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: P1223916

Luminaire Tested: **FFX-CLB-80-750-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:	P1223916
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-750-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:	12714.6 lumens
Efficiency:	N/A
Efficacy:	155.4 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

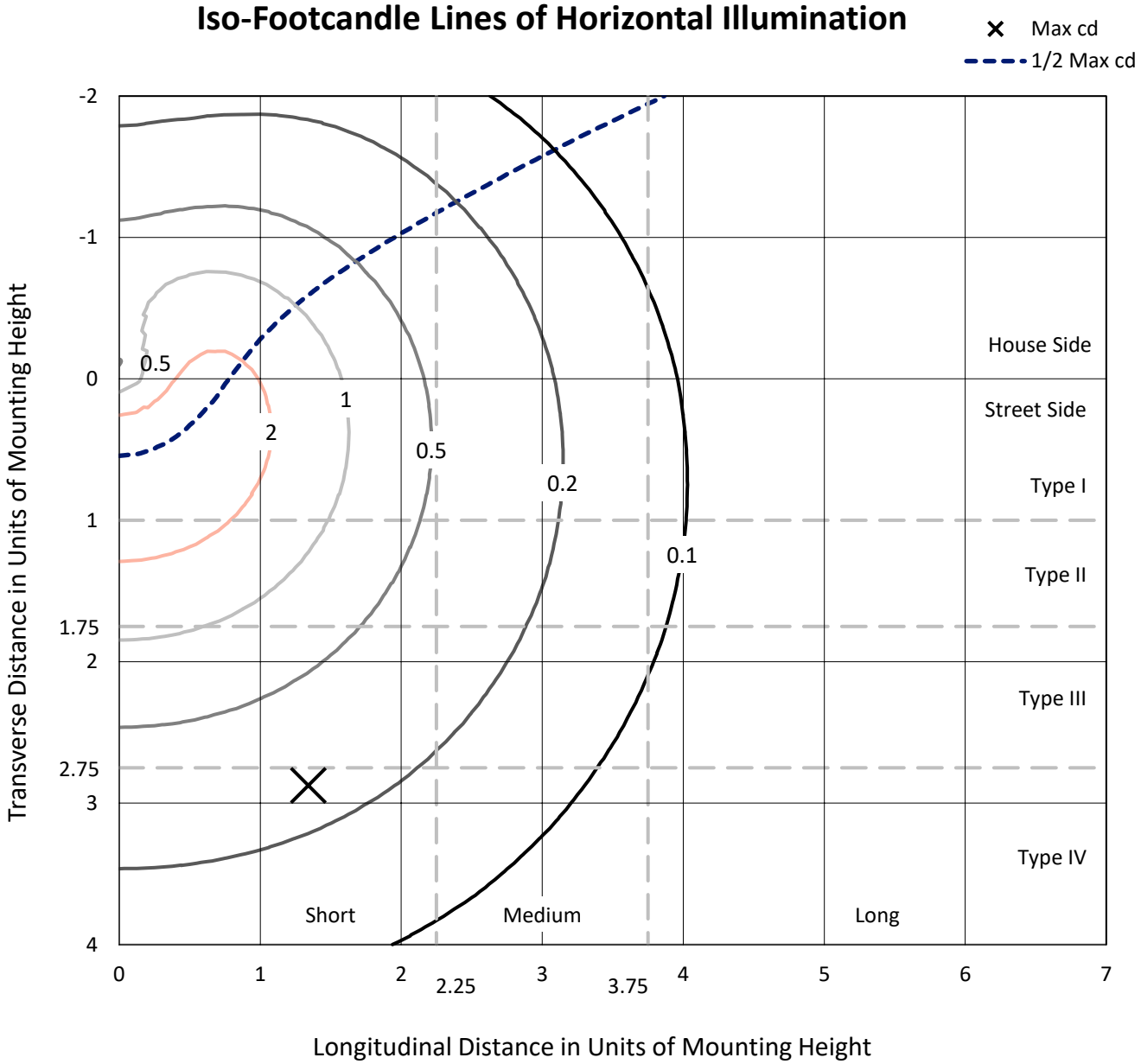


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223916
CATALOG NUMBER: FFX-CLB-80-750-U-VM9-T4

Iso-Footcandle Lines of Horizontal Illumination



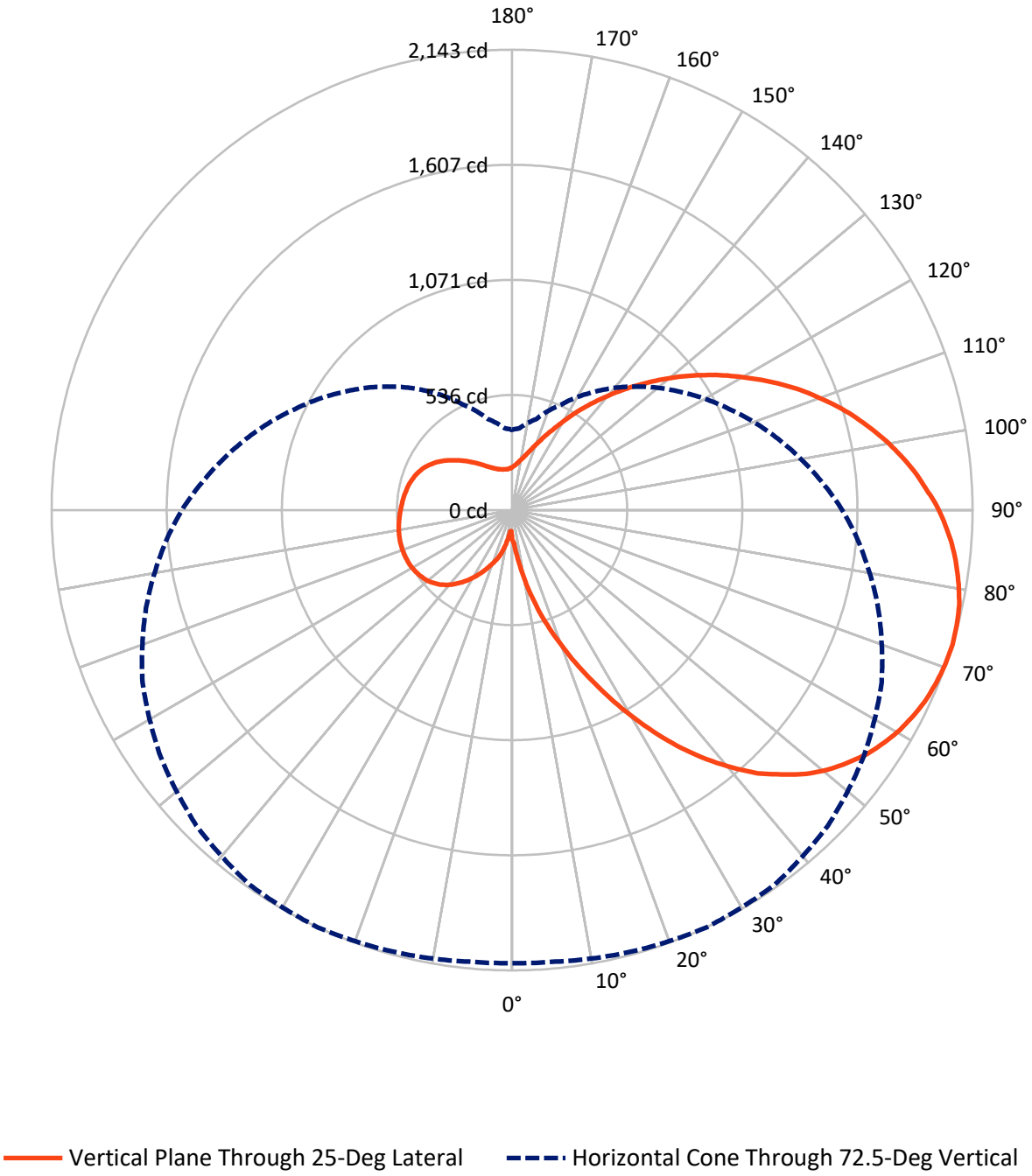
Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1223916
CATALOG NUMBER: FFX-CLB-80-750-U-VM9-T4

