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: P1045906

Luminaire Tested: **FFX-CLB-70-750-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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:	P1045906
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-750-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7915.5 lumens
Efficiency:	N/A
Efficacy:	111.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G4

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

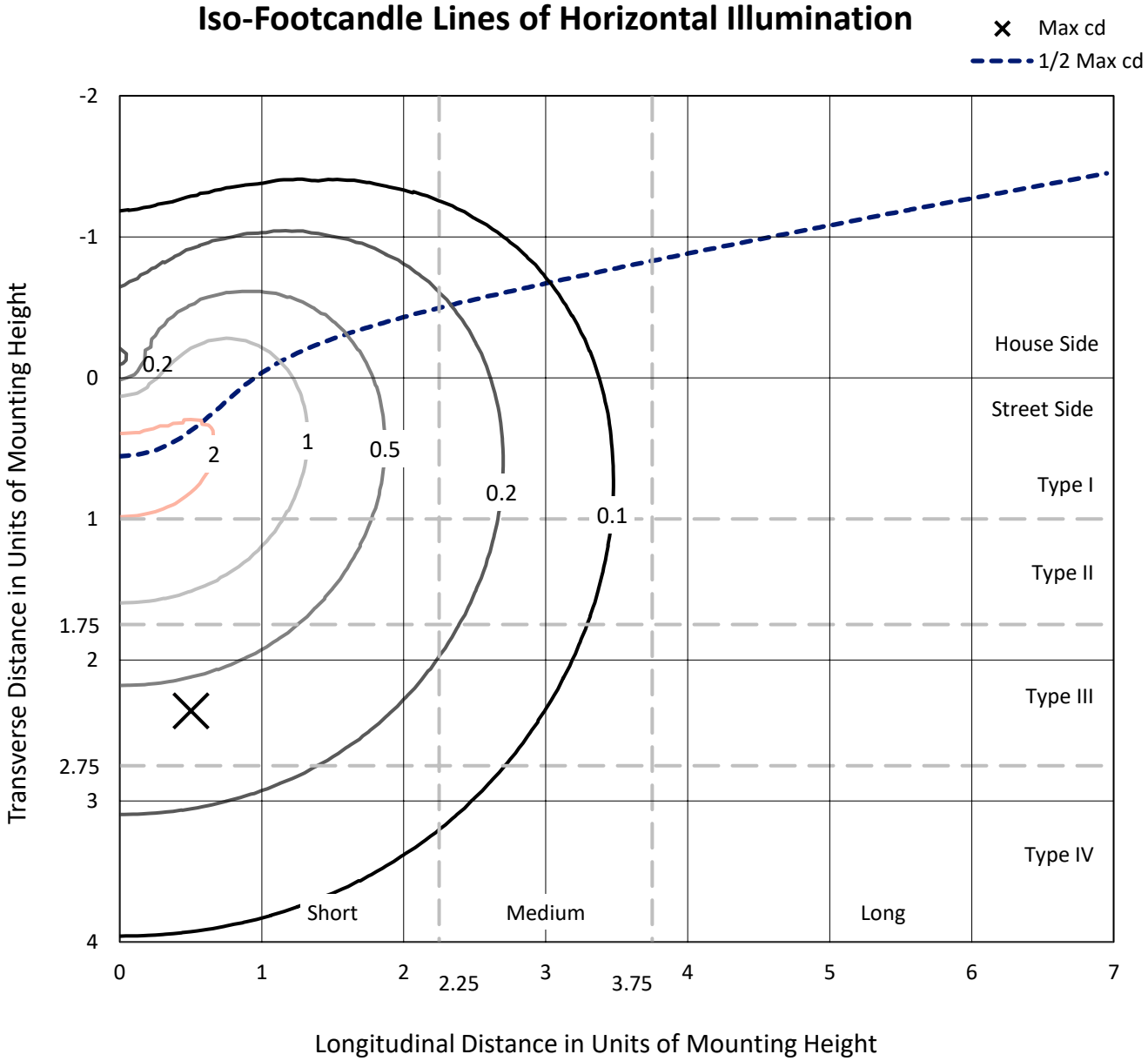


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045906
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



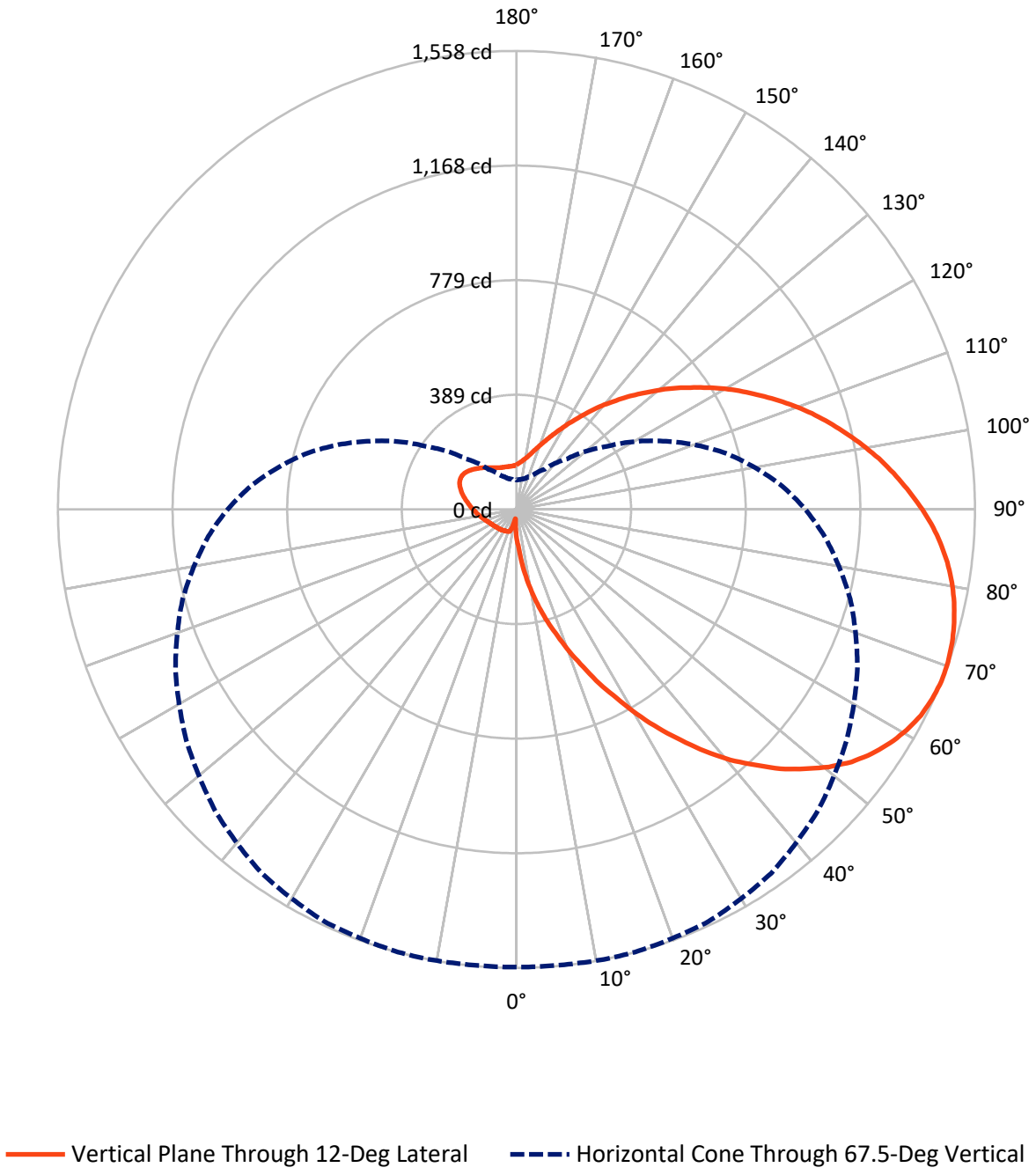
Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045906
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

