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: P1223979

Luminaire Tested: **FFX-CLB-80-727-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:	P1223979
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-727-U-VM8-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11443 lumens
Efficiency:	N/A
Efficacy:	139.9 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

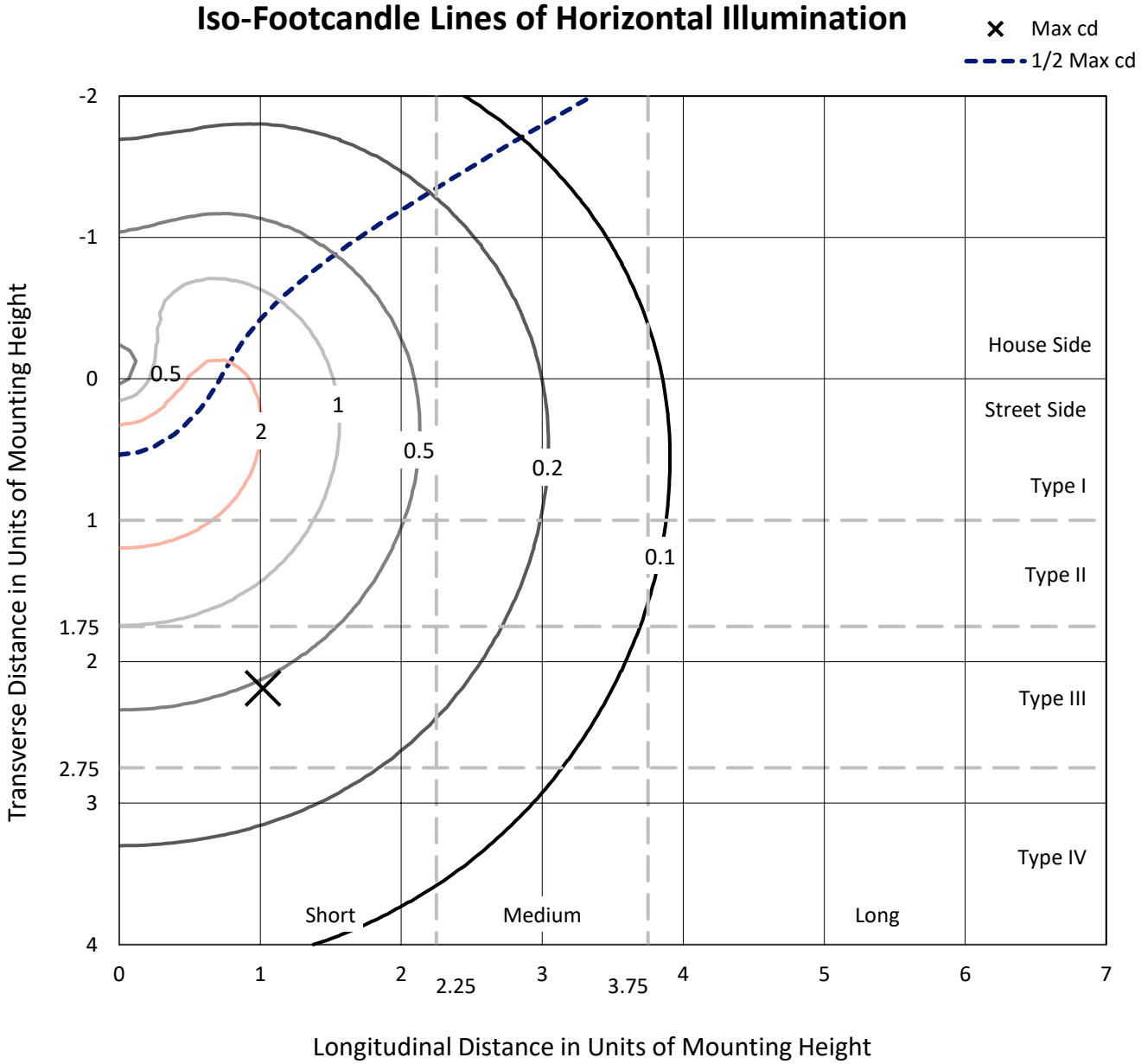


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223979
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4

Iso-Footcandle Lines of Horizontal Illumination



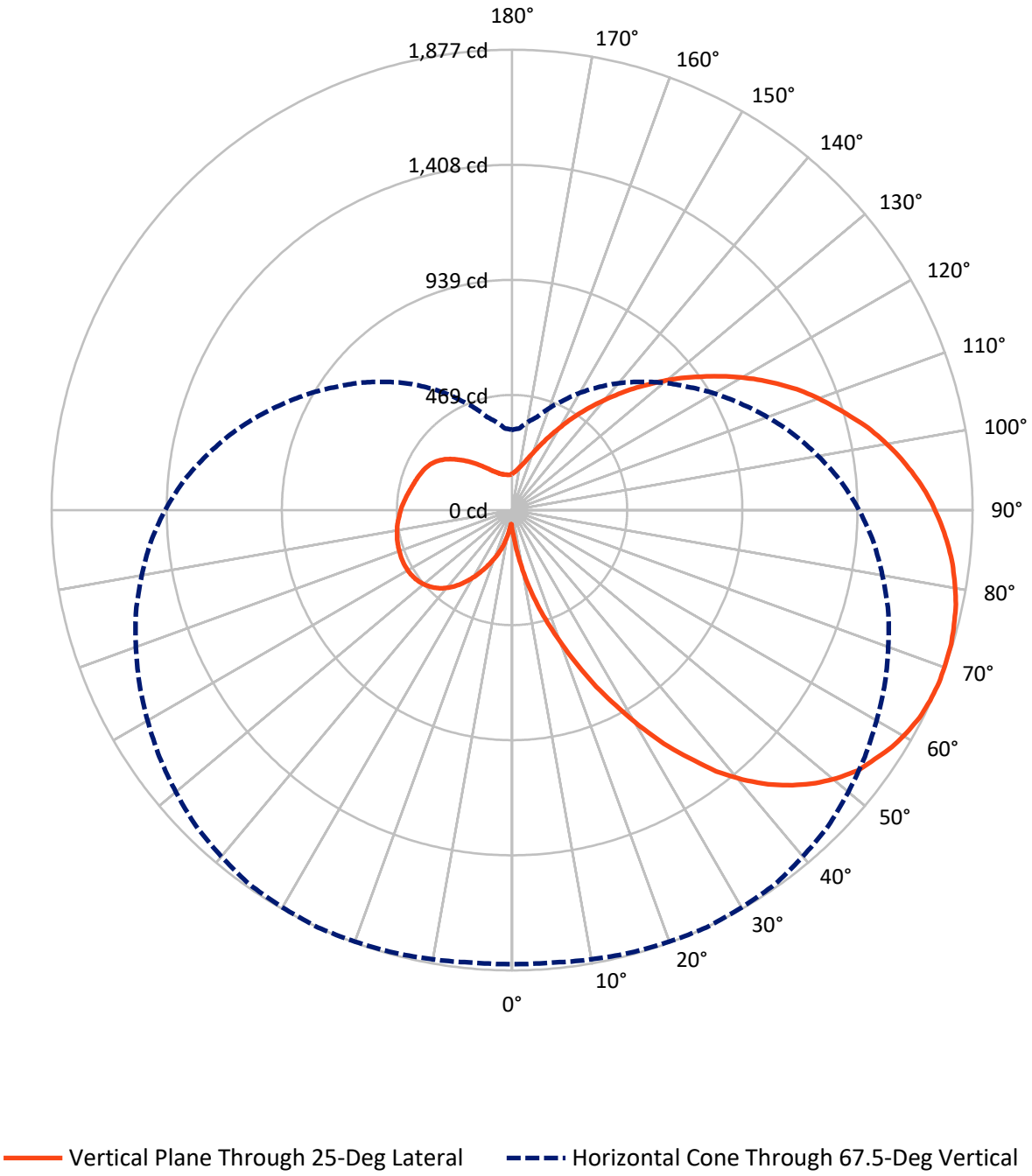
Based on 15 foot mounting height. Maximum calculated value = 3 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1223979
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4

