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: P1223909

Luminaire Tested: **FFX-CLB-60-740-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:	P1223909
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-740-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9562 lumens
Efficiency:	N/A
Efficacy:	157.8 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):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

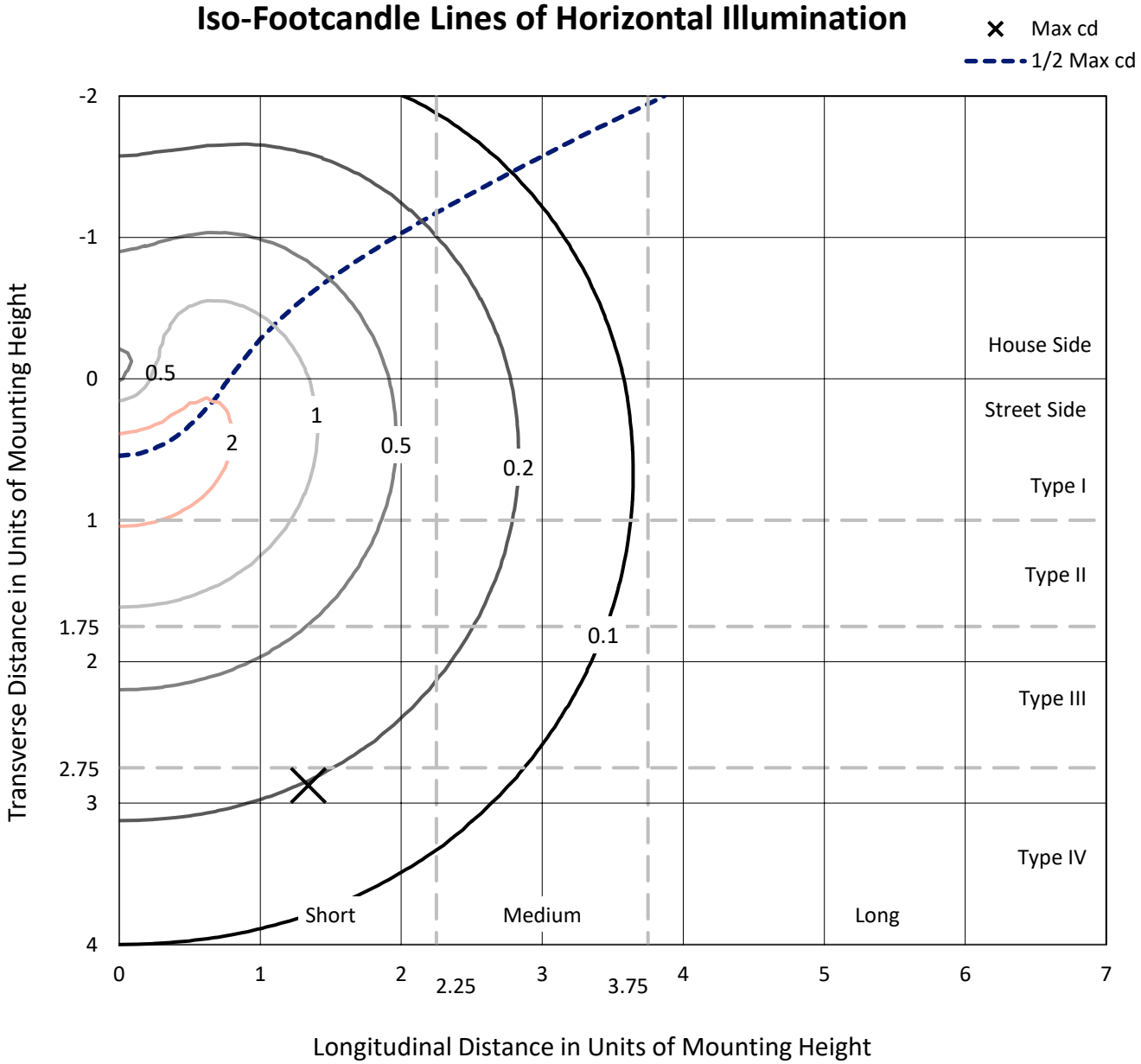


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223909
CATALOG NUMBER: FFX-CLB-60-740-U-VM9-T4

Iso-Footcandle Lines of Horizontal Illumination



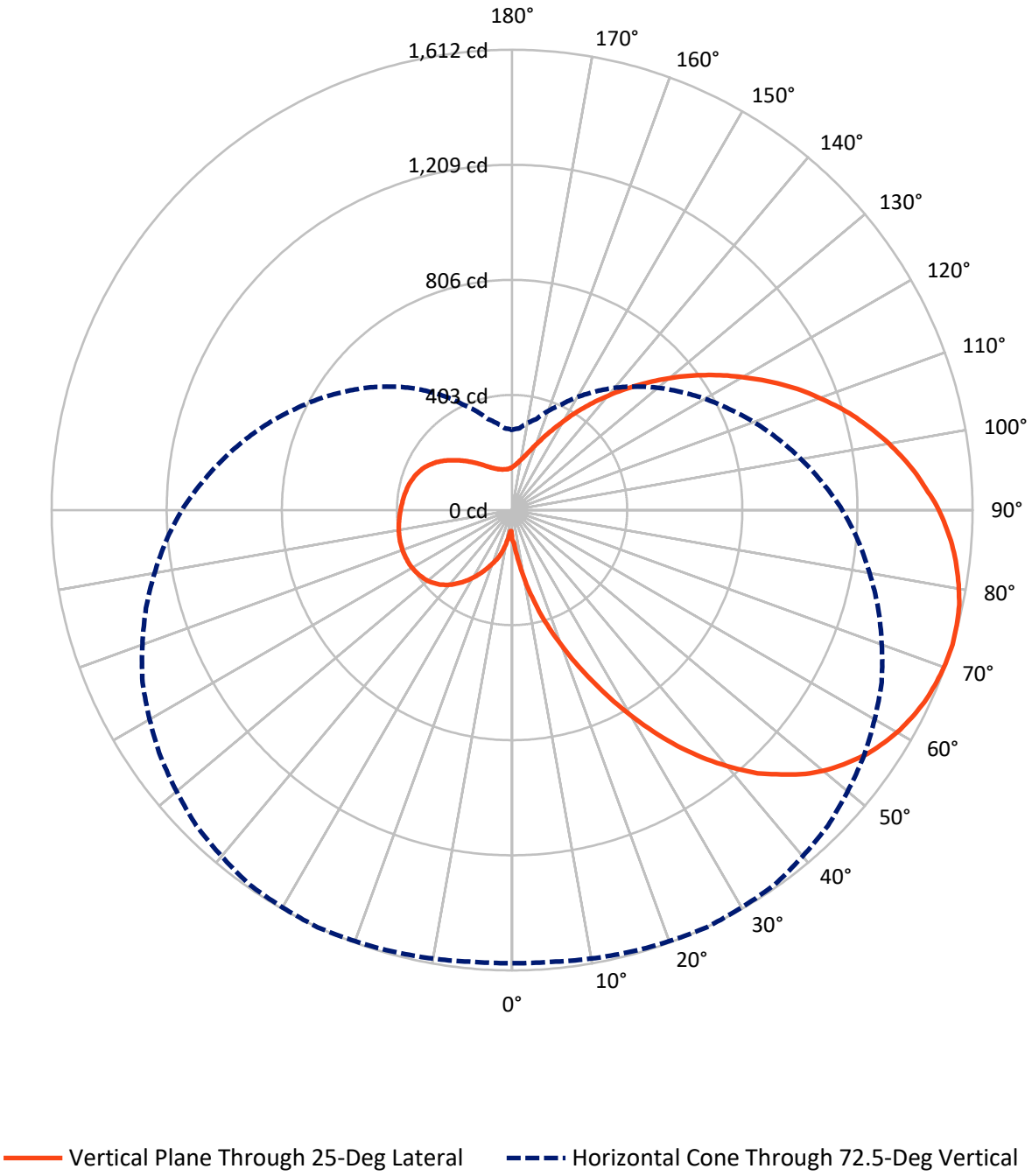
Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1223909
CATALOG NUMBER: FFX-CLB-60-740-U-VM9-T4

