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: P1046600

Luminaire Tested: **FFX-CLB-60-727-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:	P1046600
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-727-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:	7944.3 lumens
Efficiency:	N/A
Efficacy:	131.1 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):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

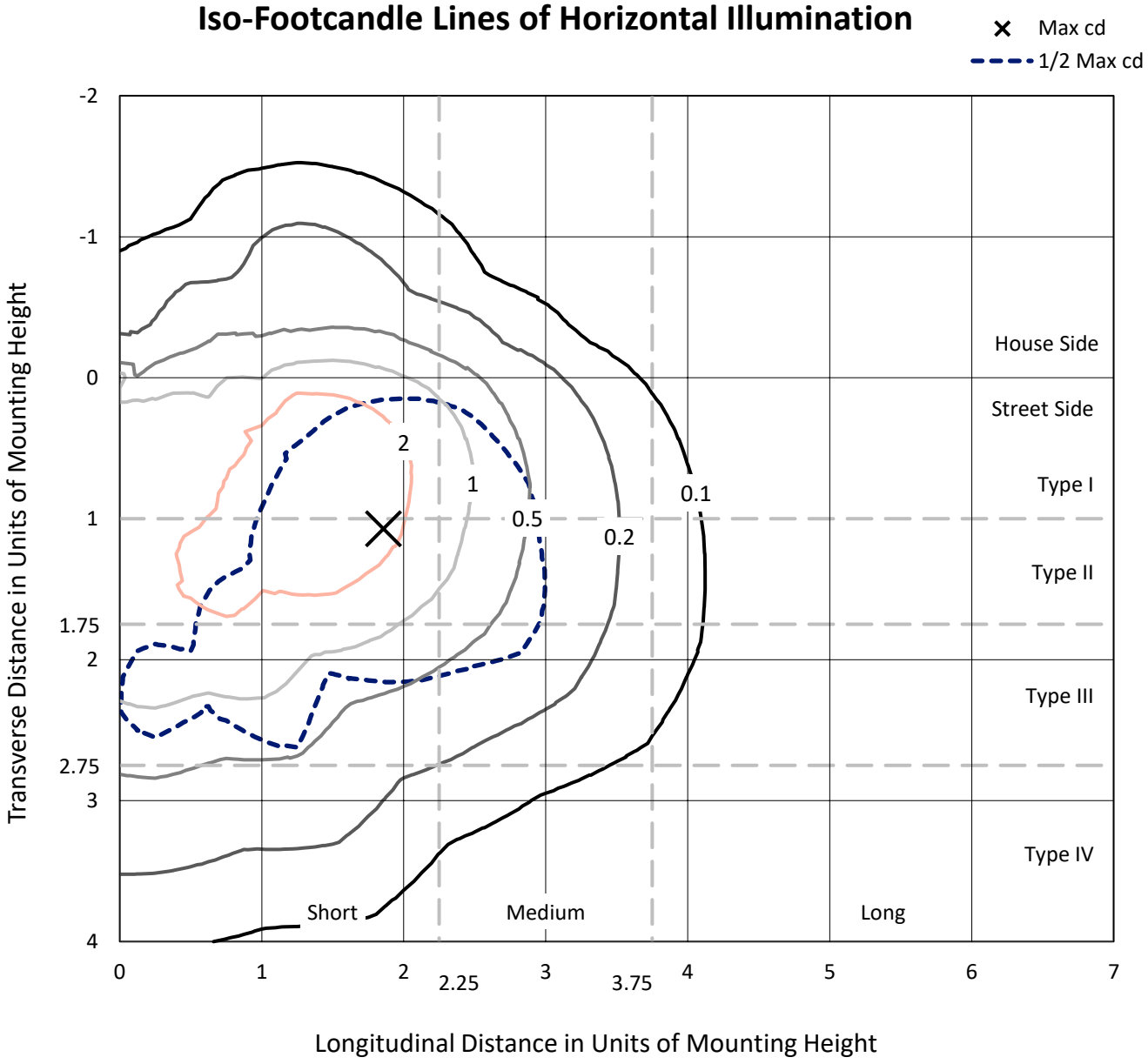


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046600
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



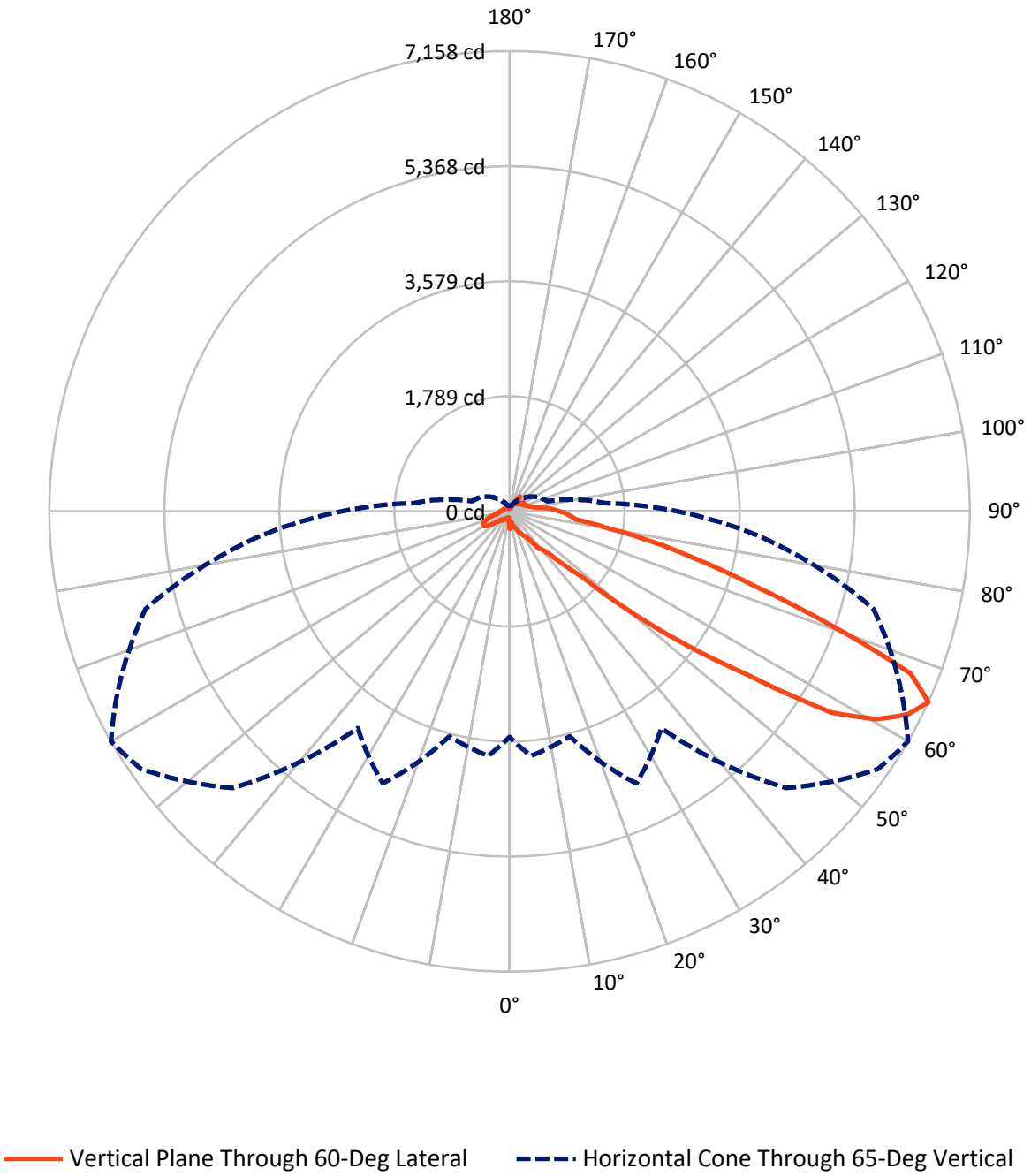
Based on 15 foot mounting height. Maximum calculated value = 4 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046600
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T3-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

