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: P1045924

Luminaire Tested: **FFX-CLB-70-727-U-FG-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:	P1045924
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-727-U-FG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7453.8 lumens
Efficiency:	N/A
Efficacy:	104.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
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

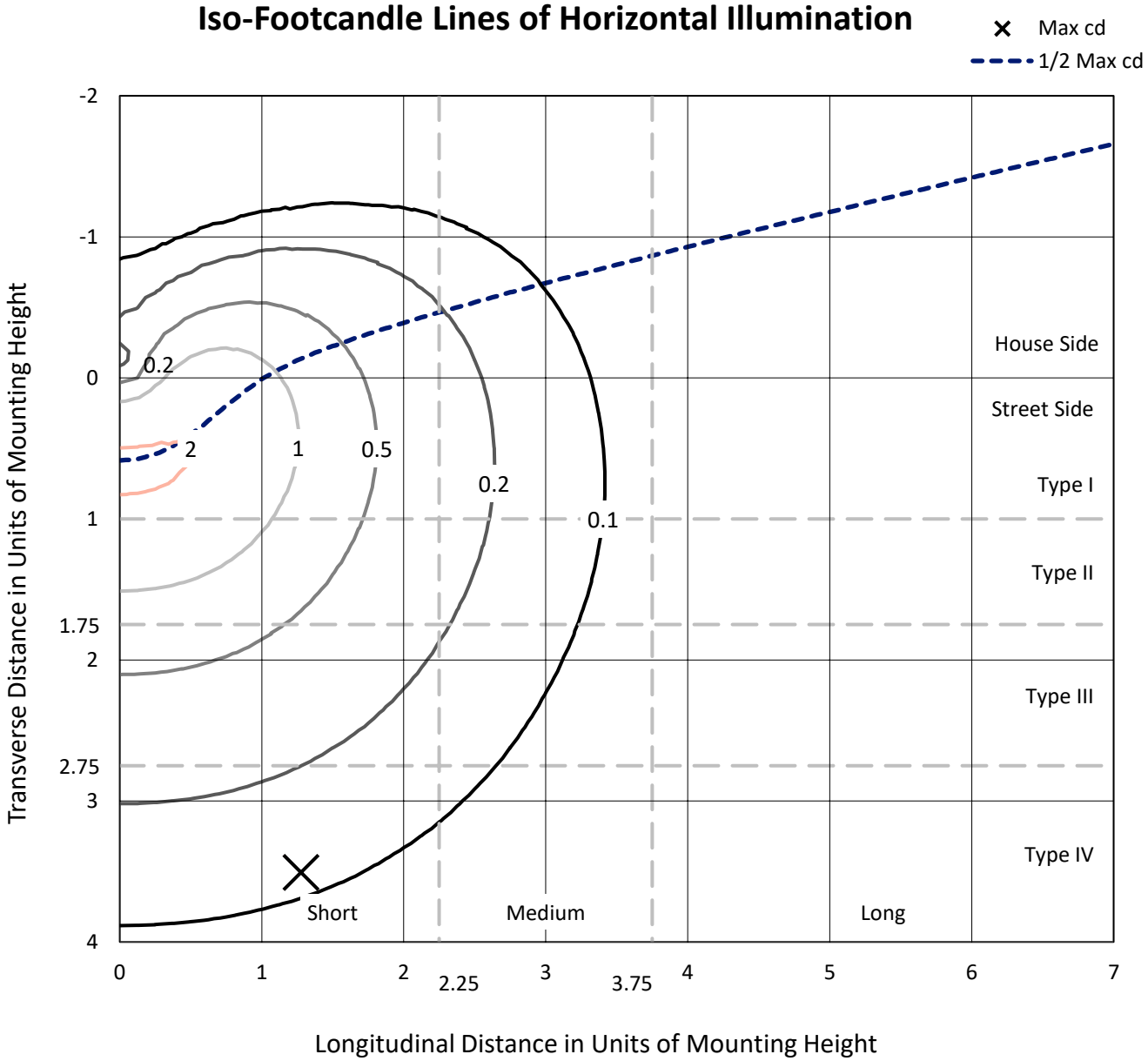


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045924
CATALOG NUMBER: FFX-CLB-70-727-U-FG-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



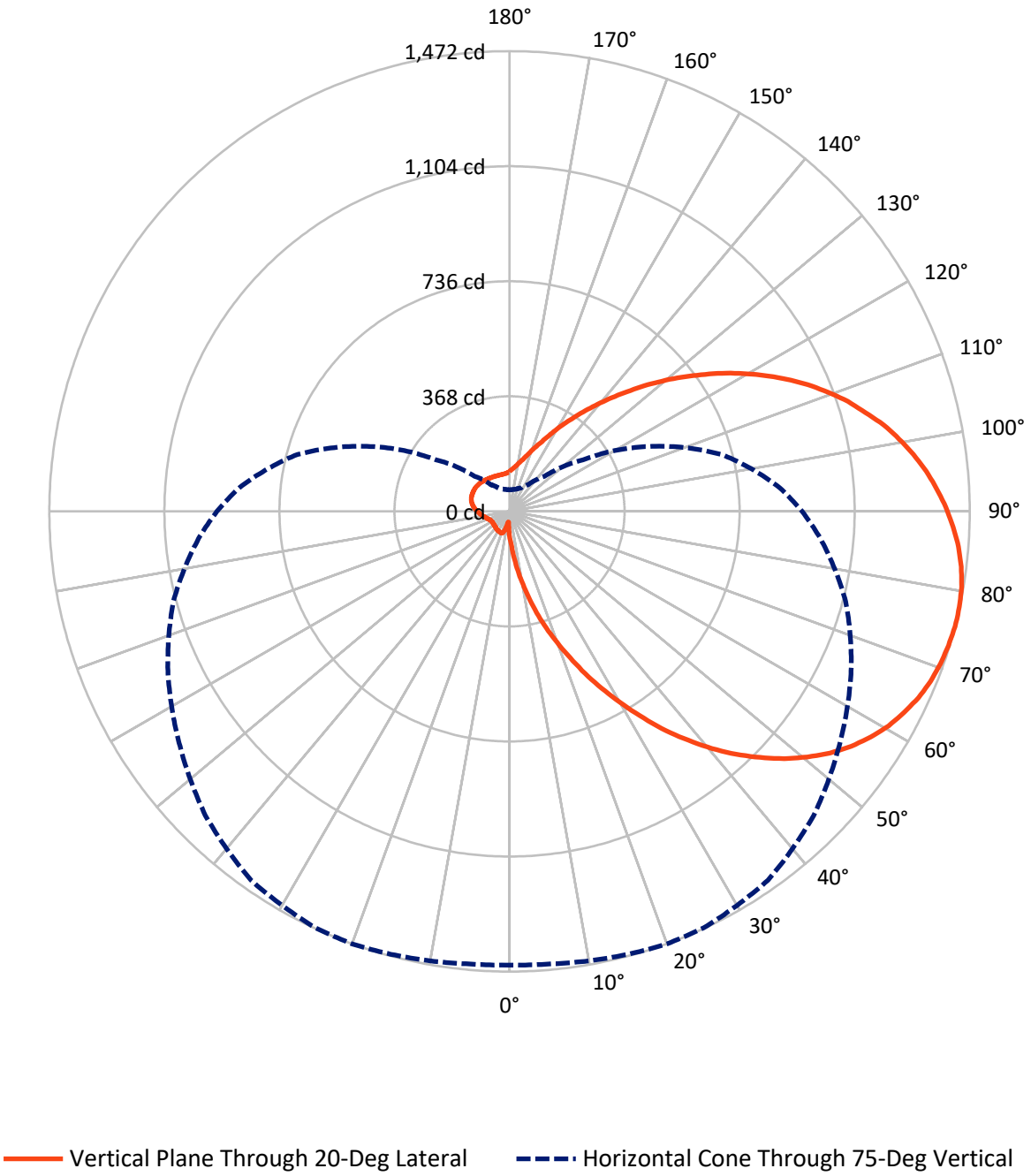
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045924
CATALOG NUMBER: FFX-CLB-70-727-U-FG-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

