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: P1223915

Luminaire Tested: **FFX-CLB-90-750-U-VM9-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223915
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-90-750-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14337.7 lumens
Efficiency:	N/A
Efficacy:	158.3 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):	90.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	5.42%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

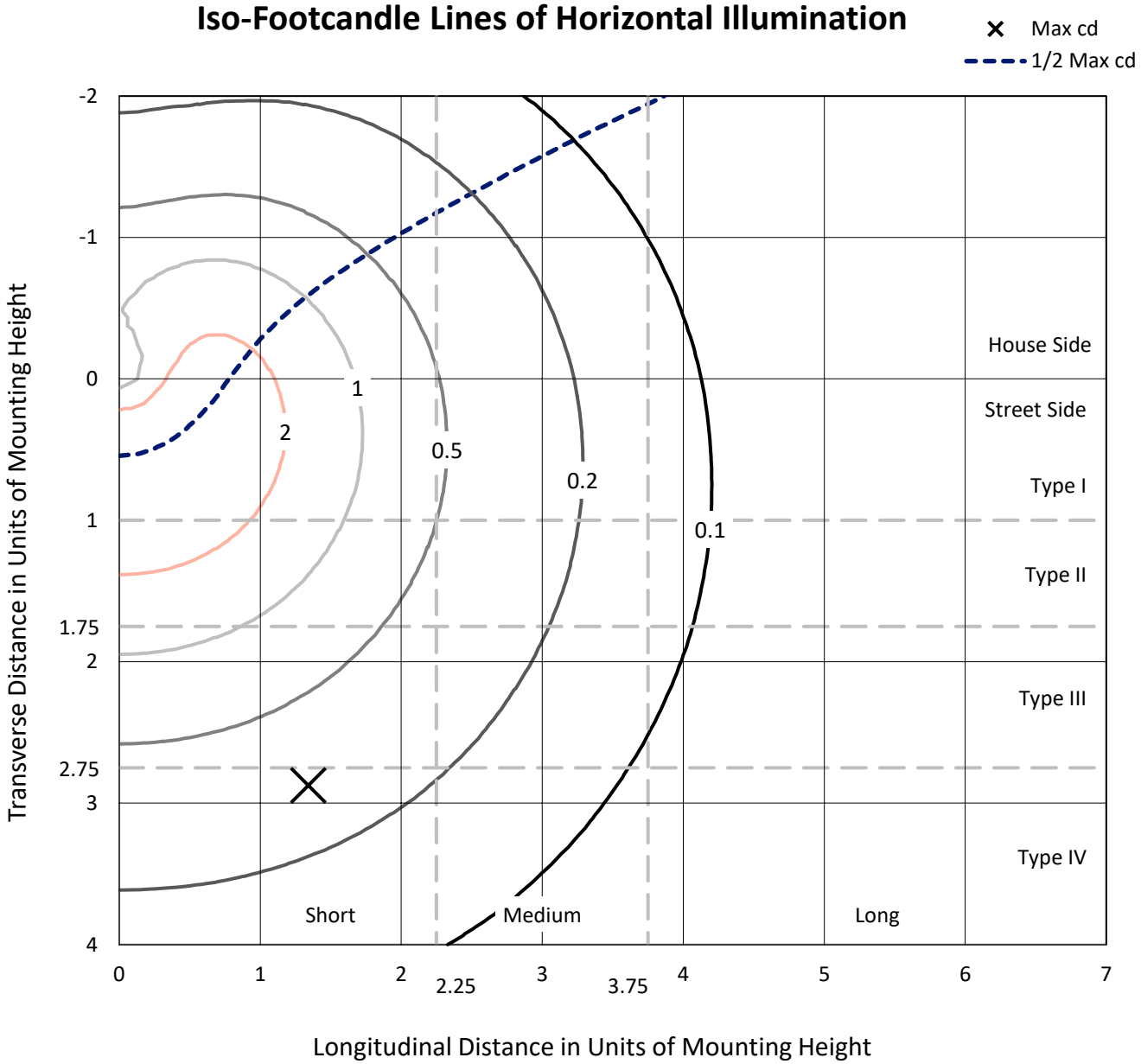


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223915
CATALOG NUMBER: FFX-CLB-90-750-U-VM9-T4

Iso-Footcandle Lines of Horizontal Illumination



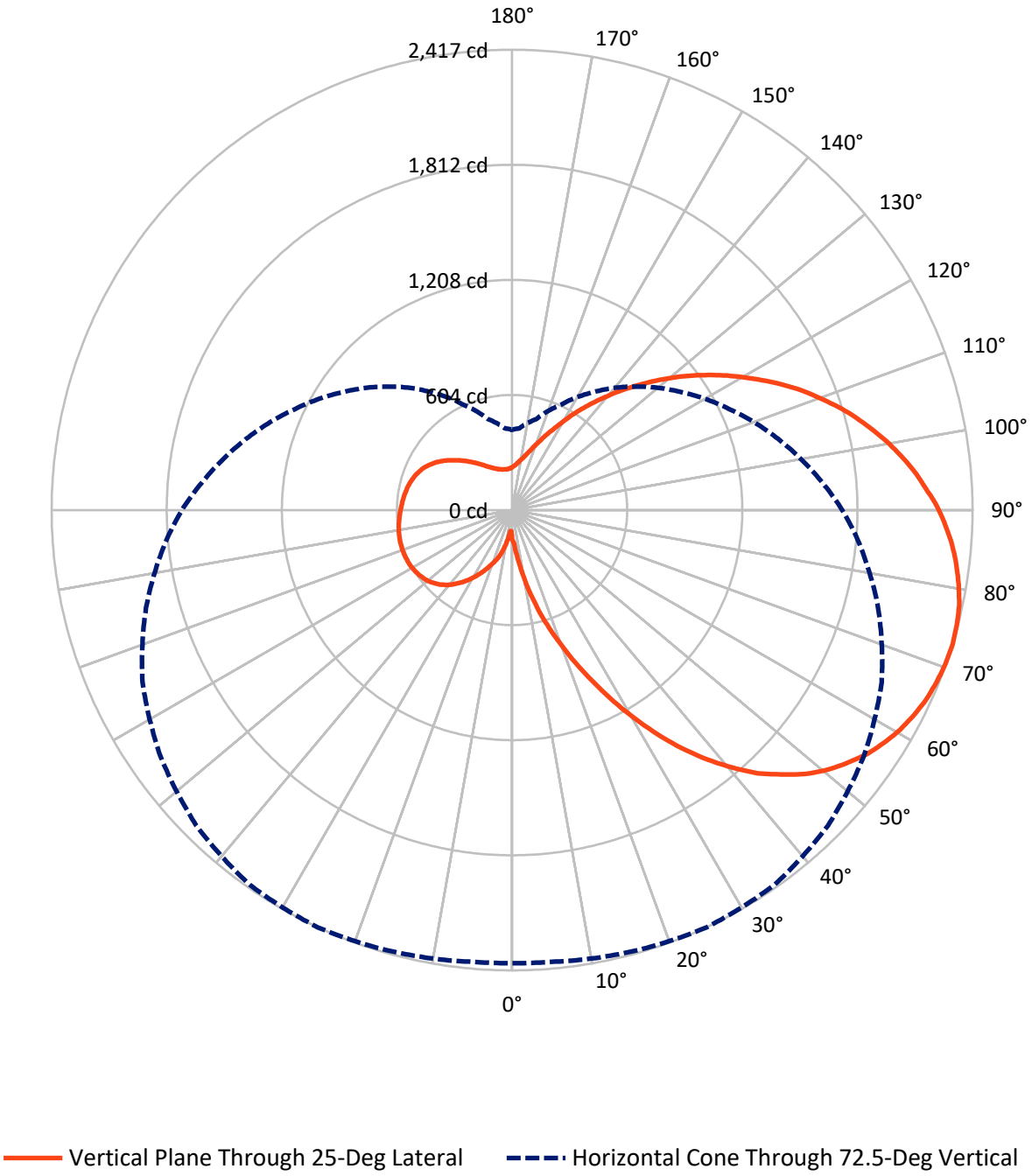
Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1223915
CATALOG NUMBER: FFX-CLB-90-750-U-VM9-T4