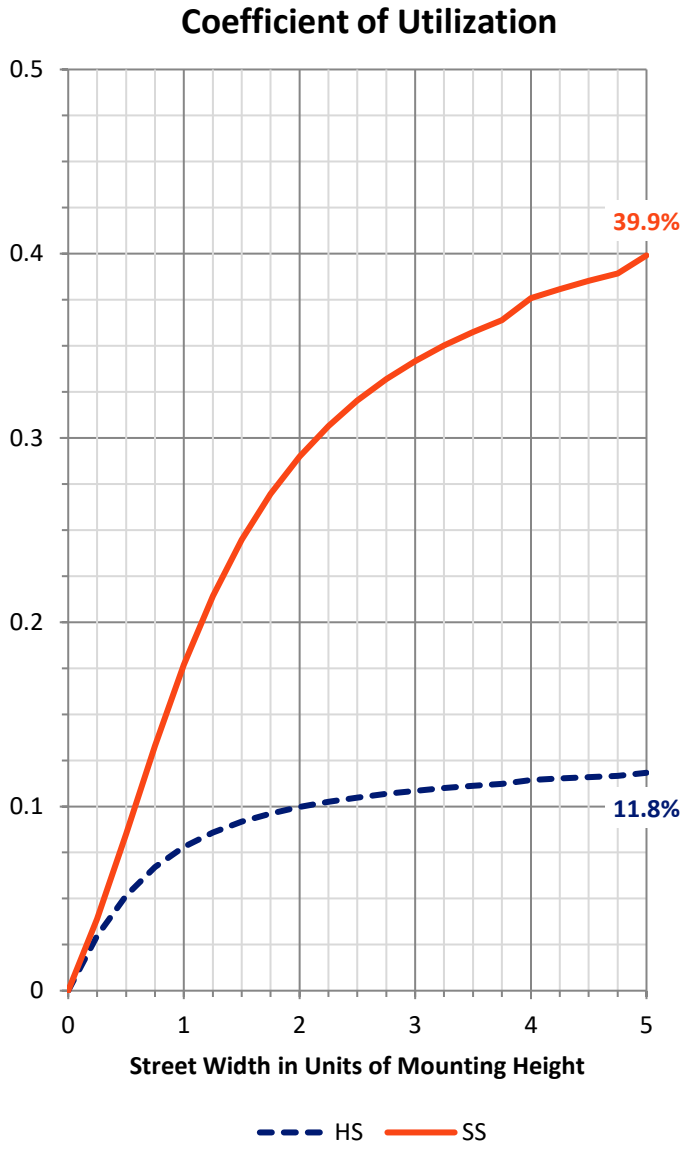
REPORT NUMBER: P1045906
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1018.6	985.9	2004.6
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	3601.5	2309.4	5910.9
	% Fixture	45.5	29.2	74.7
Total	Lumens	4620.2	3295.3	7915.5
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.2
10°-20°	70.5	0.9
20°-30°	183.7	2.3
30°-40°	356.5	4.5
40°-50°	559.8	7.1
50°-60°	743.0	9.4
60°-70°	865.9	10.9
70°-80°	920.0	11.6
80°-90°	908.4	11.5
90°-100°	837.5	10.6
100°-110°	730.9	9.2
110°-120°	600.9	7.6
120°-130°	454.9	5.7
130°-140°	310.7	3.9
140°-150°	190.5	2.4
150°-160°	104.5	1.3
160°-170°	50.4	0.6
170°-180°	14.9	0.2
0°-90°	4620.2	58.4
0°-180°	7915.5	100.0



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

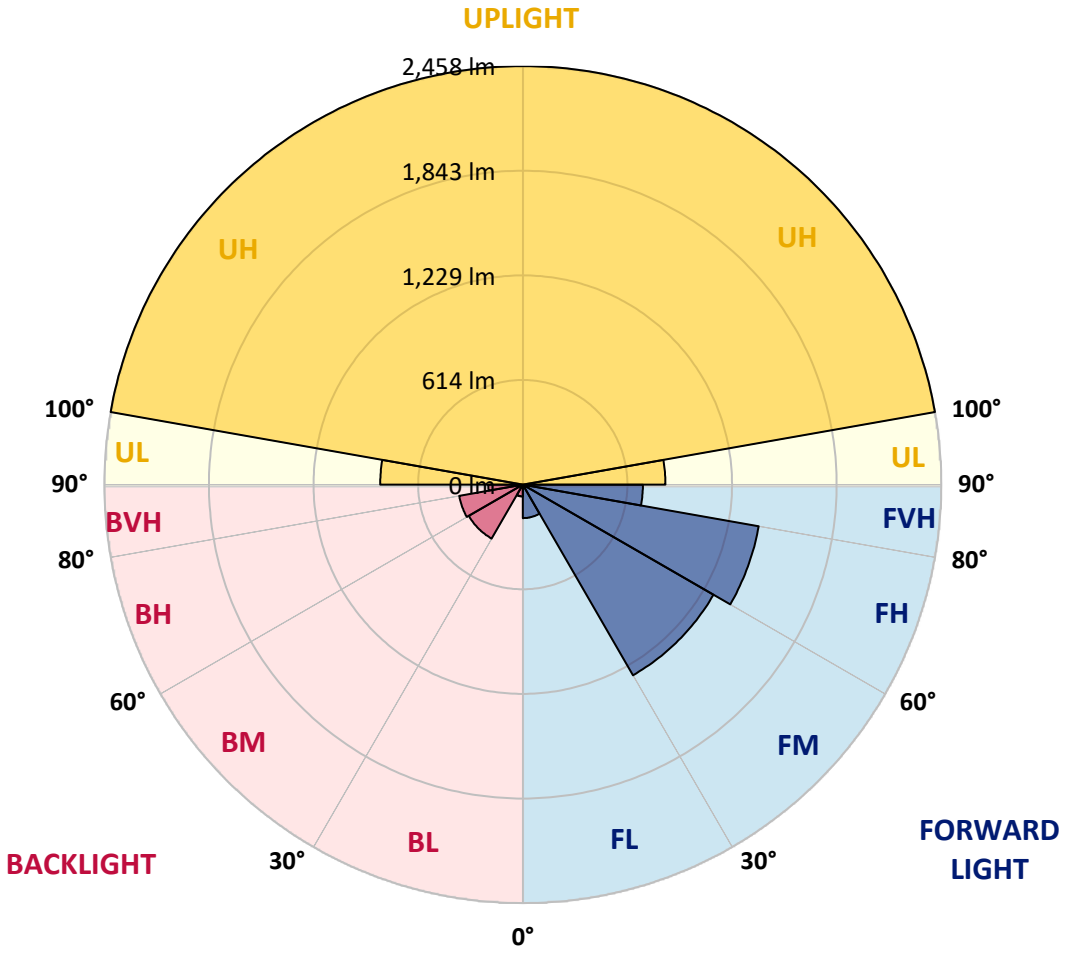
Scaled Data Report

REPORT NUMBER: P1045906
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	196.7	2.5			
FM	(30°-60°)	1293.2	16.3			
FH	(60°-80°)	1406.6	17.8			G1/1800
FVH	(80°-90°)	705.0	8.9			G4/750
BL	(0°-30°)	69.8	0.9	B0/110		
BM	(30°-60°)	366.2	4.6	B1/1000		
BH	(60°-80°)	379.3	4.8	B1/500		G1/500
BVH	(80°-90°)	203.3	2.6			G2/225
UL	(90°-100°)	837.5	10.6		U4/1000	
UH	(100°-180°)	2457.8	31.1		U5	