Luminous Intensity Polar Plot



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

Scaled Data Report

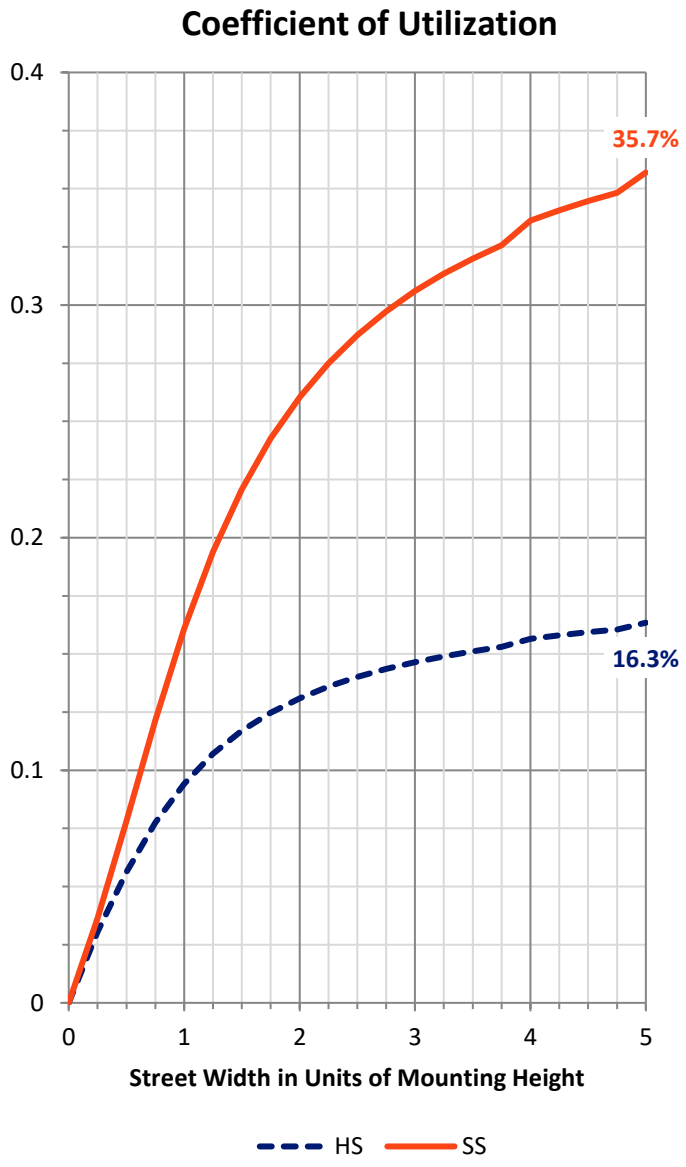
REPORT NUMBER: P1223916
CATALOG NUMBER: FFX-CLB-80-750-U-VM9-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2290.8	1753.0	4043.8
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	5181.1	3489.6	8670.7
	% Fixture	40.7	27.4	68.2
Total	Lumens	7471.9	5242.7	12714.6
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.0	0.1
10°-20°	107.9	0.8
20°-30°	294.1	2.3
30°-40°	582.7	4.6
40°-50°	909.7	7.2
50°-60°	1192.3	9.4
60°-70°	1391.3	10.9
70°-80°	1492.9	11.7
80°-90°	1483.0	11.7
90°-100°	1375.9	10.8
100°-110°	1198.1	9.4
110°-120°	969.4	7.6
120°-130°	713.6	5.6
130°-140°	472.0	3.7
140°-150°	279.2	2.2
150°-160°	146.8	1.2
160°-170°	68.0	0.5
170°-180°	19.6	0.2
0°-90°	7471.9	58.8
0°-180°	12714.6	100.0



