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: P1045790

Luminaire Tested: **FFX-CLB-60-727-U-FR-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:	P1045790
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-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5978.2 lumens
Efficiency:	N/A
Efficacy:	98.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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

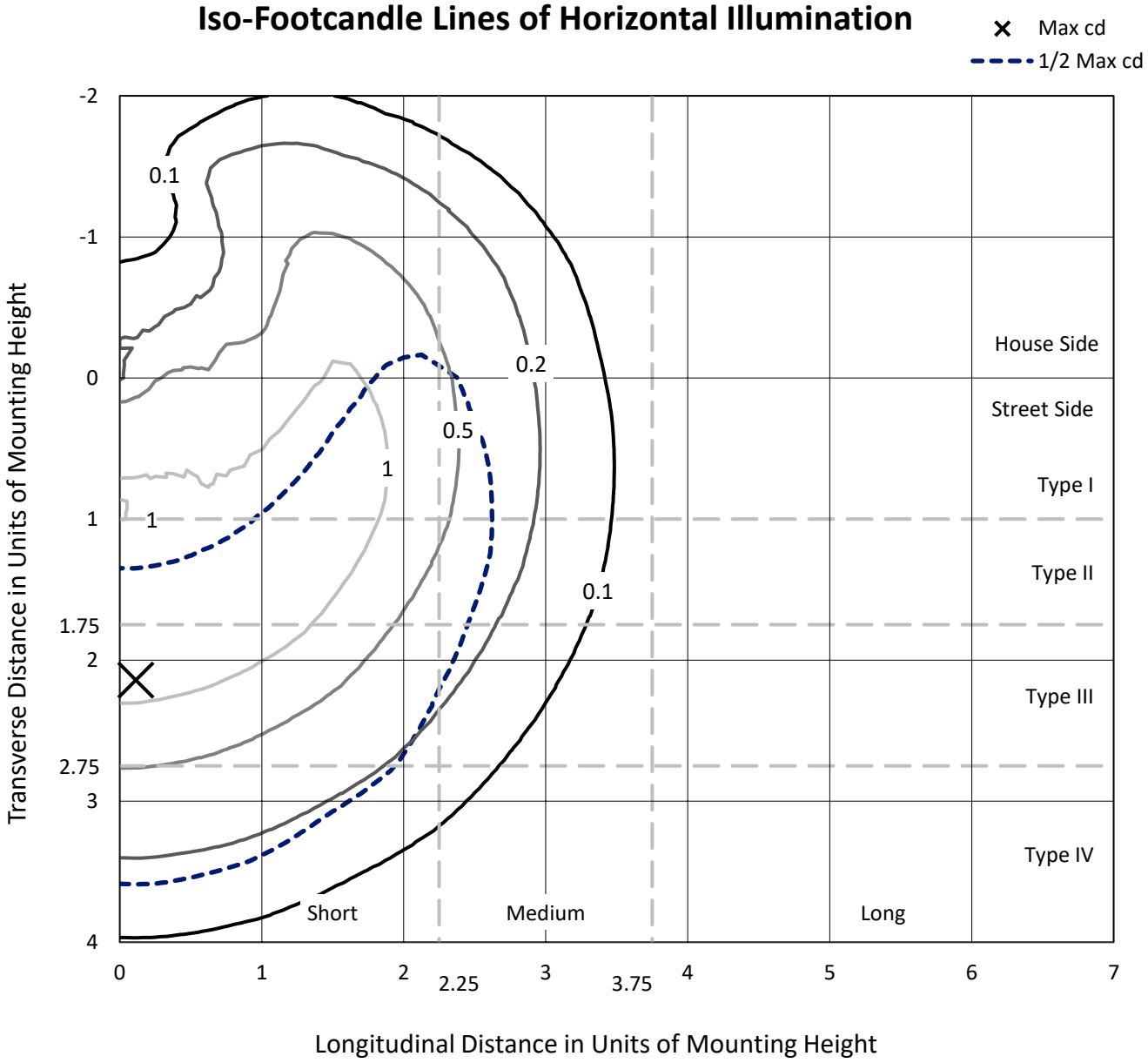


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045790
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



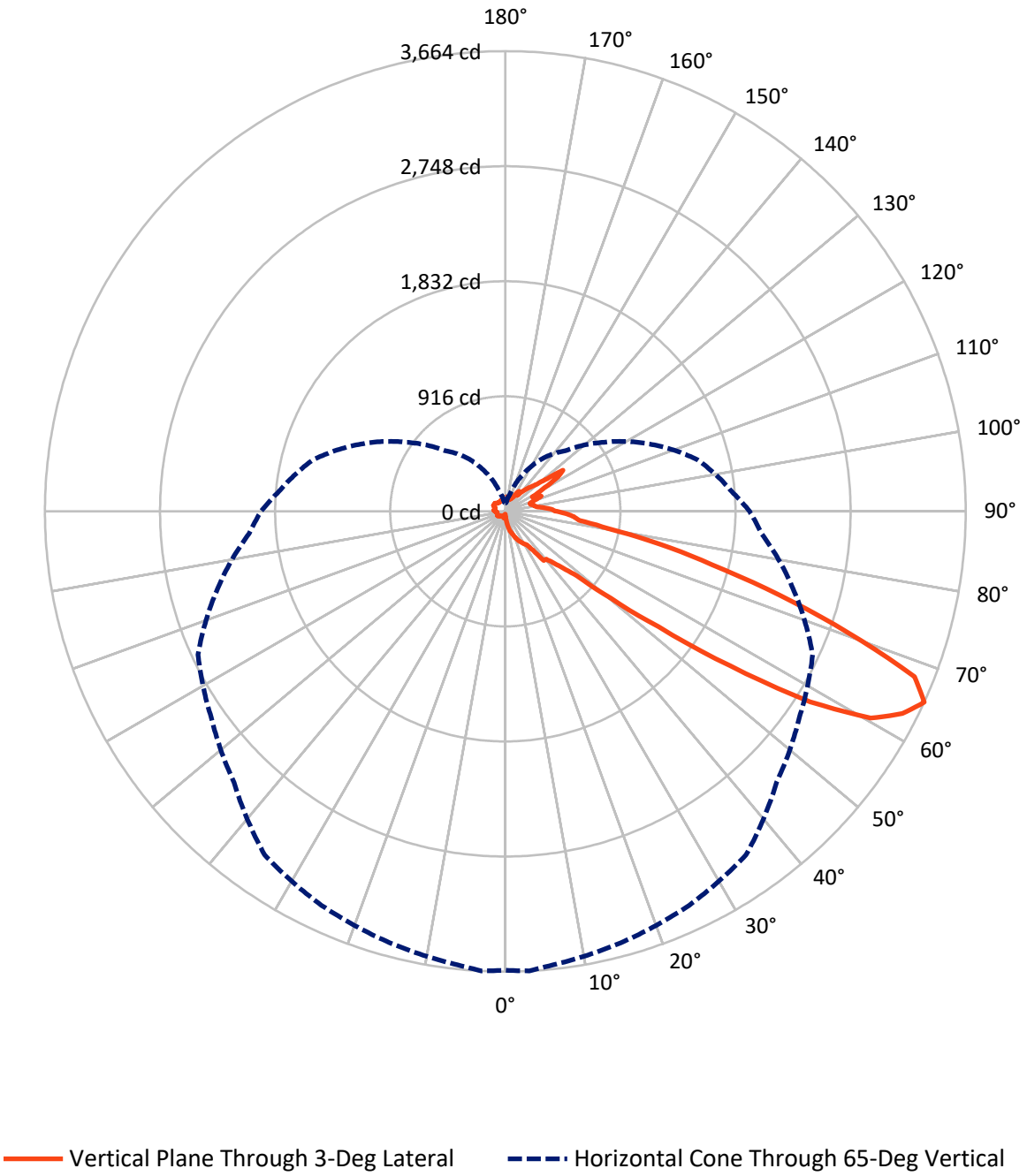
Based on 15 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045790
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

