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: P1224012

Luminaire Tested: **FFX-CLB-20-750-U-VM8-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

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:	P1224012
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-750-U-VM8-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3272.5 lumens
Efficiency:	N/A
Efficacy:	165.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

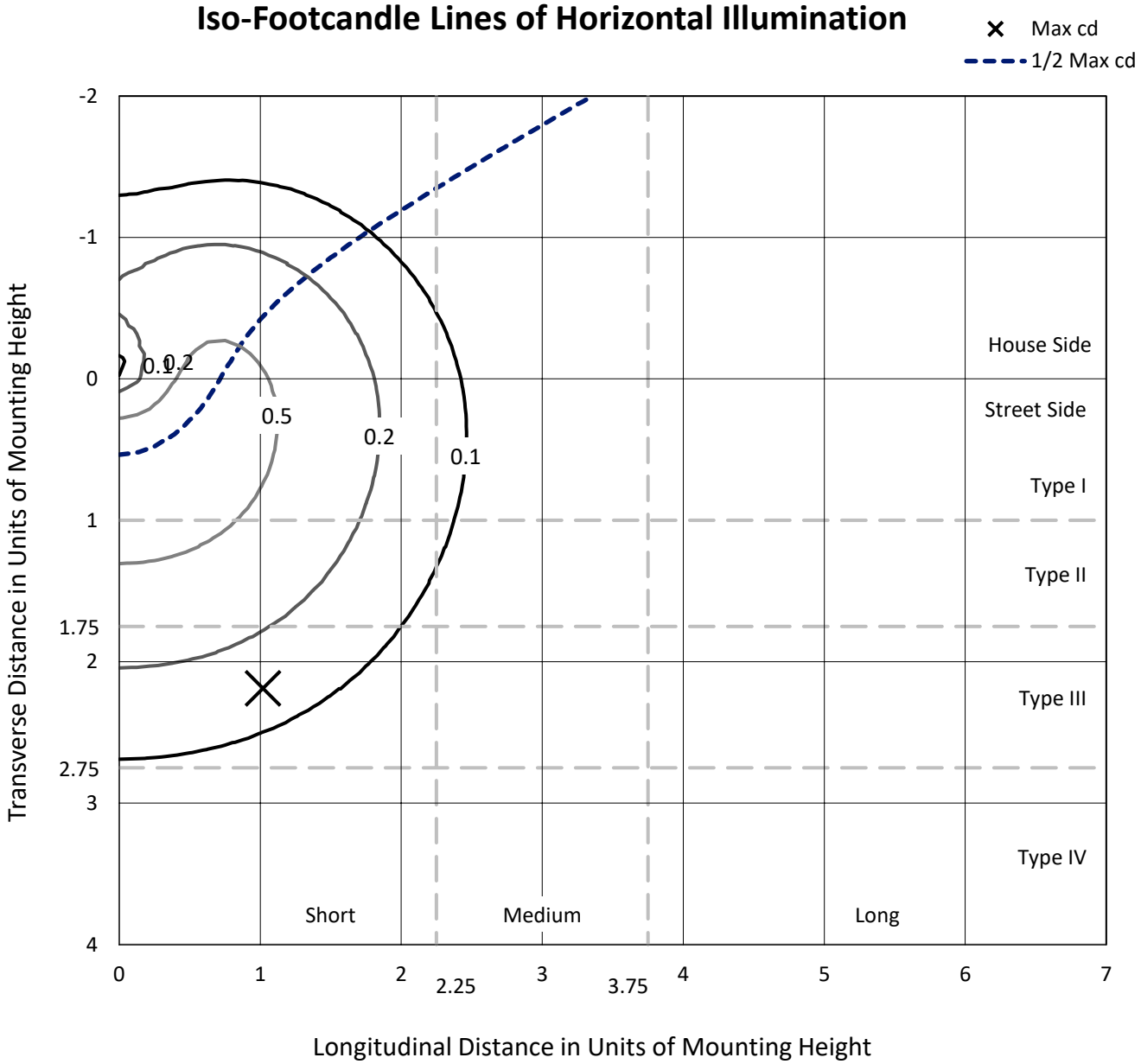


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1224012
CATALOG NUMBER: FFX-CLB-20-750-U-VM8-T4

Iso-Footcandle Lines of Horizontal Illumination



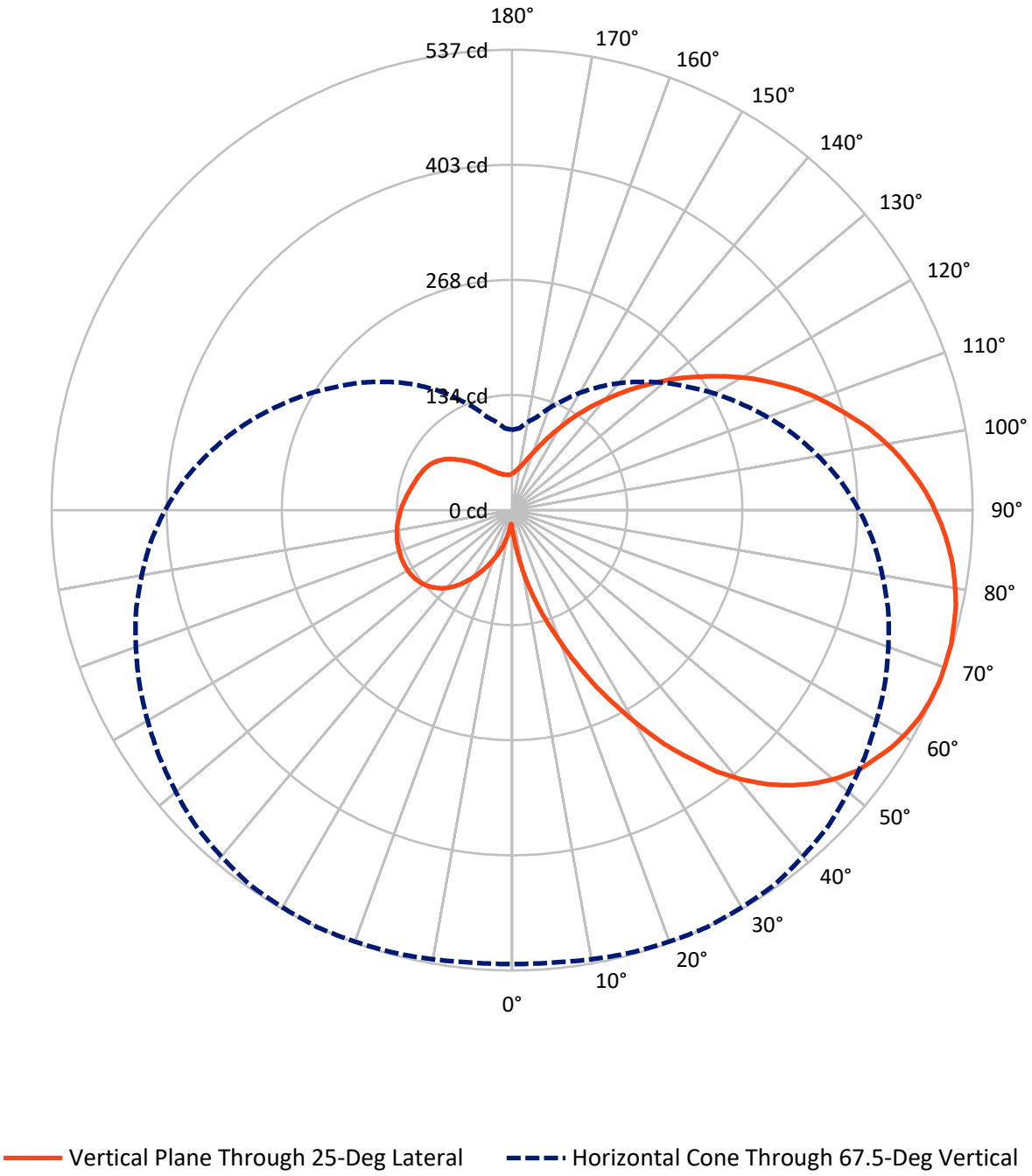
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1224012
CATALOG NUMBER: FFX-CLB-20-750-U-VM8-T4