BUG Rating: B1-U5-G4
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1045906
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	100.1	100.1	*100.1*	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
2.5°	125.4	128.0	*125.4*	128.9	127.1	127.1	122.8	118.4	112.3	105.4	99.3
5°	177.6	176.8	*173.3*	176.8	173.3	168.9	162.0	150.6	139.3	128.9	115.8
7.5°	231.6	232.5	*229.9*	229.0	221.2	215.1	203.8	192.4	178.5	162.8	147.2
10°	290.0	288.2	*283.9*	284.7	276.0	263.8	250.8	237.7	222.0	203.8	183.7
12.5°	344.0	344.0	*340.5*	341.3	331.8	317.8	307.4	290.0	270.8	249.0	224.7
15°	401.4	397.9	*396.2*	396.2	386.6	374.4	363.1	344.0	321.3	296.9	269.1
17.5°	454.5	453.7	*451.9*	452.8	444.1	433.6	415.4	396.2	369.2	339.6	310.9
20°	522.5	519.0	*516.4*	512.0	506.8	492.9	475.4	450.2	423.2	391.0	352.7
22.5°	584.3	588.6	*581.7*	578.2	571.2	559.9	534.7	510.3	478.1	440.6	398.8
25°	655.7	659.2	*656.6*	652.2	642.6	627.0	603.5	576.5	538.1	495.5	445.8
27.5°	730.6	733.2	*726.2*	728.0	711.4	696.6	673.1	640.0	603.5	552.9	500.7
30°	804.6	809.8	*807.2*	801.1	787.2	774.1	746.3	711.4	669.6	613.9	553.8
32.5°	891.7	885.6	*886.5*	879.5	870.8	849.9	825.5	786.3	737.6	678.3	609.5
35°	972.7	970.1	*963.1*	966.6	951.8	932.6	902.1	860.3	807.2	741.9	666.1
37.5°	1044.9	1047.6	*1043.2*	1040.6	1031.0	1009.2	973.5	930.9	869.9	801.1	718.4
40°	1119.0	1120.7	*1119.8*	1119.8	1106.8	1082.4	1045.8	997.9	935.2	861.2	771.5
42.5°	1189.5	1191.2	*1186.9*	1187.7	1177.3	1152.0	1112.9	1062.4	992.7	915.2	817.7
45°	1257.4	1257.4	*1257.4*	1256.5	1241.7	1218.2	1178.2	1120.7	1051.0	963.1	860.3
47.5°	1320.1	1318.4	*1317.5*	1317.5	1307.9	1280.0	1237.4	1174.7	1098.9	1006.6	902.1
50°	1375.8	1376.7	*1375.8*	1374.1	1359.3	1336.6	1288.8	1223.4	1143.3	1048.4	937.0
52.5°	1423.7	1424.6	*1425.5*	1421.1	1411.5	1384.5	1331.4	1261.8	1180.8	1081.5	965.7
55°	1462.0	1463.8	*1465.5*	1463.8	1454.2	1422.0	1368.9	1298.3	1211.3	1109.4	990.9
57.5°	1497.7	1496.9	*1497.7*	1496.0	1485.6	1454.2	1399.3	1323.6	1235.6	1132.0	1010.1
60°	1522.1	1523.0	*1523.0*	1523.0	1510.8	1478.6	1420.2	1342.7	1253.1	1149.4	1026.7
62.5°	1538.7	1539.5	*1542.2*	1540.4	1529.1	1495.1	1435.0	1356.7	1266.1	1160.8	1038.0
65°	1550.0	1550.9	*1552.6*	1550.9	1540.4	1505.6	1444.6	1365.4	1274.8	1169.5	1045.8
67.5°	*1555.2*	*1555.2*	*1557.8*	*1557.0*	*1544.8*	*1509.1*	*1448.1*	*1368.9*	*1278.3*	*1173.8*	*1051.0*
70°	1552.6	1553.5	*1555.2*	1554.3	1542.2	1506.5	1445.5	1367.1	1277.4	1173.8	1051.9
72.5°	1546.5	1546.5	*1548.2*	1546.5	1535.2	1499.5	1439.4	1361.9	1273.1	1172.1	1051.0
75°	1534.3	1535.2	*1536.1*	1535.2	1523.0	1488.2	1429.0	1352.3	1266.1	1166.0	1047.6
77.5°	1519.5	1520.4	*1520.4*	1520.4	1507.3	1472.5	1415.0	1340.1	1256.5	1159.0	1041.5
80°	1497.7	1498.6	*1500.4*	1498.6	1485.6	1454.2	1396.7	1325.3	1244.3	1147.7	1033.6
82.5°	1473.4	1472.5	*1475.1*	1474.2	1461.2	1429.8	1373.2	1305.3	1226.1	1134.6	1022.3
85°	1442.9	1442.9	*1444.6*	1442.9	1431.6	1398.5	1345.4	1280.9	1205.2	1115.5	1008.4
87.5°	1408.9	1408.9	*1410.7*	1407.2	1394.1	1365.4	1314.9	1252.2	1182.5	1096.3	992.7
90°	1368.9	1370.6	*1370.6*	1368.0	1354.9	1327.1	1280.9	1220.8	1152.9	1072.8	974.4
92.5°	1330.6	1330.6	*1328.8*	1328.8	1314.9	1287.0	1244.3	1189.5	1125.9	1049.3	954.4
95°	1289.6	1289.6	*1287.0*	1285.3	1271.3	1247.8	1206.9	1156.4	1095.4	1024.9	934.3
97.5°	1246.1	1245.2	*1243.5*	1241.7	1227.8	1205.2	1168.6	1119.8	1064.1	997.0	912.6
100°	1201.7	1202.5	*1196.5*	1195.6	1181.7	1162.5	1127.7	1082.4	1031.0	968.3	889.1
102.5°	1152.9	1154.7	*1149.4*	1148.6	1134.6	1113.7	1085.9	1044.9	998.8	941.3	865.6
105°	1109.4	1105.0	*1102.4*	1100.7	1088.5	1069.3	1039.7	1007.5	964.0	910.0	839.4
107.5°	1059.7	1060.6	*1055.4*	1051.9	1039.7	1024.0	997.9	968.3	930.0	878.6	814.2
110°	1010.1	1008.4	*1005.8*	1004.0	990.1	976.1	953.5	929.1	891.7	847.3	787.2