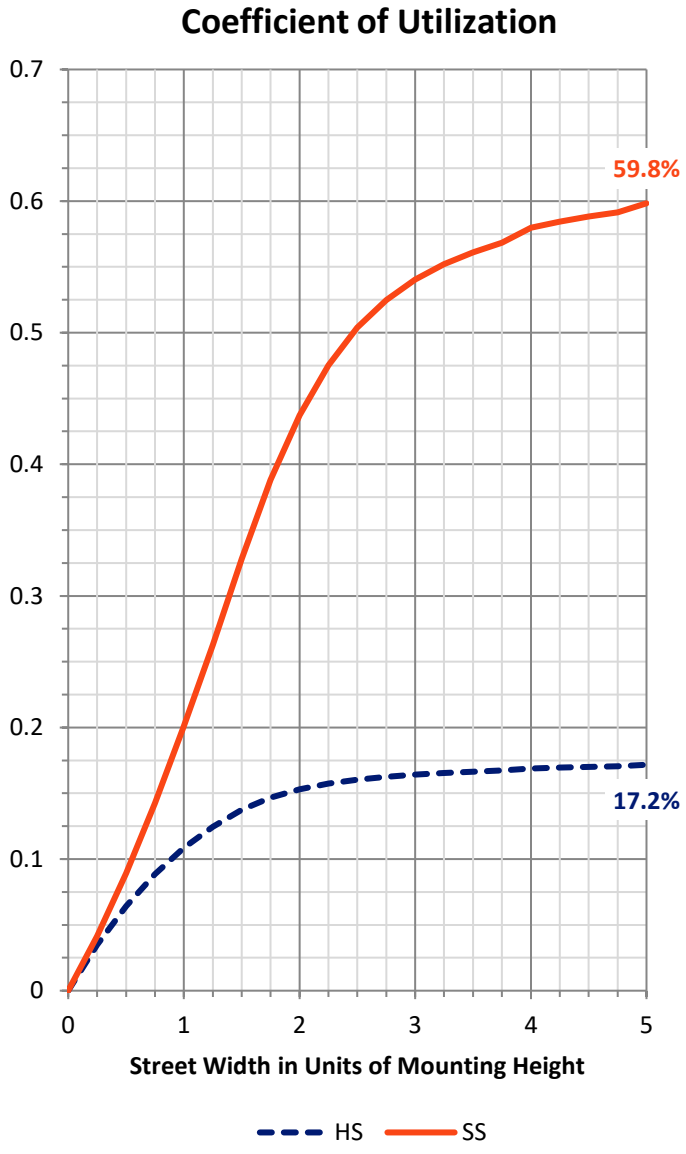
REPORT NUMBER: P1045790
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1065.8	414.9	1480.6
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	3725.6	772.1	4497.6
	% Fixture	62.3	12.9	75.2
Total	Lumens	4791.3	1186.9	5978.2
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	33.8	0.6
20°-30°	74.6	1.2
30°-40°	148.9	2.5
40°-50°	321.3	5.4
50°-60°	1098.6	18.4
60°-70°	1785.3	29.9
70°-80°	960.6	16.1
80°-90°	361.9	6.1
90°-100°	228.4	3.8
100°-110°	162.3	2.7
110°-120°	179.1	3.0
120°-130°	273.7	4.6
130°-140°	164.1	2.7
140°-150°	90.7	1.5
150°-160°	50.4	0.8
160°-170°	27.9	0.5
170°-180°	10.3	0.2
0°-90°	4791.3	80.1
0°-180°	5978.2	100.0



