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: P1045834

Luminaire Tested: **FFX-CLB-70-727-U-VM8-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:	P1045834
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-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7154.8 lumens
Efficiency:	N/A
Efficacy:	100.5 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

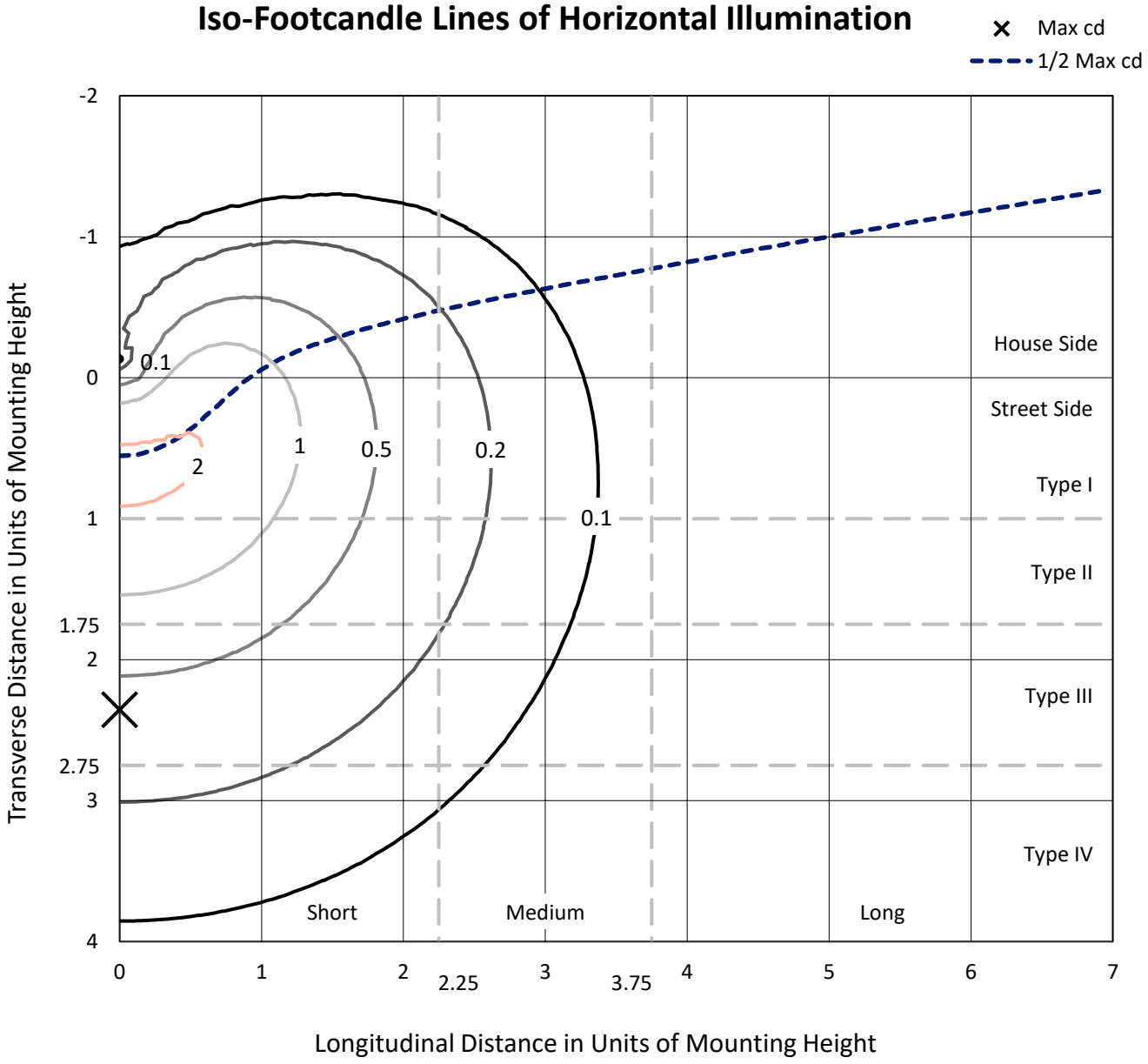


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045834
CATALOG NUMBER: FFX-CLB-70-727-U-VM8-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



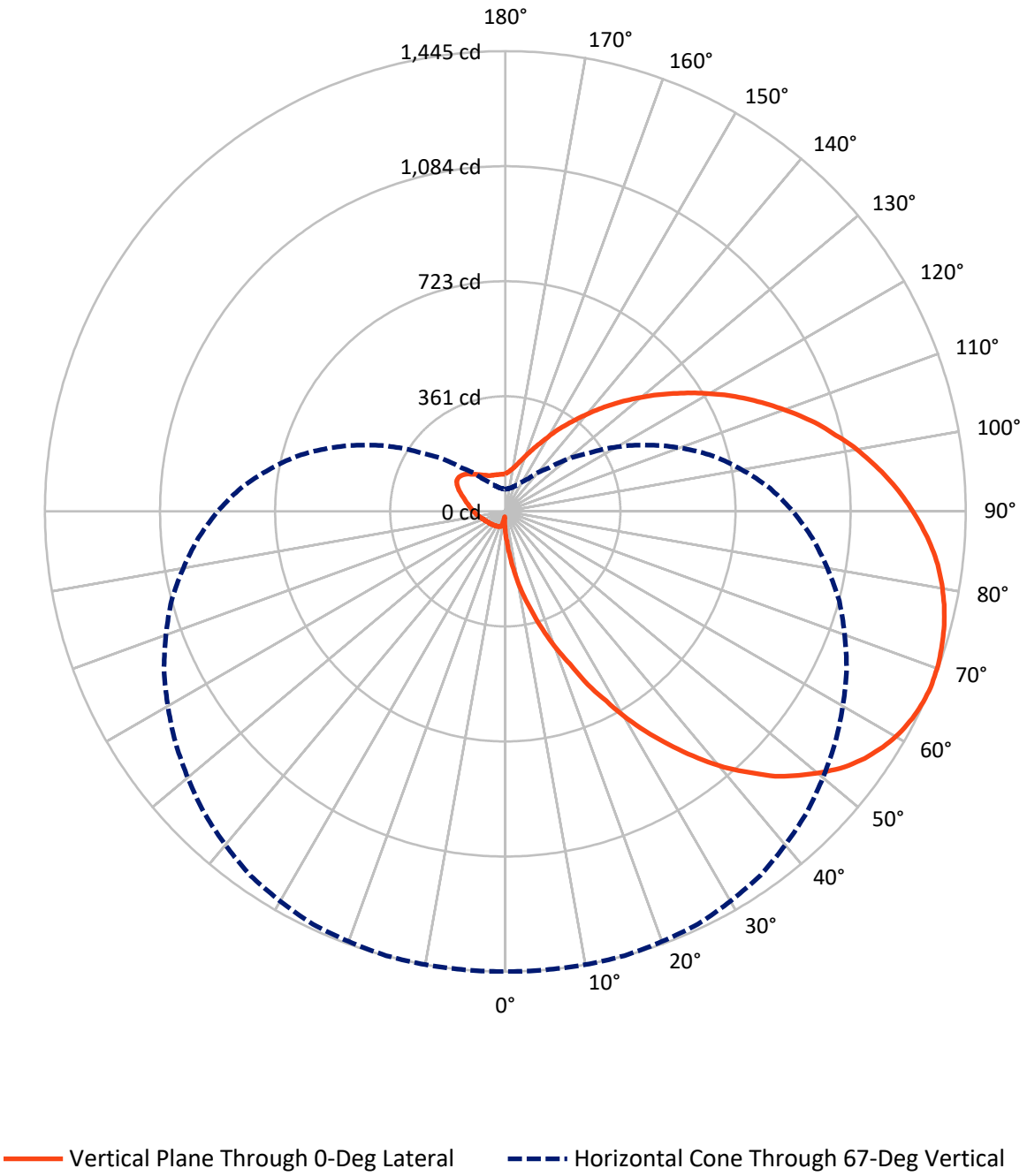
Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045834
CATALOG NUMBER: FFX-CLB-70-727-U-VM8-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