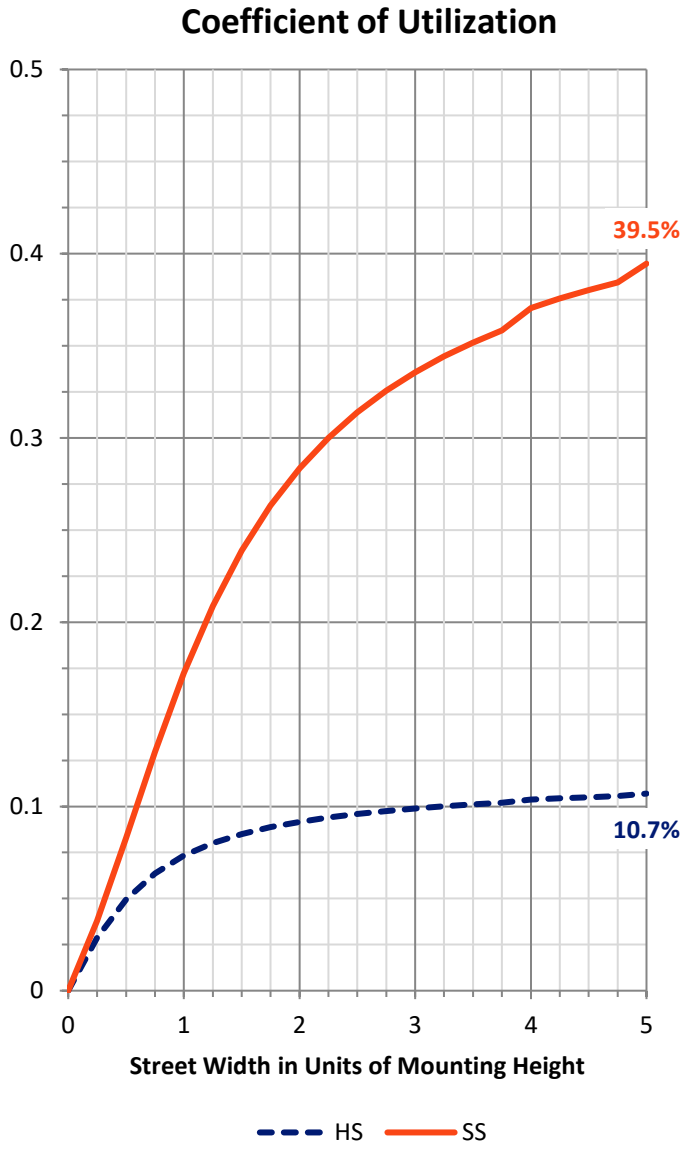
REPORT NUMBER: P1045924
CATALOG NUMBER: FFX-CLB-70-727-U-FG-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	861.8	819.8	1681.6
	% Fixture	11.6	11.0	22.6
Street Side	Lumens	3383.9	2388.4	5772.2
	% Fixture	45.4	32.0	77.4
Total	Lumens	4245.6	3208.2	7453.8
	% Fixture	57.0	43.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	0.1
10°-20°	62.2	0.8
20°-30°	164.7	2.2
30°-40°	318.1	4.3
40°-50°	498.3	6.7
50°-60°	666.3	8.9
60°-70°	789.5	10.6
70°-80°	860.2	11.5
80°-90°	875.7	11.7
90°-100°	830.4	11.1
100°-110°	734.3	9.9
110°-120°	596.3	8.0
120°-130°	438.9	5.9
130°-140°	291.0	3.9
140°-150°	171.5	2.3
150°-160°	90.7	1.2
160°-170°	42.7	0.6
170°-180°	12.5	0.2
0°-90°	4245.6	57.0
0°-180°	7453.8	100.0