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

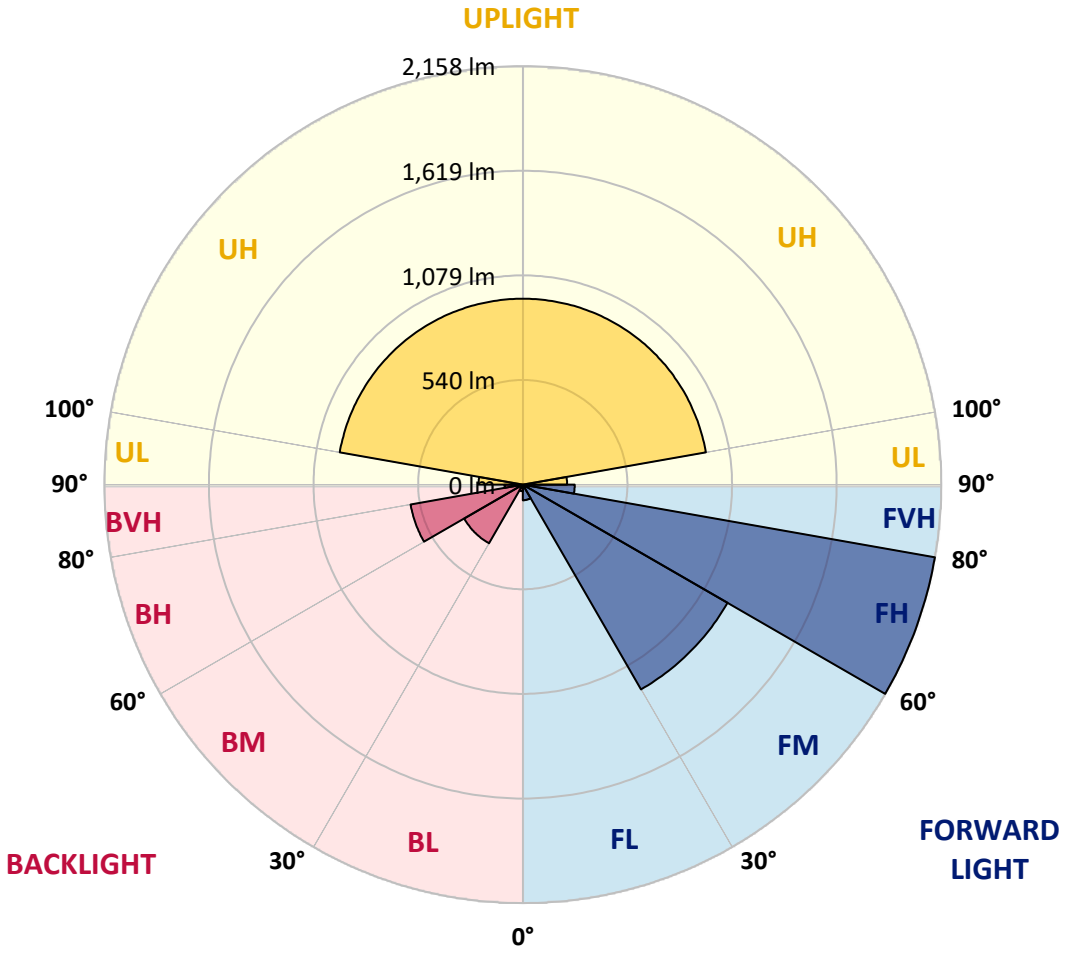
Scaled Data Report

REPORT NUMBER: P1045790
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	80.6	1.3			
FM	(30°-60°)	1219.4	20.4			
FH	(60°-80°)	2158.1	36.1			G2/5000
FVH	(80°-90°)	267.5	4.5			G3/500
BL	(0°-30°)	34.1	0.6	B0/110		
BM	(30°-60°)	349.4	5.8	B1/1000		
BH	(60°-80°)	587.8	9.8	B2/1000		G2/1000
BVH	(80°-90°)	94.5	1.6			G1/100
UL	(90°-100°)	228.4	3.8		U3/500	
UH	(100°-180°)	958.6	16.0		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1045790
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2.5°	47.5	48.2	48.2	48.2	49.6	50.2	49.6	47.5	44.9	43.5	42.2
5°	69.0	70.3	69.6	69.6	68.3	68.3	66.3	65.0	63.6	58.9	54.2
7.5°	95.8	94.4	93.8	92.4	93.1	89.7	87.1	87.1	85.0	80.4	73.0
10°	123.9	123.9	121.9	121.2	119.9	118.5	113.8	111.2	111.2	103.1	94.4
12.5°	154.7	154.0	154.7	153.4	151.3	148.0	142.6	136.6	133.3	125.9	113.2
15°	174.8	174.1	174.1	173.4	172.1	168.8	164.7	158.7	150.0	142.6	130.6
17.5°	196.2	194.9	194.9	191.5	188.8	184.8	181.5	175.5	164.7	151.3	140.0
20°	219.7	219.7	219.7	215.0	209.6	204.2	199.6	194.2	186.2	166.1	150.0
22.5°	241.8	242.4	241.8	237.1	232.4	223.7	216.3	209.6	201.6	181.5	162.1
25°	263.2	264.5	263.8	263.8	257.8	246.4	236.4	226.3	221.0	200.9	174.1
27.5°	281.9	282.6	283.3	286.6	283.3	270.5	254.5	242.4	238.4	216.3	184.2
30°	300.0	302.0	302.0	305.4	304.7	290.6	271.2	257.8	249.8	228.4	194.2
32.5°	317.4	318.8	319.4	327.5	326.8	308.0	291.3	276.6	263.2	247.1	211.6
35°	380.4	378.4	388.4	394.4	389.7	373.0	352.9	325.5	306.7	288.0	249.8
37.5°	497.6	496.2	496.2	482.8	464.1	444.7	439.3	410.5	387.7	363.6	311.4
40°	500.9	500.9	502.9	517.7	527.0	502.3	478.8	450.7	446.0	421.2	357.6
42.5°	549.8	555.2	560.5	570.6	587.3	571.2	544.4	499.6	478.1	452.7	398.5
45°	632.8	640.9	638.2	642.2	638.2	624.1	622.1	597.3	565.2	516.3	443.3
47.5°	770.1	765.4	762.8	778.8	804.9	778.8	772.8	733.3	671.7	609.4	526.4
50°	1107.6	1087.5	1108.3	1105.0	1100.3	1076.2	1058.1	1018.6	918.1	817.0	697.1
52.5°	1559.7	1526.8	1545.6	1558.3	1544.9	1510.8	1456.5	1379.5	1244.2	1113.7	955.6
55°	2216.6	2171.1	2177.1	2193.2	2202.5	2124.9	2047.2	1877.1	1674.2	1472.6	1301.2
57.5°	2941.9	2860.2	2913.7	2824.0	2787.2	2648.5	2582.9	2410.8	2172.4	1903.2	1626.6
60°	3350.4	3341.6	3331.6	3262.0	3223.1	3067.8	2913.7	2752.3	2538.7	2220.6	1897.2
62.5°	3527.8	3546.6	3531.8	3495.7	3460.8	3324.2	3056.4	2864.8	2691.4	2364.6	2041.8
65°	3653.0	3663.8	3639.0	3555.3	3460.8	3339.0	3053.0	2857.5	2698.8	2369.3	2047.8
67.5°	3509.7	3511.7	3481.6	3373.1	3181.6	3074.4	2797.2	2626.4	2471.1	2189.8	1889.1
70°	2891.0	2897.0	2878.2	2781.8	2621.1	2528.0	2260.8	2085.3	1968.2	1774.0	1552.3
72.5°	2253.4	2279.6	2252.8	2214.6	2061.9	1992.9	1813.5	1671.5	1563.7	1380.9	1202.1
75°	1694.3	1700.3	1701.0	1658.1	1577.7	1562.3	1439.1	1345.4	1251.6	1101.6	970.3
77.5°	1228.8	1255.6	1246.3	1238.9	1133.7	1139.8	1090.9	1035.3	976.4	876.6	782.8
80°	815.7	829.7	813.0	817.0	802.9	799.6	754.0	716.5	680.4	634.2	597.3
82.5°	594.7	592.0	590.6	583.3	572.6	574.6	551.8	505.6	462.1	452.7	418.5
85°	549.8	547.8	545.8	532.4	509.6	495.6	482.8	464.1	437.3	395.1	350.9
87.5°	480.8	481.5	476.8	462.7	448.0	444.0	433.9	421.9	408.5	377.0	338.2
90°	395.8	393.8	394.4	386.4	389.1	387.7	372.3	357.6	352.2	325.5	302.7
92.5°	365.6	363.6	364.3	358.3	348.9	346.9	330.1	312.1	304.0	287.3	269.9
95°	305.4	305.4	302.7	300.0	295.3	288.6	279.9	267.9	261.8	248.4	231.0
97.5°	256.5	253.8	255.8	251.1	247.1	244.4	237.7	225.7	219.7	209.6	196.2
100°	238.4	238.4	237.7	235.7	225.7	220.3	213.0	201.6	196.9	188.2	178.1
102.5°	228.4	227.7	227.0	225.0	215.6	206.3	196.9	190.2	184.8	177.5	166.7
105°	208.9	208.9	210.3	209.6	202.9	196.9	186.8	180.8	175.5	168.1	158.0
107.5°	206.9	206.3	206.3	198.2	189.5	186.2	178.8	173.4	168.8	161.4	150.0
110°	237.1	238.4	240.4	227.0	206.3	197.6	186.8	180.8	175.5	166.1	154.0