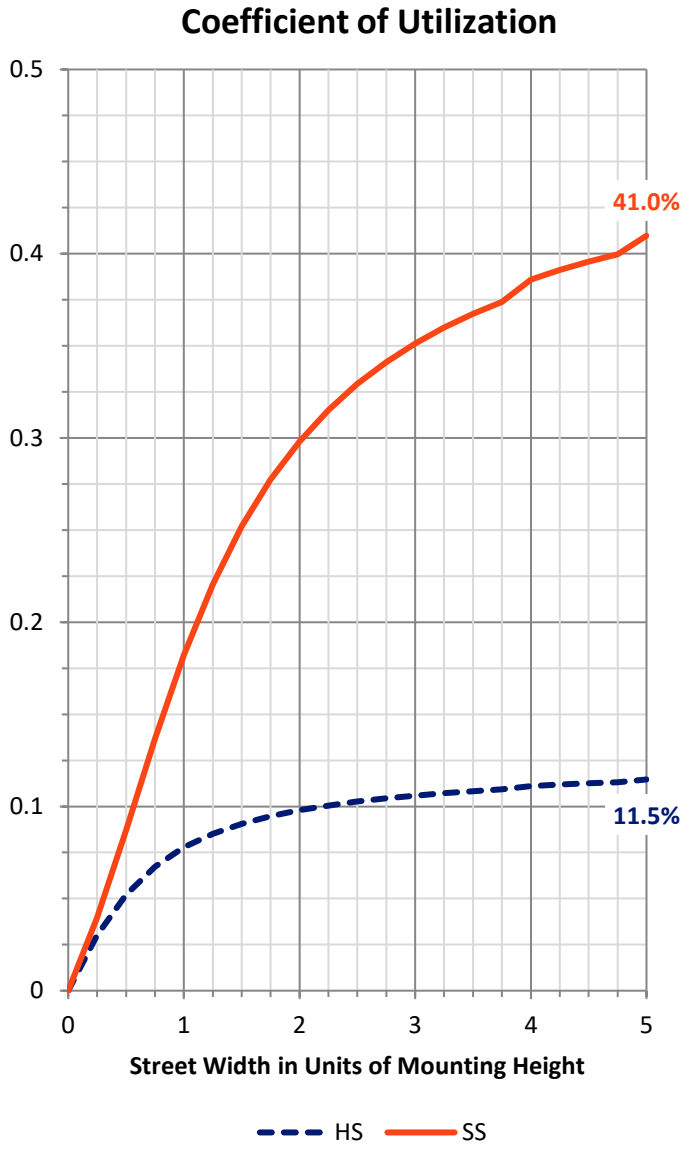
REPORT NUMBER: P1045834
CATALOG NUMBER: FFX-CLB-70-727-U-VM8-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	886.0	844.1	1730.1
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	3340.8	2083.9	5424.7
	% Fixture	46.7	29.1	75.8
Total	Lumens	4226.8	2928.0	7154.8
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.1
10°-20°	59.5	0.8
20°-30°	166.0	2.3
30°-40°	332.2	4.6
40°-50°	522.0	7.3
50°-60°	686.4	9.6
60°-70°	792.5	11.1
70°-80°	836.3	11.7
80°-90°	822.5	11.5
90°-100°	754.9	10.6
100°-110°	652.9	9.1
110°-120°	535.9	7.5
120°-130°	408.6	5.7
130°-140°	275.2	3.8
140°-150°	163.1	2.3
150°-160°	85.8	1.2
160°-170°	40.0	0.6
170°-180°	11.6	0.2
0°-90°	4226.8	59.1
0°-180°	7154.8	100.0