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

Scaled Data Report

REPORT NUMBER: P1045906
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	958.7	959.6	*955.2*	952.6	943.1	928.3	911.7	888.2	856.0	814.2	757.6
115°	910.8	909.1	*905.6*	903.9	893.4	882.1	865.6	848.1	819.4	779.3	728.0
117.5°	862.1	858.6	*857.7*	855.1	847.3	836.0	822.9	808.1	780.2	745.4	696.6
120°	811.6	811.6	*809.8*	808.1	797.6	788.1	780.2	764.5	741.0	707.9	666.1
122.5°	764.5	763.7	*760.2*	757.6	752.4	743.6	734.1	721.9	701.0	671.4	631.3
125°	713.2	714.9	*712.3*	711.4	702.7	698.4	689.7	681.8	660.1	633.1	597.4
127.5°	670.5	667.9	*667.9*	663.5	659.2	654.8	647.9	637.4	622.6	594.7	561.7
130°	625.2	623.5	*620.9*	620.9	615.6	609.5	605.2	596.5	579.9	557.3	526.0
132.5°	579.9	578.2	*576.5*	573.8	570.4	569.5	565.1	555.6	539.9	519.9	492.9
135°	537.3	536.4	*535.5*	535.5	530.3	527.7	522.5	514.6	504.2	485.9	459.8
137.5°	497.2	494.6	*492.9*	492.9	491.1	486.8	482.4	476.3	465.0	450.2	426.7
140°	455.4	457.2	*457.2*	456.3	452.8	450.2	445.0	439.7	428.4	416.2	396.2
142.5°	420.6	419.7	*418.0*	417.1	415.4	411.9	409.3	403.2	396.2	383.1	365.7
145°	383.1	383.1	*382.3*	383.1	379.7	378.8	375.3	370.1	362.2	350.9	336.1
147.5°	350.1	350.1	*349.2*	350.1	347.4	344.8	342.2	338.7	331.8	323.1	310.0
150°	319.6	320.4	*318.7*	318.7	317.8	315.2	313.5	308.3	303.0	296.1	284.7
152.5°	291.7	292.6	*291.7*	290.8	290.0	288.2	285.6	282.1	276.9	270.8	261.2
155°	268.2	267.3	*267.3*	267.3	266.5	263.8	263.8	258.6	253.4	249.0	239.5
157.5°	245.6	245.6	*245.6*	245.6	243.8	242.9	241.2	236.9	234.2	228.1	221.2
160°	227.3	226.4	*226.4*	226.4	224.7	223.8	221.2	219.4	216.0	210.7	205.5
162.5°	209.0	209.9	*209.9*	209.9	208.1	207.2	205.5	203.8	201.2	195.9	192.4
165°	195.1	195.1	*195.1*	194.2	193.3	193.3	190.7	189.8	187.2	183.7	181.1
167.5°	183.7	183.7	*182.9*	183.7	182.0	180.3	179.4	177.6	175.9	174.2	171.5
170°	174.2	174.2	*174.2*	174.2	173.3	172.4	170.7	169.8	168.1	166.3	163.7
172.5°	166.3	166.3	*166.3*	166.3	165.4	164.6	162.8	162.0	161.1	159.4	157.6
175°	160.2	160.2	*160.2*	160.2	159.4	158.5	156.7	156.7	155.9	155.0	153.3
177.5°	155.9	155.9	*155.0*	155.0	154.1	153.3	153.3	152.4	152.4	151.5	150.6
180°	150.6	150.6	*150.6*	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6

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

Scaled Data Report

REPORT NUMBER: P1045906
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
2.5°	95.8	92.3	86.2	81.0	74.9	70.5	66.2	65.3	65.3	67.1	67.1
5°	110.6	102.8	90.6	79.2	66.2	56.6	47.9	40.1	34.8	32.2	32.2
7.5°	138.5	132.4	114.1	98.4	82.7	67.9	54.0	41.8	33.1	27.0	26.1
10°	174.2	164.6	142.8	122.8	101.9	83.6	67.1	52.2	41.8	36.6	36.6
12.5°	212.5	199.4	173.3	148.9	124.5	101.0	81.9	67.1	56.6	51.4	49.6
15°	253.4	238.6	207.2	175.9	146.3	121.0	99.3	81.0	70.5	65.3	64.4
17.5°	291.7	275.2	239.5	202.0	168.1	137.6	111.5	92.3	79.2	73.1	72.3
20°	333.5	311.7	269.9	226.4	186.3	149.8	120.2	97.5	81.9	74.9	74.0
22.5°	376.2	350.9	301.3	250.8	202.9	161.1	126.3	100.1	82.7	74.9	74.0
25°	421.5	393.6	335.3	276.9	221.2	172.4	132.4	102.8	84.5	74.9	74.0
27.5°	469.4	438.0	371.0	304.8	239.5	183.7	138.5	106.2	85.3	75.8	74.0
30°	520.7	485.0	407.5	331.8	256.9	194.2	143.7	108.0	86.2	75.8	74.9
32.5°	572.1	528.6	447.6	357.9	275.2	203.8	148.9	110.6	87.1	76.6	75.8
35°	621.7	579.1	484.2	384.9	292.6	213.3	153.3	112.3	88.8	77.5	75.8
37.5°	672.2	626.1	519.0	410.1	308.3	221.2	156.7	114.1	89.7	78.4	76.6
40°	720.1	666.1	552.9	434.5	321.3	228.1	159.4	114.9	90.6	79.2	77.5
42.5°	765.4	707.9	585.2	455.4	334.4	233.4	162.0	116.7	91.4	80.1	79.2
45°	803.7	744.5	613.0	476.3	344.0	237.7	163.7	117.6	92.3	81.0	80.1
47.5°	841.2	777.6	639.2	492.9	353.5	242.1	164.6	118.4	93.2	82.7	81.9
50°	874.3	807.2	662.7	507.7	360.5	243.8	165.4	119.3	94.9	84.5	83.6
52.5°	902.1	832.5	681.0	519.9	365.7	245.6	165.4	119.3	95.8	86.2	85.3
55°	924.8	854.2	697.5	528.6	369.2	246.4	165.4	120.2	97.5	87.9	87.1
57.5°	943.9	870.8	710.6	536.4	372.7	246.4	165.4	121.0	99.3	89.7	88.8
60°	957.9	884.7	720.1	541.6	373.6	245.6	165.4	121.9	101.0	92.3	91.4
62.5°	969.2	894.3	728.0	545.1	373.6	243.8	165.4	122.8	102.8	94.9	94.0
65°	977.0	901.3	733.2	546.9	372.7	242.9	165.4	124.5	105.4	97.5	96.7
67.5°	*981.4*	*906.5*	*736.7*	*548.6*	*371.8*	*242.9*	*166.3*	*127.1*	*108.0*	*101.0*	*100.1*
70°	983.1	907.4	737.6	547.7	371.0	241.2	167.2	128.9	111.5	104.5	103.6
72.5°	983.1	908.2	737.6	547.7	369.2	242.1	168.1	131.5	114.9	108.0	107.1
75°	980.5	905.6	736.7	546.0	368.3	241.2	170.7	135.0	118.4	112.3	111.5
77.5°	975.3	902.1	734.1	543.4	367.5	242.1	172.4	138.5	122.8	116.7	116.7
80°	969.2	896.9	730.6	540.8	366.6	243.8	175.0	142.8	127.1	121.9	121.0
82.5°	959.6	889.1	724.5	537.3	364.9	244.7	178.5	147.2	132.4	126.3	126.3
85°	946.5	877.7	716.7	532.9	363.1	246.4	182.0	150.6	137.6	131.5	131.5
87.5°	932.6	865.6	707.1	527.7	362.2	248.2	186.3	155.9	141.9	136.7	135.8
90°	916.1	850.8	697.5	521.6	361.4	250.8	189.8	161.1	148.0	142.8	141.9
92.5°	898.6	836.0	687.0	517.2	360.5	253.4	195.1	167.2	154.1	148.9	148.0
95°	881.2	820.3	676.6	511.1	360.5	256.9	200.3	173.3	160.2	155.0	154.1
97.5°	861.2	802.9	664.4	505.9	360.5	261.2	206.4	179.4	166.3	161.1	161.1
100°	840.3	785.4	652.2	500.7	361.4	265.6	212.5	186.3	173.3	168.1	168.1
102.5°	819.4	766.3	640.9	496.3	363.1	271.7	220.3	194.2	181.1	175.9	175.0
105°	796.8	747.1	627.8	490.3	364.9	276.9	227.3	201.2	188.1	182.9	182.9
107.5°	774.1	727.1	614.8	485.9	366.6	282.1	235.1	209.0	195.9	189.8	189.8
110°	748.9	705.3	600.8	480.7	368.3	288.2	241.2	216.0	202.0	196.8	195.9