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

Scaled Data Report

REPORT NUMBER: P1045790
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	310.7	*310.7*	309.4	302.0	265.9	241.8	236.4	221.0	212.3	198.2	181.5
115°	279.3	*279.9*	279.3	281.3	278.6	248.4	253.8	228.4	243.1	210.3	198.9
117.5°	243.8	*243.1*	240.4	241.1	243.8	263.2	221.0	215.0	221.0	191.5	181.5
120°	340.2	*334.2*	340.2	315.4	311.4	314.7	290.6	285.9	260.5	225.0	198.2
122.5°	500.9	*491.5*	504.9	496.2	502.9	480.8	457.4	438.0	409.8	350.2	296.7
125°	565.9	*563.9*	560.5	548.5	537.7	528.4	532.4	539.8	524.4	476.1	413.9
127.5°	416.5	*421.9*	419.9	444.0	467.4	462.1	448.0	454.7	462.7	460.1	423.2
130°	332.2	*336.8*	339.5	363.0	383.1	383.1	360.3	354.3	361.0	375.0	361.0
132.5°	291.3	*292.6*	294.0	302.0	318.8	326.8	312.7	303.4	306.0	313.4	301.4
135°	262.5	*261.8*	259.8	254.5	255.8	263.8	269.9	268.5	266.5	266.5	259.8
137.5°	227.7	*227.0*	227.0	219.0	215.6	222.3	231.0	239.1	233.7	226.3	218.3
140°	189.5	*188.8*	189.5	194.2	195.5	196.2	200.9	200.9	200.9	200.2	196.9
142.5°	157.4	*158.0*	159.4	171.4	177.5	177.5	171.4	166.1	165.4	169.4	170.1
145°	193.5	*193.5*	194.2	193.5	189.5	185.5	181.5	181.5	177.5	168.1	163.4
147.5°	172.8	*175.5*	173.4	175.5	176.8	177.5	176.8	178.8	179.5	174.1	166.7
150°	135.9	*135.3*	133.9	135.9	139.3	143.3	144.6	146.0	146.7	146.7	146.7
152.5°	117.9	*118.5*	117.9	119.9	121.9	122.5	124.6	124.6	125.2	124.6	123.2
155°	114.5	*114.5*	114.5	114.5	115.2	116.5	119.2	120.5	119.2	117.2	113.8
157.5°	106.5	*106.5*	106.5	107.1	108.5	109.8	111.8	113.2	113.2	111.8	109.2
160°	101.8	*101.8*	101.8	101.8	103.1	104.5	105.8	107.1	107.1	106.5	104.5
162.5°	96.4	*96.4*	96.4	97.1	98.4	99.8	101.1	102.5	101.8	101.8	100.5
165°	95.8	*95.8*	95.8	96.4	97.8	99.8	100.5	100.5	101.1	101.1	101.1
167.5°	98.4	*98.4*	99.1	99.1	100.5	101.1	102.5	103.1	103.8	103.1	103.1
170°	102.5	*102.5*	102.5	103.1	103.8	103.8	104.5	104.5	105.1	105.1	105.1
172.5°	107.8	*107.8*	107.8	107.8	107.1	107.1	107.1	107.1	107.8	107.1	107.8
175°	113.8	*113.8*	113.8	113.2	112.5	112.5	111.8	111.8	111.2	110.5	110.5
177.5°	114.5	*114.5*	114.5	114.5	113.8	113.2	113.2	112.5	111.8	111.8	111.8
180°	111.8	*111.8*	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8

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

Scaled Data Report

REPORT NUMBER: P1045790
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2.5°	40.8	39.5	36.2	33.5	31.5	28.8	26.8	24.8	23.4	22.8	22.1
5°	53.6	50.9	46.9	42.9	39.5	34.8	32.1	27.5	24.1	22.8	22.1
7.5°	70.3	68.3	66.3	65.6	64.3	58.3	49.6	42.9	41.5	40.2	41.5
10°	89.7	85.7	79.7	83.0	83.0	71.7	59.6	52.9	52.2	54.9	55.6
12.5°	107.8	102.5	95.1	94.4	87.1	71.7	58.9	52.2	51.6	52.2	52.9
15°	124.6	118.5	110.5	103.8	92.4	76.3	61.6	52.9	50.9	52.9	52.9
17.5°	133.9	127.9	116.5	103.8	90.4	75.7	60.9	51.6	46.9	44.2	44.2
20°	145.3	140.6	125.2	109.2	91.1	75.0	60.3	50.2	44.9	42.2	41.5
22.5°	155.4	150.0	133.3	115.9	95.1	75.0	58.3	49.6	44.9	42.2	41.5
25°	167.4	159.4	142.6	123.2	98.4	75.0	58.3	50.2	45.5	42.9	42.2
27.5°	175.5	166.1	150.0	128.6	102.5	76.3	60.3	50.9	45.5	42.9	42.9
30°	183.5	174.8	156.0	135.9	107.1	79.7	63.6	53.6	47.5	44.2	44.2
32.5°	199.6	188.2	165.4	142.0	111.2	82.4	67.0	56.3	49.6	46.2	46.2
35°	235.7	219.7	192.2	159.4	116.5	85.0	70.3	59.6	50.9	46.9	46.9
37.5°	290.6	270.5	237.1	192.2	129.9	89.1	73.0	60.9	52.2	48.9	48.2
40°	326.8	302.0	261.8	218.3	149.3	95.8	76.3	62.9	53.6	49.6	48.9
42.5°	370.3	340.2	286.6	226.3	159.4	109.8	83.0	66.3	55.6	50.2	49.6
45°	409.8	384.4	334.2	264.5	188.2	130.6	95.1	72.3	58.9	52.2	51.6
47.5°	490.2	450.7	383.7	312.1	224.3	162.1	115.9	81.7	64.3	54.9	53.6
50°	646.9	606.0	525.0	413.9	290.0	206.3	149.3	99.1	71.0	57.6	55.6
52.5°	878.6	803.6	713.2	563.2	411.2	298.0	211.6	140.0	84.4	60.3	56.9
55°	1188.7	1145.8	985.8	794.9	586.0	446.0	325.5	217.6	125.9	63.6	57.6
57.5°	1544.3	1459.2	1313.2	1075.5	783.5	567.9	440.0	324.1	185.5	74.3	60.9
60°	1773.3	1684.9	1517.5	1277.1	953.6	677.0	501.6	361.0	210.3	76.3	63.6
62.5°	1921.3	1797.4	1585.1	1303.8	1003.2	721.9	529.7	342.9	179.5	74.3	65.6
65°	*1944.0*	*1809.4*	*1585.1*	*1267.0*	*958.3*	*685.1*	*512.3*	*316.8*	*141.3*	*71.0*	*68.3*
67.5°	1809.4	1663.5	1477.3	1161.9	859.9	587.3	440.0	258.5	107.1	69.0	67.6
70°	1465.2	1373.5	1204.1	946.9	686.4	480.8	350.2	198.2	87.1	67.0	66.3
72.5°	1119.7	1053.4	934.9	738.0	529.0	371.0	267.2	156.0	78.4	65.6	65.0
75°	891.3	831.1	734.6	568.5	403.8	285.9	199.6	119.9	71.7	65.6	64.3
77.5°	735.3	682.4	595.3	450.7	294.7	213.6	151.3	97.1	70.3	65.6	65.0
80°	565.9	527.7	462.7	327.5	210.9	160.1	120.5	86.4	70.3	67.0	66.3
82.5°	401.1	386.4	337.5	255.1	177.5	139.3	111.2	85.0	71.7	68.3	67.6
85°	333.5	316.1	281.3	222.3	165.4	134.6	109.8	87.1	75.0	72.3	71.7
87.5°	321.4	310.1	275.9	215.0	158.7	128.6	105.1	85.0	75.0	73.7	74.3
90°	290.6	277.9	251.8	200.2	152.0	127.9	107.1	88.4	77.7	76.3	75.7
92.5°	263.8	256.5	233.7	193.5	156.7	132.6	113.2	96.4	87.7	85.0	85.0
95°	225.7	218.3	205.6	177.5	149.3	129.9	113.2	98.4	91.1	89.7	89.1
97.5°	192.2	187.5	176.8	154.7	132.6	116.5	101.8	90.4	84.4	82.4	82.4
100°	175.5	171.4	162.7	148.0	131.3	117.9	105.8	95.8	90.4	89.1	89.1
102.5°	163.4	160.1	152.0	141.3	126.6	115.9	105.8	97.1	91.1	89.7	90.4
105°	153.4	150.0	142.0	131.3	119.2	107.8	100.5	93.8	87.1	85.0	85.0
107.5°	146.0	142.6	135.9	125.2	115.2	105.1	97.1	91.7	86.4	85.0	85.0
110°	149.3	144.6	134.6	123.2	114.5	105.8	99.1	93.8	89.7	87.7	87.7