Luminous Intensity Polar Plot



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

Scaled Data Report

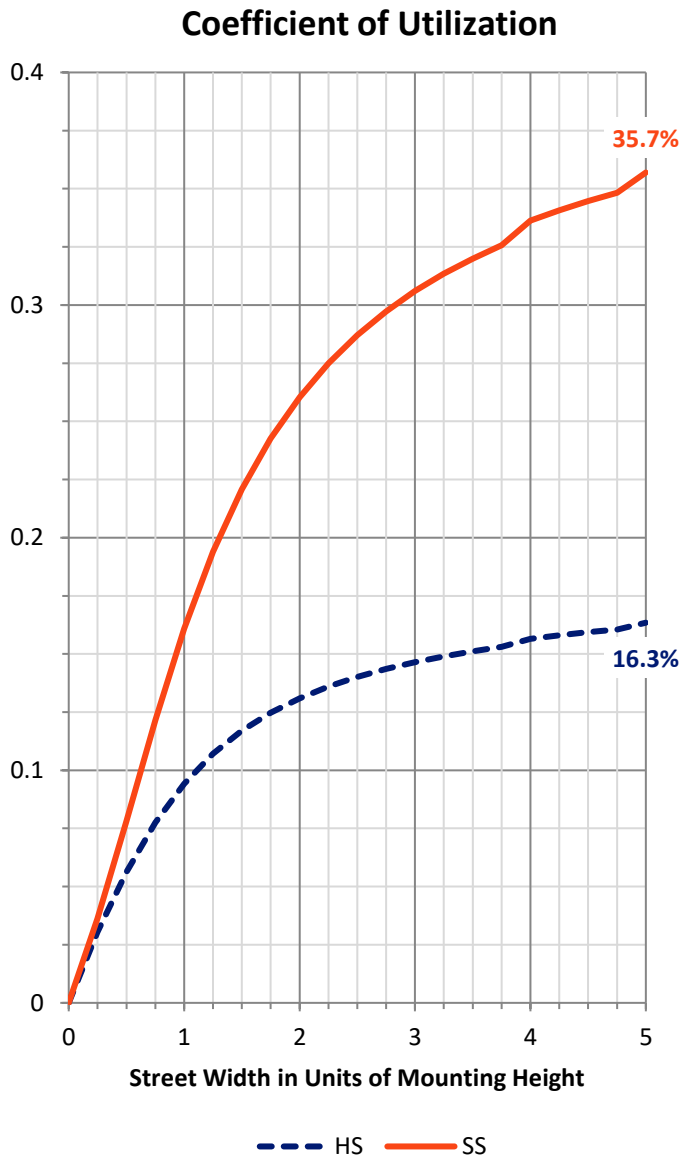
REPORT NUMBER: P1223915
CATALOG NUMBER: FFX-CLB-90-750-U-VM9-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2583.3	1976.8	4560.1
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	5842.5	3935.1	9777.6
	% Fixture	40.7	27.4	68.2
Total	Lumens	8425.7	5911.9	14337.7
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.3	0.1
10°-20°	121.7	0.8
20°-30°	331.6	2.3
30°-40°	657.1	4.6
40°-50°	1025.8	7.2
50°-60°	1344.5	9.4
60°-70°	1568.9	10.9
70°-80°	1683.5	11.7
80°-90°	1672.3	11.7
90°-100°	1551.5	10.8
100°-110°	1351.1	9.4
110°-120°	1093.2	7.6
120°-130°	804.7	5.6
130°-140°	532.2	3.7
140°-150°	314.8	2.2
150°-160°	165.5	1.2
160°-170°	76.7	0.5
170°-180°	22.1	0.2
0°-90°	8425.7	58.8
0°-180°	14337.7	100.0