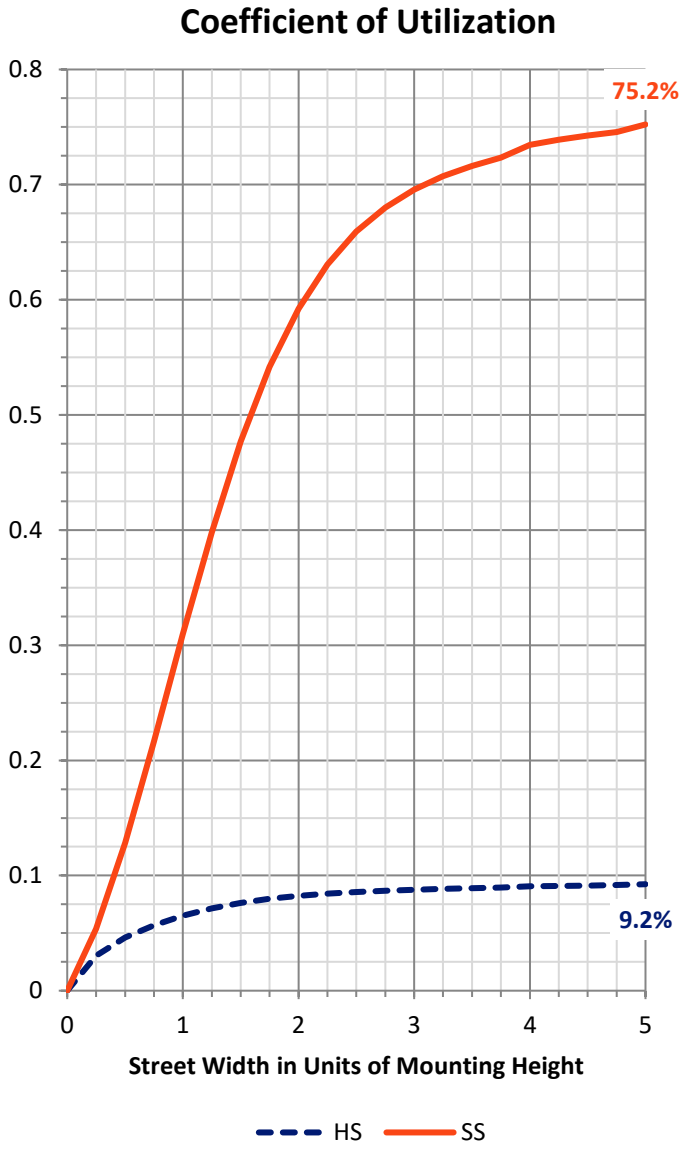
REPORT NUMBER: P1046600
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.3	248.6	1018.9
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	6190.6	734.8	6925.4
	% Fixture	77.9	9.2	87.2
Total	Lumens	6960.8	983.4	7944.3
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.6	0.2
10°-20°	50.8	0.6
20°-30°	108.7	1.4
30°-40°	223.1	2.8
40°-50°	522.8	6.6
50°-60°	1635.3	20.6
60°-70°	2560.5	32.2
70°-80°	1354.5	17.1
80°-90°	490.5	6.2
90°-100°	295.8	3.7
100°-110°	185.3	2.3
110°-120°	149.7	1.9
120°-130°	124.9	1.6
130°-140°	91.0	1.1
140°-150°	83.6	1.1
150°-160°	34.8	0.4
160°-170°	13.9	0.2
170°-180°	4.5	0.1
0°-90°	6960.8	87.6
0°-180°	7944.3	100.0