Luminous Intensity Polar Plot



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

Scaled Data Report

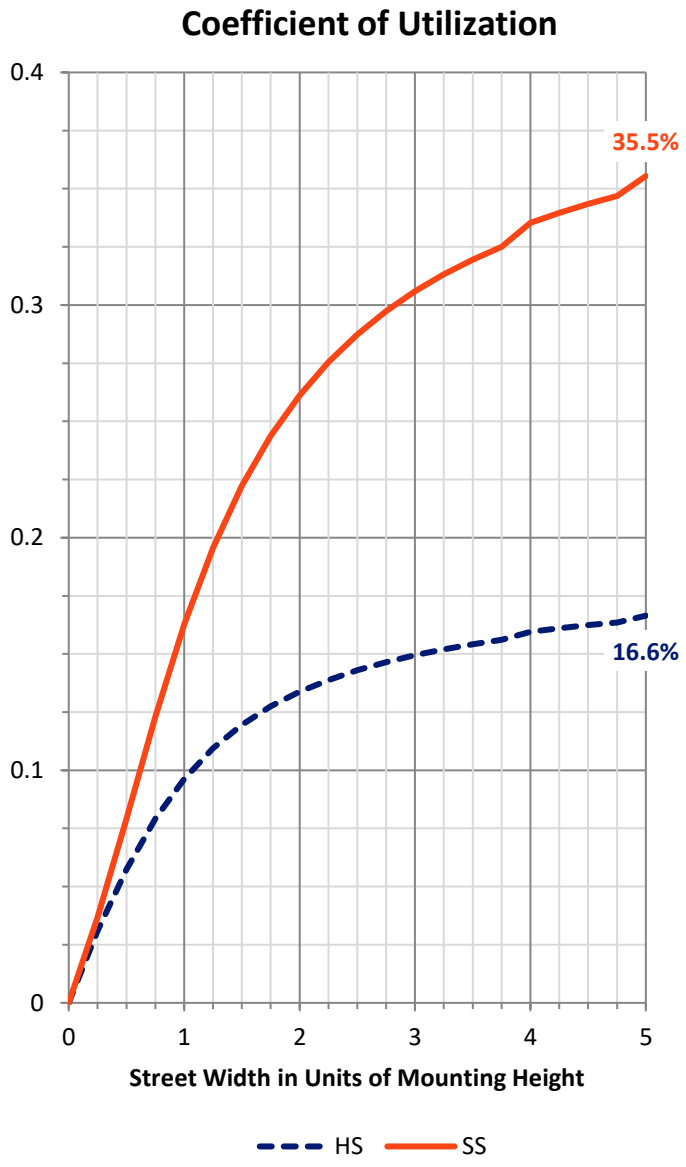
REPORT NUMBER: P1224012
CATALOG NUMBER: FFX-CLB-20-750-U-VM8-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.3	458.1	1057.4
	% Fixture	18.3	14.0	32.3
Street Side	Lumens	1324.3	890.8	2215.1
	% Fixture	40.5	27.2	67.7
Total	Lumens	1923.6	1348.9	3272.5
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.1
10°-20°	24.9	0.8
20°-30°	74.5	2.3
30°-40°	153.4	4.7
40°-50°	239.5	7.3
50°-60°	310.3	9.5
60°-70°	357.7	10.9
70°-80°	380.6	11.6
80°-90°	379.0	11.6
90°-100°	353.6	10.8
100°-110°	309.0	9.4
110°-120°	253.1	7.7
120°-130°	188.2	5.8
130°-140°	122.4	3.7
140°-150°	69.3	2.1
150°-160°	34.2	1.0
160°-170°	14.9	0.5
170°-180°	4.2	0.1
0°-90°	1923.6	58.8
0°-180°	3272.5	100.0