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

Scaled Data Report

REPORT NUMBER: P1045790
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	174.8	167.4	150.7	134.6	123.2	113.2	105.8	98.4	95.1	92.4	92.4
115°	191.5	184.2	167.4	148.0	131.3	117.2	107.1	101.1	97.1	99.8	98.4
117.5°	174.8	169.4	156.7	142.6	129.2	117.2	108.5	104.5	101.8	105.1	106.5
120°	192.2	182.1	172.1	156.0	131.3	114.5	108.5	107.1	107.1	104.5	104.5
122.5°	274.6	257.8	220.3	192.9	158.7	140.0	128.6	117.9	107.1	103.1	102.5
125°	384.4	352.9	305.4	257.2	210.3	170.8	138.0	117.9	107.8	101.8	100.5
127.5°	404.5	377.0	333.5	275.2	211.6	166.7	137.3	121.9	110.5	103.8	103.1
130°	341.5	328.1	289.3	239.1	190.2	155.4	135.9	121.9	111.2	105.1	103.8
132.5°	290.0	280.6	244.4	204.2	169.4	144.0	126.6	111.2	101.1	95.8	94.4
135°	249.1	243.1	211.6	182.8	156.7	135.9	117.9	103.1	95.1	91.7	91.1
137.5°	213.6	207.6	186.2	166.1	146.0	127.9	113.2	100.5	93.1	91.1	90.4
140°	191.5	186.2	172.8	151.3	131.9	113.2	102.5	94.4	90.4	89.1	88.4
142.5°	166.7	160.7	146.0	130.6	117.2	102.5	95.1	91.7	89.7	88.4	87.7
145°	158.0	154.0	137.3	123.2	110.5	103.1	99.1	94.4	90.4	87.7	87.1
147.5°	160.1	155.4	140.6	127.2	115.9	107.8	101.1	94.4	89.1	86.4	85.7
150°	143.3	142.0	133.3	122.5	111.8	103.1	96.4	91.1	87.7	87.1	87.1
152.5°	119.9	119.2	115.2	109.2	101.8	95.1	90.4	87.7	87.7	89.1	89.7
155°	112.5	110.5	107.8	103.8	97.8	93.1	89.7	88.4	89.1	90.4	90.4
157.5°	108.5	106.5	103.8	100.5	97.1	93.1	90.4	89.7	91.1	92.4	92.4
160°	103.1	101.8	99.8	96.4	93.8	91.7	90.4	90.4	91.1	91.7	91.7
162.5°	99.8	98.4	96.4	94.4	93.1	92.4	91.7	91.1	91.7	92.4	92.4
165°	99.8	99.1	96.4	94.4	93.8	93.8	93.8	93.8	93.8	93.1	93.1
167.5°	102.5	101.8	99.8	98.4	97.8	98.4	98.4	97.8	97.1	95.8	95.8
170°	105.1	104.5	103.8	103.1	102.5	103.1	103.1	103.1	102.5	102.5	101.8
172.5°	107.8	107.1	106.5	105.8	105.8	105.8	106.5	107.1	107.1	107.1	107.1
175°	110.5	110.5	109.2	108.5	108.5	108.5	109.2	109.2	109.8	109.8	109.8
177.5°	111.8	111.8	111.8	111.8	112.5	111.8	111.8	111.2	111.2	111.2	111.2
180°	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8

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

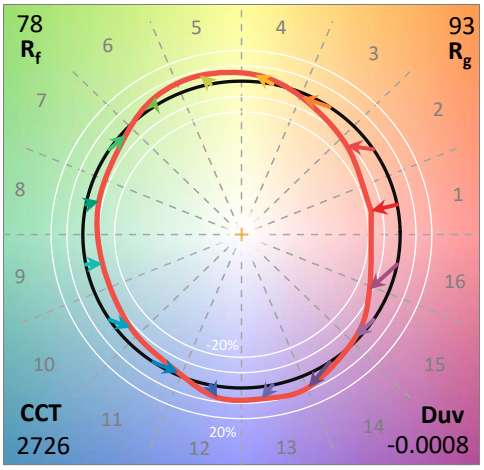
Test Information

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

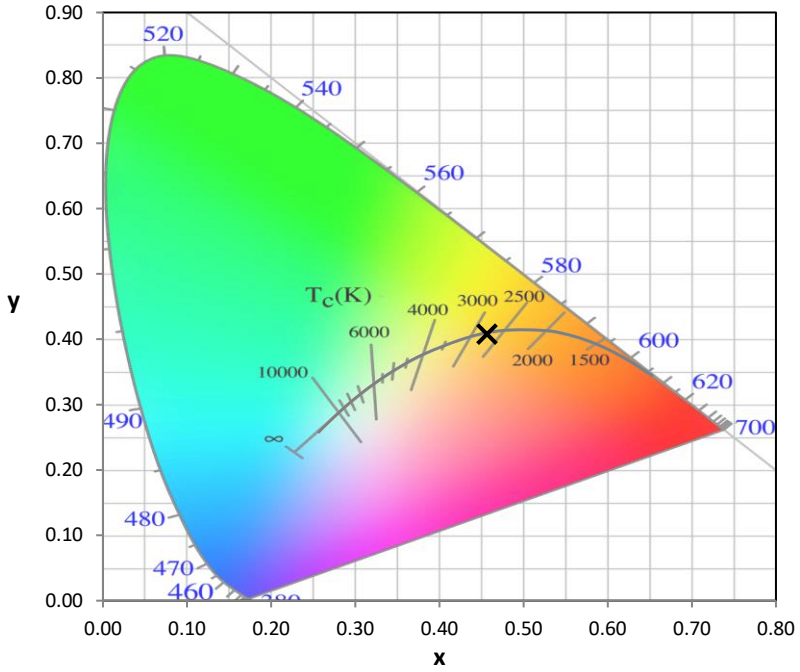
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

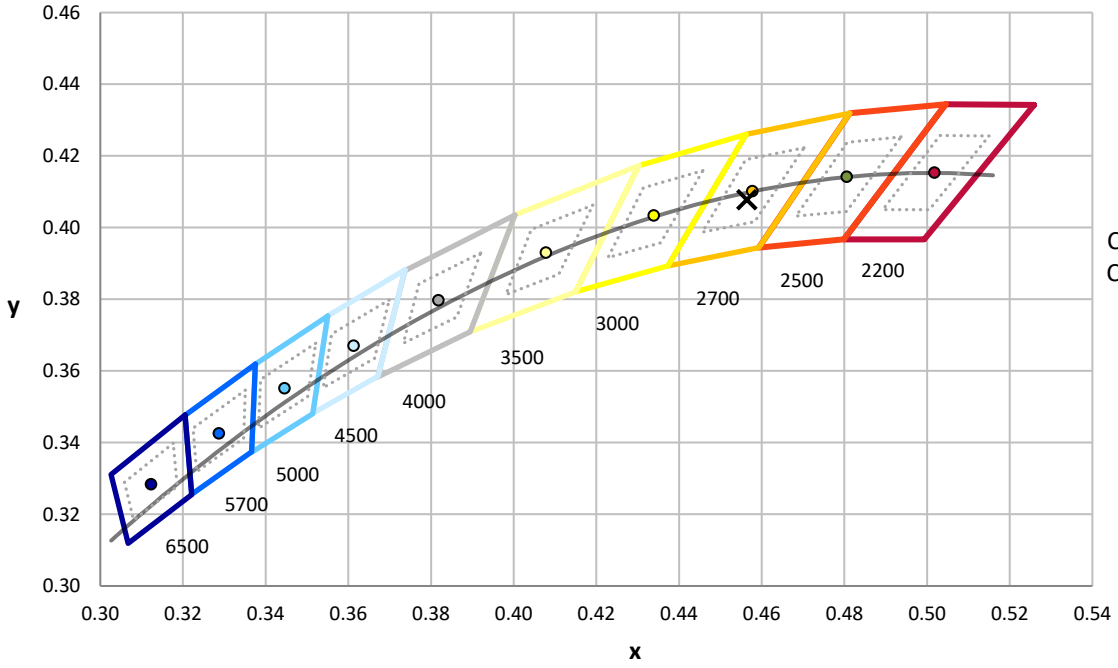
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

