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: P1223898

Luminaire Tested: **FFX-CLB-80-730-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:	P1223898
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-730-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12078.9 lumens
Efficiency:	N/A
Efficacy:	147.7 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

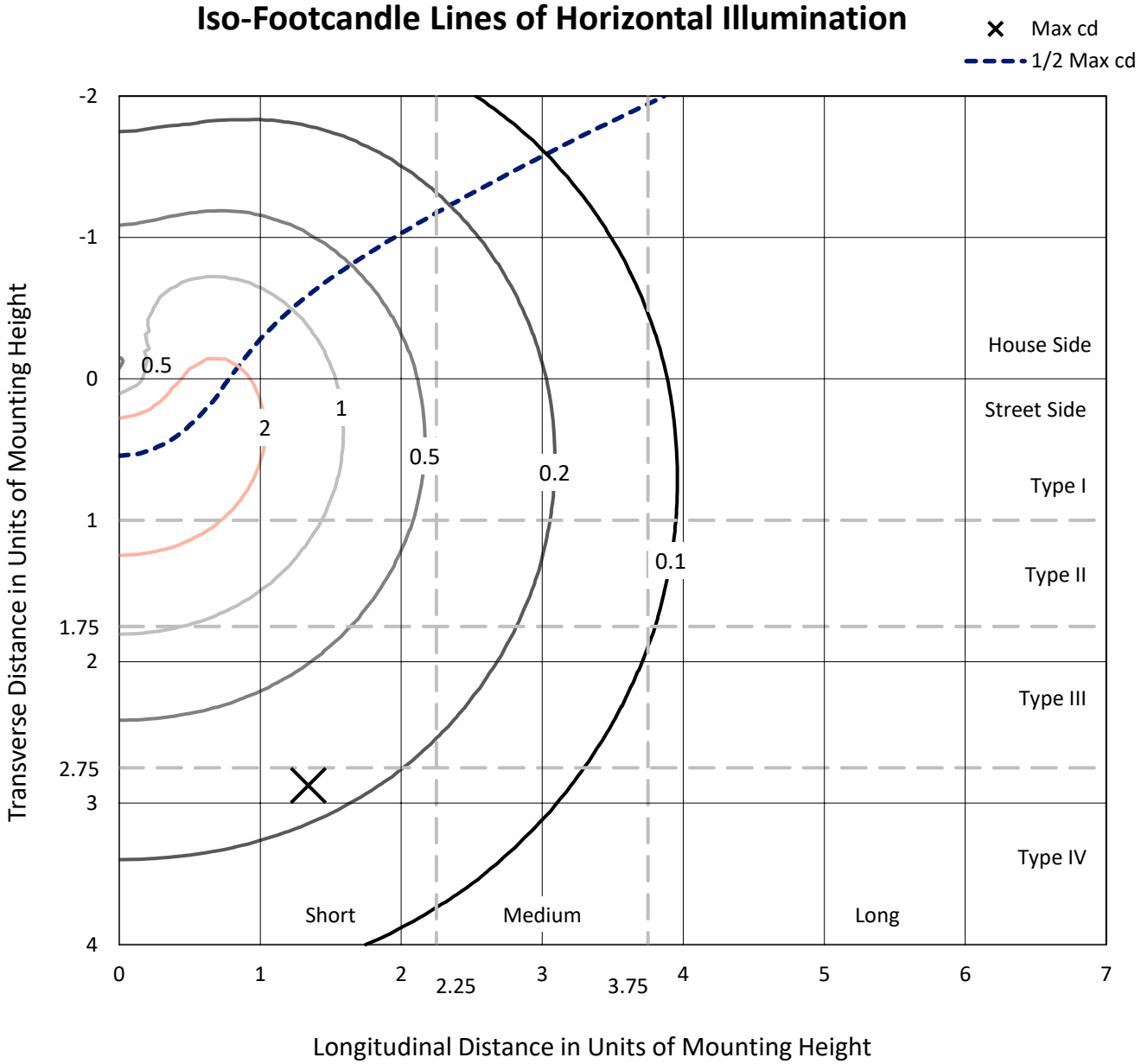


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Iso-Footcandle Lines of Horizontal Illumination



