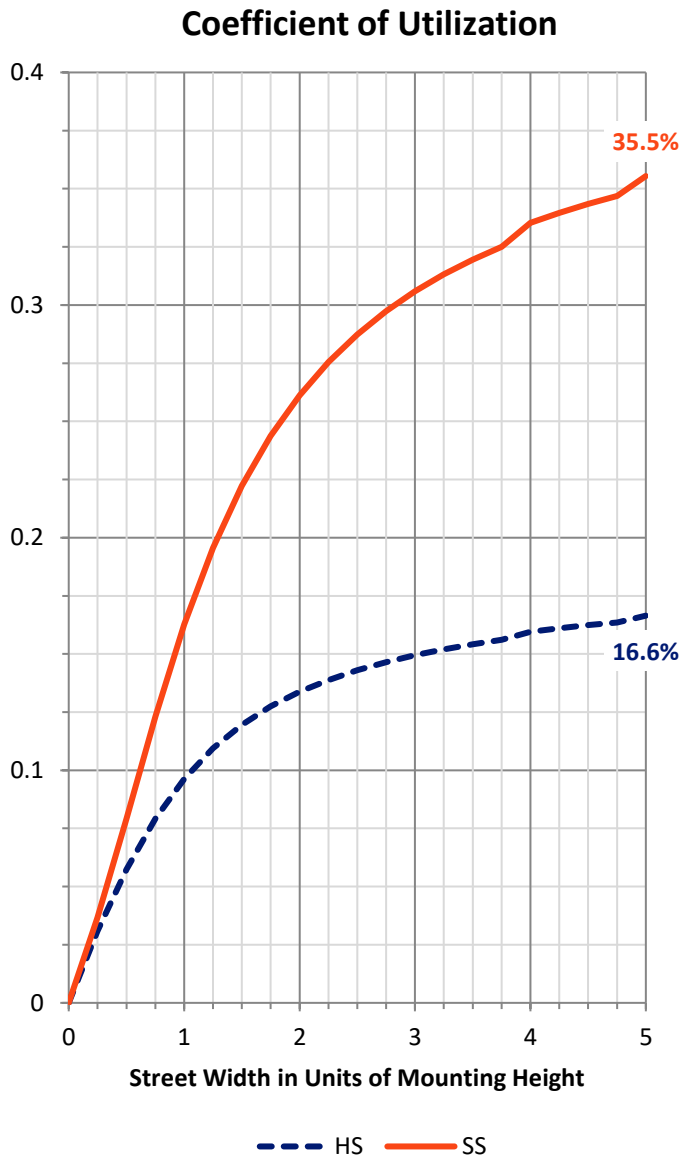
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1862.8	1423.9	3286.7
	% Fixture	18.3	14.0	32.3
Street Side	Lumens	4116.1	2768.8	6884.9
	% Fixture	40.5	27.2	67.7
Total	Lumens	5978.9	4192.7	10171.5
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.1
10°-20°	77.4	0.8
20°-30°	231.7	2.3
30°-40°	476.8	4.7
40°-50°	744.6	7.3
50°-60°	964.3	9.5
60°-70°	1111.9	10.9
70°-80°	1183.1	11.6
80°-90°	1177.9	11.6
90°-100°	1098.9	10.8
100°-110°	960.5	9.4
110°-120°	786.6	7.7
120°-130°	585.0	5.8
130°-140°	380.5	3.7
140°-150°	215.5	2.1
150°-160°	106.2	1.0
160°-170°	46.4	0.5
170°-180°	13.0	0.1
0°-90°	5978.9	58.8
0°-180°	10171.5	100.0



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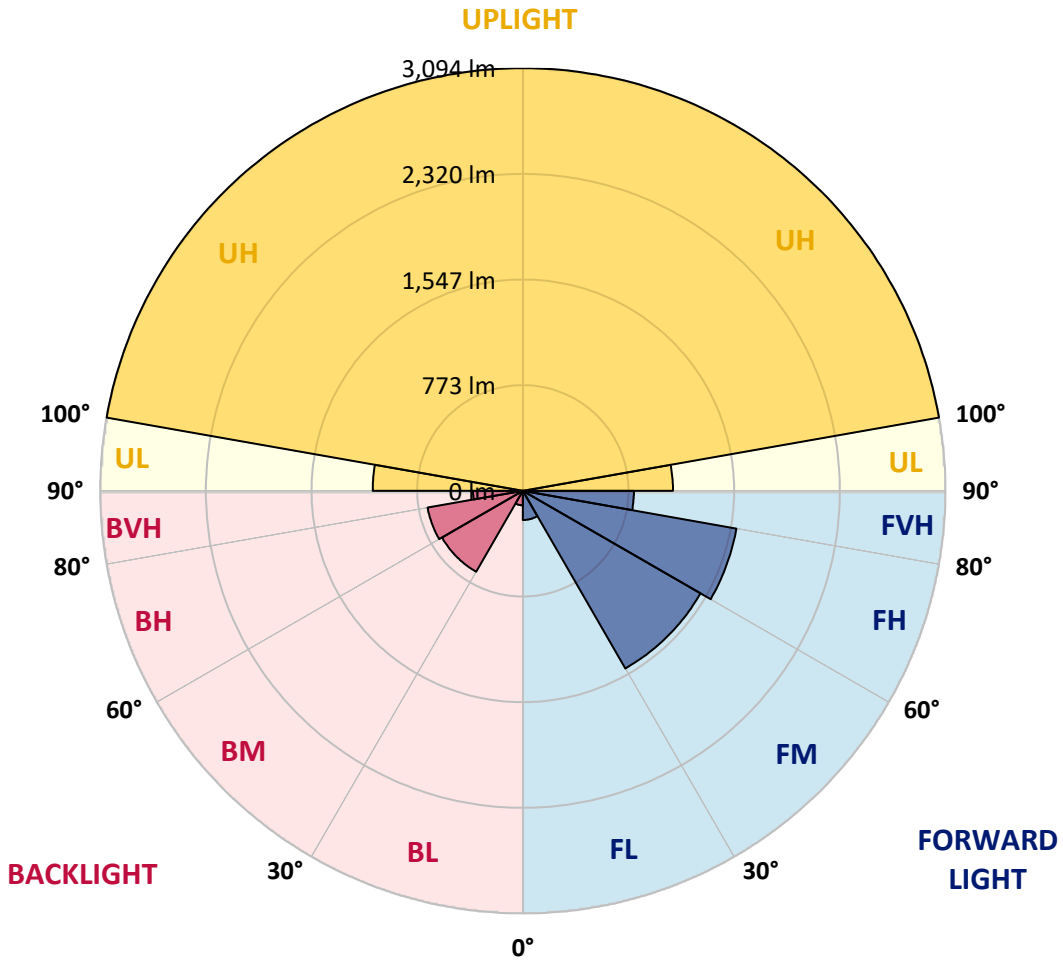
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	213.7	2.1			
FM	(30°-60°)	1501.8	14.8			
FH	(60°-80°)	1587.5	15.6			G1/1800
FVH	(80°-90°)	813.1	8.0			G5
BL	(0°-30°)	106.5	1.0	B0/110		
BM	(30°-60°)	683.9	6.7	B1/1000		
BH	(60°-80°)	707.5	7.0	B2/1000		G2/1000
BVH	(80°-90°)	364.9	3.6			G3/500
UL	(90°-100°)	1098.9	10.8		U5	
UH	(100°-180°)	3093.8	30.4		U5	