Luminous Intensity Polar Plot



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

Scaled Data Report

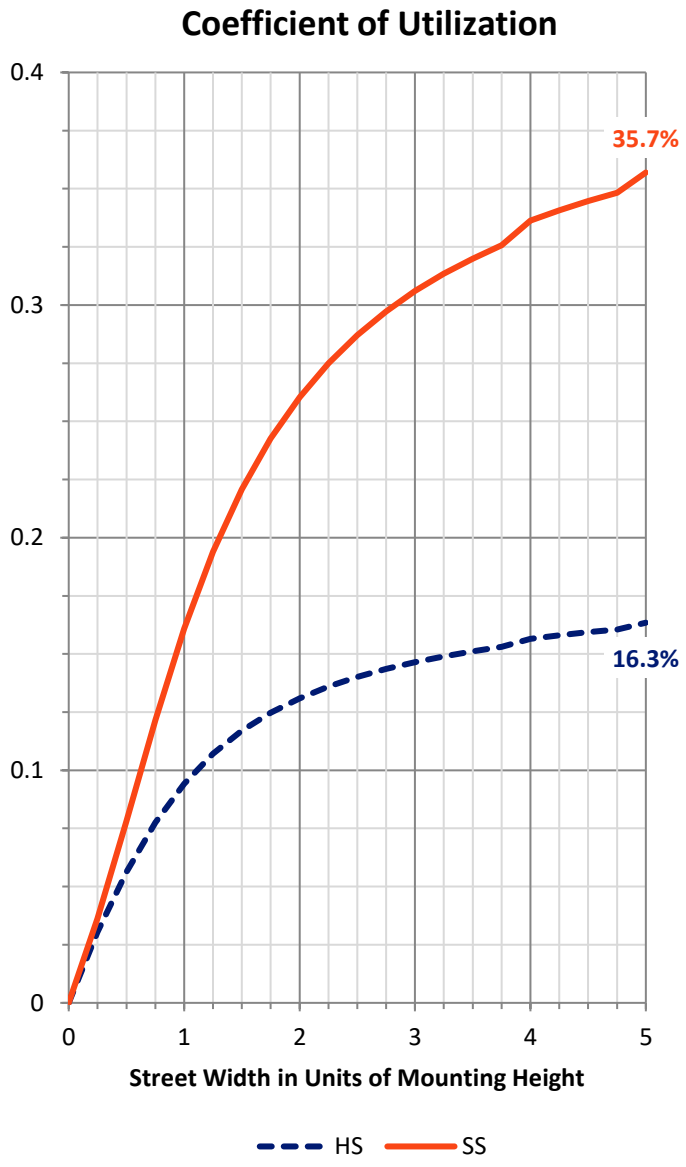
REPORT NUMBER: P1223909
CATALOG NUMBER: FFX-CLB-60-740-U-VM9-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.8	1318.4	3041.2
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	3896.4	2624.4	6520.8
	% Fixture	40.7	27.4	68.2
Total	Lumens	5619.3	3942.8	9562.0
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.1
10°-20°	81.1	0.8
20°-30°	221.2	2.3
30°-40°	438.2	4.6
40°-50°	684.1	7.2
50°-60°	896.7	9.4
60°-70°	1046.4	10.9
70°-80°	1122.7	11.7
80°-90°	1115.3	11.7
90°-100°	1034.7	10.8
100°-110°	901.1	9.4
110°-120°	729.1	7.6
120°-130°	536.7	5.6
130°-140°	354.9	3.7
140°-150°	210.0	2.2
150°-160°	110.4	1.2
160°-170°	51.1	0.5
170°-180°	14.7	0.2
0°-90°	5619.3	58.8
0°-180°	9562.0	100.0