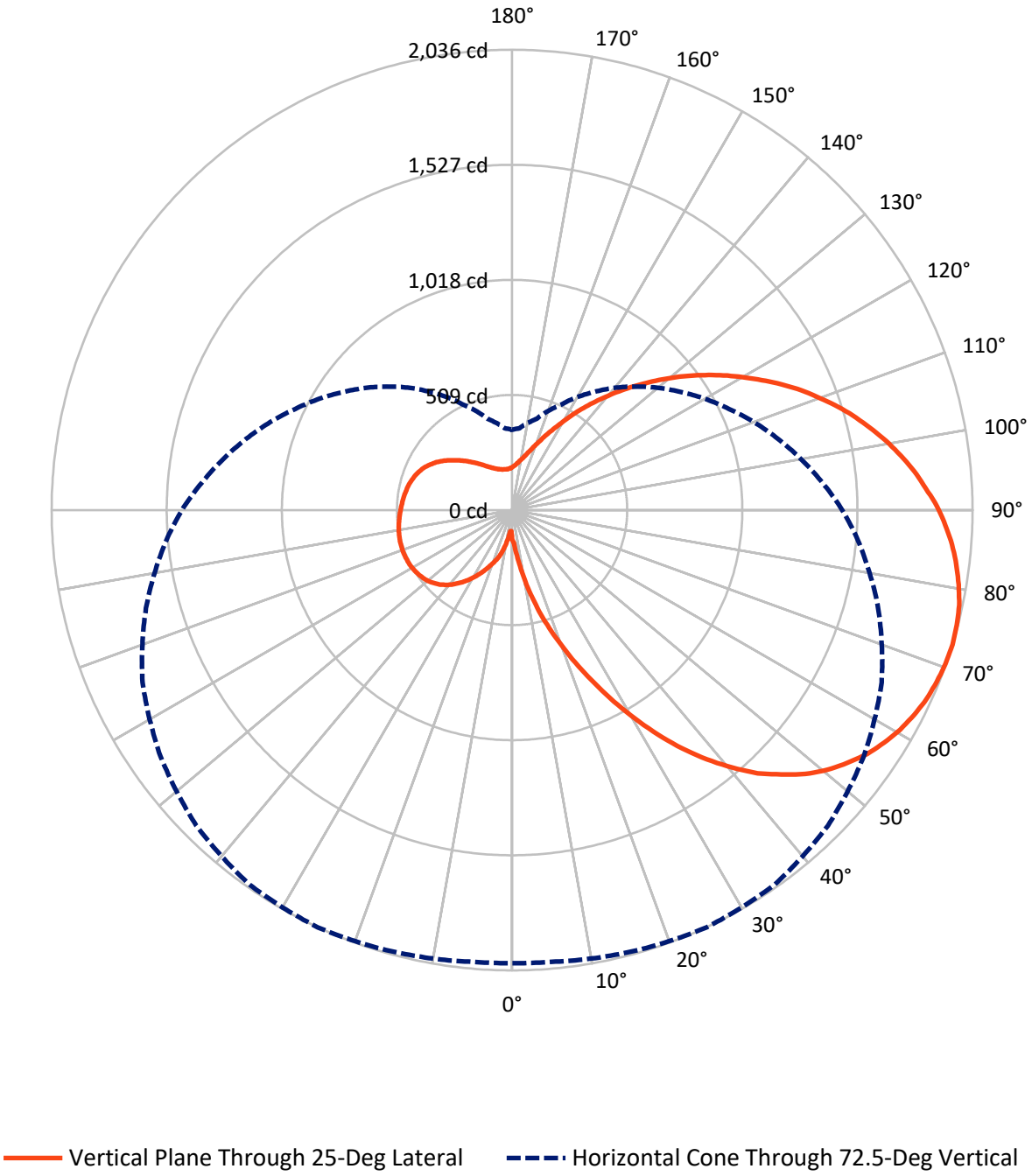
Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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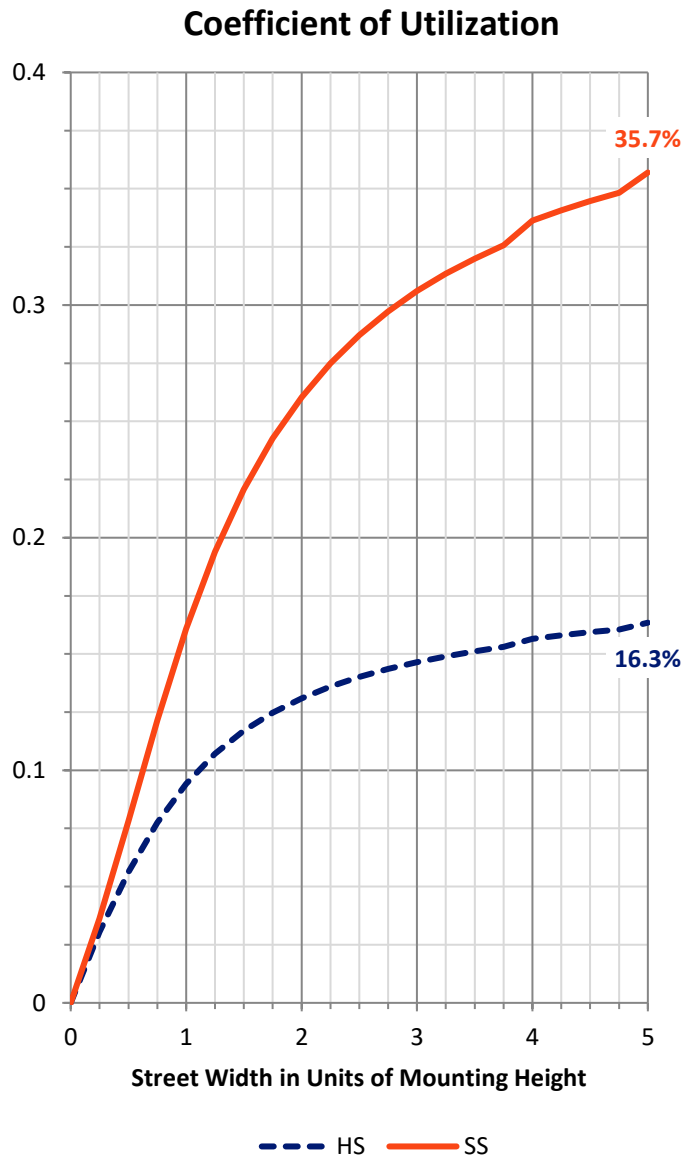
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2176.3	1665.4	3841.7
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	4922.0	3315.2	8237.2
	% Fixture	40.7	27.4	68.2
Total	Lumens	7098.3	4980.5	12078.9
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	0.1
10°-20°	102.5	0.8
20°-30°	279.4	2.3
30°-40°	553.6	4.6
40°-50°	864.2	7.2
50°-60°	1132.7	9.4
60°-70°	1321.8	10.9
70°-80°	1418.2	11.7
80°-90°	1408.9	11.7
90°-100°	1307.1	10.8
100°-110°	1138.2	9.4
110°-120°	921.0	7.6
120°-130°	678.0	5.6
130°-140°	448.4	3.7
140°-150°	265.2	2.2
150°-160°	139.5	1.2
160°-170°	64.6	0.5
170°-180°	18.6	0.2
0°-90°	7098.3	58.8
0°-180°	12078.9	100.0