BUG Rating: B2-U5-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
2.5°	87.8	87.8	88.5	88.5	87.2	87.8	86.5	84.6	83.3	80.1	78.8
5°	127.8	125.9	126.6	125.3	122.7	121.4	116.2	112.3	105.9	98.8	95.6
7.5°	177.6	178.2	175.6	172.4	171.8	164.6	163.4	151.1	145.9	133.7	130.4
10°	238.9	237.6	235.0	234.4	228.6	221.5	210.5	204.0	187.2	178.2	171.1
12.5°	306.1	306.7	302.2	297.7	292.5	282.8	268.0	257.6	244.1	225.3	216.3
15°	378.4	375.8	375.8	370.6	362.9	351.9	340.3	325.4	306.1	286.0	273.1
17.5°	445.5	450.7	448.8	442.3	435.2	421.6	409.4	388.7	367.4	345.4	329.3
20°	529.5	530.8	527.5	521.7	515.3	499.8	484.9	464.2	437.8	403.6	390.0
22.5°	614.0	616.6	616.6	613.4	604.4	590.8	566.9	544.3	511.4	477.2	454.6
25°	711.5	709.6	711.5	709.6	694.8	682.5	658.0	630.8	595.3	553.4	526.2
27.5°	809.7	812.3	807.1	802.6	796.8	777.4	750.9	716.7	672.2	628.3	599.2
30°	905.3	911.1	911.1	905.9	896.9	877.5	847.8	811.0	761.9	706.4	672.2
32.5°	1005.3	1007.3	1009.9	1009.2	998.9	980.2	947.2	897.5	842.6	781.3	747.7
35°	1111.2	1105.4	1106.7	1102.8	1098.3	1075.1	1037.0	989.2	929.8	861.3	820.7
37.5°	1199.0	1196.5	1198.4	1201.6	1189.4	1165.5	1121.6	1066.0	1000.8	929.1	888.5
40°	1282.3	1280.4	1283.6	1284.3	1272.0	1244.2	1197.7	1144.2	1073.8	991.1	953.0
42.5°	1352.1	1352.1	1355.3	1359.2	1346.3	1316.6	1269.4	1205.5	1133.2	1049.9	1003.4
45°	1416.6	1414.7	1421.2	1423.1	1410.2	1380.5	1327.5	1263.0	1185.5	1100.9	1052.5
47.5°	1468.3	1468.9	1475.4	1479.3	1467.6	1434.1	1380.5	1312.0	1231.3	1142.9	1093.1
50°	1510.9	1516.7	1522.5	1527.0	1514.8	1481.2	1425.7	1351.4	1270.7	1181.6	1129.9
52.5°	1553.5	1553.5	1562.6	1568.4	1554.8	1519.9	1461.8	1389.5	1306.9	1212.6	1162.2
55°	1580.6	1581.3	1592.3	1594.2	1585.8	1549.6	1490.2	1417.9	1335.3	1240.4	1186.8
57.5°	1604.5	1605.2	1617.4	1622.0	1610.3	1575.5	1514.8	1439.9	1359.2	1262.3	1208.1
60°	1625.2	1624.5	1634.9	1641.3	1629.7	1592.9	1533.5	1460.5	1377.9	1282.3	1226.2
62.5°	1638.1	1638.1	1650.4	1656.8	1644.6	1608.4	1547.7	1475.4	1392.7	1295.9	1240.4
65°	1643.9	1645.2	1656.8	1664.6	1653.0	1616.2	1555.5	1484.4	1403.1	1306.9	1250.7
67.5°	1645.9	1646.5	1660.7	1668.5	1657.5	1620.0	1560.0	1490.2	1410.8	1314.0	1257.1
70°	1647.1	1647.8	1658.8	1666.5	1656.8	1619.4	1561.3	1492.8	1415.3	1317.8	1261.0
72.5°	1640.0	1642.0	1654.2	1663.3	1651.7	1614.9	1558.0	1492.8	1414.7	1320.4	1262.3
75°	1631.0	1635.5	1646.5	1654.2	1643.9	1608.4	1552.9	1490.2	1414.1	1319.1	1262.3
77.5°	1622.0	1622.6	1636.8	1643.9	1632.9	1596.8	1543.8	1483.8	1410.2	1315.3	1257.8
80°	1603.9	1607.8	1620.0	1626.5	1616.8	1582.6	1530.9	1474.7	1403.1	1308.8	1250.7
82.5°	1591.0	1589.7	1601.9	1607.8	1598.1	1562.6	1516.1	1460.5	1392.7	1297.8	1241.0
85°	1566.4	1569.0	1578.7	1583.9	1572.9	1540.6	1496.1	1446.3	1378.5	1285.6	1228.1
87.5°	1543.2	1544.5	1550.9	1556.7	1545.8	1514.8	1473.5	1426.3	1361.1	1270.1	1213.9
90°	1514.1	1514.8	1521.9	1526.4	1516.7	1487.7	1449.6	1403.7	1342.4	1252.6	1196.5
92.5°	1487.0	1485.7	1490.9	1492.8	1484.4	1456.0	1421.8	1379.2	1319.8	1231.3	1177.1
95°	1451.5	1450.9	1455.4	1454.1	1445.0	1420.5	1389.5	1352.1	1293.3	1208.7	1155.1
97.5°	1412.1	1412.8	1415.3	1414.1	1404.4	1381.8	1357.9	1320.4	1266.2	1182.2	1130.6
100°	1368.2	1370.1	1374.0	1370.1	1361.8	1345.0	1319.8	1288.8	1235.2	1155.8	1104.8
102.5°	1331.4	1326.2	1324.9	1324.3	1315.9	1301.1	1281.7	1254.6	1204.8	1126.7	1077.6
105°	1283.0	1279.7	1279.1	1272.0	1268.8	1256.5	1240.4	1215.8	1171.3	1097.7	1049.9
107.5°	1232.0	1232.6	1230.0	1221.6	1217.1	1208.7	1199.7	1177.7	1135.1	1065.4	1021.5
110°	1186.1	1182.9	1175.8	1171.9	1168.7	1161.6	1155.8	1139.0	1099.6	1034.4	990.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1129.3	1131.2	1122.8	*1120.3*	1115.1	1114.5	1110.6	1097.0	1062.2	1001.5	960.1
115°	1078.3	1077.0	1068.6	*1063.4*	1061.5	1062.8	1065.4	1055.7	1023.4	965.9	927.8
117.5°	1022.1	1018.2	1012.4	*1007.3*	1004.7	1009.9	1015.7	1011.1	984.0	929.8	893.6
120°	962.1	962.7	954.3	*949.2*	949.8	958.2	965.9	963.4	937.5	889.1	856.8
122.5°	905.9	902.7	895.6	*890.4*	894.9	904.0	913.0	912.4	889.8	842.6	813.6
125°	844.6	843.9	836.8	*831.6*	835.5	845.8	856.8	858.1	836.8	797.4	768.4
127.5°	786.4	784.5	783.2	*777.4*	780.0	794.2	801.9	801.3	782.6	746.4	721.2
130°	730.9	730.3	722.5	*719.9*	723.2	734.8	742.5	741.2	726.4	694.8	672.2
132.5°	674.7	672.2	668.9	*665.1*	667.6	677.3	687.7	686.4	668.9	638.6	620.5
135°	619.2	617.3	614.7	*612.1*	614.0	623.7	632.8	630.2	615.3	588.2	570.1
