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: P1046599

Luminaire Tested: **FFX-CLB-70-727-U-FR-T3-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:	P1046599
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-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9288.7 lumens
Efficiency:	N/A
Efficacy:	130.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - G3

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

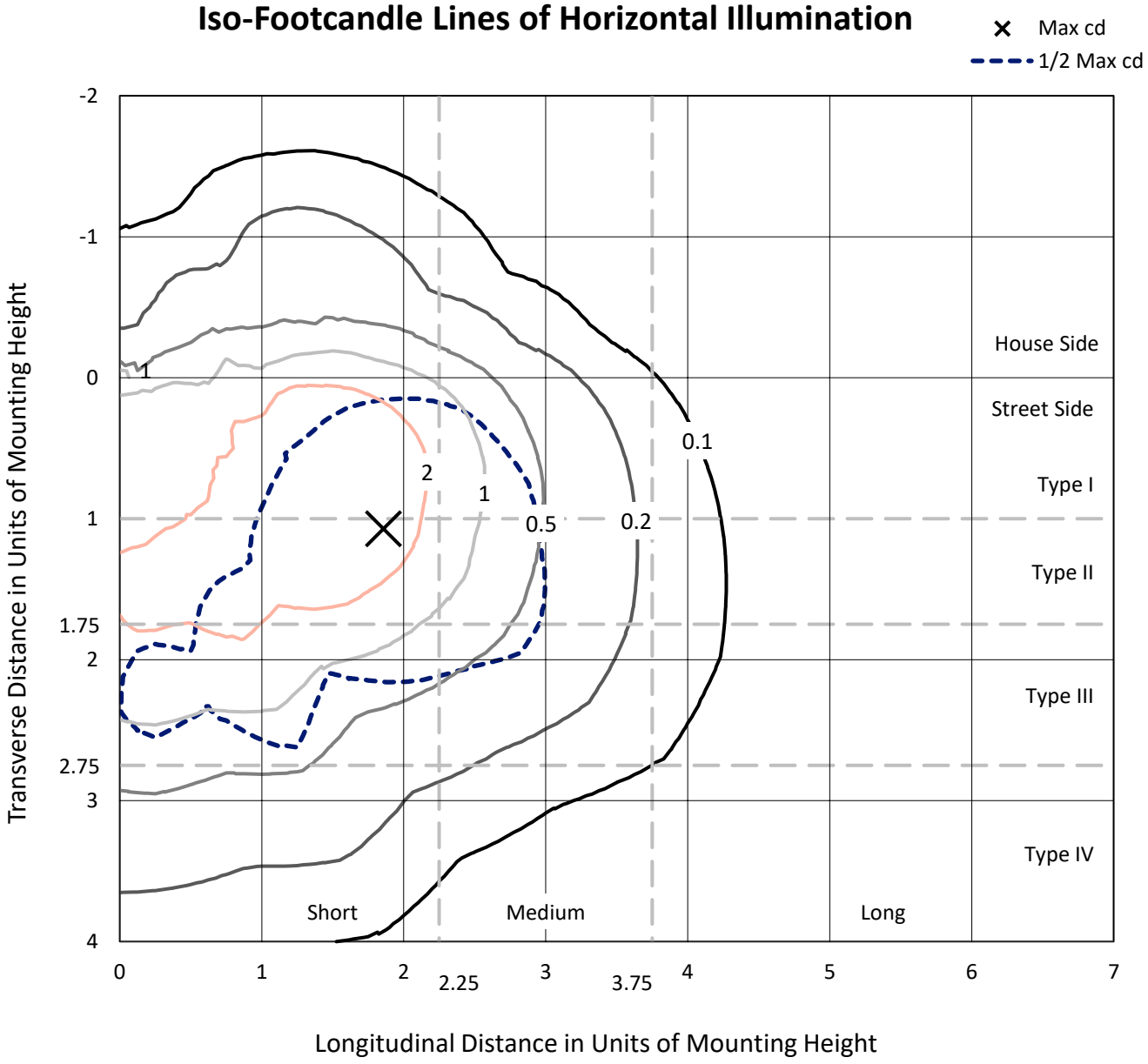


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046599
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



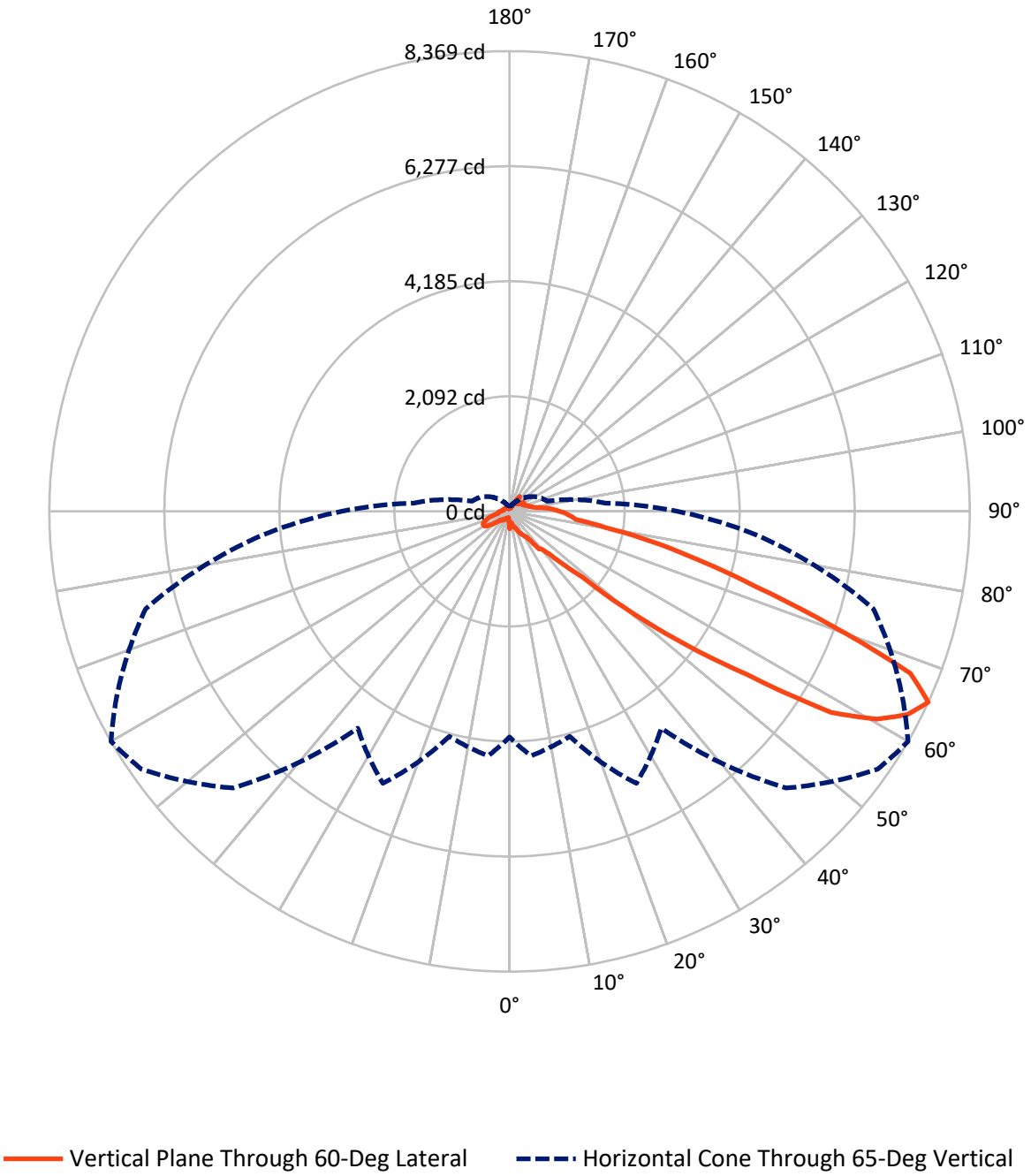
Based on 15 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046599
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