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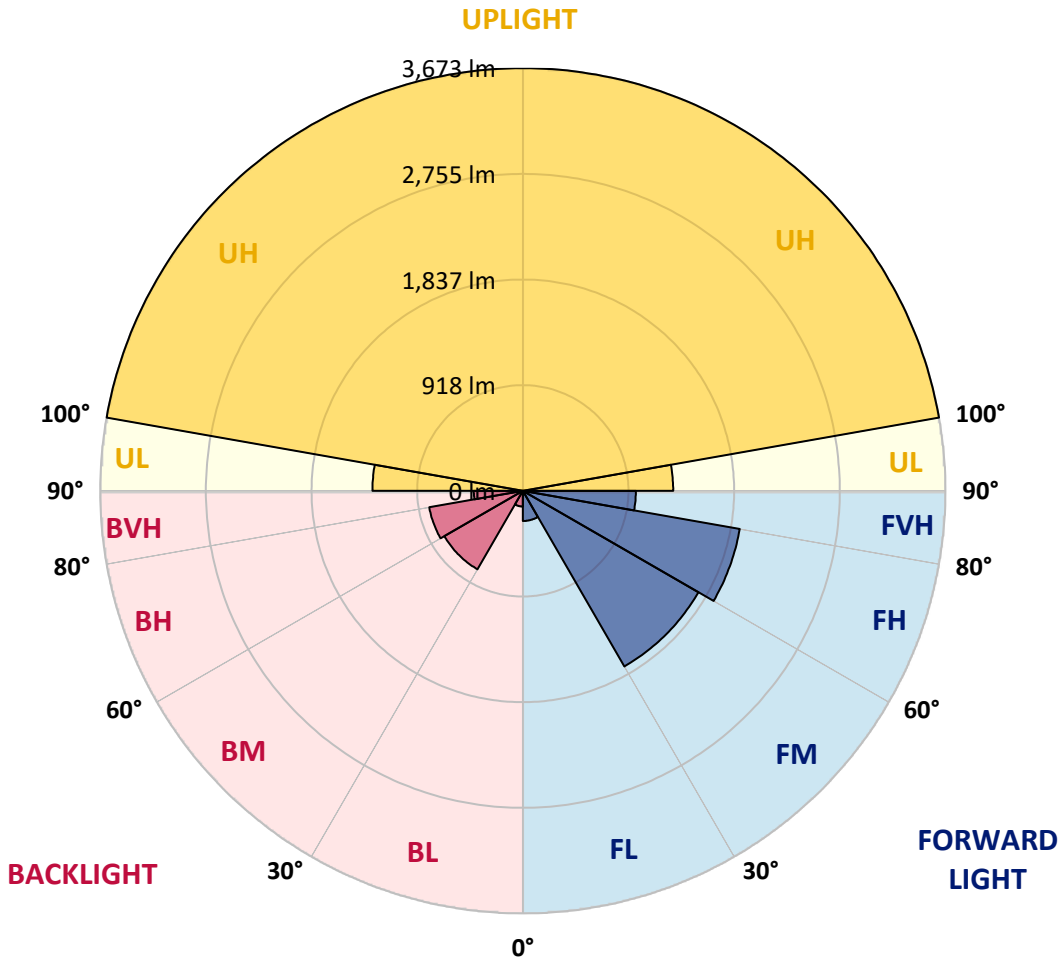
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	262.3	2.2			
FM	(30°-60°)	1762.9	14.6			
FH	(60°-80°)	1914.6	15.9			G2/5000
FVH	(80°-90°)	982.2	8.1			G5
BL	(0°-30°)	136.7	1.1	B1/500		
BM	(30°-60°)	787.5	6.5	B1/1000		
BH	(60°-80°)	825.4	6.8	B2/1000		G2/1000
BVH	(80°-90°)	426.6	3.5			G3/500
UL	(90°-100°)	1307.1	10.8		U5	
UH	(100°-180°)	3673.5	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°	131.2	131.2	131.2	*131.2*	131.2	131.2	131.2	131.2	131.2	131.2	131.2
2.5°	141.0	141.0	143.4	*144.2*	145.1	145.1	145.9	145.1	141.8	137.7	135.3
5°	192.3	190.7	189.9	*190.7*	190.7	187.4	182.6	173.6	167.1	156.5	152.4
7.5°	257.5	255.9	253.5	*251.0*	251.0	242.9	234.7	227.4	216.0	201.3	196.4
10°	333.3	330.1	326.8	*321.9*	316.2	308.9	298.3	286.1	270.6	255.1	245.3
12.5°	407.5	406.7	405.0	*397.7*	387.1	380.6	369.2	352.1	332.5	311.3	303.2
15°	493.1	489.0	486.5	*480.8*	474.3	461.3	442.5	426.2	403.4	374.1	364.3
17.5°	572.1	570.5	565.6	*564.0*	553.4	539.5	518.3	493.9	466.2	439.3	424.6
20°	658.5	662.6	656.9	*652.0*	633.2	619.4	599.8	576.2	542.8	504.5	489.0
22.5°	754.7	758.7	749.8	*749.8*	734.3	711.5	683.8	656.0	614.5	574.6	555.0
25°	866.3	867.9	854.1	*848.4*	837.0	814.2	780.7	748.1	700.1	649.5	626.7
27.5°	972.3	975.5	967.4	*960.0*	941.3	919.3	882.6	844.3	789.7	729.4	704.1
30°	1092.1	1085.5	1082.3	*1069.2*	1049.7	1026.9	986.1	943.7	881.0	810.1	779.1
32.5°	1198.0	1193.1	1195.6	*1185.0*	1156.4	1131.2	1092.9	1041.5	968.2	894.0	859.0
35°	1307.2	1309.7	1306.4	*1295.0*	1277.9	1244.5	1192.3	1134.4	1061.1	973.9	936.4
37.5°	1418.9	1413.2	1409.1	*1399.3*	1382.2	1344.7	1293.4	1228.2	1143.4	1051.3	1009.7
40°	1515.0	1519.1	1514.2	*1497.9*	1482.4	1440.9	1384.6	1310.5	1223.3	1124.7	1076.6
42.5°	1606.3	1604.7	1600.6	*1591.6*	1570.4	1526.4	1471.0	1395.2	1296.6	1187.4	1136.9
45°	1679.6	1681.3	1681.3	*1668.2*	1648.7	1608.7	1545.2	1467.8	1362.6	1247.7	1194.7
47.5°	1749.7	1752.2	1750.6	*1744.8*	1723.7	1676.4	1612.0	1532.1	1420.5	1302.3	1242.8
50°	1811.7	1811.7	1810.9	*1806.0*	1785.6	1740.0	1673.9	1588.4	1472.6	1348.0	1289.3
52.5°	1863.0	1862.2	1863.0	*1857.3*	1836.1	1794.6	1726.1	1634.8	1519.1	1386.3	1329.2
55°	1903.8	1901.3	1907.0	*1904.6*	1885.8	1839.4	1766.8	1678.0	1558.2	1422.9	1362.6
57.5°	1936.4	1935.5	1942.9	*1940.4*	1921.7	1875.2	1803.5	1713.1	1590.8	1453.1	1387.1
60°	1963.3	1961.6	1971.4	*1971.4*	1952.7	1906.2	1835.3	1740.0	1616.9	1476.7	1409.9
62.5°	1982.0	1982.8	1991.8	*1995.0*	1978.7	1931.5	1857.3	1763.6	1638.1	1495.5	1427.8
65°	1995.0	1996.7	2007.3	*2013.8*	1997.5	1951.0	1874.4	1780.7	1655.2	1510.9	1441.7
67.5°	2003.2	2004.0	2018.7	*2025.2*	2012.2	1963.3	1889.1	1792.9	1666.6	1520.7	1452.3
70°	2006.5	2007.3	2023.6	*2033.3*	2020.3	1970.6	1895.6	1799.4	1673.9	1527.2	1458.0
72.5°	*2004.0*	*2005.6*	*2022.7*	*2035.8*	*2022.7*	*1973.9*	*1898.1*	*1802.7*	*1675.6*	*1534.6*	*1459.6*
75°	1995.9	1997.5	2017.0	*2030.1*	2020.3	1969.8	1894.0	1799.4	1673.1	1528.1	1457.2
77.5°	1982.0	1984.4	2004.8	*2021.1*	2009.7	1961.6	1885.8	1790.5	1664.2	1519.9	1448.2
80°	1961.6	1962.4	1985.3	*2001.6*	1993.4	1945.3	1869.5	1775.0	1649.5	1506.1	1436.0
82.5°	1935.5	1938.8	1960.8	*1978.7*	1971.4	1921.7	1848.3	1755.4	1630.8	1488.9	1418.0
85°	1907.8	1911.1	1931.5	*1951.0*	1942.1	1895.6	1822.3	1730.2	1605.5	1465.3	1397.7
87.5°	1874.4	1876.9	1896.4	*1916.8*	1908.7	1862.2	1791.3	1700.8	1579.4	1443.3	1374.0
90°	1837.8	1840.2	1858.9	*1878.5*	1867.9	1823.9	1754.6	1665.8	1547.6	1414.0	1347.1
92.5°	1798.6	1799.4	1820.6	*1831.2*	1825.5	1786.4	1718.0	1632.4	1514.2	1383.8	1321.1
95°	1754.6	1754.6	1775.0	*1786.4*	1776.6	1740.0	1675.6	1590.0	1475.1	1352.8	1288.5
97.5°	1706.5	1708.2	1723.7	*1735.1*	1731.8	1693.5	1632.4	1550.9	1440.9	1319.4	1258.3
100°	1656.8	1656.8	1670.7	*1680.5*	1673.1	1642.2	1584.3	1509.3	1397.7	1283.6	1224.1
102.5°	1604.7	1603.9	1615.3	*1622.6*	1617.7	1589.2	1535.4	1461.2	1356.9	1246.1	1189.9
105°	1546.8	1544.4	1555.8	*1563.9*	1559.0	1533.8	1488.1	1416.4	1315.4	1209.4	1155.6
107.5°	1484.9	1488.9	1495.5	*1500.4*	1496.3	1474.3	1431.1	1367.5	1272.2	1171.1	1119.0
110°	1426.2	1428.6	1429.5	*1435.2*	1434.3	1416.4	1379.7	1316.2	1225.7	1130.4	1079.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1366.7	1365.9	1366.7	*1370.8*	1370.8	1352.8	1317.8	1262.4	1180.1	1087.2	1040.7
115°	1302.3	1299.1	1299.9	*1300.7*	1303.9	1290.1	1259.9	1207.8	1127.1	1044.8	999.2
117.5°	1235.5	1234.7	1233.0	*1230.6*	1230.6	1224.9	1198.8	1152.4	1075.8	994.3	956.0
120°	1171.9	1168.7	1164.6	*1162.1*	1163.8	1157.3	1136.1	1089.6	1022.0	948.6	910.3
122.5°	1098.6	1101.0	1098.6	*1095.3*	1096.1	1089.6	1071.7	1032.6	964.9	894.8	860.6
125°	1035.8	1035.0	1031.7	*1026.9*	1026.9	1024.4	1004.9	970.6	910.3	843.5	811.7