137.5°	568.2	566.3	563.0	*559.8*	562.4	570.1	576.0	574.0	561.7	535.9	518.5
140°	515.3	516.5	512.7	*510.1*	511.4	519.1	523.7	521.1	507.5	486.2	472.0
142.5°	466.8	466.8	464.9	*464.2*	466.2	470.1	473.9	468.8	459.7	437.8	426.2
145°	420.3	421.0	420.3	*419.0*	419.7	424.2	424.9	422.9	412.6	396.5	383.5
147.5°	376.4	378.4	377.1	*377.1*	377.7	379.7	382.2	377.7	368.7	354.5	345.4
150°	335.8	337.0	337.0	*335.8*	335.8	338.3	338.3	335.1	328.0	316.4	308.0
152.5°	300.2	300.9	300.9	*299.6*	300.2	300.9	299.6	295.7	289.9	280.9	274.4
155°	268.0	269.3	267.3	*268.0*	266.0	266.7	266.0	263.4	257.0	249.2	245.4
157.5°	238.9	240.8	239.5	*239.5*	238.3	237.6	237.0	234.4	229.9	223.4	218.9
160°	215.7	217.0	215.0	*215.0*	213.7	213.7	211.1	209.8	205.3	199.5	196.9
162.5°	195.6	195.6	195.0	*195.6*	195.0	193.1	191.8	189.2	185.3	180.8	178.9
165°	179.5	178.9	178.9	*178.2*	177.6	176.3	174.3	173.0	169.2	165.3	164.0
167.5°	167.2	166.6	165.9	*165.3*	164.0	163.4	161.4	160.1	156.9	153.7	152.4
170°	156.9	156.9	155.6	*155.0*	154.3	153.0	151.1	149.2	146.6	144.6	143.3
172.5°	147.9	147.9	147.2	*146.6*	145.9	144.6	142.7	141.4	139.5	137.5	136.2
175°	141.4	141.4	140.8	*139.5*	138.8	137.5	136.2	134.9	133.0	131.7	131.1
177.5°	136.2	136.2	136.2	*134.9*	134.3	133.0	131.7	130.4	129.8	128.5	128.5
180°	129.8	129.8	129.8	*129.8*	129.8	129.8	129.8	129.8	129.8	129.8	129.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
2.5°	76.8	73.0	69.7	64.6	60.0	56.2	53.6	51.7	50.4	49.1
5°	91.7	84.6	77.5	69.7	62.6	56.2	51.0	47.1	45.2	45.2
7.5°	125.3	114.3	102.0	91.0	82.6	74.3	66.5	62.0	59.4	58.1
10°	164.0	147.9	135.6	122.0	107.2	96.9	87.8	82.0	78.8	79.4
12.5°	210.5	190.5	175.0	155.0	138.8	122.7	113.0	104.6	100.7	100.1
15°	262.1	238.9	216.3	192.4	171.1	152.4	138.2	127.2	120.7	120.1
17.5°	316.4	287.3	257.0	229.9	202.1	178.9	159.5	146.6	139.5	139.5
20°	371.3	338.3	302.8	267.3	233.7	205.3	182.7	165.9	156.9	155.6
22.5°	434.5	392.6	350.0	306.7	268.6	233.1	204.0	184.0	174.3	172.4
25°	503.6	453.9	402.9	351.9	304.8	262.1	228.6	206.0	192.4	190.5
27.5°	575.3	515.3	455.2	395.8	340.9	293.8	253.1	224.1	210.5	208.6
30°	645.7	579.8	510.1	440.4	378.4	324.1	277.6	244.1	227.3	224.7
32.5°	714.8	639.9	563.0	485.6	417.8	354.5	300.2	264.1	243.4	240.8
35°	780.6	703.2	613.4	530.1	452.6	384.8	324.1	282.2	258.9	256.3
37.5°	845.2	757.4	663.1	571.4	487.5	410.7	346.1	299.0	273.1	270.5
40°	906.5	809.0	706.4	609.5	517.8	436.5	364.8	313.8	284.7	281.5
42.5°	953.7	853.6	746.4	641.8	544.3	455.9	381.6	325.4	293.8	289.3
45°	1000.8	893.6	780.6	670.2	567.6	474.6	395.2	335.8	302.2	297.0
47.5°	1039.6	927.8	808.4	693.5	586.9	490.7	406.8	342.9	307.3	302.2
50°	1076.4	958.2	834.2	714.8	604.4	504.9	416.5	348.7	310.6	305.4
52.5°	1104.8	983.4	854.9	731.6	618.6	515.3	424.2	352.5	312.5	306.7
55°	1128.7	1004.0	871.7	744.5	629.5	524.3	430.0	354.5	312.5	306.7
57.5°	1148.7	1020.2	885.2	756.1	637.9	530.1	433.9	355.1	310.6	304.8
60°	1166.1	1035.0	896.2	765.1	645.7	535.9	436.5	355.1	308.6	302.2
62.5°	1180.3	1045.4	904.6	772.2	651.5	540.4	437.8	353.8	304.8	298.3
65°	1188.7	1052.5	909.8	776.1	654.7	541.7	437.8	351.9	300.9	294.4
67.5°	*1195.8*	*1057.0*	*913.0*	*778.1*	*656.7*	*543.0*	*437.1*	*348.7*	*297.0*	*290.6*
70°	1199.0	1058.9	914.3	779.3	658.0	542.4	435.2	346.1	293.1	285.4
72.5°	1199.7	1059.6	913.6	779.3	658.0	542.4	433.3	342.2	288.6	281.5
75°	1198.4	1057.6	911.7	778.7	657.3	540.4	431.3	339.0	284.7	277.0
77.5°	1194.5	1053.8	908.5	776.1	654.1	538.5	427.4	335.1	280.2	273.1
80°	1188.1	1047.3	903.3	771.6	650.2	534.6	424.2	331.2	276.4	269.3
82.5°	1178.4	1038.9	896.9	765.8	646.3	530.1	420.3	327.4	272.5	265.4
85°	1166.8	1028.6	887.2	758.7	640.5	524.9	415.2	322.8	268.6	261.5
87.5°	1150.6	1015.7	876.8	750.3	632.8	518.5	409.4	319.0	265.4	258.3
90°	1135.1	1001.5	865.9	741.2	625.7	512.7	404.2	314.4	262.8	255.7
92.5°	1117.0	984.7	852.3	730.9	616.0	504.9	399.0	310.6	260.2	253.8
95°	1096.4	966.6	838.1	718.6	606.9	497.2	392.6	306.7	257.6	251.8
97.5°	1073.1	947.2	822.6	705.7	596.0	488.8	386.8	303.5	256.3	249.9
100°	1049.2	925.3	805.8	692.8	585.0	479.7	381.0	300.2	255.7	249.9
102.5°	1022.1	905.3	789.0	679.9	574.0	471.4	375.1	298.3	255.7	249.9
105°	996.3	882.0	770.9	665.7	563.0	463.0	370.0	297.0	256.3	251.2
107.5°	968.5	860.1	752.9	650.9	550.8	454.6	365.5	295.7	257.6	252.5
110°	942.7	838.7	736.1	636.6	539.8	446.8	360.9	295.1	258.9	254.4