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

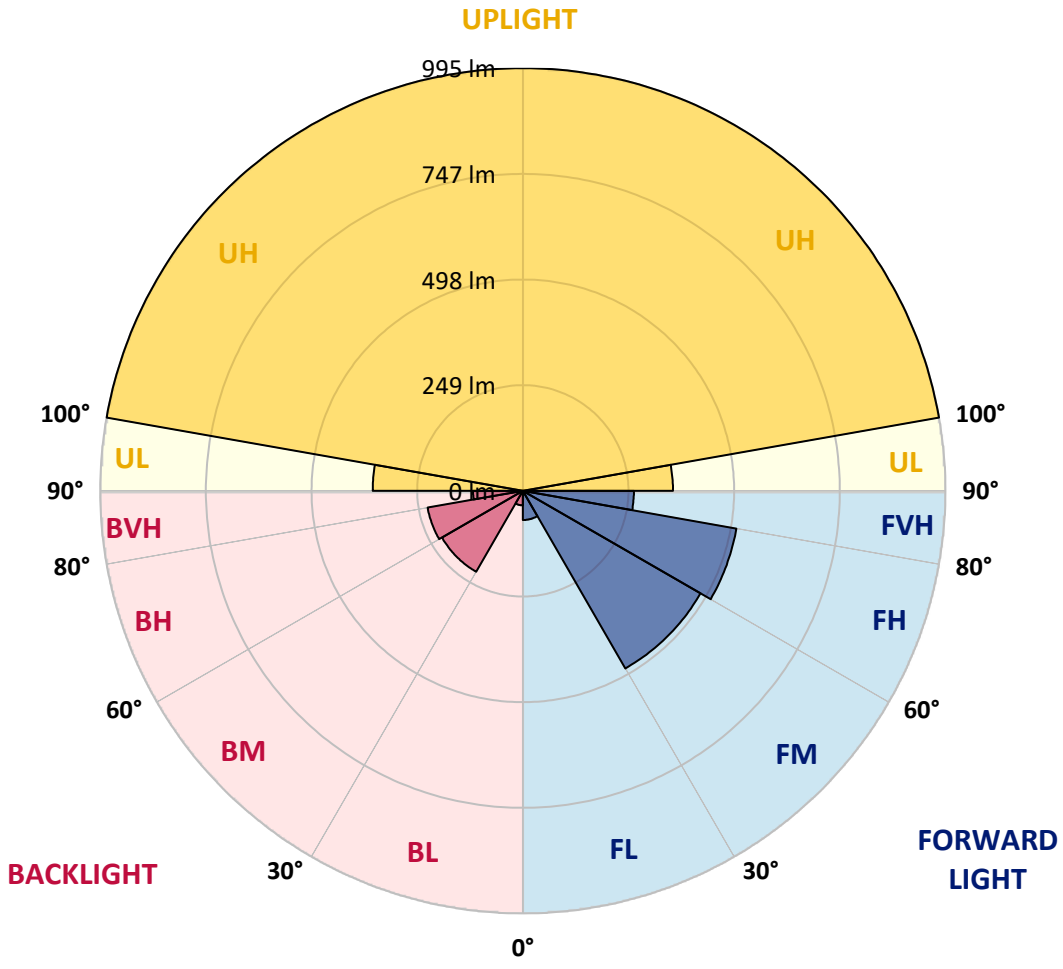
Scaled Data Report

REPORT NUMBER: P1224012
CATALOG NUMBER: FFX-CLB-20-750-U-VM8-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	68.8	2.1			
FM	(30°-60°)	483.2	14.8			
FH	(60°-80°)	510.8	15.6			G0/660
FVH	(80°-90°)	261.6	8.0			G3/500
BL	(0°-30°)	34.3	1.0	B0/110		
BM	(30°-60°)	220.0	6.7	B1/1000		
BH	(60°-80°)	227.6	7.0	B1/500		G1/500
BVH	(80°-90°)	117.4	3.6			G2/225
UL	(90°-100°)	353.6	10.8		U3/500	
UH	(100°-180°)	995.4	30.4		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1224012
CATALOG NUMBER: FFX-CLB-20-750-U-VM8-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
2.5°	28.3	28.3	28.5	28.5	28.0	28.3	27.8	27.2	26.8	25.8	25.3
5°	41.1	40.5	40.7	40.3	39.5	39.1	37.4	36.1	34.1	31.8	30.7
7.5°	57.1	57.3	56.5	55.5	55.3	53.0	52.6	48.6	46.9	43.0	42.0
10°	76.9	76.4	75.6	75.4	73.5	71.3	67.7	65.6	60.2	57.3	55.1
12.5°	98.5	98.7	97.2	95.8	94.1	91.0	86.2	82.9	78.5	72.5	69.6
15°	121.7	120.9	120.9	119.2	116.7	113.2	109.5	104.7	98.5	92.0	87.9
17.5°	143.3	145.0	144.4	142.3	140.0	135.7	131.7	125.1	118.2	111.1	105.9
20°	170.3	170.8	169.7	167.9	165.8	160.8	156.0	149.4	140.8	129.8	125.5
22.5°	197.6	198.4	198.4	197.4	194.4	190.1	182.4	175.1	164.5	153.5	146.2
25°	228.9	228.3	228.9	228.3	223.5	219.6	211.7	203.0	191.5	178.0	169.3
27.5°	260.5	261.3	259.7	258.2	256.4	250.1	241.6	230.6	216.3	202.1	192.8
30°	291.3	293.1	293.1	291.5	288.6	282.3	272.8	260.9	245.1	227.3	216.3
32.5°	323.5	324.1	324.9	324.7	321.4	315.3	304.8	288.8	271.1	251.4	240.6
35°	357.5	355.7	356.1	354.8	353.4	345.9	333.6	318.3	299.1	277.1	264.0
37.5°	385.8	384.9	385.6	386.6	382.7	375.0	360.8	343.0	322.0	298.9	285.9
40°	412.6	411.9	413.0	413.2	409.2	400.3	385.4	368.1	345.5	318.9	306.6
42.5°	435.0	435.0	436.0	437.3	433.1	423.6	408.4	387.9	364.6	337.8	322.8
45°	455.8	455.2	457.2	457.9	453.7	444.1	427.1	406.3	381.4	354.2	338.6
47.5°	472.4	472.6	474.7	475.9	472.2	461.4	444.1	422.1	396.2	367.7	351.7
50°	486.1	488.0	489.9	491.3	487.4	476.6	458.7	434.8	408.8	380.2	363.5
52.5°	499.8	499.8	502.7	504.6	500.2	489.0	470.3	447.1	420.5	390.1	373.9
55°	508.5	508.8	512.3	512.9	510.2	498.6	479.5	456.2	429.6	399.1	381.8
57.5°	516.2	516.4	520.4	521.8	518.1	506.9	487.4	463.3	437.3	406.1	388.7
60°	522.9	522.7	526.0	528.1	524.3	512.5	493.4	469.9	443.3	412.6	394.5
62.5°	527.0	527.0	531.0	533.1	529.1	517.5	498.0	474.7	448.1	416.9	399.1
65°	528.9	529.3	533.1	535.6	531.8	520.0	500.4	477.6	451.4	420.5	402.4
67.5°	529.5	529.7	534.3	536.8	533.3	521.2	501.9	479.5	453.9	422.8	404.5
70°	529.9	530.2	533.7	536.2	533.1	521.0	502.3	480.3	455.4	424.0	405.7
72.5°	527.7	528.3	532.2	535.1	531.4	519.6	501.3	480.3	455.2	424.8	406.1
75°	524.8	526.2	529.7	532.2	528.9	517.5	499.6	479.5	455.0	424.4	406.1
77.5°	521.8	522.1	526.6	528.9	525.4	513.7	496.7	477.4	453.7	423.2	404.7
80°	516.0	517.3	521.2	523.3	520.2	509.2	492.6	474.5	451.4	421.1	402.4
82.5°	511.9	511.5	515.4	517.3	514.2	502.7	487.8	469.9	448.1	417.6	399.3
85°	504.0	504.8	507.9	509.6	506.1	495.7	481.3	465.3	443.5	413.6	395.1
87.5°	496.5	496.9	499.0	500.9	497.3	487.4	474.1	458.9	437.9	408.6	390.6
90°	487.2	487.4	489.6	491.1	488.0	478.6	466.4	451.6	431.9	403.0	384.9
92.5°	478.4	478.0	479.7	480.3	477.6	468.5	457.4	443.7	424.6	396.2	378.7
95°	467.0	466.8	468.2	467.8	464.9	457.0	447.1	435.0	416.1	388.9	371.6
97.5°	454.3	454.5	455.4	455.0	451.8	444.6	436.9	424.8	407.4	380.4	363.8
100°	440.2	440.8	442.1	440.8	438.1	432.7	424.6	414.6	397.4	371.9	355.4
102.5°	428.4	426.7	426.3	426.1	423.4	418.6	412.4	403.6	387.6	362.5	346.7
105°	412.8	411.7	411.5	409.2	408.2	404.3	399.1	391.2	376.8	353.2	337.8
107.5°	396.4	396.6	395.7	393.0	391.6	388.9	386.0	378.9	365.2	342.8	328.6
110°	381.6	380.6	378.3	377.0	376.0	373.7	371.9	366.5	353.8	332.8	318.7

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

Scaled Data Report

REPORT NUMBER: P1224012
CATALOG NUMBER: FFX-CLB-20-750-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	363.3	364.0	361.3	*360.4*	358.8	358.6	357.3	353.0	341.7	322.2	308.9
115°	346.9	346.5	343.8	*342.1*	341.5	341.9	342.8	339.7	329.3	310.8	298.5
117.5°	328.9	327.6	325.7	*324.1*	323.2	324.9	326.8	325.3	316.6	299.1	287.5
120°	309.5	309.7	307.0	*305.4*	305.6	308.3	310.8	309.9	301.6	286.1	275.7
122.5°	291.5	290.4	288.1	*286.5*	287.9	290.8	293.7	293.5	286.3	271.1	261.8
125°	271.7	271.5	269.2	*267.6*	268.8	272.1	275.7	276.1	269.2	256.6	247.2
127.5°	253.0	252.4	252.0	*250.1*	250.9	255.5	258.0	257.8	251.8	240.1	232.0
130°	235.2	235.0	232.5	*231.6*	232.7	236.4	238.9	238.5	233.7	223.5	216.3
132.5°	217.1	216.3	215.2	*214.0*	214.8	217.9	221.2	220.8	215.2	205.5	199.6
135°	199.2	198.6	197.8	*196.9*	197.6	200.7	203.6	202.8	198.0	189.3	183.4
137.5°	182.8	182.2	181.1	*180.1*	180.9	183.4	185.3	184.7	180.7	172.4	166.8
140°	165.8	166.2	164.9	*164.1*	164.5	167.0	168.5	167.6	163.3	156.4	151.9
142.5°	150.2	150.2	149.6	*149.4*	150.0	151.2	152.5	150.8	147.9	140.8	137.1
145°	135.2	135.4	135.2	*134.8*	135.0	136.5	136.7	136.1	132.7	127.6	123.4
147.5°	121.1	121.7	121.3	*121.3*	121.5	122.2	123.0	121.5	118.6	114.0	111.1
150°	108.0	108.4	108.4	*108.0*	108.0	108.9	108.9	107.8	105.5	101.8	99.1
152.5°	96.6	96.8	96.8	*96.4*	96.6	96.8	96.4	95.1	93.3	90.4	88.3
155°	86.2	86.6	86.0	*86.2*	85.6	85.8	85.6	84.8	82.7	80.2	78.9
157.5°	76.9	77.5	77.1	*77.1*	76.7	76.4	76.2	75.4	74.0	71.9	70.4
160°	69.4	69.8	69.2	*69.2*	68.8	68.8	67.9	67.5	66.1	64.2	63.4
162.5°	62.9	62.9	62.7	*62.9*	62.7	62.1	61.7	60.9	59.6	58.2	57.5
165°	57.8	57.5	57.5	*57.3*	57.1	56.7	56.1	55.7	54.4	53.2	52.8
167.5°	53.8	53.6	53.4	*53.2*	52.8	52.6	51.9	51.5	50.5	49.4	49.0
170°	50.5	50.5	50.1	*49.9*	49.6	49.2	48.6	48.0	47.2	46.5	46.1
172.5°	47.6	47.6	47.4	*47.2*	46.9	46.5	45.9	45.5	44.9	44.2	43.8
175°	45.5	45.5	45.3	*44.9*	44.7	44.2	43.8	43.4	42.8	42.4	42.2
177.5°	43.8	43.8	43.8	*43.4*	43.2	42.8	42.4	42.0	41.8	41.3	41.3
180°	41.8	41.8	41.8	*41.8*	41.8	41.8	41.8	41.8	41.8	41.8	41.8