127.5°	965.7	966.6	963.3	*960.8*	962.5	957.6	944.5	905.4	852.5	793.0	762.0
130°	899.7	898.9	898.1	*893.2*	897.3	888.3	876.9	844.3	793.8	743.3	714.7
132.5°	837.8	832.9	829.6	*828.8*	828.0	827.2	813.3	784.8	742.4	691.9	664.2
135°	775.8	771.8	767.7	*766.1*	767.7	763.6	751.4	727.8	688.6	639.7	618.6
137.5°	712.3	710.7	710.7	*706.6*	706.6	703.3	692.7	673.2	636.5	594.1	572.9
140°	655.2	652.0	650.3	*647.9*	650.3	647.1	635.7	616.9	586.0	549.3	528.9
142.5°	596.6	593.3	595.7	*593.3*	590.9	589.2	579.4	564.8	537.9	504.5	487.4
145°	542.0	542.0	540.3	*541.1*	539.5	537.9	528.1	514.2	491.4	460.5	448.2
147.5°	490.6	492.2	490.6	*492.2*	492.2	485.7	479.2	467.8	446.6	422.2	409.1
150°	442.5	445.0	443.3	*442.5*	443.3	440.1	431.1	424.6	405.9	384.7	371.6
152.5°	401.8	403.4	403.4	*401.8*	401.0	399.3	390.4	381.4	366.7	350.4	341.5
155°	363.5	363.5	364.3	*365.1*	362.7	357.8	354.5	347.2	334.1	319.5	310.5
157.5°	331.7	330.9	331.7	*330.9*	330.1	325.2	320.3	314.6	304.0	290.9	286.1
160°	301.5	301.5	302.4	*301.5*	298.3	295.8	291.8	286.9	277.9	268.9	262.4
162.5°	277.1	277.1	277.1	*276.3*	273.0	272.2	267.3	262.4	255.1	247.8	242.9
165°	255.9	255.9	255.1	*255.1*	253.5	251.0	246.9	242.9	236.3	230.6	227.4
167.5°	238.8	238.0	237.2	*236.3*	235.5	233.1	229.0	226.6	221.7	216.8	214.3
170°	224.1	224.1	223.3	*223.3*	221.7	219.2	216.8	213.5	210.3	205.4	203.7
172.5°	211.1	211.1	211.1	*211.1*	208.6	207.8	205.4	202.9	200.5	197.2	195.6
175°	201.3	201.3	201.3	*201.3*	199.7	198.0	197.2	194.8	193.1	190.7	189.9
177.5°	194.0	194.0	194.0	*194.0*	193.1	191.5	190.7	189.1	187.4	186.6	185.8
180°	187.4	187.4	187.4	*187.4*	187.4	187.4	187.4	187.4	187.4	187.4	187.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2
2.5°	132.8	127.9	121.4	114.1	108.4	101.1	93.7	89.6	87.2	85.6
5°	148.3	137.7	127.9	117.4	109.2	101.9	93.7	87.2	83.9	83.1
7.5°	189.1	174.4	159.7	146.7	135.3	123.9	115.7	109.2	105.1	105.1
10°	238.0	217.6	200.5	183.4	167.9	154.0	142.6	136.1	131.2	129.6
12.5°	293.4	268.9	245.3	225.7	202.9	187.4	173.6	164.6	158.9	158.1
15°	351.3	326.0	295.8	268.9	243.7	219.2	202.9	189.9	185.0	185.0
17.5°	406.7	374.1	340.7	308.1	277.1	248.6	225.7	211.1	203.7	202.1
20°	466.2	427.0	383.8	345.5	307.2	273.8	246.9	228.2	218.4	217.6
22.5°	527.3	481.6	435.2	384.7	340.7	300.7	268.9	246.9	234.7	233.1
25°	597.4	542.0	486.5	431.1	378.1	330.9	293.4	266.5	252.6	251.0
27.5°	674.8	605.5	539.5	475.9	414.0	361.8	317.0	286.1	268.9	268.1
30°	745.7	669.1	594.1	520.8	453.1	390.4	340.7	304.8	286.1	283.6
32.5°	816.6	731.8	647.1	566.4	488.2	420.5	364.3	322.7	300.7	299.1
35°	889.9	793.8	701.7	608.8	527.3	450.7	386.3	340.7	317.0	313.8
37.5°	958.4	854.9	753.8	655.2	561.5	478.4	407.5	357.8	330.9	326.8
40°	1021.2	909.5	801.1	695.2	594.1	504.5	427.9	372.4	342.3	339.0
42.5°	1079.0	960.8	844.3	730.2	624.3	527.3	445.0	384.7	351.3	348.0
45°	1133.6	1008.9	884.2	762.8	650.3	548.5	461.3	396.1	360.2	355.3
47.5°	1180.1	1049.7	916.0	790.5	674.0	566.4	473.5	404.2	366.7	361.8
50°	1221.6	1083.9	946.2	817.4	694.4	582.7	484.9	410.7	370.0	365.1
52.5°	1255.1	1115.7	972.3	838.6	713.1	595.7	493.1	416.4	373.3	368.4
55°	1287.6	1141.8	995.1	857.3	727.0	608.0	499.6	419.7	374.9	369.2
57.5°	1314.5	1163.8	1013.8	872.0	740.8	616.1	505.3	421.3	374.9	368.4
60°	1334.1	1180.9	1028.5	884.2	749.8	623.5	509.4	422.2	374.1	367.6
62.5°	1351.2	1194.7	1039.1	894.8	758.7	629.2	513.4	423.0	372.4	365.9
65°	1364.3	1206.2	1048.0	901.4	764.4	634.0	514.2	422.2	370.0	363.5
67.5°	1374.9	1213.5	1053.8	907.1	768.5	636.5	515.9	421.3	368.4	361.0
70°	1378.9	1216.7	1057.0	909.5	771.0	638.1	515.9	419.7	365.1	357.8
72.5°	*1378.1*	*1216.7*	*1057.8*	*910.3*	*771.8*	*638.9*	*515.1*	*417.3*	*362.7*	*355.3*
75°	1375.7	1214.3	1056.2	909.5	771.0	638.1	514.2	415.6	360.2	353.7
77.5°	1369.1	1207.8	1050.5	906.2	769.3	635.7	511.8	414.0	358.6	350.4
80°	1357.7	1198.0	1042.3	898.9	763.6	633.2	509.4	410.7	355.3	348.8
82.5°	1341.4	1185.8	1032.6	892.4	758.7	628.3	506.1	409.1	353.7	347.2
85°	1322.7	1170.3	1019.5	882.6	751.4	623.5	502.0	405.9	352.1	345.5
87.5°	1299.9	1149.9	1006.5	871.2	742.4	616.9	497.9	403.4	351.3	344.7
90°	1276.2	1131.2	990.2	860.6	735.1	610.4	493.9	401.8	350.4	344.7
92.5°	1250.2	1110.8	974.7	846.8	725.3	603.9	489.8	400.1	350.4	344.7
95°	1224.1	1089.6	959.2	834.5	715.5	597.4	485.7	399.3	352.1	346.4
97.5°	1193.1	1065.2	940.5	821.5	704.1	590.0	482.5	398.5	352.9	348.0
100°	1163.8	1040.7	920.9	806.8	693.5	581.9	477.6	397.7	354.5	348.8
102.5°	1132.0	1017.1	901.4	791.3	682.1	572.9	473.5	396.9	356.1	351.3
105°	1100.2	988.6	880.2	773.4	668.3	564.0	468.6	396.1	357.0	352.1
107.5°	1065.2	961.7	856.5	756.3	654.4	554.2	462.1	394.4	357.8	352.9
110°	1029.3	929.9	832.1	736.7	638.1	542.0	455.6	390.4	357.0	352.9