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

Scaled Data Report

REPORT NUMBER: P1223970
CATALOG NUMBER: FFX-CLB-80-722-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	914.3	815.5	717.4	621.1	528.2	437.8	356.4	293.8	260.2	256.3
115°	884.6	791.0	698.6	605.7	514.6	429.4	351.9	293.1	261.5	257.6
117.5°	852.3	764.5	676.0	587.6	500.4	419.0	345.4	290.6	261.5	257.6
120°	817.4	736.7	651.5	568.2	484.3	406.8	339.0	287.3	260.2	257.0
122.5°	779.3	703.8	623.1	543.7	466.2	392.6	329.3	281.5	257.0	253.8
125°	737.4	667.0	594.0	517.2	443.6	376.4	317.7	275.1	251.8	249.2
127.5°	693.5	628.9	559.2	489.4	422.3	359.0	305.4	265.4	244.7	242.1
130°	644.4	586.3	523.0	458.4	397.1	339.0	290.6	254.4	235.7	233.1
132.5°	597.3	544.3	487.5	430.0	370.6	319.6	274.4	242.1	226.0	223.4
135°	548.2	501.7	450.7	396.5	346.1	298.3	258.3	229.9	215.0	213.1
137.5°	500.4	461.0	413.2	365.5	320.9	277.6	242.8	218.2	204.7	203.4
140°	455.9	419.0	379.0	337.0	295.7	258.3	227.9	205.3	194.4	192.4
142.5°	412.6	381.0	344.8	309.3	271.2	239.5	213.1	193.1	184.0	182.7
145°	371.9	345.4	313.8	281.5	249.2	221.5	198.9	182.1	174.3	173.7
147.5°	333.8	311.9	284.1	257.0	229.9	206.6	186.0	173.0	165.9	165.3
150°	299.0	278.9	257.0	233.7	211.1	190.5	175.0	163.4	157.5	156.9
152.5°	266.0	250.5	232.4	213.7	194.4	178.2	164.0	155.6	151.1	150.4
155°	237.6	225.3	210.5	194.4	179.5	166.6	155.6	149.2	145.3	145.3
157.5°	213.7	203.4	192.4	179.5	167.2	156.9	149.2	143.3	140.1	140.1
160°	193.1	184.0	175.6	165.9	157.5	149.2	143.3	138.8	136.2	136.2
162.5°	175.6	169.2	162.7	155.6	148.5	143.3	138.2	134.9	133.7	133.0
165°	161.4	157.5	152.4	147.2	142.7	138.2	134.9	133.0	131.7	131.7
167.5°	150.4	147.9	144.0	140.8	137.5	134.3	132.4	131.1	130.4	130.4
170°	142.1	140.1	137.5	135.6	133.7	131.7	130.4	129.8	129.1	129.1
172.5°	135.6	133.7	132.4	131.7	130.4	129.8	129.1	128.5	128.5	128.5
175°	131.1	129.8	129.8	129.1	128.5	128.5	127.8	127.8	127.8	128.5
177.5°	127.8	127.8	127.8	127.8	127.8	128.5	128.5	128.5	129.1	129.1
180°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8