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

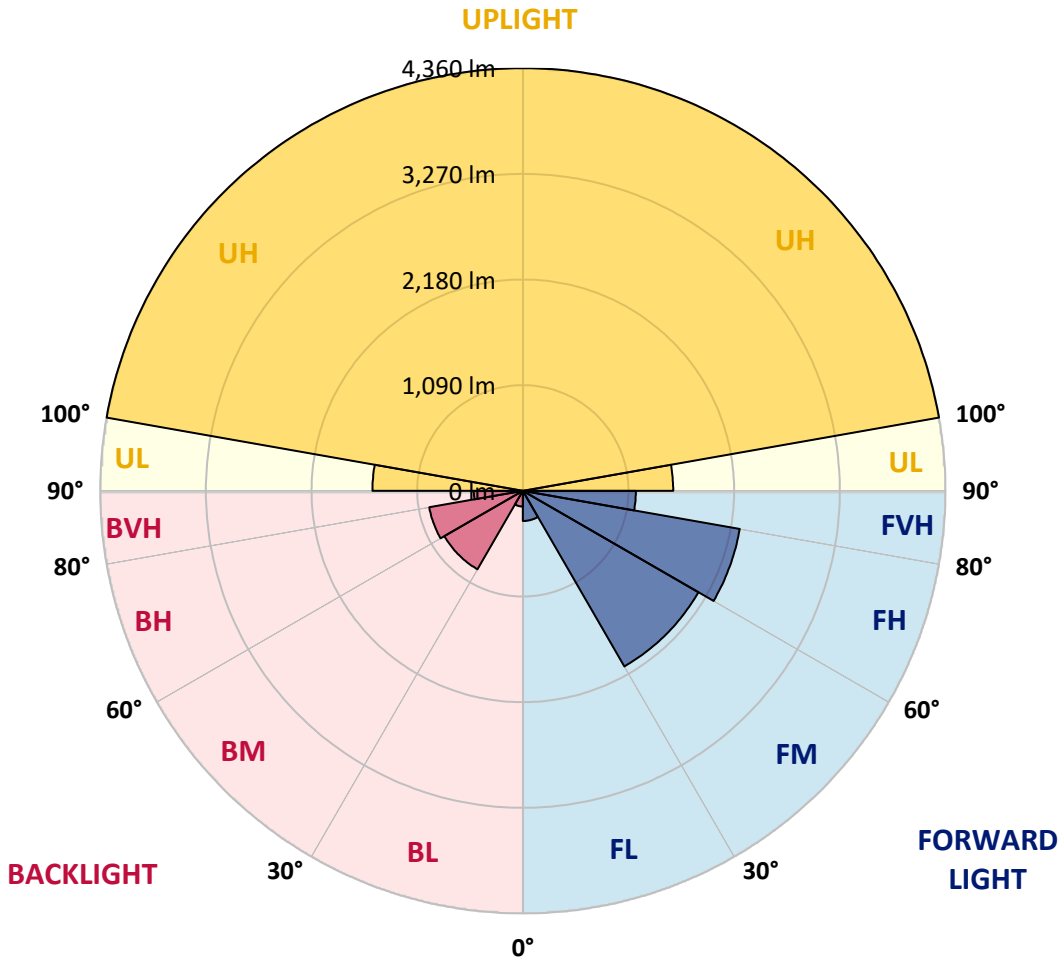
Scaled Data Report

REPORT NUMBER: P1223915
CATALOG NUMBER: FFX-CLB-90-750-U-VM9-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	311.4	2.2			
FM	(30°-60°)	2092.5	14.6			
FH	(60°-80°)	2272.6	15.9			G2/5000
FVH	(80°-90°)	1165.9	8.1			G5
BL	(0°-30°)	162.2	1.1	B1/500		
BM	(30°-60°)	934.8	6.5	B1/1000		
BH	(60°-80°)	979.8	6.8	B2/1000		G2/1000
BVH	(80°-90°)	506.4	3.5			G4/750
UL	(90°-100°)	1551.5	10.8		U5	
UH	(100°-180°)	4360.4	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: P1223915
CATALOG NUMBER: FFX-CLB-90-750-U-VM9-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7
2.5°	167.4	167.4	170.3	171.2	172.2	172.2	173.2	172.2	168.3	163.5	160.6
5°	228.3	226.4	225.4	226.4	226.4	222.5	216.7	206.1	198.3	185.7	180.9
7.5°	305.7	303.8	300.9	298.0	298.0	288.3	278.6	269.9	256.4	238.9	233.1
10°	395.7	391.8	387.9	382.1	375.3	366.6	354.1	339.5	321.2	302.8	291.2
12.5°	483.7	482.7	480.8	472.1	459.5	451.8	438.2	417.9	394.7	369.5	359.9
15°	585.3	580.4	577.5	570.8	563.0	547.5	525.3	505.9	478.8	444.0	432.4
17.5°	679.1	677.2	671.4	669.4	656.8	640.4	615.2	586.2	553.3	521.4	504.0
20°	781.6	786.5	779.7	773.9	751.6	735.2	712.0	683.9	644.3	598.8	580.4
22.5°	895.8	900.6	890.0	890.0	871.6	844.5	811.6	778.7	729.4	682.0	658.8
25°	1028.3	1030.3	1013.8	1007.0	993.5	966.4	926.7	888.0	831.0	771.0	743.9
27.5°	1154.1	1157.9	1148.3	1139.6	1117.3	1091.2	1047.7	1002.2	937.4	865.8	835.8
30°	1296.3	1288.5	1284.7	1269.2	1246.0	1218.9	1170.5	1120.2	1045.7	961.6	924.8
32.5°	1422.0	1416.2	1419.1	1406.6	1372.7	1342.7	1297.2	1236.3	1149.2	1061.2	1019.6
35°	1551.7	1554.6	1550.7	1537.2	1516.8	1477.2	1415.3	1346.6	1259.5	1156.0	1111.5
37.5°	1684.2	1677.4	1672.6	1661.0	1640.7	1596.2	1535.2	1457.8	1357.2	1247.9	1198.6
40°	1798.3	1803.2	1797.4	1778.0	1759.7	1710.3	1643.6	1555.5	1452.0	1335.0	1277.9
42.5°	1906.7	1904.8	1899.9	1889.3	1864.1	1811.9	1746.1	1656.1	1539.1	1409.5	1349.5
45°	1993.8	1995.7	1995.7	1980.2	1957.0	1909.6	1834.1	1742.2	1617.4	1481.0	1418.2
47.5°	2077.0	2079.9	2077.9	2071.1	2046.0	1989.9	1913.5	1818.7	1686.1	1545.9	1475.2
50°	2150.5	2150.5	2149.5	2143.7	2119.5	2065.3	1987.0	1885.4	1748.0	1600.0	1530.4
52.5°	2211.4	2210.4	2211.4	2204.6	2179.5	2130.2	2048.9	1940.6	1803.2	1645.5	1577.8
55°	2259.8	2256.9	2263.7	2260.8	2238.5	2183.4	2097.3	1991.8	1849.6	1689.0	1617.4
57.5°	2298.5	2297.5	2306.2	2303.3	2281.1	2225.9	2140.8	2033.4	1888.3	1724.8	1646.5
60°	2330.4	2328.5	2340.1	2340.1	2317.8	2262.7	2178.5	2065.3	1919.3	1752.9	1673.6
62.5°	2352.7	2353.6	2364.3	2368.1	2348.8	2292.7	2204.6	2093.4	1944.4	1775.1	1694.8
65°	2368.1	2370.1	2382.6	2390.4	2371.0	2315.9	2225.0	2113.7	1964.7	1793.5	1711.3
67.5°	2377.8	2378.8	2396.2	2403.9	2388.4	2330.4	2242.4	2128.2	1978.3	1805.1	1723.9
70°	2381.7	2382.6	2402.0	2413.6	2398.1	2339.1	2250.1	2136.0	1987.0	1812.9	1730.6
72.5°	2378.8	2380.7	2401.0	2416.5	2401.0	2343.0	2253.0	2139.8	1988.9	1821.6	1732.6
75°	2369.1	2371.0	2394.2	2409.7	2398.1	2338.1	2248.2	2136.0	1986.0	1813.8	1729.7
77.5°	2352.7	2355.6	2379.7	2399.1	2385.5	2328.5	2238.5	2125.3	1975.4	1804.2	1719.0
80°	2328.5	2329.4	2356.5	2375.9	2366.2	2309.1	2219.2	2106.9	1958.0	1787.7	1704.5
82.5°	2297.5	2301.4	2327.5	2348.8	2340.1	2281.1	2194.0	2083.7	1935.7	1767.4	1683.2
85°	2264.6	2268.5	2292.7	2315.9	2305.3	2250.1	2163.0	2053.7	1905.7	1739.3	1659.0
87.5°	2225.0	2227.9	2251.1	2275.3	2265.6	2210.4	2126.3	2018.9	1874.8	1713.2	1631.0
90°	2181.4	2184.3	2206.6	2229.8	2217.2	2165.0	2082.8	1977.3	1837.0	1678.4	1599.1
92.5°	2135.0	2136.0	2161.1	2173.7	2166.9	2120.5	2039.2	1937.6	1797.4	1642.6	1568.1
95°	2082.8	2082.8	2106.9	2120.5	2108.9	2065.3	1988.9	1887.3	1750.9	1605.8	1529.4
97.5°	2025.7	2027.6	2046.0	2059.5	2055.7	2010.2	1937.6	1840.9	1710.3	1566.2	1493.6
100°	1966.7	1966.7	1983.1	1994.7	1986.0	1949.3	1880.6	1791.6	1659.0	1523.6	1453.0
102.5°	1904.8	1903.8	1917.3	1926.0	1920.2	1886.4	1822.5	1734.5	1610.7	1479.1	1412.4
105°	1836.1	1833.2	1846.7	1856.4	1850.6	1820.6	1766.4	1681.3	1561.3	1435.6	1371.7
107.5°	1762.6	1767.4	1775.1	1780.9	1776.1	1750.0	1698.7	1623.3	1510.1	1390.1	1328.2
110°	1692.9	1695.8	1696.8	1703.5	1702.6	1681.3	1637.8	1562.3	1454.9	1341.7	1281.8