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

Scaled Data Report

REPORT NUMBER: P1223898
CATALOG NUMBER: FFX-CLB-80-730-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	995.1	899.7	805.2	714.7	621.0	529.7	446.6	386.3	354.5	351.3
115°	952.7	865.5	776.7	691.1	601.4	514.2	436.8	380.6	351.3	347.2
117.5°	913.6	829.6	746.5	665.8	581.1	498.8	425.4	373.3	345.5	342.3
120°	869.6	791.3	713.9	637.3	558.3	480.8	411.6	364.3	338.2	335.8
122.5°	826.4	753.8	680.5	608.0	533.8	460.5	397.7	352.9	330.1	327.6
125°	780.7	713.9	645.5	577.0	506.9	439.3	381.4	339.8	319.5	317.0
127.5°	734.3	672.3	608.0	544.4	480.8	418.1	364.3	326.8	307.2	306.4
130°	685.4	630.0	571.3	512.6	453.9	396.1	346.4	312.9	295.0	293.4
132.5°	641.4	590.0	535.4	480.0	424.6	374.1	329.2	298.3	282.8	281.2
135°	598.2	546.8	499.6	450.7	399.3	352.1	312.1	284.4	270.6	268.9
137.5°	554.2	509.4	465.3	419.7	373.3	330.9	295.8	271.4	259.2	257.5
140°	510.2	472.7	432.7	389.6	349.6	311.3	279.5	259.2	247.8	246.1
142.5°	470.2	434.4	398.5	361.0	325.2	292.6	264.9	245.3	235.5	234.7
145°	431.1	400.1	367.6	334.1	303.2	276.3	251.0	234.7	226.6	225.7
147.5°	396.1	368.4	339.0	310.5	283.6	258.3	238.0	224.1	216.0	215.2
150°	361.0	336.6	312.1	287.7	264.9	243.7	225.7	214.3	208.6	207.0
152.5°	330.1	310.5	288.5	268.1	247.8	229.8	216.0	205.4	200.5	199.7
155°	302.4	286.1	268.1	250.2	233.9	219.2	207.0	198.9	194.8	194.8
157.5°	278.7	264.9	250.2	235.5	222.5	210.3	200.5	194.0	190.7	189.9
160°	257.5	245.3	233.9	223.3	211.1	202.1	194.8	189.1	186.6	185.8
162.5°	238.0	229.8	220.9	211.9	202.9	195.6	189.9	185.8	184.2	184.2
165°	224.1	216.8	209.4	202.9	196.4	191.5	186.6	184.2	182.6	181.7
167.5°	211.9	206.2	201.3	196.4	191.5	187.4	184.2	182.6	180.9	180.9
170°	202.1	198.0	194.8	191.5	188.3	185.0	183.4	181.7	180.9	180.9
172.5°	194.0	191.5	189.1	187.4	185.0	183.4	181.7	180.9	180.9	180.9
175°	189.1	187.4	185.8	185.0	184.2	183.4	182.6	181.7	181.7	181.7
177.5°	185.8	185.0	185.0	184.2	184.2	184.2	184.2	184.2	184.2	184.2
180°	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

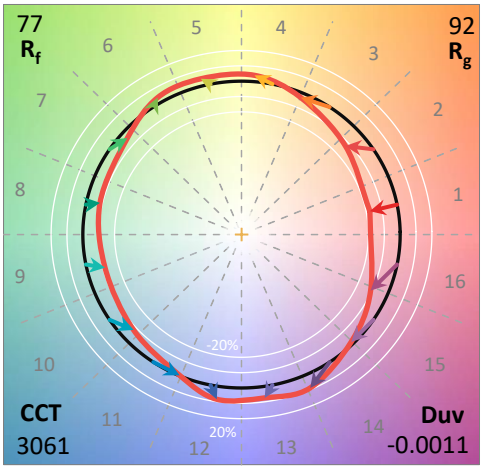
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-4
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-100-730-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3061
CIE u':	0.2489
CIE v':	0.5187
Duv:	-0.0011
CIE x:	0.4312
CIE y:	0.3995
CIE z:	0.1693
Peak Wavelength (nm):	592
Dominant Wavelength (nm):	582
Purity:	49.32381
Rf:	76.8
Rg:	92.2

CRI (Ra):	71.7
R1:	67.8
R2:	85.0
R3:	92.9
R4:	66.0
R5:	68.5
R6:	80.2
R7:	74.5
R8:	39.0
R9:	-40.3
R10:	67.2
R11:	61.6
R12:	59.9
R13:	71.4
R14:	96.3
R15:	58.8



Test Conditions

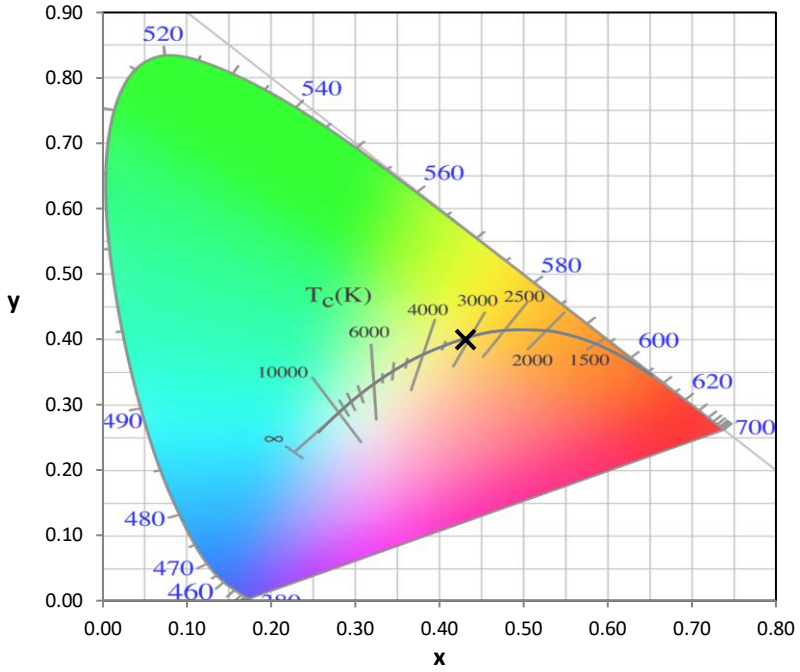
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

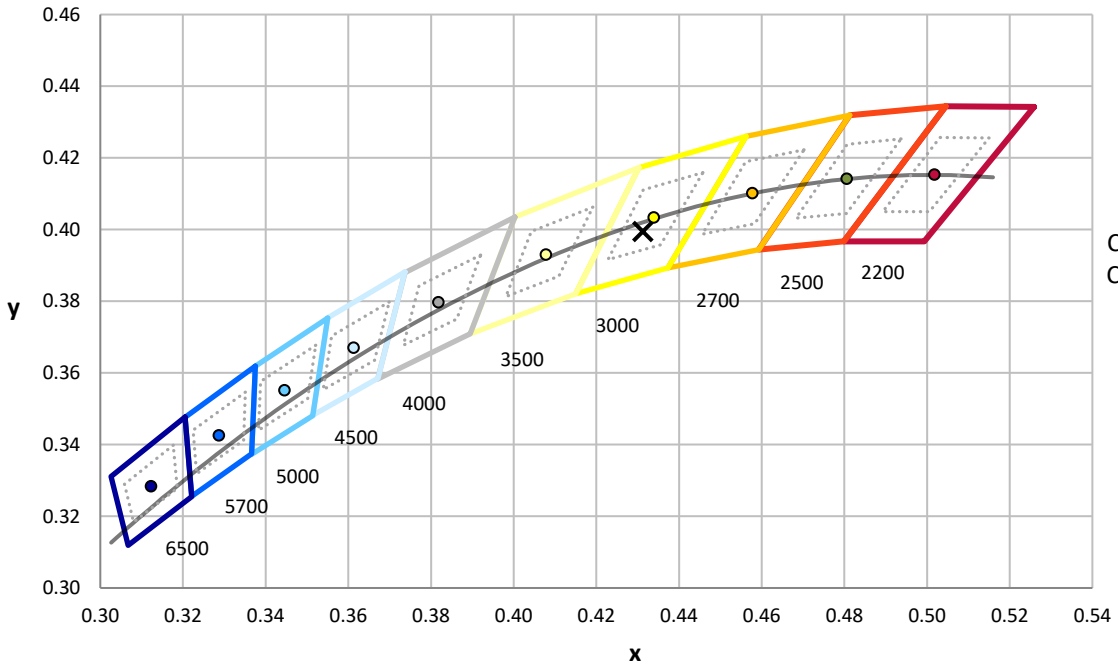
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