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

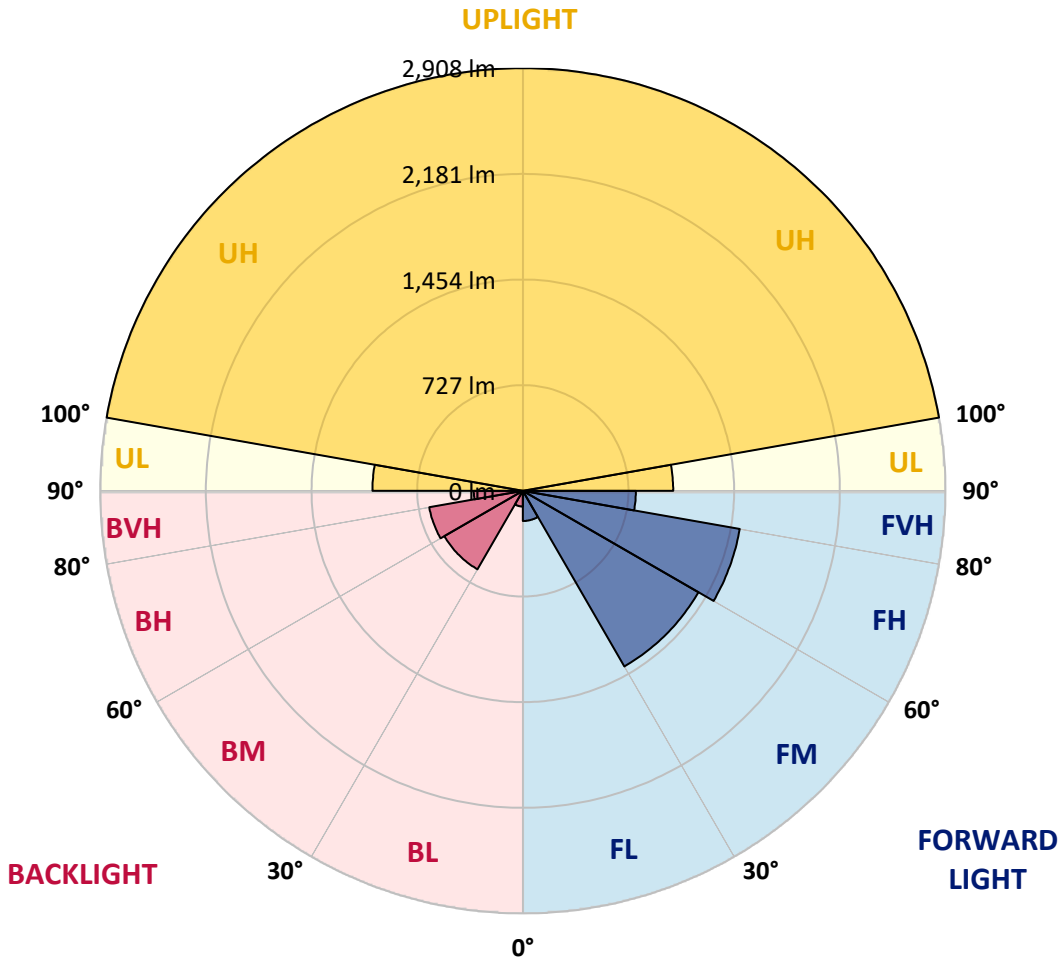
Scaled Data Report

REPORT NUMBER: P1223909
CATALOG NUMBER: FFX-CLB-60-740-U-VM9-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	207.7	2.2			
FM	(30°-60°)	1395.6	14.6			
FH	(60°-80°)	1515.7	15.9			G1/1800
FVH	(80°-90°)	777.6	8.1			G5
BL	(0°-30°)	108.2	1.1	B0/110		
BM	(30°-60°)	623.5	6.5	B1/1000		
BH	(60°-80°)	653.4	6.8	B2/1000		G2/1000
BVH	(80°-90°)	337.7	3.5			G3/500
UL	(90°-100°)	1034.7	10.8		U5	
UH	(100°-180°)	2908.0	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: P1223909
CATALOG NUMBER: FFX-CLB-60-740-U-VM9-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	103.9	103.9	103.9	*103.9*	103.9	103.9	103.9	103.9	103.9	103.9	103.9
2.5°	111.6	111.6	113.5	*114.2*	114.8	114.8	115.5	114.8	112.3	109.0	107.1
5°	152.3	151.0	150.3	*151.0*	151.0	148.4	144.5	137.4	132.3	123.9	120.6
7.5°	203.9	202.6	200.6	*198.7*	198.7	192.3	185.8	180.0	171.0	159.4	155.5
10°	263.9	261.3	258.7	*254.8*	250.3	244.5	236.1	226.5	214.2	201.9	194.2
12.5°	322.6	321.9	320.6	*314.8*	306.4	301.3	292.3	278.7	263.2	246.4	240.0
15°	390.3	387.1	385.2	*380.6*	375.5	365.2	350.3	337.4	319.4	296.1	288.4
17.5°	452.9	451.6	447.7	*446.4*	438.1	427.1	410.3	391.0	369.0	347.7	336.1
20°	521.3	524.5	520.0	*516.1*	501.3	490.3	474.8	456.1	429.7	399.4	387.1
22.5°	597.4	600.6	593.5	*593.5*	581.3	563.2	541.3	519.4	486.4	454.8	439.4
25°	685.8	687.1	676.1	*671.6*	662.6	644.5	618.1	592.3	554.2	514.2	496.1
27.5°	769.7	772.3	765.8	*760.0*	745.2	727.7	698.7	668.4	625.2	577.4	557.4
30°	864.5	859.3	856.8	*846.4*	831.0	812.9	780.6	747.1	697.4	641.3	616.8
32.5°	948.4	944.5	946.4	*938.1*	915.5	895.5	865.2	824.5	766.4	707.7	680.0
35°	1034.8	1036.8	1034.2	*1025.2*	1011.6	985.2	943.9	898.1	840.0	771.0	741.3
37.5°	1123.2	1118.7	1115.5	*1107.7*	1094.2	1064.5	1023.9	972.3	905.2	832.3	799.3
40°	1199.3	1202.6	1198.7	*1185.8*	1173.5	1140.6	1096.1	1037.4	968.4	890.3	852.3
42.5°	1271.6	1270.3	1267.1	*1260.0*	1243.2	1208.4	1164.5	1104.5	1026.4	940.0	900.0
45°	1329.7	1331.0	1331.0	*1320.6*	1305.2	1273.5	1223.2	1161.9	1078.7	987.7	945.8
47.5°	1385.2	1387.1	1385.8	*1381.3*	1364.5	1327.1	1276.1	1212.9	1124.5	1031.0	983.9
50°	1434.2	1434.2	1433.5	*1429.7*	1413.5	1377.4	1325.2	1257.4	1165.8	1067.1	1020.6
52.5°	1474.8	1474.2	1474.8	*1470.3*	1453.5	1420.6	1366.4	1294.2	1202.6	1097.4	1052.3
55°	1507.1	1505.2	1509.7	*1507.7*	1492.9	1456.1	1398.7	1328.4	1233.5	1126.4	1078.7
57.5°	1532.9	1532.2	1538.1	*1536.1*	1521.3	1484.5	1427.7	1356.1	1259.3	1150.3	1098.1
60°	1554.2	1552.9	1560.6	*1560.6*	1545.8	1509.0	1452.9	1377.4	1280.0	1169.0	1116.1
62.5°	1569.0	1569.7	1576.8	*1579.3*	1566.4	1529.0	1470.3	1396.1	1296.8	1183.9	1130.3
65°	1579.3	1580.6	1589.0	*1594.2*	1581.3	1544.5	1483.9	1409.7	1310.3	1196.1	1141.3
67.5°	1585.8	1586.4	1598.1	*1603.2*	1592.9	1554.2	1495.5	1419.3	1319.3	1203.9	1149.7
70°	1588.4	1589.0	1601.9	*1609.7*	1599.3	1560.0	1500.6	1424.5	1325.2	1209.0	1154.2
72.5°	*1586.4*	*1587.7*	*1601.3*	*1611.6*	*1601.3*	*1562.6*	*1502.6*	*1427.1*	*1326.4*	*1214.8*	*1155.5*
75°	1580.0	1581.3	1596.8	*1607.1*	1599.3	1559.3	1499.3	1424.5	1324.5	1209.7	1153.5
77.5°	1569.0	1571.0	1587.1	*1600.0*	1591.0	1552.9	1492.9	1417.4	1317.4	1203.2	1146.4
80°	1552.9	1553.5	1571.6	*1584.5*	1578.1	1540.0	1480.0	1405.2	1305.8	1192.3	1136.8
82.5°	1532.2	1534.8	1552.2	*1566.4*	1560.6	1521.3	1463.2	1389.7	1291.0	1178.7	1122.6
85°	1510.3	1512.9	1529.0	*1544.5*	1537.4	1500.6	1442.6	1369.7	1271.0	1160.0	1106.4
87.5°	1483.9	1485.8	1501.3	*1517.4*	1511.0	1474.2	1418.1	1346.4	1250.3	1142.6	1087.7
90°	1454.8	1456.8	1471.6	*1487.1*	1478.7	1443.9	1389.0	1318.7	1225.2	1119.3	1066.4
92.5°	1423.9	1424.5	1441.3	*1449.7*	1445.2	1414.2	1360.0	1292.2	1198.7	1095.5	1045.8
95°	1389.0	1389.0	1405.2	*1414.2*	1406.4	1377.4	1326.4	1258.7	1167.7	1071.0	1020.0
97.5°	1351.0	1352.2	1364.5	*1373.5*	1371.0	1340.6	1292.2	1227.7	1140.6	1044.5	996.1
100°	1311.6	1311.6	1322.6	*1330.3*	1324.5	1300.0	1254.2	1194.8	1106.4	1016.1	969.0
102.5°	1270.3	1269.7	1278.7	*1284.5*	1280.6	1258.1	1215.5	1156.8	1074.2	986.4	941.9
105°	1224.5	1222.6	1231.6	*1238.1*	1234.2	1214.2	1178.1	1121.3	1041.3	957.4	914.8
107.5°	1175.5	1178.7	1183.9	*1187.7*	1184.5	1167.1	1132.9	1082.6	1007.1	927.1	885.8
110°	1129.0	1131.0	1131.6	*1136.1*	1135.5	1121.3	1092.3	1041.9	970.3	894.8	854.8