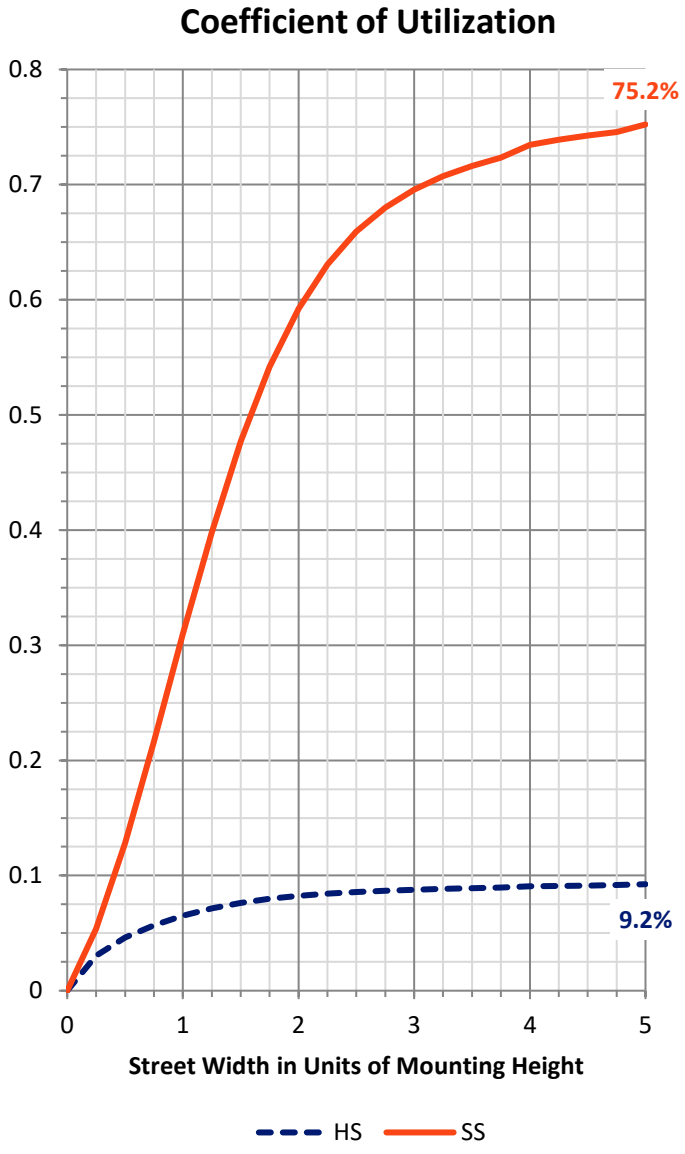
REPORT NUMBER: P1046599
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	900.6	290.7	1191.3
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	7238.2	859.2	8097.4
	% Fixture	77.9	9.2	87.2
Total	Lumens	8138.9	1149.9	9288.7
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	0.2
10°-20°	59.5	0.6
20°-30°	127.1	1.4
30°-40°	260.9	2.8
40°-50°	611.3	6.6
50°-60°	1912.0	20.6
60°-70°	2993.8	32.2
70°-80°	1583.8	17.1
80°-90°	573.5	6.2
90°-100°	345.8	3.7
100°-110°	216.6	2.3
110°-120°	175.1	1.9
120°-130°	146.1	1.6
130°-140°	106.4	1.1
140°-150°	97.8	1.1
150°-160°	40.7	0.4
160°-170°	16.2	0.2
170°-180°	5.2	0.1
0°-90°	8138.9	87.6
0°-180°	9288.7	100.0



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

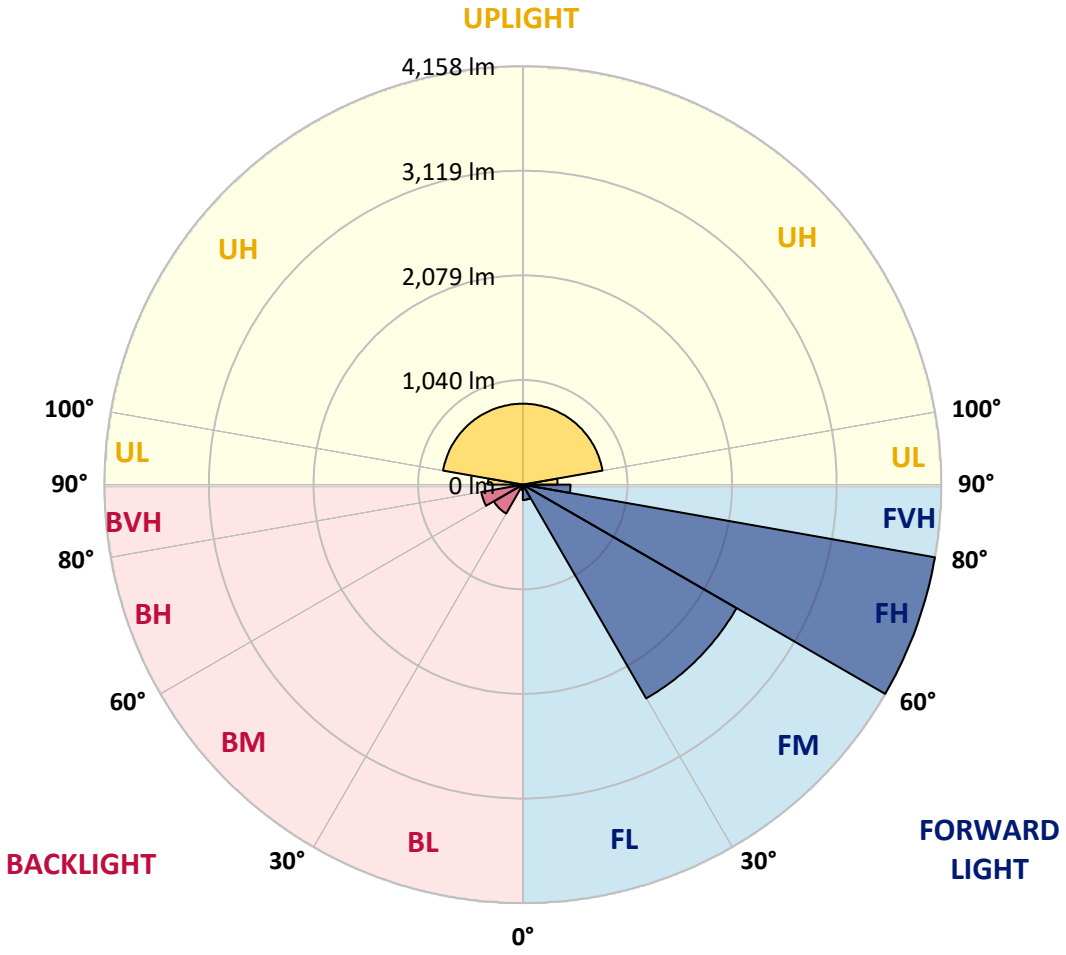
Scaled Data Report

REPORT NUMBER: P1046599
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	153.1	1.6			
FM	(30°-60°)	2452.9	26.4			
FH	(60°-80°)	4158.4	44.8			G2/5000
FVH	(80°-90°)	473.9	5.1			G3/500
BL	(0°-30°)	50.6	0.5	B0/110		
BM	(30°-60°)	331.2	3.6	B1/1000		
BH	(60°-80°)	419.2	4.5	B1/500		G1/500
BVH	(80°-90°)	99.6	1.1			G1/100
UL	(90°-100°)	345.8	3.7		U3/500	
UH	(100°-180°)	804.1	8.7		U4/1000	