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

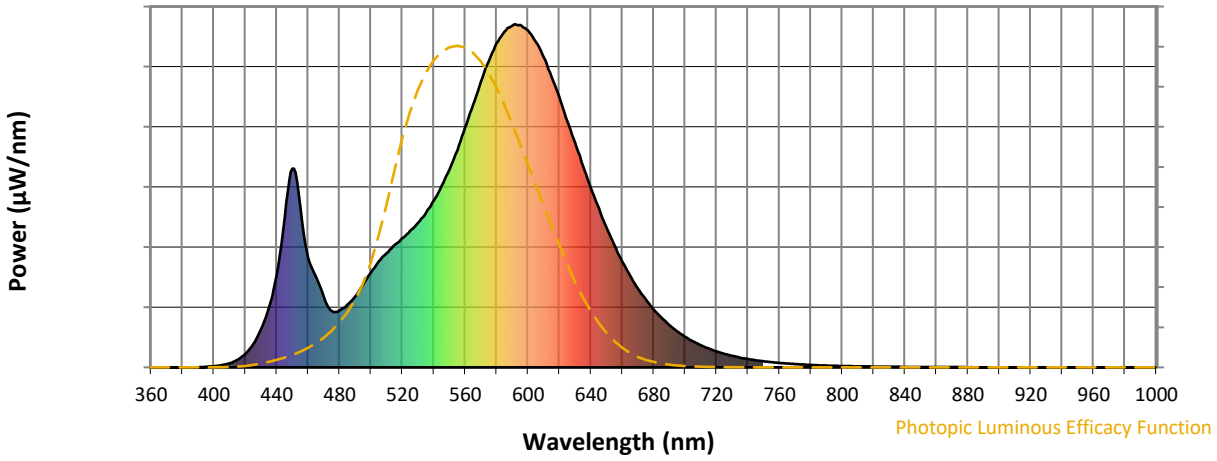


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

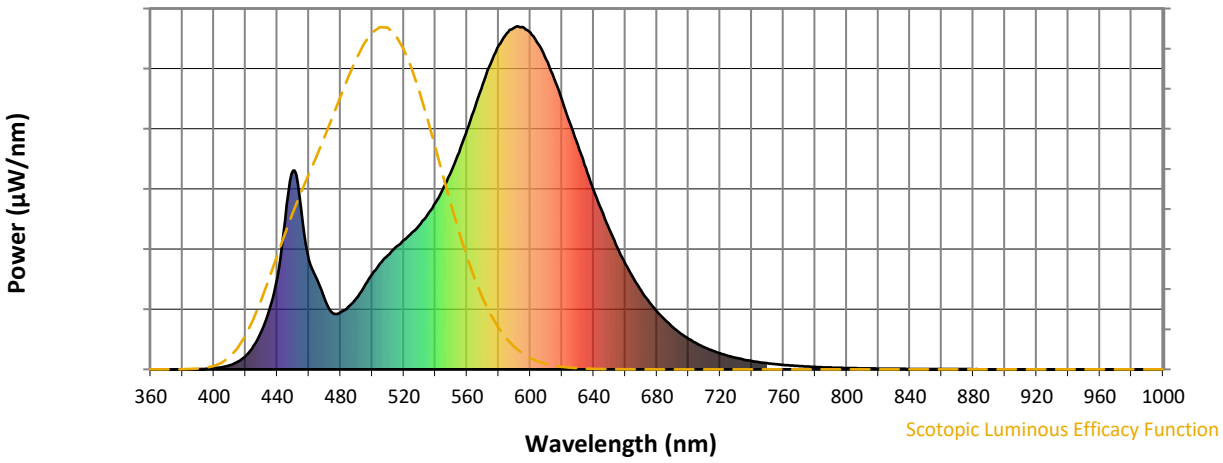


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

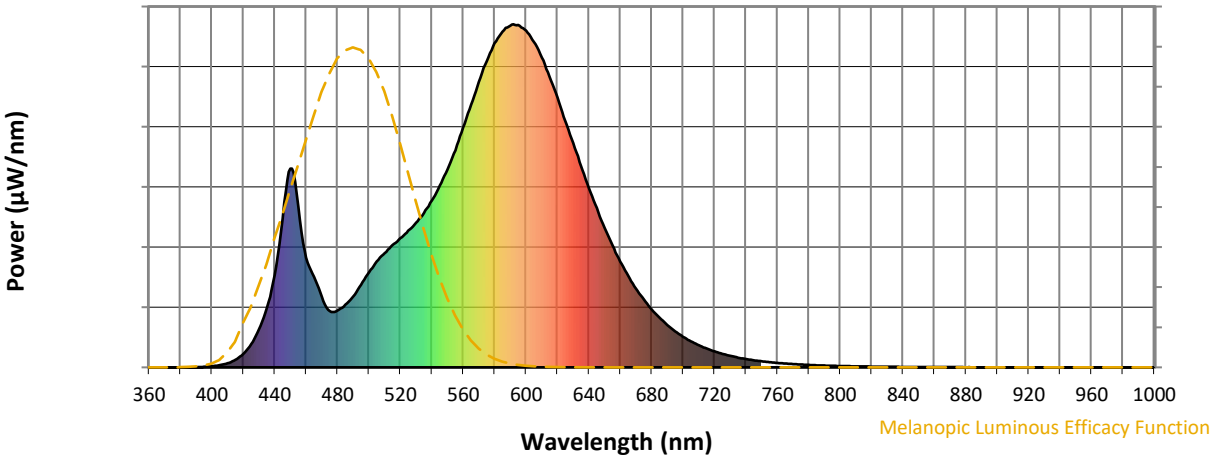


Scotopic Lumens: NR **S/P: 1.29**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