Luminous Intensity Polar Plot



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

Scaled Data Report

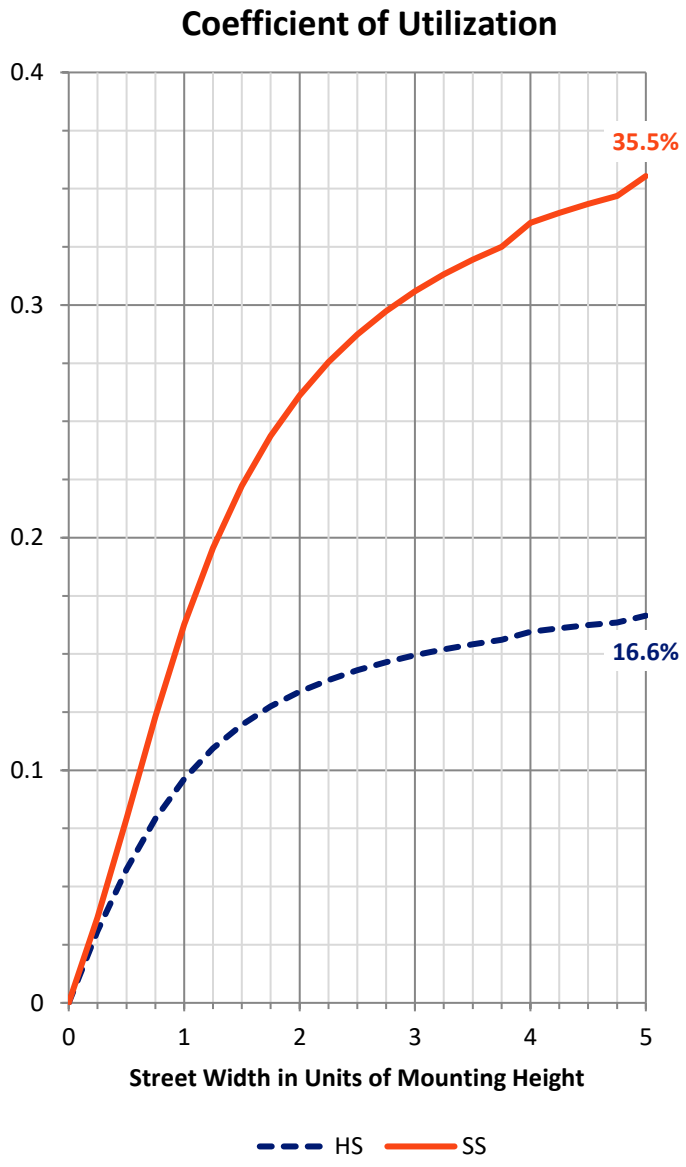
REPORT NUMBER: P1223979
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2095.6	1601.8	3697.5
	% Fixture	18.3	14.0	32.3
Street Side	Lumens	4630.5	3114.9	7745.5
	% Fixture	40.5	27.2	67.7
Total	Lumens	6726.2	4716.8	11443.0
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.1
10°-20°	87.1	0.8
20°-30°	260.7	2.3
30°-40°	536.5	4.7
40°-50°	837.6	7.3
50°-60°	1084.9	9.5
60°-70°	1250.9	10.9
70°-80°	1331.0	11.6
80°-90°	1325.2	11.6
90°-100°	1236.3	10.8
100°-110°	1080.6	9.4
110°-120°	884.9	7.7
120°-130°	658.1	5.8
130°-140°	428.1	3.7
140°-150°	242.5	2.1
150°-160°	119.5	1.0
160°-170°	52.2	0.5
170°-180°	14.7	0.1
0°-90°	6726.2	58.8
0°-180°	11443.0	100.0



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

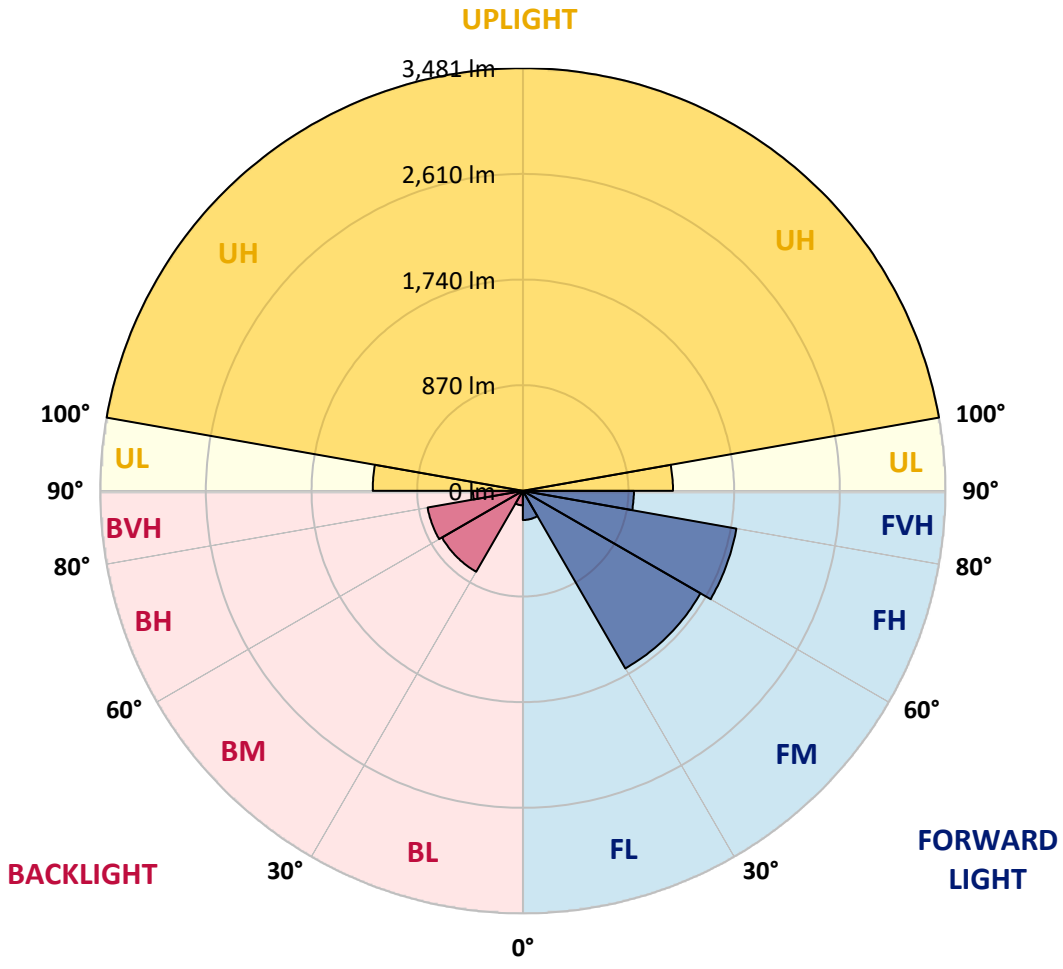
Scaled Data Report

REPORT NUMBER: P1223979
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	240.4	2.1			
FM	(30°-60°)	1689.5	14.8			
FH	(60°-80°)	1785.9	15.6			G1/1800
FVH	(80°-90°)	914.7	8.0			G5
BL	(0°-30°)	119.8	1.0	B1/500		
BM	(30°-60°)	769.4	6.7	B1/1000		
BH	(60°-80°)	796.0	7.0	B2/1000		G2/1000
BVH	(80°-90°)	410.5	3.6			G3/500
UL	(90°-100°)	1236.3	10.8		U5	
UH	(100°-180°)	3480.5	30.4		U5	