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

Scaled Data Report

REPORT NUMBER: P1045906
CATALOG NUMBER: FFX-CLB-70-750-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	722.7	683.6	586.0	473.7	369.2	293.5	248.2	222.9	209.0	202.9	202.0
115°	694.9	659.2	569.5	466.7	369.2	297.8	253.4	228.1	214.2	208.1	207.2
117.5°	667.0	633.1	551.2	457.2	368.3	300.4	257.8	231.6	217.7	211.6	210.7
120°	637.4	606.9	532.9	447.6	364.9	301.3	259.5	234.2	219.4	213.3	212.5
122.5°	606.9	579.1	511.1	434.5	359.6	300.4	259.5	234.2	219.4	212.5	211.6
125°	573.8	549.5	488.5	418.8	351.8	296.9	257.8	232.5	217.7	210.7	209.0
127.5°	541.6	519.9	465.0	403.2	342.2	291.7	254.3	229.0	214.2	207.2	206.4
130°	510.3	488.5	440.6	385.8	330.9	284.7	248.2	223.8	209.9	202.0	201.2
132.5°	477.2	457.2	416.2	367.5	317.8	276.0	242.1	218.6	203.8	197.7	195.9
135°	444.1	428.4	391.0	348.3	304.8	266.5	235.1	212.5	198.5	191.6	191.6
137.5°	414.5	398.8	365.7	329.2	290.8	255.1	226.4	205.5	192.4	186.3	185.5
140°	384.0	371.8	342.2	310.0	276.0	244.7	219.4	199.4	187.2	181.1	180.3
142.5°	355.3	343.1	319.6	290.0	261.2	233.4	210.7	192.4	181.1	175.9	175.0
145°	326.5	317.8	295.2	271.7	246.4	222.0	201.2	185.5	175.9	170.7	170.7
147.5°	301.3	293.5	273.4	253.4	231.6	211.6	193.3	179.4	170.7	166.3	165.4
150°	276.9	269.9	253.4	236.9	216.8	200.3	184.6	173.3	165.4	162.0	161.1
152.5°	254.3	249.0	235.1	221.2	204.6	189.8	177.6	168.1	161.1	157.6	157.6
155°	235.1	230.8	218.6	206.4	193.3	181.1	170.7	162.8	157.6	155.0	154.1
157.5°	218.6	213.3	203.8	194.2	183.7	173.3	165.4	158.5	155.0	152.4	152.4
160°	202.9	198.5	190.7	183.7	175.0	167.2	160.2	155.9	152.4	150.6	150.6
162.5°	189.8	186.3	180.3	174.2	168.1	162.0	156.7	153.3	150.6	148.9	148.9
165°	178.5	176.8	171.5	167.2	162.0	157.6	154.1	151.5	149.8	148.9	148.9
167.5°	169.8	168.1	164.6	161.1	157.6	154.1	151.5	149.8	148.9	148.0	148.0
170°	162.8	161.1	159.4	156.7	154.1	151.5	149.8	148.9	148.0	148.0	148.0
172.5°	157.6	155.9	155.0	153.3	151.5	149.8	148.9	148.0	148.0	148.0	148.0
175°	153.3	152.4	151.5	150.6	149.8	148.9	148.0	148.0	148.0	148.0	148.0
177.5°	150.6	149.8	149.8	148.9	148.9	148.0	148.0	148.9	148.9	148.9	149.8
180°	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6

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

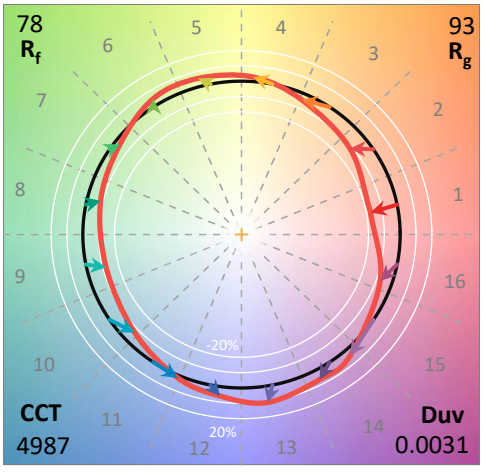
Test Information

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

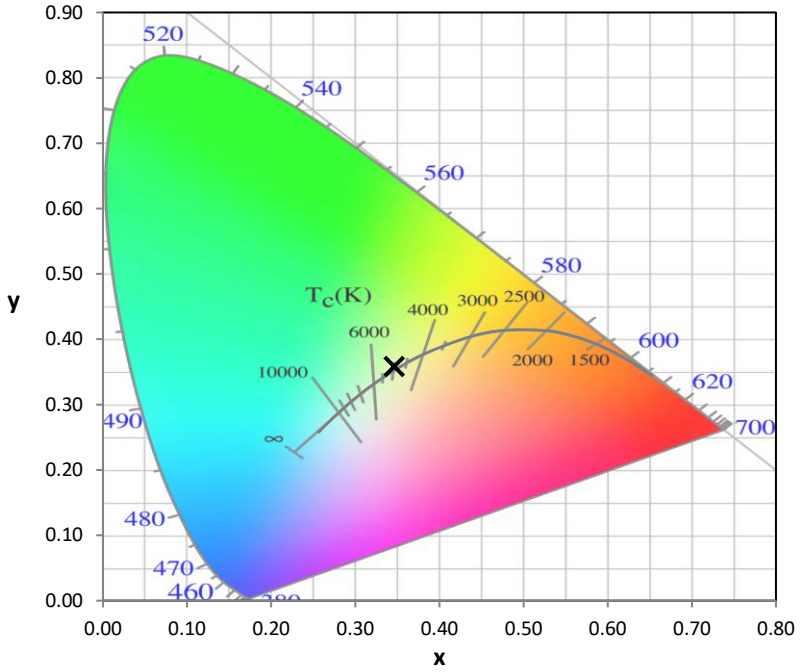
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

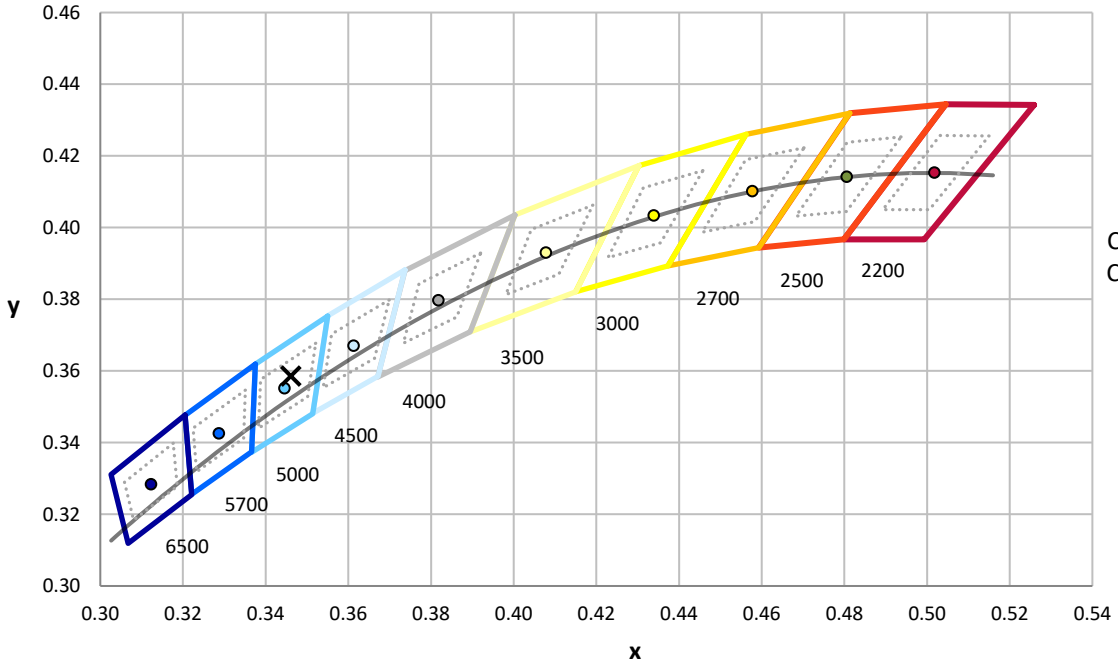
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