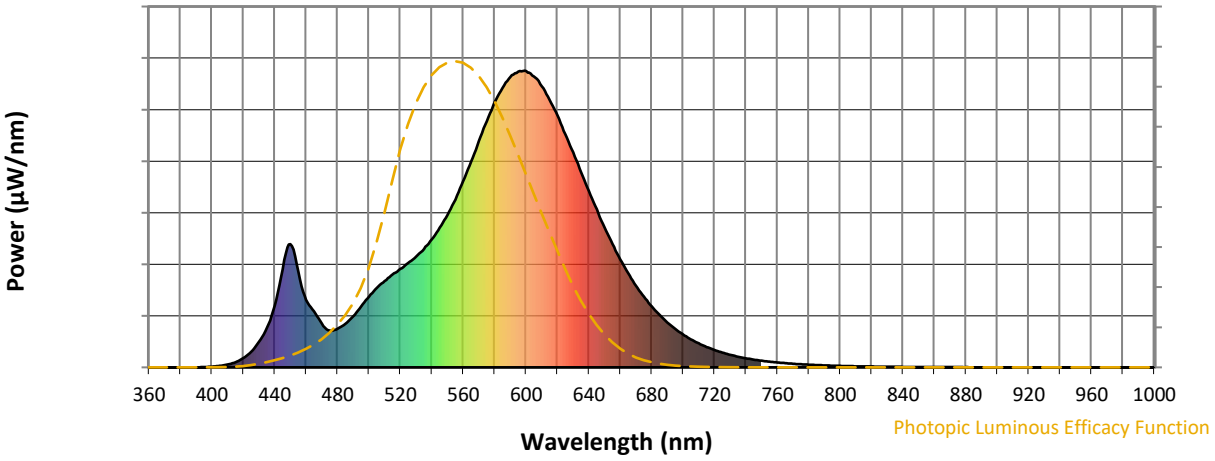


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

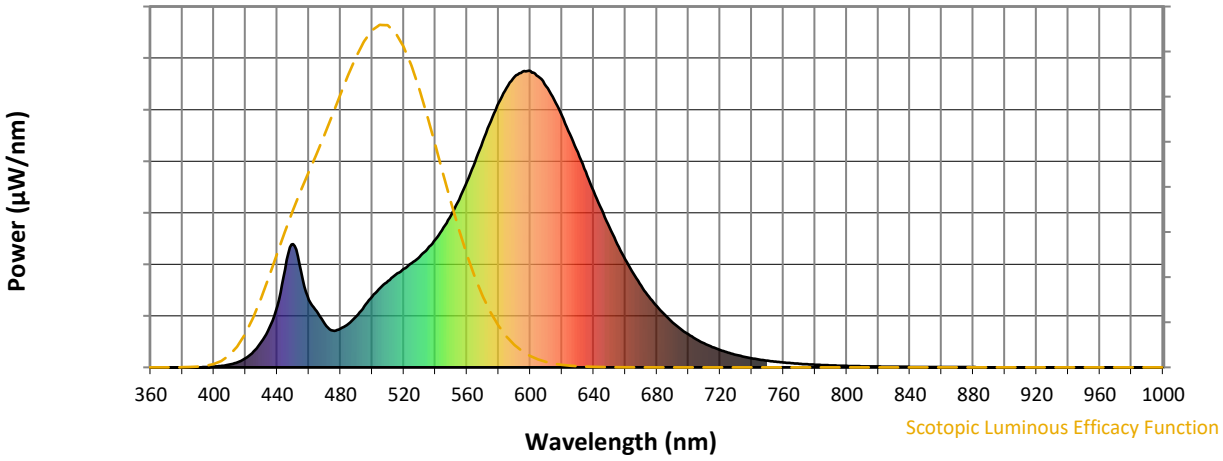


Photopic Lumens: NR

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

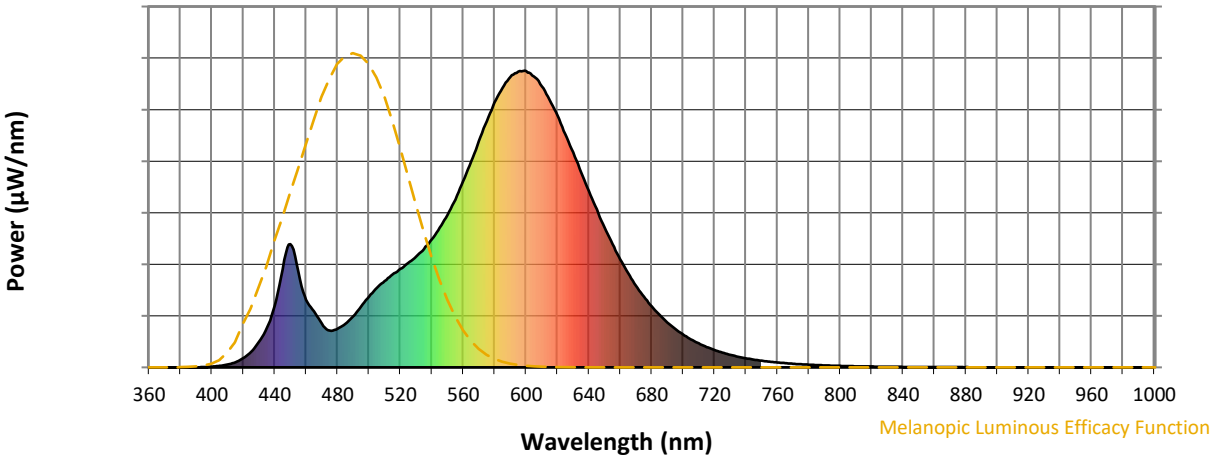


Scotopic Lumens: NR **S/P: 1.16**

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			

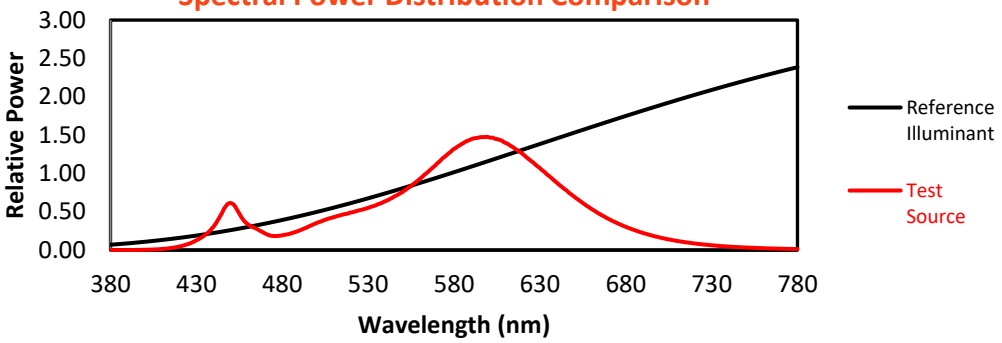
REPORT NUMBER: SP1-2501-332-3

TM-30-18

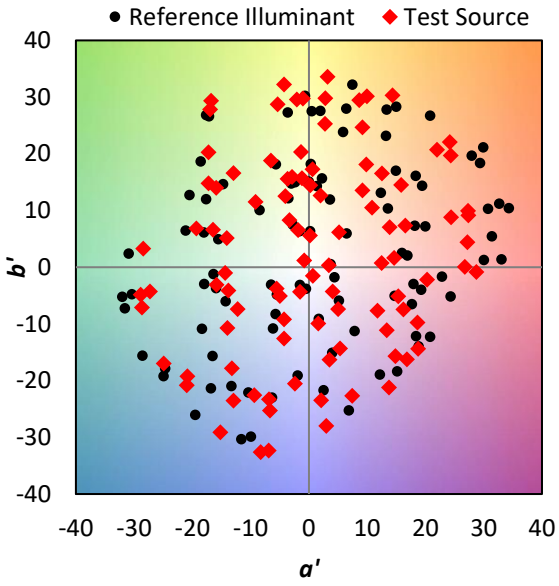
Summary

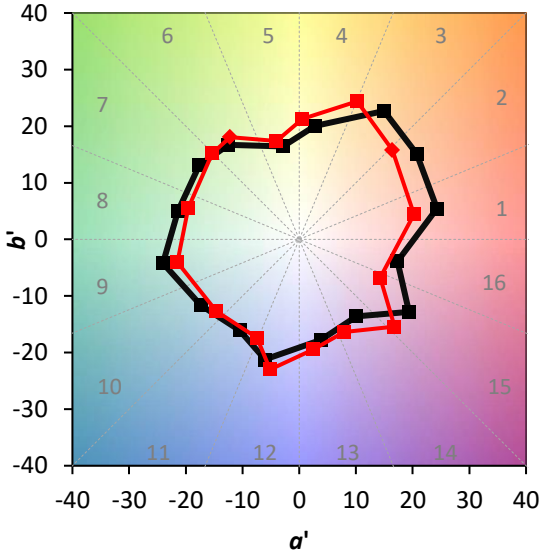