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

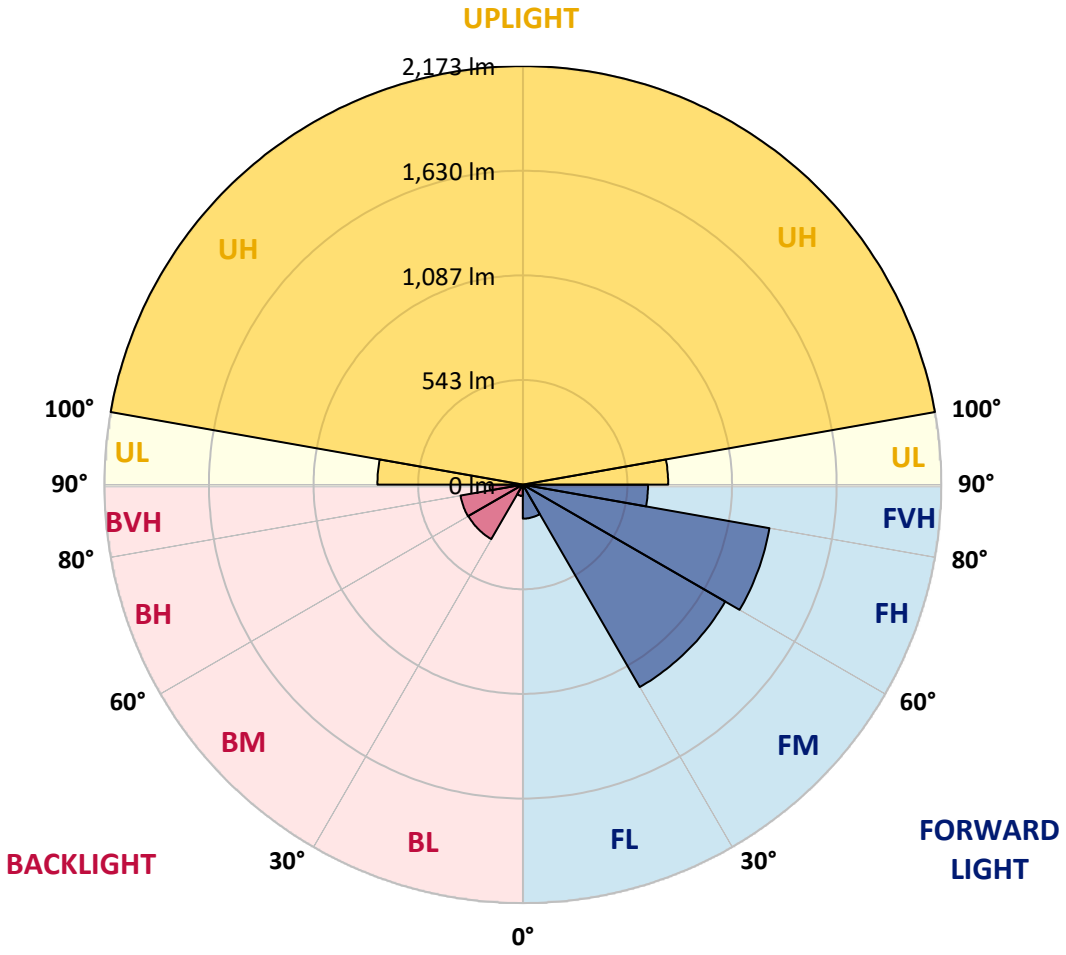
Scaled Data Report

REPORT NUMBER: P1045834
CATALOG NUMBER: FFX-CLB-70-727-U-VM8-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	176.5	2.5			
FM	(30°-60°)	1213.9	17.0			
FH	(60°-80°)	1300.4	18.2			G1/1800
FVH	(80°-90°)	650.0	9.1			G4/750
BL	(0°-30°)	58.4	0.8	B0/110		
BM	(30°-60°)	326.7	4.6	B1/1000		
BH	(60°-80°)	328.5	4.6	B1/500		G1/500
BVH	(80°-90°)	172.5	2.4			G2/225
UL	(90°-100°)	754.9	10.6		U4/1000	
UH	(100°-180°)	2173.1	30.4		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: P1045834
CATALOG NUMBER: FFX-CLB-70-727-U-VM8-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	*69.7*	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
2.5°	*92.4*	93.9	93.9	93.2	92.4	90.8	89.2	86.1	79.8	75.1	70.5
5°	*133.9*	133.9	134.6	133.9	130.7	127.6	120.6	115.1	104.9	97.1	88.5
7.5°	*181.6*	184.0	183.2	180.8	175.3	168.3	159.7	149.5	139.3	127.6	114.3
10°	*234.8*	234.1	234.1	230.9	224.7	215.3	205.9	194.1	179.3	164.4	147.2
12.5°	*284.9*	287.3	285.7	281.8	274.0	266.9	255.2	241.9	224.7	209.0	185.5
15°	*339.0*	340.5	340.5	338.2	331.1	320.9	307.6	295.1	272.4	250.5	227.8
17.5°	*400.8*	398.4	395.3	395.3	386.7	378.1	364.8	347.6	322.5	298.2	267.7
20°	*462.6*	461.9	457.9	455.6	450.1	437.6	420.4	400.8	375.7	348.3	312.3
22.5°	*520.6*	528.4	527.6	523.7	516.6	504.1	485.3	461.9	436.0	401.6	360.1
25°	*602.8*	598.1	598.8	594.9	588.7	573.8	555.0	527.6	496.3	457.9	411.0
27.5°	*674.0*	672.4	672.4	670.1	661.5	645.8	623.9	598.1	562.1	516.6	464.2
30°	*756.2*	752.3	750.7	748.4	739.7	722.5	699.8	667.7	628.6	582.4	520.6
32.5°	*833.7*	830.6	825.1	824.3	818.0	800.0	774.2	741.3	696.7	642.7	574.6
35°	*908.0*	909.6	907.3	903.4	894.7	877.5	852.5	812.5	768.7	706.1	632.5
37.5°	*983.2*	982.4	984.0	980.8	967.5	951.1	921.4	879.1	829.0	760.9	683.4
40°	*1056.8*	1052.9	1052.1	1049.0	1039.6	1023.1	989.5	946.4	890.0	819.6	731.9
42.5°	*1120.2*	1121.8	1120.2	1117.1	1104.5	1085.7	1050.5	1002.8	943.3	867.3	777.3
45°	*1186.7*	1184.4	1183.6	1183.6	1167.2	1147.6	1109.2	1059.9	993.4	912.0	816.5
47.5°	*1239.2*	1242.3	1240.7	1236.8	1225.9	1201.6	1160.9	1106.9	1037.2	953.5	851.7
50°	*1288.5*	1292.4	1293.2	1289.3	1276.0	1249.3	1207.1	1146.8	1076.4	987.9	882.2
52.5°	*1333.9*	1333.1	1335.5	1333.1	1320.6	1293.2	1244.7	1183.6	1107.7	1016.9	905.7
55°	*1369.1*	1369.1	1370.7	1367.6	1355.8	1325.3	1275.2	1210.2	1132.7	1039.6	926.1
57.5°	*1397.3*	1398.9	1398.1	1397.3	1384.0	1351.9	1298.7	1231.3	1153.1	1056.0	940.9
60°	*1419.2*	1420.0	1420.0	1418.4	1405.1	1371.5	1317.5	1247.8	1166.4	1070.1	952.7
62.5°	*1433.3*	1434.1	1434.1	1432.5	1419.2	1384.8	1330.0	1258.0	1175.8	1078.7	960.5
65°	*1441.9*	1442.7	1442.7	1441.1	1427.8	1392.6	1336.2	1263.4	1180.5	1083.4	965.2
67°	*1445.0*	*1445.0*	*1445.0*	*1444.3*	*1430.2*	*1395.7*	*1337.8*	*1264.2*	*1182.0*	*1085.0*	*967.5*
67.5°	*1444.3*	1444.3	1445.0	1443.5	1430.2	1394.9	1337.0	1264.2	1181.2	1085.0	967.5
70°	*1441.9*	1441.9	1441.9	1440.4	1427.0	1391.8	1333.9	1260.3	1178.9	1083.4	966.8
72.5°	*1433.3*	1434.1	1434.1	1432.5	1419.2	1384.8	1326.8	1253.3	1172.6	1078.7	964.4
75°	*1423.1*	1423.1	1423.1	1421.6	1408.3	1373.8	1316.7	1243.9	1164.8	1072.4	959.7
77.5°	*1408.3*	1408.3	1408.3	1406.7	1393.4	1359.7	1303.4	1232.1	1154.6	1063.8	954.2
80°	*1389.5*	1390.3	1389.5	1387.9	1374.6	1340.9	1286.9	1217.3	1141.3	1053.6	946.4
82.5°	*1367.6*	1368.3	1367.6	1364.4	1351.9	1319.8	1265.8	1197.7	1125.7	1040.3	937.0
85°	*1339.4*	1338.6	1339.4	1334.7	1323.7	1291.6	1242.3	1175.8	1106.1	1024.7	923.7
87.5°	*1307.3*	1308.1	1306.5	1304.1	1290.8	1259.5	1212.6	1150.7	1083.4	1005.9	908.0
90°	*1272.1*	1272.1	1271.3	1268.1	1254.0	1225.9	1181.2	1121.8	1059.1	984.8	891.6
92.5°	*1236.0*	1235.3	1232.9	1231.3	1218.8	1189.9	1146.8	1093.6	1034.9	963.6	874.4
95°	*1196.1*	1196.1	1194.6	1191.4	1177.3	1153.8	1112.4	1062.3	1006.7	940.9	856.4
97.5°	*1153.8*	1153.1	1152.3	1147.6	1135.1	1111.6	1077.9	1029.4	978.5	916.7	836.0
100°	*1112.4*	1110.0	1108.4	1103.7	1092.8	1070.1	1038.0	995.7	946.4	890.0	814.1
102.5°	*1063.8*	1063.8	1063.0	1058.3	1044.3	1025.5	996.5	958.9	916.7	862.6	790.6
105°	*1020.8*	1016.9	1015.3	1010.6	999.6	979.3	955.0	922.1	883.0	832.9	767.1
107.5°	*972.2*	969.1	968.3	961.3	952.7	933.9	913.5	883.0	850.1	805.5	742.9