BUG Rating: B1-U4-G3
Type III Short



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

Scaled Data Report

REPORT NUMBER: P1046599
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	317.9	317.9	317.9	317.9	317.9	317.9	317.9	317.9	317.9	317.9	317.9
2.5°	173.9	180.7	220.1	260.9	272.4	247.3	214.0	218.1	236.4	324.1	362.8
5°	203.8	205.8	202.4	207.2	235.7	271.7	250.7	226.2	193.6	139.9	138.6
7.5°	234.4	234.4	233.0	216.0	196.3	190.2	208.6	212.0	208.6	173.9	150.1
10°	255.4	255.4	254.8	256.1	257.5	250.7	220.8	209.2	197.0	182.1	175.3
12.5°	309.8	311.1	320.0	315.2	297.6	279.2	282.6	279.2	260.9	228.9	202.4
15°	379.1	381.8	383.2	365.5	337.0	303.0	281.3	275.8	272.4	254.1	227.6
17.5°	415.1	413.7	397.4	379.1	360.7	336.3	315.9	307.7	295.5	272.4	243.9
20°	411.0	411.0	394.7	390.6	392.0	377.0	351.2	341.0	327.5	305.7	266.3
22.5°	422.6	423.2	413.0	416.4	431.4	416.4	391.3	384.5	371.6	340.4	300.3
25°	466.7	466.7	455.2	450.4	463.3	457.9	443.6	435.5	417.1	379.1	308.4
27.5°	506.8	504.1	493.2	494.6	482.3	479.6	476.2	472.8	456.5	396.1	312.5
30°	538.1	538.1	528.5	534.7	508.8	512.9	500.7	510.2	489.1	419.2	328.1
32.5°	566.6	570.7	567.3	575.4	544.8	562.5	541.4	551.6	538.7	460.6	372.3
35°	632.5	637.2	652.9	673.2	635.9	654.2	620.9	635.2	622.3	554.4	457.2
37.5°	894.0	886.6	852.6	819.3	783.3	858.7	850.6	864.1	843.8	734.4	577.5
40°	899.5	895.4	888.6	867.5	799.6	874.3	877.7	902.2	963.3	788.1	624.3
42.5°	922.6	927.3	1008.2	1018.4	967.4	1083.6	1051.6	1053.0	1262.2	933.4	805.7
45°	1067.3	1067.3	1093.1	1106.0	1091.0	1424.6	1419.9	1379.1	1642.7	1164.4	947.7
47.5°	1223.5	1228.3	1275.8	1403.6	1487.1	1803.0	1896.8	1798.9	2144.7	1527.9	1305.7
50°	1680.7	1690.2	1838.3	1950.4	2107.4	2639.3	3100.6	2951.8	3494.6	2330.9	1967.4
52.5°	2011.6	2129.8	2211.3	2633.2	2694.3	3511.6	4106.7	4055.8	4419.9	3226.3	2387.9
55°	2394.1	2578.2	2632.5	3286.7	3396.1	4531.3	5148.9	5239.2	5261.6	4170.6	2807.1
57.5°	3023.8	3309.2	3319.3	4010.9	4030.0	5712.0	6695.1	6894.1	6667.2	5269.8	3468.1
60°	3542.9	3877.1	3765.0	4706.6	4517.7	6667.2	7447.1	7672.7	7251.5	6209.3	3930.1
62.5°	3864.2	4186.9	4039.5	5195.7	4811.2	7076.9	7896.2	8127.8	7664.5	6708.7	4285.4
65°	4104.0	4462.0	4235.1	5456.6	4810.5	7113.6	8173.4	8369.0	7873.1	6852.0	4390.0
67.5°	4108.8	4430.1	4146.8	5363.5	4490.6	6532.7	7740.6	7864.2	7314.0	6343.2	4078.9
70°	3591.8	3822.7	3508.2	4526.6	3622.3	4958.0	6044.9	6191.7	5638.0	4876.4	3160.4
72.5°	3005.5	3095.8	2784.0	3620.3	2837.0	3752.1	4621.0	4676.0	4383.2	3652.9	2443.0
75°	2360.1	2325.4	2163.8	2699.1	2157.0	2658.3	3629.1	3576.1	3415.1	2688.2	1864.2
77.5°	1574.8	1510.2	1518.4	1851.9	1506.8	1758.9	2642.7	2644.7	2588.4	1993.2	1329.5
80°	960.6	962.7	936.2	1174.6	994.6	1169.2	1821.4	1761.6	1762.9	1314.6	930.7
82.5°	751.4	763.6	730.3	846.5	783.3	930.0	1190.2	1223.5	1187.5	965.4	685.5
85°	737.8	748.7	714.0	786.0	744.6	888.6	1119.6	1116.9	1097.8	895.4	648.1
87.5°	676.0	688.9	663.1	713.3	681.4	822.7	1030.6	1017.0	998.7	842.4	618.2
90°	570.7	594.4	576.8	639.3	595.1	707.9	896.1	890.6	881.1	744.6	550.3
92.5°	519.0	523.8	510.9	567.3	518.4	620.3	795.5	778.5	757.5	646.1	468.8
95°	464.7	462.6	450.4	495.9	452.5	519.0	676.0	650.1	639.3	545.5	391.3
97.5°	372.3	373.0	366.9	398.1	366.9	414.4	507.5	498.0	476.2	407.6	299.6
100°	326.1	328.1	324.1	348.5	322.0	352.6	422.6	420.5	402.9	347.8	261.6
102.5°	308.4	309.1	314.5	329.5	304.4	326.8	385.2	385.9	374.3	324.1	245.9
105°	296.2	295.5	299.6	311.8	290.1	306.4	360.1	360.1	343.8	305.7	233.0
107.5°	286.7	285.3	292.1	302.3	287.4	292.1	333.6	336.3	320.7	284.7	221.5
110°	275.8	275.1	286.7	294.2	279.9	280.6	316.6	314.5	300.3	277.2	218.1