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

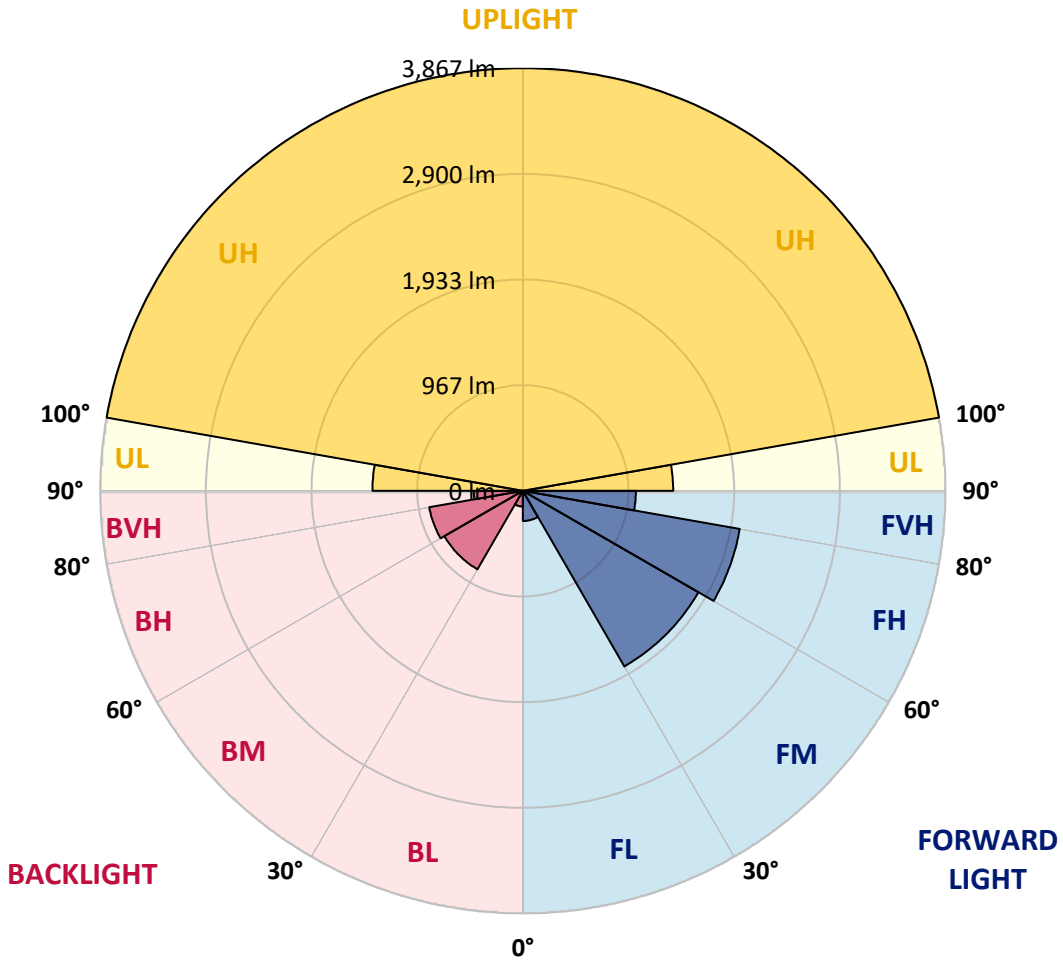
Scaled Data Report

REPORT NUMBER: P1223916
CATALOG NUMBER: FFX-CLB-80-750-U-VM9-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	276.1	2.2			
FM	(30°-60°)	1855.7	14.6			
FH	(60°-80°)	2015.4	15.9			G2/5000
FVH	(80°-90°)	1033.9	8.1			G5
BL	(0°-30°)	143.9	1.1	B1/500		
BM	(30°-60°)	829.0	6.5	B1/1000		
BH	(60°-80°)	868.9	6.8	B2/1000		G2/1000
BVH	(80°-90°)	449.1	3.5			G3/500
UL	(90°-100°)	1375.9	10.8		U5	
UH	(100°-180°)	3866.8	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: P1223916
CATALOG NUMBER: FFX-CLB-80-750-U-VM9-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	138.1	138.1	138.1	*138.1*	138.1	138.1	138.1	138.1	138.1	138.1	138.1
2.5°	148.4	148.4	151.0	*151.8*	152.7	152.7	153.6	152.7	149.3	145.0	142.4
5°	202.5	200.7	199.9	*200.7*	200.7	197.3	192.2	182.7	175.9	164.7	160.4
7.5°	271.1	269.4	266.8	*264.2*	264.2	255.6	247.1	239.3	227.3	211.9	206.7
10°	350.9	347.4	344.0	*338.9*	332.8	325.1	314.0	301.1	284.8	268.5	258.2
12.5°	428.9	428.1	426.4	*418.6*	407.5	400.6	388.6	370.6	350.0	327.7	319.1
15°	519.0	514.7	512.1	*506.1*	499.3	485.5	465.8	448.7	424.6	393.8	383.5
17.5°	602.2	600.5	595.4	*593.6*	582.5	567.9	545.6	519.9	490.7	462.4	446.9
20°	693.2	697.4	691.4	*686.3*	666.6	652.0	631.4	606.5	571.3	531.0	514.7
22.5°	794.4	798.7	789.2	*789.2*	772.9	748.9	719.7	690.6	646.8	604.8	584.2
25°	911.9	913.6	899.0	*893.0*	881.0	857.0	821.8	787.5	736.9	683.7	659.7
27.5°	1023.4	1026.9	1018.3	*1010.6*	990.8	967.7	929.1	888.7	831.3	767.8	741.2
30°	1149.5	1142.7	1139.2	*1125.5*	1104.9	1080.9	1038.0	993.4	927.3	852.7	820.1
32.5°	1261.1	1255.9	1258.5	*1247.3*	1217.3	1190.7	1150.4	1096.3	1019.1	941.1	904.2
35°	1376.0	1378.6	1375.2	*1363.1*	1345.1	1310.0	1255.1	1194.1	1116.9	1025.1	985.7
37.5°	1493.5	1487.5	1483.2	*1472.9*	1454.9	1415.5	1361.4	1292.8	1203.6	1106.6	1062.9
40°	1594.8	1599.1	1593.9	*1576.7*	1560.4	1516.7	1457.5	1379.4	1287.6	1183.8	1133.2
42.5°	1690.8	1689.1	1684.8	*1675.4*	1653.1	1606.8	1548.4	1468.7	1364.9	1249.9	1196.7
45°	1768.1	1769.8	1769.8	*1756.0*	1735.5	1693.4	1626.5	1545.0	1434.3	1313.4	1257.6
47.5°	1841.8	1844.4	1842.7	*1836.7*	1814.4	1764.6	1696.8	1612.8	1495.3	1370.9	1308.2
50°	1907.0	1907.0	1906.2	*1901.0*	1879.6	1831.5	1762.0	1672.0	1550.2	1418.9	1357.1
52.5°	1961.1	1960.2	1961.1	*1955.1*	1932.8	1889.0	1816.9	1720.9	1599.1	1459.2	1399.2
55°	2004.0	2001.4	2007.4	*2004.8*	1985.1	1936.2	1859.8	1766.3	1640.2	1497.8	1434.3
57.5°	2038.3	2037.4	2045.1	*2042.6*	2022.8	1973.9	1898.4	1803.2	1674.5	1529.6	1460.1
60°	2066.6	2064.9	2075.2	*2075.2*	2055.4	2006.5	1931.9	1831.5	1702.0	1554.4	1484.1
62.5°	2086.3	2087.2	2096.6	*2100.0*	2082.9	2033.1	1955.1	1856.4	1724.3	1574.2	1503.0
65°	2100.0	2101.8	2112.9	*2119.8*	2102.6	2053.7	1973.1	1874.4	1742.3	1590.5	1517.6
67.5°	2108.6	2109.5	2124.9	*2131.8*	2118.1	2066.6	1988.5	1887.3	1754.3	1600.8	1528.7
70°	2112.1	2112.9	2130.1	*2140.4*	2126.6	2074.3	1995.4	1894.2	1762.0	1607.6	1534.7
72.5°	*2109.5*	*2111.2*	*2129.2*	*2142.9*	*2129.2*	*2077.7*	*1998.0*	*1897.6*	*1763.8*	*1615.4*	*1536.4*
75°	2100.9	2102.6	2123.2	*2136.9*	2126.6	2073.4	1993.7	1894.2	1761.2	1608.5	1533.9
77.5°	2086.3	2088.9	2110.3	*2127.5*	2115.5	2064.9	1985.1	1884.7	1751.8	1599.9	1524.4
80°	2064.9	2065.7	2089.7	*2106.9*	2098.3	2047.7	1967.9	1868.4	1736.3	1585.3	1511.6
82.5°	2037.4	2040.9	2064.0	*2082.9*	2075.2	2022.8	1945.6	1847.8	1716.6	1567.3	1492.7
85°	2008.3	2011.7	2033.1	*2053.7*	2044.3	1995.4	1918.2	1821.2	1690.0	1542.4	1471.2
87.5°	1973.1	1975.7	1996.2	*2017.7*	2009.1	1960.2	1885.6	1790.4	1662.5	1519.3	1446.4
90°	1934.5	1937.0	1956.8	*1977.4*	1966.2	1919.9	1847.0	1753.5	1629.1	1488.4	1418.0
92.5°	1893.3	1894.2	1916.5	*1927.6*	1921.6	1880.4	1808.4	1718.3	1593.9	1456.6	1390.6
95°	1847.0	1847.0	1868.4	*1880.4*	1870.1	1831.5	1763.8	1673.7	1552.7	1424.0	1356.3
97.5°	1796.4	1798.1	1814.4	*1826.4*	1823.0	1782.6	1718.3	1632.5	1516.7	1388.9	1324.5
100°	1744.0	1744.0	1758.6	*1768.9*	1761.2	1728.6	1667.7	1588.8	1471.2	1351.1	1288.5
102.5°	1689.1	1688.3	1700.3	*1708.0*	1702.9	1672.8	1616.2	1538.1	1428.3	1311.7	1252.5
105°	1628.2	1625.6	1637.7	*1646.2*	1641.1	1614.5	1566.5	1491.0	1384.6	1273.1	1216.4
107.5°	1563.0	1567.3	1574.2	*1579.3*	1575.0	1551.9	1506.4	1439.5	1339.1	1232.7	1177.8
110°	1501.3	1503.8	1504.7	*1510.7*	1509.8	1491.0	1452.4	1385.4	1290.2	1189.9	1136.7