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

Scaled Data Report

REPORT NUMBER: P1224012
CATALOG NUMBER: FFX-CLB-20-750-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
2.5°	24.7	23.5	22.4	20.8	19.3	18.1	17.2	16.6	16.2	15.8
5°	29.5	27.2	24.9	22.4	20.2	18.1	16.4	15.2	14.5	14.5
7.5°	40.3	36.8	32.8	29.3	26.6	23.9	21.4	19.9	19.1	18.7
10°	52.8	47.6	43.6	39.3	34.5	31.2	28.3	26.4	25.3	25.6
12.5°	67.7	61.3	56.3	49.9	44.7	39.5	36.4	33.7	32.4	32.2
15°	84.3	76.9	69.6	61.9	55.1	49.0	44.5	40.9	38.8	38.6
17.5°	101.8	92.4	82.7	74.0	65.0	57.5	51.3	47.2	44.9	44.9
20°	119.5	108.9	97.4	86.0	75.2	66.1	58.8	53.4	50.5	50.1
22.5°	139.8	126.3	112.6	98.7	86.4	75.0	65.6	59.2	56.1	55.5
25°	162.0	146.0	129.6	113.2	98.1	84.3	73.5	66.3	61.9	61.3
27.5°	185.1	165.8	146.5	127.3	109.7	94.5	81.4	72.1	67.7	67.1
30°	207.7	186.6	164.1	141.7	121.7	104.3	89.3	78.5	73.1	72.3
32.5°	230.0	205.9	181.1	156.2	134.4	114.0	96.6	85.0	78.3	77.5
35°	251.2	226.2	197.4	170.6	145.6	123.8	104.3	90.8	83.3	82.5
37.5°	271.9	243.7	213.3	183.8	156.8	132.1	111.3	96.2	87.9	87.0
40°	291.7	260.3	227.3	196.1	166.6	140.4	117.4	101.0	91.6	90.6
42.5°	306.8	274.6	240.1	206.5	175.1	146.7	122.8	104.7	94.5	93.1
45°	322.0	287.5	251.2	215.6	182.6	152.7	127.1	108.0	97.2	95.6
47.5°	334.5	298.5	260.1	223.1	188.8	157.9	130.9	110.3	98.9	97.2
50°	346.3	308.3	268.4	230.0	194.4	162.5	134.0	112.2	99.9	98.3
52.5°	355.4	316.4	275.0	235.4	199.0	165.8	136.5	113.4	100.5	98.7
55°	363.1	323.0	280.4	239.5	202.5	168.7	138.4	114.0	100.5	98.7
57.5°	369.6	328.2	284.8	243.3	205.2	170.6	139.6	114.3	99.9	98.1
60°	375.2	333.0	288.3	246.2	207.7	172.4	140.4	114.3	99.3	97.2
62.5°	379.7	336.3	291.0	248.5	209.6	173.9	140.8	113.8	98.1	96.0
65°	382.4	338.6	292.7	249.7	210.6	174.3	140.8	113.2	96.8	94.7
67.5°	*384.7*	*340.1*	*293.7*	*250.3*	*211.3*	*174.7*	*140.6*	*112.2*	*95.6*	*93.5*
70°	385.8	340.7	294.2	250.7	211.7	174.5	140.0	111.3	94.3	91.8
72.5°	386.0	340.9	294.0	250.7	211.7	174.5	139.4	110.1	92.9	90.6
75°	385.6	340.3	293.3	250.5	211.5	173.9	138.8	109.1	91.6	89.1
77.5°	384.3	339.0	292.3	249.7	210.4	173.3	137.5	107.8	90.2	87.9
80°	382.2	337.0	290.6	248.2	209.2	172.0	136.5	106.6	88.9	86.6
82.5°	379.1	334.3	288.6	246.4	207.9	170.6	135.2	105.3	87.7	85.4
85°	375.4	330.9	285.4	244.1	206.1	168.9	133.6	103.9	86.4	84.1
87.5°	370.2	326.8	282.1	241.4	203.6	166.8	131.7	102.6	85.4	83.1
90°	365.2	322.2	278.6	238.5	201.3	164.9	130.0	101.2	84.6	82.3
92.5°	359.4	316.8	274.2	235.2	198.2	162.5	128.4	99.9	83.7	81.6
95°	352.7	311.0	269.6	231.2	195.3	160.0	126.3	98.7	82.9	81.0
97.5°	345.3	304.8	264.7	227.1	191.7	157.3	124.4	97.6	82.5	80.4
100°	337.6	297.7	259.3	222.9	188.2	154.4	122.6	96.6	82.3	80.4
102.5°	328.9	291.3	253.9	218.8	184.7	151.7	120.7	96.0	82.3	80.4
105°	320.5	283.8	248.0	214.2	181.1	148.9	119.0	95.6	82.5	80.8
107.5°	311.6	276.7	242.2	209.4	177.2	146.2	117.6	95.1	82.9	81.2
110°	303.3	269.9	236.8	204.8	173.7	143.8	116.1	94.9	83.3	81.8