BUG Rating: B2-U5-G5
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1223979
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2.5°	98.8	98.8	99.5	99.5	98.1	98.8	97.3	95.2	93.7	90.1	88.6
5°	143.8	141.6	142.4	140.9	138.0	136.6	130.8	126.4	119.1	111.1	107.5
7.5°	199.8	200.5	197.6	193.9	193.2	185.2	183.8	170.0	164.2	150.4	146.7
10°	268.8	267.3	264.4	263.7	257.1	249.2	236.8	229.5	210.7	200.5	192.5
12.5°	344.3	345.0	340.0	334.9	329.1	318.2	301.5	289.8	274.6	253.5	243.3
15°	425.7	422.8	422.8	417.0	408.2	395.9	382.8	366.1	344.3	321.8	307.3
17.5°	501.2	507.0	504.8	497.6	489.6	474.3	460.5	437.3	413.3	388.6	370.5
20°	595.6	597.1	593.5	586.9	579.7	562.2	545.5	522.3	492.5	454.0	438.7
22.5°	690.8	693.7	693.7	690.1	679.9	664.7	637.8	612.4	575.3	536.8	511.4
25°	800.5	798.3	800.5	798.3	781.6	767.8	740.2	709.7	669.7	622.5	592.0
27.5°	910.9	913.8	908.0	902.9	896.4	874.6	844.8	806.3	756.2	706.8	674.1
30°	1018.4	1024.9	1024.9	1019.1	1009.0	987.2	953.8	912.4	857.1	794.7	756.2
32.5°	1131.0	1133.2	1136.1	1135.4	1123.7	1102.7	1065.6	1009.7	947.9	878.9	841.2
35°	1250.1	1243.6	1245.0	1240.7	1235.6	1209.4	1166.6	1112.8	1046.0	969.0	923.2
37.5°	1348.9	1346.0	1348.2	1351.8	1338.0	1311.1	1261.7	1199.3	1125.9	1045.3	999.5
40°	1442.6	1440.4	1444.1	1444.8	1431.0	1399.8	1347.5	1287.2	1208.0	1115.0	1072.2
42.5°	1521.1	1521.1	1524.7	1529.1	1514.5	1481.1	1428.1	1356.2	1274.8	1181.1	1128.8
45°	1593.7	1591.5	1598.8	1601.0	1586.4	1553.0	1493.5	1420.8	1333.7	1238.5	1184.0
47.5°	1651.8	1652.6	1659.8	1664.2	1651.1	1613.3	1553.0	1476.0	1385.2	1285.7	1229.8
50°	1699.8	1706.3	1712.8	1717.9	1704.1	1666.4	1603.9	1520.3	1429.5	1329.3	1271.2
52.5°	1747.7	1747.7	1757.9	1764.4	1749.2	1709.9	1644.6	1563.2	1470.2	1364.2	1307.5
55°	1778.2	1778.9	1791.3	1793.5	1784.0	1743.4	1676.5	1595.2	1502.2	1395.4	1335.1
57.5°	1805.1	1805.8	1819.6	1824.7	1811.6	1772.4	1704.1	1619.9	1529.1	1420.1	1359.1
60°	1828.3	1827.6	1839.2	1846.5	1833.4	1792.0	1725.2	1643.1	1550.1	1442.6	1379.4
62.5°	1842.9	1842.9	1856.7	1863.9	1850.1	1809.5	1741.2	1659.8	1566.8	1457.9	1395.4
65°	1849.4	1850.9	1863.9	1872.6	1859.6	1818.2	1749.9	1670.0	1578.5	1470.2	1407.0
67.5°	1851.6	1852.3	1868.3	1877.0	1864.7	1822.5	1755.0	1676.5	1587.2	1478.2	1414.3
70°	1853.0	1853.8	1866.1	1874.8	1863.9	1821.8	1756.4	1679.4	1592.3	1482.6	1418.7
72.5°	1845.0	1847.2	1861.0	1871.2	1858.1	1816.7	1752.8	1679.4	1591.5	1485.5	1420.1
75°	1834.9	1840.0	1852.3	1861.0	1849.4	1809.5	1747.0	1676.5	1590.8	1484.0	1420.1
77.5°	1824.7	1825.4	1841.4	1849.4	1837.1	1796.4	1736.8	1669.3	1586.4	1479.7	1415.0
80°	1804.4	1808.7	1822.5	1829.8	1818.9	1780.4	1722.3	1659.1	1578.5	1472.4	1407.0
82.5°	1789.8	1788.4	1802.2	1808.7	1797.8	1757.9	1705.6	1643.1	1566.8	1460.1	1396.1
85°	1762.2	1765.1	1776.0	1781.8	1769.5	1733.2	1683.1	1627.1	1550.9	1446.3	1381.6
87.5°	1736.1	1737.5	1744.8	1751.3	1739.0	1704.1	1657.6	1604.6	1531.2	1428.8	1365.6
90°	1703.4	1704.1	1712.1	1717.2	1706.3	1673.6	1630.8	1579.2	1510.2	1409.2	1346.0
92.5°	1672.9	1671.4	1677.2	1679.4	1670.0	1638.0	1599.5	1551.6	1484.8	1385.2	1324.2
95°	1632.9	1632.2	1637.3	1635.8	1625.7	1598.1	1563.2	1521.1	1455.0	1359.8	1299.5
97.5°	1588.6	1589.4	1592.3	1590.8	1579.9	1554.5	1527.6	1485.5	1424.5	1330.0	1271.9
100°	1539.2	1541.4	1545.8	1541.4	1532.0	1513.1	1484.8	1449.9	1389.6	1300.2	1242.9
102.5°	1497.8	1492.0	1490.6	1489.8	1480.4	1463.7	1441.9	1411.4	1355.5	1267.6	1212.4
105°	1443.3	1439.7	1439.0	1431.0	1427.4	1413.6	1395.4	1367.8	1317.7	1234.9	1181.1
107.5°	1386.0	1386.7	1383.8	1374.3	1369.3	1359.8	1349.6	1324.9	1277.0	1198.6	1149.2
110°	1334.4	1330.8	1322.8	1318.4	1314.8	1306.8	1300.2	1281.4	1237.1	1163.7	1114.3