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

Scaled Data Report

REPORT NUMBER: P1223915
CATALOG NUMBER: FFX-CLB-90-750-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1622.3	1621.3	1622.3	*1627.1*	1627.1	1605.8	1564.2	1498.5	1400.8	1290.5	1235.3
115°	1545.9	1542.0	1543.0	*1543.9*	1547.8	1531.4	1495.6	1433.6	1337.9	1240.2	1186.0
117.5°	1466.5	1465.6	1463.6	*1460.7*	1460.7	1454.0	1423.0	1367.9	1276.9	1180.2	1134.7
120°	1391.1	1387.2	1382.4	*1379.5*	1381.4	1373.7	1348.5	1293.4	1213.1	1126.0	1080.6
122.5°	1304.0	1306.9	1304.0	*1300.1*	1301.1	1293.4	1272.1	1225.7	1145.4	1062.2	1021.5
125°	1229.5	1228.6	1224.7	*1218.9*	1218.9	1216.0	1192.8	1152.1	1080.6	1001.2	963.5
127.5°	1146.3	1147.3	1143.4	*1140.5*	1142.5	1136.7	1121.2	1074.8	1011.9	941.3	904.5
130°	1068.0	1067.0	1066.0	*1060.2*	1065.1	1054.4	1040.9	1002.2	942.2	882.2	848.4
132.5°	994.5	988.7	984.8	*983.8*	982.9	981.9	965.4	931.6	881.3	821.3	788.4
135°	920.9	916.1	911.3	*909.3*	911.3	906.4	891.9	863.9	817.4	759.4	734.2
137.5°	845.5	843.5	843.5	*838.7*	838.7	834.8	822.3	799.1	755.5	705.2	680.1
140°	777.8	773.9	772.0	*769.1*	772.0	768.1	754.6	732.3	695.5	652.0	627.8
142.5°	708.1	704.2	707.1	*704.2*	701.3	699.4	687.8	670.4	638.5	598.8	578.5
145°	643.3	643.3	641.4	*642.3*	640.4	638.5	626.9	610.4	583.3	546.6	532.1
147.5°	582.4	584.3	582.4	*584.3*	584.3	576.6	568.8	555.3	530.1	501.1	485.6
150°	525.3	528.2	526.3	*525.3*	526.3	522.4	511.7	504.0	481.8	456.6	441.1
152.5°	476.9	478.8	478.8	*476.9*	475.9	474.0	463.4	452.7	435.3	416.0	405.3
155°	431.4	431.4	432.4	*433.4*	430.5	424.7	420.8	412.1	396.6	379.2	368.6
157.5°	393.7	392.8	393.7	*392.8*	391.8	386.0	380.2	373.4	360.8	345.4	339.5
160°	357.9	357.9	358.9	*357.9*	354.1	351.2	346.3	340.5	329.9	319.2	311.5
162.5°	328.9	328.9	328.9	*327.9*	324.1	323.1	317.3	311.5	302.8	294.1	288.3
165°	303.8	303.8	302.8	*302.8*	300.9	298.0	293.1	288.3	280.5	273.8	269.9
167.5°	283.4	282.5	281.5	*280.5*	279.6	276.7	271.8	268.9	263.1	257.3	254.4
170°	266.0	266.0	265.1	*265.1*	263.1	260.2	257.3	253.5	249.6	243.8	241.8
172.5°	250.5	250.5	250.5	*250.5*	247.6	246.7	243.8	240.9	238.0	234.1	232.2
175°	238.9	238.9	238.9	*238.9*	237.0	235.1	234.1	231.2	229.3	226.4	225.4
177.5°	230.2	230.2	230.2	*230.2*	229.3	227.3	226.4	224.4	222.5	221.5	220.6
180°	222.5	222.5	222.5	*222.5*	222.5	222.5	222.5	222.5	222.5	222.5	222.5

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

Scaled Data Report

REPORT NUMBER: P1223915
CATALOG NUMBER: FFX-CLB-90-750-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7
2.5°	157.7	151.9	144.1	135.4	128.7	120.0	111.2	106.4	103.5	101.6
5°	176.1	163.5	151.9	139.3	129.6	120.9	111.2	103.5	99.6	98.7
7.5°	224.4	207.0	189.6	174.1	160.6	147.0	137.4	129.6	124.8	124.8
10°	282.5	258.3	238.0	217.7	199.3	182.8	169.3	161.6	155.7	153.8
12.5°	348.3	319.2	291.2	268.0	240.9	222.5	206.1	195.4	188.6	187.7
15°	416.9	386.9	351.2	319.2	289.2	260.2	240.9	225.4	219.6	219.6
17.5°	482.7	444.0	404.4	365.7	328.9	295.0	268.0	250.5	241.8	239.9
20°	553.3	506.9	455.6	410.2	364.7	325.0	293.1	270.9	259.3	258.3
22.5°	625.9	571.7	516.6	456.6	404.4	357.0	319.2	293.1	278.6	276.7
25°	709.1	643.3	577.5	511.7	448.9	392.8	348.3	316.3	299.9	298.0
27.5°	801.0	718.8	640.4	564.9	491.4	429.5	376.3	339.5	319.2	318.3
30°	885.1	794.2	705.2	618.2	537.9	463.4	404.4	361.8	339.5	336.6
32.5°	969.3	868.7	768.1	672.3	579.5	499.2	432.4	383.1	357.0	355.0
35°	1056.4	942.2	832.9	722.6	625.9	535.0	458.5	404.4	376.3	372.4
37.5°	1137.6	1014.8	894.8	777.8	666.5	567.8	483.7	424.7	392.8	387.9
40°	1212.1	1079.6	950.9	825.2	705.2	598.8	507.9	442.1	406.3	402.4
42.5°	1280.8	1140.5	1002.2	866.8	741.0	625.9	528.2	456.6	416.9	413.1
45°	1345.6	1197.6	1049.6	905.5	772.0	651.0	547.5	470.1	427.6	421.8
47.5°	1400.8	1246.0	1087.3	938.4	800.0	672.3	562.0	479.8	435.3	429.5
50°	1450.1	1286.6	1123.1	970.3	824.2	691.7	575.6	487.6	439.2	433.4
52.5°	1489.8	1324.3	1154.1	995.4	846.5	707.1	585.3	494.3	443.1	437.3
55°	1528.4	1355.3	1181.2	1017.7	862.9	721.7	593.0	498.2	445.0	438.2
57.5°	1560.4	1381.4	1203.4	1035.1	879.3	731.3	599.8	500.1	445.0	437.3
60°	1583.6	1401.7	1220.8	1049.6	890.0	740.0	604.6	501.1	444.0	436.3
62.5°	1603.9	1418.2	1233.4	1062.2	900.6	746.8	609.4	502.1	442.1	434.4
65°	1619.4	1431.7	1244.0	1069.9	907.4	752.6	610.4	501.1	439.2	431.4
67.5°	1632.0	1440.4	1250.8	1076.7	912.2	755.5	612.3	500.1	437.3	428.5
70°	1636.8	1444.3	1254.7	1079.6	915.1	757.5	612.3	498.2	433.4	424.7
72.5°	*1635.8*	*1444.3*	*1255.7*	*1080.6*	*916.1*	*758.4*	*611.4*	*495.3*	*430.5*	*421.8*
75°	1632.9	1441.4	1253.7	1079.6	915.1	757.5	610.4	493.4	427.6	419.8
77.5°	1625.2	1433.6	1246.9	1075.7	913.2	754.6	607.5	491.4	425.6	416.0
80°	1611.6	1422.0	1237.3	1067.0	906.4	751.6	604.6	487.6	421.8	414.0
82.5°	1592.3	1407.5	1225.7	1059.3	900.6	745.8	600.7	485.6	419.8	412.1
85°	1570.0	1389.1	1210.2	1047.7	891.9	740.0	595.9	481.8	417.9	410.2
87.5°	1543.0	1365.0	1194.7	1034.1	881.3	732.3	591.1	478.8	416.9	409.2
90°	1514.9	1342.7	1175.4	1021.5	872.6	724.6	586.2	476.9	416.0	409.2
92.5°	1484.0	1318.5	1157.0	1005.1	861.0	716.8	581.4	475.0	416.0	409.2
95°	1453.0	1293.4	1138.6	990.6	849.4	709.1	576.6	474.0	417.9	411.1
97.5°	1416.2	1264.4	1116.3	975.1	835.8	700.4	572.7	473.0	418.9	413.1
100°	1381.4	1235.3	1093.1	957.7	823.2	690.7	566.9	472.1	420.8	414.0
102.5°	1343.7	1207.3	1069.9	939.3	809.7	680.1	562.0	471.1	422.7	416.9
105°	1306.0	1173.4	1044.8	918.0	793.2	669.4	556.2	470.1	423.7	417.9
107.5°	1264.4	1141.5	1016.7	897.7	776.8	657.8	548.5	468.2	424.7	418.9
110°	1221.8	1103.8	987.7	874.5	757.5	643.3	540.8	463.4	423.7	418.9