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

Scaled Data Report

REPORT NUMBER: P1223916
CATALOG NUMBER: FFX-CLB-80-750-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1438.6	1437.8	1438.6	*1442.9*	1442.9	1424.0	1387.2	1328.8	1242.2	1144.4	1095.5
115°	1370.9	1367.4	1368.3	*1369.1*	1372.6	1358.0	1326.3	1271.3	1186.4	1099.8	1051.7
117.5°	1300.5	1299.7	1297.9	*1295.4*	1295.4	1289.4	1261.9	1213.0	1132.4	1046.6	1006.3
120°	1233.6	1230.2	1225.9	*1223.3*	1225.0	1218.2	1195.9	1147.0	1075.8	998.5	958.2
122.5°	1156.4	1159.0	1156.4	*1153.0*	1153.8	1147.0	1128.1	1086.9	1015.7	941.9	905.9
125°	1090.3	1089.5	1086.1	*1080.9*	1080.9	1078.3	1057.7	1021.7	958.2	887.9	854.4
127.5°	1016.6	1017.4	1014.0	*1011.4*	1013.1	1008.0	994.3	953.1	897.3	834.7	802.1
130°	947.1	946.2	945.4	*940.2*	944.5	935.1	923.1	888.7	835.6	782.4	752.3
132.5°	881.9	876.7	873.3	*872.4*	871.6	870.7	856.1	826.1	781.5	728.3	699.2
135°	816.7	812.4	808.1	*806.4*	808.1	803.8	790.9	766.1	724.9	673.4	651.1
137.5°	749.8	748.1	748.1	*743.8*	743.8	740.3	729.2	708.6	670.0	625.4	603.1
140°	689.7	686.3	684.6	*682.0*	684.6	681.1	669.1	649.4	616.8	578.2	556.8
142.5°	628.0	624.5	627.1	*624.5*	621.9	620.2	609.9	594.5	566.2	531.0	513.0
145°	570.5	570.5	568.8	*569.6*	567.9	566.2	555.9	541.3	517.3	484.7	471.8
147.5°	516.4	518.1	516.4	*518.1*	518.1	511.3	504.4	492.4	470.1	444.4	430.6
150°	465.8	468.4	466.7	*465.8*	466.7	463.2	453.8	446.9	427.2	404.9	391.2
152.5°	422.9	424.6	424.6	*422.9*	422.1	420.4	410.9	401.5	386.0	368.9	359.4
155°	382.6	382.6	383.5	*384.3*	381.7	376.6	373.2	365.4	351.7	336.3	326.8
157.5°	349.1	348.3	349.1	*348.3*	347.4	342.3	337.1	331.1	320.0	306.3	301.1
160°	317.4	317.4	318.3	*317.4*	314.0	311.4	307.1	302.0	292.5	283.1	276.2
162.5°	291.7	291.7	291.7	*290.8*	287.4	286.5	281.4	276.2	268.5	260.8	255.6
165°	269.4	269.4	268.5	*268.5*	266.8	264.2	259.9	255.6	248.8	242.8	239.3
167.5°	251.4	250.5	249.6	*248.8*	247.9	245.3	241.1	238.5	233.3	228.2	225.6
170°	235.9	235.9	235.1	*235.1*	233.3	230.8	228.2	224.8	221.3	216.2	214.5
172.5°	222.2	222.2	222.2	*222.2*	219.6	218.8	216.2	213.6	211.0	207.6	205.9
175°	211.9	211.9	211.9	*211.9*	210.2	208.5	207.6	205.0	203.3	200.7	199.9
177.5°	204.2	204.2	204.2	*204.2*	203.3	201.6	200.7	199.0	197.3	196.5	195.6
180°	197.3	197.3	197.3	*197.3*	197.3	197.3	197.3	197.3	197.3	197.3	197.3

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

Scaled Data Report

REPORT NUMBER: P1223916
CATALOG NUMBER: FFX-CLB-80-750-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	138.1	138.1	138.1	138.1	138.1	138.1	138.1	138.1	138.1	138.1
2.5°	139.8	134.7	127.8	120.1	114.1	106.4	98.7	94.4	91.8	90.1
5°	156.1	145.0	134.7	123.5	115.0	107.2	98.7	91.8	88.4	87.5
7.5°	199.0	183.6	168.1	154.4	142.4	130.4	121.8	115.0	110.7	110.7
10°	250.5	229.0	211.0	193.0	176.7	162.1	150.1	143.3	138.1	136.4
12.5°	308.8	283.1	258.2	237.6	213.6	197.3	182.7	173.3	167.3	166.4
15°	369.7	343.1	311.4	283.1	256.5	230.8	213.6	199.9	194.7	194.7
17.5°	428.1	393.8	358.6	324.3	291.7	261.6	237.6	222.2	214.5	212.7
20°	490.7	449.5	404.1	363.7	323.4	288.2	259.9	240.2	229.9	229.0
22.5°	555.0	507.0	458.1	404.9	358.6	316.6	283.1	259.9	247.1	245.3
25°	628.8	570.5	512.1	453.8	398.0	348.3	308.8	280.5	265.9	264.2
27.5°	710.3	637.4	567.9	501.0	435.8	380.9	333.7	301.1	283.1	282.2
30°	784.9	704.3	625.4	548.2	477.0	410.9	358.6	320.8	301.1	298.5
32.5°	859.6	770.4	681.1	596.2	513.9	442.7	383.5	339.7	316.6	314.8
35°	936.8	835.6	738.6	640.8	555.0	474.4	406.6	358.6	333.7	330.3
37.5°	1008.8	899.9	793.5	689.7	591.1	503.6	428.9	376.6	348.3	344.0
40°	1074.9	957.4	843.3	731.8	625.4	531.0	450.4	392.0	360.3	356.9
42.5°	1135.8	1011.4	888.7	768.6	657.1	555.0	468.4	404.9	369.7	366.3
45°	1193.3	1062.0	930.8	803.0	684.6	577.3	485.5	416.9	379.2	374.0
47.5°	1242.2	1104.9	964.2	832.1	709.5	596.2	498.4	425.5	386.0	380.9
50°	1285.9	1141.0	996.0	860.4	730.9	613.4	510.4	432.4	389.5	384.3
52.5°	1321.1	1174.4	1023.4	882.7	750.6	627.1	519.0	438.4	392.9	387.8
55°	1355.4	1201.9	1047.4	902.5	765.2	640.0	525.9	441.8	394.6	388.6
57.5°	1383.7	1225.0	1067.2	917.9	779.8	648.5	531.9	443.5	394.6	387.8
60°	1404.3	1243.0	1082.6	930.8	789.2	656.3	536.2	444.4	393.8	386.9
62.5°	1422.3	1257.6	1093.8	941.9	798.7	662.3	540.5	445.2	392.0	385.2
65°	1436.1	1269.6	1103.2	948.8	804.7	667.4	541.3	444.4	389.5	382.6
67.5°	1447.2	1277.4	1109.2	954.8	809.0	670.0	543.0	443.5	387.8	380.0
70°	1451.5	1280.8	1112.6	957.4	811.5	671.7	543.0	441.8	384.3	376.6
72.5°	*1450.6*	*1280.8*	*1113.5*	*958.2*	*812.4*	*672.6*	*542.2*	*439.2*	*381.7*	*374.0*
75°	1448.1	1278.2	1111.8	957.4	811.5	671.7	541.3	437.5	379.2	372.3
77.5°	1441.2	1271.3	1105.8	953.9	809.8	669.1	538.7	435.8	377.5	368.9
80°	1429.2	1261.1	1097.2	946.2	803.8	666.6	536.2	432.4	374.0	367.2
82.5°	1412.0	1248.2	1086.9	939.4	798.7	661.4	532.7	430.6	372.3	365.4
85°	1392.3	1231.9	1073.2	929.1	790.9	656.3	528.4	427.2	370.6	363.7
87.5°	1368.3	1210.4	1059.5	917.1	781.5	649.4	524.2	424.6	369.7	362.9
90°	1343.4	1190.7	1042.3	905.9	773.8	642.5	519.9	422.9	368.9	362.9
92.5°	1316.0	1169.3	1026.0	891.3	763.5	635.7	515.6	421.2	368.9	362.9
95°	1288.5	1147.0	1009.7	878.4	753.2	628.8	511.3	420.4	370.6	364.6
97.5°	1255.9	1121.2	990.0	864.7	741.2	621.1	507.9	419.5	371.5	366.3
100°	1225.0	1095.5	969.4	849.3	730.0	612.5	502.7	418.6	373.2	367.2
102.5°	1191.6	1070.6	948.8	833.0	718.0	603.1	498.4	417.8	374.9	369.7
105°	1158.1	1040.6	926.5	814.1	703.4	593.6	493.3	416.9	375.7	370.6
107.5°	1121.2	1012.3	901.6	796.1	688.9	583.3	486.4	415.2	376.6	371.5
110°	1083.5	978.8	875.9	775.5	671.7	570.5	479.5	410.9	375.7	371.5