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

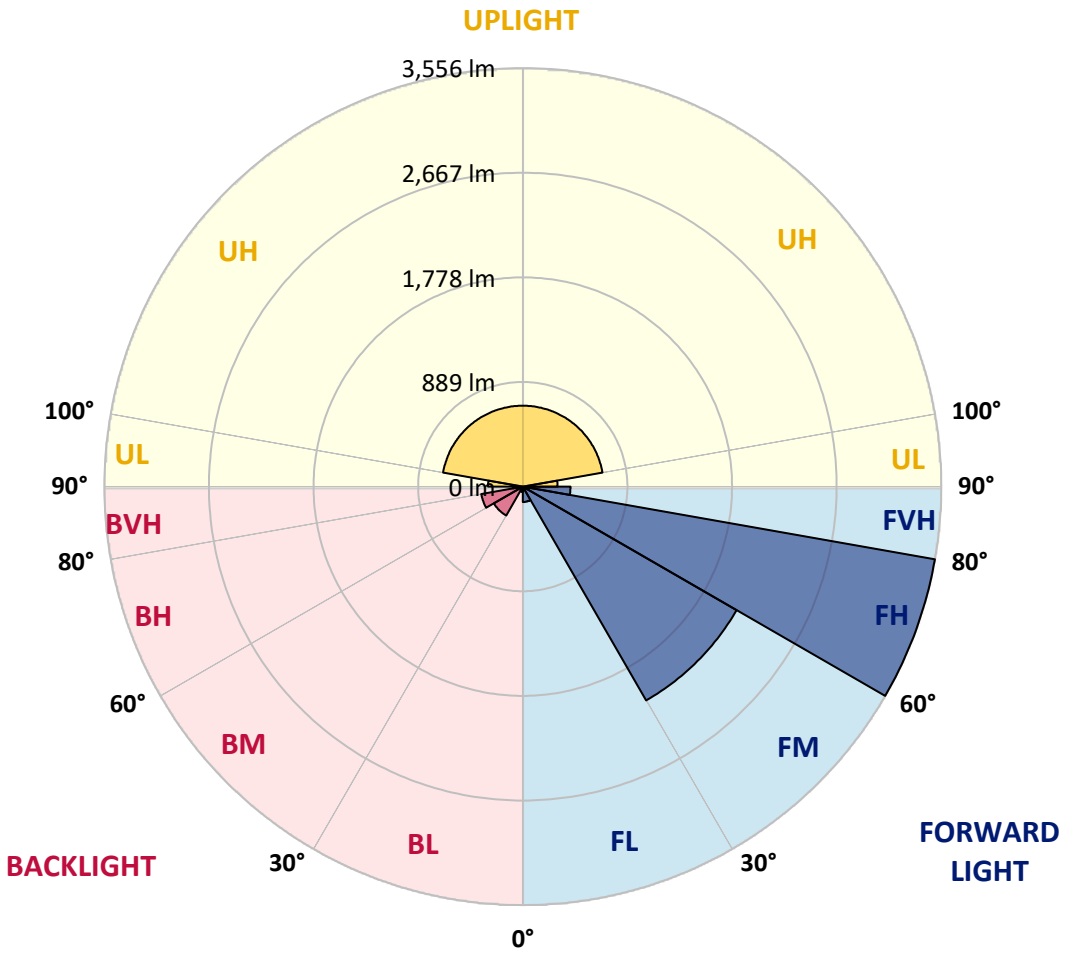
Scaled Data Report

REPORT NUMBER: P1046600
CATALOG NUMBER: FFX-CLB-60-727-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°)	130.9	1.6			
FM	(30°-60°)	2097.9	26.4			
FH	(60°-80°)	3556.5	44.8			G2/5000
FVH	(80°-90°)	405.3	5.1			G3/500
BL	(0°-30°)	43.2	0.5	B0/110		
BM	(30°-60°)	283.3	3.6	B1/1000		
BH	(60°-80°)	358.6	4.5	B1/500		G1/500
BVH	(80°-90°)	85.2	1.1			G1/100
UL	(90°-100°)	295.8	3.7		U3/500	
UH	(100°-180°)	687.7	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: P1046600
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9
2.5°	148.7	154.6	188.3	223.1	233.0	211.5	183.0	186.5	202.2	277.2	310.3
5°	174.3	176.1	173.1	177.2	201.6	232.4	214.4	193.5	165.6	119.7	118.5
7.5°	200.5	200.5	199.3	184.8	167.9	162.7	178.4	181.3	178.4	148.7	128.4
10°	218.5	218.5	217.9	219.0	220.2	214.4	188.8	179.0	168.5	155.7	149.9
12.5°	264.9	266.1	273.7	269.6	254.5	238.8	241.7	238.8	223.1	195.8	173.1
15°	324.2	326.5	327.7	312.6	288.2	259.1	240.5	235.9	233.0	217.3	194.6
17.5°	355.0	353.8	339.9	324.2	308.5	287.6	270.2	263.2	252.7	233.0	208.6
20°	351.5	351.5	337.6	334.1	335.3	322.5	300.4	291.7	280.1	261.5	227.8
22.5°	361.4	362.0	353.3	356.2	369.0	356.2	334.7	328.9	317.8	291.1	256.8
25°	399.2	399.2	389.3	385.2	396.3	391.6	379.4	372.4	356.8	324.2	263.8
27.5°	433.4	431.1	421.8	423.0	412.5	410.2	407.3	404.4	390.5	338.7	267.3
30°	460.2	460.2	452.0	457.3	435.2	438.7	428.2	436.4	418.3	358.5	280.6
32.5°	484.6	488.1	485.2	492.1	466.0	481.1	463.1	471.8	460.8	393.9	318.4
35°	540.9	545.0	558.4	575.8	543.8	559.5	531.1	543.3	532.2	474.1	391.0
37.5°	764.6	758.2	729.2	700.7	669.9	734.4	727.4	739.1	721.6	628.1	493.9
40°	769.3	765.8	760.0	742.0	683.9	747.8	750.7	771.6	823.9	674.0	534.0
42.5°	789.0	793.1	862.2	871.0	827.4	926.7	899.4	900.6	1079.5	798.3	689.1
45°	912.8	912.8	934.9	945.9	933.1	1218.4	1214.3	1179.5	1404.9	995.9	810.5
47.5°	1046.4	1050.5	1091.2	1200.4	1271.9	1542.0	1622.2	1538.6	1834.3	1306.7	1116.7
50°	1437.5	1445.6	1572.3	1668.1	1802.3	2257.3	2651.8	2524.6	2988.8	1993.5	1682.7
52.5°	1720.4	1821.5	1891.2	2252.1	2304.4	3003.3	3512.3	3468.7	3780.2	2759.3	2042.3
55°	2047.5	2205.0	2251.5	2811.0	2904.6	3875.5	4403.6	4480.9	4500.1	3566.9	2400.8
57.5°	2586.2	2830.2	2838.9	3430.4	3446.7	4885.3	5726.0	5896.3	5702.2	4507.0	2966.1
60°	3030.1	3315.9	3220.1	4025.4	3863.8	5702.2	6369.2	6562.1	6201.9	5310.6	3361.2
62.5°	3304.9	3580.9	3454.8	4443.7	4114.8	6052.6	6753.3	6951.4	6555.2	5737.6	3665.1
65°	3510.0	3816.2	3622.1	4666.8	4114.3	6083.9	6990.3	7157.7	6733.5	5860.2	3754.6
67.5°	3514.1	3788.9	3546.6	4587.2	3840.6	5587.2	6620.2	6726.0	6255.3	5425.1	3488.5
70°	3071.9	3269.4	3000.4	3871.4	3098.0	4240.3	5170.0	5295.5	4821.9	4170.6	2702.9
72.5°	2570.5	2647.7	2381.1	3096.3	2426.4	3209.0	3952.1	3999.2	3748.8	3124.2	2089.4
75°	2018.5	1988.9	1850.6	2308.4	1844.8	2273.6	3103.8	3058.5	2920.8	2299.1	1594.3
77.5°	1346.8	1291.6	1298.6	1583.9	1288.7	1504.3	2260.2	2261.9	2213.7	1704.7	1137.1
80°	821.6	823.3	800.7	1004.6	850.6	999.9	1557.7	1506.6	1507.8	1124.3	796.0
82.5°	642.6	653.1	624.6	724.0	669.9	795.4	1018.0	1046.4	1015.6	825.6	586.3
85°	631.0	640.3	610.7	672.2	636.8	760.0	957.5	955.2	938.9	765.8	554.3
87.5°	578.1	589.2	567.1	610.1	582.8	703.6	881.4	869.8	854.1	720.5	528.7
90°	488.1	508.4	493.3	546.7	509.0	605.4	766.4	761.7	753.6	636.8	470.6
92.5°	443.9	448.0	436.9	485.2	443.3	530.5	680.4	665.9	647.8	552.6	400.9
95°	397.4	395.7	385.2	424.1	387.0	443.9	578.1	556.0	546.7	466.6	334.7
97.5°	318.4	319.0	313.8	340.5	313.8	354.4	434.0	425.9	407.3	348.6	256.2
100°	278.9	280.6	277.2	298.1	275.4	301.6	361.4	359.7	344.5	297.5	223.7
102.5°	263.8	264.4	269.0	281.8	260.3	279.5	329.4	330.0	320.1	277.2	210.3
105°	253.3	252.7	256.2	266.7	248.1	262.0	307.9	307.9	294.0	261.5	199.3
107.5°	245.2	244.0	249.8	258.6	245.8	249.8	285.3	287.6	274.2	243.5	189.4
110°	235.9	235.3	245.2	251.6	239.4	240.0	270.8	269.0	256.8	237.1	186.5