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

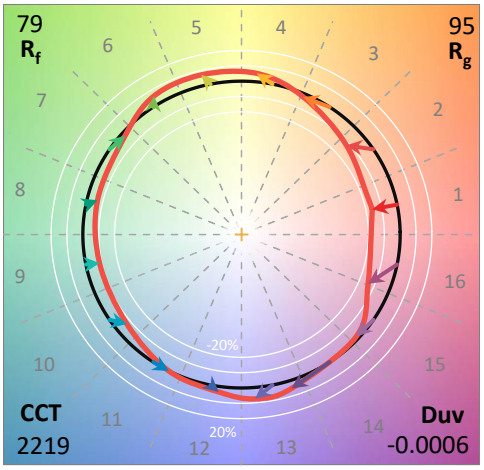
Test Information

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

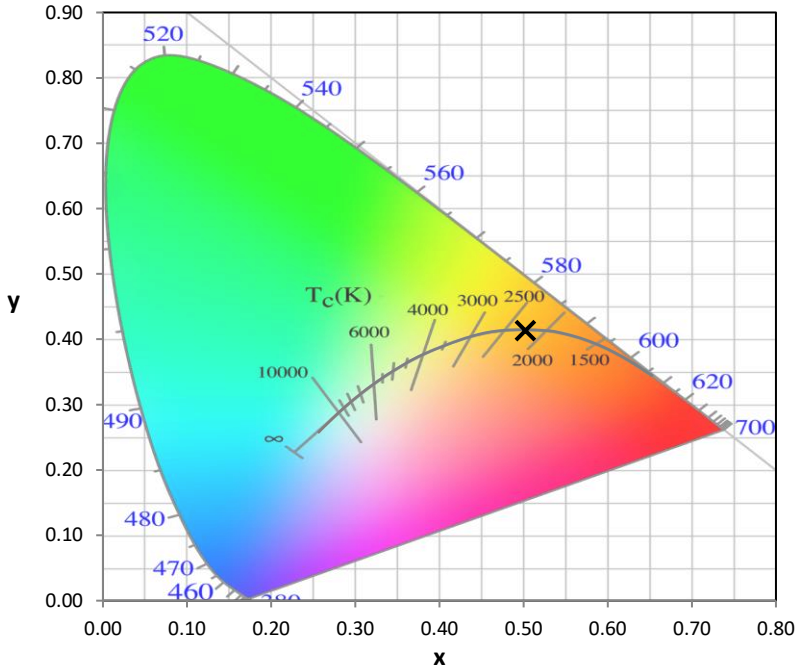
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

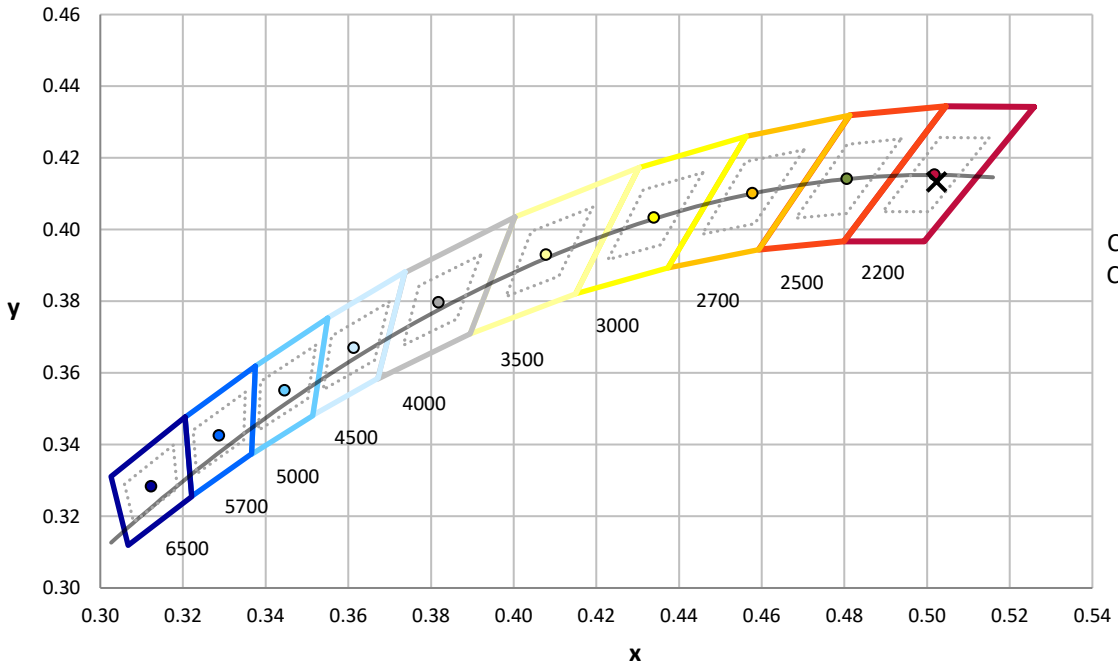
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