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

Scaled Data Report

REPORT NUMBER: P1223916
CATALOG NUMBER: FFX-CLB-80-750-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1047.4	947.1	847.6	752.3	653.7	557.6	470.1	406.6	373.2	369.7
115°	1002.8	911.0	817.5	727.5	633.1	541.3	459.8	400.6	369.7	365.4
117.5°	961.7	873.3	785.8	700.9	611.7	525.0	447.8	392.9	363.7	360.3
120°	915.3	833.0	751.5	670.8	587.6	506.1	433.2	383.5	356.0	353.4
122.5°	869.9	793.5	716.3	640.0	561.9	484.7	418.6	371.5	347.4	344.9
125°	821.8	751.5	679.4	607.4	533.6	462.4	401.5	357.7	336.3	333.7
127.5°	772.9	707.7	640.0	573.1	506.1	440.1	383.5	344.0	323.4	322.6
130°	721.5	663.1	601.4	539.6	477.8	416.9	364.6	329.4	310.5	308.8
132.5°	675.1	621.1	563.6	505.3	446.9	393.8	346.6	314.0	297.7	296.0
135°	629.7	575.6	525.9	474.4	420.4	370.6	328.6	299.4	284.8	283.1
137.5°	583.3	536.2	489.8	441.8	392.9	348.3	311.4	285.7	272.8	271.1
140°	537.0	497.6	455.5	410.1	368.0	327.7	294.2	272.8	260.8	259.1
142.5°	495.0	457.2	419.5	380.0	342.3	308.0	278.8	258.2	247.9	247.1
145°	453.8	421.2	386.9	351.7	319.1	290.8	264.2	247.1	238.5	237.6
147.5°	416.9	387.8	356.9	326.8	298.5	271.9	250.5	235.9	227.3	226.5
150°	380.0	354.3	328.6	302.8	278.8	256.5	237.6	225.6	219.6	217.9
152.5°	347.4	326.8	303.7	282.2	260.8	241.9	227.3	216.2	211.0	210.2
155°	318.3	301.1	282.2	263.4	246.2	230.8	217.9	209.3	205.0	205.0
157.5°	293.4	278.8	263.4	247.9	234.2	221.3	211.0	204.2	200.7	199.9
160°	271.1	258.2	246.2	235.1	222.2	212.7	205.0	199.0	196.5	195.6
162.5°	250.5	241.9	232.5	223.0	213.6	205.9	199.9	195.6	193.9	193.9
165°	235.9	228.2	220.5	213.6	206.7	201.6	196.5	193.9	192.2	191.3
167.5°	223.0	217.0	211.9	206.7	201.6	197.3	193.9	192.2	190.4	190.4
170°	212.7	208.5	205.0	201.6	198.2	194.7	193.0	191.3	190.4	190.4
172.5°	204.2	201.6	199.0	197.3	194.7	193.0	191.3	190.4	190.4	190.4
175°	199.0	197.3	195.6	194.7	193.9	193.0	192.2	191.3	191.3	191.3
177.5°	195.6	194.7	194.7	193.9	193.9	193.9	193.9	193.9	193.9	193.9
180°	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3

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

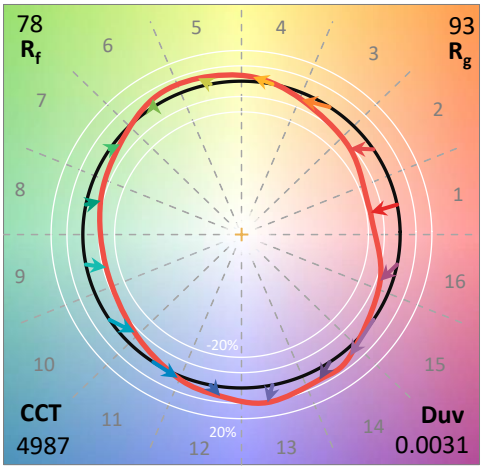
Test Information

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

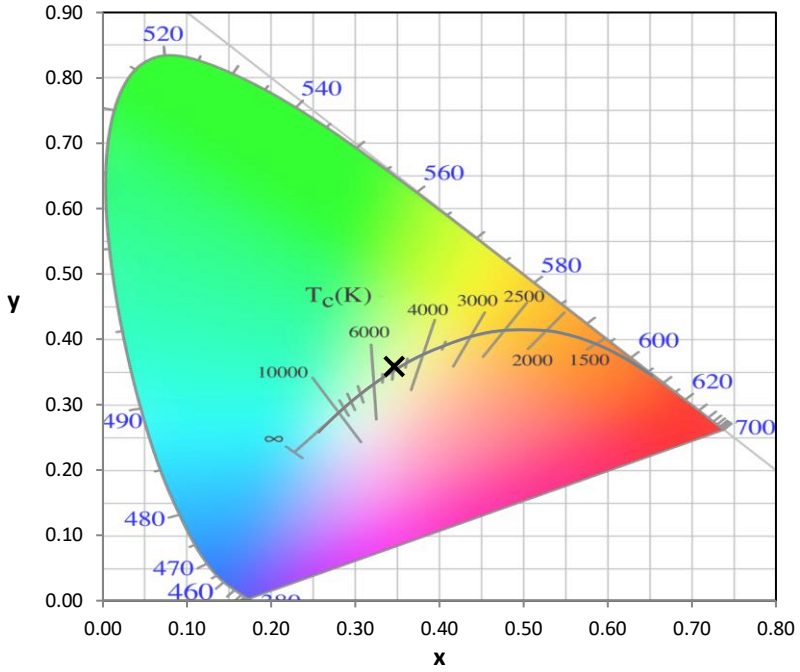
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

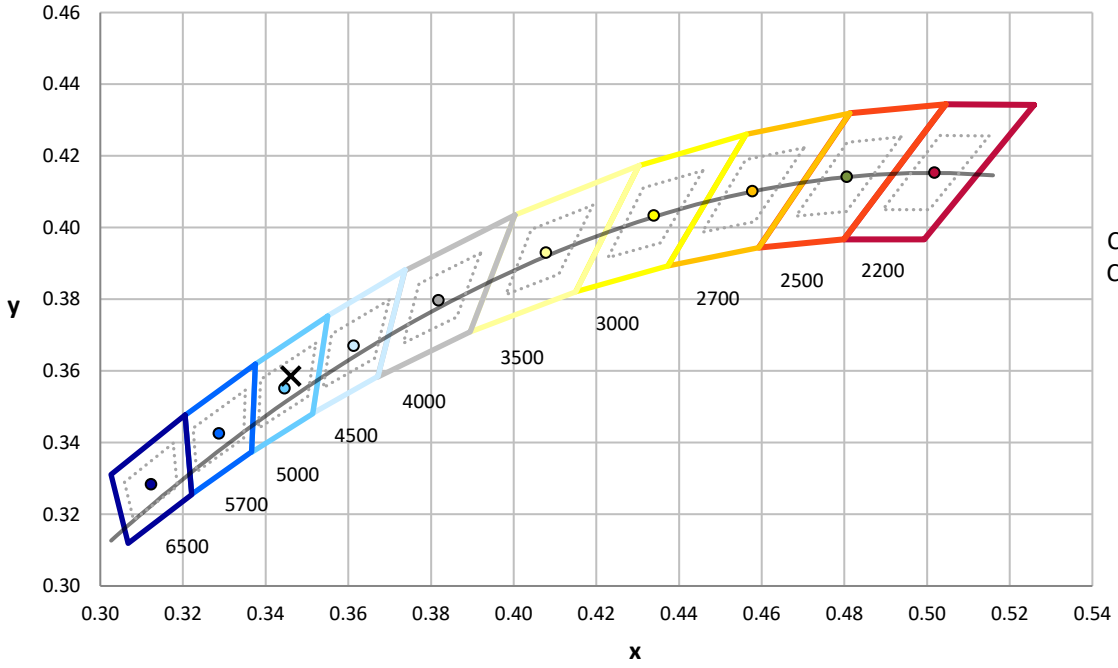
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