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

Scaled Data Report

REPORT NUMBER: P1223909
CATALOG NUMBER: FFX-CLB-60-740-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1081.9	1081.3	1081.9	*1085.2*	1085.2	1071.0	1043.2	999.3	934.2	860.6	823.9
115°	1031.0	1028.4	1029.0	*1029.7*	1032.3	1021.3	997.4	956.1	892.3	827.1	791.0
117.5°	978.1	977.4	976.1	*974.2*	974.2	969.7	949.0	912.3	851.6	787.1	756.8
120°	927.7	925.2	921.9	*920.0*	921.3	916.1	899.3	862.6	809.0	751.0	720.6
122.5°	869.7	871.6	869.7	*867.1*	867.7	862.6	848.4	817.4	763.9	708.4	681.3
125°	820.0	819.3	816.8	*812.9*	812.9	811.0	795.5	768.4	720.6	667.7	642.6
127.5°	764.5	765.2	762.6	*760.6*	761.9	758.1	747.7	716.8	674.8	627.7	603.2
130°	712.3	711.6	711.0	*707.1*	710.3	703.2	694.2	668.4	628.4	588.4	565.8
132.5°	663.2	659.4	656.8	*656.1*	655.5	654.8	643.9	621.3	587.7	547.7	525.8
135°	614.2	611.0	607.7	*606.4*	607.7	604.5	594.8	576.1	545.2	506.4	489.7
137.5°	563.9	562.6	562.6	*559.4*	559.4	556.8	548.4	532.9	503.9	470.3	453.5
140°	518.7	516.1	514.8	*512.9*	514.8	512.3	503.2	488.4	463.9	434.8	418.7
142.5°	472.3	469.7	471.6	*469.7*	467.7	466.4	458.7	447.1	425.8	399.4	385.8
145°	429.0	429.0	427.7	*428.4*	427.1	425.8	418.1	407.1	389.0	364.5	354.8
147.5°	388.4	389.7	388.4	*389.7*	389.7	384.5	379.4	370.3	353.5	334.2	323.9
150°	350.3	352.3	351.0	*350.3*	351.0	348.4	341.3	336.1	321.3	304.5	294.2
152.5°	318.1	319.4	319.4	*318.1*	317.4	316.1	309.0	301.9	290.3	277.4	270.3
155°	287.7	287.7	288.4	*289.0*	287.1	283.2	280.6	274.8	264.5	252.9	245.8
157.5°	262.6	261.9	262.6	*261.9*	261.3	257.4	253.5	249.0	240.6	230.3	226.5
160°	238.7	238.7	239.4	*238.7*	236.1	234.2	231.0	227.1	220.0	212.9	207.7
162.5°	219.4	219.4	219.4	*218.7*	216.1	215.5	211.6	207.7	201.9	196.1	192.3
165°	202.6	202.6	201.9	*201.9*	200.6	198.7	195.5	192.3	187.1	182.6	180.0
167.5°	189.0	188.4	187.7	*187.1*	186.5	184.5	181.3	179.4	175.5	171.6	169.7
170°	177.4	177.4	176.8	*176.8*	175.5	173.5	171.6	169.0	166.5	162.6	161.3
172.5°	167.1	167.1	167.1	*167.1*	165.2	164.5	162.6	160.6	158.7	156.1	154.8
175°	159.4	159.4	159.4	*159.4*	158.1	156.8	156.1	154.2	152.9	151.0	150.3
177.5°	153.5	153.5	153.5	*153.5*	152.9	151.6	151.0	149.7	148.4	147.7	147.1
180°	148.4	148.4	148.4	*148.4*	148.4	148.4	148.4	148.4	148.4	148.4	148.4

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

Scaled Data Report

REPORT NUMBER: P1223909
CATALOG NUMBER: FFX-CLB-60-740-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9
2.5°	105.2	101.3	96.1	90.3	85.8	80.0	74.2	71.0	69.0	67.7
5°	117.4	109.0	101.3	92.9	86.5	80.6	74.2	69.0	66.5	65.8
7.5°	149.7	138.1	126.5	116.1	107.1	98.1	91.6	86.5	83.2	83.2
10°	188.4	172.3	158.7	145.2	132.9	121.9	112.9	107.7	103.9	102.6
12.5°	232.3	212.9	194.2	178.7	160.6	148.4	137.4	130.3	125.8	125.2
15°	278.1	258.1	234.2	212.9	192.9	173.5	160.6	150.3	146.5	146.5
17.5°	321.9	296.1	269.7	243.9	219.4	196.8	178.7	167.1	161.3	160.0
20°	369.0	338.1	303.9	273.5	243.2	216.8	195.5	180.6	172.9	172.3
22.5°	417.4	381.3	344.5	304.5	269.7	238.1	212.9	195.5	185.8	184.5
25°	472.9	429.0	385.2	341.3	299.4	261.9	232.3	211.0	200.0	198.7
27.5°	534.2	479.4	427.1	376.8	327.7	286.4	251.0	226.5	212.9	212.3
30°	590.3	529.7	470.3	412.3	358.7	309.0	269.7	241.3	226.5	224.5
32.5°	646.4	579.4	512.3	448.4	386.4	332.9	288.4	255.5	238.1	236.8
35°	704.5	628.4	555.5	481.9	417.4	356.8	305.8	269.7	251.0	248.4
37.5°	758.7	676.8	596.8	518.7	444.5	378.7	322.6	283.2	261.9	258.7
40°	808.4	720.0	634.2	550.3	470.3	399.4	338.7	294.8	271.0	268.4
42.5°	854.2	760.6	668.4	578.1	494.2	417.4	352.3	304.5	278.1	275.5
45°	897.4	798.7	700.0	603.9	514.8	434.2	365.2	313.5	285.2	281.3
47.5°	934.2	831.0	725.2	625.8	533.5	448.4	374.8	320.0	290.3	286.4
50°	967.1	858.1	749.0	647.1	549.7	461.3	383.9	325.2	292.9	289.0
52.5°	993.5	883.2	769.7	663.9	564.5	471.6	390.3	329.7	295.5	291.6
55°	1019.3	903.9	787.7	678.7	575.5	481.3	395.5	332.3	296.8	292.3
57.5°	1040.6	921.3	802.6	690.3	586.4	487.7	400.0	333.5	296.8	291.6
60°	1056.1	934.8	814.2	700.0	593.5	493.5	403.2	334.2	296.1	291.0
62.5°	1069.7	945.8	822.6	708.4	600.6	498.1	406.4	334.8	294.8	289.7
65°	1080.0	954.8	829.7	713.5	605.2	501.9	407.1	334.2	292.9	287.7
67.5°	1088.4	960.6	834.2	718.1	608.4	503.9	408.4	333.5	291.6	285.8
70°	1091.6	963.2	836.8	720.0	610.3	505.2	408.4	332.3	289.0	283.2
72.5°	*1091.0*	*963.2*	*837.4*	*720.6*	*611.0*	*505.8*	*407.7*	*330.3*	*287.1*	*281.3*
75°	1089.0	961.3	836.1	720.0	610.3	505.2	407.1	329.0	285.2	280.0
77.5°	1083.9	956.1	831.6	717.4	609.0	503.2	405.2	327.7	283.9	277.4
80°	1074.8	948.4	825.2	711.6	604.5	501.3	403.2	325.2	281.3	276.1
82.5°	1061.9	938.7	817.4	706.4	600.6	497.4	400.6	323.9	280.0	274.8
85°	1047.1	926.4	807.1	698.7	594.8	493.5	397.4	321.3	278.7	273.5
87.5°	1029.0	910.3	796.8	689.7	587.7	488.4	394.2	319.4	278.1	272.9
90°	1010.3	895.5	783.9	681.3	581.9	483.2	391.0	318.1	277.4	272.9
92.5°	989.7	879.3	771.6	670.3	574.2	478.1	387.7	316.8	277.4	272.9
95°	969.0	862.6	759.3	660.6	566.4	472.9	384.5	316.1	278.7	274.2
97.5°	944.5	843.2	744.5	650.3	557.4	467.1	381.9	315.5	279.4	275.5
100°	921.3	823.9	729.0	638.7	549.0	460.6	378.1	314.8	280.6	276.1
102.5°	896.1	805.2	713.5	626.4	540.0	453.5	374.8	314.2	281.9	278.1
105°	871.0	782.6	696.8	612.3	529.0	446.4	371.0	313.5	282.6	278.7
107.5°	843.2	761.3	678.1	598.7	518.1	438.7	365.8	312.3	283.2	279.4
110°	814.8	736.1	658.7	583.2	505.2	429.0	360.6	309.0	282.6	279.4