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

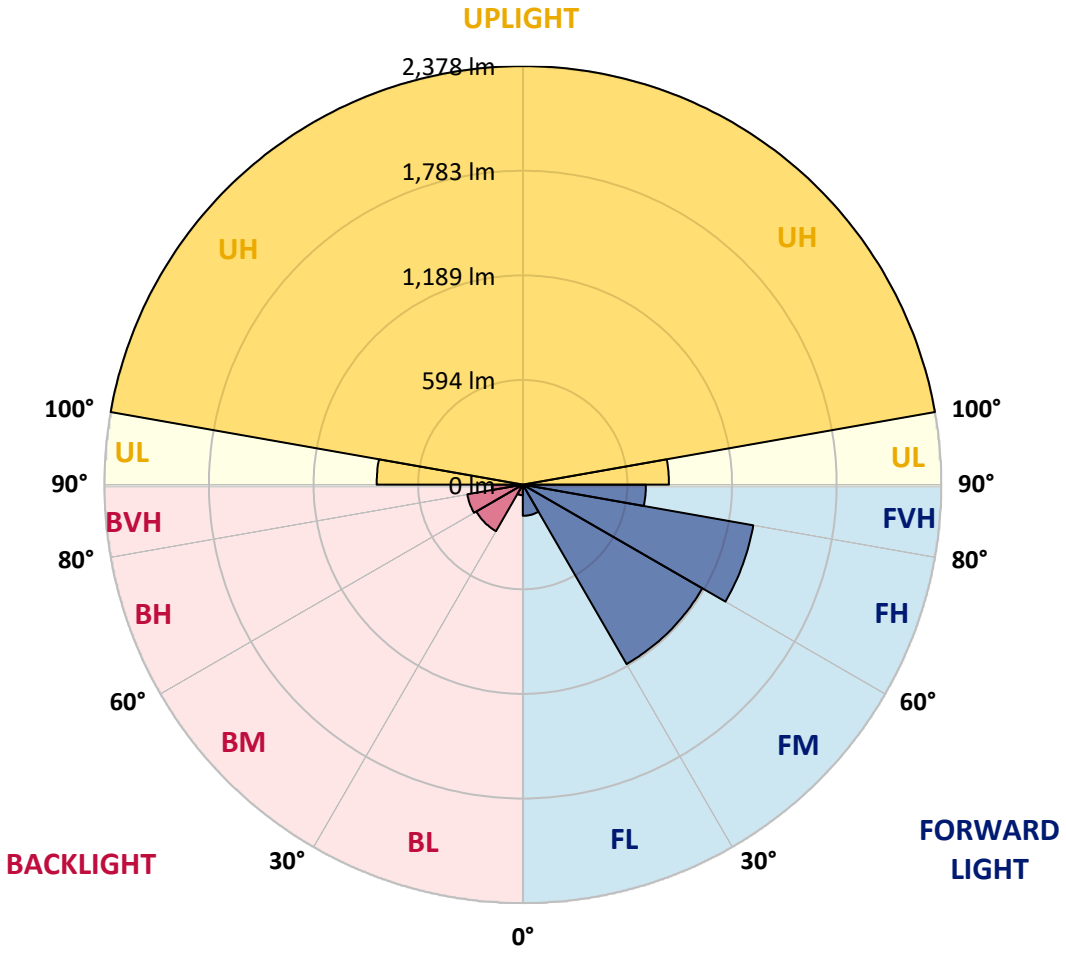
Scaled Data Report

REPORT NUMBER: P1045924
CATALOG NUMBER: FFX-CLB-70-727-U-FG-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	177.4	2.4			
FM	(30°-60°)	1177.7	15.8			
FH	(60°-80°)	1329.7	17.8			G1/1800
FVH	(80°-90°)	699.2	9.4			G4/750
BL	(0°-30°)	60.2	0.8	B0/110		
BM	(30°-60°)	305.0	4.1	B1/1000		
BH	(60°-80°)	320.0	4.3	B1/500		G1/500
BVH	(80°-90°)	176.5	2.4			G2/225
UL	(90°-100°)	830.4	11.1		U4/1000	
UH	(100°-180°)	2377.8	31.9		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: P1045924
CATALOG NUMBER: FFX-CLB-70-727-U-FG-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	85.4	85.4	85.4	*85.4*	85.4	85.4	85.4	85.4	85.4	85.4	85.4
2.5°	104.2	104.2	104.9	*104.9*	105.7	104.2	101.8	100.3	97.9	92.4	87.7
5°	144.9	145.7	144.1	*144.9*	145.7	141.8	136.3	129.2	119.0	109.6	99.5
7.5°	194.2	196.6	192.7	*191.9*	189.5	183.3	175.4	164.5	153.5	141.0	126.1
10°	248.3	247.5	242.8	*237.3*	235.7	227.9	217.7	207.5	191.1	175.4	159.8
12.5°	299.2	298.4	294.5	*290.6*	288.2	278.0	265.5	253.8	236.5	216.2	196.6
15°	352.4	353.2	349.3	*347.0*	342.3	332.1	321.9	304.7	287.4	263.9	240.4
17.5°	405.7	407.3	403.4	*401.8*	397.9	389.3	375.9	357.9	336.0	308.6	278.8
20°	464.4	466.0	463.7	*458.2*	453.5	444.1	432.3	409.6	385.3	357.1	318.8
22.5°	527.1	527.9	520.8	*519.3*	514.6	506.0	488.7	468.4	440.9	404.9	365.0
25°	589.0	589.0	587.4	*585.8*	578.8	568.6	551.4	526.3	495.8	457.4	410.4
27.5°	655.5	656.3	652.4	*650.8*	645.4	632.0	614.0	586.6	555.3	509.1	455.8
30°	726.0	725.2	721.3	*718.2*	715.8	702.5	682.2	654.0	614.8	561.6	507.5
32.5°	796.5	794.2	791.8	*788.7*	787.9	770.7	754.2	719.8	679.0	622.6	557.6
35°	868.6	863.1	861.5	*862.3*	858.4	844.3	820.0	786.3	739.3	680.6	607.0
37.5°	931.2	935.9	932.0	*928.9*	929.7	914.0	888.2	850.6	801.2	736.2	657.1
40°	1000.9	997.8	997.8	*997.8*	995.5	981.4	953.9	912.4	856.0	787.1	701.0
42.5°	1061.2	1061.2	1065.2	*1062.8*	1060.5	1044.0	1014.3	968.0	908.5	834.1	743.3
45°	1123.1	1121.6	1126.2	*1123.1*	1121.6	1104.3	1073.0	1025.2	962.6	881.1	785.6
47.5°	1180.3	1181.1	1182.6	*1182.6*	1181.1	1161.5	1128.6	1072.2	1008.8	921.8	821.6
50°	1229.6	1233.5	1238.2	*1235.1*	1236.7	1215.5	1178.7	1121.6	1047.9	960.2	853.7
52.5°	1278.2	1278.2	1284.5	*1284.5*	1282.9	1262.5	1221.0	1160.7	1087.9	994.7	883.5
55°	1319.7	1320.5	1326.0	*1326.8*	1326.0	1302.5	1258.6	1193.6	1117.6	1023.6	907.7
57.5°	1351.0	1353.4	1360.4	*1362.8*	1359.6	1338.5	1289.2	1223.4	1142.7	1046.4	928.9
60°	1379.2	1382.4	1390.2	*1393.3*	1391.0	1368.3	1316.6	1246.1	1163.1	1065.9	946.9
62.5°	1404.3	1405.1	1415.3	*1416.8*	1416.0	1391.8	1336.9	1263.3	1179.5	1080.8	962.6
65°	1422.3	1424.7	1435.6	*1438.0*	1436.4	1410.6	1353.4	1277.4	1192.8	1093.4	974.3
67.5°	1436.4	1438.0	1448.9	*1452.8*	1451.3	1423.9	1365.1	1286.0	1200.7	1102.0	983.7
70°	1444.2	1446.6	1459.1	*1462.2*	1460.7	1433.3	1372.2	1289.9	1205.4	1108.2	990.0
72.5°	1448.9	1451.3	1464.6	*1468.5*	1467.7	1438.7	1375.3	1291.5	1206.9	1111.4	994.7
75°	*1451.3*	*1453.6*	*1466.9*	*1472.4*	*1470.1*	*1441.1*	*1376.1*	*1290.7*	*1206.1*	*1113.7*	*998.6*
76°	1451.3	1452.8	1466.9	*1472.4*	1470.1	1441.1	1376.1	1289.2	1205.4	1114.5	1000.2
77.5°	1449.7	1452.1	1466.2	*1470.9*	1469.3	1440.3	1373.7	1286.0	1203.0	1112.9	1000.9
80°	1445.8	1448.1	1461.5	*1466.9*	1464.6	1434.8	1368.3	1279.8	1196.7	1109.8	1000.9
82.5°	1437.2	1439.5	1452.1	*1456.0*	1455.2	1425.4	1358.1	1268.8	1187.3	1104.3	999.4
85°	1423.9	1426.2	1436.4	*1441.1*	1438.7	1410.6	1343.2	1253.9	1175.6	1095.7	994.7
87.5°	1405.9	1407.4	1418.4	*1420.0*	1419.2	1391.0	1324.4	1235.1	1159.9	1084.0	986.8
90°	1383.9	1385.5	1394.1	*1396.5*	1394.1	1367.5	1300.1	1214.8	1140.3	1069.9	977.4
92.5°	1361.2	1360.4	1366.7	*1369.0*	1366.7	1340.1	1275.1	1190.5	1120.0	1054.2	965.7
95°	1334.6	1336.1	1337.7	*1339.3*	1336.1	1310.3	1246.9	1163.8	1098.1	1037.0	954.7
97.5°	1304.8	1304.0	1305.6	*1305.6*	1302.5	1276.6	1214.8	1138.0	1073.0	1018.2	939.8
100°	1273.5	1272.7	1271.1	*1268.0*	1264.9	1239.8	1182.6	1105.9	1047.1	995.5	925.0
102.5°	1239.0	1234.3	1229.6	*1228.8*	1221.8	1200.7	1145.8	1075.3	1019.7	974.3	906.2
105°	1196.7	1195.2	1188.1	*1181.9*	1177.9	1154.4	1104.3	1041.7	990.8	948.5	885.8
107.5°	1153.7	1150.5	1140.3	*1138.0*	1130.2	1109.0	1063.6	1008.0	961.8	922.6	861.5