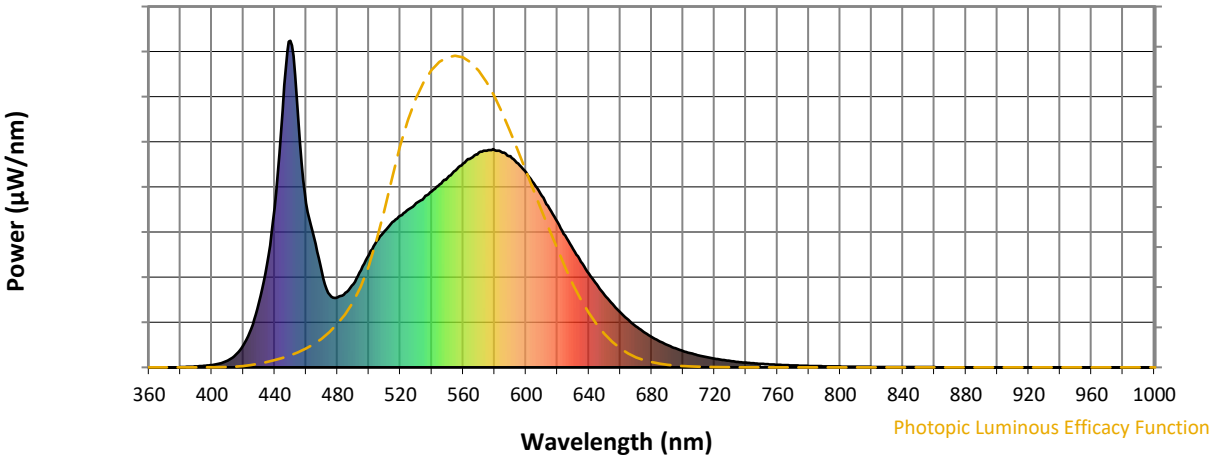


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

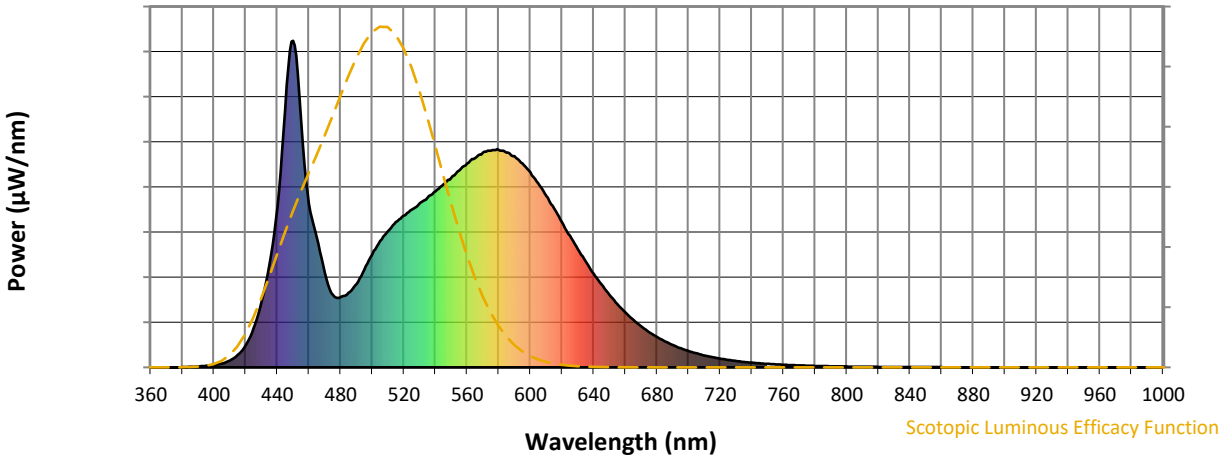


Photopic Lumens: NR

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

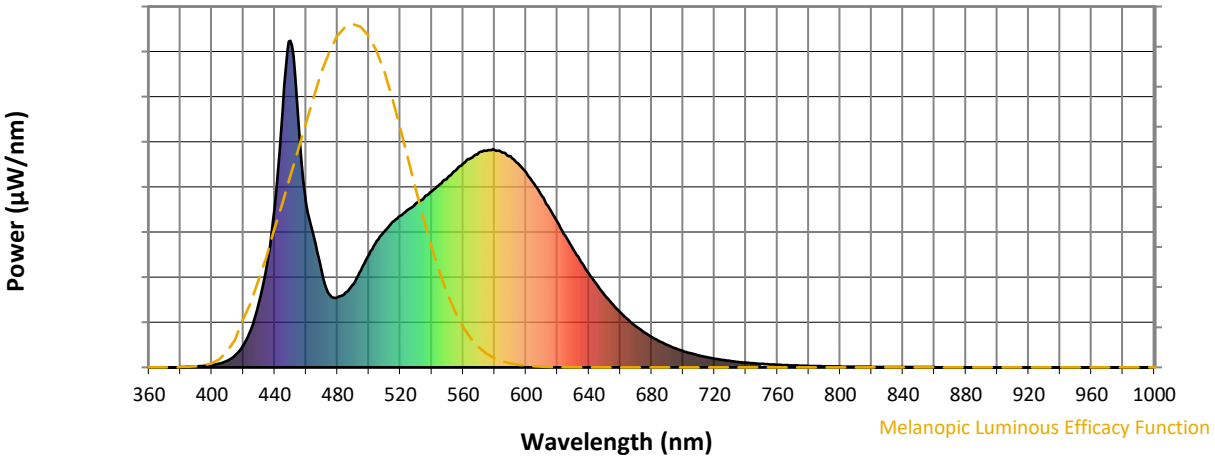


Scotopic Lumens: NR **S/P: 1.87**

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			

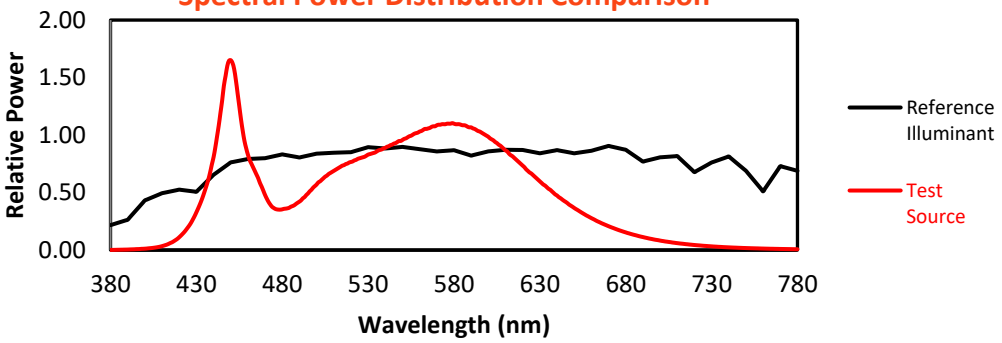
REPORT NUMBER: SP1-2501-332-5

TM-30-18

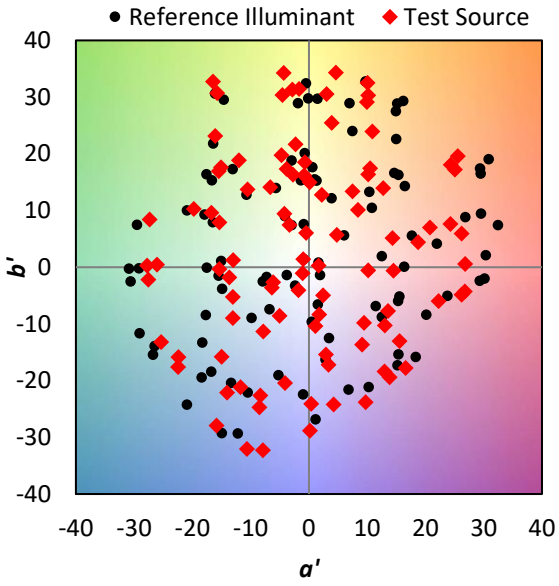
Summary

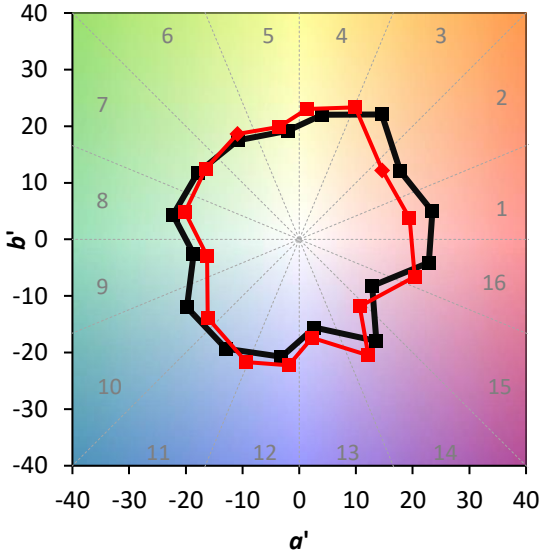