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

Scaled Data Report

REPORT NUMBER: P1224012
CATALOG NUMBER: FFX-CLB-20-750-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	294.2	262.4	230.8	199.8	169.9	140.8	114.7	94.5	83.7	82.5
115°	284.6	254.5	224.8	194.9	165.6	138.1	113.2	94.3	84.1	82.9
117.5°	274.2	246.0	217.5	189.0	161.0	134.8	111.1	93.5	84.1	82.9
120°	263.0	237.0	209.6	182.8	155.8	130.9	109.1	92.4	83.7	82.7
122.5°	250.7	226.4	200.5	174.9	150.0	126.3	105.9	90.6	82.7	81.6
125°	237.2	214.6	191.1	166.4	142.7	121.1	102.2	88.5	81.0	80.2
127.5°	223.1	202.3	179.9	157.5	135.9	115.5	98.3	85.4	78.7	77.9
130°	207.3	188.6	168.3	147.5	127.8	109.1	93.5	81.8	75.8	75.0
132.5°	192.2	175.1	156.8	138.4	119.2	102.8	88.3	77.9	72.7	71.9
135°	176.4	161.4	145.0	127.6	111.3	96.0	83.1	74.0	69.2	68.6
137.5°	161.0	148.3	133.0	117.6	103.2	89.3	78.1	70.2	65.9	65.4
140°	146.7	134.8	121.9	108.4	95.1	83.1	73.3	66.1	62.5	61.9
142.5°	132.7	122.6	110.9	99.5	87.3	77.1	68.6	62.1	59.2	58.8
145°	119.7	111.1	101.0	90.6	80.2	71.3	64.0	58.6	56.1	55.9
147.5°	107.4	100.3	91.4	82.7	74.0	66.5	59.8	55.7	53.4	53.2
150°	96.2	89.7	82.7	75.2	67.9	61.3	56.3	52.6	50.7	50.5
152.5°	85.6	80.6	74.8	68.8	62.5	57.3	52.8	50.1	48.6	48.4
155°	76.4	72.5	67.7	62.5	57.8	53.6	50.1	48.0	46.7	46.7
157.5°	68.8	65.4	61.9	57.8	53.8	50.5	48.0	46.1	45.1	45.1
160°	62.1	59.2	56.5	53.4	50.7	48.0	46.1	44.7	43.8	43.8
162.5°	56.5	54.4	52.4	50.1	47.8	46.1	44.5	43.4	43.0	42.8
165°	51.9	50.7	49.0	47.4	45.9	44.5	43.4	42.8	42.4	42.4
167.5°	48.4	47.6	46.3	45.3	44.2	43.2	42.6	42.2	42.0	42.0
170°	45.7	45.1	44.2	43.6	43.0	42.4	42.0	41.8	41.5	41.5
172.5°	43.6	43.0	42.6	42.4	42.0	41.8	41.5	41.3	41.3	41.3
175°	42.2	41.8	41.8	41.5	41.3	41.3	41.1	41.1	41.1	41.3
177.5°	41.1	41.1	41.1	41.1	41.1	41.3	41.3	41.3	41.5	41.5
180°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8

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: SP1-2501-332-5

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

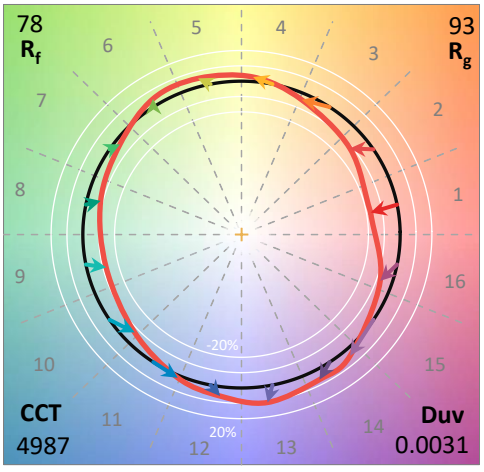
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-5
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-100-750-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	4987	CRI (Ra):	75.8		
CIE u':	0.2094	R1:	71.6	R9:	-30.4
CIE v':	0.4882	R2:	82.8	R10:	59.9
Duv:	0.0031	R3:	91.2	R11:	70.9
CIE x:	0.3461	R4:	73.8	R12:	51.2
CIE y:	0.3586	R5:	73.0	R13:	74.2
CIE z:	0.2954	R6:	76.1	R14:	95.3
Peak Wavelength (nm):	450	R7:	82.9	R15:	63.7
Dominant Wavelength (nm):	570	R8:	54.9		
Purity:	11.4				

Rf:	78.3
Rg:	93.4



Test Conditions

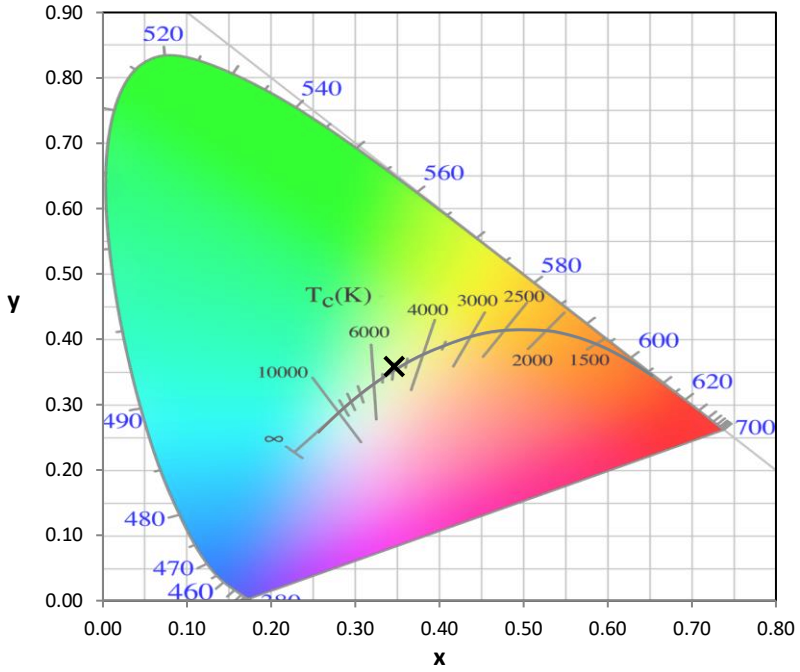
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

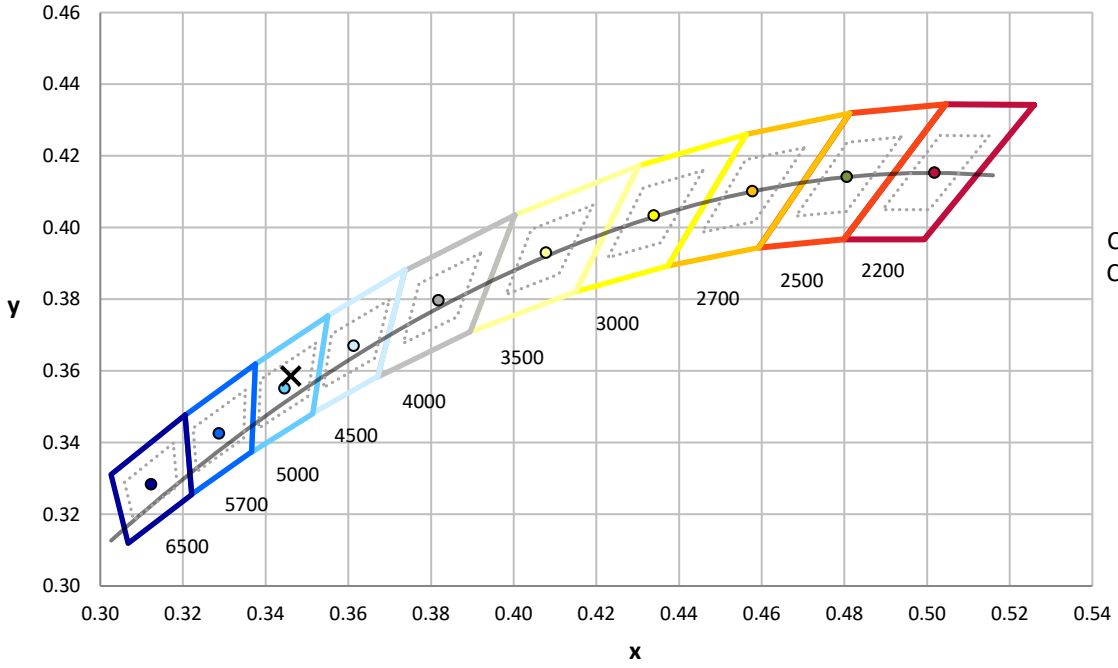
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-5