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

Scaled Data Report

REPORT NUMBER: P1045834
CATALOG NUMBER: FFX-CLB-70-727-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*922.9*	921.4	920.6	913.5	902.6	890.0	868.9	844.6	815.7	775.0	720.2
112.5°	*874.4*	872.8	872.8	867.3	857.2	841.5	826.6	805.5	779.7	744.4	693.6
115°	*826.6*	824.3	823.5	817.2	807.1	795.3	780.5	765.6	743.7	713.9	667.7
117.5°	*778.9*	775.8	776.5	771.1	763.2	751.5	737.4	727.2	708.4	681.0	641.9
120°	*729.6*	730.4	730.4	723.3	716.3	706.9	695.1	685.0	672.4	648.2	612.1
122.5°	*682.6*	684.2	684.2	679.5	670.9	662.2	654.4	645.0	634.1	615.3	583.2
125°	*635.6*	638.8	637.2	633.3	626.2	616.8	611.4	603.5	594.9	579.3	551.1
127.5°	*592.6*	592.6	588.7	589.4	582.4	574.6	569.9	564.4	555.8	540.9	518.2
130°	*548.0*	548.7	549.5	544.8	538.6	532.3	527.6	525.3	518.2	505.7	483.0
132.5°	*507.3*	507.3	505.7	502.6	497.1	492.4	492.4	485.3	479.9	468.1	448.5
135°	*467.3*	466.5	466.5	463.4	459.5	457.2	451.7	448.5	443.1	432.1	417.2
137.5°	*428.2*	429.8	428.2	425.8	421.9	418.8	414.9	414.1	406.3	398.4	382.0
140°	*390.6*	393.0	390.6	389.8	386.7	382.8	380.4	377.3	375.0	364.8	350.7
142.5°	*355.4*	357.0	355.4	354.6	352.3	349.1	347.6	345.2	339.7	333.5	321.7
145°	*324.9*	324.1	324.1	323.3	320.2	317.8	315.5	313.9	310.8	304.5	291.2
147.5°	*295.1*	292.8	294.3	292.8	290.4	288.9	288.1	284.9	281.8	275.5	266.2
150°	*264.6*	266.2	265.4	264.6	262.2	262.2	259.9	257.5	255.2	248.1	241.9
152.5°	*239.5*	239.5	240.3	238.8	238.0	235.6	234.1	233.3	230.1	225.4	218.4
155°	*218.4*	217.6	217.6	217.6	216.1	213.7	212.9	211.4	209.8	204.3	198.0
157.5°	*198.0*	198.0	198.0	197.3	197.3	194.9	194.1	191.8	189.4	186.3	180.8
160°	*180.8*	180.8	180.0	180.0	179.3	178.5	176.9	174.6	173.0	170.7	166.0
162.5°	*166.7*	166.0	166.0	165.2	164.4	162.8	162.0	161.3	158.9	156.6	152.6
165°	*153.4*	153.4	153.4	152.6	151.9	151.1	150.3	148.7	147.2	145.6	143.3
167.5°	*143.3*	143.3	143.3	142.5	142.5	141.7	140.9	139.3	137.8	136.2	134.6
170°	*135.4*	135.4	135.4	134.6	133.9	133.1	132.3	131.5	130.7	129.2	128.4
172.5°	*129.2*	129.2	129.2	129.2	127.6	126.8	126.0	126.0	125.2	124.5	123.7
175°	*123.7*	123.7	123.7	123.7	122.9	122.1	121.3	121.3	120.6	119.8	119.0
177.5°	*120.6*	120.6	120.6	119.8	119.8	119.0	118.2	118.2	117.4	117.4	116.6
180°	*116.6*	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6

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

Scaled Data Report

REPORT NUMBER: P1045834
CATALOG NUMBER: FFX-CLB-70-727-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
2.5°	67.3	64.2	58.7	54.0	50.1	46.2	43.8	41.5	41.5	42.3	40.7
5°	81.4	75.9	65.8	54.8	45.4	37.6	31.3	25.8	21.1	18.8	18.8
7.5°	108.0	101.8	87.7	73.6	60.3	47.8	37.6	29.0	21.9	18.0	17.2
10°	138.6	131.5	111.9	94.7	78.3	62.6	49.3	37.6	29.7	25.8	25.0
12.5°	173.8	164.4	140.9	119.0	97.9	78.3	61.8	48.5	40.7	36.8	36.0
15°	214.5	199.6	173.0	145.6	118.2	93.9	74.4	59.5	50.9	45.4	45.4
17.5°	251.3	235.6	203.5	168.3	137.0	108.8	85.3	67.3	55.6	50.1	49.3
20°	293.6	272.4	234.1	193.4	155.0	120.6	92.4	72.0	57.9	50.9	50.9
22.5°	336.6	314.7	267.7	218.4	172.2	131.5	99.4	75.1	59.5	51.7	50.9
25°	387.5	357.7	301.4	245.8	191.8	143.3	105.7	78.3	61.1	53.2	51.7
27.5°	436.8	406.3	340.5	273.2	209.8	155.0	111.2	81.4	62.6	54.0	53.2
30°	488.5	450.9	376.5	301.4	228.6	165.2	116.6	83.8	63.4	54.8	53.2
32.5°	540.1	498.6	416.4	328.8	246.6	174.6	121.3	85.3	65.0	55.6	54.0
35°	592.6	548.0	454.8	356.2	263.0	183.2	124.5	86.9	65.8	55.6	54.8
37.5°	638.0	591.0	490.8	381.2	277.1	190.2	127.6	88.5	65.8	56.4	55.6
40°	683.4	632.5	522.1	402.4	289.6	195.7	129.9	89.2	66.5	57.1	56.4
42.5°	724.1	667.7	549.5	421.1	299.8	199.6	130.7	89.2	67.3	57.9	57.1
45°	760.9	703.7	575.4	439.2	308.4	202.0	131.5	90.0	68.1	58.7	57.9
47.5°	794.5	733.5	598.8	454.0	315.5	204.3	131.5	90.0	68.9	60.3	58.7
50°	822.7	758.5	618.4	466.5	320.2	205.1	130.7	90.0	69.7	61.1	60.3
52.5°	844.6	779.7	634.9	475.2	323.3	204.3	129.9	90.0	70.5	61.8	61.1
55°	863.4	796.9	646.6	482.2	324.1	202.7	129.2	90.0	71.2	63.4	62.6
57.5°	877.5	809.4	656.8	487.7	324.9	201.2	127.6	90.0	72.0	64.2	63.4
60°	888.5	820.4	664.6	490.8	324.1	198.8	126.8	90.0	72.8	65.8	65.0
62.5°	896.3	826.6	669.3	491.6	321.7	196.5	125.2	90.0	73.6	67.3	66.5
65°	901.0	831.3	673.2	492.4	319.4	194.1	124.5	90.8	75.1	69.7	68.9
67°	*902.6*	*833.7*	*674.0*	*492.4*	*317.8*	*192.6*	*124.5*	*91.6*	*76.7*	*70.5*	*69.7*
67.5°	903.4	833.7	674.0	491.6	317.0	192.6	124.5	91.6	76.7	71.2	70.5
70°	902.6	833.7	674.0	490.0	314.7	191.0	123.7	93.2	79.1	73.6	72.8
72.5°	901.0	832.1	672.4	487.7	311.6	189.4	124.5	94.7	81.4	75.9	75.1
75°	897.1	829.0	669.3	484.6	309.2	187.9	125.2	96.3	83.8	79.1	78.3
77.5°	893.2	825.1	666.9	481.4	306.9	187.9	126.0	98.6	86.9	82.2	81.4
80°	886.1	819.6	662.2	478.3	304.5	187.1	127.6	101.8	90.0	85.3	84.5
82.5°	877.5	811.8	656.0	473.6	302.2	187.1	129.9	104.1	93.2	88.5	87.7
85°	865.8	801.6	648.2	467.3	299.8	187.9	131.5	107.2	96.3	92.4	91.6
87.5°	852.5	789.1	638.8	461.9	297.5	187.9	133.9	110.4	99.4	95.5	95.5
90°	836.8	775.8	627.8	455.6	295.1	189.4	137.0	113.5	103.3	99.4	99.4
92.5°	822.7	761.7	619.2	449.3	293.6	191.0	140.1	117.4	107.2	103.3	103.3
95°	803.9	746.8	606.7	443.8	292.8	192.6	143.3	121.3	111.9	108.0	107.2
97.5°	785.9	730.4	595.7	437.6	292.0	195.7	147.2	126.0	115.9	111.9	111.9
100°	766.4	713.9	583.2	432.1	292.0	199.6	152.6	130.7	121.3	117.4	116.6
102.5°	747.6	695.9	570.7	426.6	293.6	203.5	158.1	136.2	126.8	122.9	122.1
105°	726.4	677.1	559.7	421.9	295.1	209.0	164.4	143.3	133.1	129.2	128.4
107.5°	705.3	659.9	547.2	418.0	298.2	216.1	172.2	150.3	140.1	135.4	134.6