R_f = 78.3
R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

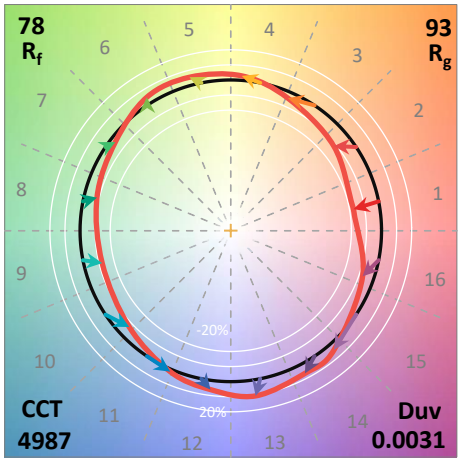
Spectral Power Distribution Comparison

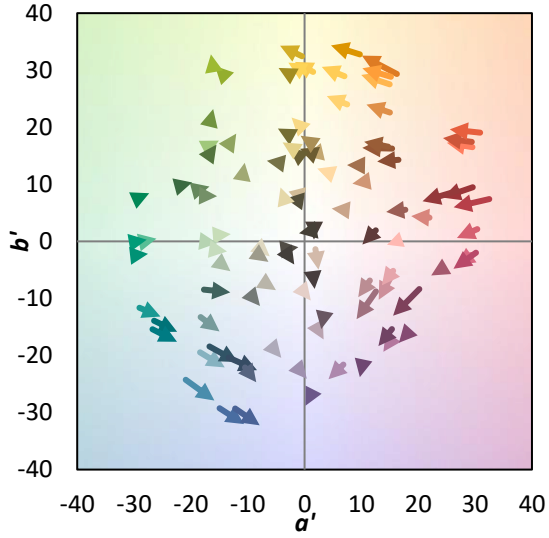


Color Vector Graphics







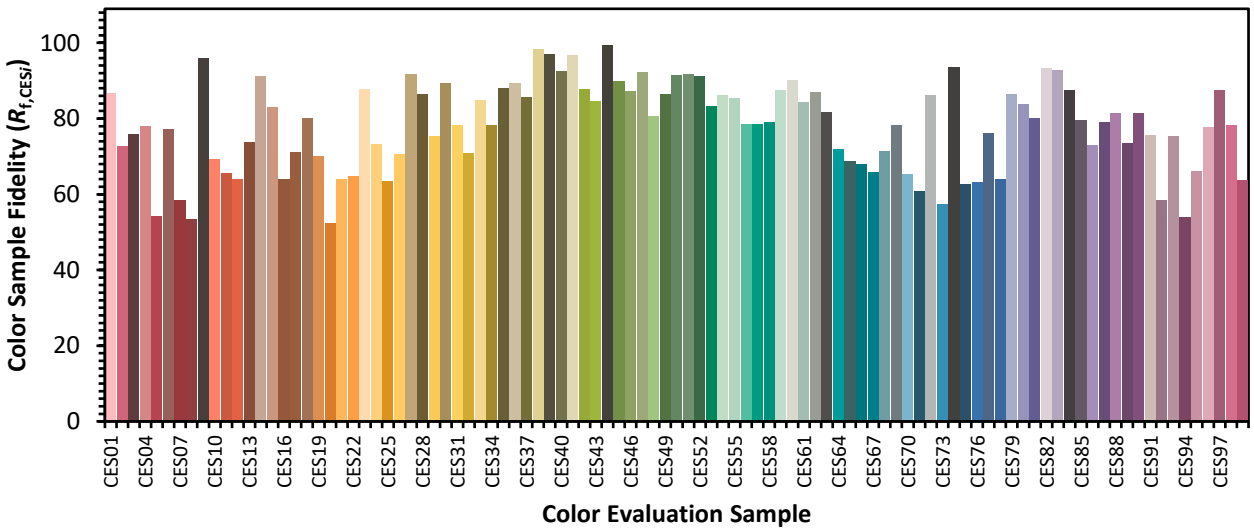


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

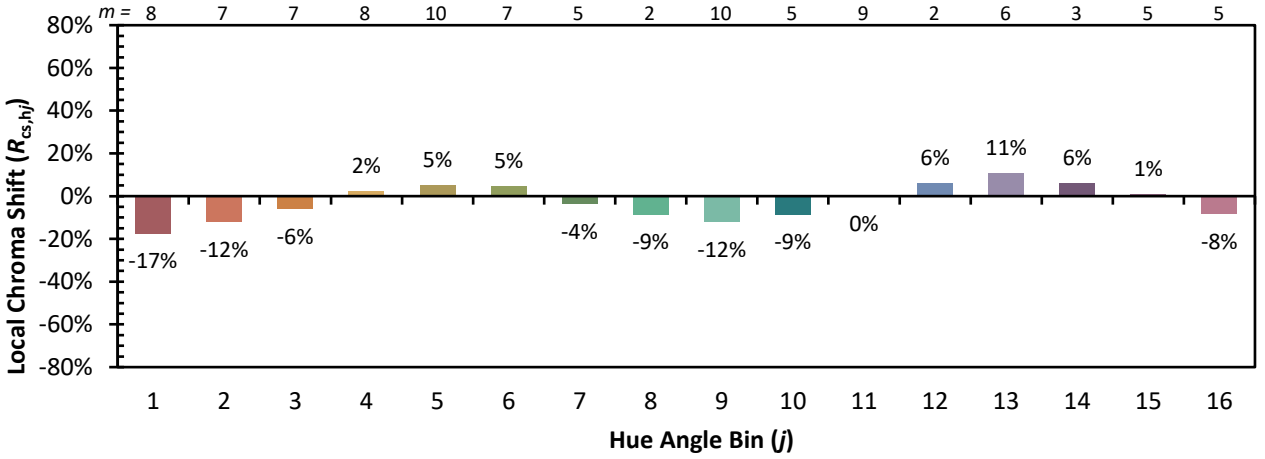
CES01 = 85	CES26 = 71	CES51 = 92	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82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