CIE 1931 Chromaticity Diagram



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

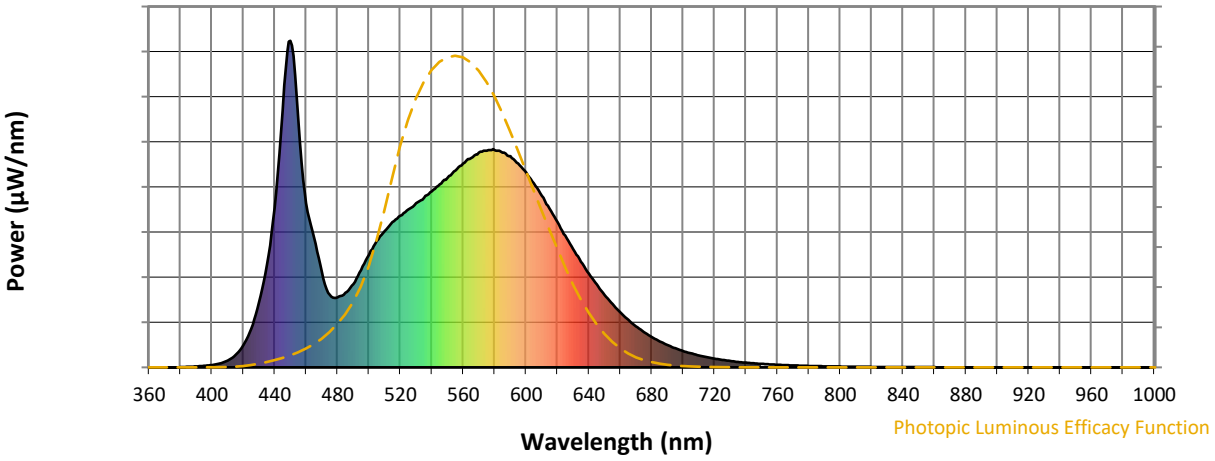


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

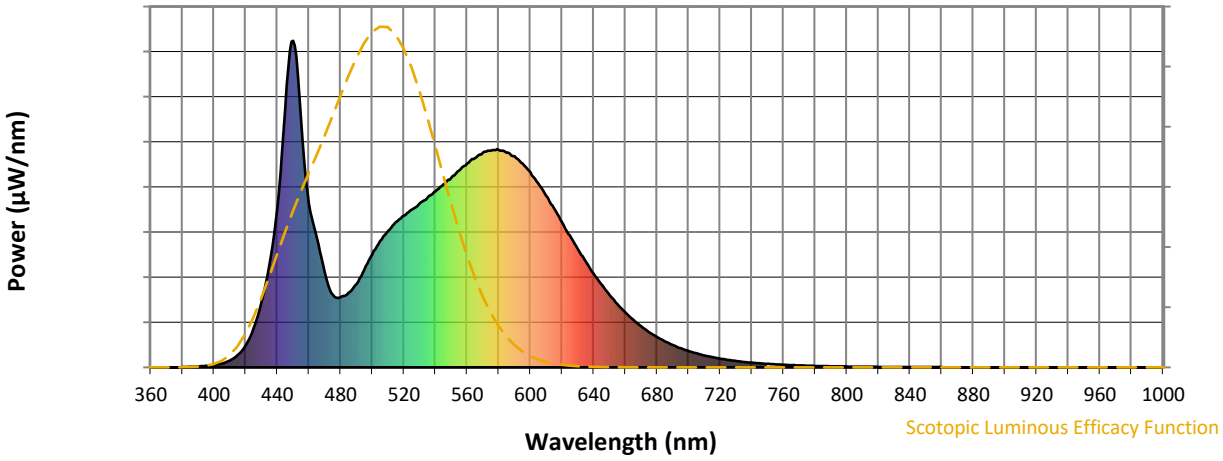


Photopic Lumens: NR

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Scotopic Flux vs. Wavelength

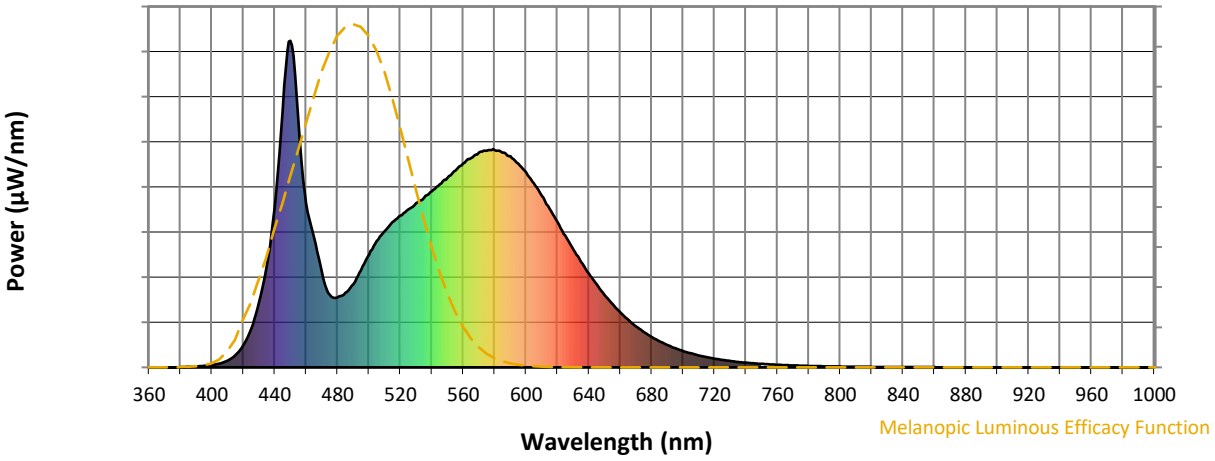


Scotopic Lumens: NR **S/P: 1.87**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.92**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