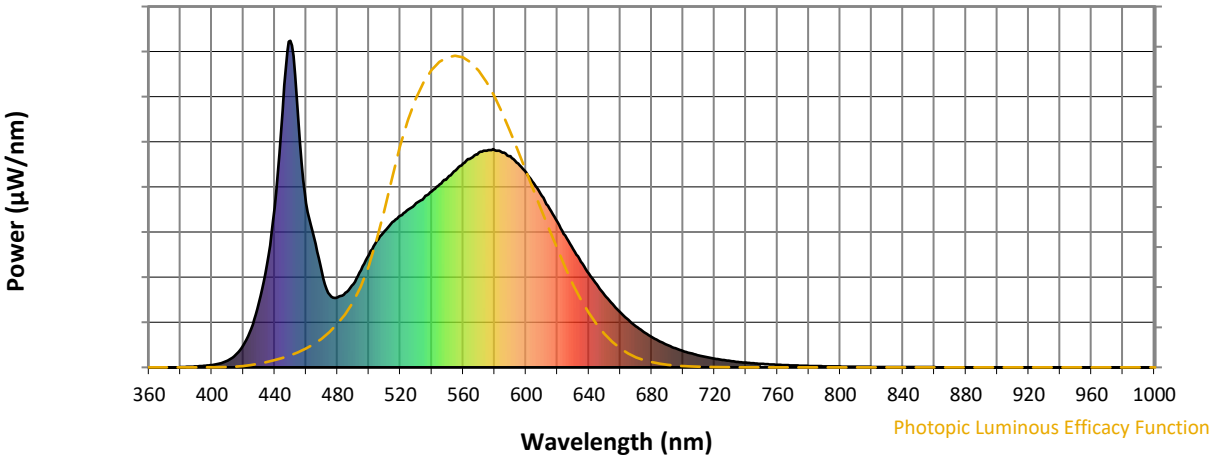


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

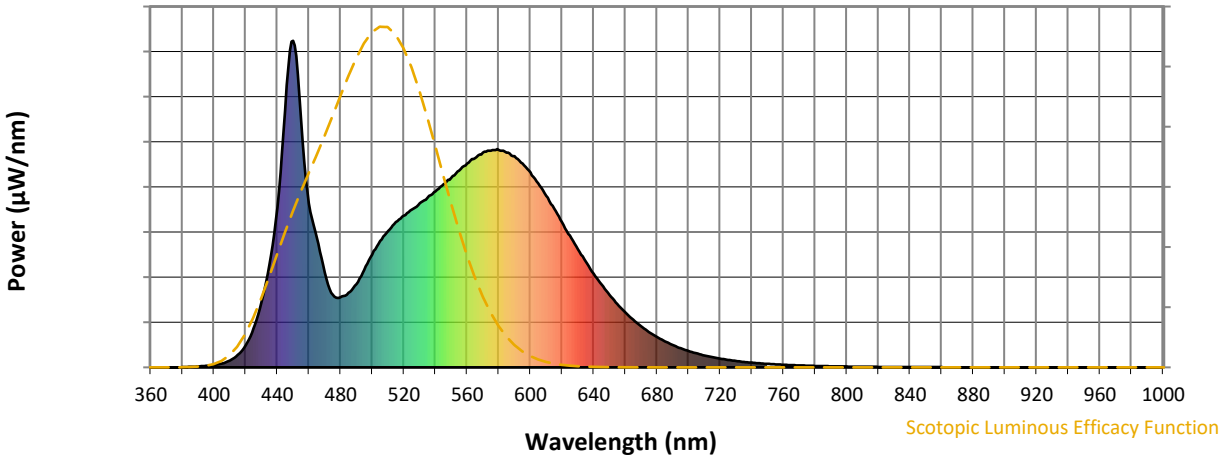


Photopic Lumens: NR

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

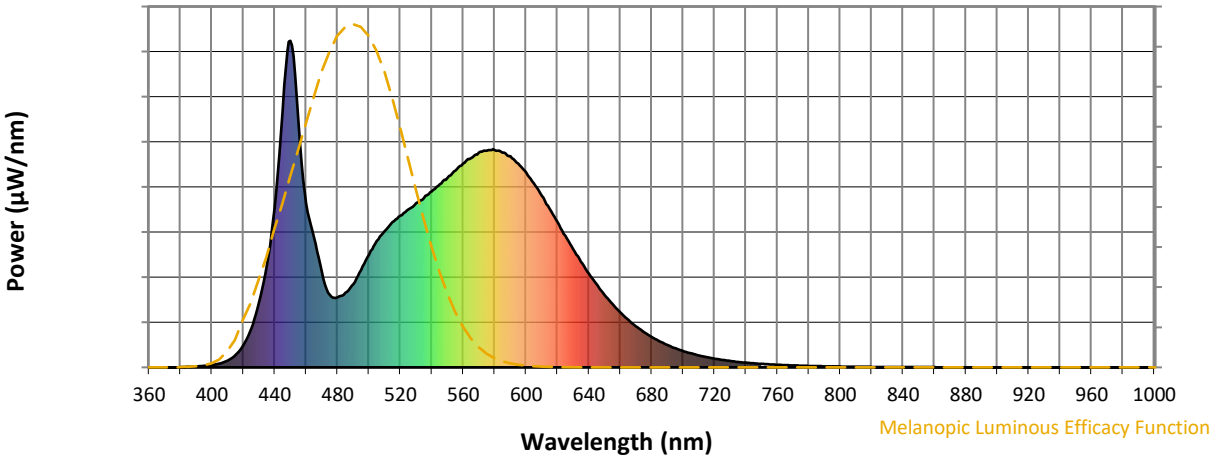


Scotopic Lumens: NR **S/P: 1.87**

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			

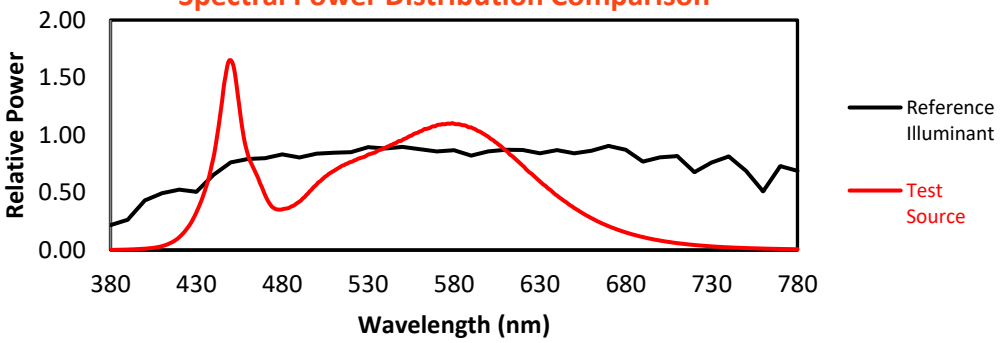
REPORT NUMBER: SP1-2501-332-5

TM-30-18

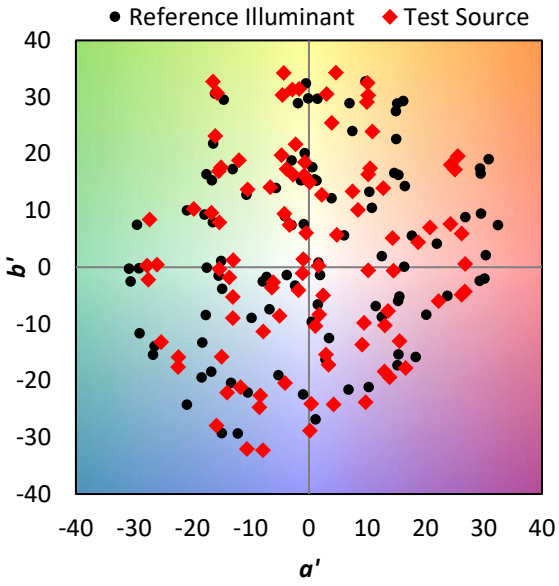
Summary

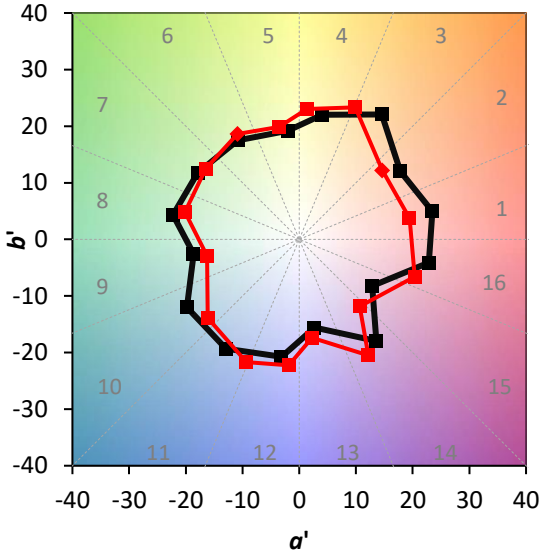