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

Scaled Data Report

REPORT NUMBER: P1046600
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	239.4	242.9	253.9	235.9	217.9	219.0	242.9	*245.8*	237.1	216.7	177.2
115°	236.5	240.0	254.5	228.9	202.2	209.2	228.9	*231.2*	218.5	201.6	166.8
117.5°	226.0	227.2	235.9	229.5	201.6	209.8	219.6	*223.7*	214.4	201.6	168.5
120°	267.3	258.6	258.6	248.7	217.3	231.8	250.4	*253.9*	245.2	221.4	167.9
122.5°	245.8	242.9	243.5	230.7	215.0	227.2	249.3	*255.1*	247.5	223.7	167.9
125°	193.5	194.1	191.2	195.2	188.8	192.9	204.5	*213.8*	206.8	194.1	159.8
127.5°	176.1	175.5	172.0	189.4	169.7	177.8	188.8	*194.1*	187.1	172.6	144.7
130°	171.4	171.4	181.3	199.3	187.7	184.2	180.1	*185.3*	184.2	174.9	144.7
132.5°	160.4	160.9	175.5	198.7	194.1	177.8	163.3	*166.2*	171.4	173.7	152.8
135°	160.4	158.6	154.0	159.2	156.3	160.4	156.3	*160.4*	161.5	160.4	133.6
137.5°	170.8	169.7	158.0	151.1	151.6	164.4	165.0	*166.8*	165.0	155.7	129.6
140°	167.3	163.3	155.1	152.2	152.8	166.2	171.4	*172.6*	170.8	152.8	122.0
142.5°	161.5	161.5	163.8	167.3	172.6	234.7	218.5	*233.6*	234.2	215.6	125.5
145°	231.8	234.2	227.2	219.6	238.2	282.4	265.5	*281.8*	292.8	272.5	173.1
147.5°	209.2	212.7	208.6	202.2	226.6	227.2	216.7	*218.5*	221.4	226.0	174.9
150°	148.2	144.1	150.5	145.8	170.2	169.1	154.6	*158.0*	164.4	165.0	139.4
152.5°	109.8	108.1	106.9	106.3	122.6	112.7	107.5	*105.7*	106.9	106.3	99.9
155°	97.0	97.0	96.5	99.4	108.1	101.1	95.9	*96.5*	93.5	91.8	88.3
157.5°	75.5	73.8	75.5	80.8	84.2	77.9	76.1	*75.0*	74.4	71.5	72.6
160°	62.2	62.2	63.3	67.4	69.7	65.1	61.6	*60.4*	60.4	59.3	63.3
162.5°	52.9	52.9	54.0	55.2	56.4	54.0	52.9	*52.9*	52.3	52.3	56.4
165°	44.2	44.2	44.7	47.1	47.6	46.5	45.9	*46.5*	46.5	48.8	52.3
167.5°	40.7	40.7	41.3	42.4	43.0	42.4	44.2	*45.9*	47.6	50.0	51.1
170°	38.9	38.9	39.5	40.1	41.3	42.4	45.9	*47.1*	47.6	47.1	47.1
172.5°	40.1	40.1	40.1	41.3	42.4	45.3	48.2	*48.2*	47.1	45.9	45.9
175°	40.7	40.1	40.7	41.8	43.6	45.3	46.5	*47.6*	47.6	47.1	47.1
177.5°	40.1	40.1	40.7	41.3	41.3	41.3	41.8	*42.4*	42.4	43.0	43.6
180°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	*39.5*	39.5	39.5	39.5

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

Scaled Data Report

REPORT NUMBER: P1046600
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9
2.5°	303.9	287.0	212.7	141.2	173.1	252.7	294.6	276.0	205.7	118.5	100.5
5°	124.3	139.4	162.7	155.7	140.0	115.0	86.6	86.0	119.1	144.7	147.0
7.5°	119.7	109.8	104.0	115.0	107.5	74.4	62.8	52.3	55.8	81.9	78.4
10°	147.6	144.1	134.2	109.8	80.8	66.8	62.8	63.9	68.6	61.6	61.0
12.5°	164.4	155.7	134.2	127.2	108.1	76.7	63.3	58.7	62.8	78.4	84.8
15°	180.1	167.3	140.6	117.9	97.0	79.6	68.0	59.3	52.9	45.9	45.3
17.5°	194.1	177.8	148.2	122.6	96.5	79.6	65.7	51.7	44.7	42.4	42.4
20°	210.9	195.8	158.0	127.8	97.0	77.9	63.3	51.1	44.7	42.4	42.4
22.5°	233.6	208.6	168.5	130.2	98.2	77.3	62.2	52.3	46.5	43.0	43.0
25°	240.0	220.8	175.5	137.7	102.8	80.2	65.1	54.0	47.6	44.7	44.2
27.5°	244.6	230.1	188.8	144.1	108.1	86.0	69.7	56.4	48.8	45.9	45.3
30°	262.6	249.8	203.4	153.4	115.0	91.8	73.8	59.8	51.1	46.5	45.3
32.5°	301.0	283.0	224.9	162.7	123.8	98.2	79.0	63.3	53.5	47.6	46.5
35°	374.2	359.7	281.8	181.9	133.1	106.3	85.4	68.0	56.4	49.4	48.8
37.5°	459.0	436.4	342.2	211.5	139.4	113.3	91.8	72.6	59.3	52.3	51.1
40°	473.5	409.0	303.3	192.9	140.6	116.8	97.6	77.9	62.8	54.6	52.9
42.5°	593.8	502.0	351.5	199.3	143.5	116.8	98.8	81.3	66.2	56.4	55.2
45°	628.1	500.3	349.8	222.5	157.5	120.3	99.4	83.1	69.1	59.3	57.5
47.5°	800.7	613.6	355.0	236.5	172.0	132.5	103.4	84.2	69.7	61.0	60.4
50°	1144.6	820.4	427.1	285.3	206.3	154.6	116.2	88.3	70.9	62.8	62.2
52.5°	1413.6	974.4	458.4	341.6	262.6	196.4	138.9	98.8	73.2	63.3	62.2
55°	1680.3	1162.1	516.5	403.2	312.6	236.5	172.6	115.6	79.0	64.5	63.3
57.5°	2087.1	1395.0	588.6	463.7	370.7	274.2	192.9	130.7	86.0	65.7	63.9
60°	2334.0	1477.6	596.1	494.5	403.8	301.0	199.9	136.5	94.7	70.3	67.4
62.5°	2555.9	1551.9	601.4	508.4	409.6	303.9	200.5	131.9	96.5	77.3	73.8
65°	*2613.5*	*1491.5*	*606.6*	*513.0*	*399.2*	*287.0*	*192.9*	*127.2*	*91.8*	*83.7*	*83.1*
67.5°	2483.3	1337.5	570.6	495.6	371.3	258.0	173.7	120.9	89.5	81.3	83.1
70°	1934.8	1062.1	522.9	456.7	320.7	217.9	154.6	112.7	88.3	77.3	75.5
72.5°	1524.6	903.5	528.2	435.2	270.8	192.9	136.5	102.8	83.7	75.5	74.4
75°	1187.6	757.1	508.4	374.8	219.6	164.4	119.7	91.8	77.9	72.6	72.0
77.5°	871.0	600.8	419.5	288.8	181.3	137.1	104.6	84.2	73.8	69.1	68.6
80°	571.1	424.7	292.3	230.7	156.3	123.8	95.3	79.0	70.9	66.8	66.2
82.5°	485.7	377.1	259.7	212.1	144.7	119.1	93.5	77.3	70.3	65.7	65.1
85°	468.3	386.4	265.5	219.6	137.7	113.9	90.6	76.1	68.6	64.5	63.9
87.5°	439.8	349.8	256.8	197.0	127.2	104.0	84.8	73.2	65.7	62.2	61.0
90°	391.6	299.2	220.8	169.1	120.9	97.6	80.2	69.7	63.9	60.4	59.3
92.5°	316.1	227.2	173.7	149.3	117.9	97.0	79.6	69.7	63.9	60.4	59.3
95°	265.5	194.6	155.7	136.5	109.8	91.8	76.1	67.4	62.2	58.7	58.7
97.5°	210.3	162.7	138.9	122.6	98.8	83.7	72.0	64.5	59.8	56.4	56.4
100°	186.5	151.1	131.9	115.0	93.5	79.0	70.3	62.8	58.7	54.6	54.6
102.5°	177.2	146.4	130.2	109.2	89.5	76.1	67.4	60.4	56.9	52.9	52.9
105°	171.4	144.7	129.0	106.3	85.4	72.6	64.5	57.5	54.6	51.7	51.1
107.5°	165.6	142.4	130.7	104.6	81.9	70.3	64.5	56.9	53.5	51.1	51.1
110°	162.7	143.5	130.2	102.8	80.8	69.7	63.9	57.5	54.6	52.3	51.7