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

Scaled Data Report

REPORT NUMBER: P1046599
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	279.9	284.0	296.9	275.8	254.8	256.1	284.0	*287.4*	277.2	253.4	207.2
115°	276.5	280.6	297.6	267.7	236.4	244.6	267.7	*270.4*	255.4	235.7	195.0
117.5°	264.3	265.6	275.8	268.3	235.7	245.2	256.8	*261.6*	250.7	235.7	197.0
120°	312.5	302.3	302.3	290.8	254.1	271.1	292.8	*296.9*	286.7	258.8	196.3
122.5°	287.4	284.0	284.7	269.7	251.4	265.6	291.4	*298.2*	289.4	261.6	196.3
125°	226.2	226.9	223.5	228.3	220.8	225.5	239.1	*250.0*	241.9	226.9	186.8
127.5°	205.8	205.2	201.1	221.5	198.4	207.9	220.8	*226.9*	218.8	201.8	169.2
130°	200.4	200.4	212.0	233.0	219.4	215.4	210.6	*216.7*	215.4	204.5	169.2
132.5°	187.5	188.2	205.2	232.3	226.9	207.9	190.9	*194.3*	200.4	203.1	178.7
135°	187.5	185.5	180.0	186.1	182.7	187.5	182.7	*187.5*	188.9	187.5	156.3
137.5°	199.7	198.4	184.8	176.6	177.3	192.3	192.9	*195.0*	192.9	182.1	151.5
140°	195.7	190.9	181.4	178.0	178.7	194.3	200.4	*201.8*	199.7	178.7	142.7
142.5°	188.9	188.9	191.6	195.7	201.8	274.5	255.4	*273.1*	273.8	252.0	146.7
145°	271.1	273.8	265.6	256.8	278.5	330.2	310.5	*329.5*	342.4	318.6	202.4
147.5°	244.6	248.6	243.9	236.4	264.9	265.6	253.4	*255.4*	258.8	264.3	204.5
150°	173.2	168.5	176.0	170.5	199.1	197.7	180.7	*184.8*	192.3	192.9	163.0
152.5°	128.4	126.4	125.0	124.3	143.3	131.8	125.7	*123.6*	125.0	124.3	116.8
155°	113.5	113.5	112.8	116.2	126.4	118.2	112.1	*112.8*	109.4	107.3	103.3
157.5°	88.3	86.3	88.3	94.4	98.5	91.0	89.0	*87.6*	87.0	83.6	84.9
160°	72.7	72.7	74.1	78.8	81.5	76.1	72.0	*70.7*	70.7	69.3	74.1
162.5°	61.8	61.8	63.2	64.5	65.9	63.2	61.8	*61.8*	61.1	61.1	65.9
165°	51.6	51.6	52.3	55.0	55.7	54.3	53.7	*54.3*	54.3	57.1	61.1
167.5°	47.6	47.6	48.2	49.6	50.3	49.6	51.6	*53.7*	55.7	58.4	59.8
170°	45.5	45.5	46.2	46.9	48.2	49.6	53.7	*55.0*	55.7	55.0	55.0
172.5°	46.9	46.9	46.9	48.2	49.6	53.0	56.4	*56.4*	55.0	53.7	53.7
175°	47.6	46.9	47.6	48.9	51.0	53.0	54.3	*55.7*	55.7	55.0	55.0
177.5°	46.9	46.9	47.6	48.2	48.2	48.2	48.9	*49.6*	49.6	50.3	51.0
180°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	*46.2*	46.2	46.2	46.2

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

Scaled Data Report

REPORT NUMBER: P1046599
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	317.9	317.9	317.9	317.9	317.9	317.9	317.9	317.9	317.9	317.9	317.9
2.5°	355.3	335.6	248.6	165.1	202.4	295.5	344.4	322.7	240.5	138.6	117.5
5°	145.4	163.0	190.2	182.1	163.7	134.5	101.2	100.5	139.3	169.2	171.9
7.5°	139.9	128.4	121.6	134.5	125.7	87.0	73.4	61.1	65.2	95.8	91.7
10°	172.6	168.5	156.9	128.4	94.4	78.1	73.4	74.7	80.2	72.0	71.3
12.5°	192.3	182.1	156.9	148.8	126.4	89.7	74.1	68.6	73.4	91.7	99.2
15°	210.6	195.7	164.4	137.9	113.5	93.1	79.5	69.3	61.8	53.7	53.0
17.5°	226.9	207.9	173.2	143.3	112.8	93.1	76.8	60.5	52.3	49.6	49.6
20°	246.6	228.9	184.8	149.5	113.5	91.0	74.1	59.8	52.3	49.6	49.6
22.5°	273.1	243.9	197.0	152.2	114.8	90.4	72.7	61.1	54.3	50.3	50.3
25°	280.6	258.2	205.2	161.0	120.2	93.8	76.1	63.2	55.7	52.3	51.6
27.5°	286.0	269.0	220.8	168.5	126.4	100.5	81.5	65.9	57.1	53.7	53.0
30°	307.1	292.1	237.8	179.4	134.5	107.3	86.3	70.0	59.8	54.3	53.0
32.5°	351.9	330.8	262.9	190.2	144.7	114.8	92.4	74.1	62.5	55.7	54.3
35°	437.5	420.5	329.5	212.6	155.6	124.3	99.9	79.5	65.9	57.7	57.1
37.5°	536.7	510.2	400.1	247.3	163.0	132.5	107.3	84.9	69.3	61.1	59.8
40°	553.7	478.3	354.6	225.5	164.4	136.6	114.1	91.0	73.4	63.9	61.8
42.5°	694.3	587.0	411.0	233.0	167.8	136.6	115.5	95.1	77.4	65.9	64.5
45°	734.4	584.9	409.0	260.2	184.1	140.6	116.2	97.1	80.8	69.3	67.3
47.5°	936.2	717.4	415.1	276.5	201.1	154.9	120.9	98.5	81.5	71.3	70.7
50°	1338.3	959.3	499.3	333.6	241.2	180.7	135.9	103.3	82.9	73.4	72.7
52.5°	1652.9	1139.3	536.0	399.5	307.1	229.6	162.4	115.5	85.6	74.1	72.7
55°	1964.7	1358.7	603.9	471.5	365.5	276.5	201.8	135.2	92.4	75.4	74.1
57.5°	2440.3	1631.1	688.2	542.1	433.4	320.7	225.5	152.9	100.5	76.8	74.7
60°	2729.0	1727.6	697.0	578.1	472.2	351.9	233.7	159.6	110.7	82.2	78.8
62.5°	2988.5	1814.6	703.1	594.4	478.9	355.3	234.4	154.2	112.8	90.4	86.3
65°	*3055.8*	*1743.9*	*709.2*	*599.9*	*466.7*	*335.6*	*225.5*	*148.8*	*107.3*	*97.8*	*97.1*
67.5°	2903.6	1563.9	667.1	579.5	434.1	301.6	203.1	141.3	104.6	95.1	97.1
70°	2262.3	1241.9	611.4	534.0	375.0	254.8	180.7	131.8	103.3	90.4	88.3
72.5°	1782.6	1056.4	617.5	508.8	316.6	225.5	159.6	120.2	97.8	88.3	87.0
75°	1388.6	885.2	594.4	438.2	256.8	192.3	139.9	107.3	91.0	84.9	84.2
77.5°	1018.4	702.5	490.5	337.6	212.0	160.3	122.3	98.5	86.3	80.8	80.2
80°	667.8	496.6	341.7	269.7	182.7	144.7	111.4	92.4	82.9	78.1	77.4
82.5°	567.9	440.9	303.7	248.0	169.2	139.3	109.4	90.4	82.2	76.8	76.1
85°	547.6	451.8	310.5	256.8	161.0	133.2	106.0	89.0	80.2	75.4	74.7
87.5°	514.3	409.0	300.3	230.3	148.8	121.6	99.2	85.6	76.8	72.7	71.3
90°	457.9	349.9	258.2	197.7	141.3	114.1	93.8	81.5	74.7	70.7	69.3
92.5°	369.6	265.6	203.1	174.6	137.9	113.5	93.1	81.5	74.7	70.7	69.3
95°	310.5	227.6	182.1	159.6	128.4	107.3	89.0	78.8	72.7	68.6	68.6
97.5°	245.9	190.2	162.4	143.3	115.5	97.8	84.2	75.4	70.0	65.9	65.9
100°	218.1	176.6	154.2	134.5	109.4	92.4	82.2	73.4	68.6	63.9	63.9
102.5°	207.2	171.2	152.2	127.7	104.6	89.0	78.8	70.7	66.6	61.8	61.8
105°	200.4	169.2	150.8	124.3	99.9	84.9	75.4	67.3	63.9	60.5	59.8
107.5°	193.6	166.4	152.9	122.3	95.8	82.2	75.4	66.6	62.5	59.8	59.8
110°	190.2	167.8	152.2	120.2	94.4	81.5	74.7	67.3	63.9	61.1	60.5