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

Scaled Data Report

REPORT NUMBER: P1223909
CATALOG NUMBER: FFX-CLB-60-740-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	787.7	712.3	637.4	565.8	491.6	419.4	353.5	305.8	280.6	278.1
115°	754.2	685.2	614.8	547.1	476.1	407.1	345.8	301.3	278.1	274.8
117.5°	723.2	656.8	591.0	527.1	460.0	394.8	336.8	295.5	273.5	271.0
120°	688.4	626.4	565.2	504.5	441.9	380.6	325.8	288.4	267.7	265.8
122.5°	654.2	596.8	538.7	481.3	422.6	364.5	314.8	279.4	261.3	259.4
125°	618.1	565.2	511.0	456.8	401.3	347.7	301.9	269.0	252.9	251.0
127.5°	581.3	532.3	481.3	431.0	380.6	331.0	288.4	258.7	243.2	242.6
130°	542.6	498.7	452.3	405.8	359.4	313.5	274.2	247.7	233.5	232.3
132.5°	507.7	467.1	423.9	380.0	336.1	296.1	260.6	236.1	223.9	222.6
135°	473.5	432.9	395.5	356.8	316.1	278.7	247.1	225.2	214.2	212.9
137.5°	438.7	403.2	368.4	332.3	295.5	261.9	234.2	214.8	205.2	203.9
140°	403.9	374.2	342.6	308.4	276.8	246.4	221.3	205.2	196.1	194.8
142.5°	372.3	343.9	315.5	285.8	257.4	231.6	209.7	194.2	186.5	185.8
145°	341.3	316.8	291.0	264.5	240.0	218.7	198.7	185.8	179.4	178.7
147.5°	313.5	291.6	268.4	245.8	224.5	204.5	188.4	177.4	171.0	170.3
150°	285.8	266.4	247.1	227.7	209.7	192.9	178.7	169.7	165.2	163.9
152.5°	261.3	245.8	228.4	212.3	196.1	181.9	171.0	162.6	158.7	158.1
155°	239.4	226.5	212.3	198.1	185.2	173.5	163.9	157.4	154.2	154.2
157.5°	220.6	209.7	198.1	186.5	176.1	166.5	158.7	153.5	151.0	150.3
160°	203.9	194.2	185.2	176.8	167.1	160.0	154.2	149.7	147.7	147.1
162.5°	188.4	181.9	174.8	167.7	160.6	154.8	150.3	147.1	145.8	145.8
165°	177.4	171.6	165.8	160.6	155.5	151.6	147.7	145.8	144.5	143.9
167.5°	167.7	163.2	159.4	155.5	151.6	148.4	145.8	144.5	143.2	143.2
170°	160.0	156.8	154.2	151.6	149.0	146.5	145.2	143.9	143.2	143.2
172.5°	153.5	151.6	149.7	148.4	146.5	145.2	143.9	143.2	143.2	143.2
175°	149.7	148.4	147.1	146.5	145.8	145.2	144.5	143.9	143.9	143.9
177.5°	147.1	146.5	146.5	145.8	145.8	145.8	145.8	145.8	145.8	145.8
180°	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4

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: SP1-2501-332-1

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

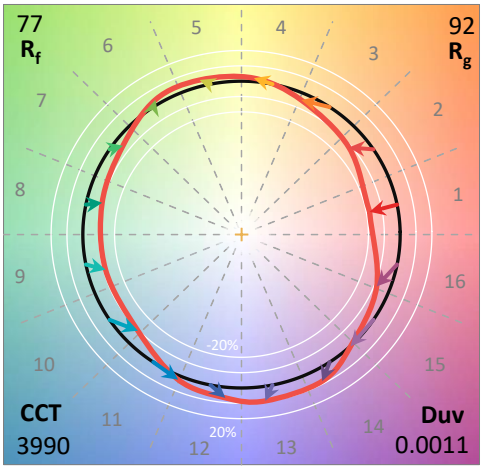
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-1
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-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3990	CRI (Ra):	73.9		
CIE u':	0.2247	R1:	69.6	R9:	-36.4
CIE v':	0.5031	R2:	83.0	R10:	60.9
Duv:	0.0011	R3:	93.1	R11:	66.8
CIE x:	0.3816	R4:	70.6	R12:	52.5
CIE y:	0.3798	R5:	70.6	R13:	72.5
CIE z:	0.2386	R6:	76.4	R14:	96.4
Peak Wavelength (nm):	450	R7:	79.8	R15:	61.3
Dominant Wavelength (nm):	578	R8:	48.1		
Purity:	28.50862				

Rf:	77.5
Rg:	91.9



Test Conditions

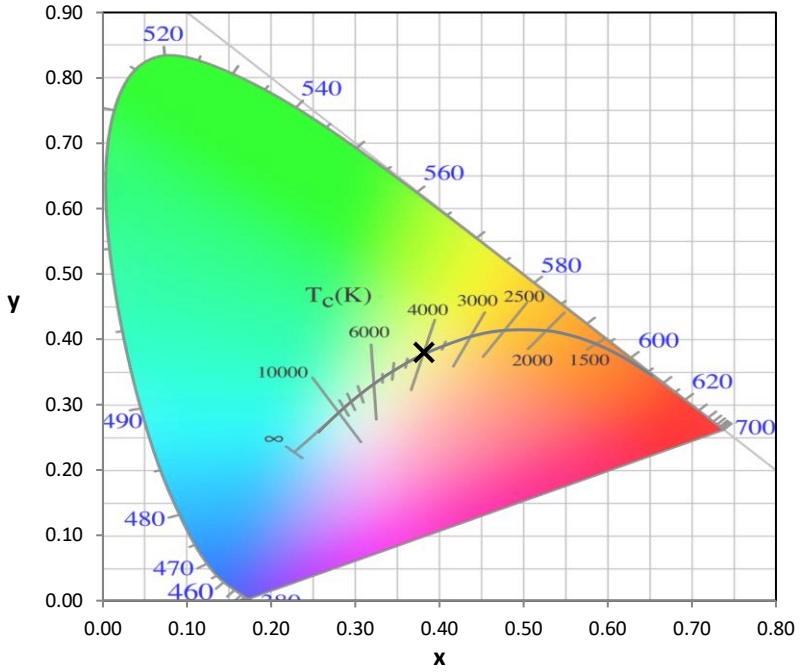
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