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

Scaled Data Report

REPORT NUMBER: P1223979
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1270.5	1272.6	1263.2	*1260.3*	1254.5	1253.8	1249.4	1234.1	1194.9	1126.6	1080.2
115°	1213.1	1211.6	1202.2	*1196.4*	1194.2	1195.6	1198.6	1187.7	1151.3	1086.7	1043.8
117.5°	1149.9	1145.5	1139.0	*1133.2*	1130.3	1136.1	1142.6	1137.5	1107.0	1046.0	1005.3
120°	1082.3	1083.1	1073.6	*1067.8*	1068.5	1078.0	1086.7	1083.8	1054.7	1000.2	963.9
122.5°	1019.1	1015.5	1007.5	*1001.7*	1006.8	1017.0	1027.1	1026.4	1001.0	947.9	915.3
125°	950.1	949.4	941.4	*935.6*	940.0	951.6	963.9	965.4	941.4	897.1	864.4
127.5°	884.8	882.6	881.1	*874.6*	877.5	893.5	902.2	901.5	880.4	839.7	811.4
130°	822.3	821.6	812.8	*809.9*	813.6	826.6	835.4	833.9	817.2	781.6	756.2
132.5°	759.1	756.2	752.5	*748.2*	751.1	762.0	773.6	772.2	752.5	718.4	698.1
135°	696.6	694.4	691.5	*688.6*	690.8	701.7	711.9	709.0	692.3	661.7	641.4
137.5°	639.2	637.0	633.4	*629.8*	632.7	641.4	647.9	645.8	632.0	602.9	583.3
140°	579.7	581.1	576.8	*573.9*	575.3	584.0	589.1	586.2	570.9	547.0	531.0
142.5°	525.2	525.2	523.0	*522.3*	524.5	528.8	533.2	527.4	517.2	492.5	479.4
145°	472.9	473.6	472.9	*471.4*	472.2	477.2	478.0	475.8	464.2	446.0	431.5
147.5°	423.5	425.7	424.2	*424.2*	424.9	427.1	430.0	424.9	414.8	398.8	388.6
150°	377.7	379.2	379.2	*377.7*	377.7	380.6	380.6	377.0	369.0	355.9	346.5
152.5°	337.8	338.5	338.5	*337.0*	337.8	338.5	337.0	332.7	326.2	316.0	308.7
155°	301.5	302.9	300.7	*301.5*	299.3	300.0	299.3	296.4	289.1	280.4	276.0
157.5°	268.8	270.9	269.5	*269.5*	268.0	267.3	266.6	263.7	258.6	251.3	246.2
160°	242.6	244.1	241.9	*241.9*	240.4	240.4	237.5	236.1	231.0	224.5	221.6
162.5°	220.1	220.1	219.4	*220.1*	219.4	217.2	215.7	212.8	208.5	203.4	201.2
165°	201.9	201.2	201.2	*200.5*	199.8	198.3	196.1	194.7	190.3	186.0	184.5
167.5°	188.1	187.4	186.7	*186.0*	184.5	183.8	181.6	180.1	176.5	172.9	171.4
170°	176.5	176.5	175.1	*174.3*	173.6	172.2	170.0	167.8	164.9	162.7	161.3
172.5°	166.3	166.3	165.6	*164.9*	164.2	162.7	160.5	159.1	156.9	154.7	153.3
175°	159.1	159.1	158.4	*156.9*	156.2	154.7	153.3	151.8	149.6	148.2	147.5
177.5°	153.3	153.3	153.3	*151.8*	151.1	149.6	148.2	146.7	146.0	144.6	144.6
180°	146.0	146.0	146.0	*146.0*	146.0	146.0	146.0	146.0	146.0	146.0	146.0

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

Scaled Data Report

REPORT NUMBER: P1223979
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2.5°	86.4	82.1	78.5	72.6	67.6	63.2	60.3	58.1	56.7	55.2
5°	103.1	95.2	87.2	78.5	70.5	63.2	57.4	53.0	50.8	50.8
7.5°	140.9	128.6	114.8	102.4	93.0	83.5	74.8	69.7	66.8	65.4
10°	184.5	166.3	152.5	137.3	120.6	109.0	98.8	92.3	88.6	89.3
12.5°	236.8	214.3	196.9	174.3	156.2	138.0	127.1	117.7	113.3	112.6
15°	294.9	268.8	243.3	216.5	192.5	171.4	155.4	143.1	135.8	135.1
17.5°	355.9	323.2	289.1	258.6	227.4	201.2	179.4	164.9	156.9	156.9
20°	417.7	380.6	340.7	300.7	263.0	231.0	205.6	186.7	176.5	175.1
22.5°	488.9	441.6	393.7	345.0	302.2	262.2	229.5	207.0	196.1	193.9
25°	566.6	510.7	453.3	395.9	342.9	294.9	257.1	231.7	216.5	214.3
27.5°	647.2	579.7	512.1	445.3	383.5	330.5	284.7	252.1	236.8	234.6
30°	726.4	652.3	573.9	495.4	425.7	364.7	312.4	274.6	255.7	252.8
32.5°	804.1	719.9	633.4	546.2	470.0	398.8	337.8	297.1	273.9	270.9
35°	878.2	791.0	690.1	596.4	509.2	432.9	364.7	317.4	291.3	288.4
37.5°	950.9	852.1	746.0	642.9	548.4	462.0	389.3	336.3	307.3	304.4
40°	1019.9	910.2	794.7	685.7	582.6	491.0	410.4	353.0	320.3	316.7
42.5°	1072.9	960.3	839.7	722.0	612.4	512.8	429.3	366.1	330.5	325.4
45°	1125.9	1005.3	878.2	754.0	638.5	533.9	444.6	377.7	340.0	334.1
47.5°	1169.5	1043.8	909.4	780.1	660.3	552.1	457.6	385.7	345.8	340.0
50°	1210.9	1078.0	938.5	804.1	679.9	568.0	468.5	392.3	349.4	343.6
52.5°	1242.9	1106.3	961.7	823.0	695.9	579.7	477.2	396.6	351.6	345.0
55°	1269.7	1129.5	980.6	837.5	708.2	589.8	483.8	398.8	351.6	345.0
57.5°	1292.3	1147.7	995.9	850.6	717.7	596.4	488.1	399.5	349.4	342.9
60°	1311.9	1164.4	1008.2	860.8	726.4	602.9	491.0	399.5	347.2	340.0
62.5°	1327.9	1176.0	1017.7	868.8	732.9	608.0	492.5	398.1	342.9	335.6
65°	1337.3	1184.0	1023.5	873.1	736.6	609.4	492.5	395.9	338.5	331.2
67.5°	*1345.3*	*1189.1*	*1027.1*	*875.3*	*738.7*	*610.9*	*491.8*	*392.3*	*334.1*	*326.9*
70°	1348.9	1191.3	1028.6	876.8	740.2	610.2	489.6	389.3	329.8	321.1
72.5°	1349.6	1192.0	1027.9	876.8	740.2	610.2	487.4	385.0	324.7	316.7
75°	1348.2	1189.8	1025.7	876.0	739.5	608.0	485.2	381.4	320.3	311.6
77.5°	1343.8	1185.5	1022.0	873.1	735.8	605.8	480.9	377.0	315.3	307.3
80°	1336.6	1178.2	1016.2	868.0	731.5	601.5	477.2	372.6	310.9	302.9
82.5°	1325.7	1168.8	1009.0	861.5	727.1	596.4	472.9	368.3	306.5	298.5
85°	1312.6	1157.1	998.1	853.5	720.6	590.6	467.1	363.2	302.2	294.2
87.5°	1294.4	1142.6	986.4	844.1	711.9	583.3	460.5	358.8	298.5	290.6
90°	1277.0	1126.6	974.1	833.9	703.9	576.8	454.7	353.8	295.6	287.7
92.5°	1256.7	1107.8	958.8	822.3	693.0	568.0	448.9	349.4	292.7	285.5
95°	1233.4	1087.4	942.9	808.5	682.8	559.3	441.6	345.0	289.8	283.3
97.5°	1207.3	1065.6	925.4	794.0	670.5	549.9	435.1	341.4	288.4	281.1
100°	1180.4	1040.9	906.5	779.4	658.1	539.7	428.6	337.8	287.7	281.1
102.5°	1149.9	1018.4	887.7	764.9	645.8	530.3	422.0	335.6	287.7	281.1
105°	1120.8	992.3	867.3	748.9	633.4	520.8	416.2	334.1	288.4	282.6
107.5°	1089.6	967.6	847.0	732.2	619.6	511.4	411.1	332.7	289.8	284.0
110°	1060.5	943.6	828.1	716.2	607.3	502.7	406.1	332.0	291.3	286.2