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

Scaled Data Report

REPORT NUMBER: P1046599
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	181.4	160.3	145.4	114.1	92.4	79.5	72.0	66.6	61.8	59.1	58.4
115°	172.6	147.4	133.2	108.7	87.6	76.8	70.0	64.5	59.8	57.7	57.7
117.5°	176.0	144.0	122.3	106.7	86.3	74.7	68.6	63.2	59.1	57.7	57.1
120°	173.9	151.5	137.2	114.1	85.6	72.7	67.3	61.8	58.4	57.7	57.7
122.5°	166.4	163.7	150.8	116.2	82.9	73.4	68.6	63.9	60.5	58.4	58.4
125°	160.3	159.0	140.6	104.6	84.9	76.1	72.0	67.3	65.2	63.2	62.5
127.5°	148.1	133.2	116.8	100.5	86.3	77.4	73.4	70.7	68.6	65.2	64.5
130°	148.8	136.6	120.2	101.2	82.9	76.1	74.1	71.3	67.9	62.5	61.8
132.5°	161.7	148.8	119.6	93.8	79.5	76.1	74.7	71.3	63.9	57.7	57.1
135°	134.5	125.7	106.0	89.7	80.8	78.8	78.1	70.7	59.8	55.7	55.0
137.5°	131.1	118.2	101.9	90.4	84.2	80.2	77.4	67.9	55.7	51.6	50.3
140°	123.6	111.4	99.9	91.7	81.5	67.9	61.8	57.1	51.6	48.2	47.6
142.5°	123.6	112.1	94.4	80.8	70.7	63.2	59.8	55.7	49.6	44.8	43.5
145°	146.1	132.5	114.1	102.6	91.7	80.2	68.6	56.4	46.2	40.1	39.4
147.5°	165.8	149.5	135.2	116.2	98.5	79.5	63.2	49.6	42.1	39.4	39.4
150°	135.9	120.9	113.5	97.1	81.5	65.2	53.7	46.2	42.1	40.8	40.8
152.5°	101.9	85.6	80.2	71.3	61.8	53.7	48.2	44.2	42.8	42.1	42.1
155°	95.1	81.5	74.7	66.6	57.1	50.3	46.9	44.8	43.5	42.8	42.8
157.5°	82.9	75.4	66.6	60.5	53.7	48.9	46.9	45.5	44.2	43.5	43.5
160°	74.1	68.6	60.5	55.7	51.0	48.9	48.9	48.2	46.2	45.5	45.5
162.5°	66.6	64.5	57.1	53.0	51.0	51.6	55.0	54.3	51.0	48.2	47.6
165°	61.8	59.8	54.3	52.3	51.0	53.7	60.5	59.1	53.7	50.3	50.3
167.5°	59.1	57.7	53.7	51.6	52.3	57.7	63.9	64.5	59.8	55.0	54.3
170°	54.3	54.3	53.7	54.3	54.3	57.1	60.5	62.5	62.5	63.9	63.2
172.5°	53.7	54.3	56.4	56.4	55.7	56.4	59.1	62.5	64.5	66.6	67.3
175°	55.0	55.7	57.1	57.7	57.7	59.1	63.2	65.9	67.3	66.6	66.6
177.5°	51.0	51.6	52.3	55.0	56.4	57.7	61.8	63.2	64.5	65.9	65.9
180°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2

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

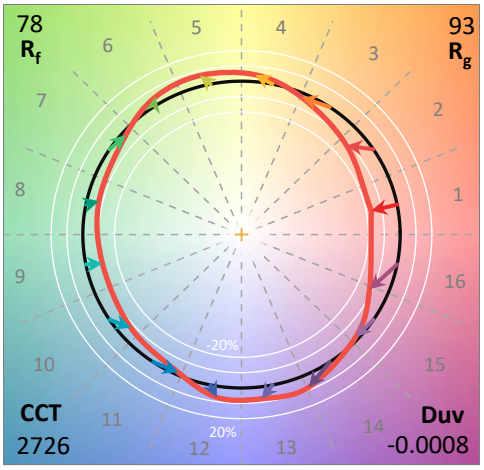
Test Information

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

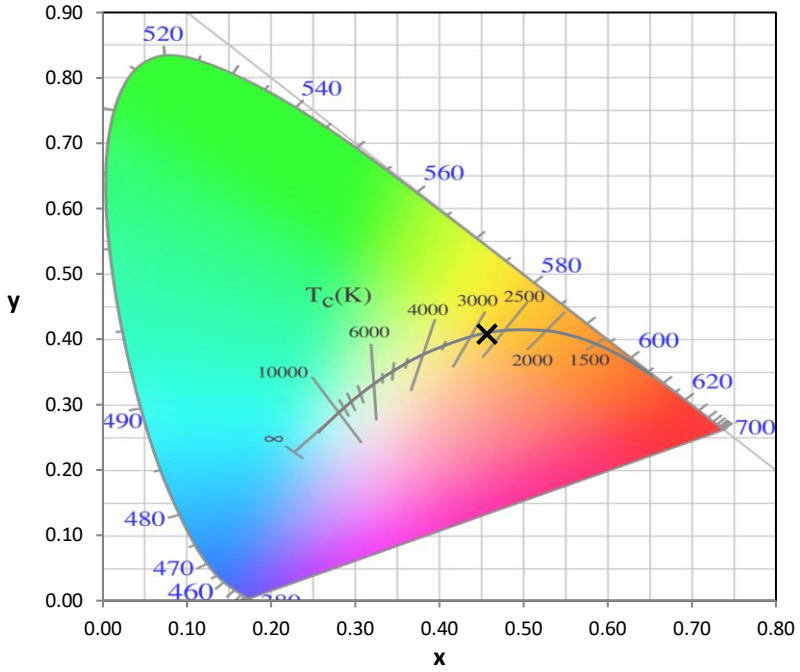
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

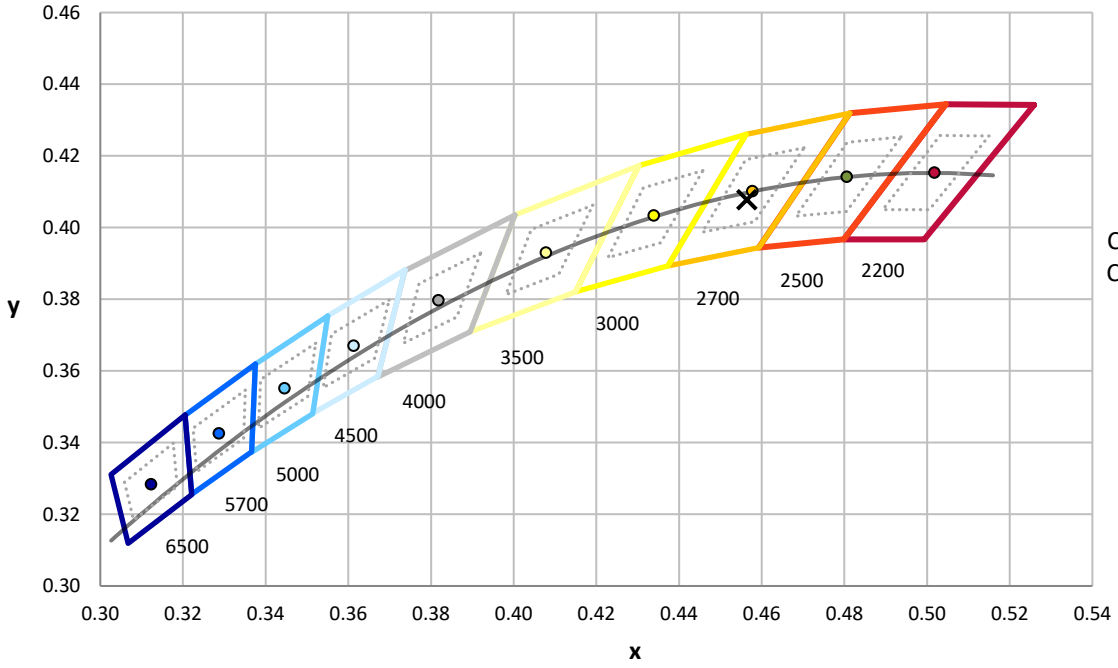
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