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

Scaled Data Report

REPORT NUMBER: P1045834
CATALOG NUMBER: FFX-CLB-70-727-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	682.6	641.1	536.2	414.9	302.9	223.9	180.8	159.7	147.9	143.3	142.5
112.5°	661.5	622.3	524.5	412.5	307.6	233.3	191.0	168.3	157.3	151.1	150.3
115°	638.0	602.8	513.5	410.2	313.1	242.7	202.0	177.7	166.0	159.7	159.7
117.5°	615.3	582.4	501.0	407.8	318.6	252.8	212.1	187.9	174.6	168.3	167.5
120°	588.7	560.5	487.7	403.1	321.7	260.7	220.7	196.5	181.6	175.3	174.6
122.5°	562.1	536.2	470.5	396.1	322.5	265.4	227.0	203.5	187.9	180.8	180.0
125°	531.5	509.6	452.5	385.1	320.2	267.7	230.9	205.9	190.2	182.4	181.6
127.5°	501.8	480.6	431.3	371.8	313.9	265.4	230.1	205.9	190.2	181.6	180.8
130°	469.7	450.9	406.3	355.4	303.7	259.9	227.0	202.7	187.1	178.5	177.7
132.5°	436.8	421.1	382.0	337.4	291.2	251.3	220.0	197.3	181.6	173.8	173.0
135°	404.7	390.6	357.0	317.0	277.9	241.1	212.1	190.2	174.6	167.5	167.5
137.5°	374.2	360.9	331.1	297.5	262.2	229.4	202.7	181.6	168.3	161.3	159.7
140°	342.9	331.9	306.1	276.3	245.8	216.8	192.6	173.0	160.5	154.2	153.4
142.5°	313.9	304.5	282.6	258.3	230.1	205.1	182.4	166.0	154.2	147.9	147.2
145°	286.5	277.9	259.1	237.2	214.5	192.6	172.2	157.3	147.2	142.5	141.7
147.5°	259.1	253.6	238.0	220.0	198.8	179.3	162.8	150.3	140.9	137.0	136.2
150°	236.4	229.4	217.6	201.2	184.7	168.3	154.2	143.3	136.2	132.3	132.3
152.5°	213.7	209.8	198.0	185.5	171.4	158.1	145.6	137.0	131.5	128.4	128.4
155°	196.5	191.0	180.8	170.7	158.9	147.9	139.3	132.3	127.6	125.2	124.5
157.5°	178.5	175.3	167.5	158.1	149.5	140.9	133.9	128.4	124.5	122.9	122.1
160°	163.6	161.3	155.0	147.9	140.9	134.6	129.2	125.2	122.1	120.6	120.6
162.5°	151.1	149.5	144.0	139.3	133.9	129.2	125.2	122.1	120.6	119.8	119.8
165°	141.7	140.1	136.2	132.3	129.2	125.2	122.9	120.6	119.0	119.0	119.0
167.5°	133.9	132.3	129.9	127.6	125.2	122.1	120.6	119.0	119.0	118.2	118.2
170°	127.6	126.8	124.5	122.9	121.3	119.8	119.0	118.2	117.4	117.4	117.4
172.5°	122.9	122.1	120.6	119.8	118.2	117.4	117.4	117.4	117.4	117.4	117.4
175°	119.0	118.2	118.2	117.4	116.6	116.6	115.9	116.6	116.6	116.6	116.6
177.5°	116.6	116.6	115.9	115.9	115.9	115.9	115.9	116.6	116.6	117.4	117.4
180°	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6

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: SP1-2501-332-3

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

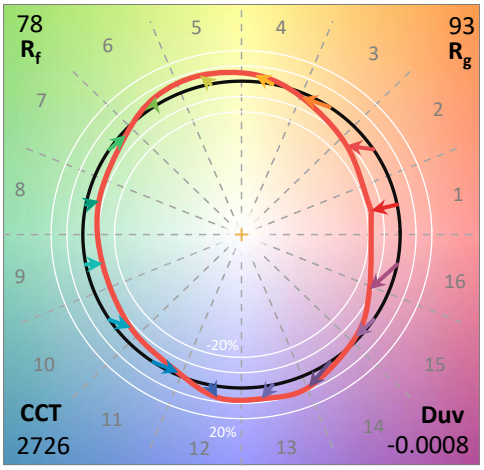
Test Information

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

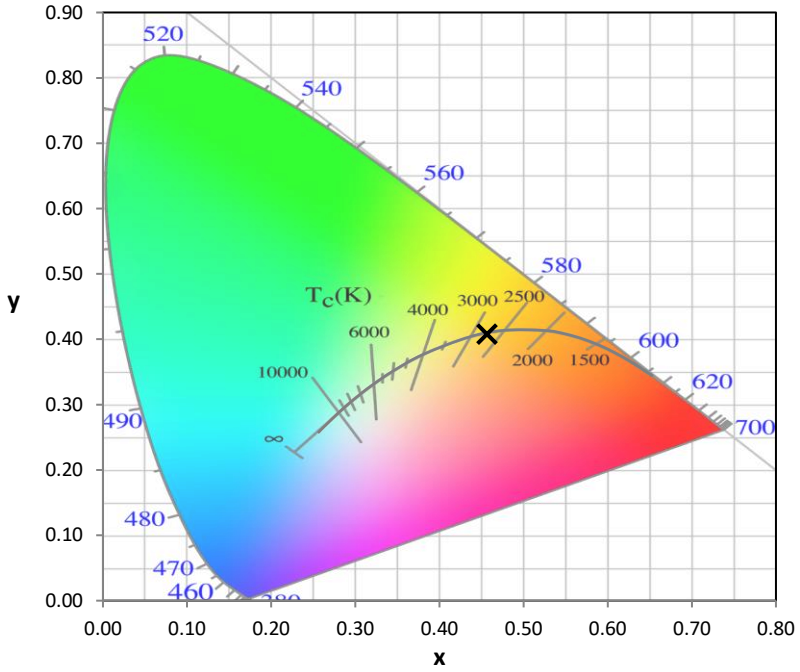
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

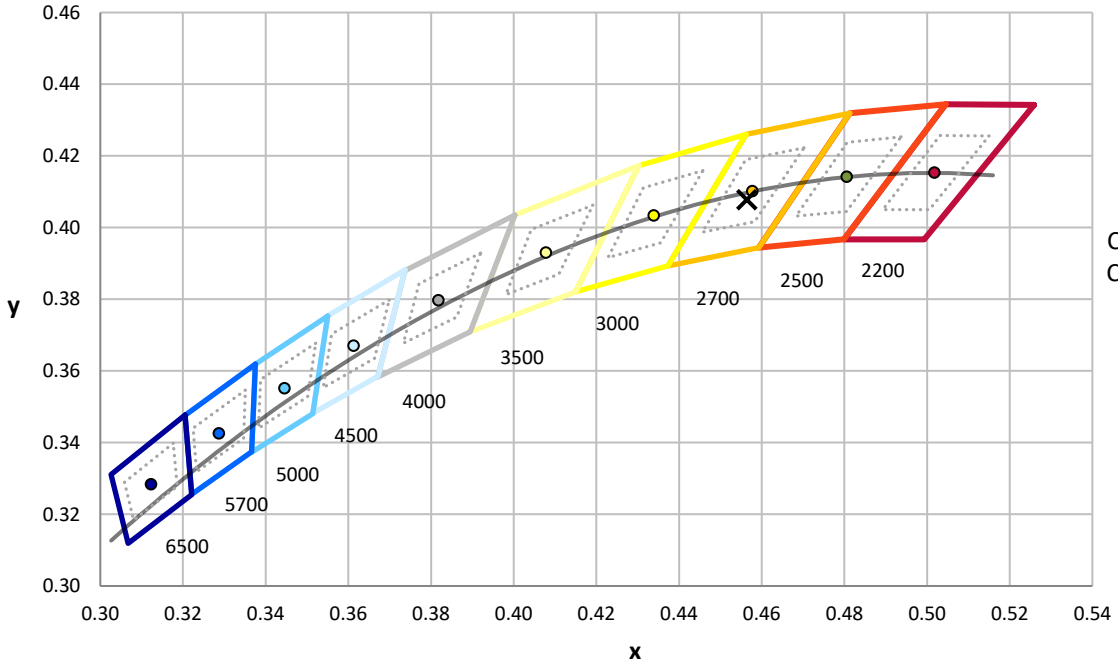
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