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

Scaled Data Report

REPORT NUMBER: P1223979
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1028.6	917.4	807.0	698.8	594.2	492.5	401.0	330.5	292.7	288.4
115°	995.2	889.8	786.0	681.4	578.9	483.1	395.9	329.8	294.2	289.8
117.5°	958.8	860.1	760.5	661.0	563.0	471.4	388.6	326.9	294.2	289.8
120°	919.6	828.8	732.9	639.2	544.8	457.6	381.4	323.2	292.7	289.1
122.5°	876.8	791.8	701.0	611.6	524.5	441.6	370.5	316.7	289.1	285.5
125°	829.5	750.4	668.3	581.8	499.0	423.5	357.4	309.4	283.3	280.4
127.5°	780.1	707.5	629.1	550.6	475.1	403.9	343.6	298.5	275.3	272.4
130°	724.9	659.6	588.4	515.7	446.7	381.4	326.9	286.2	265.1	262.2
132.5°	671.9	612.4	548.4	483.8	417.0	359.6	308.7	272.4	254.2	251.3
135°	616.7	564.4	507.0	446.0	389.3	335.6	290.6	258.6	241.9	239.7
137.5°	563.0	518.6	464.9	411.1	361.0	312.4	273.1	245.5	230.3	228.8
140°	512.8	471.4	426.4	379.2	332.7	290.6	256.4	231.0	218.6	216.5
142.5°	464.2	428.6	387.9	347.9	305.1	269.5	239.7	217.2	207.0	205.6
145°	418.4	388.6	353.0	316.7	280.4	249.2	223.7	204.8	196.1	195.4
147.5°	375.5	350.8	319.6	289.1	258.6	232.4	209.2	194.7	186.7	186.0
150°	336.3	313.8	289.1	263.0	237.5	214.3	196.9	183.8	177.2	176.5
152.5°	299.3	281.8	261.5	240.4	218.6	200.5	184.5	175.1	170.0	169.3
155°	267.3	253.5	236.8	218.6	201.9	187.4	175.1	167.8	163.4	163.4
157.5°	240.4	228.8	216.5	201.9	188.1	176.5	167.8	161.3	157.6	157.6
160°	217.2	207.0	197.6	186.7	177.2	167.8	161.3	156.2	153.3	153.3
162.5°	197.6	190.3	183.1	175.1	167.1	161.3	155.4	151.8	150.4	149.6
165°	181.6	177.2	171.4	165.6	160.5	155.4	151.8	149.6	148.2	148.2
167.5°	169.3	166.3	162.0	158.4	154.7	151.1	148.9	147.5	146.7	146.7
170°	159.8	157.6	154.7	152.5	150.4	148.2	146.7	146.0	145.3	145.3
172.5°	152.5	150.4	148.9	148.2	146.7	146.0	145.3	144.6	144.6	144.6
175°	147.5	146.0	146.0	145.3	144.6	144.6	143.8	143.8	143.8	144.6
177.5°	143.8	143.8	143.8	143.8	143.8	144.6	144.6	144.6	145.3	145.3
180°	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

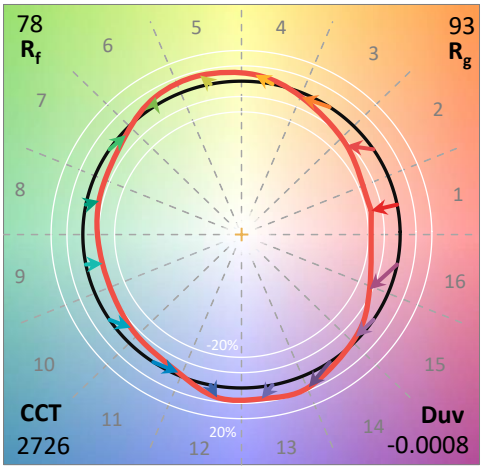
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

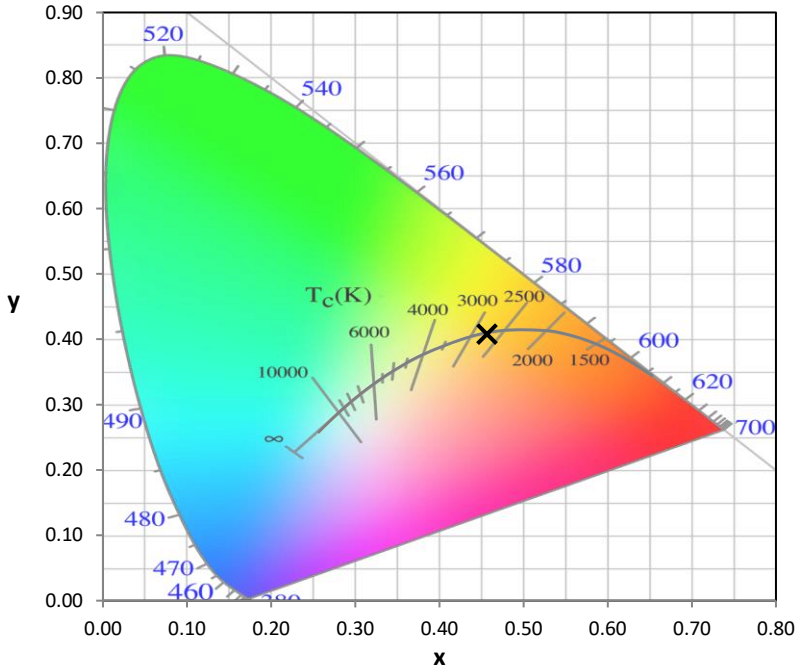
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

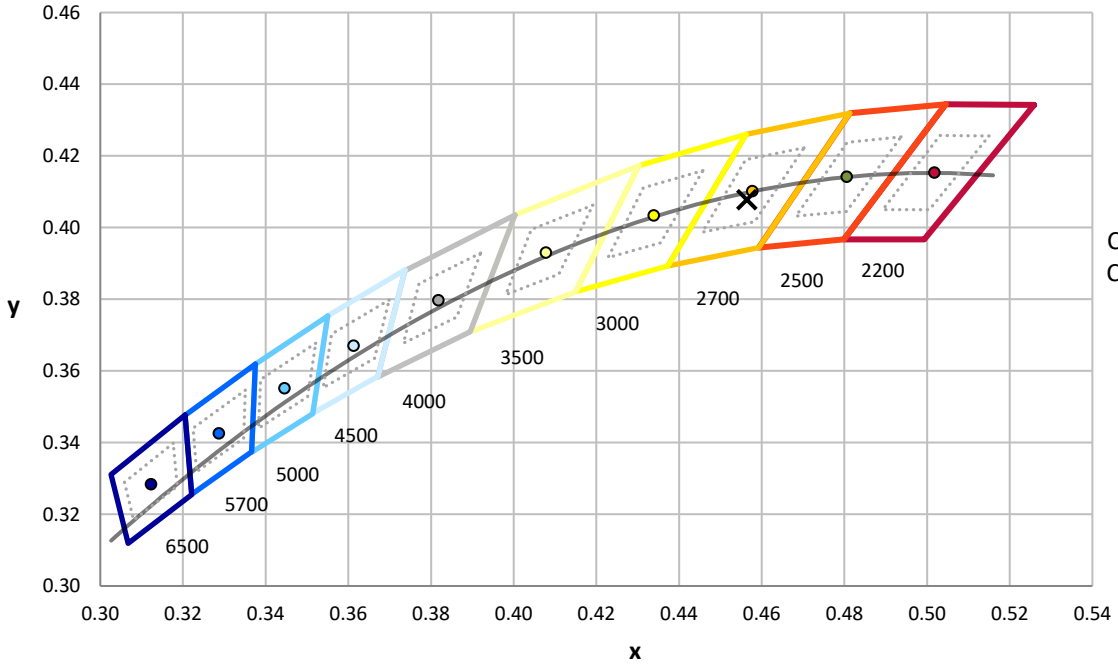
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