R_f = 77.8
R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

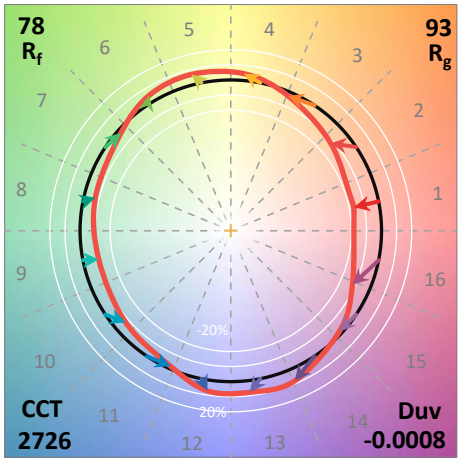
Spectral Power Distribution Comparison

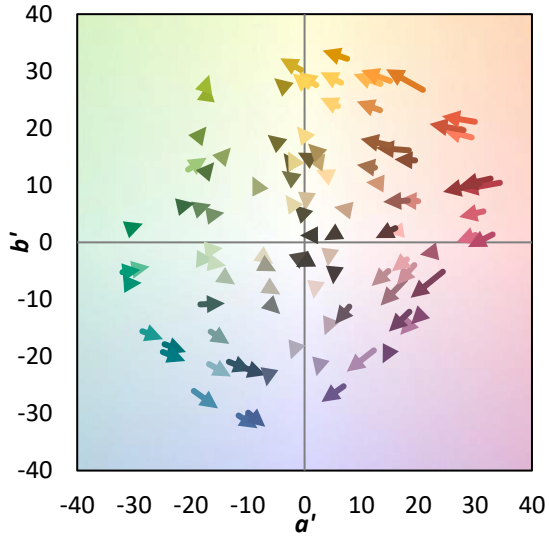


Color Vector Graphics







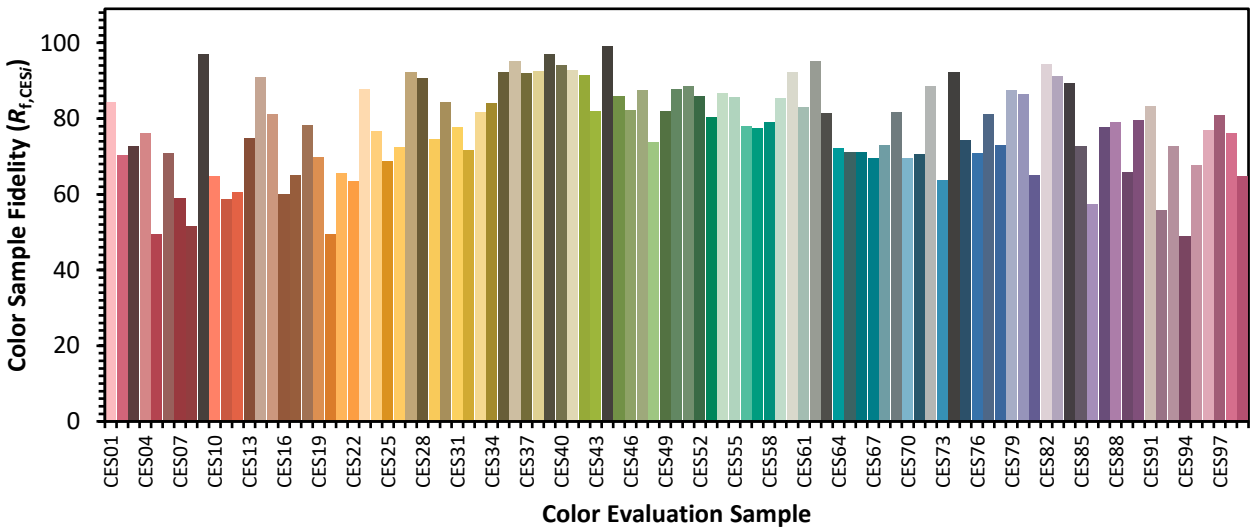


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

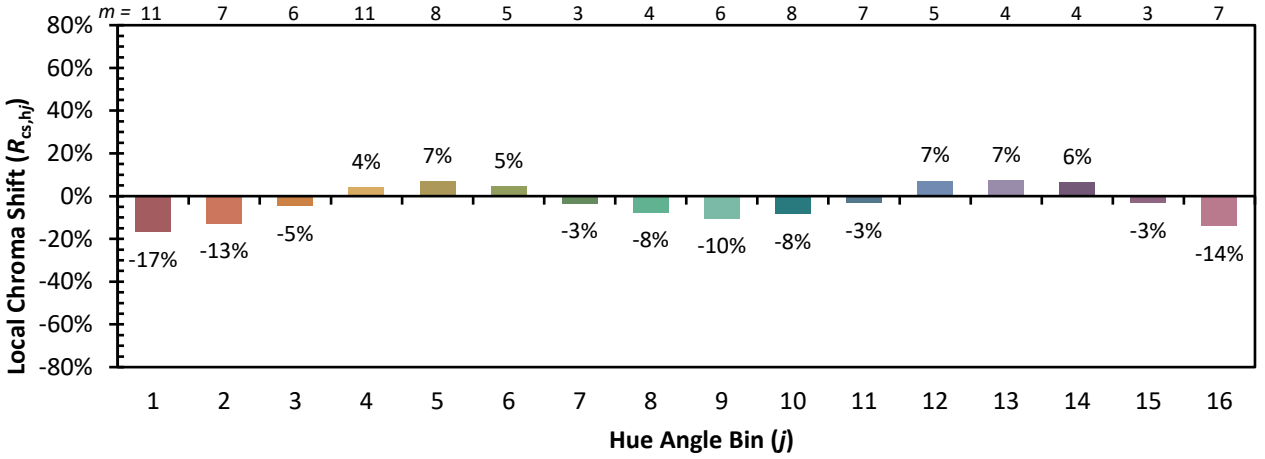
CES01 = 86	CES26 = 72	CES51 = 88	CES76 = 71
CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82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

