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: P1223962

Luminaire Tested: **FFX-CLB-70-750-U-VM9-T4-HSS**

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:	P1223962
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-750-U-VM9-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10286.4 lumens
Efficiency:	N/A
Efficacy:	144.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G5

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

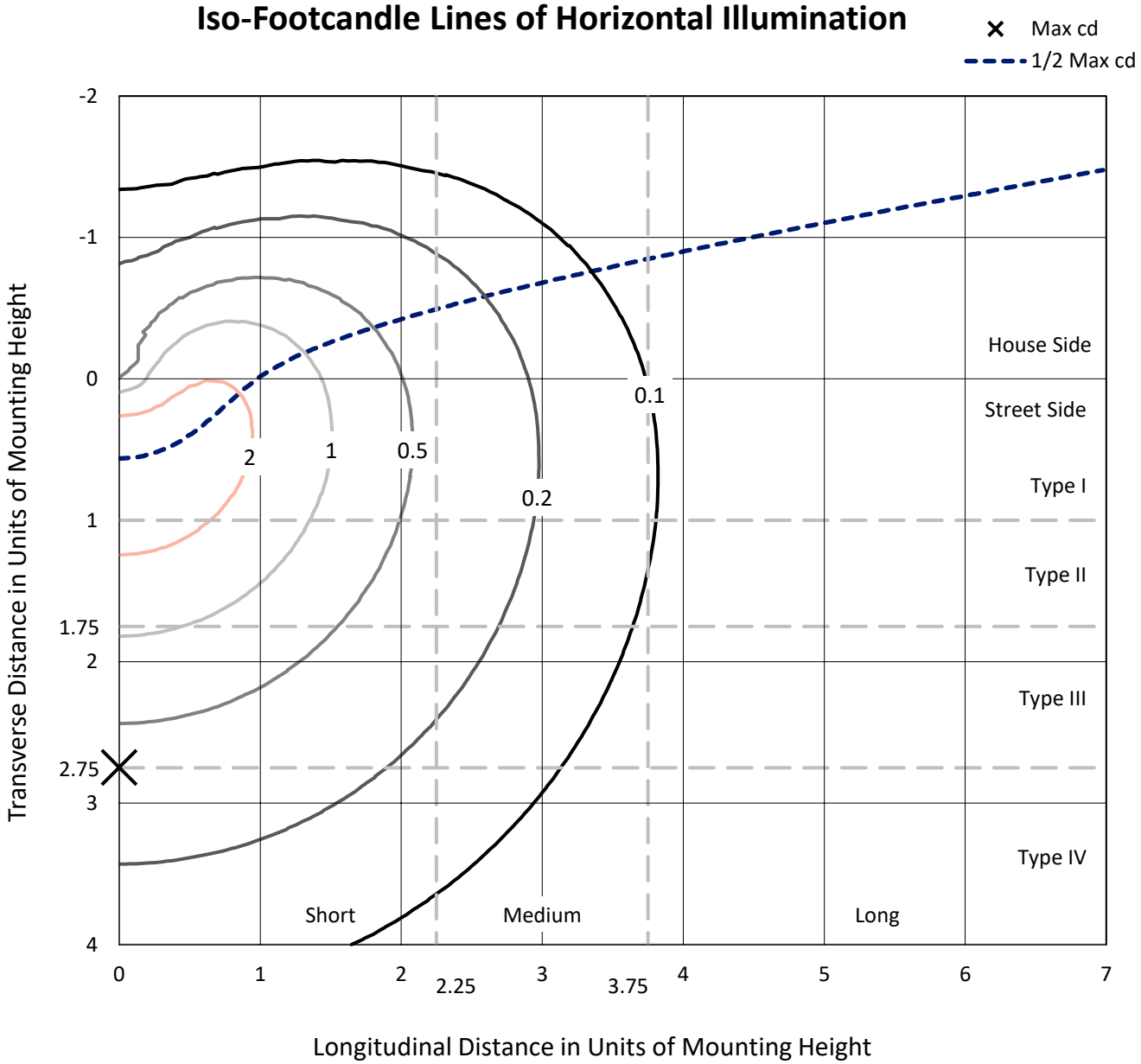


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223962
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



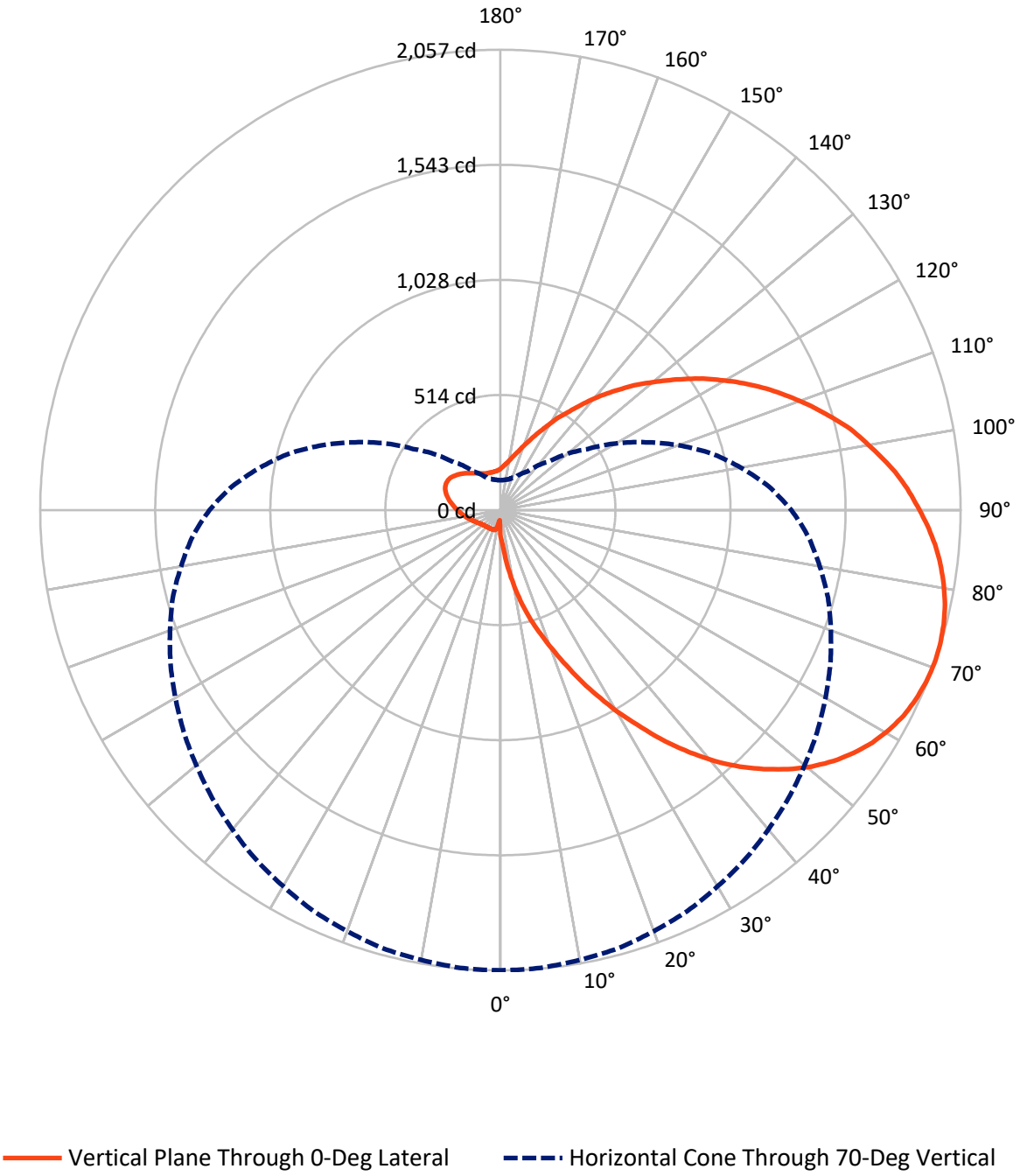
Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1223962
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