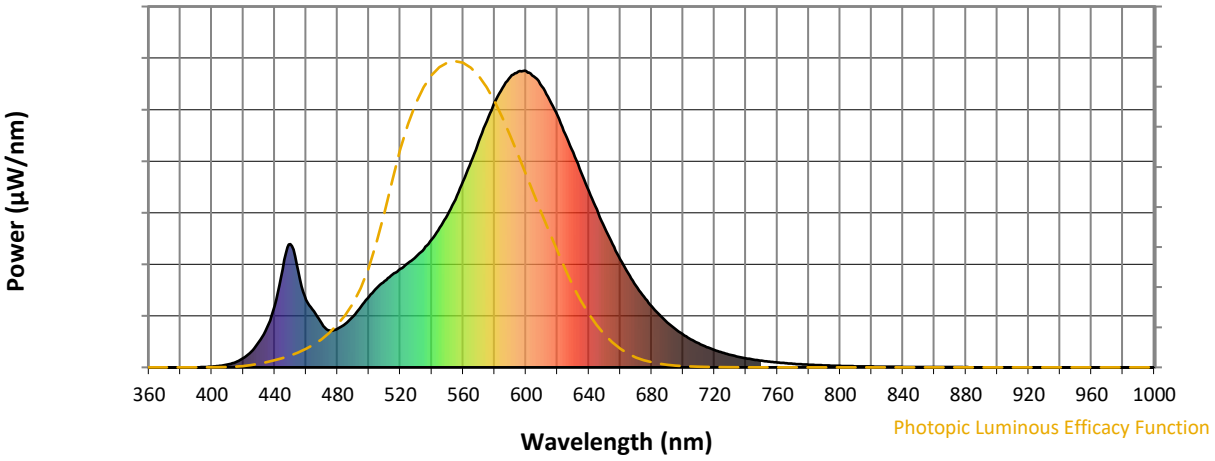


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

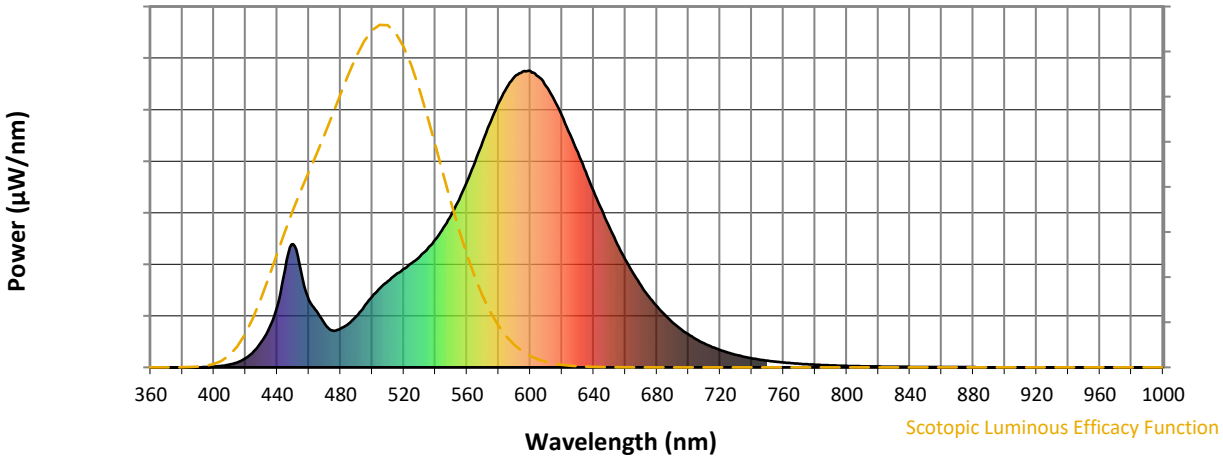


Photopic Lumens: NR

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

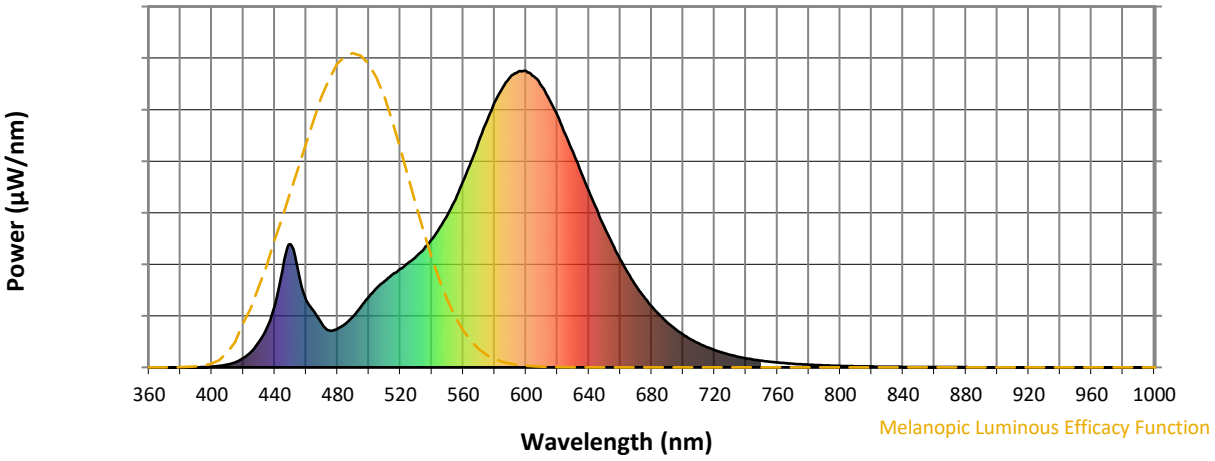


Scotopic Lumens: NR **S/P: 1.16**

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			

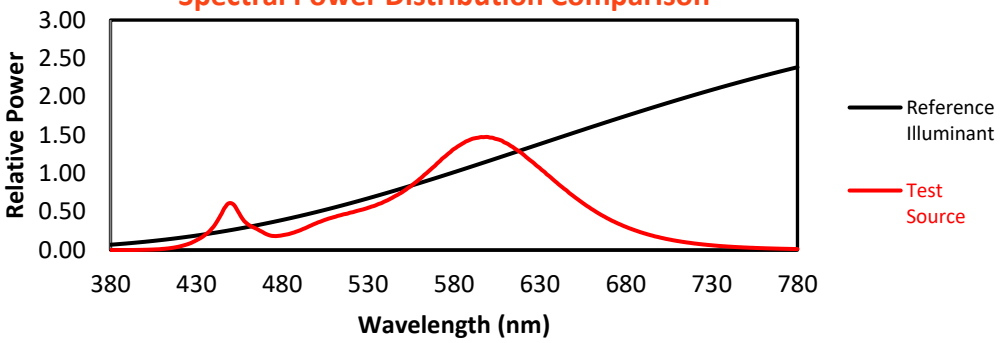
REPORT NUMBER: SP1-2501-332-3

TM-30-18

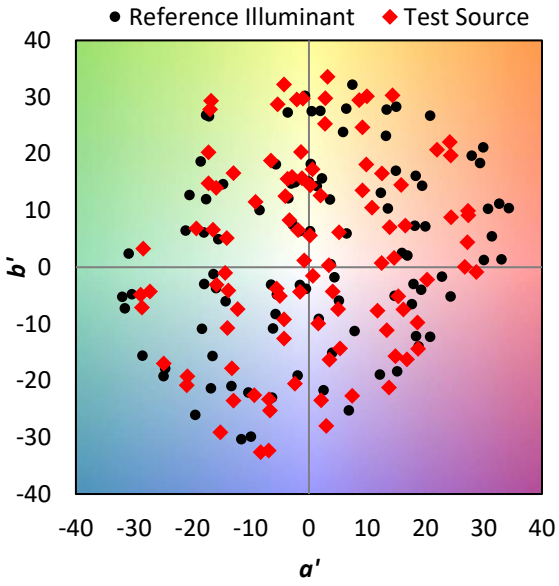
Summary

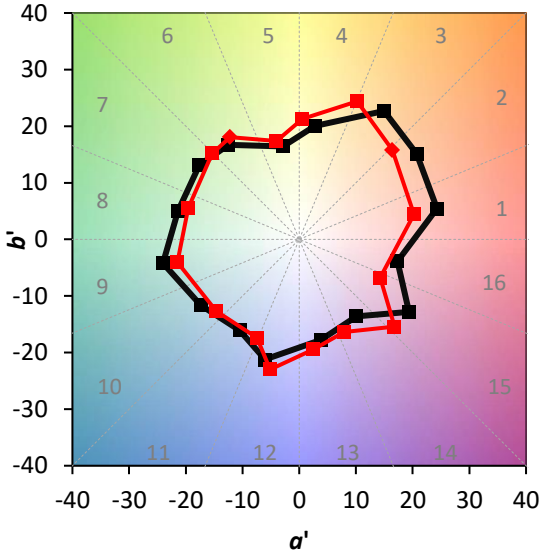