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

Scaled Data Report

REPORT NUMBER: P1223915
CATALOG NUMBER: FFX-CLB-90-750-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1181.2	1068.0	955.8	848.4	737.1	628.8	530.1	458.5	420.8	416.9
115°	1130.9	1027.4	921.9	820.3	713.9	610.4	518.5	451.8	416.9	412.1
117.5°	1084.4	984.8	886.1	790.3	689.7	592.0	505.0	443.1	410.2	406.3
120°	1032.2	939.3	847.4	756.5	662.7	570.8	488.5	432.4	401.5	398.6
122.5°	980.9	894.8	807.8	721.7	633.6	546.6	472.1	418.9	391.8	388.9
125°	926.7	847.4	766.2	684.9	601.7	521.4	452.7	403.4	379.2	376.3
127.5°	871.6	798.1	721.7	646.2	570.8	496.3	432.4	387.9	364.7	363.7
130°	813.6	747.8	678.1	608.5	538.8	470.1	411.1	371.5	350.2	348.3
132.5°	761.3	700.4	635.6	569.8	504.0	444.0	390.8	354.1	335.7	333.7
135°	710.1	649.1	593.0	535.0	474.0	417.9	370.5	337.6	321.2	319.2
137.5°	657.8	604.6	552.4	498.2	443.1	392.8	351.2	322.1	307.6	305.7
140°	605.6	561.1	513.7	462.4	415.0	369.5	331.8	307.6	294.1	292.1
142.5°	558.2	515.6	473.0	428.5	386.0	347.3	314.4	291.2	279.6	278.6
145°	511.7	475.0	436.3	396.6	359.9	327.9	298.0	278.6	268.9	268.0
147.5°	470.1	437.3	402.4	368.6	336.6	306.7	282.5	266.0	256.4	255.4
150°	428.5	399.5	370.5	341.5	314.4	289.2	268.0	254.4	247.6	245.7
152.5°	391.8	368.6	342.5	318.3	294.1	272.8	256.4	243.8	238.0	237.0
155°	358.9	339.5	318.3	297.0	277.6	260.2	245.7	236.0	231.2	231.2
157.5°	330.8	314.4	297.0	279.6	264.1	249.6	238.0	230.2	226.4	225.4
160°	305.7	291.2	277.6	265.1	250.5	239.9	231.2	224.4	221.5	220.6
162.5°	282.5	272.8	262.2	251.5	240.9	232.2	225.4	220.6	218.6	218.6
165°	266.0	257.3	248.6	240.9	233.1	227.3	221.5	218.6	216.7	215.7
167.5°	251.5	244.7	238.9	233.1	227.3	222.5	218.6	216.7	214.8	214.8
170°	239.9	235.1	231.2	227.3	223.5	219.6	217.7	215.7	214.8	214.8
172.5°	230.2	227.3	224.4	222.5	219.6	217.7	215.7	214.8	214.8	214.8
175°	224.4	222.5	220.6	219.6	218.6	217.7	216.7	215.7	215.7	215.7
177.5°	220.6	219.6	219.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6
180°	222.5	222.5	222.5	222.5	222.5	222.5	222.5	222.5	222.5	222.5

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

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-5

Test Date: 03/25/2025

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

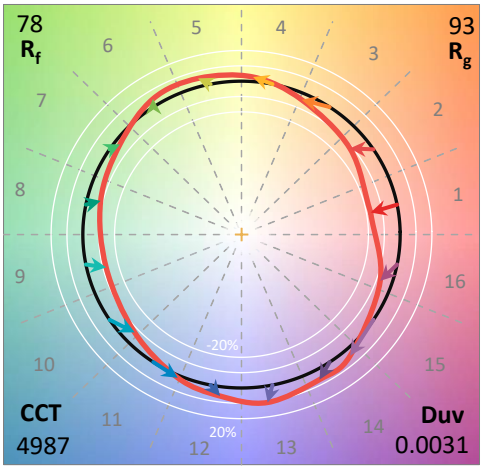
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-5
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-100-750-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

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

Rf:	78.3
Rg:	93.4



Test Conditions

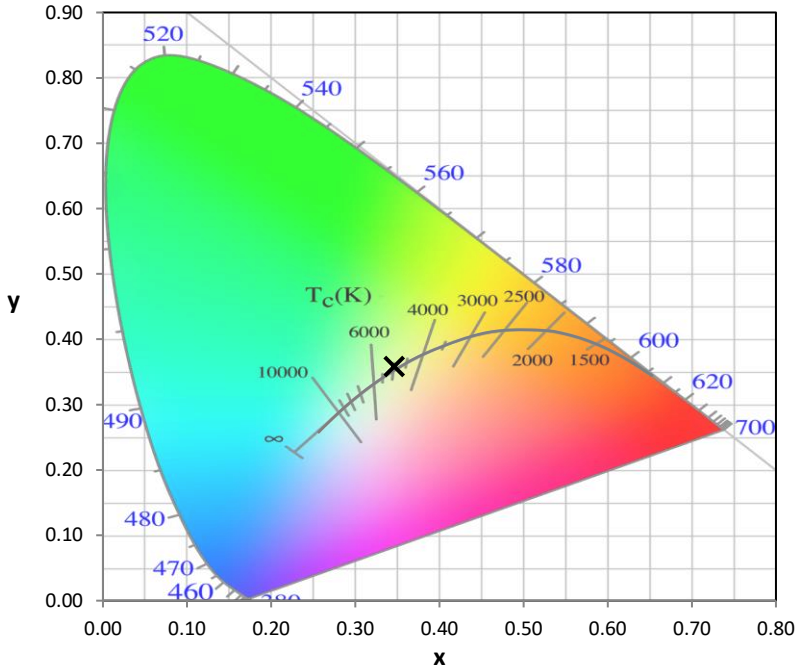
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

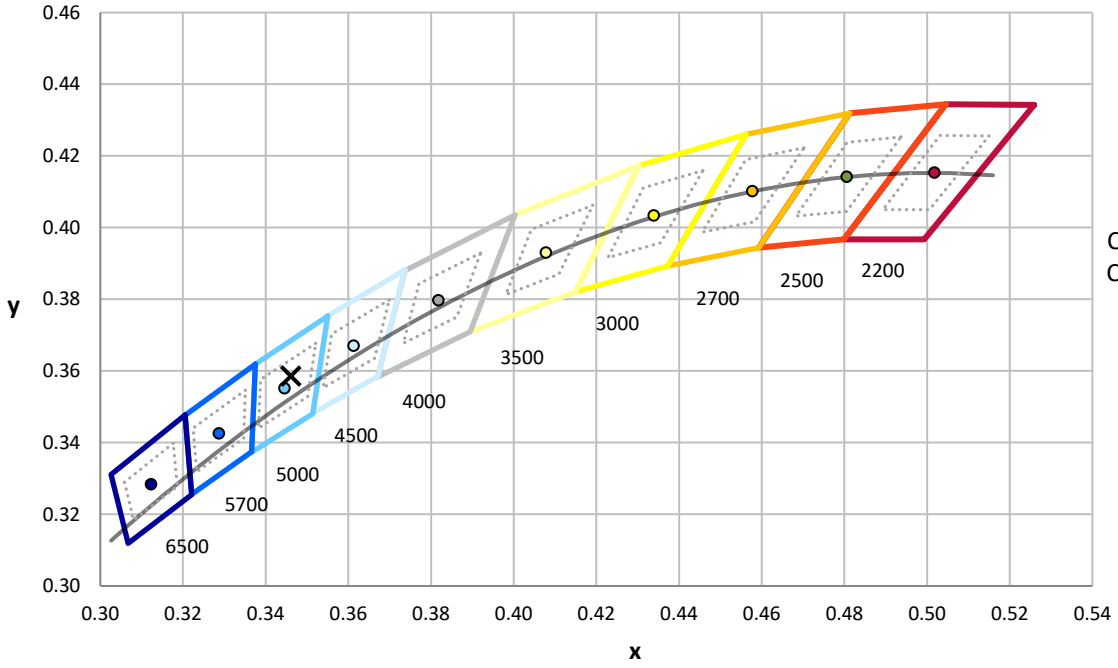
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-5