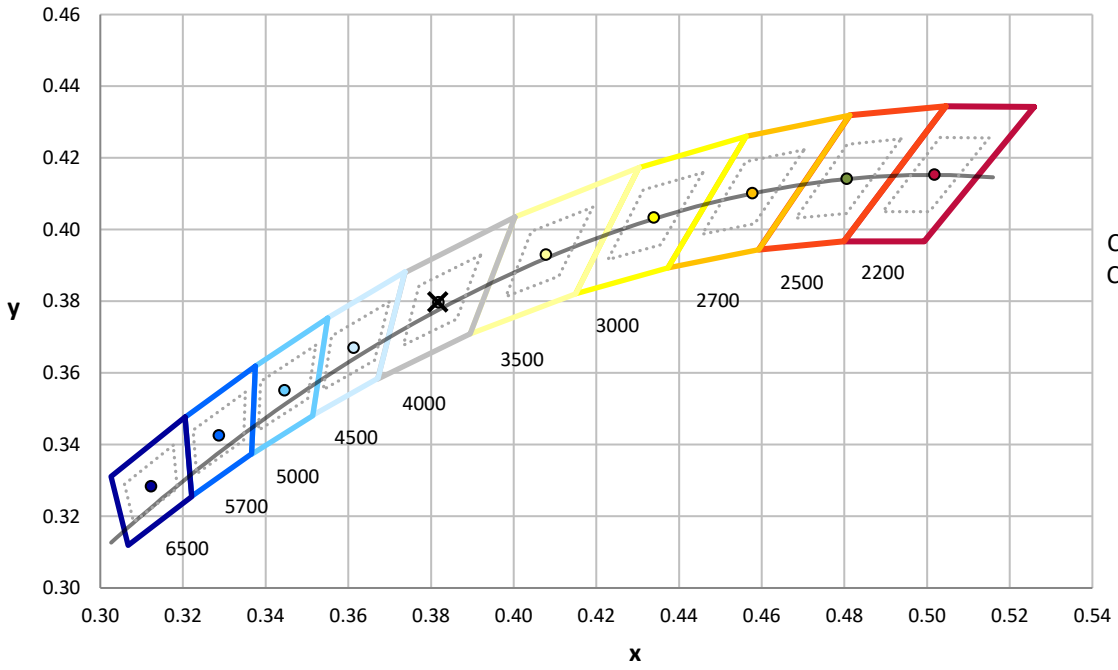
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-1

CIE 1931 Chromaticity Diagram



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

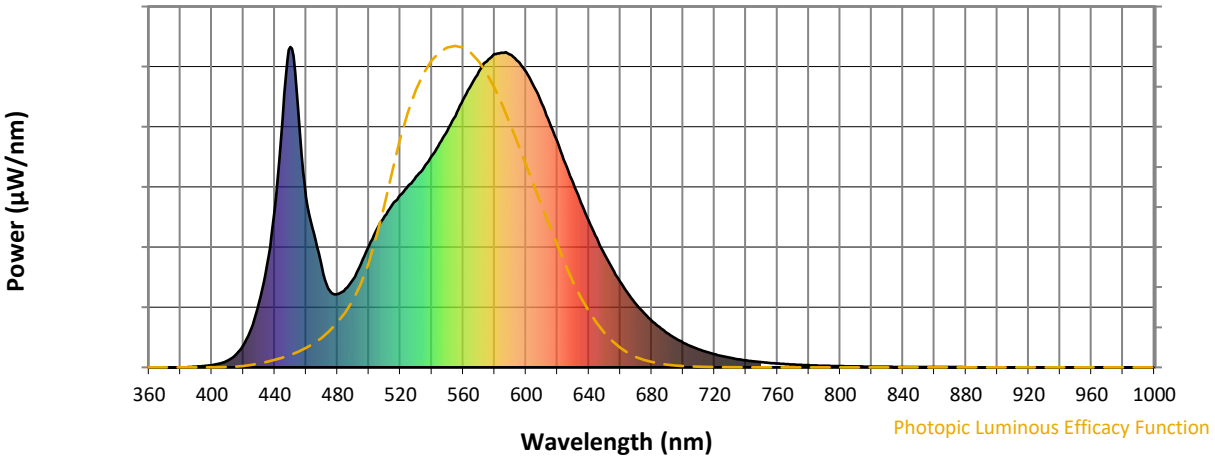


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

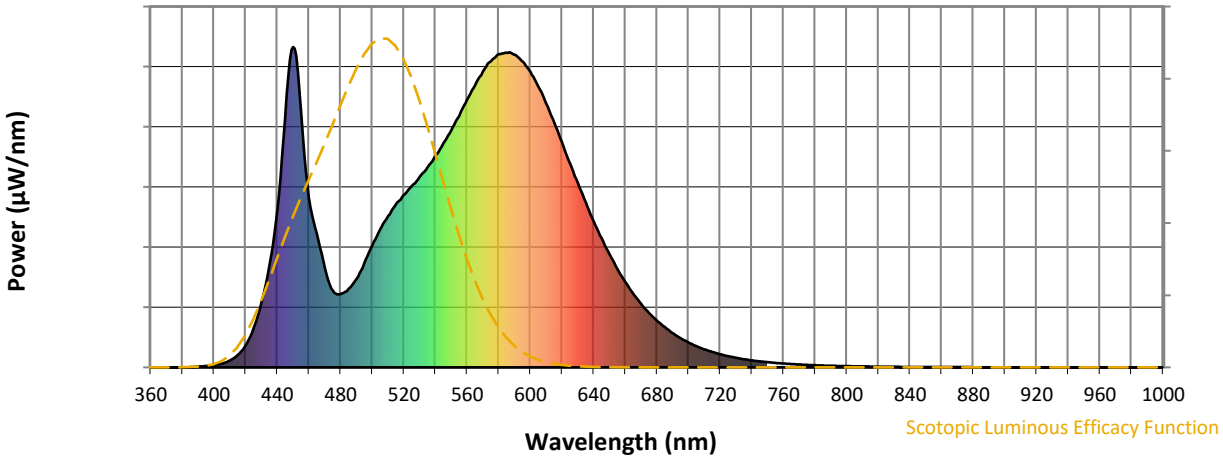


Photopic Lumens: NR

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Scotopic Flux vs. Wavelength

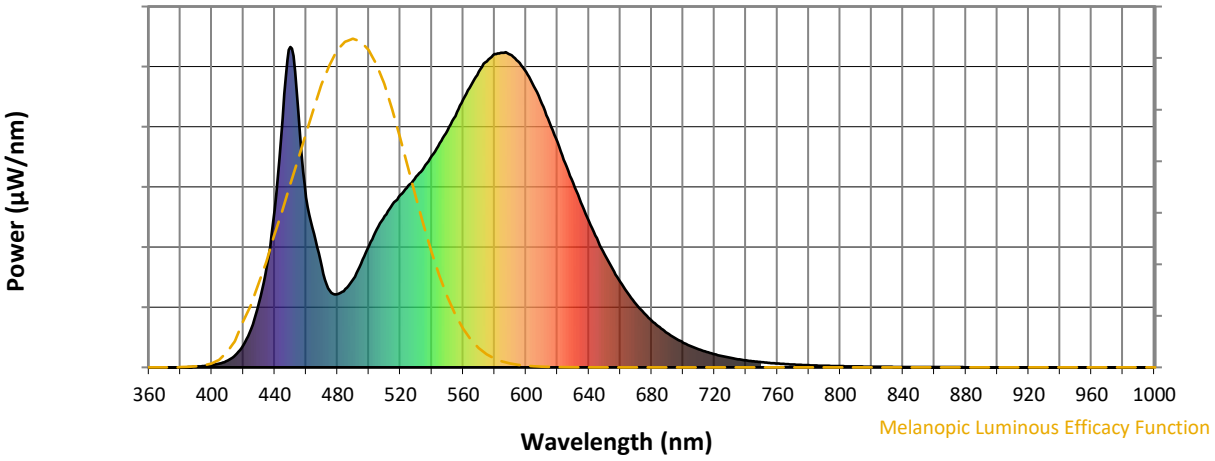


Scotopic Lumens: NR **S/P: 1.59**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.21**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