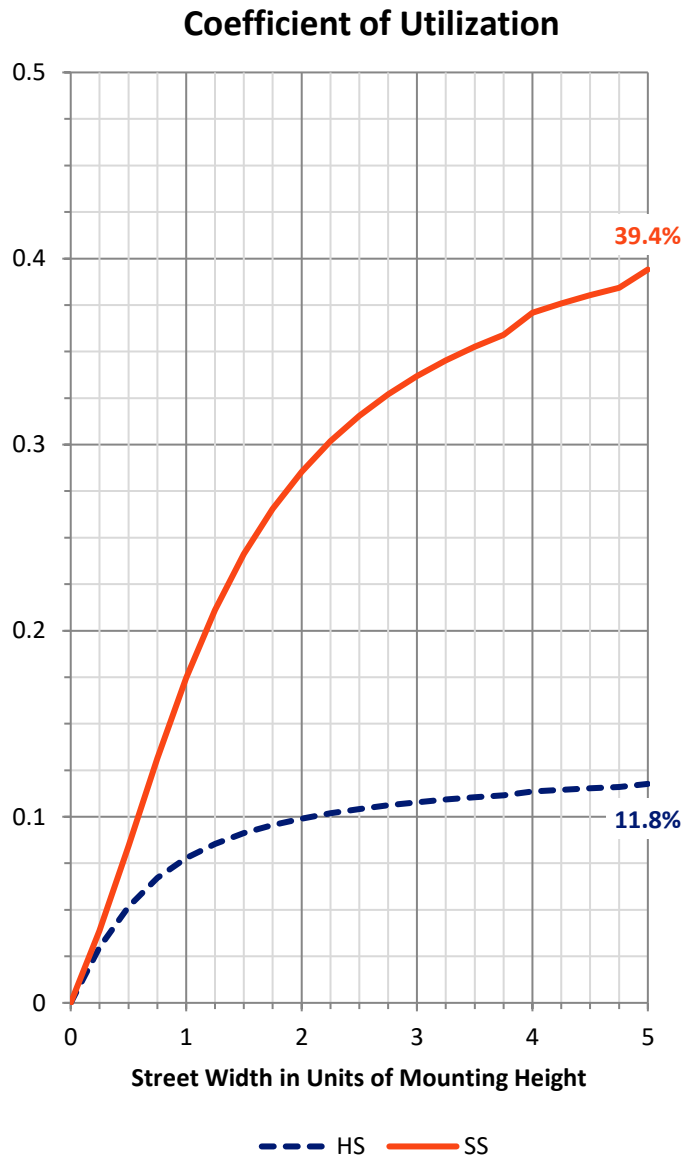
REPORT NUMBER: P1223962
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1319.0	1272.6	2591.6
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	4633.1	3061.7	7694.8
	% Fixture	45.0	29.8	74.8
Total	Lumens	5952.1	4334.3	10286.4
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	0.2
10°-20°	89.9	0.9
20°-30°	236.6	2.3
30°-40°	459.6	4.5
40°-50°	716.1	7.0
50°-60°	944.8	9.2
60°-70°	1109.4	10.8
70°-80°	1193.5	11.6
80°-90°	1186.7	11.5
90°-100°	1103.4	10.7
100°-110°	968.7	9.4
110°-120°	796.7	7.7
120°-130°	599.8	5.8
130°-140°	406.5	4.0
140°-150°	246.2	2.4
150°-160°	132.5	1.3
160°-170°	62.4	0.6
170°-180°	18.1	0.2
0°-90°	5952.1	57.9
0°-180°	10286.4	100.0



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

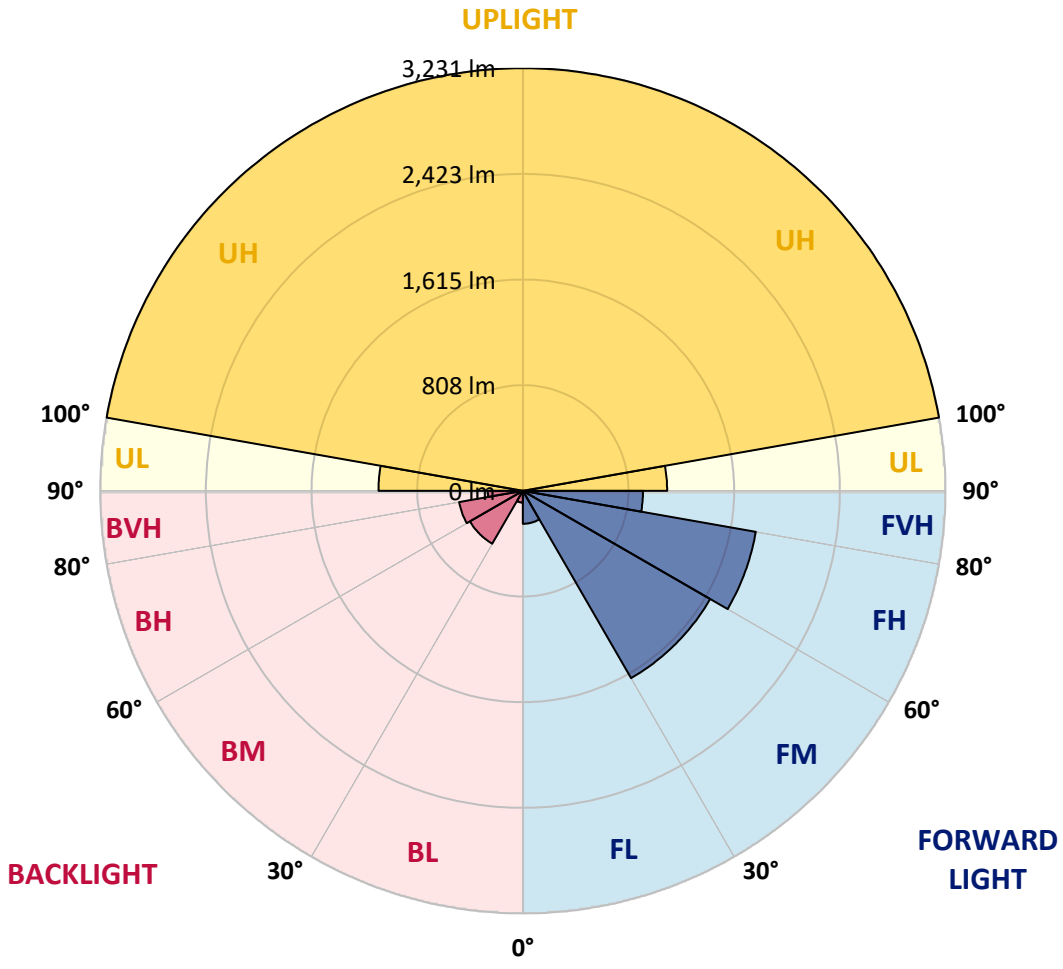
Scaled Data Report

REPORT NUMBER: P1223962
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	252.0	2.4			
FM	(30°-60°)	1653.7	16.1			
FH	(60°-80°)	1808.6	17.6			G2/5000
FVH	(80°-90°)	918.8	8.9			G5
BL	(0°-30°)	90.0	0.9	B0/110		
BM	(30°-60°)	466.8	4.5	B1/1000		
BH	(60°-80°)	494.3	4.8	B1/500		G1/500
BVH	(80°-90°)	267.9	2.6			G3/500
UL	(90°-100°)	1103.4	10.7		U5	
UH	(100°-180°)	3230.9	31.4		U5	