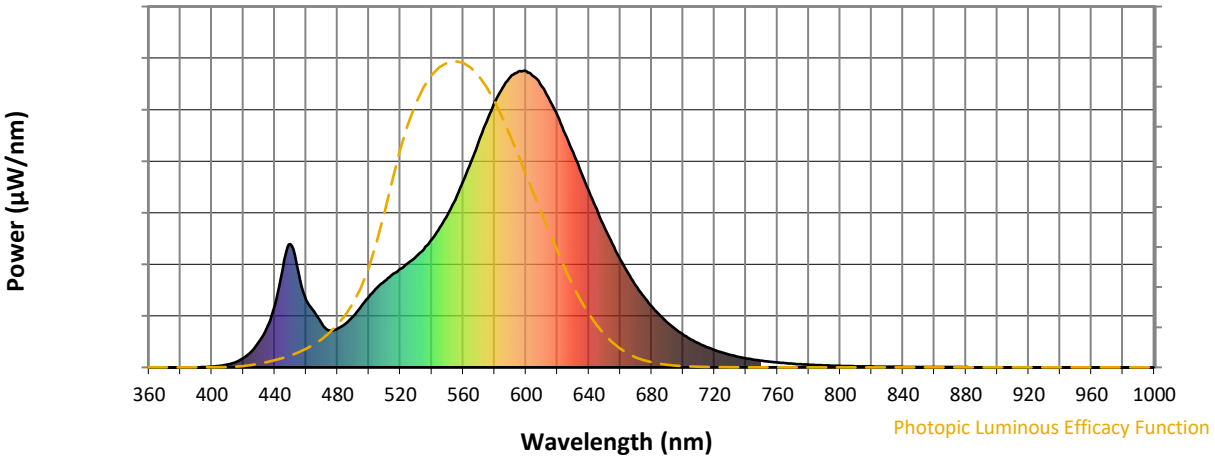


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

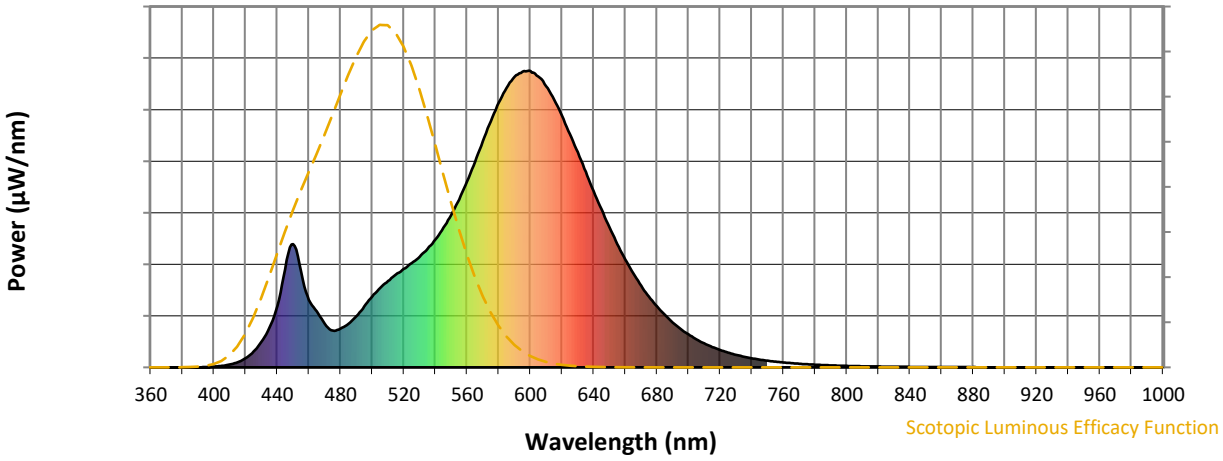


Photopic Lumens: NR

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

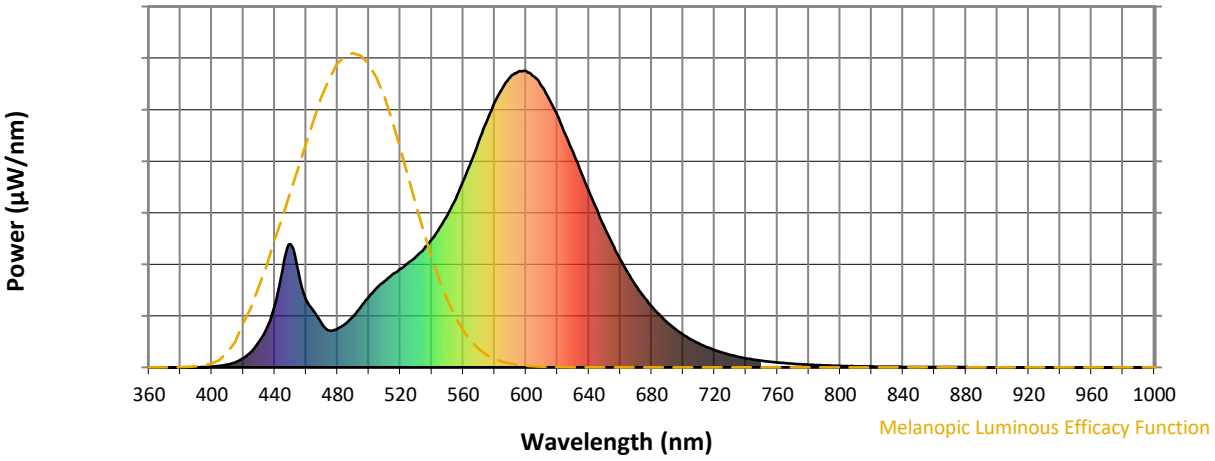


Scotopic Lumens: NR **S/P: 1.16**

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			

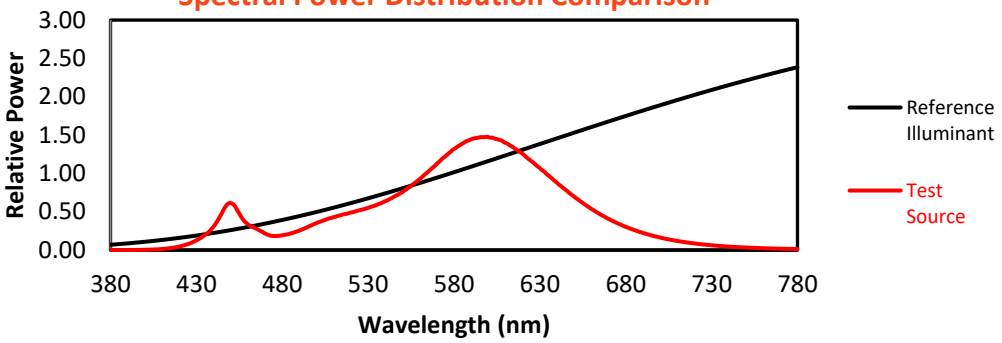
REPORT NUMBER: SP1-2501-332-3

TM-30-18

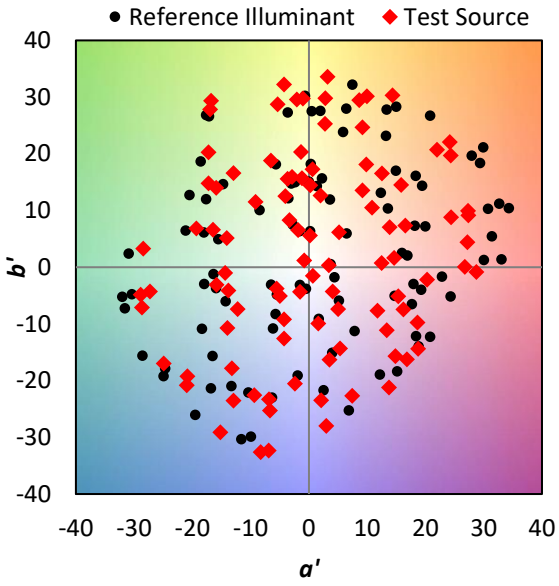
Summary

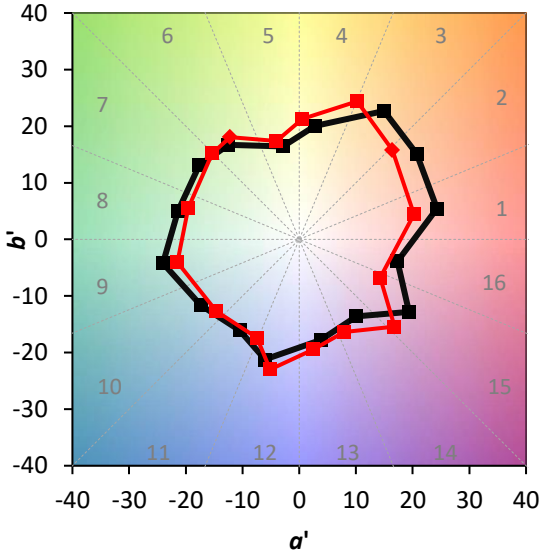