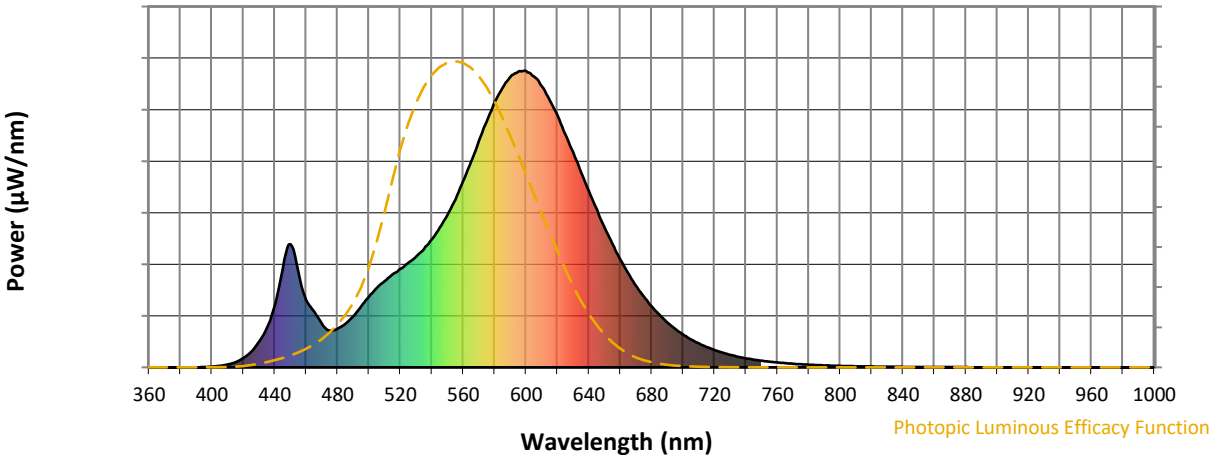


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

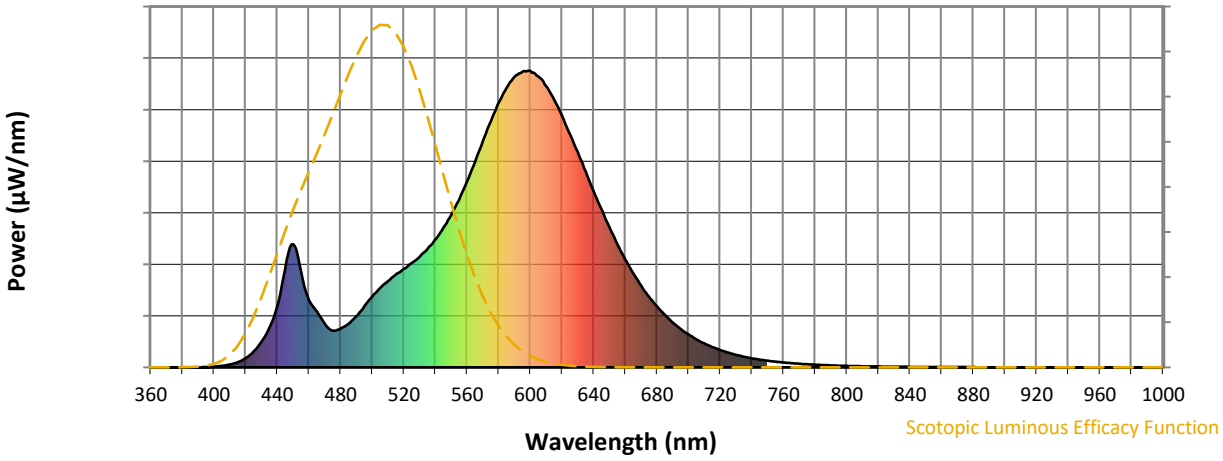


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

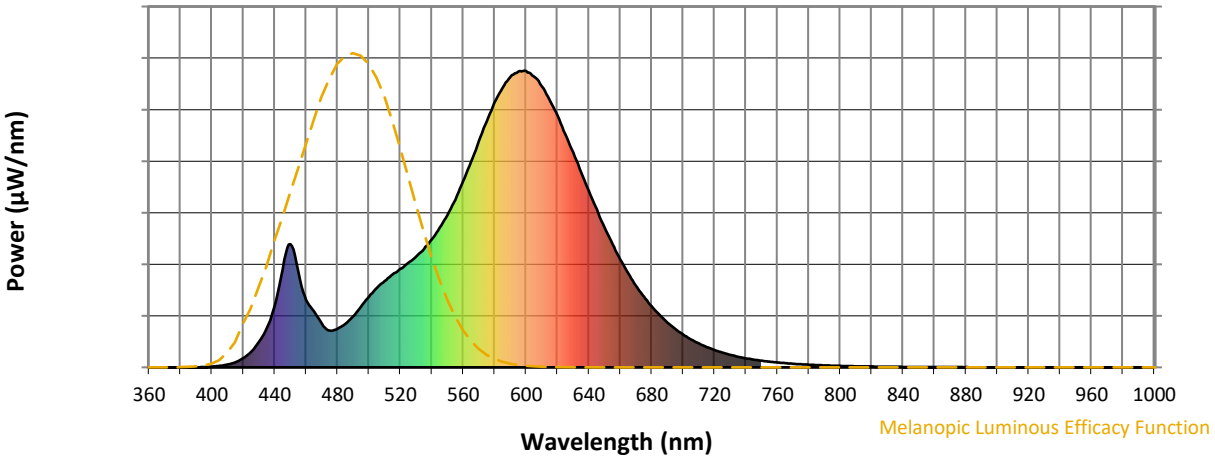


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

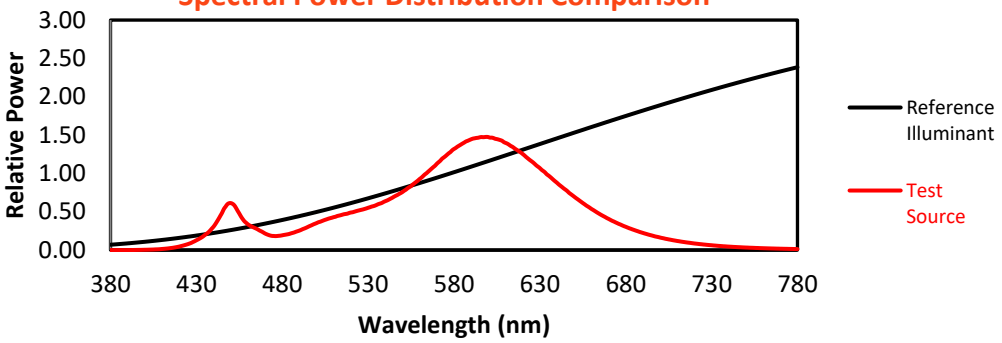
REPORT NUMBER: SP1-2501-332-3

TM-30-18

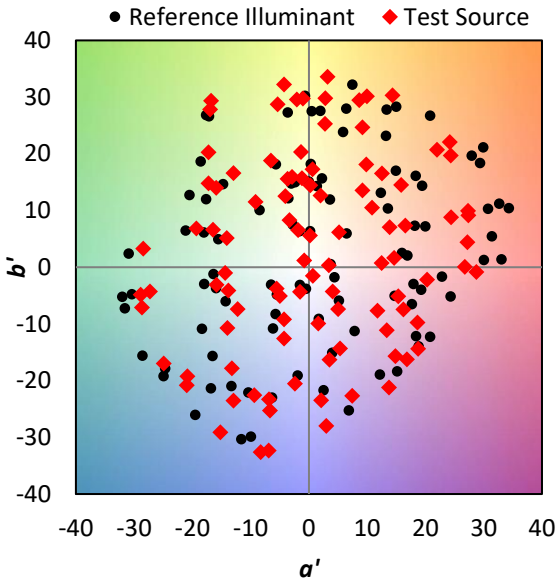
Summary

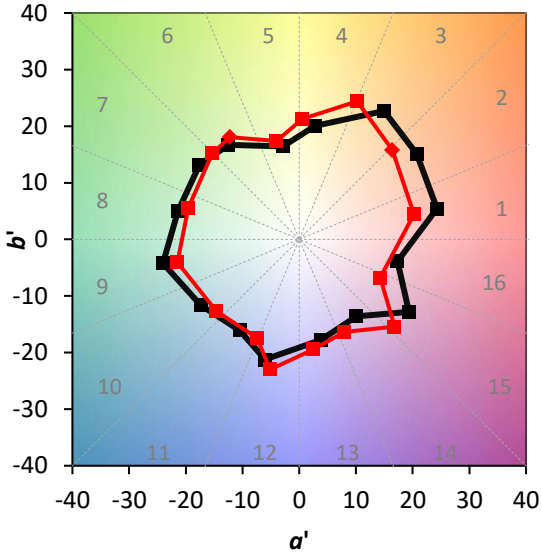