CIE 1931 Chromaticity Diagram



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

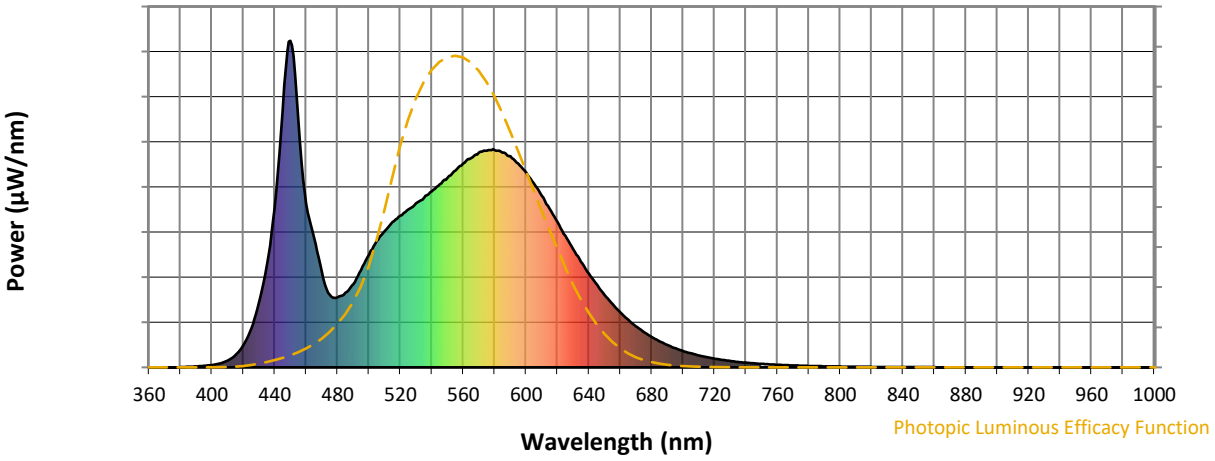


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

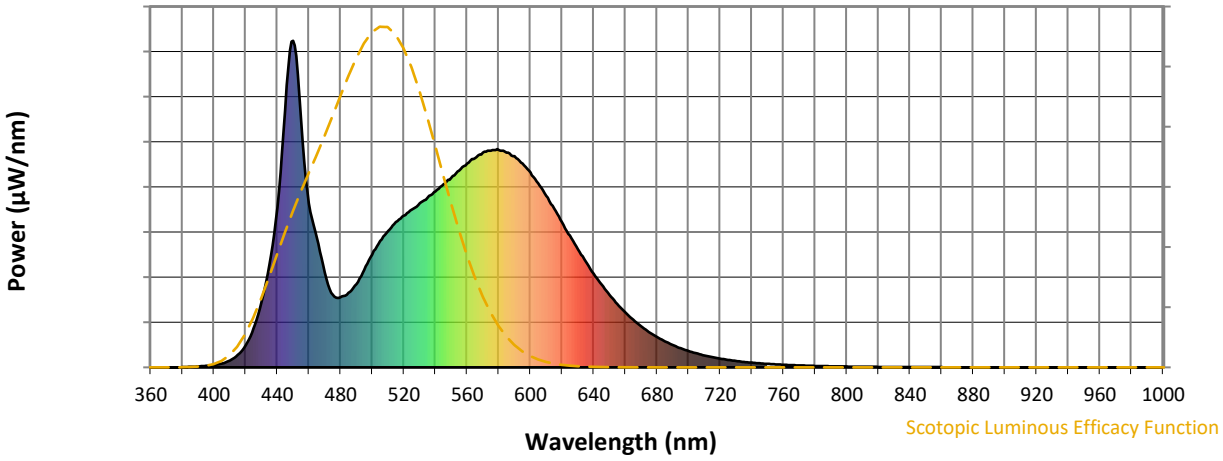


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Scotopic Flux vs. Wavelength

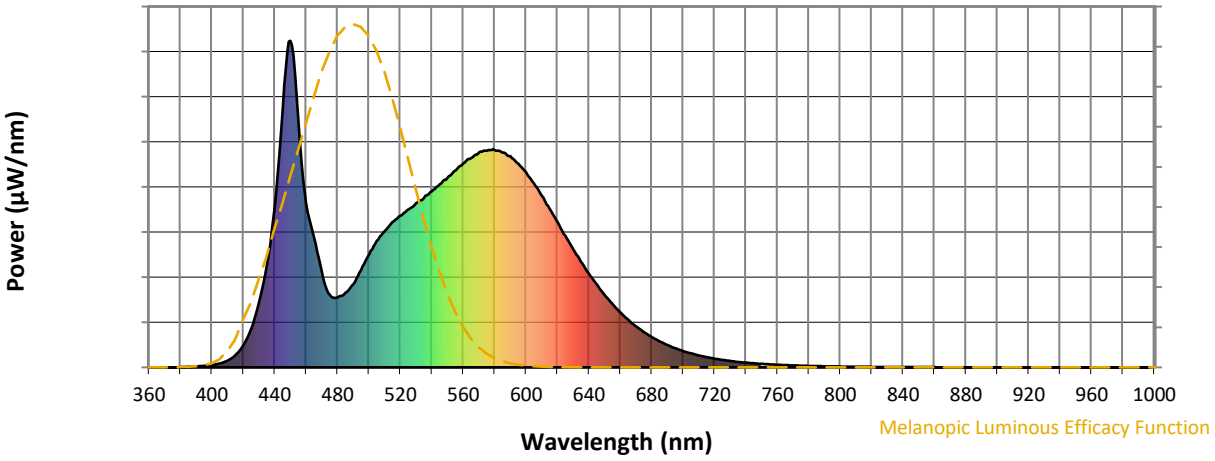


Scotopic Lumens: NR **S/P: 1.87**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Melanopic Flux vs. Wavelength