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

Scaled Data Report

REPORT NUMBER: P1046600
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	155.1	137.1	124.3	97.6	79.0	68.0	61.6	56.9	52.9	50.5	50.0
115°	147.6	126.1	113.9	93.0	75.0	65.7	59.8	55.2	51.1	49.4	49.4
117.5°	150.5	123.2	104.6	91.2	73.8	63.9	58.7	54.0	50.5	49.4	48.8
120°	148.7	129.6	117.4	97.6	73.2	62.2	57.5	52.9	50.0	49.4	49.4
122.5°	142.4	140.0	129.0	99.4	70.9	62.8	58.7	54.6	51.7	50.0	50.0
125°	137.1	136.0	120.3	89.5	72.6	65.1	61.6	57.5	55.8	54.0	53.5
127.5°	126.7	113.9	99.9	86.0	73.8	66.2	62.8	60.4	58.7	55.8	55.2
130°	127.2	116.8	102.8	86.6	70.9	65.1	63.3	61.0	58.1	53.5	52.9
132.5°	138.3	127.2	102.3	80.2	68.0	65.1	63.9	61.0	54.6	49.4	48.8
135°	115.0	107.5	90.6	76.7	69.1	67.4	66.8	60.4	51.1	47.6	47.1
137.5°	112.1	101.1	87.2	77.3	72.0	68.6	66.2	58.1	47.6	44.2	43.0
140°	105.7	95.3	85.4	78.4	69.7	58.1	52.9	48.8	44.2	41.3	40.7
142.5°	105.7	95.9	80.8	69.1	60.4	54.0	51.1	47.6	42.4	38.3	37.2
145°	124.9	113.3	97.6	87.7	78.4	68.6	58.7	48.2	39.5	34.3	33.7
147.5°	141.8	127.8	115.6	99.4	84.2	68.0	54.0	42.4	36.0	33.7	33.7
150°	116.2	103.4	97.0	83.1	69.7	55.8	45.9	39.5	36.0	34.9	34.9
152.5°	87.2	73.2	68.6	61.0	52.9	45.9	41.3	37.8	36.6	36.0	36.0
155°	81.3	69.7	63.9	56.9	48.8	43.0	40.1	38.3	37.2	36.6	36.6
157.5°	70.9	64.5	56.9	51.7	45.9	41.8	40.1	38.9	37.8	37.2	37.2
160°	63.3	58.7	51.7	47.6	43.6	41.8	41.8	41.3	39.5	38.9	38.9
162.5°	56.9	55.2	48.8	45.3	43.6	44.2	47.1	46.5	43.6	41.3	40.7
165°	52.9	51.1	46.5	44.7	43.6	45.9	51.7	50.5	45.9	43.0	43.0
167.5°	50.5	49.4	45.9	44.2	44.7	49.4	54.6	55.2	51.1	47.1	46.5
170°	46.5	46.5	45.9	46.5	46.5	48.8	51.7	53.5	53.5	54.6	54.0
172.5°	45.9	46.5	48.2	48.2	47.6	48.2	50.5	53.5	55.2	56.9	57.5
175°	47.1	47.6	48.8	49.4	49.4	50.5	54.0	56.4	57.5	56.9	56.9
177.5°	43.6	44.2	44.7	47.1	48.2	49.4	52.9	54.0	55.2	56.4	56.4
180°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5

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

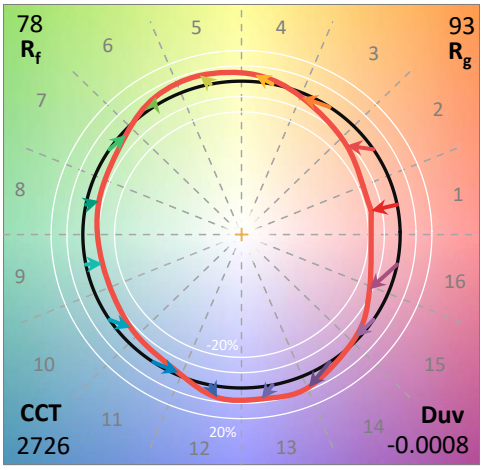
Test Information

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

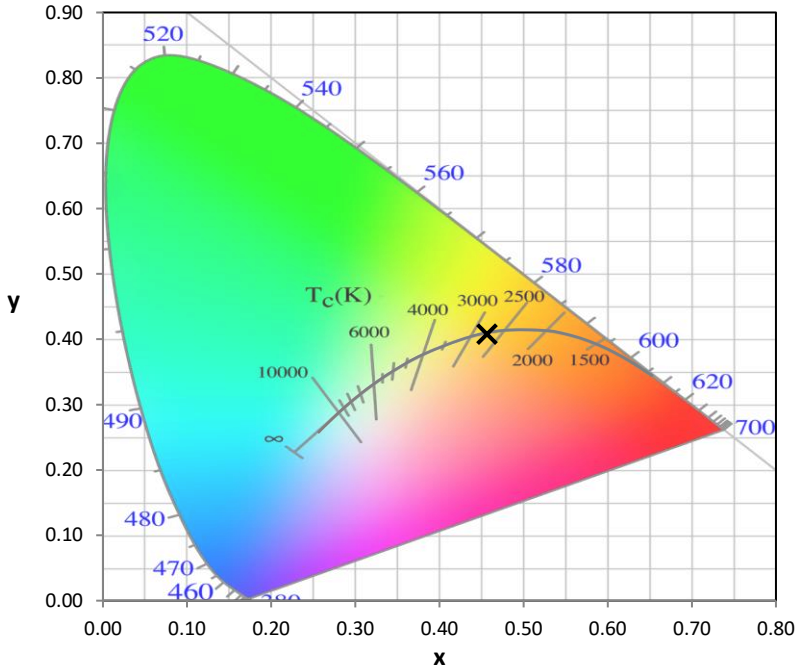
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

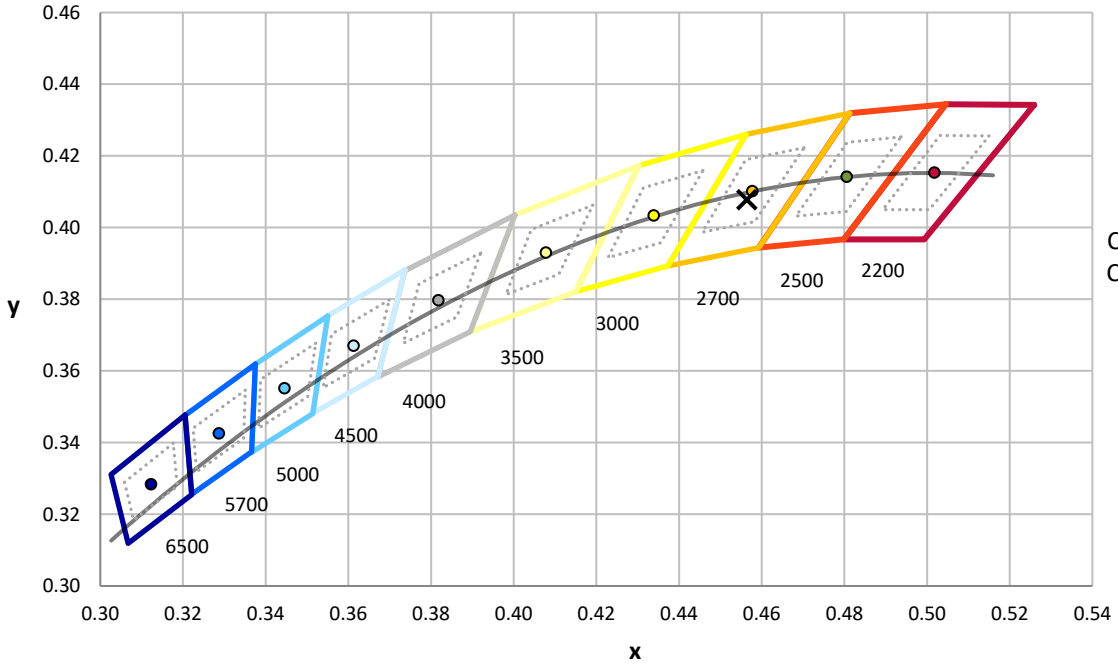
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