R_f = 77.8
R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

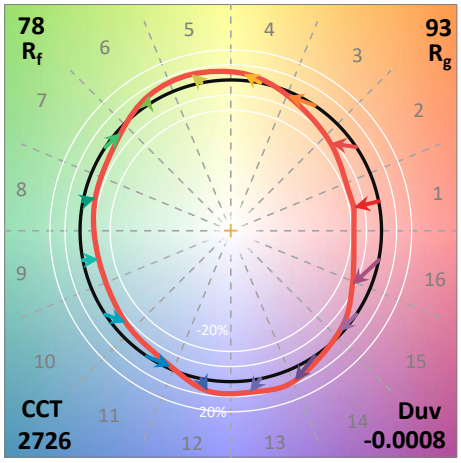
Spectral Power Distribution Comparison

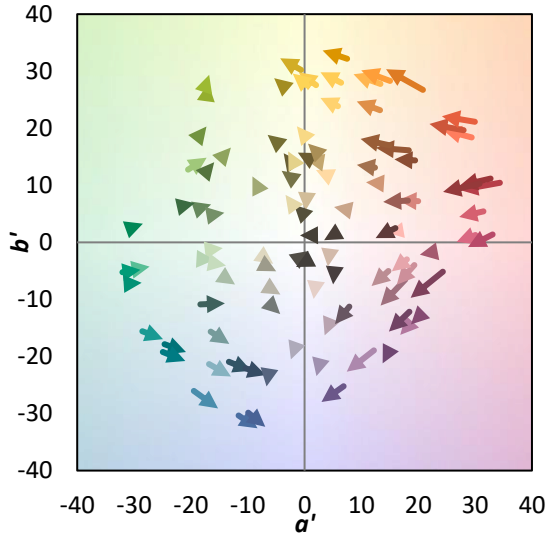


Color Vector Graphics







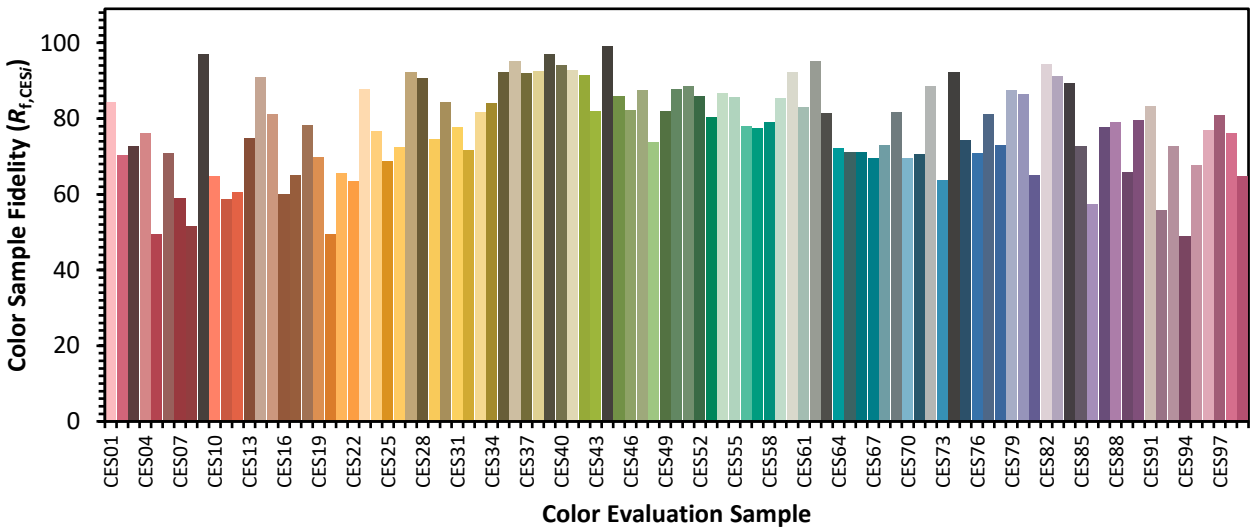


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

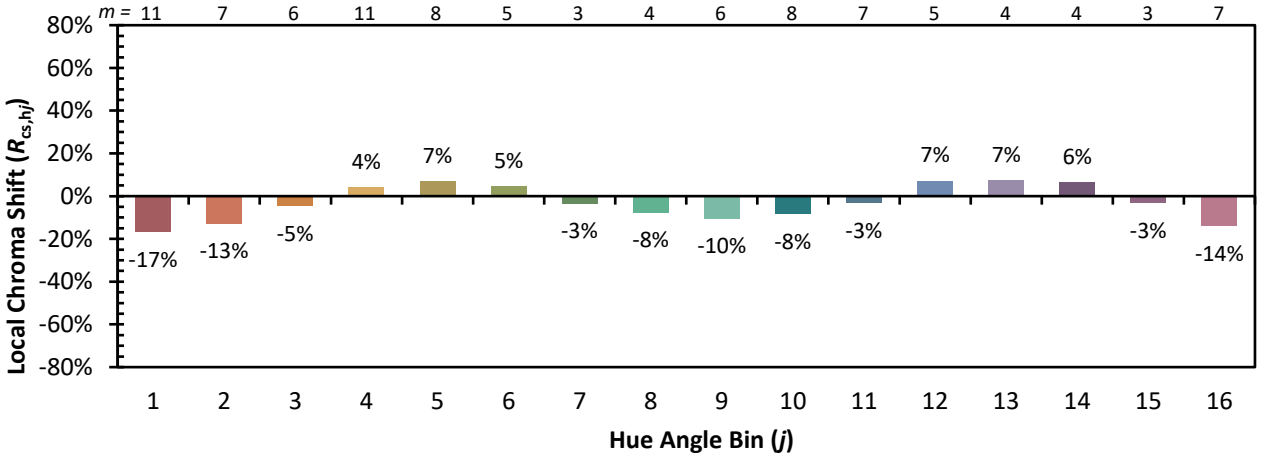
CES01 = 86	CES26 = 72	CES51 = 88	CES76 = 71
CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82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