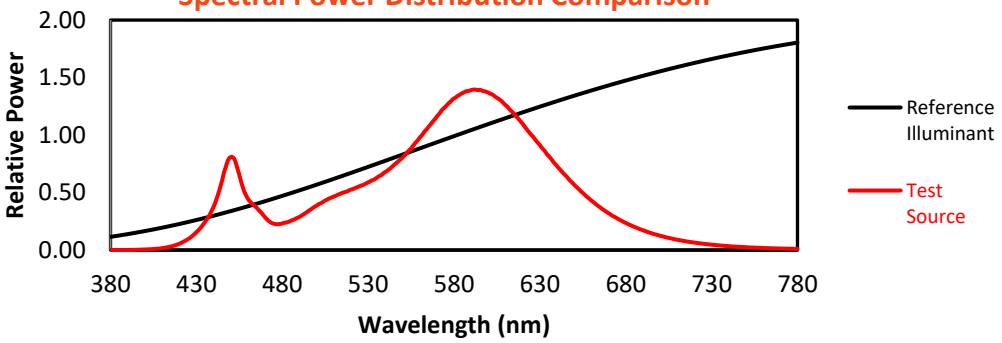
REPORT NUMBER: SP1-2501-332-4

TM-30-18

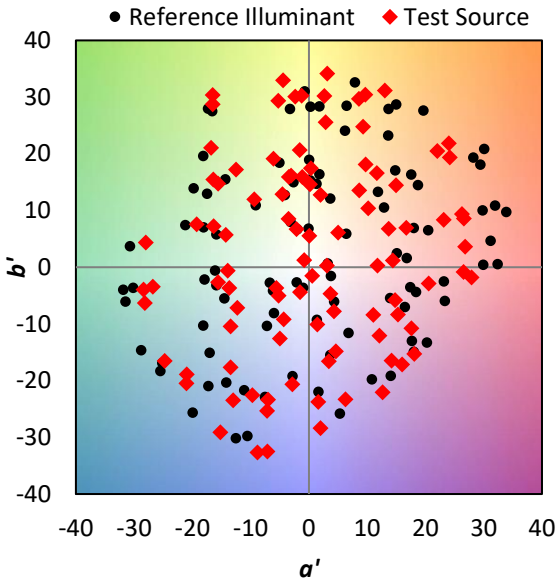
Summary

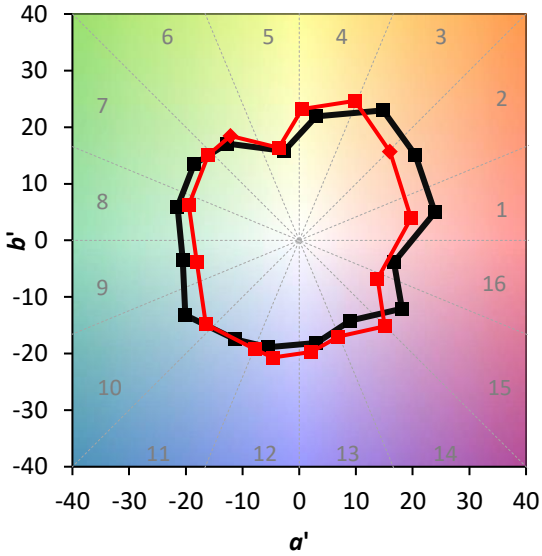
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

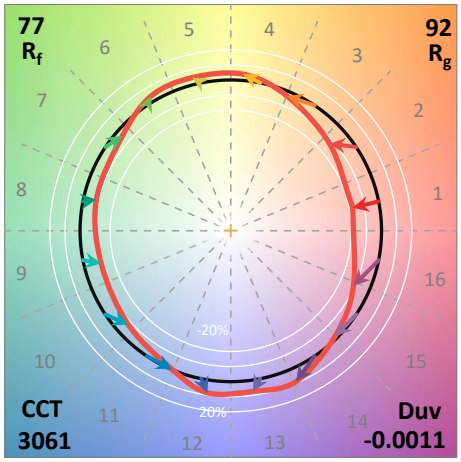
Spectral Power Distribution Comparison

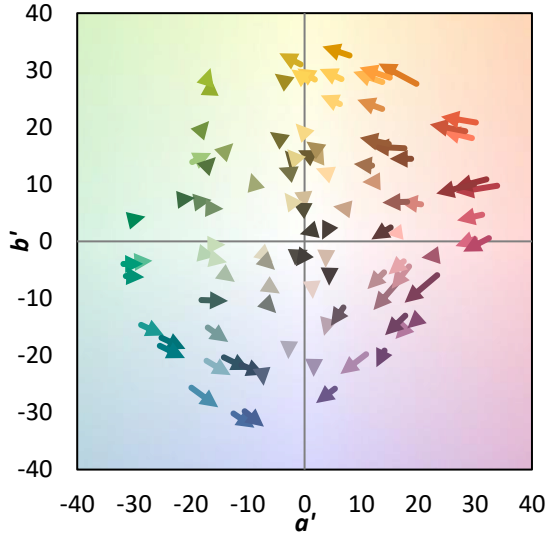


Color Vector Graphics







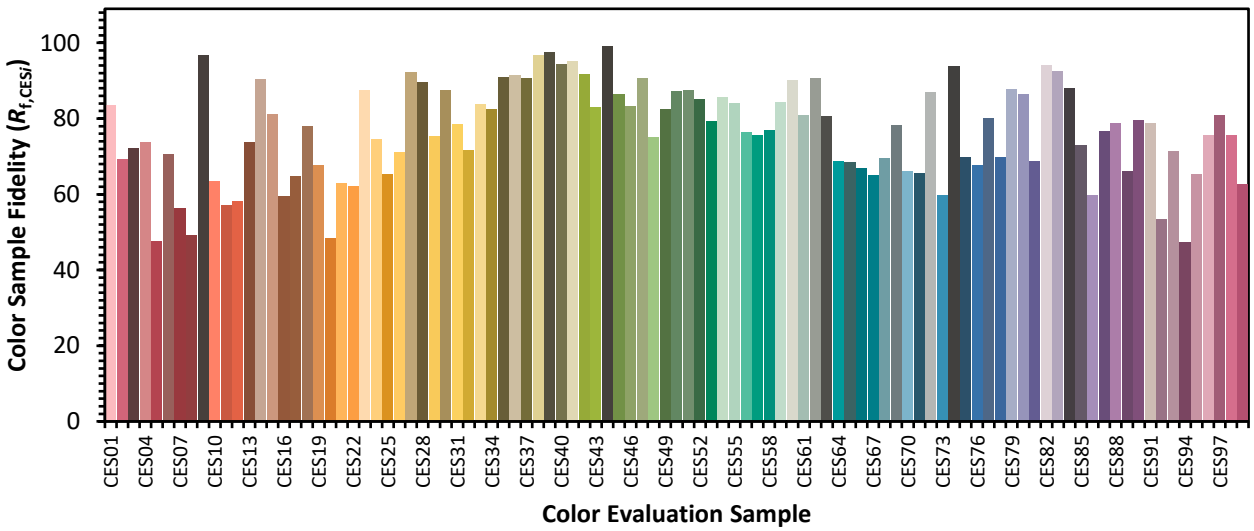


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

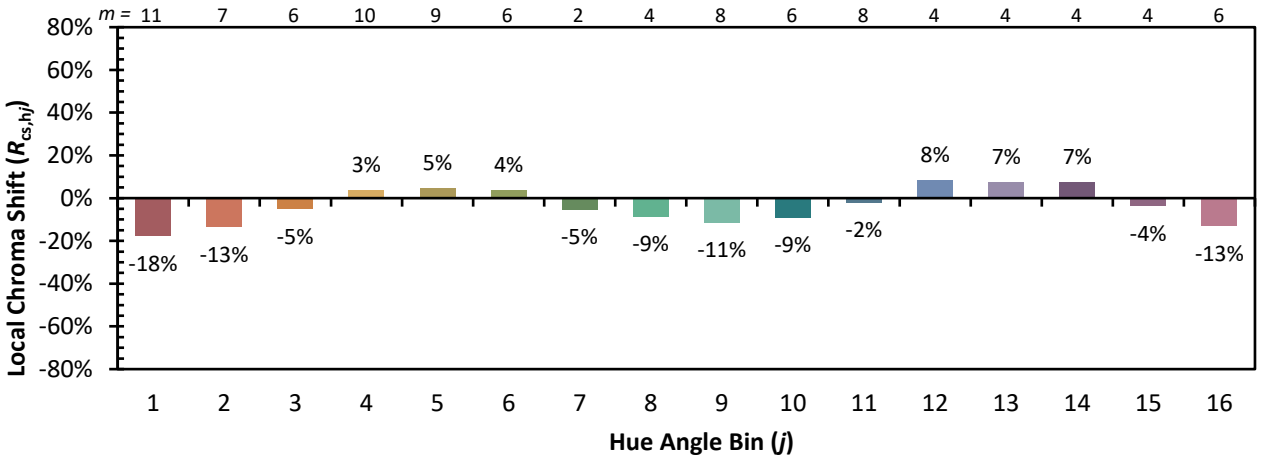
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 83	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 73
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 91	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 97	CES63 = 81	CES88 = 79
CES14 = 74	CES39 = 98	CES64 = 69	CES89 = 66
CES15 = 71	CES40 = 94	CES65 = 69	CES90 = 80
CES16 = 47	CES41 = 95	CES66 = 67	CES91 = 79
CES17 = 50	CES42 = 92	CES67 = 65	CES92 = 53
CES18 = 56	CES43 = 83	CES68 = 70	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 66	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 60	CES98 = 76
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 63
CES25 = 73	CES50 = 87	CES75 = 70	