BUG Rating: B1-U5-G5
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1223962
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	*117.7*	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7
2.5°	*143.3*	144.1	143.3	143.3	144.8	143.3	141.8	136.5	130.5	122.9	119.2
5°	*200.6*	200.6	204.4	204.4	200.6	192.3	182.5	169.0	156.9	144.1	135.0
7.5°	*273.8*	275.3	272.3	264.7	260.2	243.6	233.8	216.5	201.4	184.0	175.7
10°	*350.0*	350.7	347.0	340.2	325.8	309.2	294.9	274.6	254.9	232.3	220.2
12.5°	*431.4*	429.9	423.1	408.1	399.8	380.9	362.0	340.9	314.5	286.6	272.3
15°	*509.1*	506.1	503.1	487.3	475.9	457.1	435.2	406.5	375.6	344.7	323.6
17.5°	*583.8*	577.0	572.5	564.9	547.6	531.0	503.1	469.1	436.0	395.2	373.4
20°	*663.7*	665.3	657.7	647.2	628.3	604.2	577.0	540.8	499.3	451.0	424.6
22.5°	*753.5*	753.5	749.0	735.4	715.8	684.9	653.2	615.5	564.2	513.7	481.2
25°	*853.1*	847.8	841.8	824.4	807.8	774.6	736.9	696.2	642.6	581.5	545.3
27.5°	*951.9*	949.6	943.6	924.7	903.6	868.9	831.2	778.4	720.3	648.7	611.0
30°	*1056.7*	1054.5	1048.4	1030.3	999.4	965.5	920.2	863.6	800.3	719.6	678.1
32.5°	*1157.8*	1157.8	1150.2	1131.4	1099.0	1058.2	1010.0	946.6	876.4	793.5	743.7
35°	*1270.2*	1269.4	1255.8	1233.2	1194.0	1158.5	1104.2	1037.9	958.7	863.6	810.8
37.5°	*1373.5*	1369.7	1356.2	1332.0	1295.8	1249.8	1188.7	1115.5	1034.1	933.0	873.4
40°	*1475.3*	1470.8	1458.7	1431.6	1387.8	1335.8	1273.2	1194.7	1102.7	997.9	936.0
42.5°	*1567.4*	1565.8	1548.5	1516.1	1472.3	1413.5	1346.4	1263.4	1171.4	1058.2	992.6
45°	*1651.1*	1651.1	1633.7	1598.3	1548.5	1488.9	1415.0	1329.8	1231.7	1113.3	1043.9
47.5°	*1730.3*	1730.3	1713.7	1672.9	1617.9	1552.3	1476.8	1388.6	1284.5	1163.1	1089.2
50°	*1801.9*	1798.9	1780.1	1734.8	1679.0	1610.3	1531.1	1438.4	1333.5	1207.6	1132.9
52.5°	*1863.8*	1860.0	1838.1	1795.9	1733.3	1660.1	1577.2	1482.9	1373.5	1246.0	1169.9
55°	*1915.8*	1913.6	1892.4	1844.2	1778.5	1705.4	1617.1	1519.1	1411.2	1278.5	1201.5
57.5°	*1961.1*	1957.3	1932.4	1883.4	1817.8	1737.8	1648.8	1551.5	1439.9	1307.9	1227.9
60°	*1995.0*	1991.2	1965.6	1916.6	1850.2	1765.7	1676.7	1577.9	1464.8	1331.3	1249.8
62.5°	*2022.9*	2018.4	1993.5	1941.5	1872.1	1789.1	1697.8	1597.5	1484.4	1350.1	1268.7
65°	*2040.3*	2036.5	2012.4	1960.3	1888.7	1804.9	1713.7	1612.6	1500.2	1364.5	1283.0
67.5°	*2051.6*	2048.6	2023.7	1973.1	1901.5	1816.3	1723.5	1622.4	1510.8	1375.0	1293.6
70°	*2056.9*	*2053.8*	*2028.2*	*1976.9*	*1906.0*	*1820.8*	*1728.0*	*1626.9*	*1516.1*	*1382.6*	*1300.3*
71°	*2056.9*	2053.8	2029.0	1977.7	1906.8	1821.5	1728.8	1627.7	1516.8	1383.3	1301.1
72.5°	*2054.6*	2052.3	2027.4	1975.4	1904.5	1820.0	1726.5	1626.9	1516.8	1384.1	1302.6
75°	*2046.3*	2041.8	2017.6	1967.1	1897.0	1812.5	1719.7	1620.1	1512.3	1381.8	1301.1
77.5°	*2031.2*	2027.4	2002.6	1953.5	1883.4	1798.2	1706.1	1608.8	1503.2	1374.3	1295.1
80°	*2009.3*	2005.6	1981.4	1930.9	1861.5	1779.3	1687.3	1591.5	1487.4	1362.2	1284.5
82.5°	*1981.4*	1978.4	1955.0	1904.5	1835.9	1754.4	1662.4	1568.9	1470.1	1345.6	1269.4
85°	*1948.3*	1944.5	1918.8	1869.1	1803.4	1722.0	1632.2	1541.7	1445.2	1325.2	1251.3
87.5°	*1908.3*	1906.0	1880.4	1832.9	1767.2	1686.5	1600.5	1512.3	1417.3	1302.6	1231.0
90°	*1864.5*	1863.8	1836.6	1789.1	1724.2	1648.1	1562.8	1476.8	1384.8	1275.5	1206.1
92.5°	*1820.8*	1820.8	1793.6	1744.6	1680.5	1605.1	1524.4	1441.4	1353.9	1248.3	1181.9
95°	*1772.5*	1767.2	1741.6	1697.8	1633.7	1561.3	1483.6	1402.2	1317.7	1217.4	1154.8
97.5°	*1715.9*	1714.4	1689.5	1642.8	1583.9	1514.6	1439.1	1363.7	1282.2	1185.7	1126.1
100°	*1660.9*	1657.9	1634.5	1591.5	1531.1	1464.8	1393.9	1321.5	1244.5	1153.3	1095.9
102.5°	*1606.6*	1599.0	1574.9	1531.1	1478.3	1413.5	1347.1	1280.7	1205.3	1118.6	1065.0
105°	*1541.0*	1540.2	1515.3	1473.8	1420.3	1362.9	1300.3	1235.5	1166.8	1083.1	1033.3
107.5°	*1476.8*	1476.8	1453.5	1412.7	1362.2	1307.1	1251.3	1190.2	1126.9	1046.2	1000.9