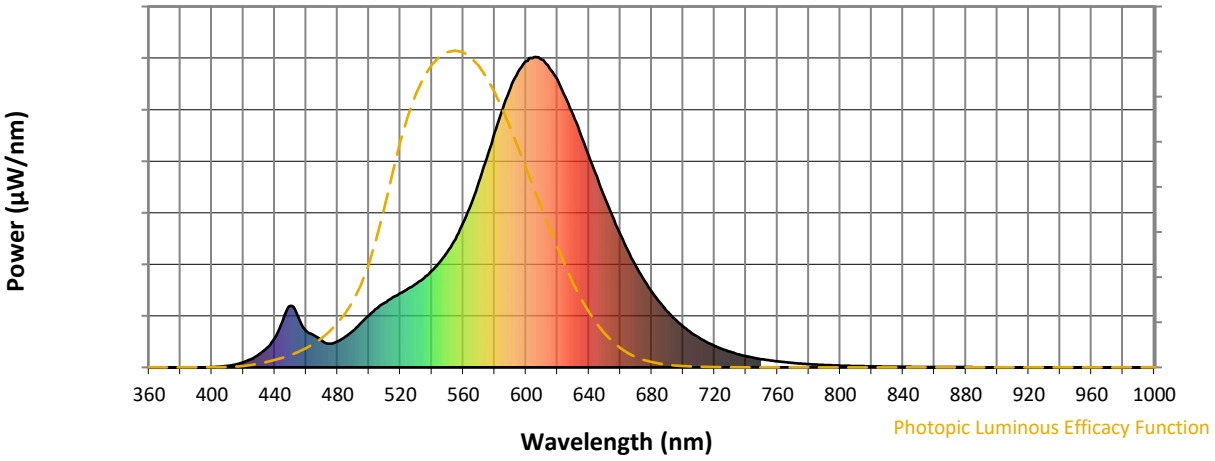


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

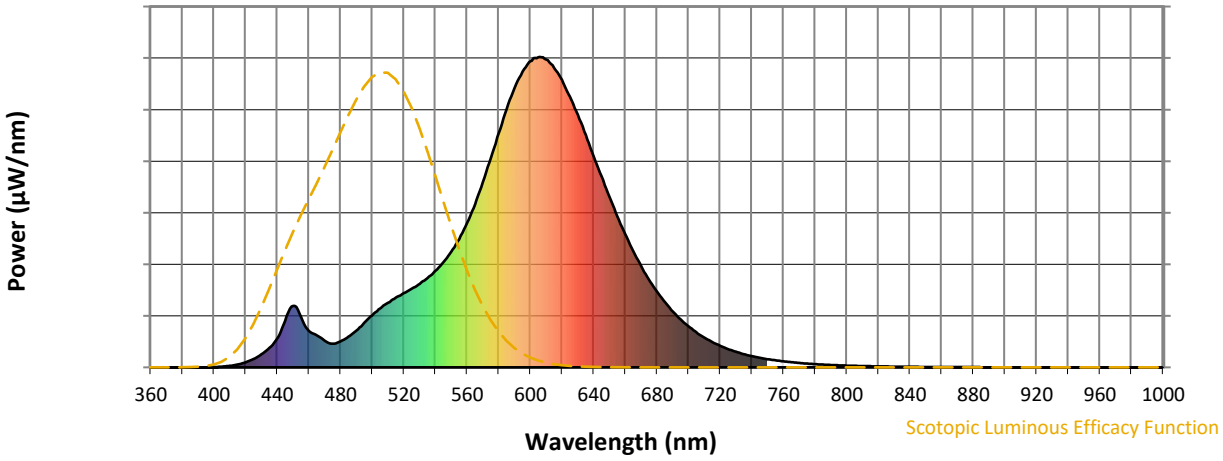


Photopic Lumens: NR

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

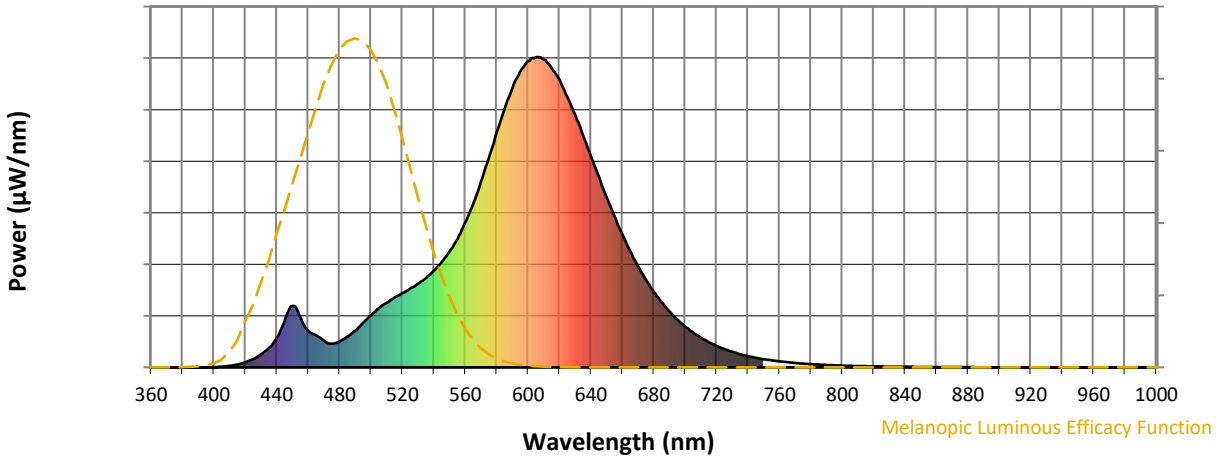


Scotopic Lumens: NR **S/P: 0.94**

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			

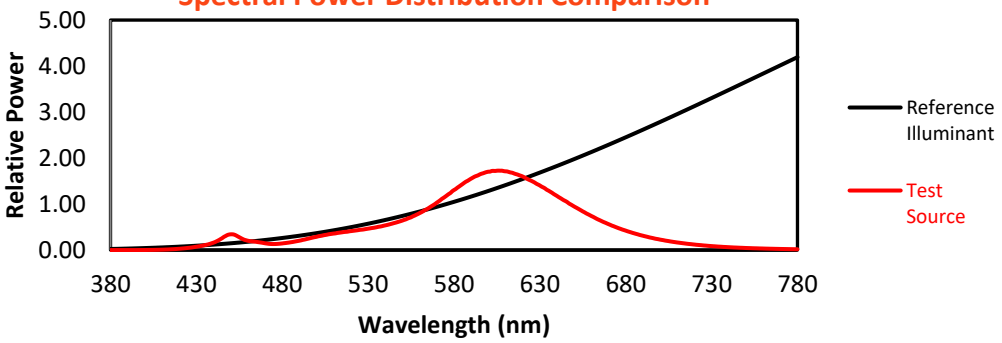
REPORT NUMBER: SP1-2501-332-2

TM-30-18

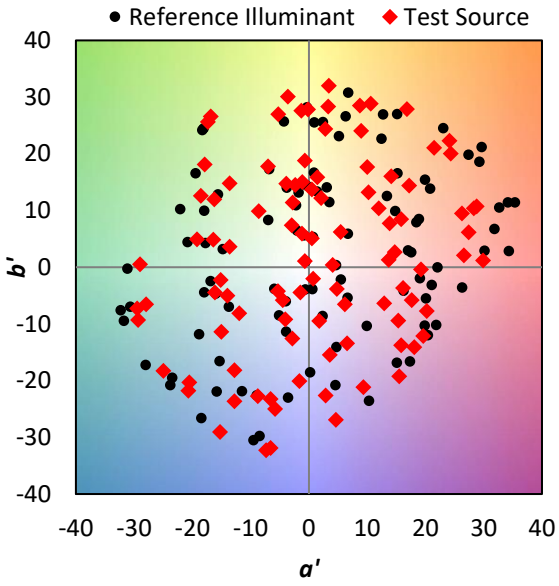
Summary

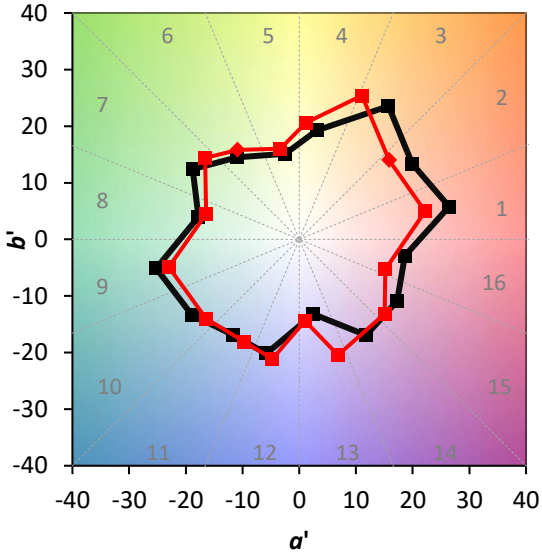
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