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

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

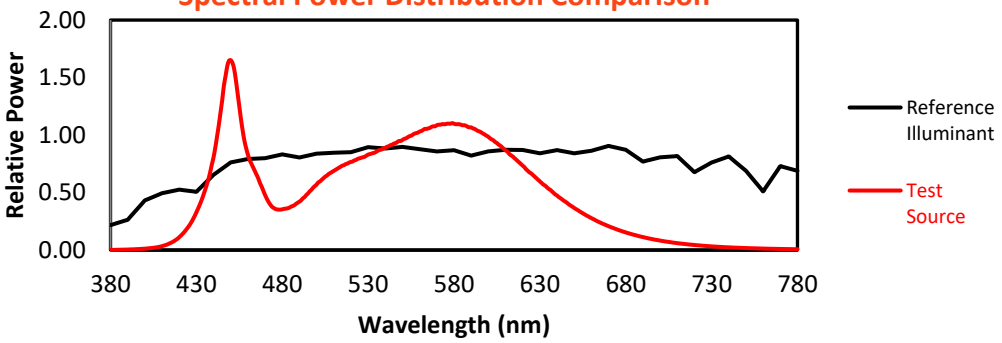
REPORT NUMBER: SP1-2501-332-5

TM-30-18

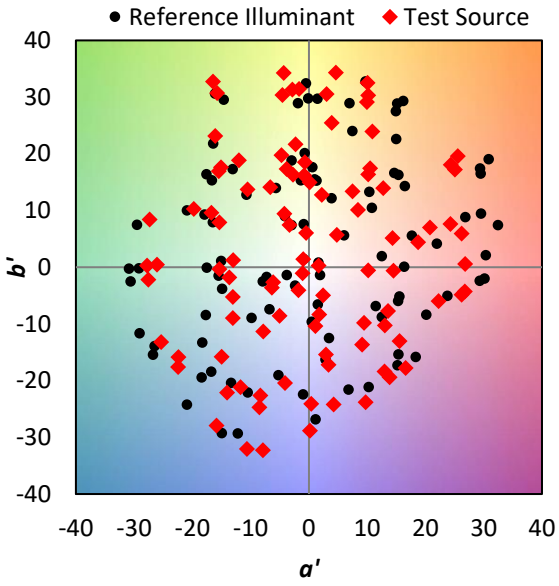
Summary

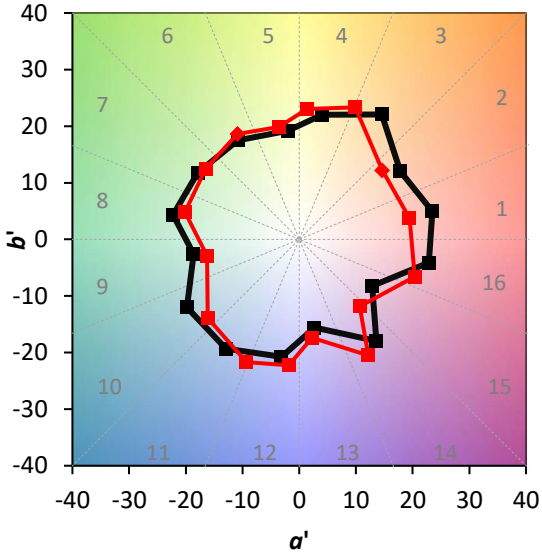
R_f = 78.3
R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

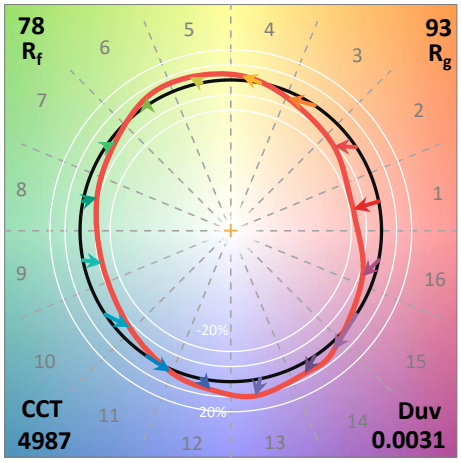
Spectral Power Distribution Comparison

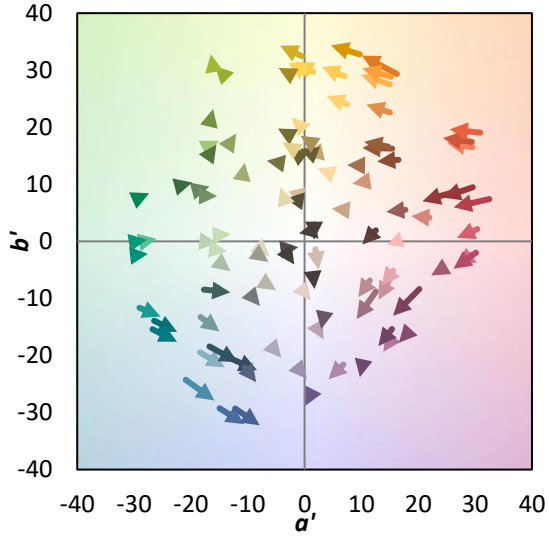


Color Vector Graphics







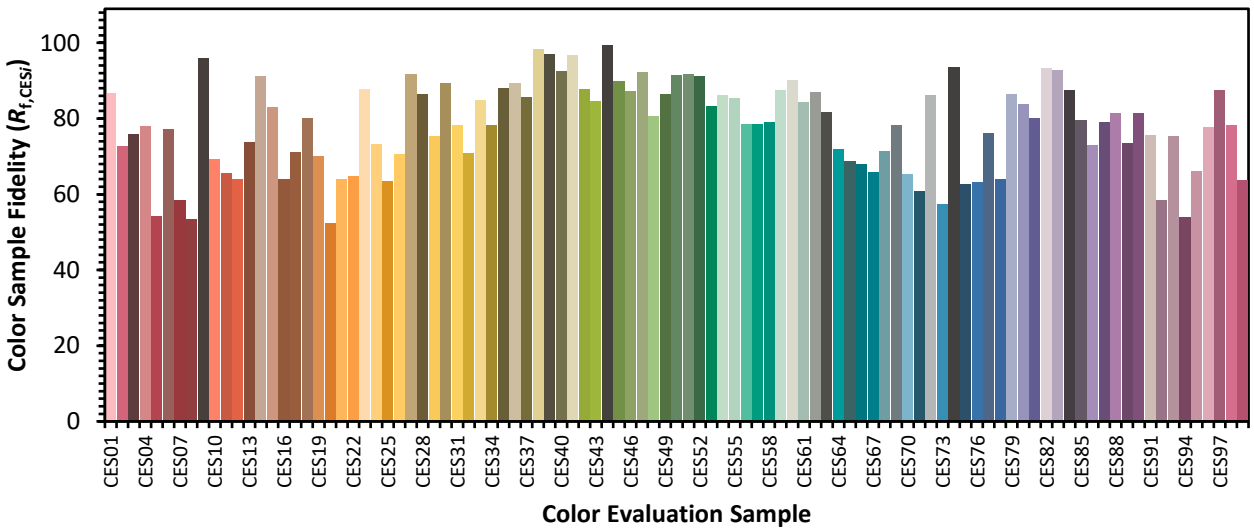


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

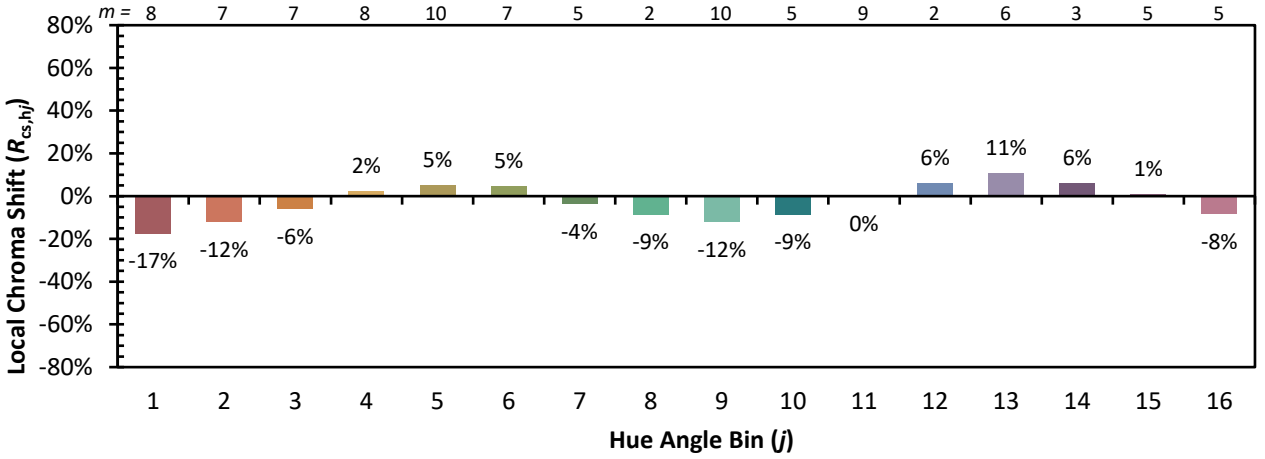
CES01 = 85	CES26 = 71	CES51 = 92	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82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