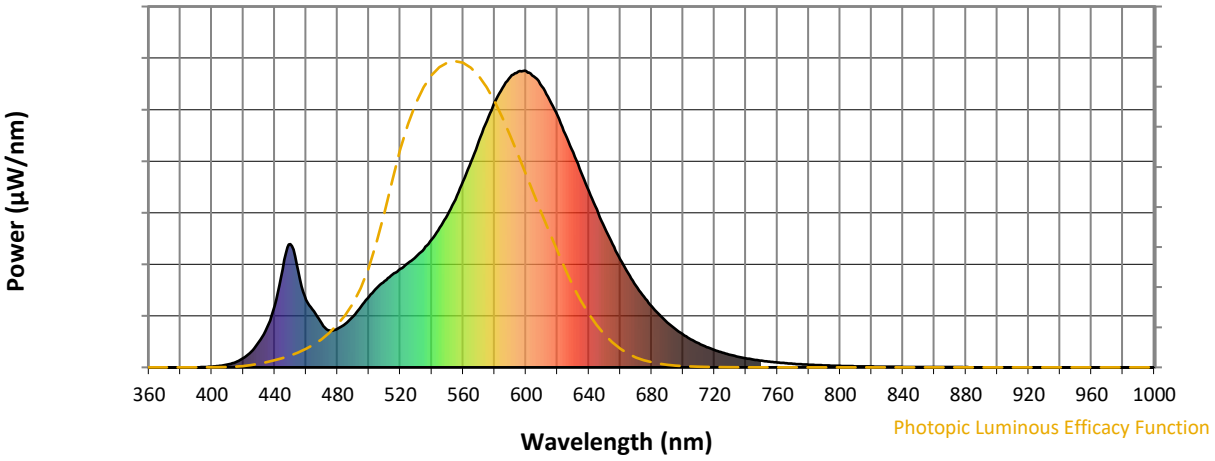


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

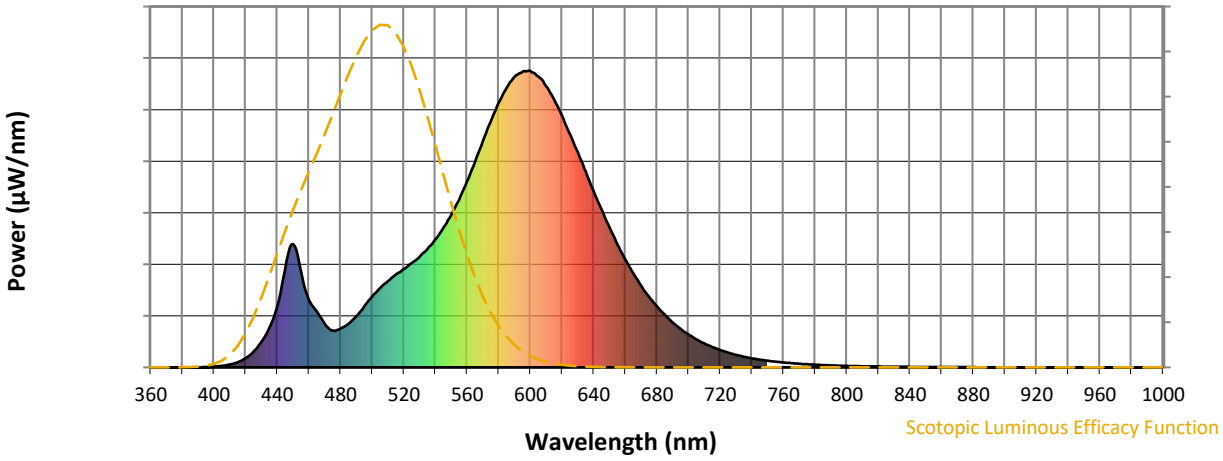


Photopic Lumens: NR

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

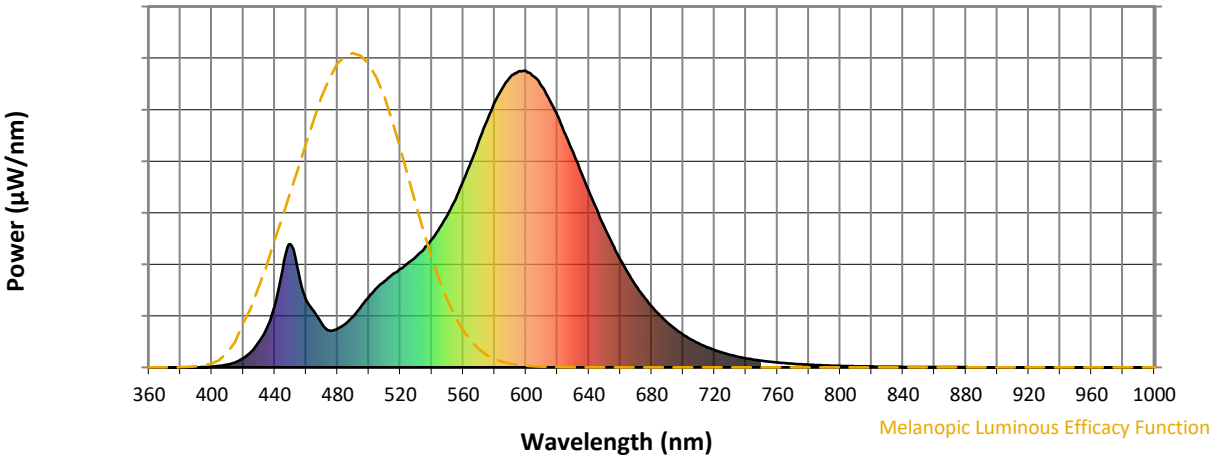


Scotopic Lumens: NR **S/P: 1.16**

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			

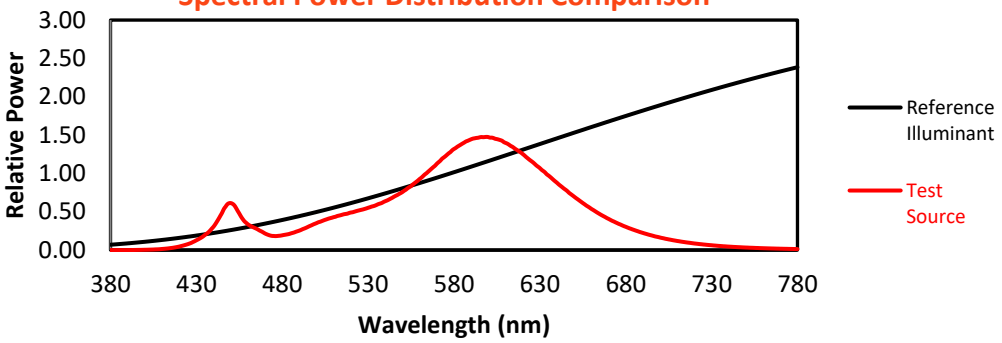
REPORT NUMBER: SP1-2501-332-3

TM-30-18

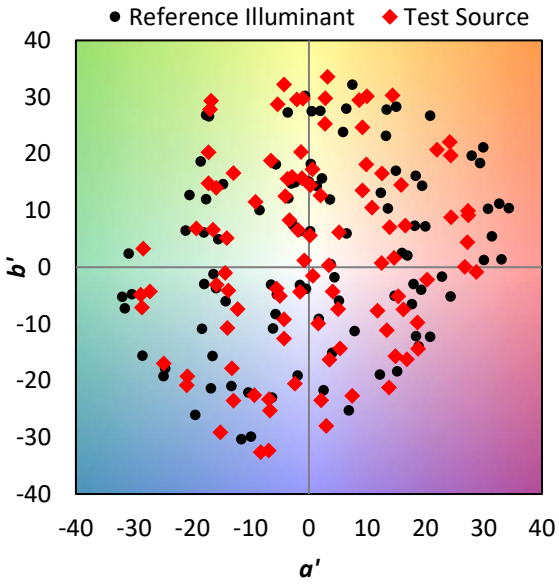
Summary

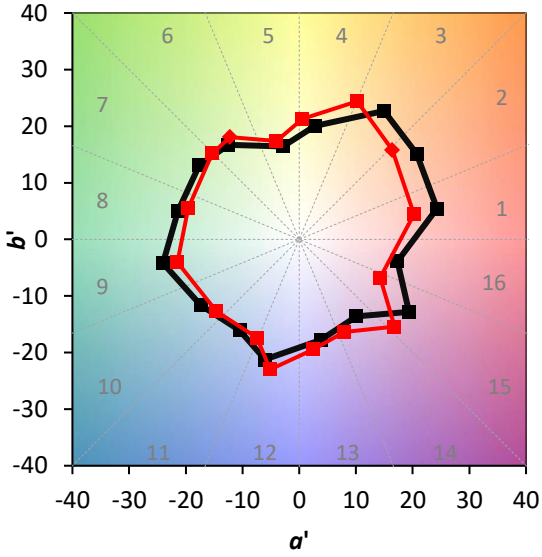