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

Scaled Data Report

REPORT NUMBER: P1223962
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*1411.2*	1410.5	1389.3	1353.1	1304.9	1252.1	1200.8	1145.0	1081.6	1010.7	966.2
112.5°	*1346.4*	1344.8	1324.5	1287.5	1243.0	1200.0	1148.7	1097.4	1039.4	973.7	931.5
115°	*1280.7*	1279.2	1257.4	1224.9	1184.2	1139.7	1096.7	1047.7	997.1	931.5	894.6
117.5°	*1212.8*	1211.3	1193.2	1161.6	1123.1	1087.6	1044.6	1002.4	951.1	891.5	854.6
120°	*1143.5*	1144.2	1126.1	1097.4	1062.0	1028.8	991.1	952.6	905.1	848.5	813.1
122.5°	*1077.8*	1072.6	1060.5	1034.8	1003.2	972.2	940.6	901.3	856.8	803.3	772.4
125°	*1007.7*	1006.2	994.1	968.5	941.3	917.2	887.8	852.3	811.6	757.3	729.4
127.5°	*939.8*	942.1	928.5	909.6	883.2	862.9	832.7	801.8	762.6	713.5	687.1
130°	*876.4*	874.9	867.4	847.8	825.9	804.8	782.2	754.3	717.3	668.3	644.1
132.5°	*817.6*	810.8	804.0	787.4	769.3	752.0	732.4	704.5	666.8	623.8	602.7
135°	*753.5*	753.5	742.9	728.6	715.8	699.2	679.6	653.9	621.5	583.8	559.7
137.5°	*694.7*	691.7	684.9	673.6	661.5	649.4	632.8	607.2	578.5	542.3	521.2
140°	*638.9*	636.6	630.6	620.8	611.0	599.6	584.6	562.7	536.3	501.6	483.5
142.5°	*580.8*	582.3	577.0	570.2	558.9	551.4	537.8	518.2	494.8	464.6	447.3
145°	*528.7*	529.5	527.2	520.4	512.1	504.6	490.3	475.9	453.3	426.2	413.3
147.5°	*485.7*	482.7	478.2	474.4	466.9	460.9	449.5	436.0	414.8	391.5	379.4
150°	*437.5*	439.7	435.2	430.7	426.2	417.9	409.6	398.2	378.6	359.8	347.0
152.5°	*396.7*	398.2	394.5	392.2	387.7	380.9	372.6	362.0	347.0	330.4	318.3
155°	*360.5*	360.5	360.5	357.5	352.2	347.7	339.4	329.6	316.8	301.7	293.4
157.5°	*327.3*	328.1	328.1	324.3	320.6	316.8	310.0	301.7	290.4	277.6	271.5
160°	*300.9*	299.4	298.7	295.7	292.7	289.6	283.6	276.8	267.0	256.4	251.2
162.5°	*274.6*	274.6	273.0	270.8	268.5	264.0	260.2	253.4	246.6	239.1	233.1
165°	*254.2*	253.4	253.4	250.4	248.2	244.4	240.6	236.1	230.0	223.3	218.7
167.5°	*236.8*	235.3	234.6	233.1	230.0	227.8	224.0	220.2	215.7	211.2	207.4
170°	*220.2*	221.0	219.5	218.0	216.5	214.2	211.2	208.2	204.4	199.9	198.4
172.5°	*208.9*	208.2	207.4	205.9	204.4	202.1	200.6	197.6	195.4	192.3	190.8
175°	*198.4*	198.4	197.6	196.1	194.6	193.1	191.6	190.1	188.6	186.3	185.5
177.5°	*190.1*	190.1	190.1	188.6	187.8	187.1	185.5	184.8	184.0	182.5	182.5
180°	*181.8*	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8

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

Scaled Data Report

REPORT NUMBER: P1223962
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7
2.5°	115.4	105.6	97.3	89.8	83.7	78.4	75.4	70.1	66.4	64.1
5°	129.7	115.4	103.3	91.3	82.2	72.4	62.6	52.8	46.8	46.0
7.5°	164.4	148.6	130.5	114.6	96.5	81.5	68.6	58.8	55.1	54.3
10°	208.2	184.8	160.7	137.3	113.9	95.0	81.5	72.4	67.9	67.1
12.5°	256.4	224.8	193.8	163.7	135.8	114.6	98.1	87.5	82.2	82.2
15°	306.2	267.0	227.8	190.8	158.4	132.0	111.6	98.1	92.0	91.3
17.5°	350.0	305.5	258.7	215.0	175.7	142.6	118.4	101.8	94.3	93.5
20°	399.8	343.2	289.6	235.3	189.3	150.9	122.2	103.3	93.5	92.8
22.5°	452.6	388.4	322.1	258.7	203.7	159.1	126.0	104.8	94.3	92.8
25°	512.1	435.2	355.3	282.1	218.0	166.7	129.7	106.4	95.0	93.5
27.5°	568.7	483.5	390.7	304.0	230.8	173.5	132.7	107.9	95.8	94.3
30°	629.1	531.0	425.4	327.3	244.4	180.3	135.8	108.6	95.8	94.3
32.5°	690.1	577.0	461.6	348.5	255.7	184.8	137.3	109.4	96.5	95.0
35°	755.0	626.8	495.5	370.3	266.3	189.3	138.8	110.1	96.5	95.0
37.5°	814.6	674.3	528.7	389.2	275.3	193.1	140.3	110.1	97.3	95.8
40°	868.2	717.3	558.2	405.8	282.8	195.4	141.0	110.9	98.1	96.5
42.5°	921.0	759.5	584.6	419.4	288.9	196.9	141.8	111.6	98.8	97.3
45°	967.7	795.0	608.7	432.2	293.4	198.4	142.6	112.4	99.6	98.1
47.5°	1009.2	828.2	631.3	442.8	296.4	199.1	143.3	113.1	101.1	99.6
50°	1049.2	859.9	648.7	451.0	299.4	199.9	143.3	114.6	103.3	101.8
52.5°	1083.1	885.5	664.5	457.8	300.9	200.6	144.8	116.2	104.8	104.1
55°	1112.5	908.1	678.8	463.1	302.5	200.6	146.3	118.4	107.9	106.4
57.5°	1136.7	926.2	688.6	466.1	302.5	201.4	147.1	121.4	110.9	109.4
60°	1157.8	942.1	697.7	469.9	303.2	202.1	149.3	124.5	114.6	113.9
62.5°	1175.1	954.1	704.5	472.2	304.0	204.4	152.4	128.2	118.4	117.7
65°	1188.7	964.7	709.8	473.7	304.7	205.9	155.4	132.0	123.7	122.9
67.5°	1197.8	972.2	713.5	474.4	305.5	208.2	159.1	137.3	129.0	127.5
70°	*1204.6*	*976.8*	*715.8*	*475.2*	*307.0*	*210.4*	*163.7*	*141.8*	*134.3*	*133.5*
71°	1206.1	977.5	716.5	475.2	307.7	211.9	165.2	144.1	136.5	135.8
72.5°	1206.8	978.3	716.5	475.2	308.5	214.2	168.2	147.8	140.3	139.5
75°	1206.1	977.5	715.8	475.2	310.0	218.0	173.5	153.1	146.3	145.6
77.5°	1200.8	974.5	713.5	475.2	312.3	222.5	179.5	160.7	153.1	152.4
80°	1191.7	968.5	709.8	474.4	314.5	227.8	185.5	167.4	159.9	159.1
82.5°	1179.7	959.4	704.5	474.4	317.5	232.3	191.6	173.5	167.4	166.7
85°	1163.8	948.9	699.2	473.7	321.3	238.3	199.1	181.8	175.7	174.2
87.5°	1145.0	936.0	693.2	473.7	325.1	245.1	206.7	189.3	183.3	181.8
90°	1123.8	921.7	687.1	473.7	329.6	251.9	215.0	197.6	190.8	190.1
92.5°	1102.7	908.1	681.1	474.4	335.6	259.5	223.3	206.7	199.9	199.9
95°	1078.6	891.5	674.3	475.9	341.7	267.8	233.1	215.7	208.9	208.2
97.5°	1054.5	876.4	669.0	478.2	348.5	277.6	242.1	225.5	218.7	217.2
100°	1027.3	860.6	663.7	481.2	356.8	286.6	251.9	235.3	228.5	227.8
102.5°	1000.9	843.3	657.7	485.0	365.1	297.2	262.5	245.1	238.3	237.6
105°	972.2	825.2	650.9	488.0	373.4	307.0	272.3	254.2	246.6	246.6
107.5°	944.3	806.3	644.1	491.8	381.7	316.8	281.3	263.2	254.9	254.2