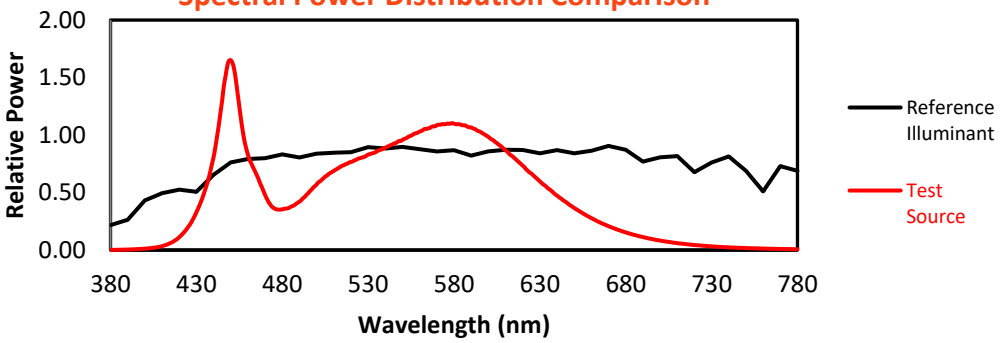
REPORT NUMBER: SP1-2501-332-5

TM-30-18

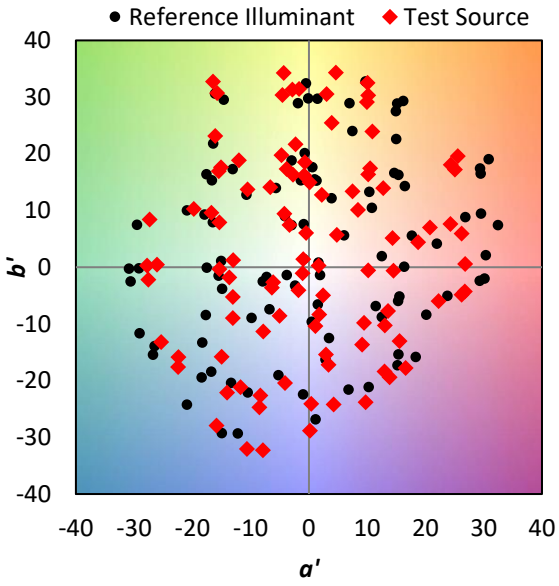
Summary

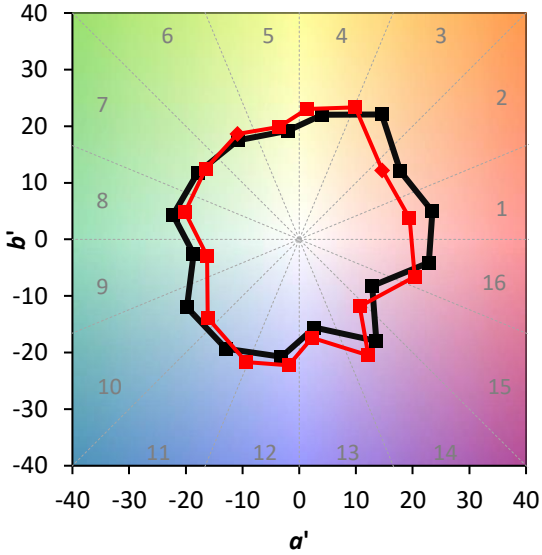
R_f = 78.3
R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

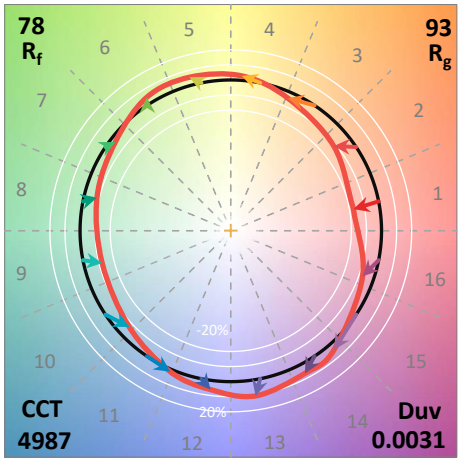
Spectral Power Distribution Comparison

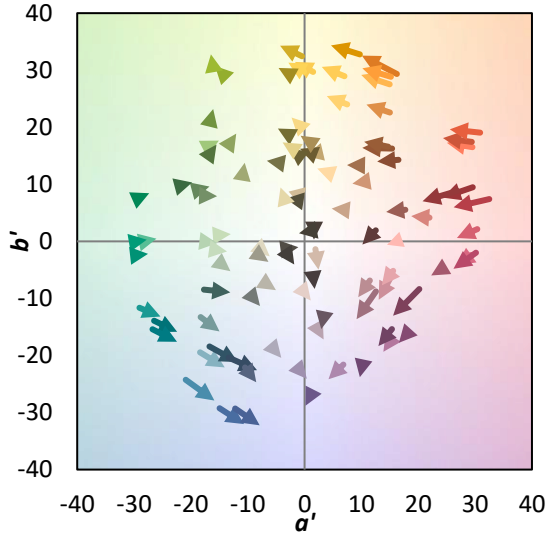


Color Vector Graphics







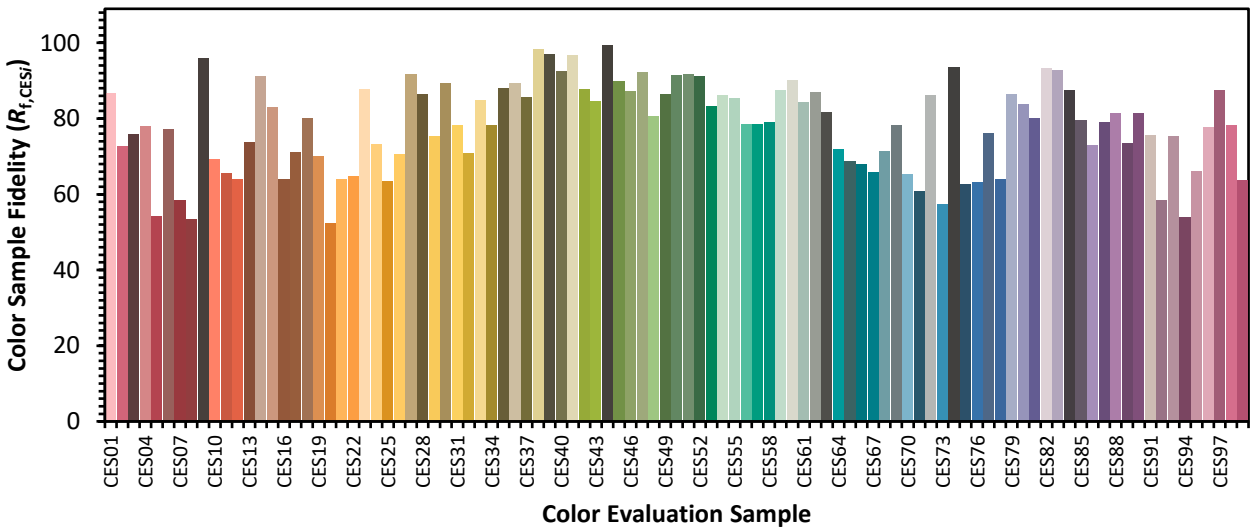


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

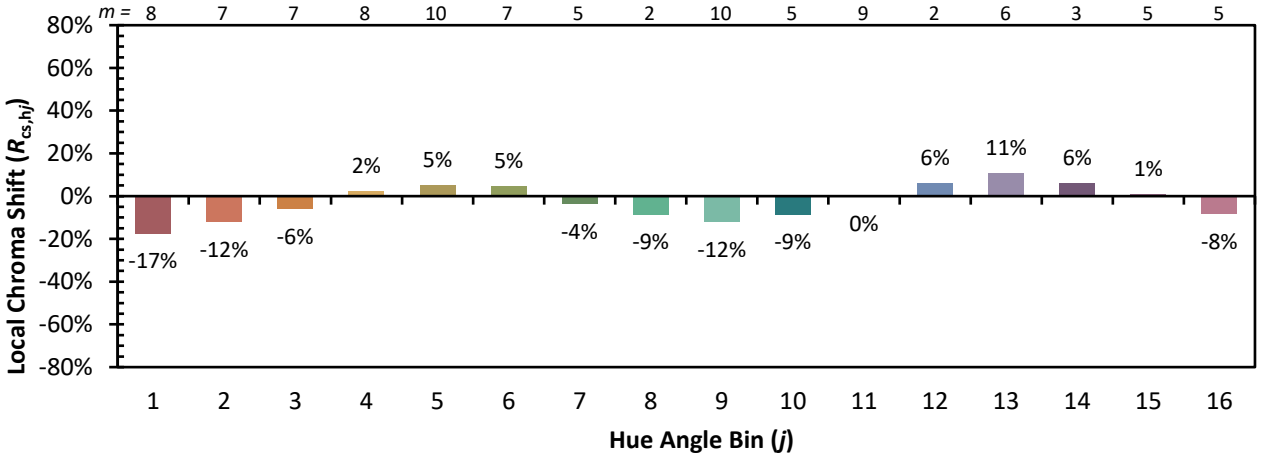
CES01 = 85	CES26 = 71	CES51 = 92	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 93
CES08 = 38	CES33 = 85	CES58 = 79	CES83 = 93
CES09 = 29	CES34 = 78	CES59 = 88	CES84 = 87
CES10 = 73	CES35 = 88	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 89	CES61 = 84	CES86 = 73
CES12 = 61	CES37 = 86	CES62 = 87	CES87 = 79
CES13 = 41	CES38 = 98	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 74
CES15 = 70	CES40 = 93	CES65 = 69	CES90 = 81
CES16 = 46	CES41 = 97	CES66 = 68	CES91 = 76
CES17 = 49	CES42 = 88	CES67 = 66	CES92 = 58
CES18 = 55	CES43 = 85	CES68 = 71	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 78	CES94 = 54
CES20 = 64	CES45 = 90	CES70 = 65	CES95 = 66
CES21 = 85	CES46 = 87	CES71 = 61	CES96 = 78
CES22 = 77	CES47 = 92	CES72 = 86	CES97 = 88
CES23 = 91	CES48 = 81	CES73 = 57	CES98 = 78
CES24 = 90	CES49 = 86	CES74 = 93	CES99 = 64
CES25 = 71	CES50 = 91	CES75 = 63	