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

Scaled Data Report

REPORT NUMBER: P1045924
CATALOG NUMBER: FFX-CLB-70-727-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
110°	1107.5	1105.9	1094.9	*1087.9*	1081.6	1058.1	1019.0	972.0	929.7	893.6	834.1
112.5°	1055.8	1054.2	1042.4	*1037.0*	1027.6	1009.6	972.7	930.4	894.4	861.5	804.4
115°	1003.3	1002.5	989.2	*982.1*	973.5	951.6	921.8	888.9	856.8	823.9	768.3
117.5°	950.8	946.9	933.6	*925.0*	916.4	896.8	872.5	846.6	816.9	786.3	731.5
120°	891.3	890.5	875.6	*868.6*	860.7	842.7	821.6	797.3	773.8	743.3	694.7
122.5°	834.1	833.3	820.0	*811.4*	801.2	787.1	769.9	751.1	729.9	700.2	652.4
125°	776.2	774.6	760.5	*751.9*	743.3	731.5	715.1	701.8	684.5	656.3	610.9
127.5°	717.4	714.3	705.7	*697.1*	687.7	672.8	667.3	655.5	636.7	609.3	569.4
130°	662.6	661.0	649.3	*641.4*	632.0	620.3	615.6	606.2	592.9	567.8	530.2
132.5°	605.4	603.9	596.8	*589.0*	581.1	569.4	567.0	558.4	545.1	524.7	489.5
135°	554.5	552.9	545.1	*536.5*	532.6	524.0	520.8	513.8	501.3	480.9	450.3
137.5°	505.2	504.4	496.6	*489.5*	484.8	478.5	475.4	469.1	459.7	441.7	413.5
140°	460.5	456.6	450.3	*444.1*	439.4	433.1	431.5	426.1	419.0	401.8	381.4
142.5°	415.9	413.5	408.8	*403.4*	400.2	393.2	389.3	386.9	377.5	364.2	347.7
145°	372.0	372.0	368.1	*364.2*	359.5	354.8	351.7	349.3	341.5	329.7	314.1
147.5°	335.2	335.2	332.1	*330.5*	326.6	320.3	318.0	315.6	308.6	299.2	286.7
150°	303.9	302.3	300.0	*297.6*	294.5	289.0	285.1	282.7	277.3	270.2	258.5
152.5°	272.6	272.6	271.0	*267.9*	265.5	261.6	258.5	255.3	251.4	243.6	234.2
155°	245.9	245.9	243.6	*242.0*	240.4	237.3	234.2	231.0	226.3	220.1	213.0
157.5°	224.0	224.0	222.4	*221.6*	218.5	216.9	213.8	210.7	206.0	200.5	194.2
160°	203.6	204.4	203.6	*202.9*	200.5	198.2	195.0	191.9	188.0	183.3	178.6
162.5°	187.2	188.0	186.4	*185.6*	184.1	181.7	178.6	177.0	173.9	168.4	163.7
165°	173.1	173.1	172.3	*171.5*	170.7	167.6	166.0	164.5	161.3	157.4	153.5
167.5°	162.1	162.1	161.3	*161.3*	159.8	158.2	155.9	154.3	151.2	148.8	144.1
170°	152.7	152.7	151.9	*151.2*	150.4	148.8	147.2	144.9	143.3	140.2	137.8
172.5°	144.9	144.9	144.1	*143.3*	143.3	141.0	140.2	138.6	137.1	134.7	132.4
175°	138.6	137.8	137.8	*137.1*	136.3	134.7	133.9	133.1	131.6	130.8	129.2
177.5°	133.1	133.1	132.4	*132.4*	131.6	130.0	130.0	129.2	128.4	127.7	126.9
180°	126.1	126.1	126.1	*126.1*	126.1	126.1	126.1	126.1	126.1	126.1	126.1

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

Scaled Data Report

REPORT NUMBER: P1045924
CATALOG NUMBER: FFX-CLB-70-727-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
2.5°	85.4	83.0	76.8	71.3	67.4	61.9	57.2	55.6	54.8	54.0	54.0
5°	94.0	89.3	78.3	68.1	58.7	50.9	43.9	36.8	31.3	28.2	26.6
7.5°	118.3	112.8	97.9	84.6	71.3	59.5	47.8	39.2	31.3	26.6	26.6
10°	150.4	142.5	123.7	104.9	88.5	71.3	57.2	45.4	38.4	34.5	34.5
12.5°	184.1	173.9	151.9	127.7	104.9	85.4	68.1	55.6	47.8	44.6	44.6
15°	224.0	210.7	182.5	151.9	124.5	101.0	81.5	67.4	58.0	54.0	53.3
17.5°	262.4	245.1	211.5	177.0	144.1	115.9	93.2	75.2	65.0	59.5	58.7
20°	303.1	282.0	242.0	199.7	162.1	127.7	100.3	80.7	67.4	61.1	60.3
22.5°	340.7	318.0	270.2	220.9	176.2	136.3	104.2	81.5	66.6	59.5	58.7
25°	383.8	357.9	301.5	243.6	191.1	143.3	107.3	81.5	65.8	58.0	57.2
27.5°	427.6	397.1	333.6	266.3	204.4	151.2	109.6	81.5	64.2	56.4	55.6
30°	473.8	440.2	364.2	289.8	218.5	157.4	112.0	80.7	63.4	54.8	54.0
32.5°	520.8	481.7	397.9	312.5	232.6	163.7	113.6	80.7	61.9	54.0	52.5
35°	568.6	523.2	431.5	336.0	245.1	169.2	114.3	79.9	61.1	52.5	51.7
37.5°	610.9	563.9	462.9	357.1	256.9	173.1	115.1	79.1	60.3	51.7	50.9
40°	654.0	603.1	492.6	375.9	265.5	175.4	114.3	78.3	58.7	50.9	50.1
42.5°	693.1	638.3	520.0	394.0	273.3	177.8	113.6	76.8	58.0	50.1	49.3
45°	730.7	672.8	545.9	409.6	280.4	178.6	112.0	76.0	57.2	50.1	49.3
47.5°	765.2	702.5	571.0	424.5	286.7	178.6	111.2	74.4	57.2	50.1	49.3
50°	794.2	732.3	591.3	437.8	290.6	177.8	109.6	73.6	57.2	50.1	49.3
52.5°	822.4	756.6	611.7	448.0	292.9	176.2	107.3	72.8	57.2	50.9	50.1
55°	845.1	778.5	628.9	459.0	295.3	174.7	105.7	72.1	57.2	50.9	50.9
57.5°	864.7	796.5	642.2	466.0	295.3	171.5	104.2	72.1	58.0	52.5	51.7
60°	883.5	813.0	656.3	472.3	295.3	169.2	102.6	72.1	58.7	53.3	52.5
62.5°	896.0	826.3	667.3	477.8	293.7	166.8	101.0	72.1	59.5	54.8	54.0
65°	908.5	838.8	677.5	482.5	292.9	164.5	101.0	72.8	61.1	57.2	56.4
67.5°	917.9	849.0	684.5	485.6	291.4	162.1	100.3	74.4	63.4	59.5	58.7
70°	925.7	856.8	693.1	487.9	289.8	160.6	101.0	76.8	65.8	61.9	61.9
72.5°	932.0	863.9	697.8	490.3	288.2	159.8	102.6	79.1	69.7	65.8	65.0
75°	*935.9*	*867.8*	*702.5*	*491.1*	*286.7*	*159.0*	*104.2*	*82.2*	*72.8*	*69.7*	*68.9*
76°	936.7	869.4	704.1	491.9	285.9	159.0	104.9	83.0	74.4	71.3	70.5
77.5°	939.1	871.7	705.7	491.9	285.1	159.0	106.5	85.4	76.8	73.6	73.6
80°	940.6	873.3	708.0	492.6	283.5	159.0	108.9	89.3	81.5	78.3	77.5
82.5°	939.8	874.1	708.8	491.1	282.7	159.8	112.0	93.2	86.2	83.0	82.2
85°	936.7	871.7	707.2	488.7	280.4	161.3	115.1	97.9	90.1	86.9	86.9
87.5°	931.2	866.2	703.3	485.6	278.8	162.1	118.3	101.8	94.8	91.6	91.6
90°	923.4	860.0	698.6	482.5	276.5	162.9	122.2	105.7	99.5	97.1	96.3
92.5°	914.0	852.1	692.4	477.8	274.9	164.5	125.3	110.4	104.2	101.0	101.0
95°	904.6	843.5	685.3	472.3	273.3	166.8	128.4	114.3	108.1	105.7	105.7
97.5°	891.3	831.8	675.9	466.0	271.0	167.6	132.4	118.3	112.8	109.6	109.6
100°	874.8	818.4	664.9	459.7	269.4	170.0	135.5	122.2	116.7	114.3	113.6
102.5°	858.4	802.8	653.2	452.7	267.1	170.7	138.6	126.1	119.8	117.5	117.5
105°	839.6	785.6	638.3	443.3	264.7	172.3	141.0	128.4	123.0	120.6	119.8
107.5°	817.7	763.6	623.4	434.7	262.4	173.9	143.3	130.8	125.3	123.0	122.2