R_f = 77.8
R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

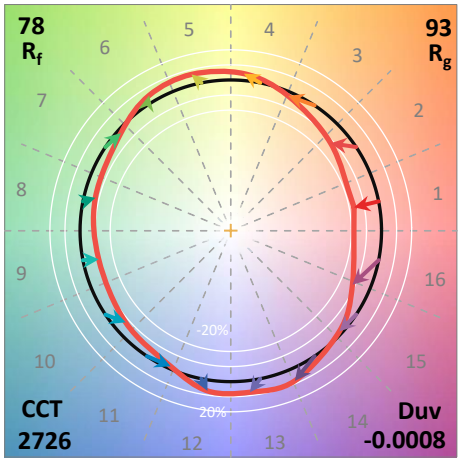
Spectral Power Distribution Comparison

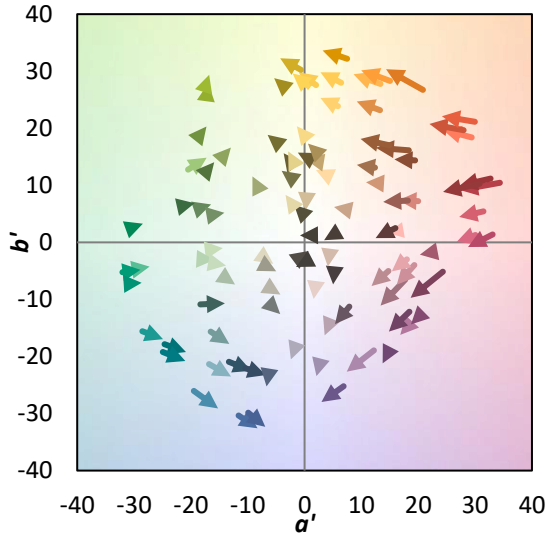


Color Vector Graphics







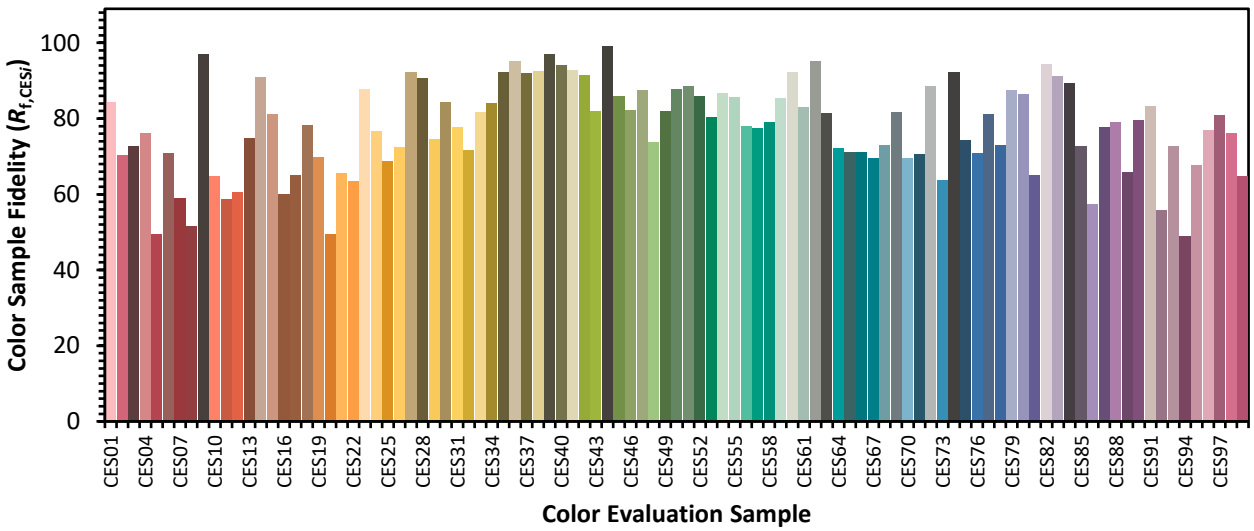


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

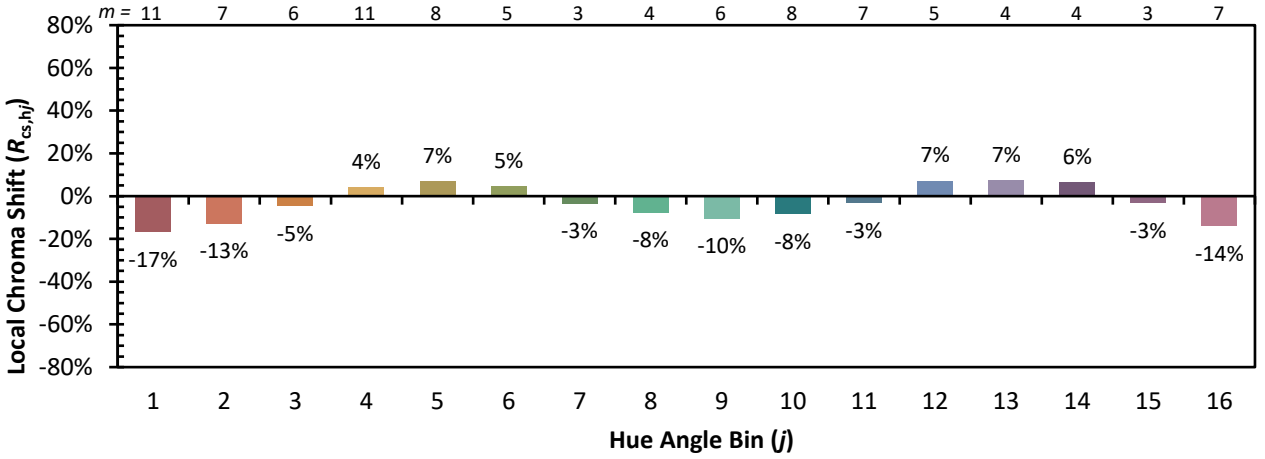
CES01 = 86	CES26 = 72	CES51 = 88	CES76 = 71
CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 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	