R_f = 78.3
R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

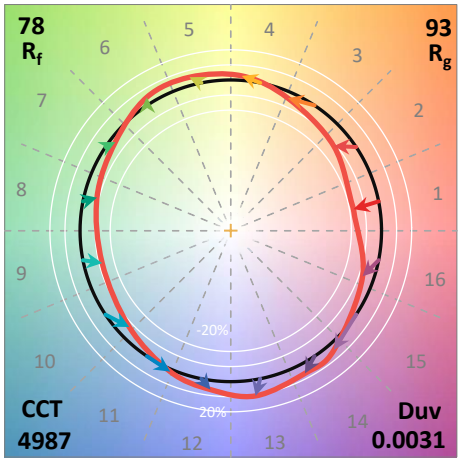
Spectral Power Distribution Comparison

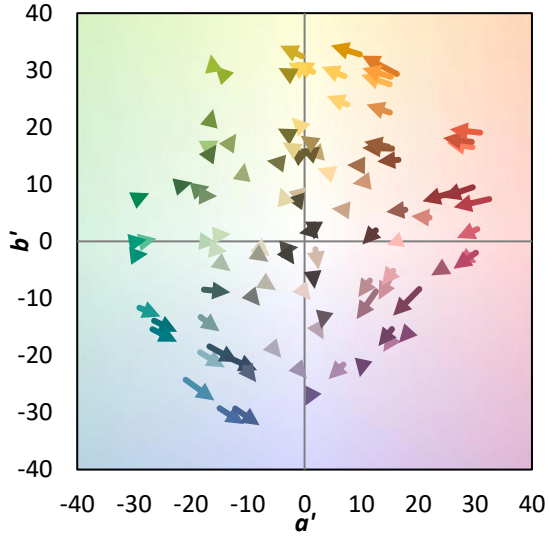


Color Vector Graphics







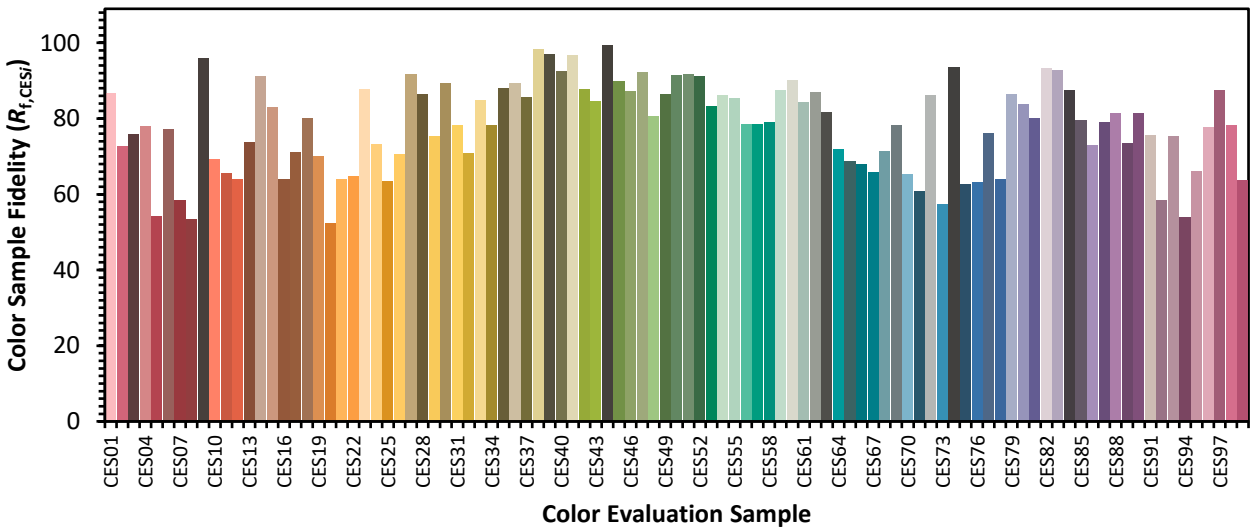


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

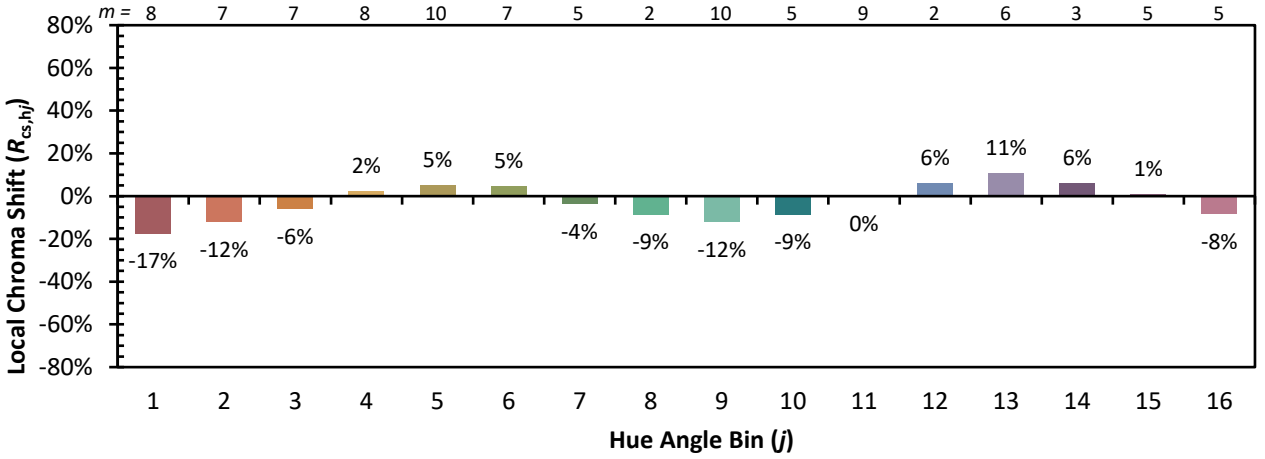
CES01 = 85	CES26 = 71	CES51 = 92	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82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