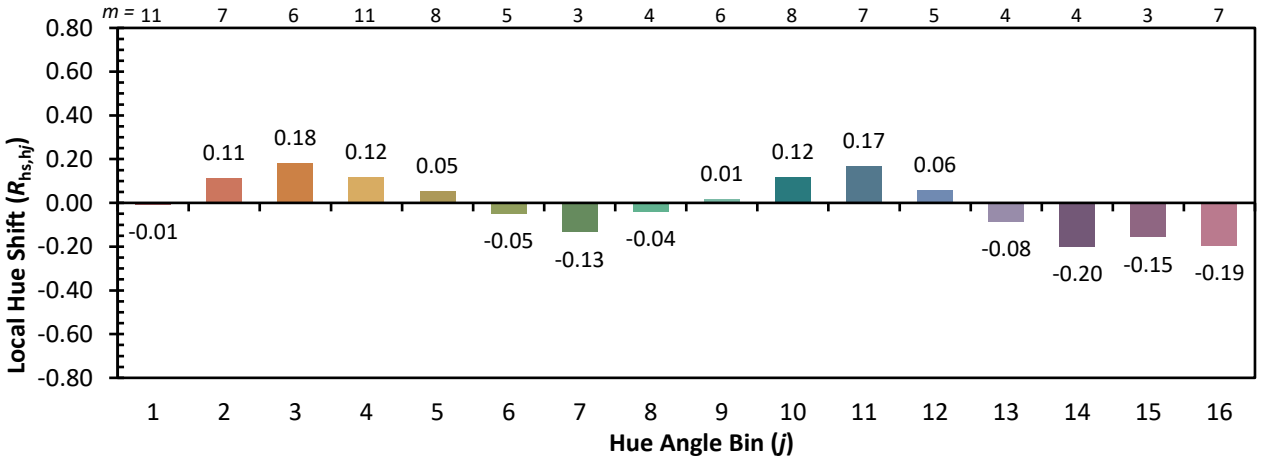


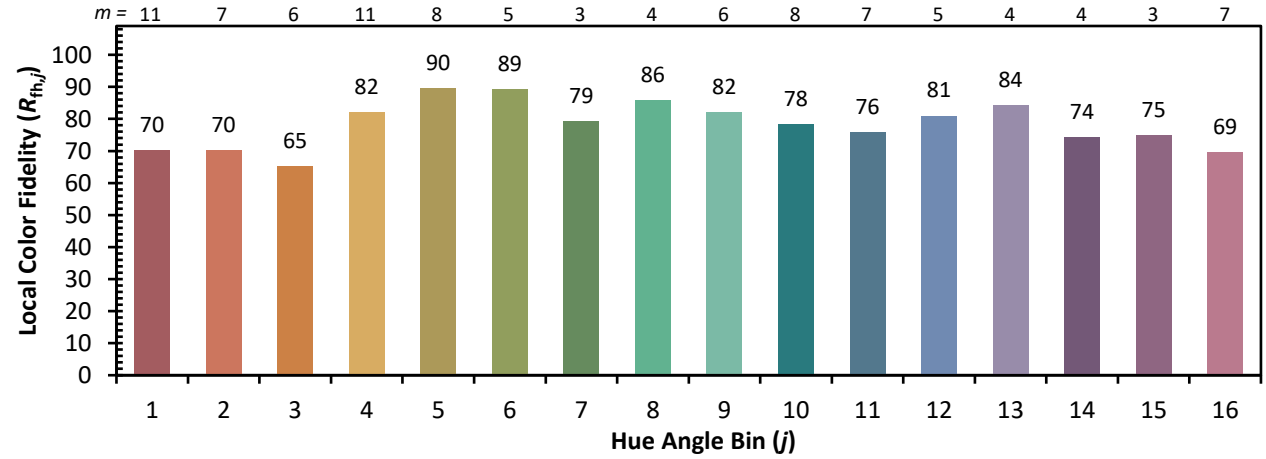
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



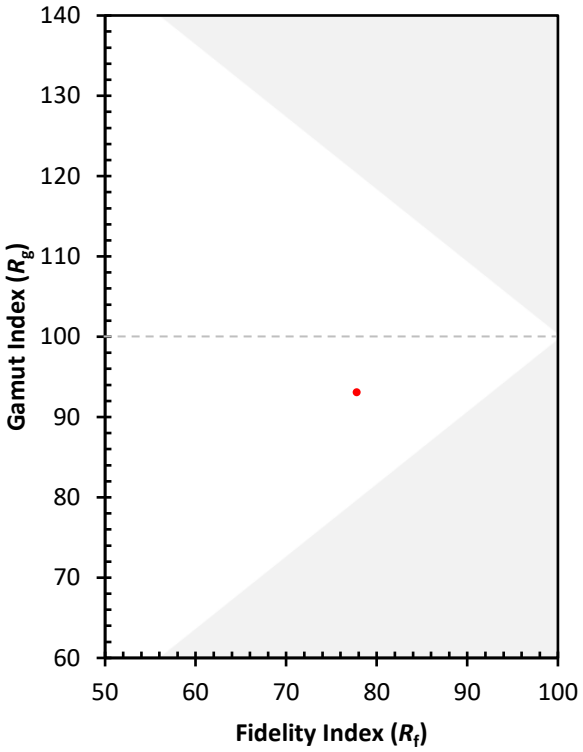


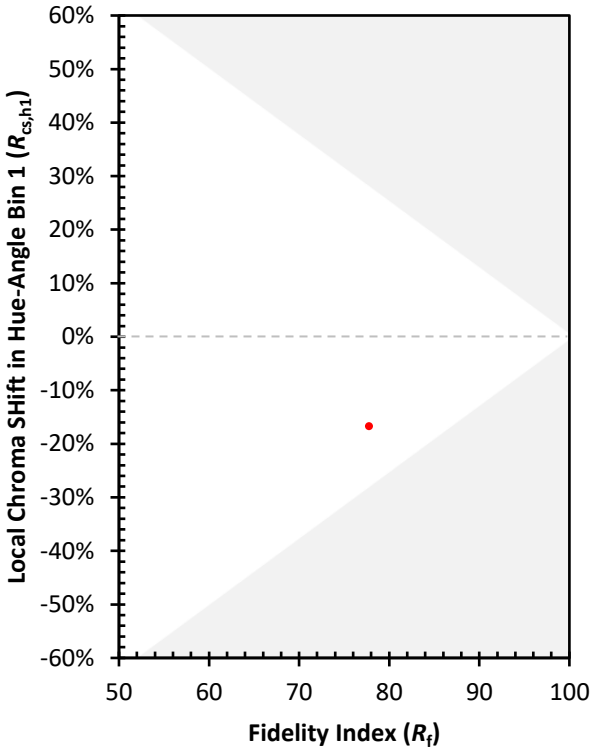


REPORT NUMBER: SP1-2501-332-3

TM-30-18

Measure Comparisons





(END OF REPORT)