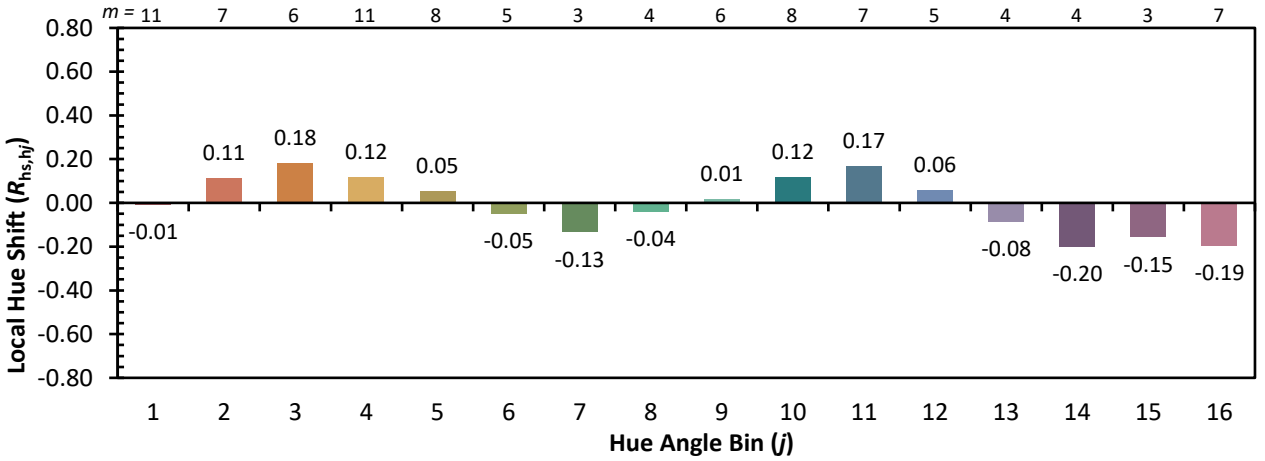


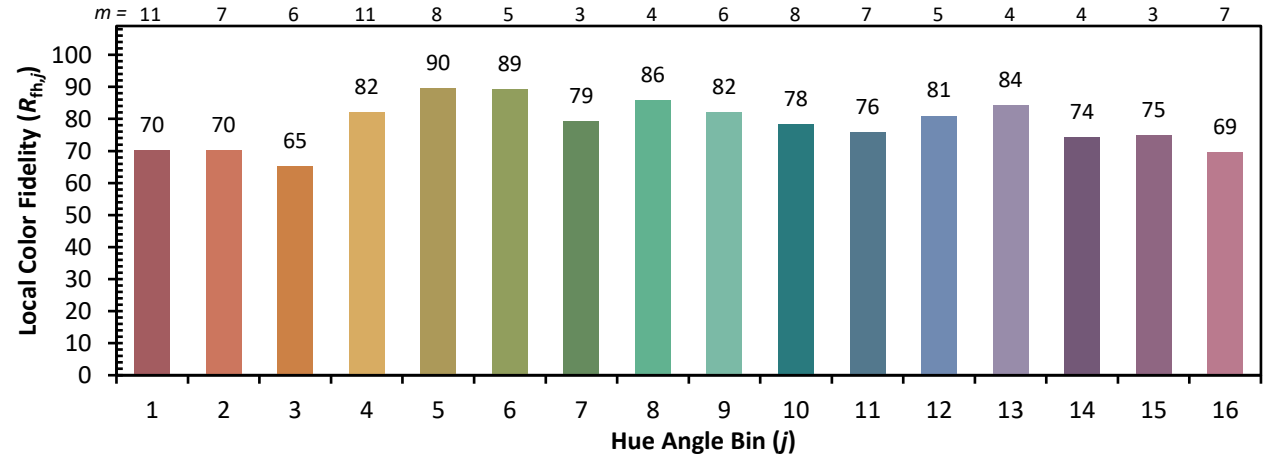
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



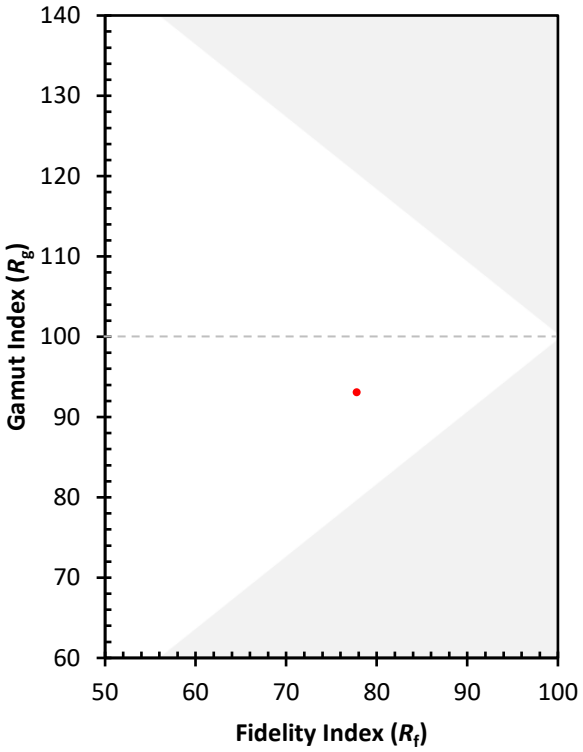


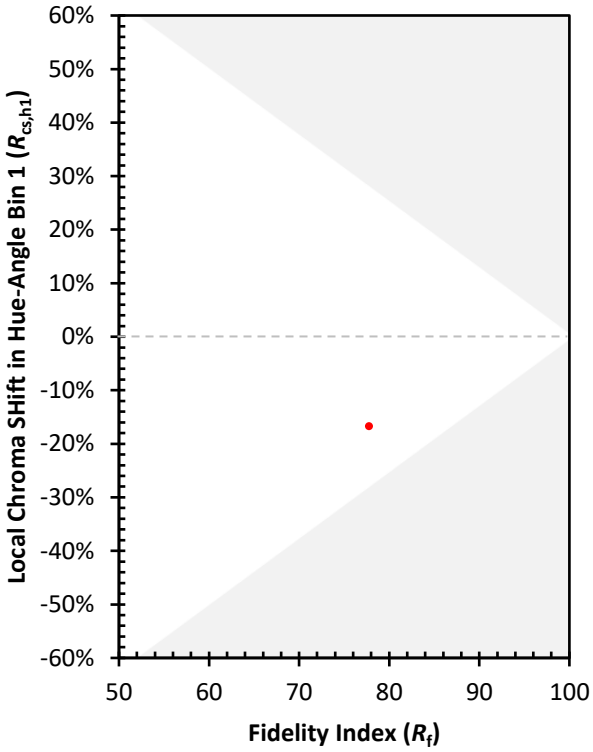


REPORT NUMBER: SP1-2501-332-3

TM-30-18

Measure Comparisons





(END OF REPORT)