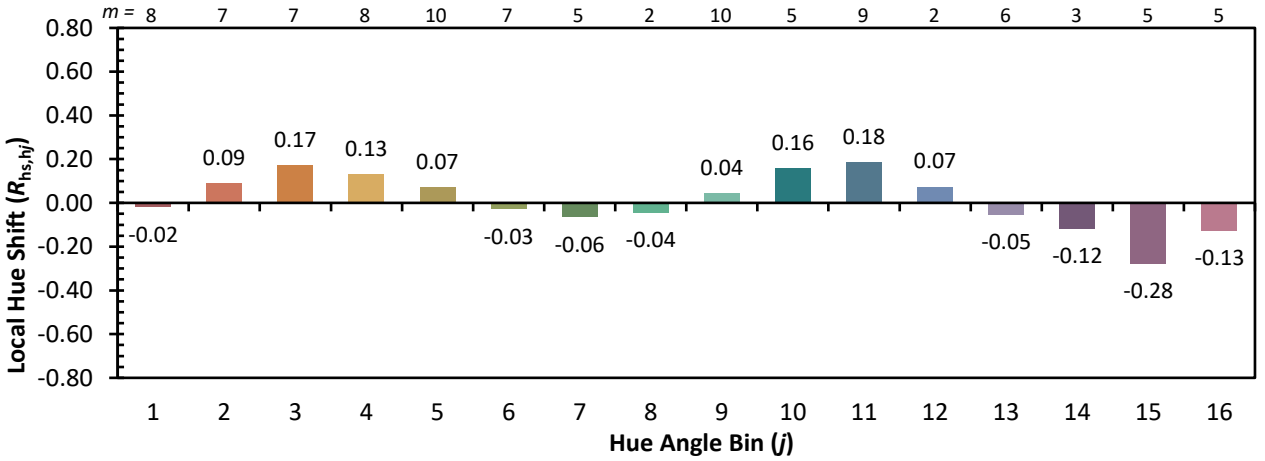


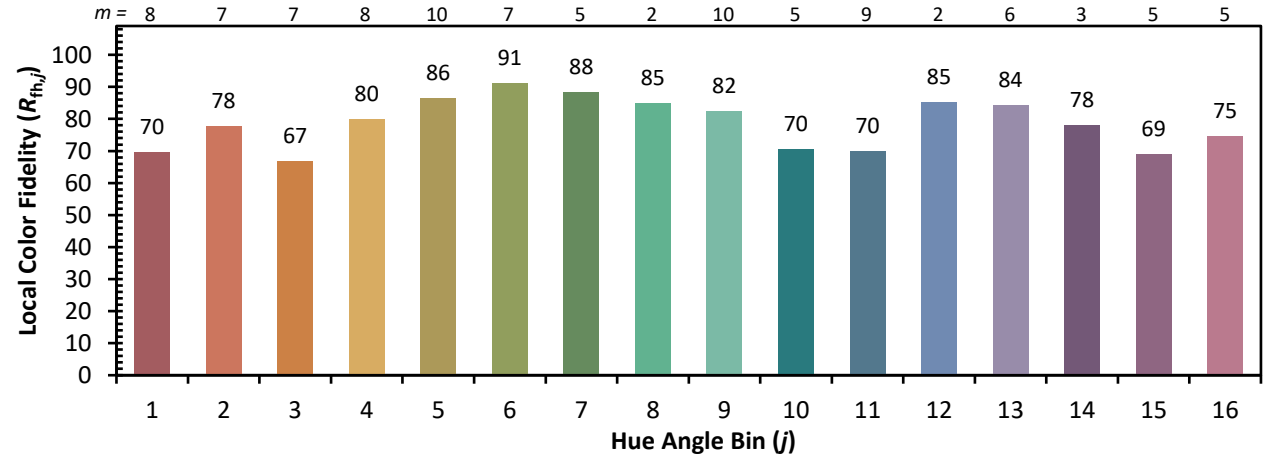
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



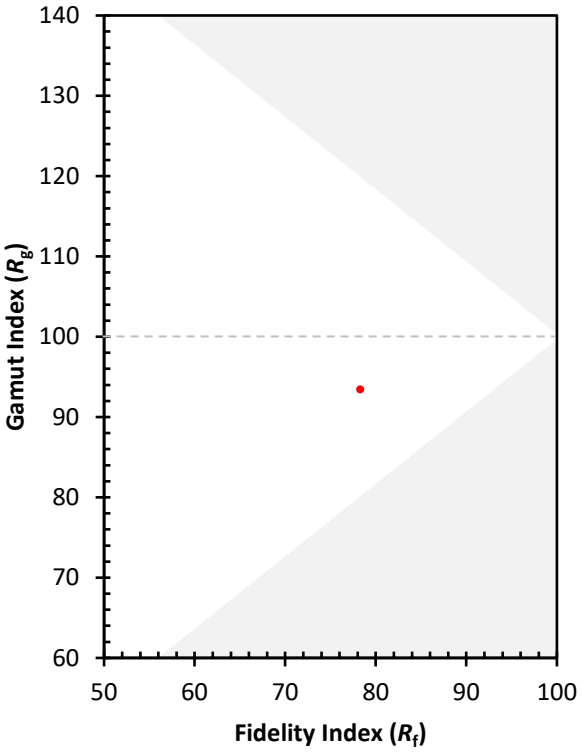


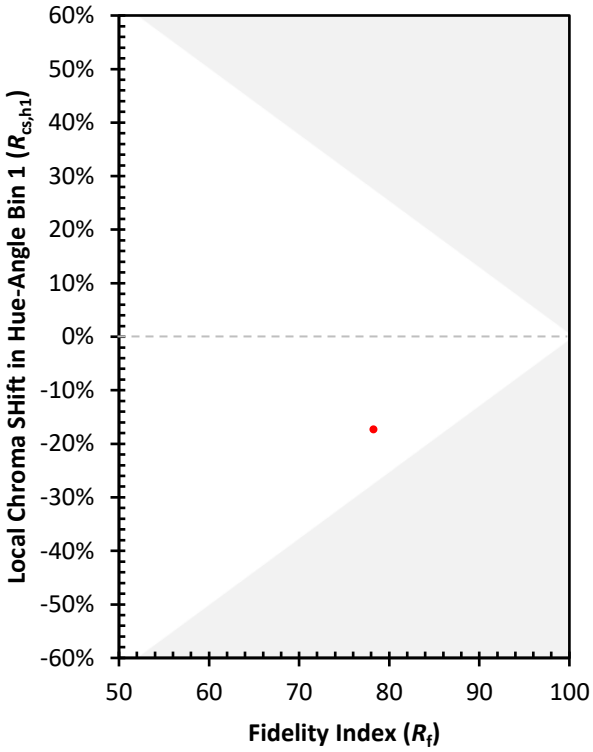


REPORT NUMBER: SP1-2501-332-5

TM-30-18

Measure Comparisons





(END OF REPORT)