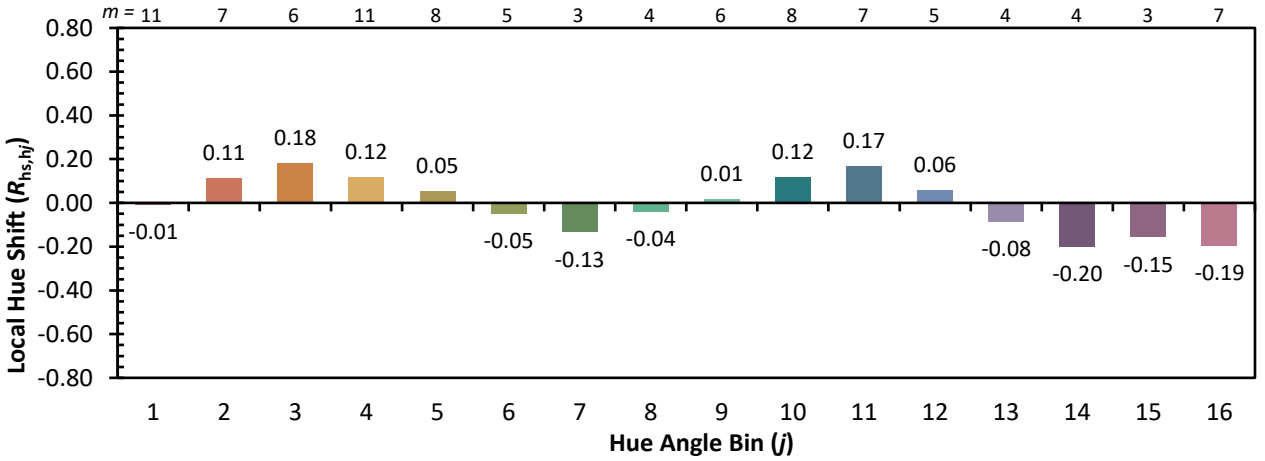


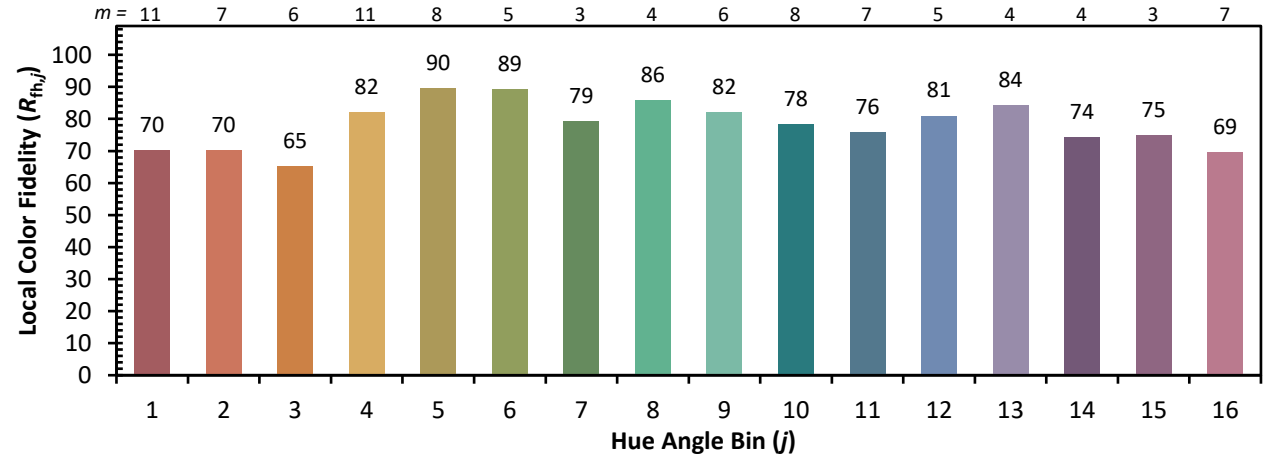
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



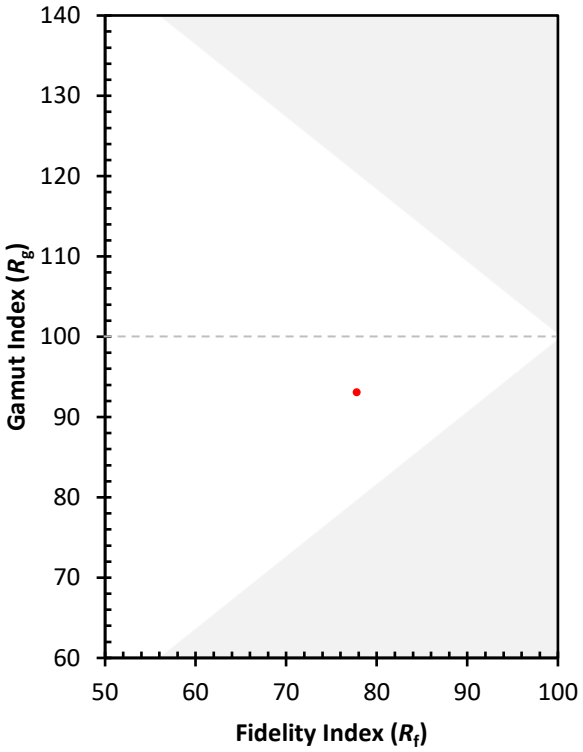


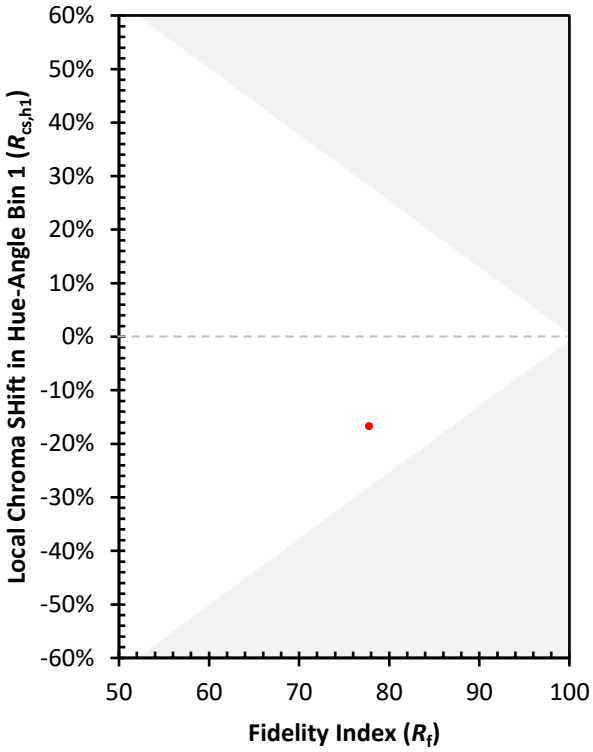


REPORT NUMBER: SP1-2501-332-3

TM-30-18

Measure Comparisons





(END OF REPORT)