R_f = 77.8
R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

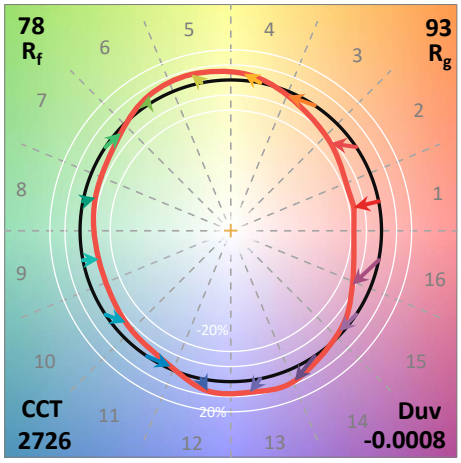
Spectral Power Distribution Comparison

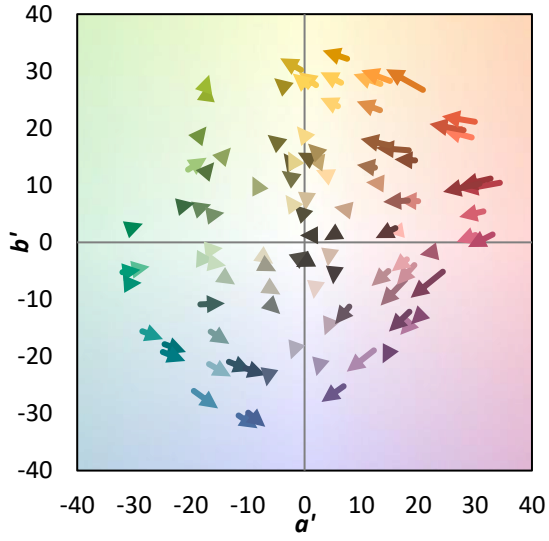


Color Vector Graphics







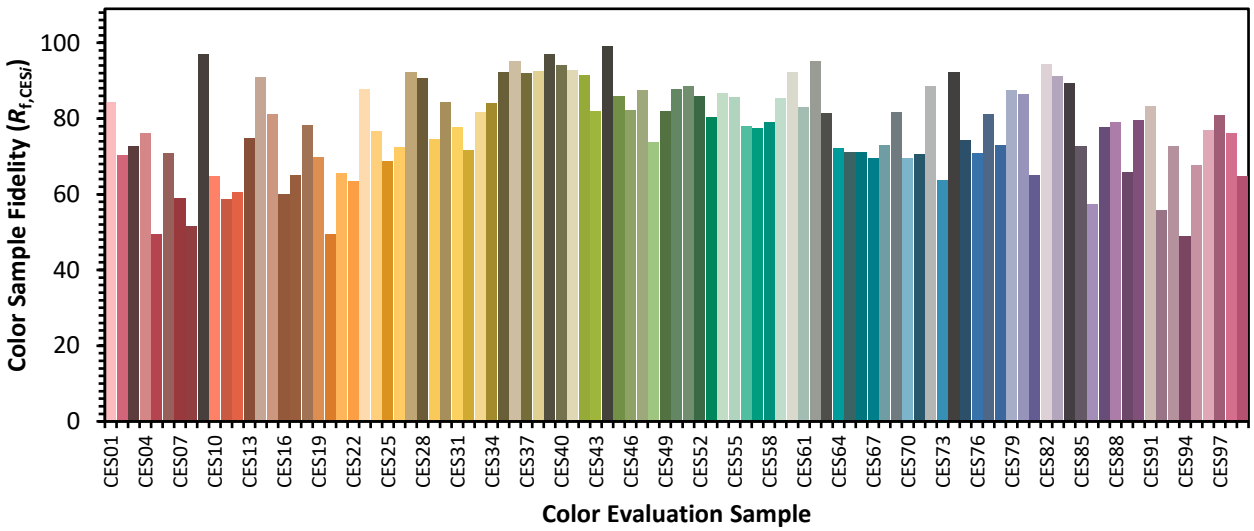


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

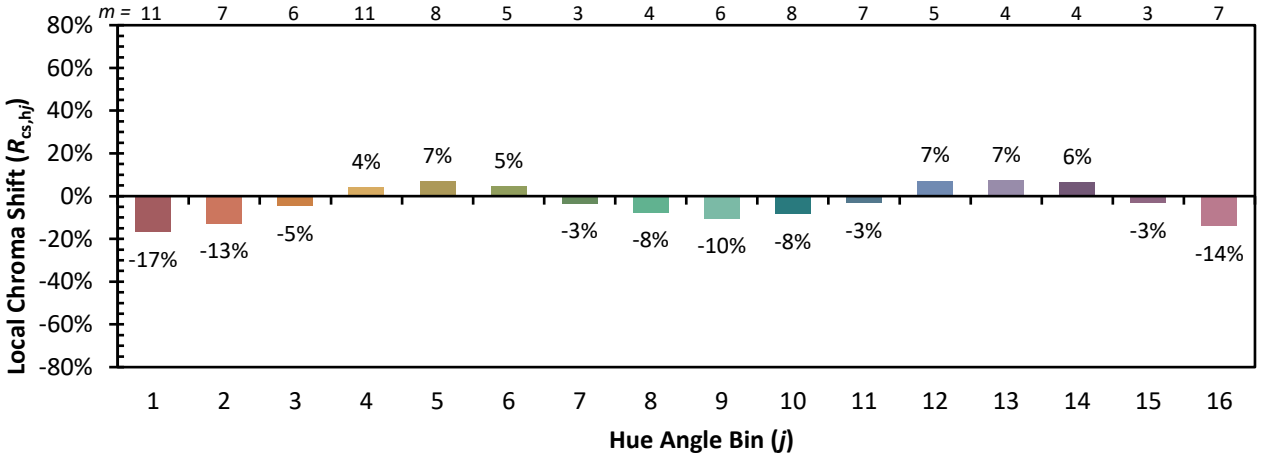
CES01 = 86	CES26 = 72	CES51 = 88	CES76 = 71
CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