R_f = 77.8
R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

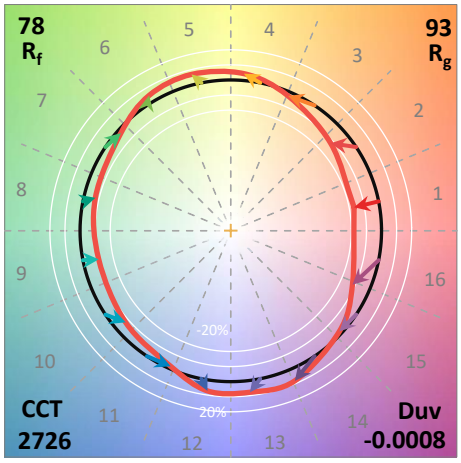
Spectral Power Distribution Comparison

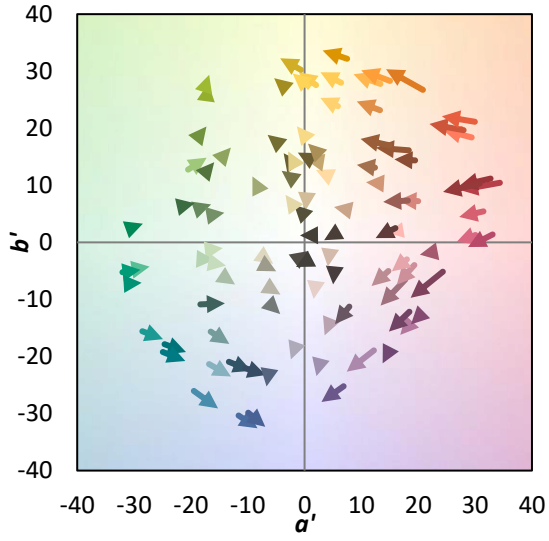


Color Vector Graphics







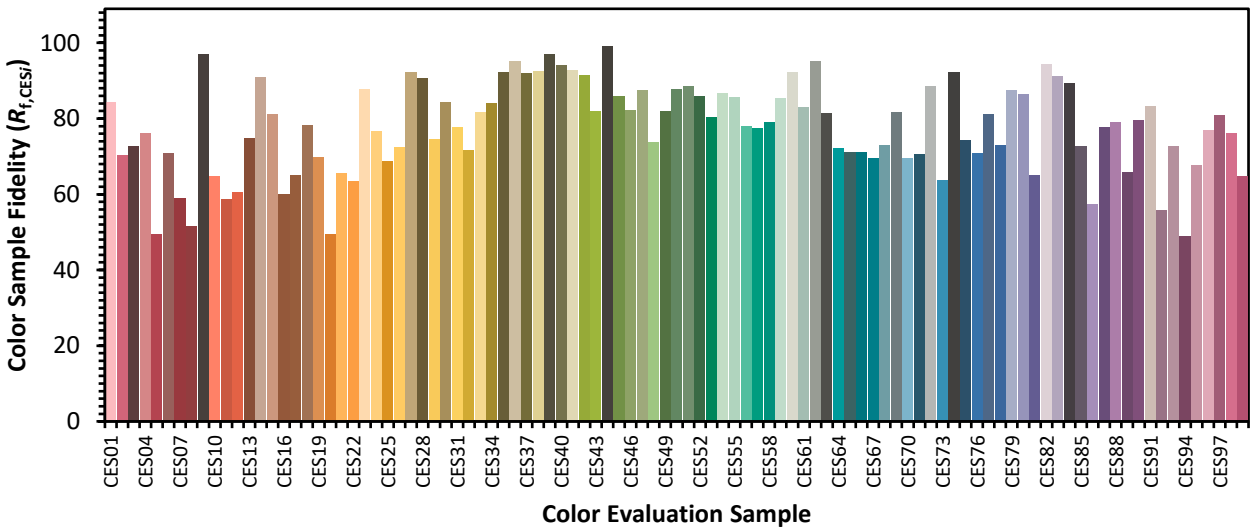


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

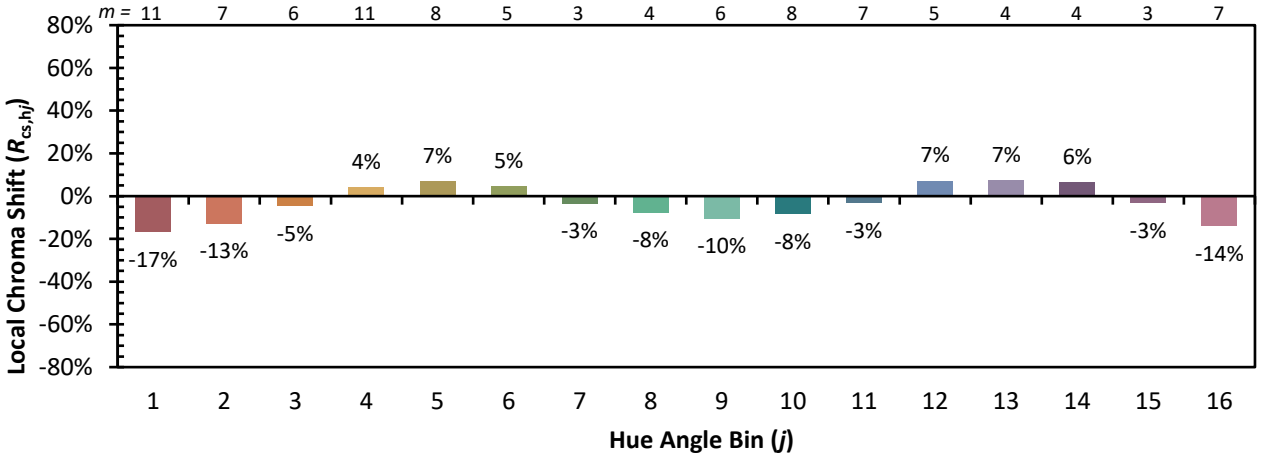
CES01 = 86	CES26 = 72	CES51 = 88	CES76 = 71
CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82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