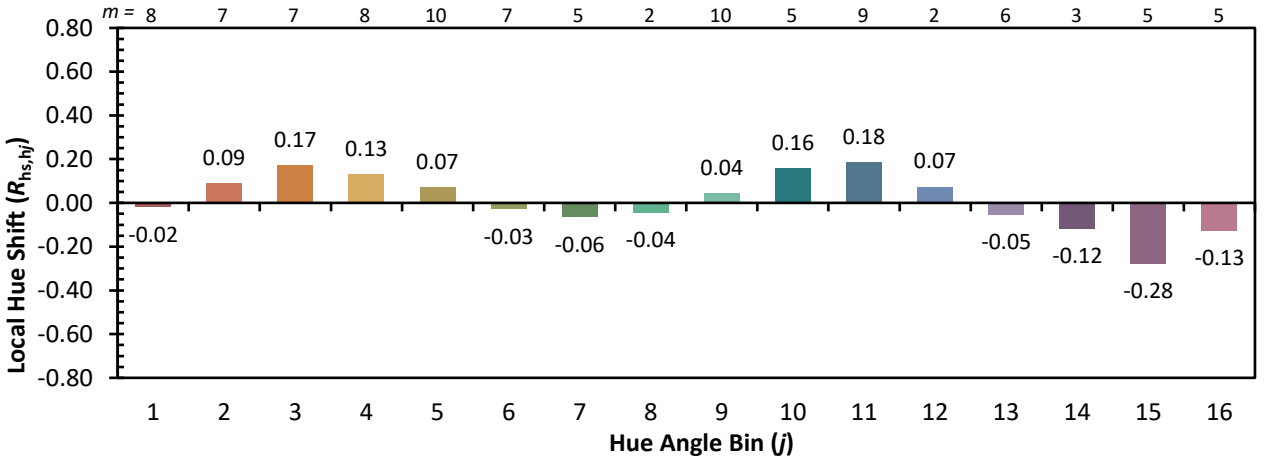


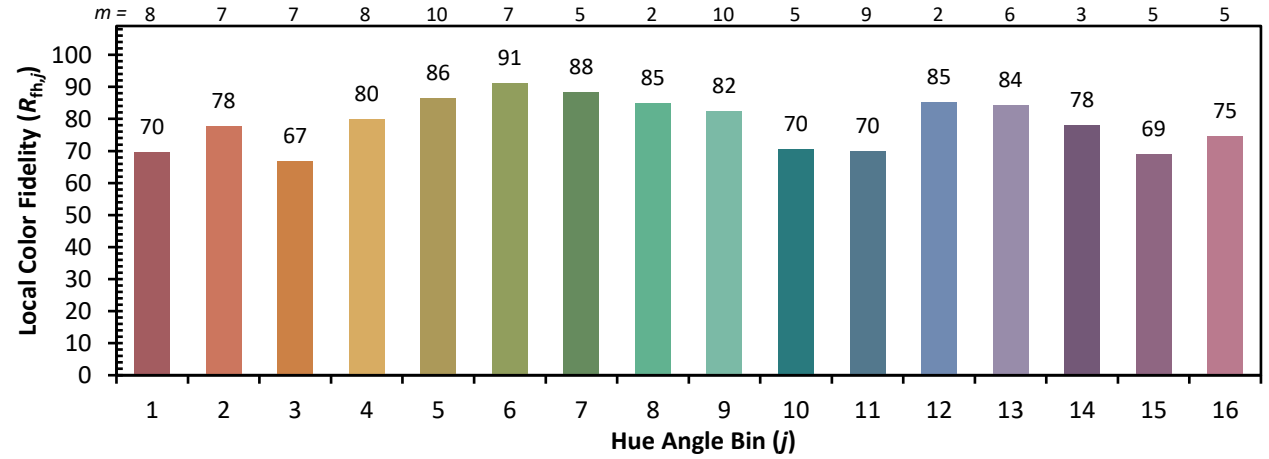
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



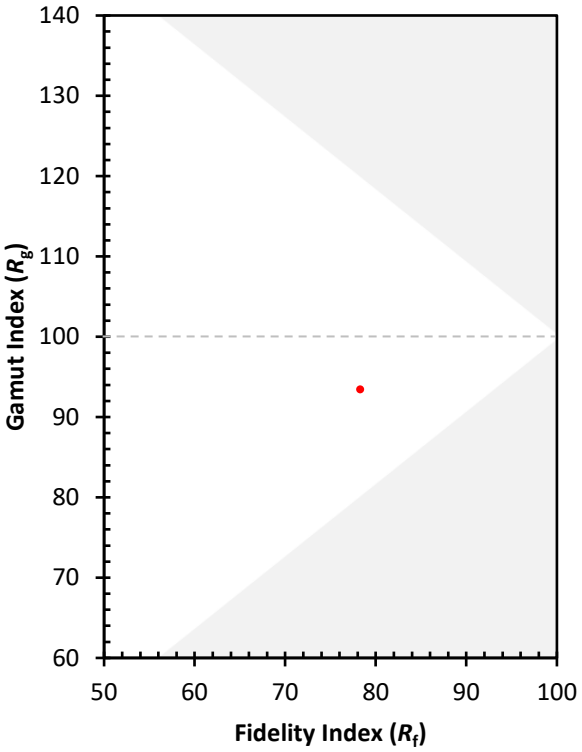


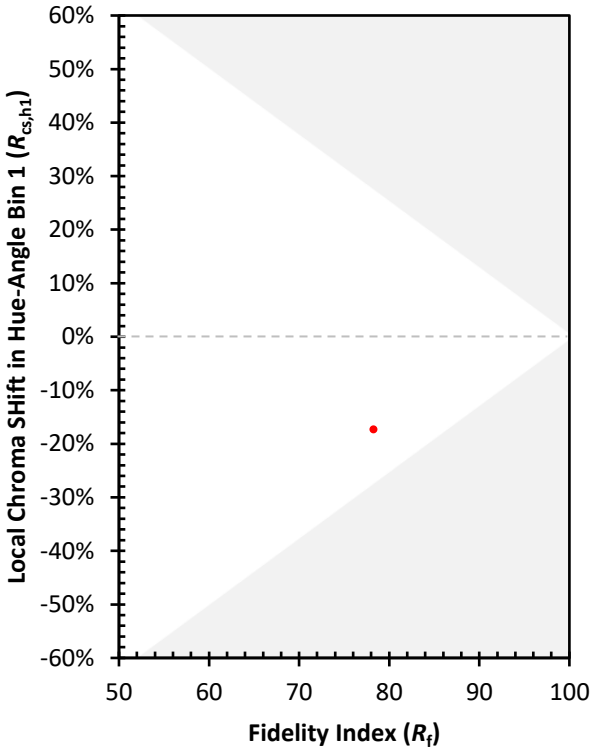


REPORT NUMBER: SP1-2501-332-5

TM-30-18

Measure Comparisons





(END OF REPORT)