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

Scaled Data Report

REPORT NUMBER: P1223962
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	912.7	785.9	635.8	494.0	389.2	325.1	289.6	270.0	261.7	261.0
112.5°	884.0	764.1	626.8	494.8	396.0	332.6	296.4	276.1	267.8	266.3
115°	847.8	741.4	614.7	493.3	399.8	338.7	300.9	279.8	270.8	269.3
117.5°	813.1	715.8	601.9	489.5	402.0	341.7	304.0	282.1	272.3	270.8
120°	777.6	687.1	583.8	482.7	399.8	341.7	304.0	280.6	270.8	270.0
122.5°	737.7	657.0	564.9	472.9	396.0	338.7	300.9	278.3	267.8	267.0
125°	696.2	624.5	542.3	459.3	388.4	334.1	296.4	273.8	263.2	262.5
127.5°	656.2	591.3	518.9	443.5	377.9	326.6	290.4	267.0	256.4	254.9
130°	617.0	556.6	492.5	424.6	365.1	316.8	282.1	260.2	249.7	248.2
132.5°	576.3	523.5	466.1	406.5	351.5	306.2	273.0	251.9	242.1	240.6
135°	537.8	488.8	437.5	384.7	335.6	294.2	263.2	243.6	233.8	233.1
137.5°	500.8	456.3	411.1	363.6	319.8	282.1	253.4	235.3	226.3	224.8
140°	463.1	424.6	383.9	343.2	302.5	269.3	243.6	226.3	218.0	216.5
142.5°	430.7	394.5	358.3	320.6	285.9	255.7	233.1	217.2	210.4	209.7
145°	396.7	365.1	332.6	300.2	270.0	243.6	223.3	209.7	202.9	202.1
147.5°	366.6	336.4	308.5	280.6	254.2	230.8	213.5	202.1	196.9	196.1
150°	335.6	311.5	287.4	261.7	239.1	219.5	205.2	195.4	190.1	189.3
152.5°	308.5	288.1	266.3	246.6	225.5	209.7	197.6	188.6	184.8	184.0
155°	285.1	267.8	249.7	231.6	215.0	202.1	191.6	184.0	181.0	181.0
157.5°	264.7	249.7	234.6	219.5	205.9	194.6	186.3	181.0	178.0	177.3
160°	245.1	233.1	219.5	208.2	197.6	189.3	182.5	178.0	175.7	175.0
162.5°	229.3	218.7	209.7	199.9	191.6	184.8	179.5	175.7	174.2	174.2
165°	215.7	208.2	199.9	193.1	186.3	181.0	177.3	175.0	173.5	173.5
167.5°	205.2	198.4	193.1	187.1	182.5	178.8	175.7	174.2	173.5	172.7
170°	196.1	191.6	187.1	183.3	179.5	177.3	175.0	174.2	173.5	173.5
172.5°	189.3	186.3	183.3	180.3	178.0	175.7	175.0	174.2	174.2	174.2
175°	184.0	182.5	180.3	178.8	177.3	176.5	175.7	175.7	175.7	175.7
177.5°	181.8	180.3	179.5	178.8	178.0	178.0	178.0	178.8	178.8	178.8
180°	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8

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: SP1-2501-332-5

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

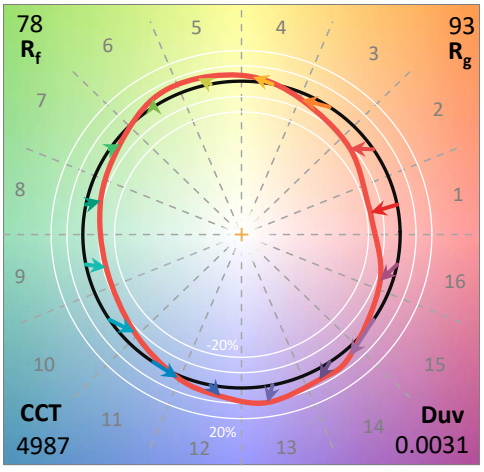
Test Information

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

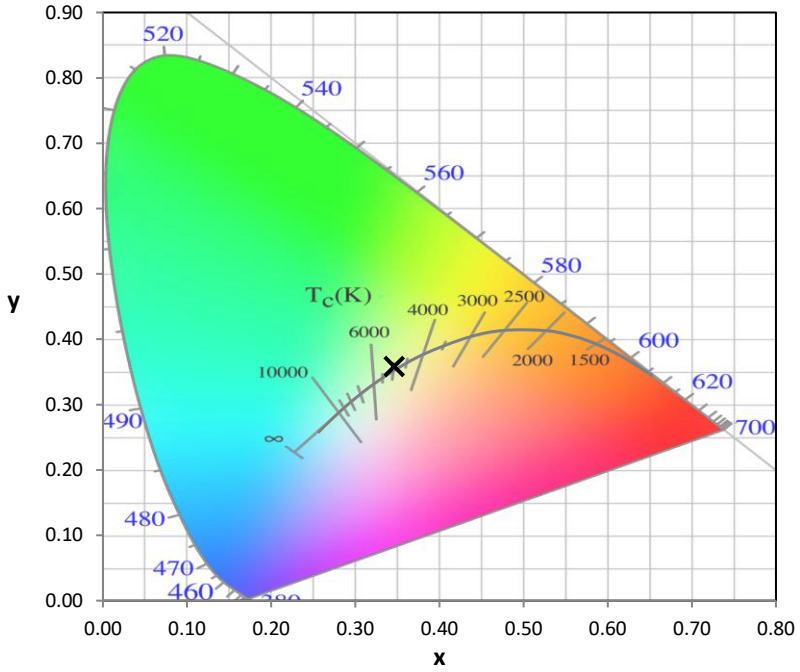
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

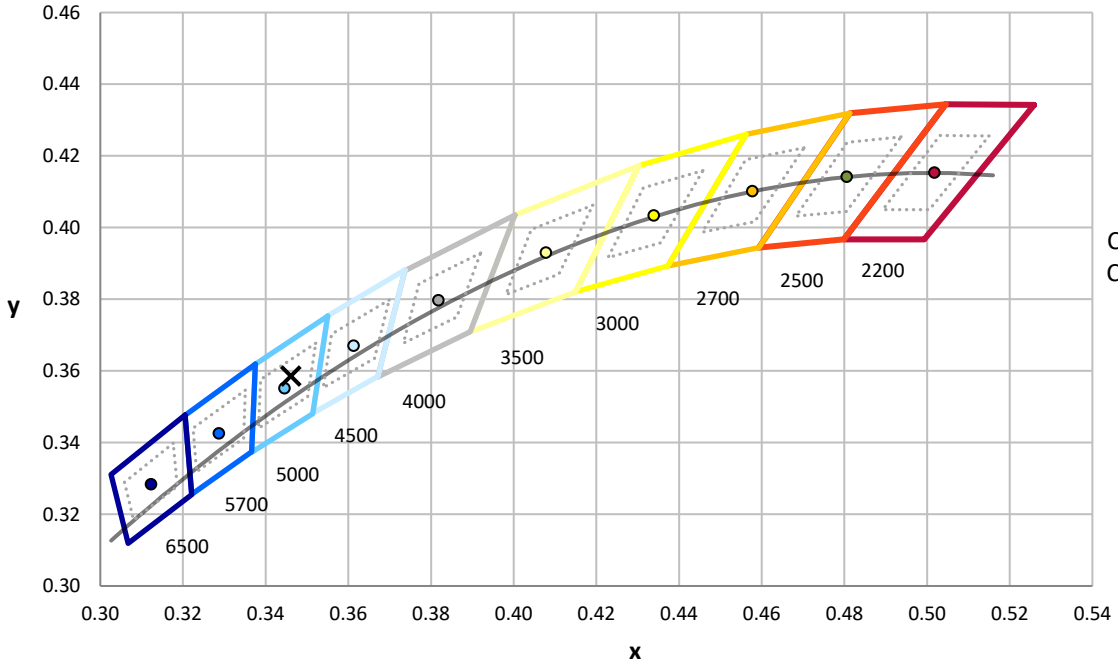
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