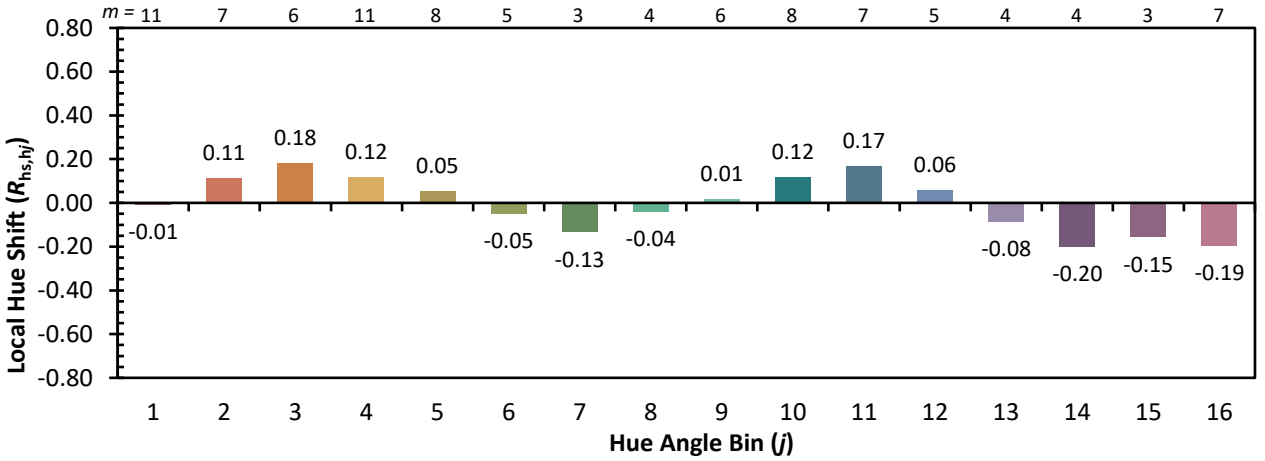


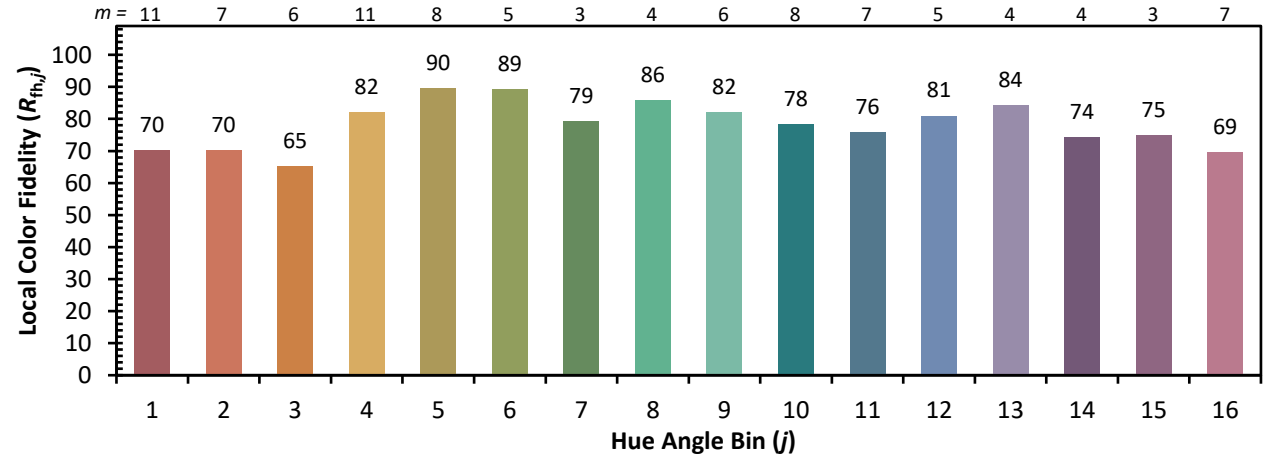
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



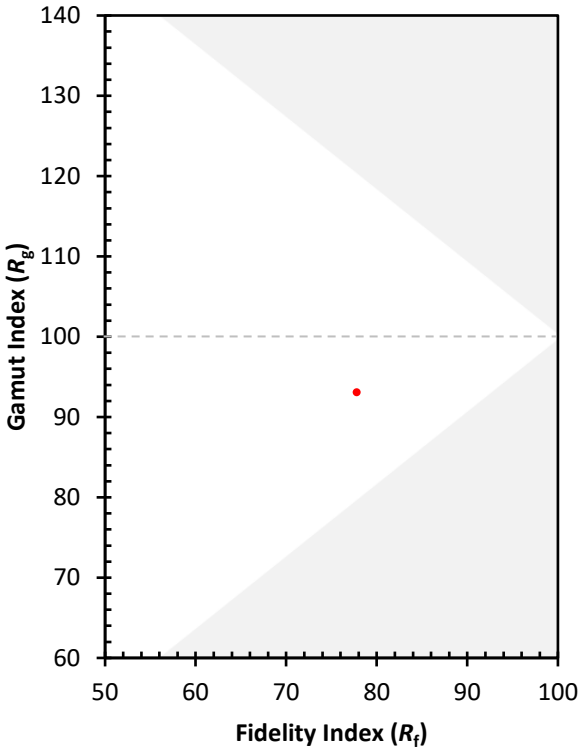


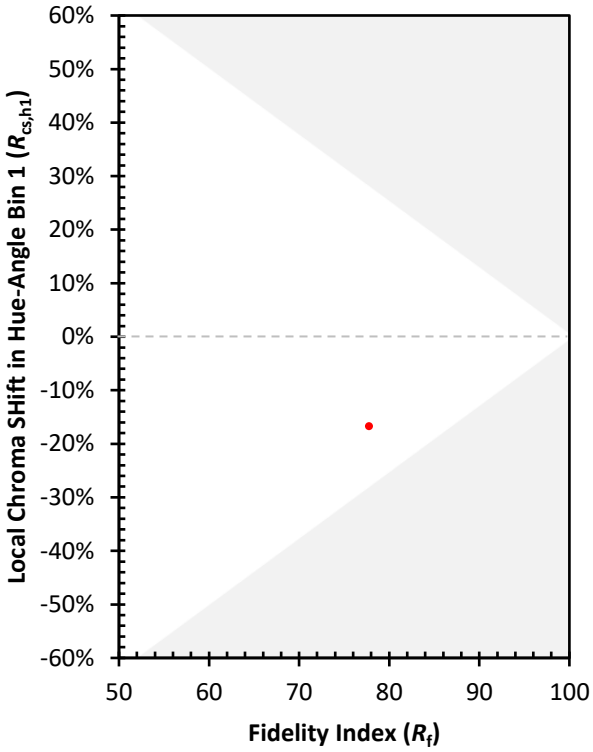


REPORT NUMBER: SP1-2501-332-3

TM-30-18

Measure Comparisons





(END OF REPORT)