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

Scaled Data Report

REPORT NUMBER: P1045924
CATALOG NUMBER: FFX-CLB-70-727-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	792.6	743.3	605.4	425.3	260.8	176.2	145.7	132.4	126.9	123.7	123.7
112.5°	763.6	714.3	585.8	414.3	260.8	179.4	147.2	133.9	127.7	124.5	124.5
115°	729.2	683.7	562.3	404.1	260.0	182.5	150.4	134.7	127.7	125.3	124.5
117.5°	695.5	651.6	538.8	394.0	262.4	188.0	153.5	136.3	127.7	124.5	124.5
120°	657.9	617.9	514.6	383.8	265.5	193.5	157.4	137.1	127.7	123.7	123.7
122.5°	618.7	581.9	491.1	374.4	267.9	199.7	160.6	138.6	126.9	123.0	122.2
125°	581.9	545.1	464.4	365.0	270.2	205.2	164.5	139.4	126.1	121.4	120.6
127.5°	541.2	513.0	440.9	354.8	271.8	209.9	167.6	140.2	125.3	119.8	119.0
130°	506.0	478.5	417.4	343.8	270.2	211.5	168.4	139.4	123.7	118.3	118.3
132.5°	466.8	444.9	391.6	329.7	266.3	211.5	169.2	139.4	123.0	117.5	116.7
135°	432.3	412.0	367.3	314.1	259.2	208.3	167.6	138.6	122.2	116.7	115.9
137.5°	400.2	380.6	341.5	297.6	249.1	202.9	164.5	137.1	121.4	115.9	115.1
140°	365.8	351.7	318.0	279.6	238.1	196.6	160.6	135.5	121.4	115.9	115.1
142.5°	334.4	322.7	292.1	260.0	224.0	187.2	155.9	133.1	120.6	115.9	115.1
145°	306.2	292.9	269.4	240.4	209.9	178.6	151.2	131.6	119.8	115.9	115.1
147.5°	278.8	267.1	247.5	222.4	197.4	170.0	146.5	129.2	119.8	115.9	115.1
150°	251.4	243.6	226.3	206.0	183.3	161.3	141.8	127.7	119.8	116.7	115.9
152.5°	227.9	222.4	207.5	191.1	171.5	152.7	137.1	126.1	119.8	116.7	116.7
155°	208.3	202.9	190.3	175.4	161.3	145.7	133.9	124.5	119.8	117.5	116.7
157.5°	188.8	184.8	174.7	163.7	151.9	140.2	130.8	123.7	119.8	117.5	117.5
160°	173.9	170.0	162.1	153.5	144.1	135.5	127.7	122.2	119.8	118.3	118.3
162.5°	161.3	158.2	151.9	144.9	137.8	130.8	125.3	121.4	119.8	118.3	118.3
165°	151.2	148.8	143.3	137.8	133.1	127.7	123.7	121.4	119.8	119.0	119.0
167.5°	142.5	141.0	137.1	133.1	129.2	125.3	122.2	120.6	119.8	119.8	119.8
170°	136.3	134.7	132.4	129.2	126.1	123.7	121.4	120.6	120.6	119.8	120.6
172.5°	131.6	130.8	128.4	126.1	124.5	122.2	121.4	120.6	121.4	121.4	121.4
175°	128.4	127.7	126.1	124.5	123.7	122.2	122.2	121.4	122.2	123.0	123.0
177.5°	126.1	125.3	124.5	124.5	123.7	123.0	123.0	123.7	124.5	124.5	124.5
180°	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

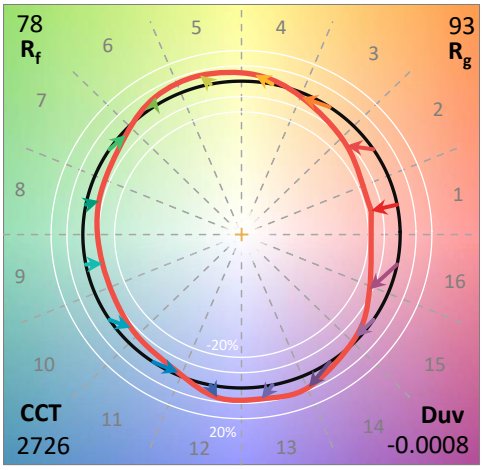
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

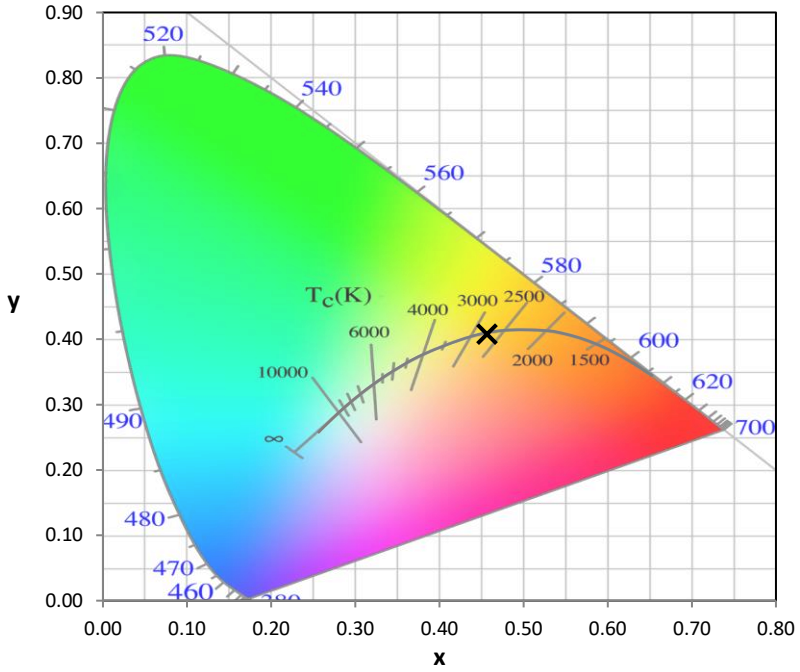
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