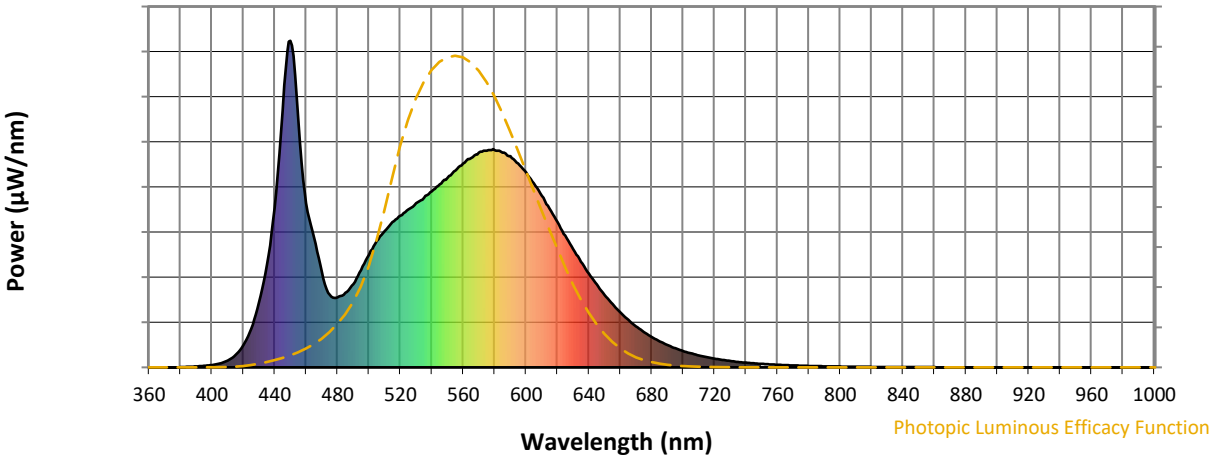


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

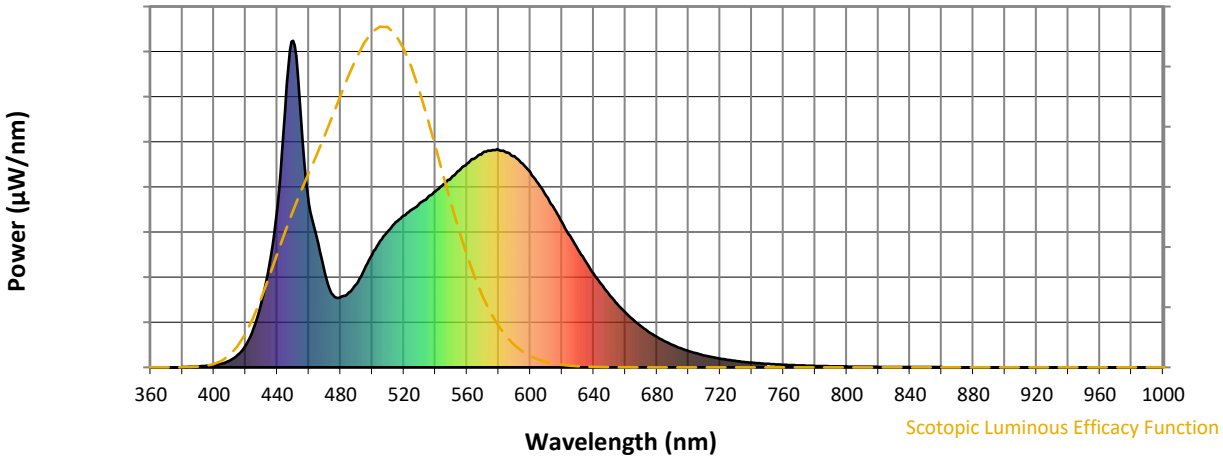


Photopic Lumens: NR

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

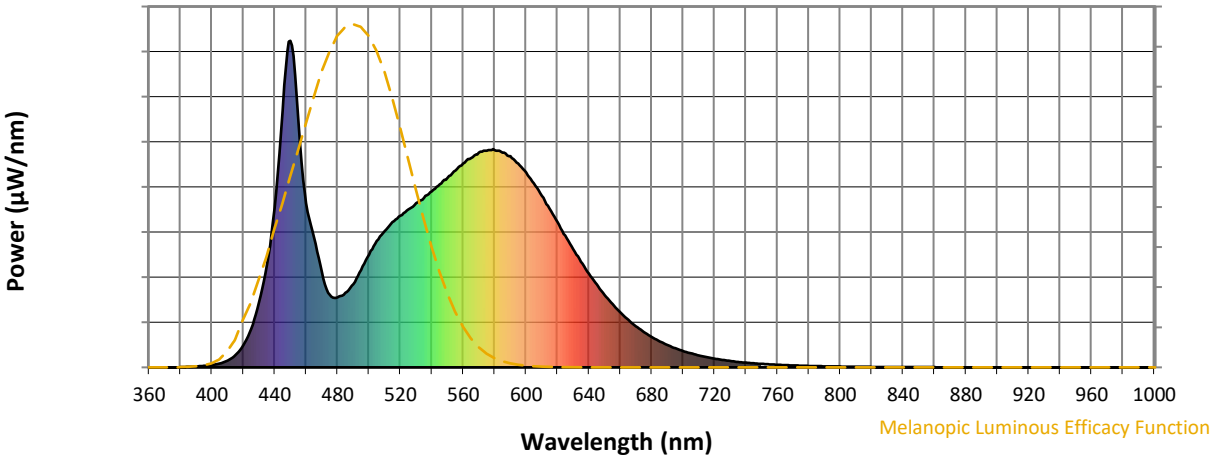


Scotopic Lumens: NR **S/P: 1.87**

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			

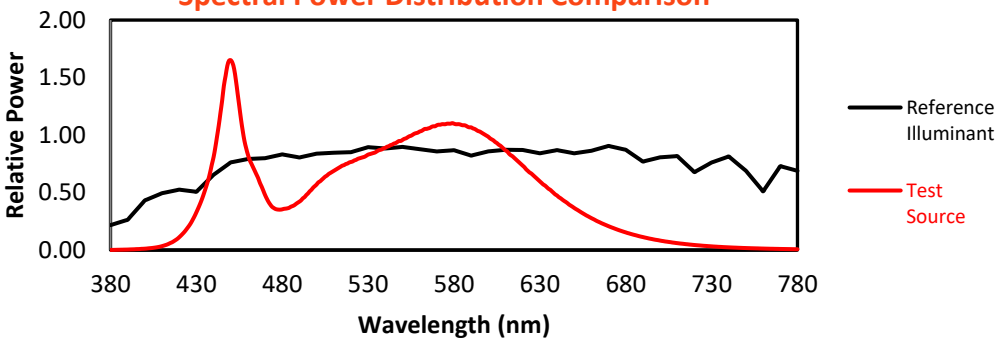
REPORT NUMBER: SP1-2501-332-5

TM-30-18

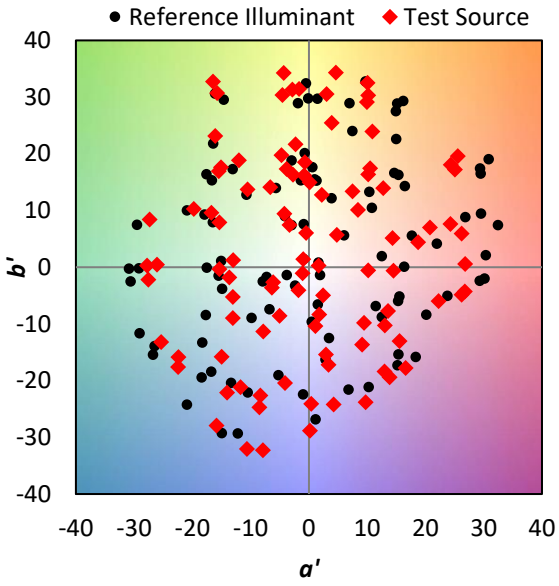
Summary

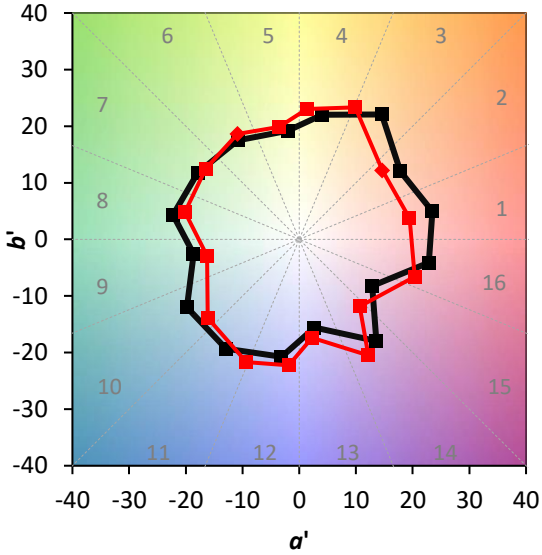