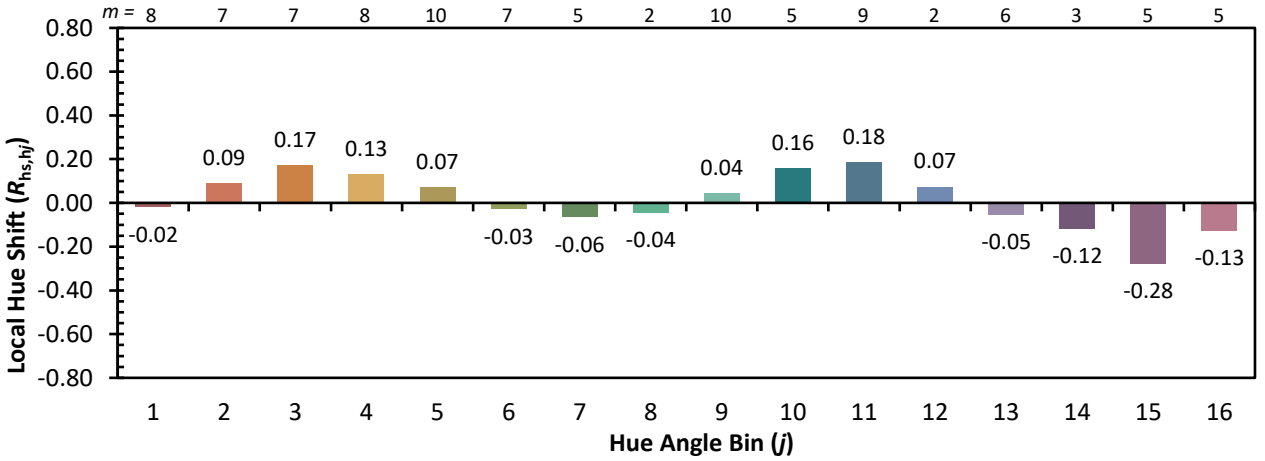


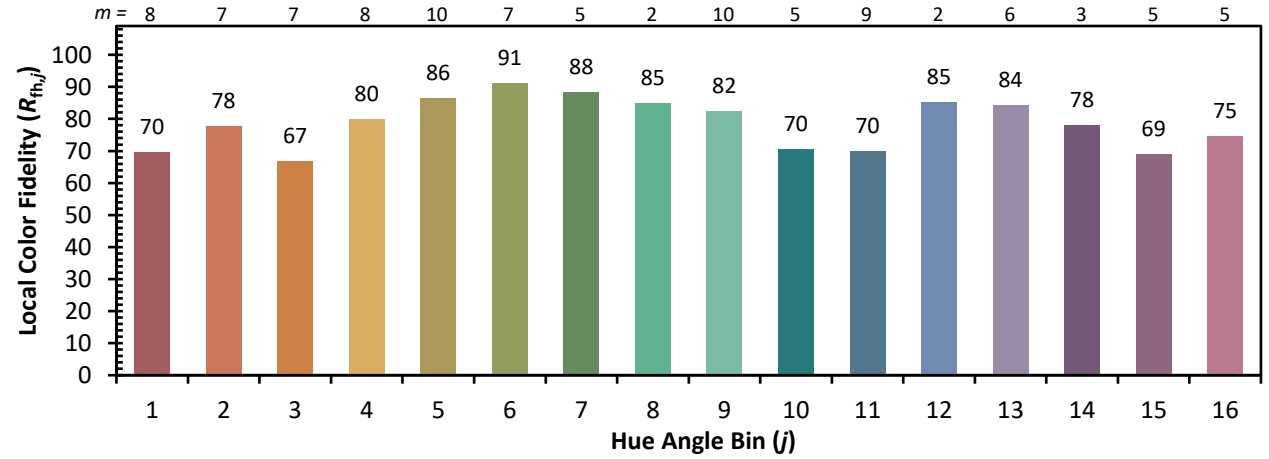
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



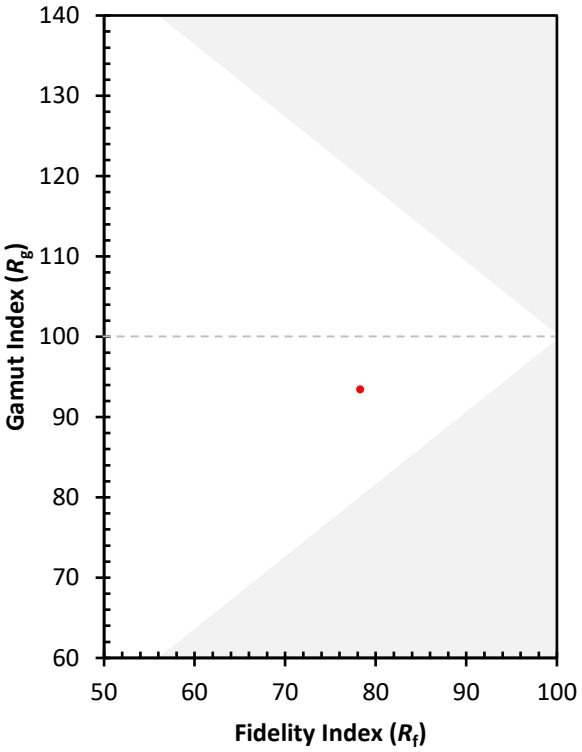


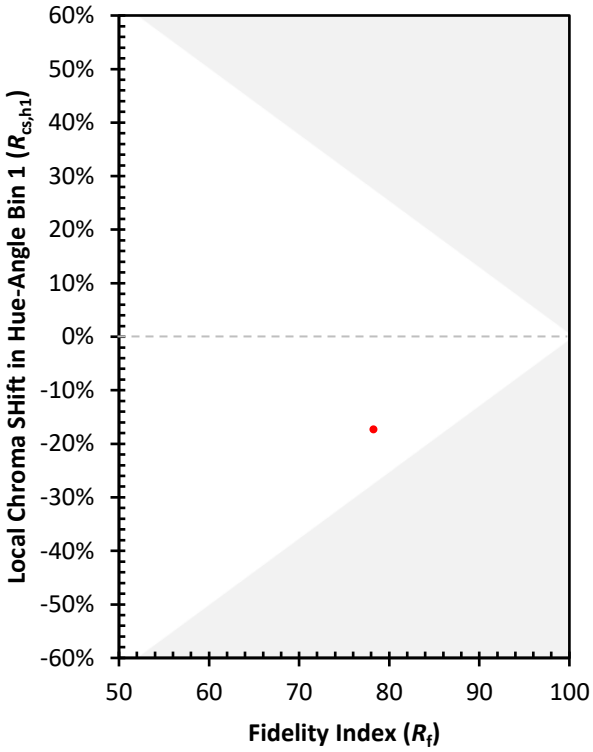


REPORT NUMBER: SP1-2501-332-5

TM-30-18

Measure Comparisons





(END OF REPORT)