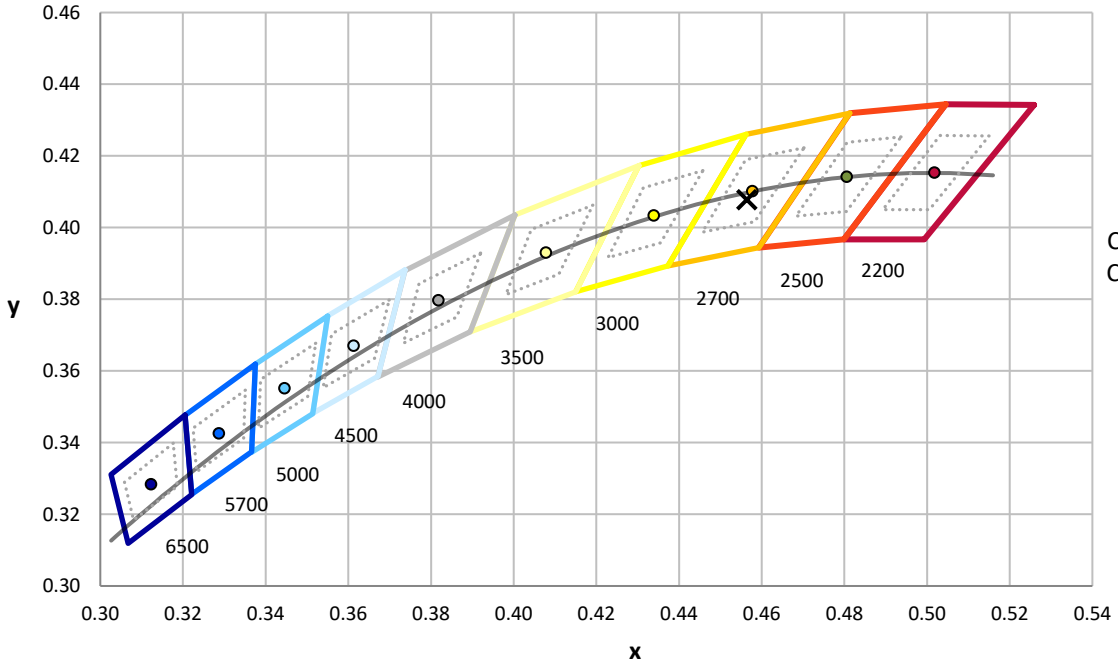
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