R_f = 78.3
R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

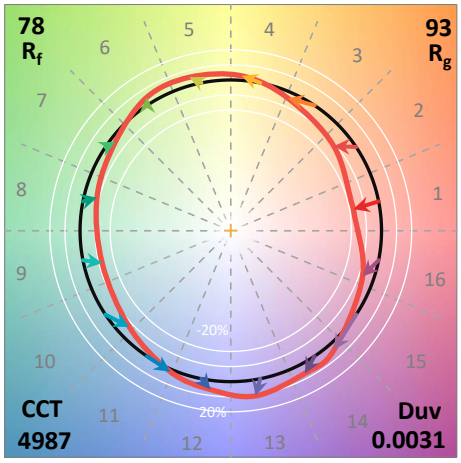
Spectral Power Distribution Comparison

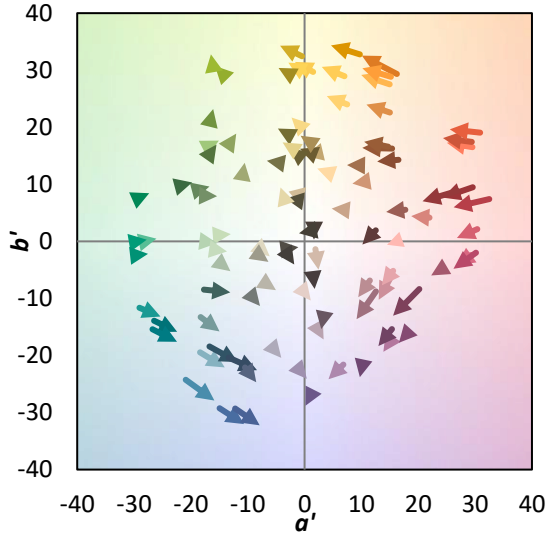


Color Vector Graphics







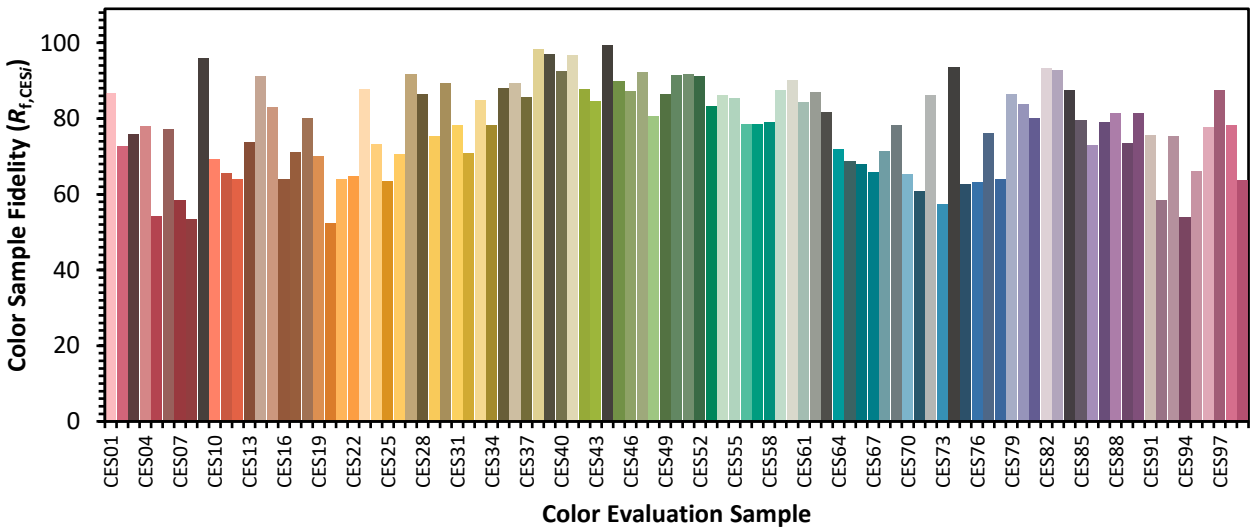


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

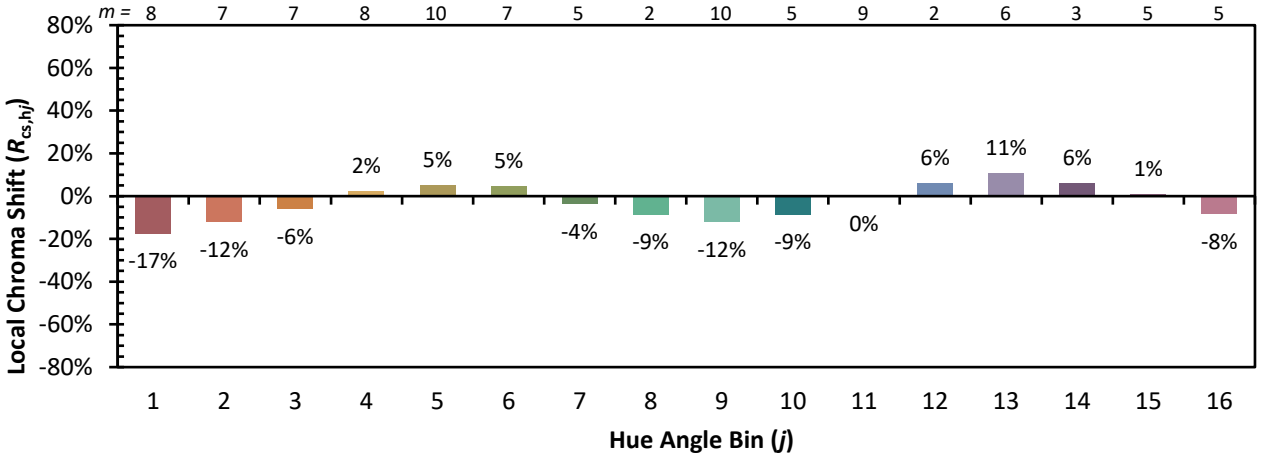
CES01 = 85	CES26 = 71	CES51 = 92	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 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	