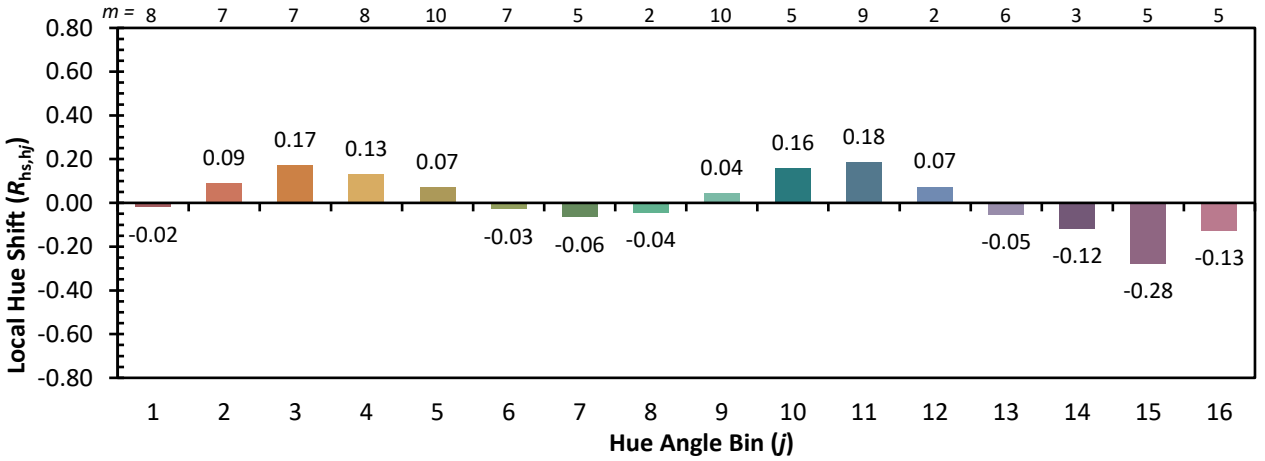


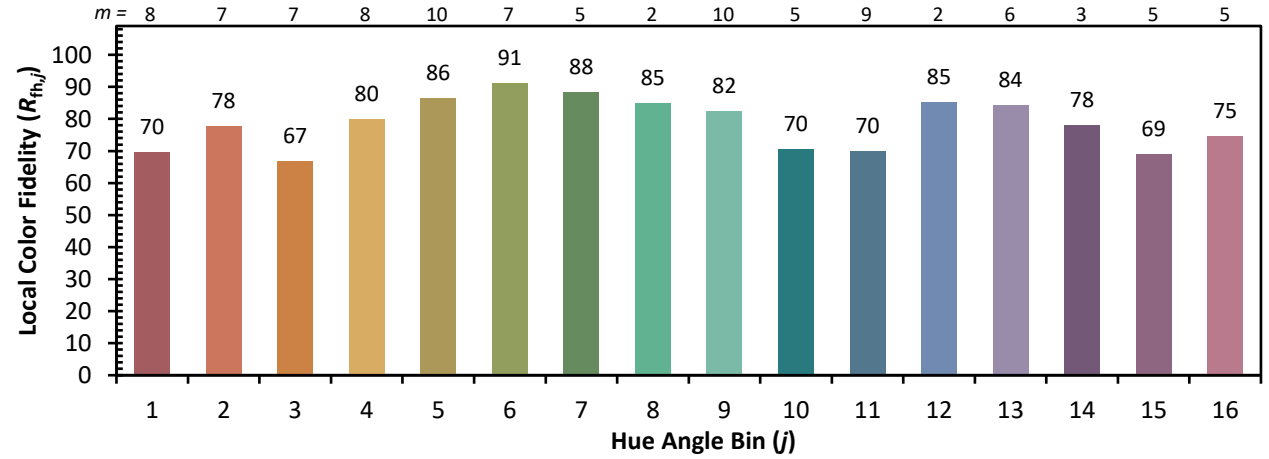
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



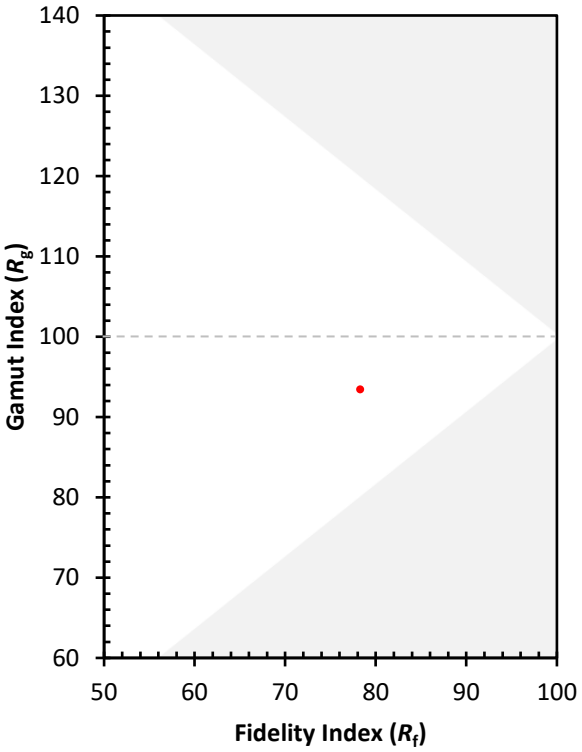


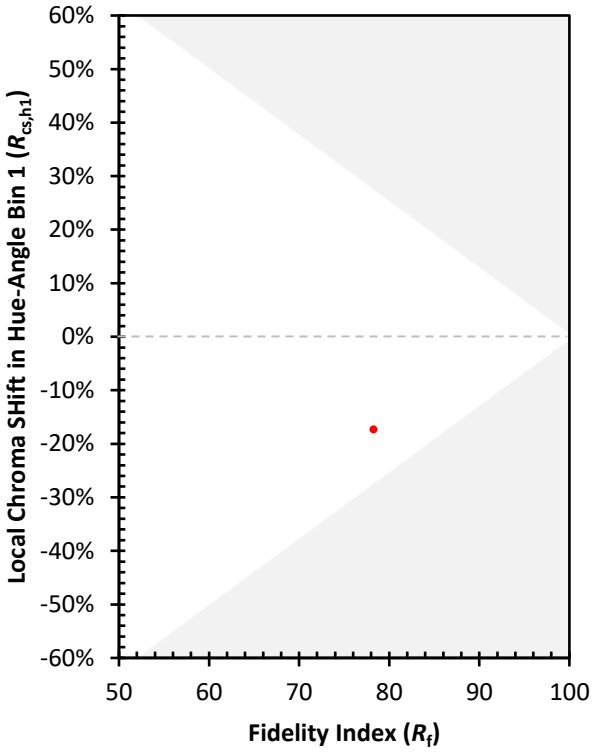


REPORT NUMBER: SP1-2501-332-5

TM-30-18

Measure Comparisons





(END OF REPORT)