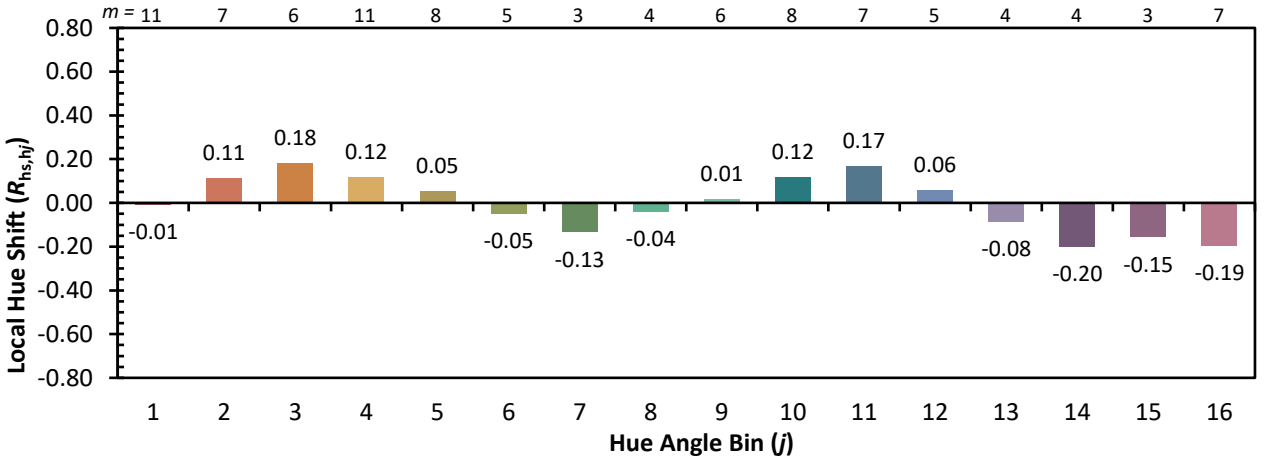


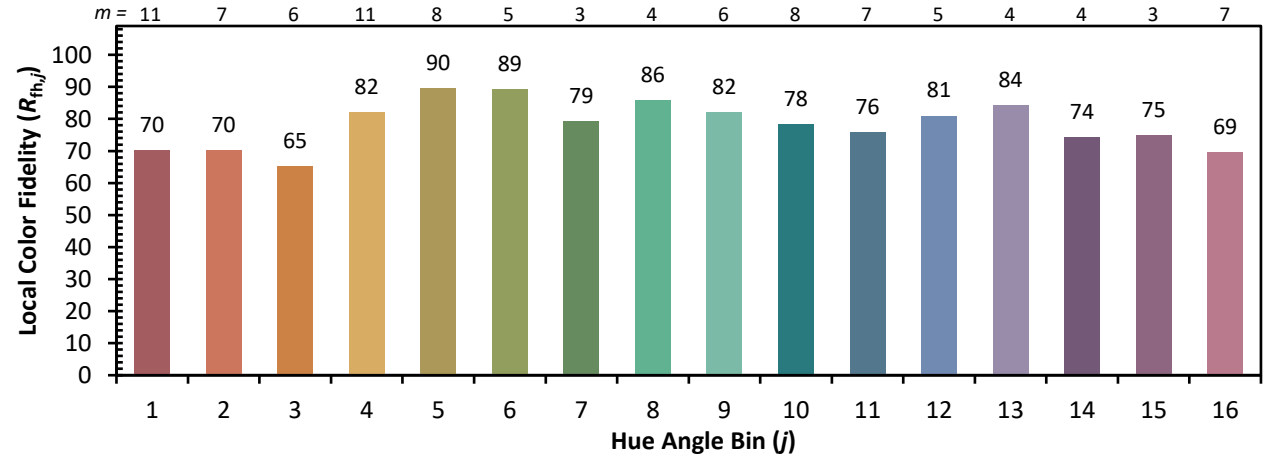
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



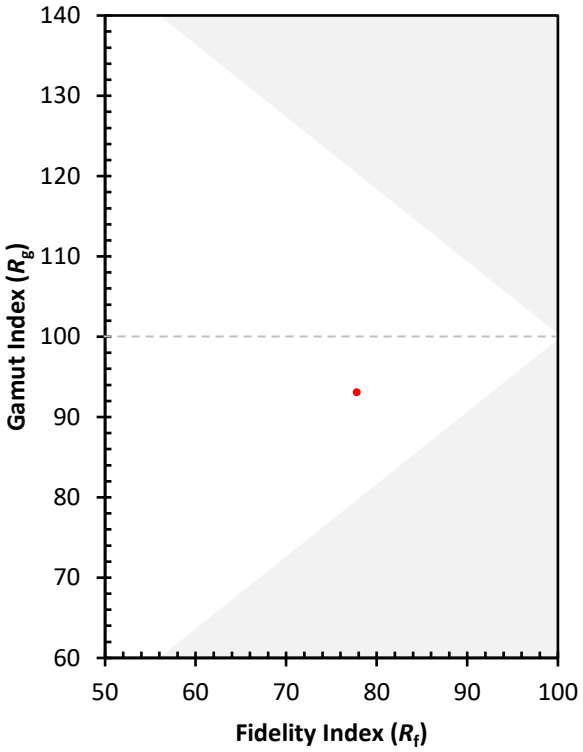


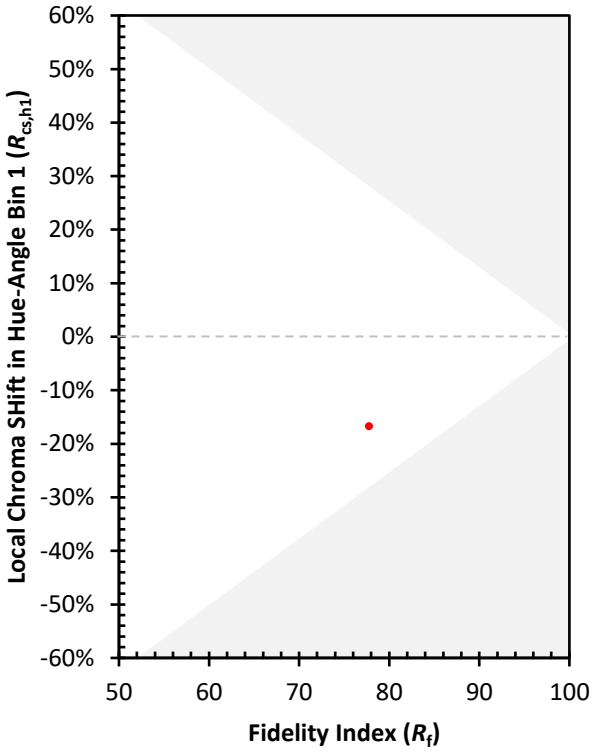


REPORT NUMBER: SP1-2501-332-3

TM-30-18

Measure Comparisons





(END OF REPORT)