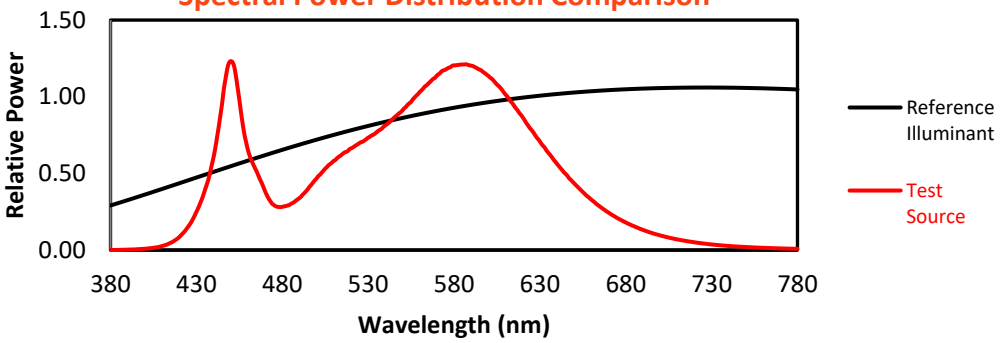
REPORT NUMBER: SP1-2501-332-1

TM-30-18

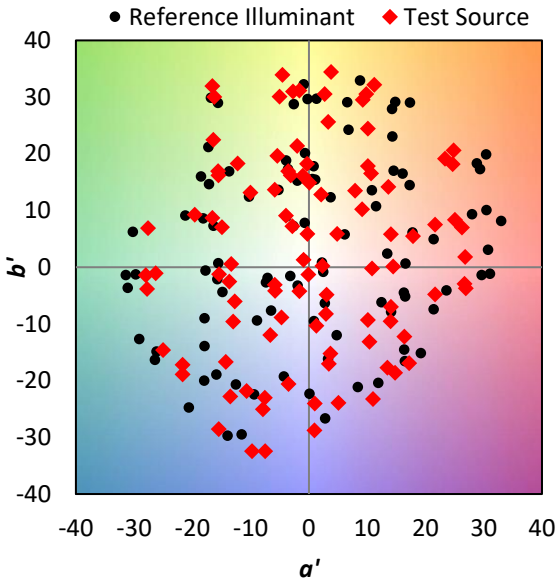
Summary

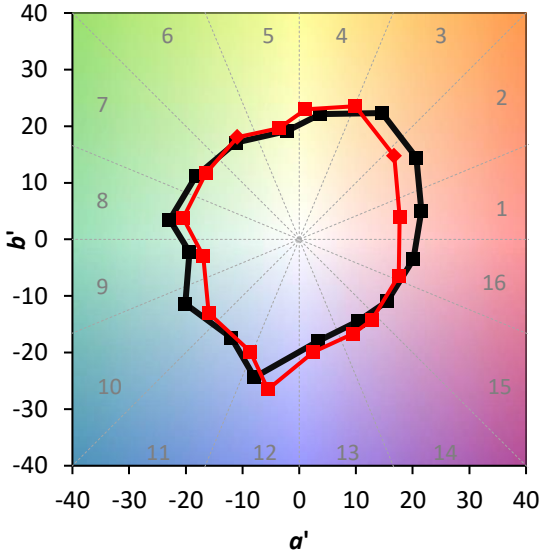
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