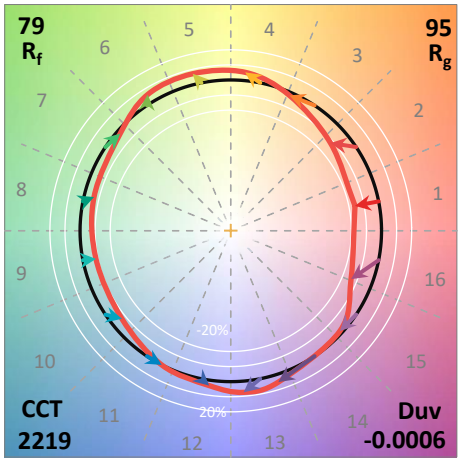
Spectral Power Distribution Comparison

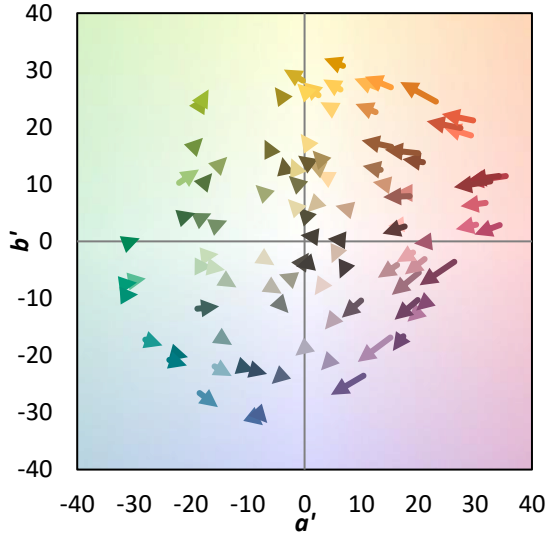


Color Vector Graphics







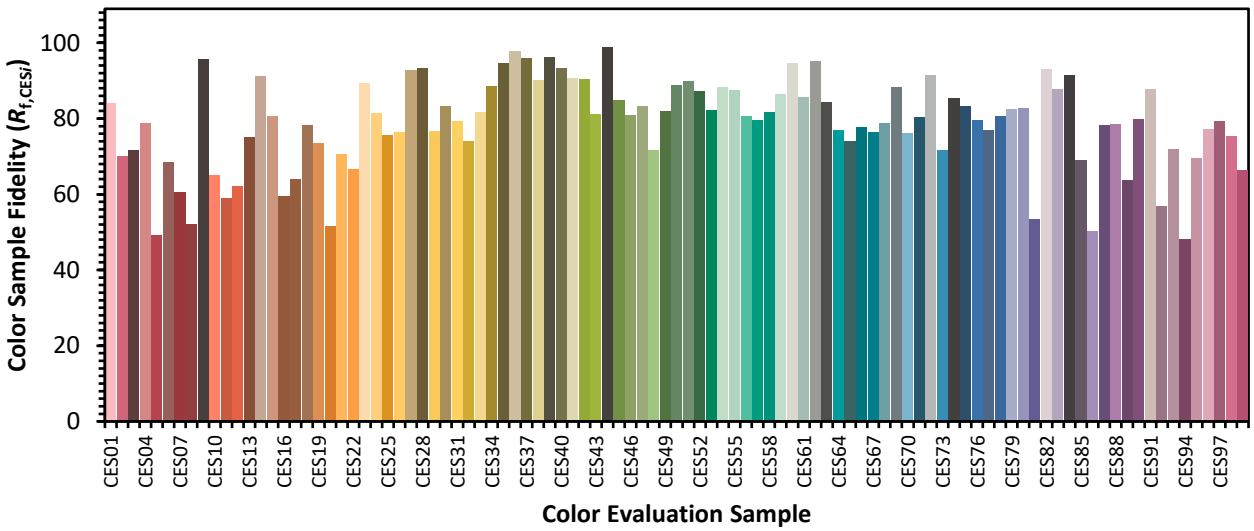


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

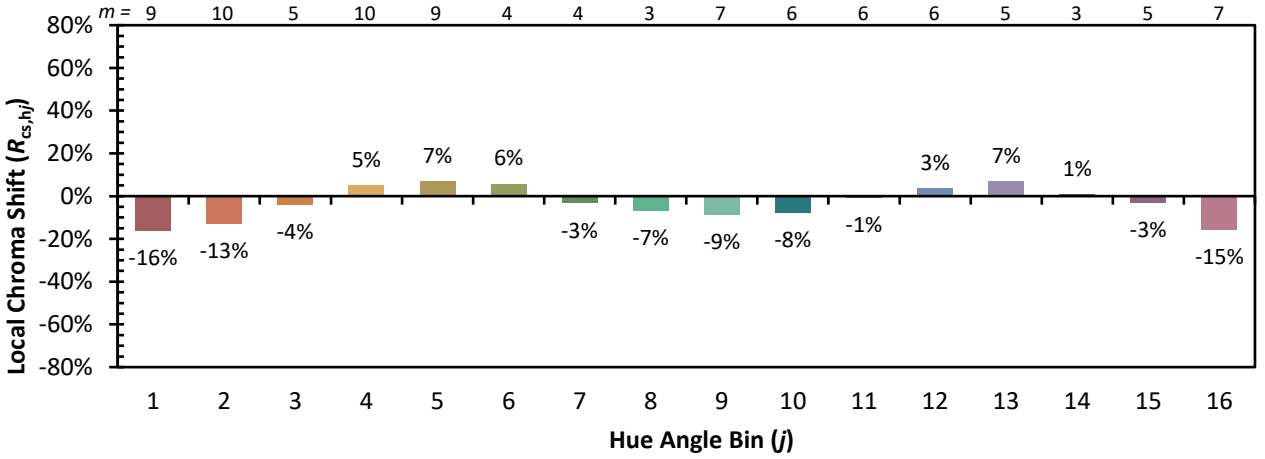
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 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	