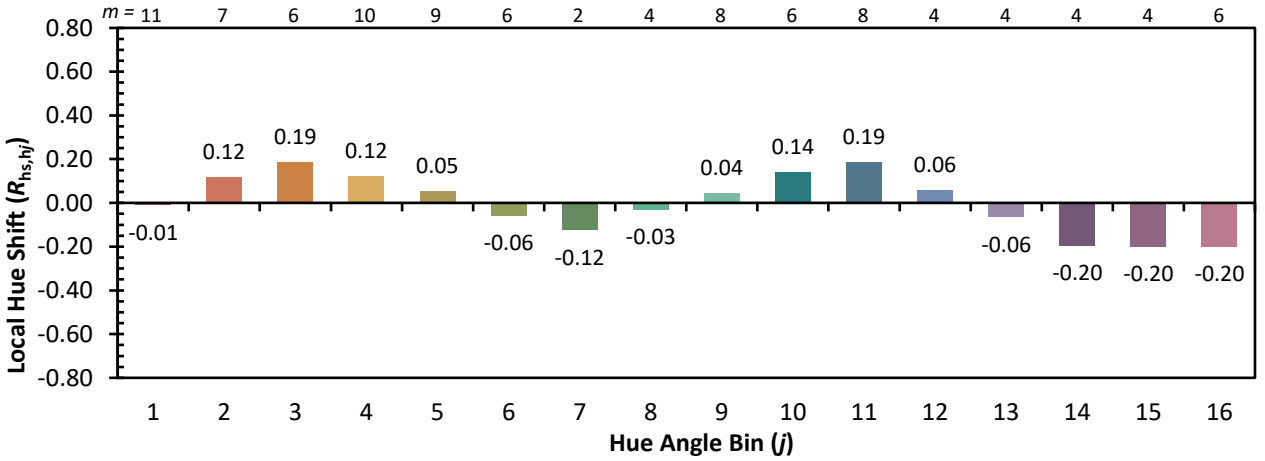


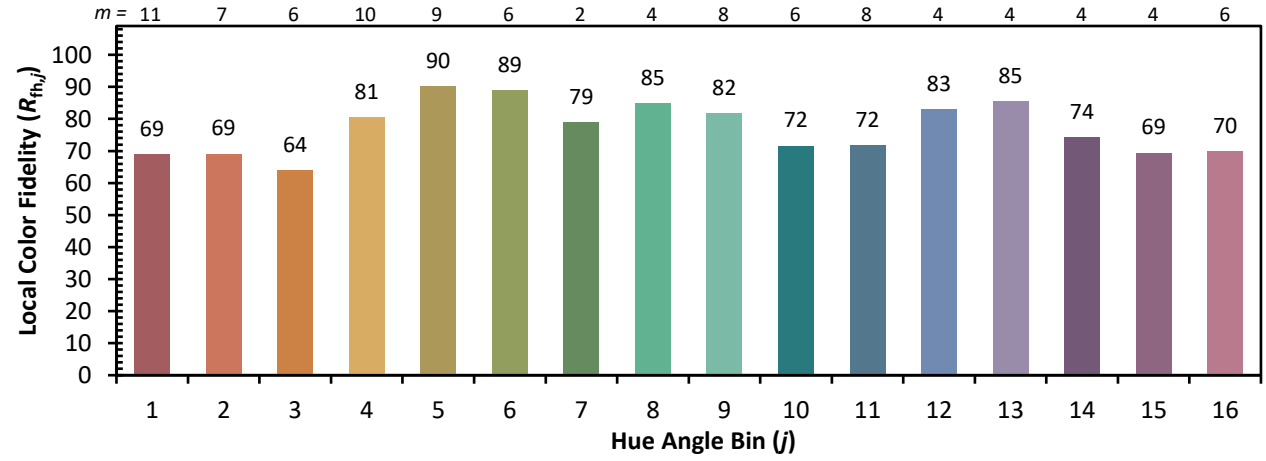
REPORT NUMBER: SP1-2501-332-4

TM-30-18

Color Rendition by Hue-Angle Bin



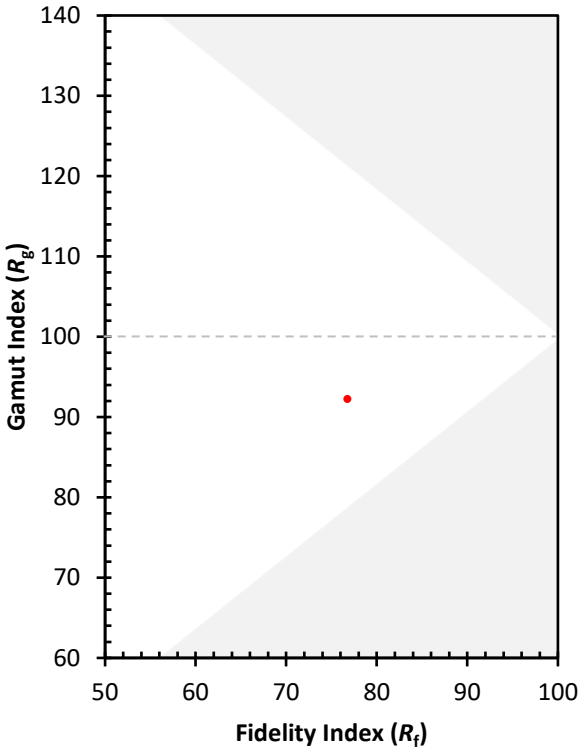


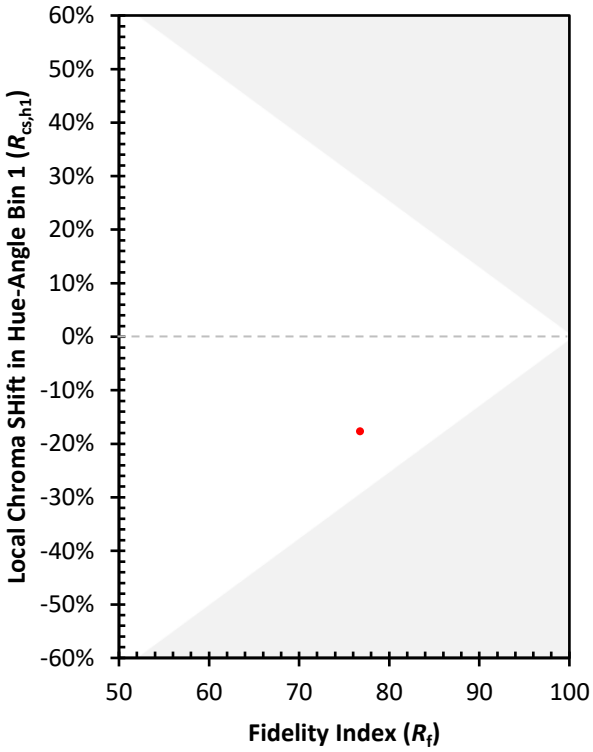


REPORT NUMBER: SP1-2501-332-4

TM-30-18

Measure Comparisons





(END OF REPORT)