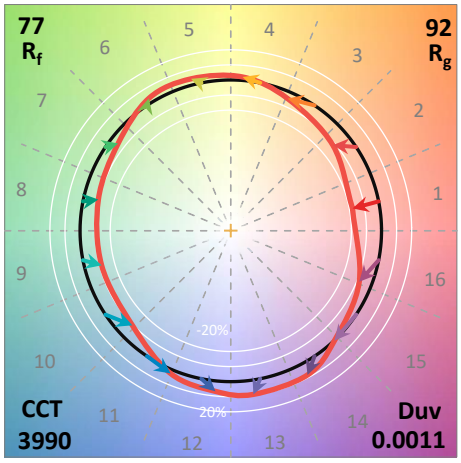
Spectral Power Distribution Comparison

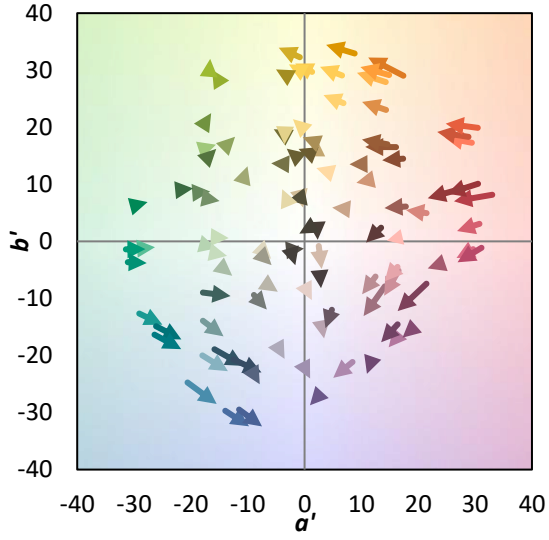


Color Vector Graphics







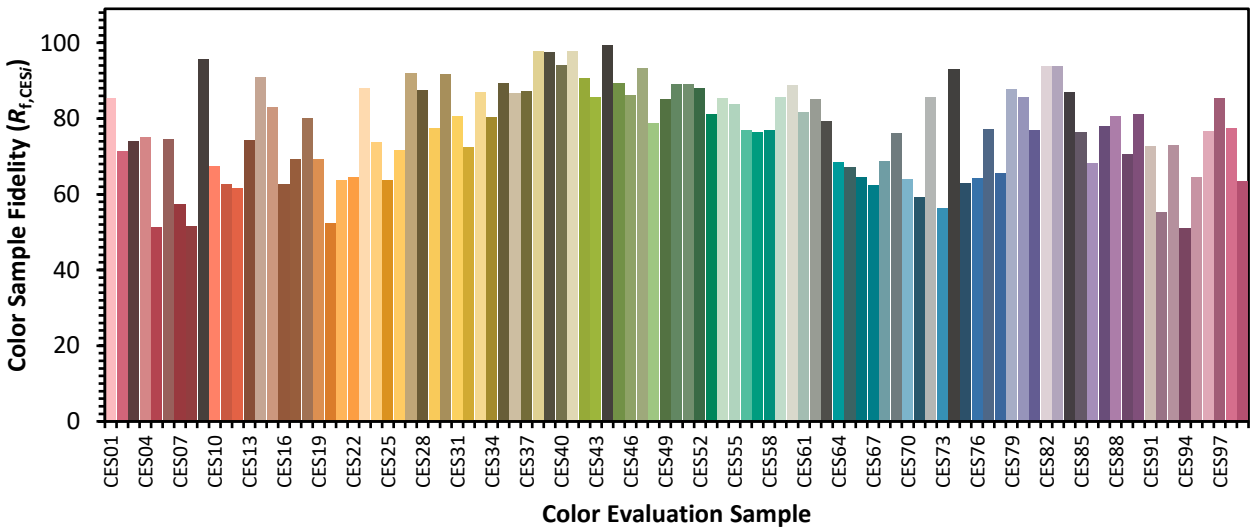


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

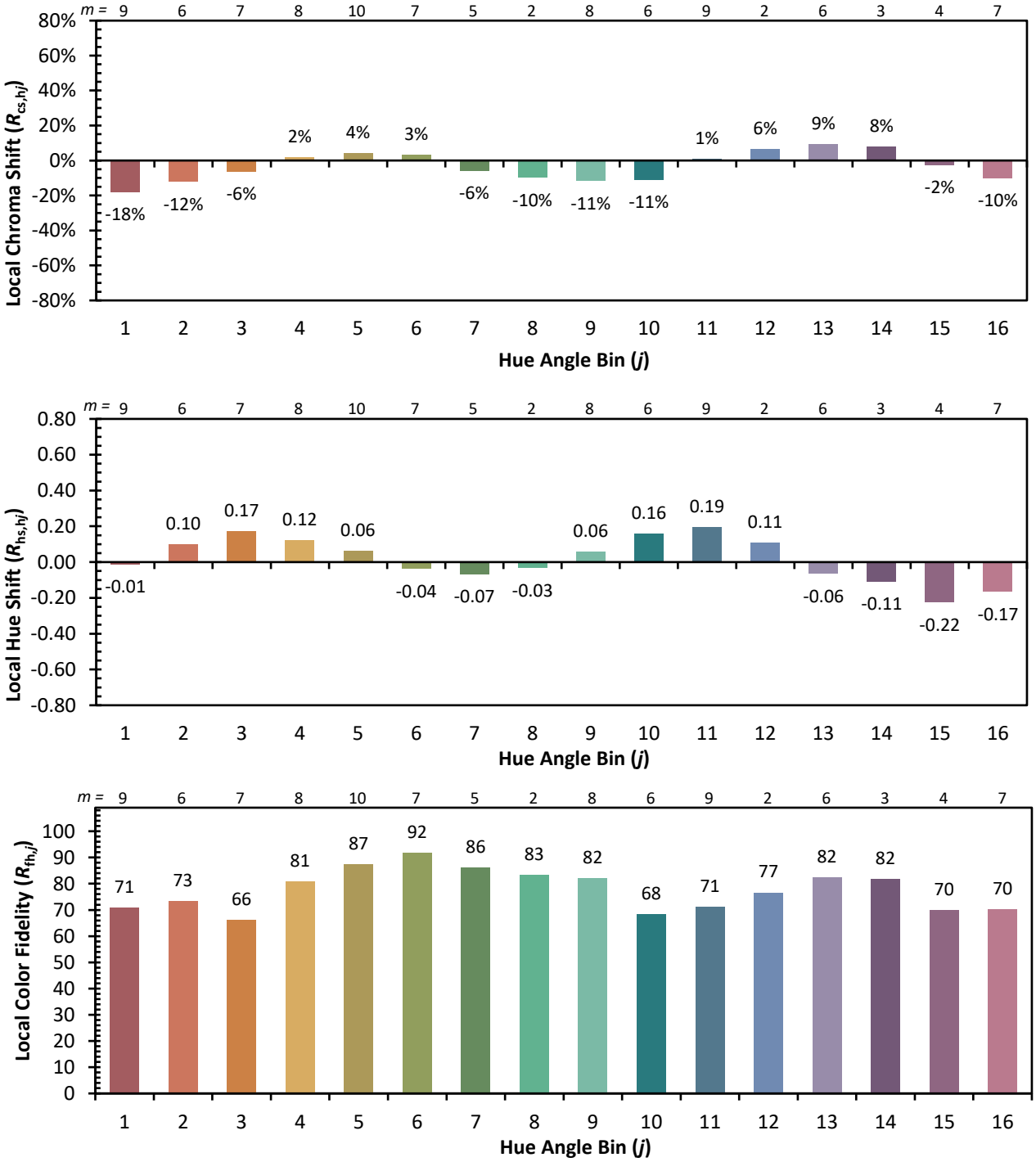
CES01 = 85	CES26 = 72	CES51 = 89	CES76 = 64
CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 89	CES60 = 89	CES85 = 76
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 68
CES12 = 63	CES37 = 87	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 81
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 67	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 65	CES91 = 73
CES17 = 49	CES42 = 91	CES67 = 62	CES92 = 55
CES18 = 56	CES43 = 86	CES68 = 69	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 65	CES45 = 89	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 77
CES22 = 78	CES47 = 93	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 79	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 93	CES99 = 63
CES25 = 72	CES50 = 89	CES75 = 63	



REPORT NUMBER: SP1-2501-332-1

TM-30-18

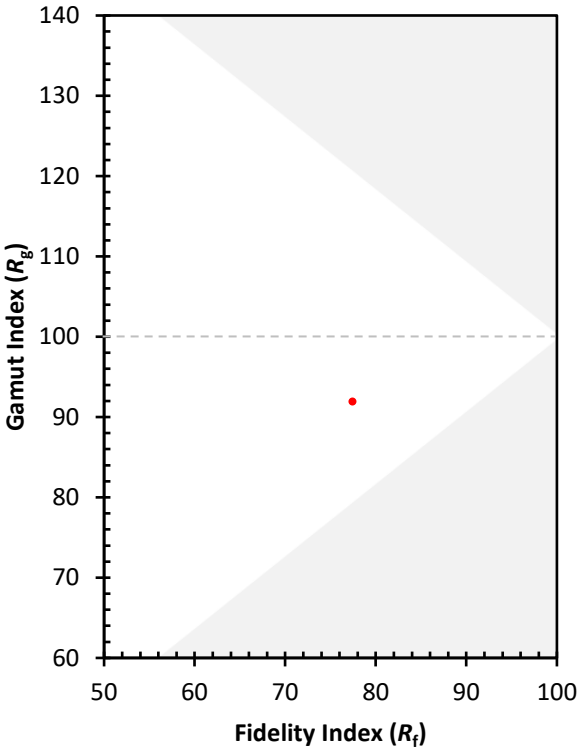
Color Rendition by Hue-Angle Bin

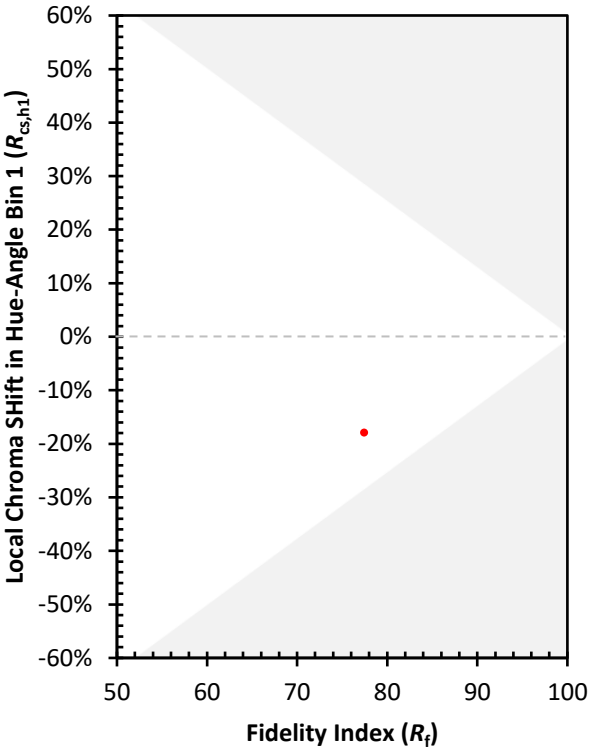


REPORT NUMBER: SP1-2501-332-1

TM-30-18

Measure Comparisons





(END OF REPORT)