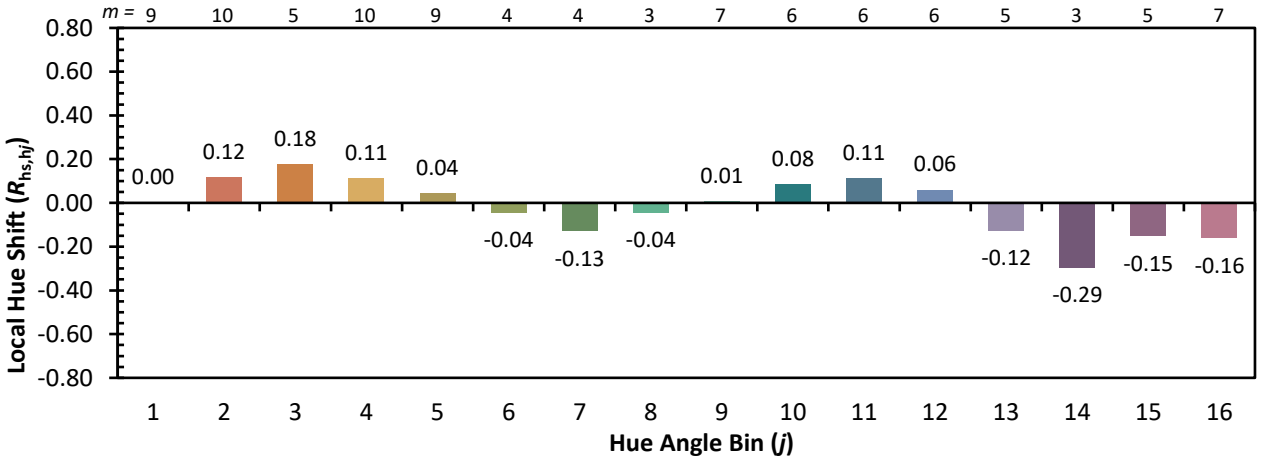


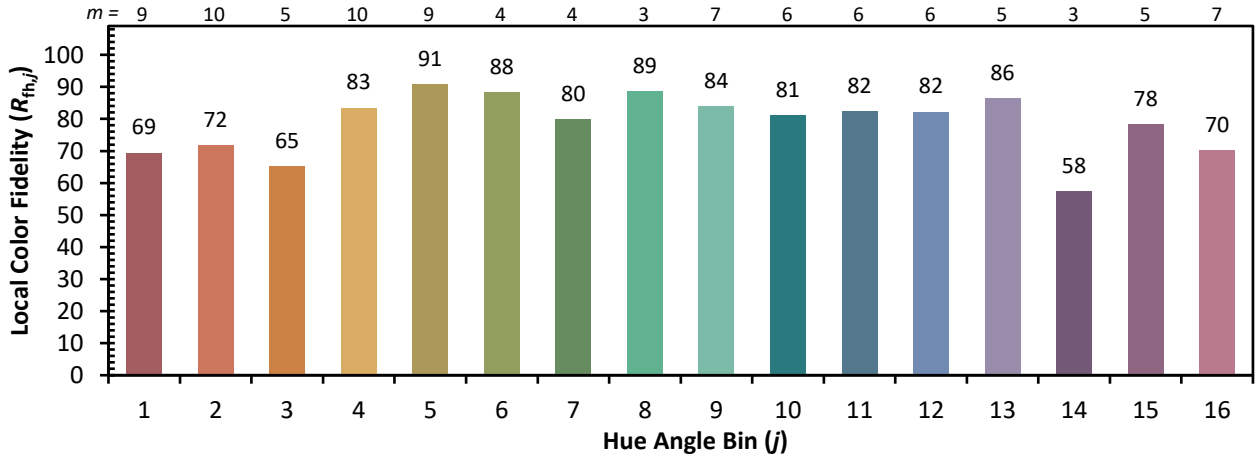
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Color Rendition by Hue-Angle Bin



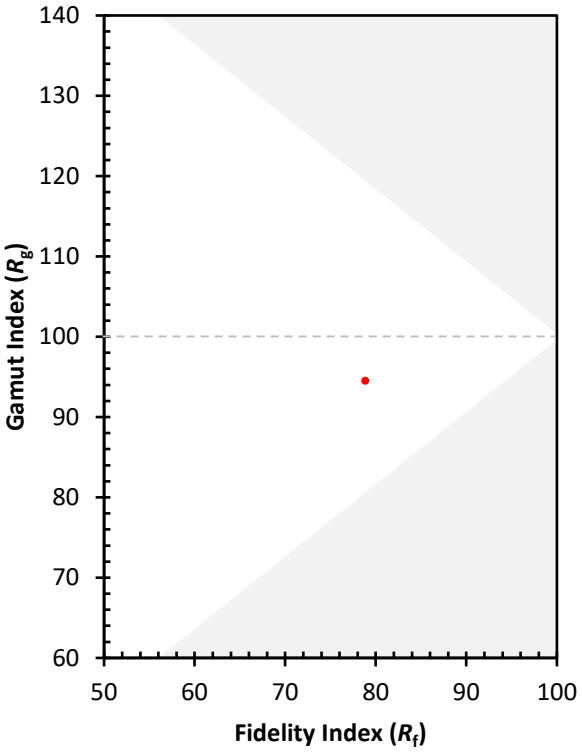


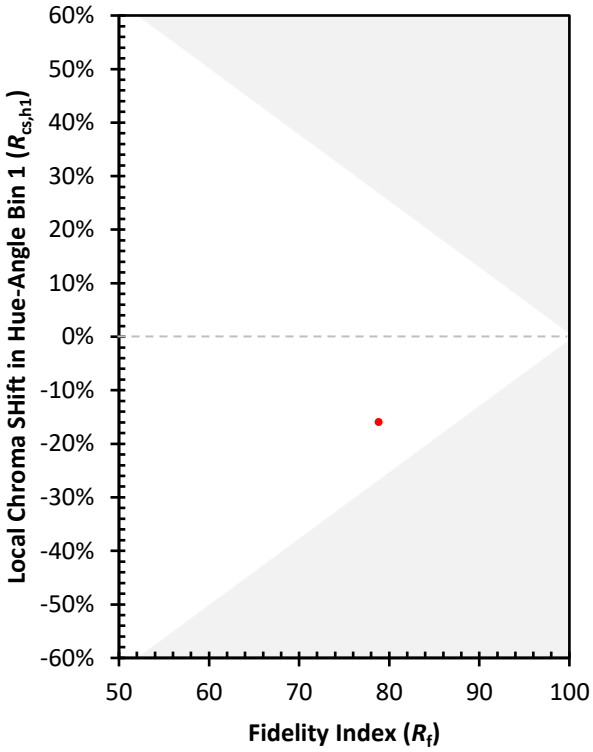


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Measure Comparisons





(END OF REPORT)