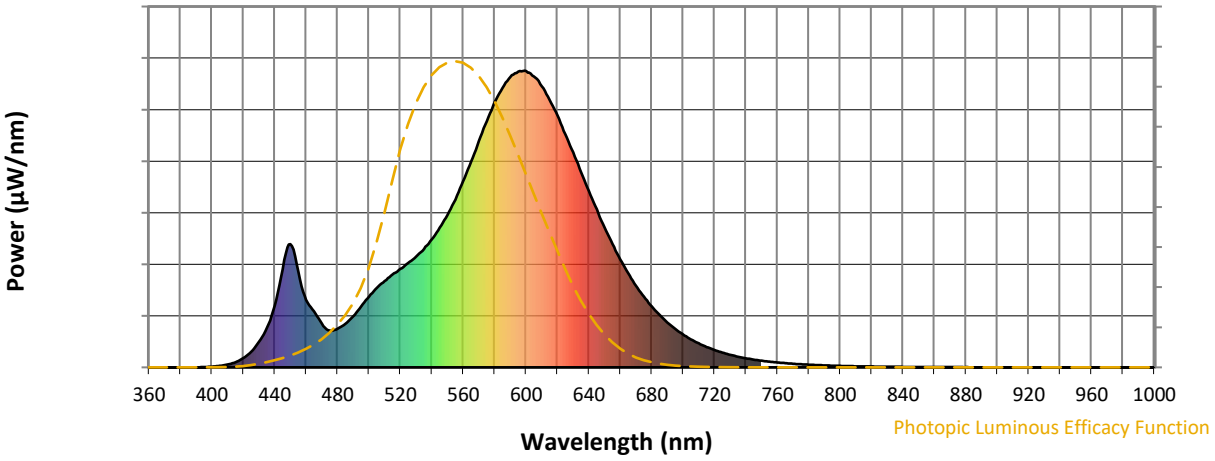


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

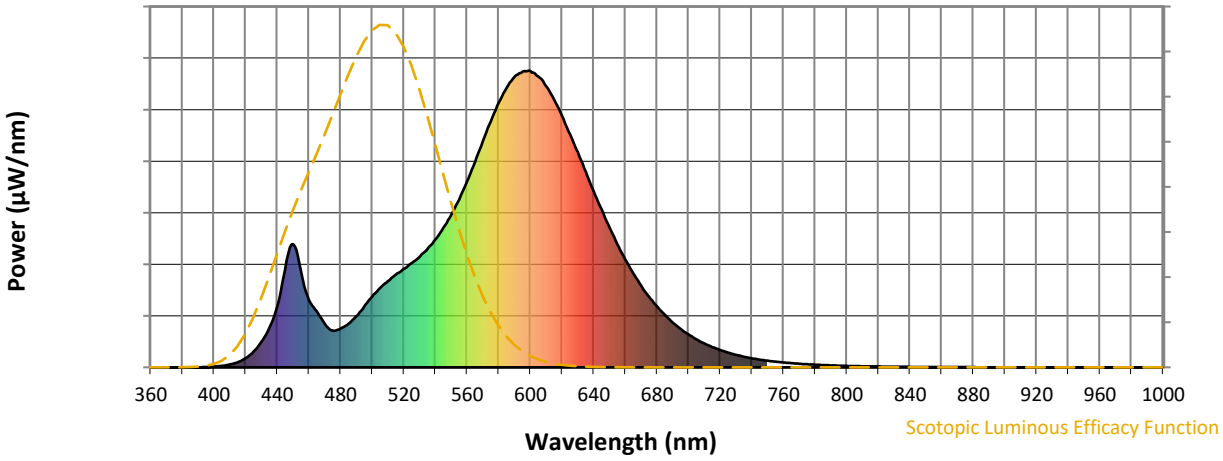


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

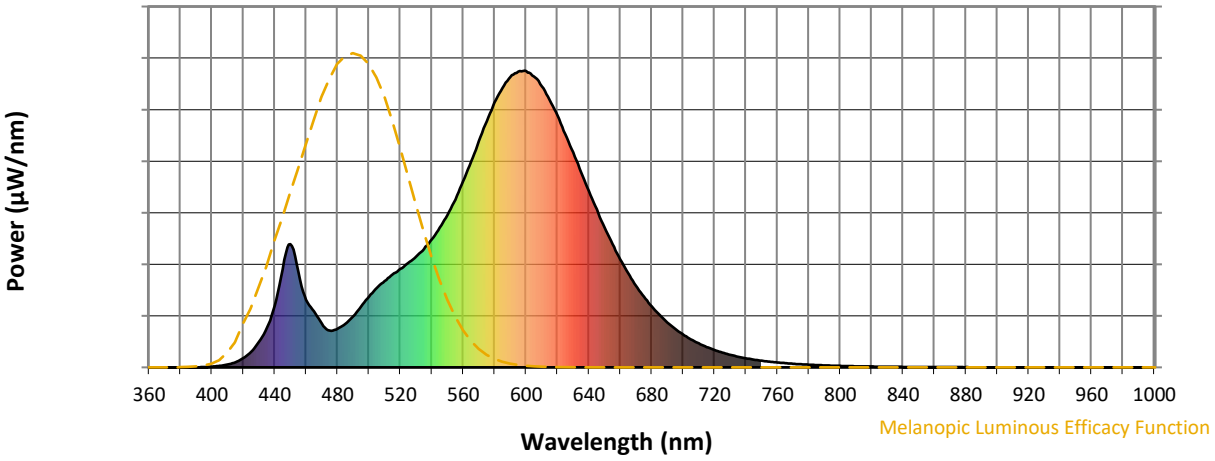


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

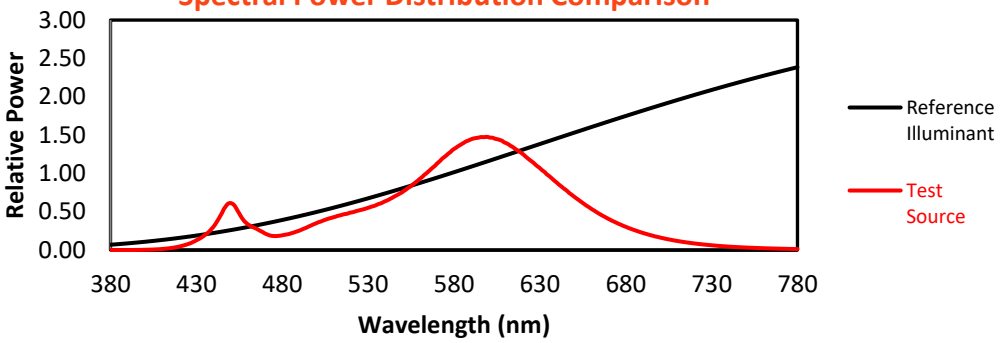
REPORT NUMBER: SP1-2501-332-3

TM-30-18

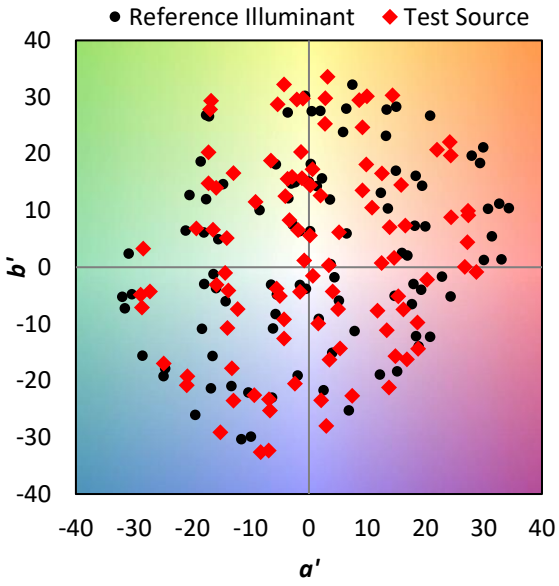
Summary

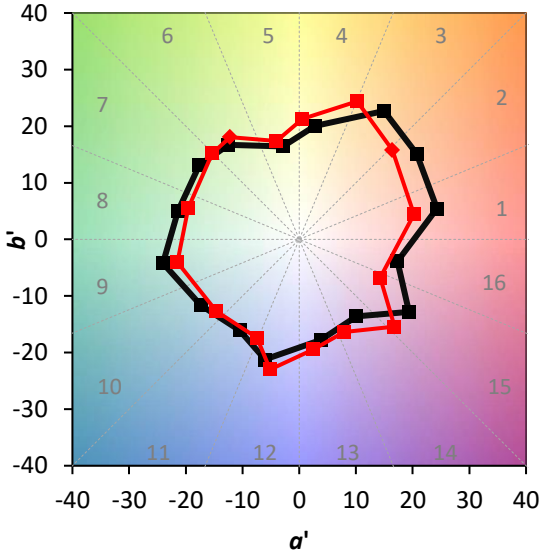
R_f = 77.8
R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

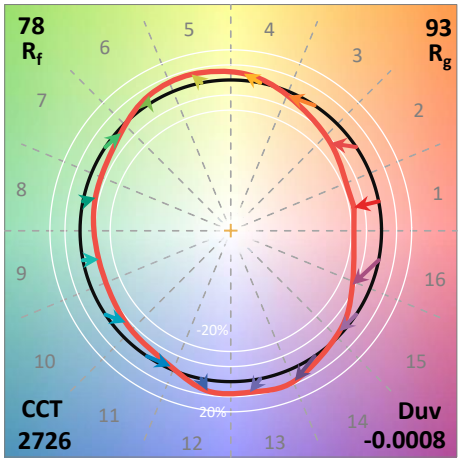
Spectral Power Distribution Comparison

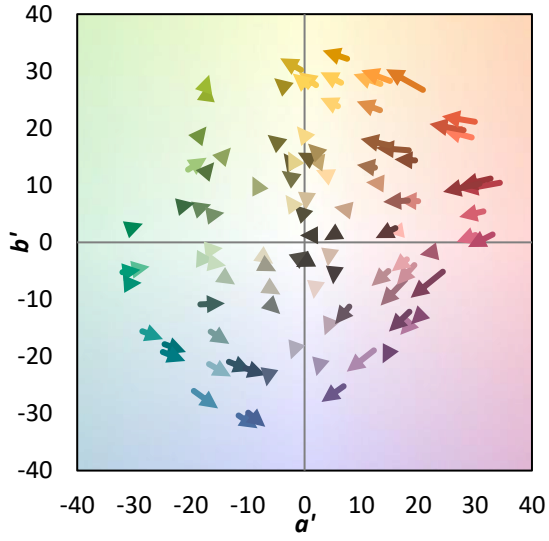


Color Vector Graphics







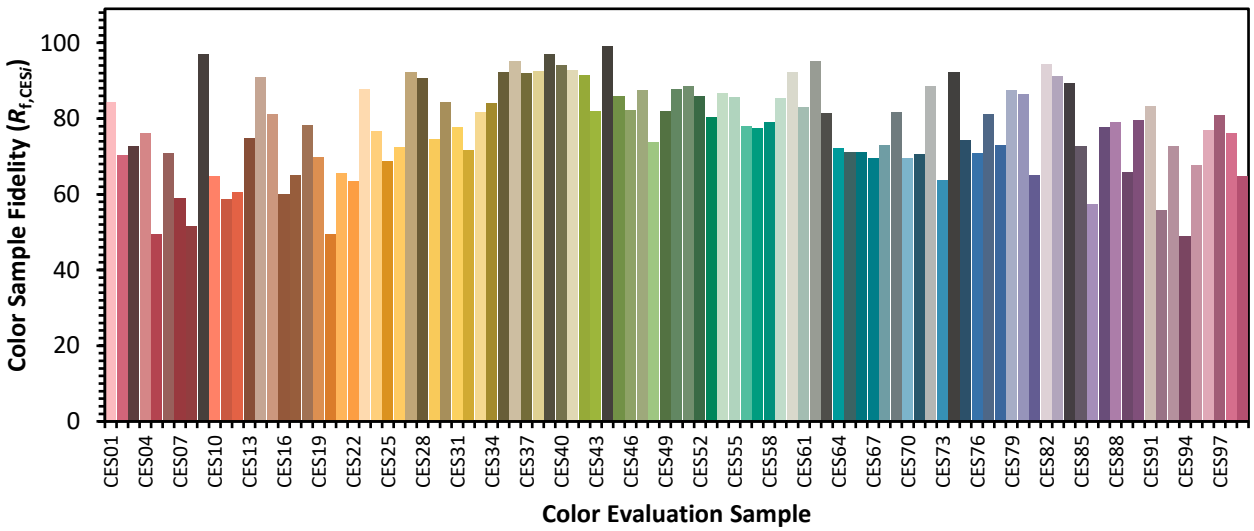


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

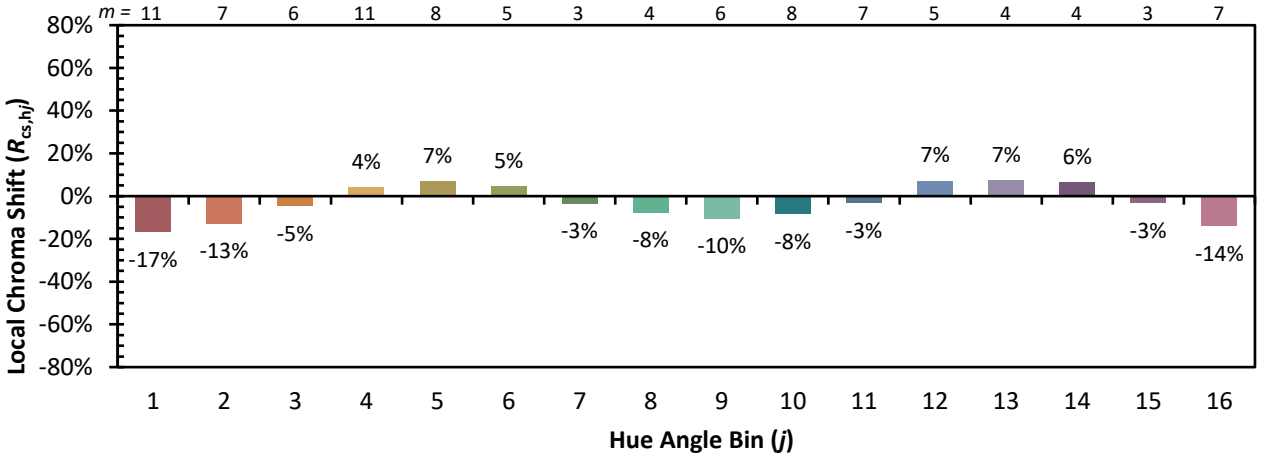
CES01 = 86	CES26 = 72	CES51 = 88	CES76 = 71
CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