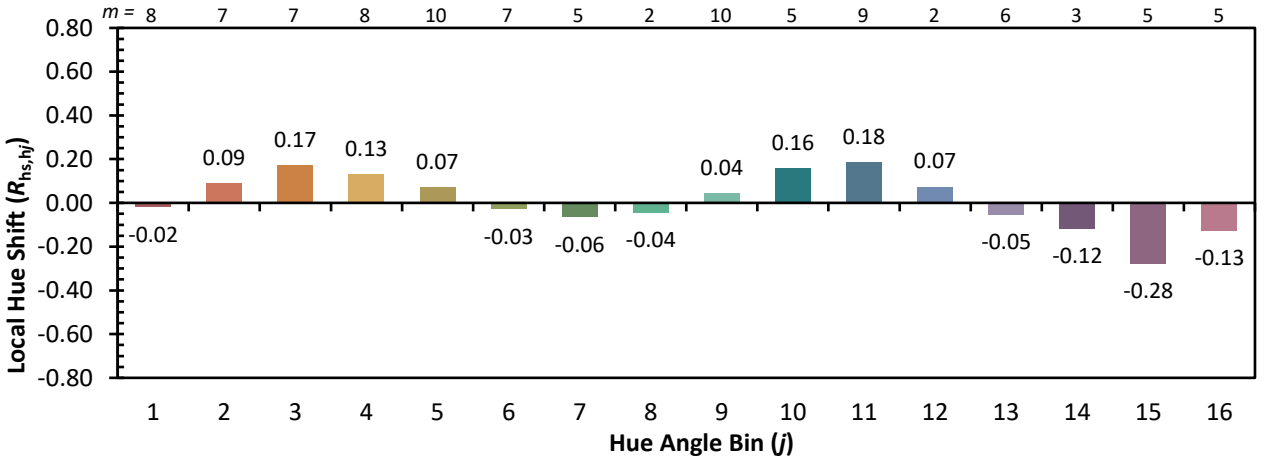


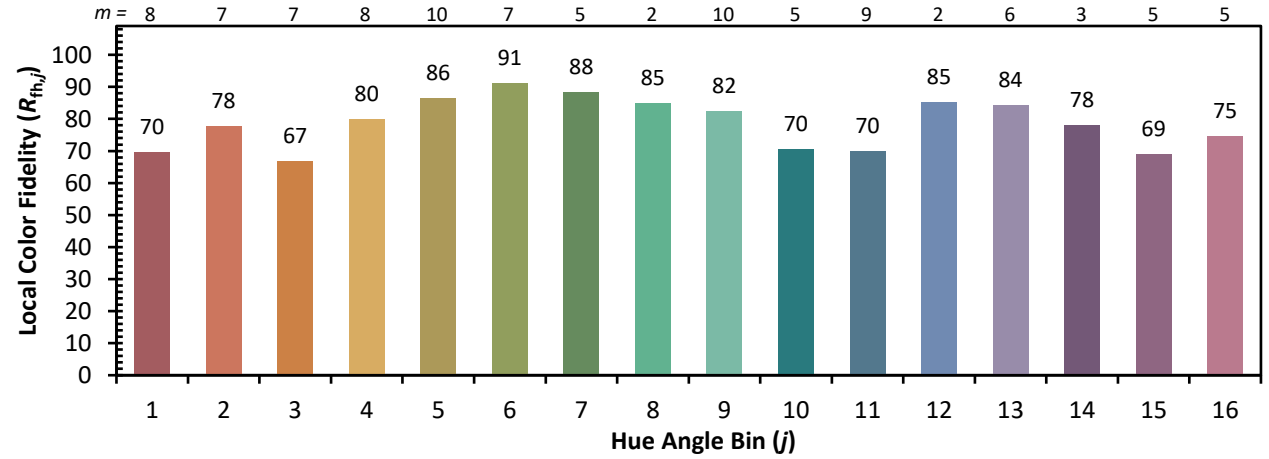
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



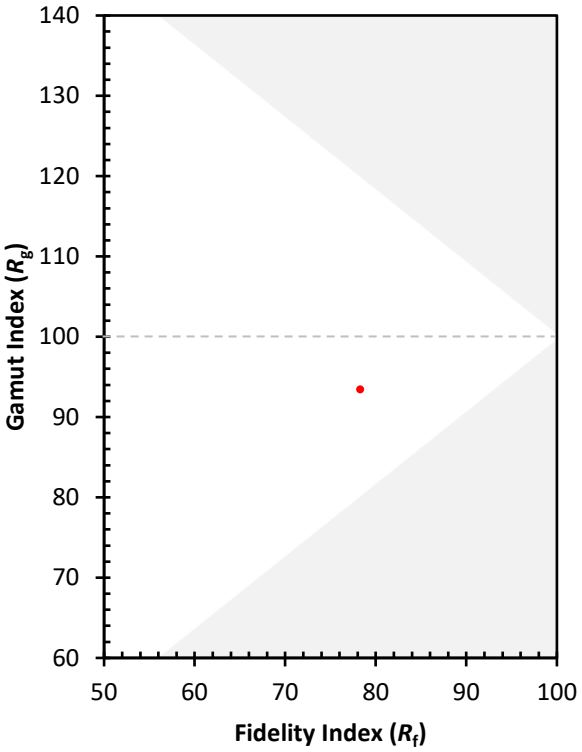


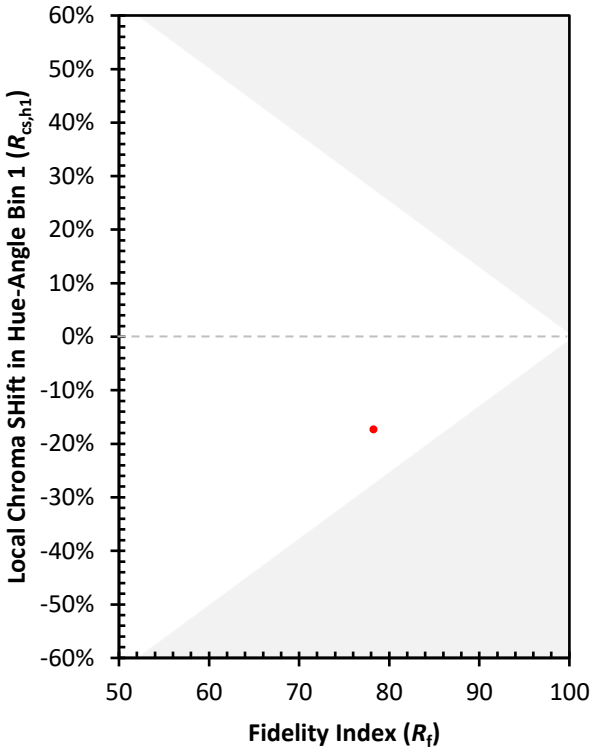


REPORT NUMBER: SP1-2501-332-5

TM-30-18

Measure Comparisons





(END OF REPORT)