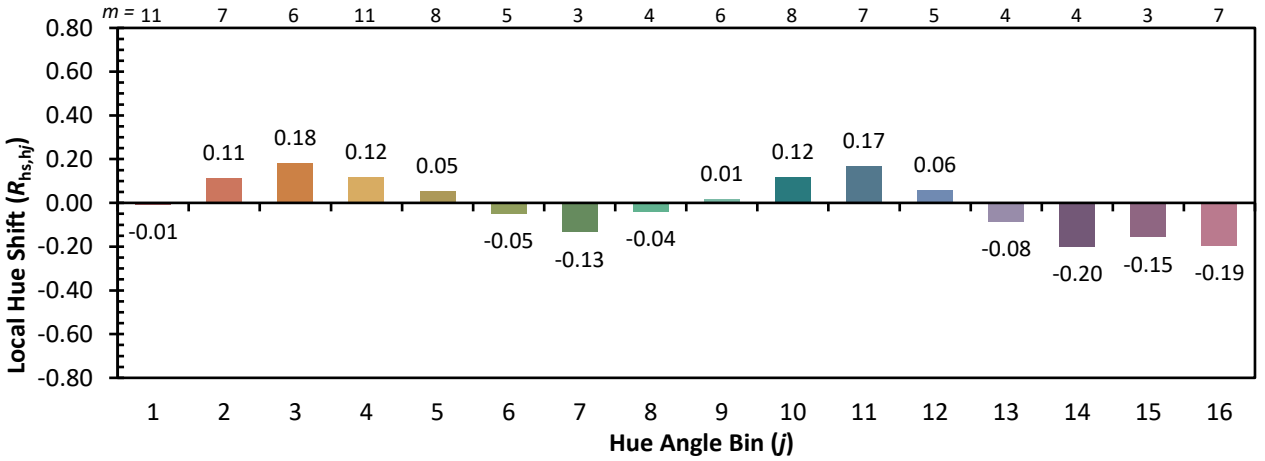


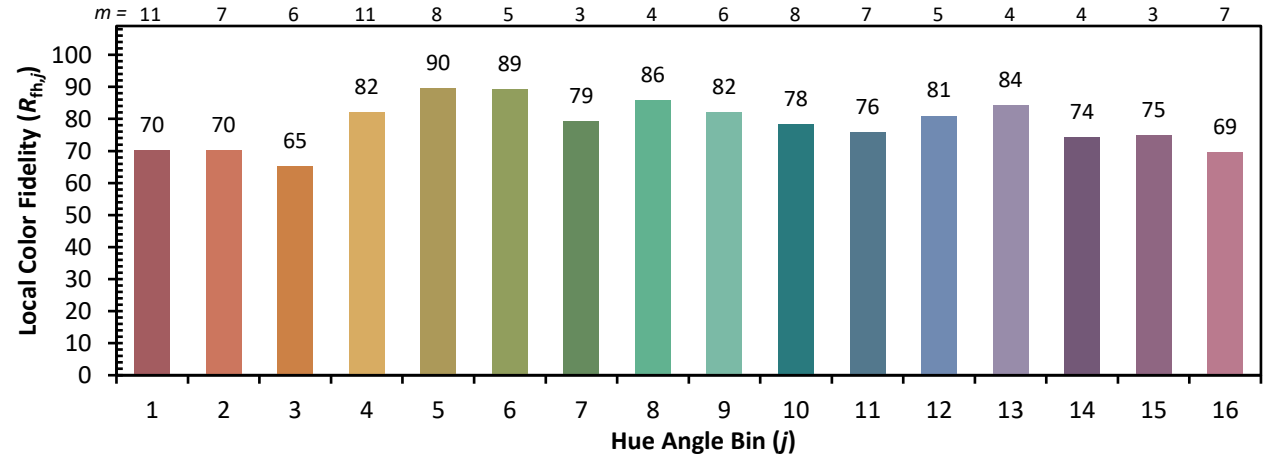
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



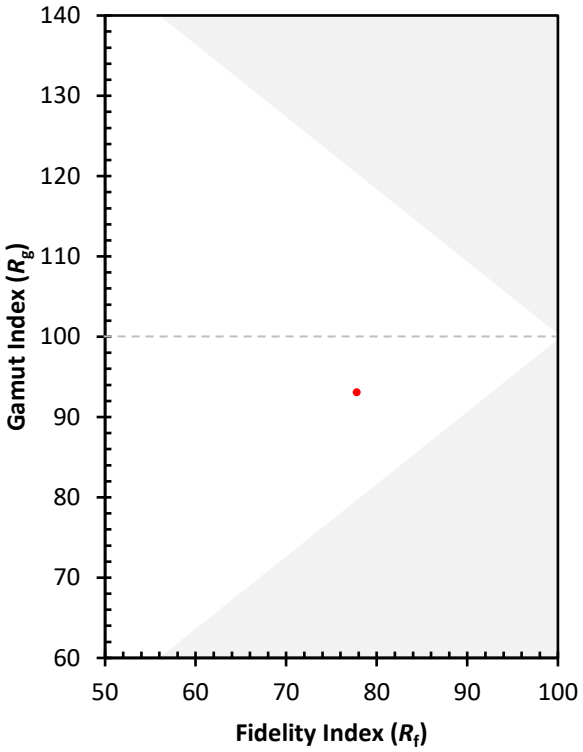


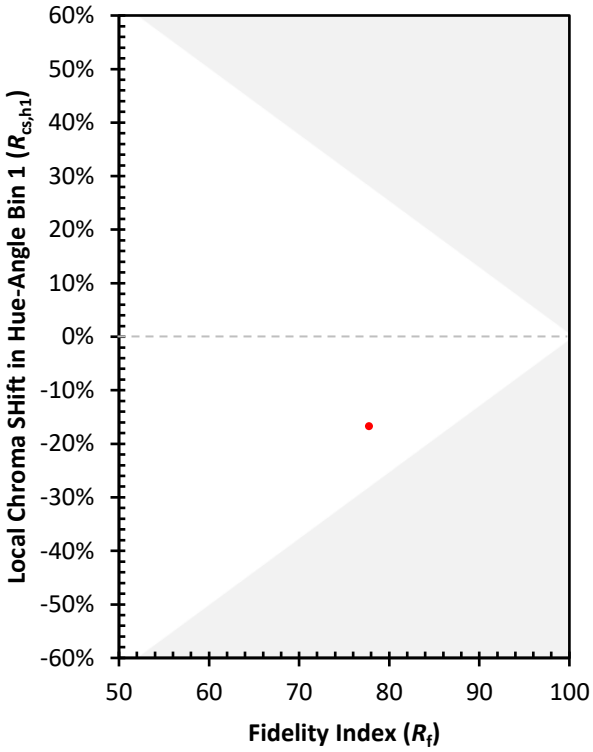


REPORT NUMBER: SP1-2501-332-3

TM-30-18

Measure Comparisons





(END OF REPORT)