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: P1223904

Luminaire Tested: **FFX-CLB-20-730-U-VM9-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:	P1223904
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-730-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3109 lumens
Efficiency:	N/A
Efficacy:	157.0 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

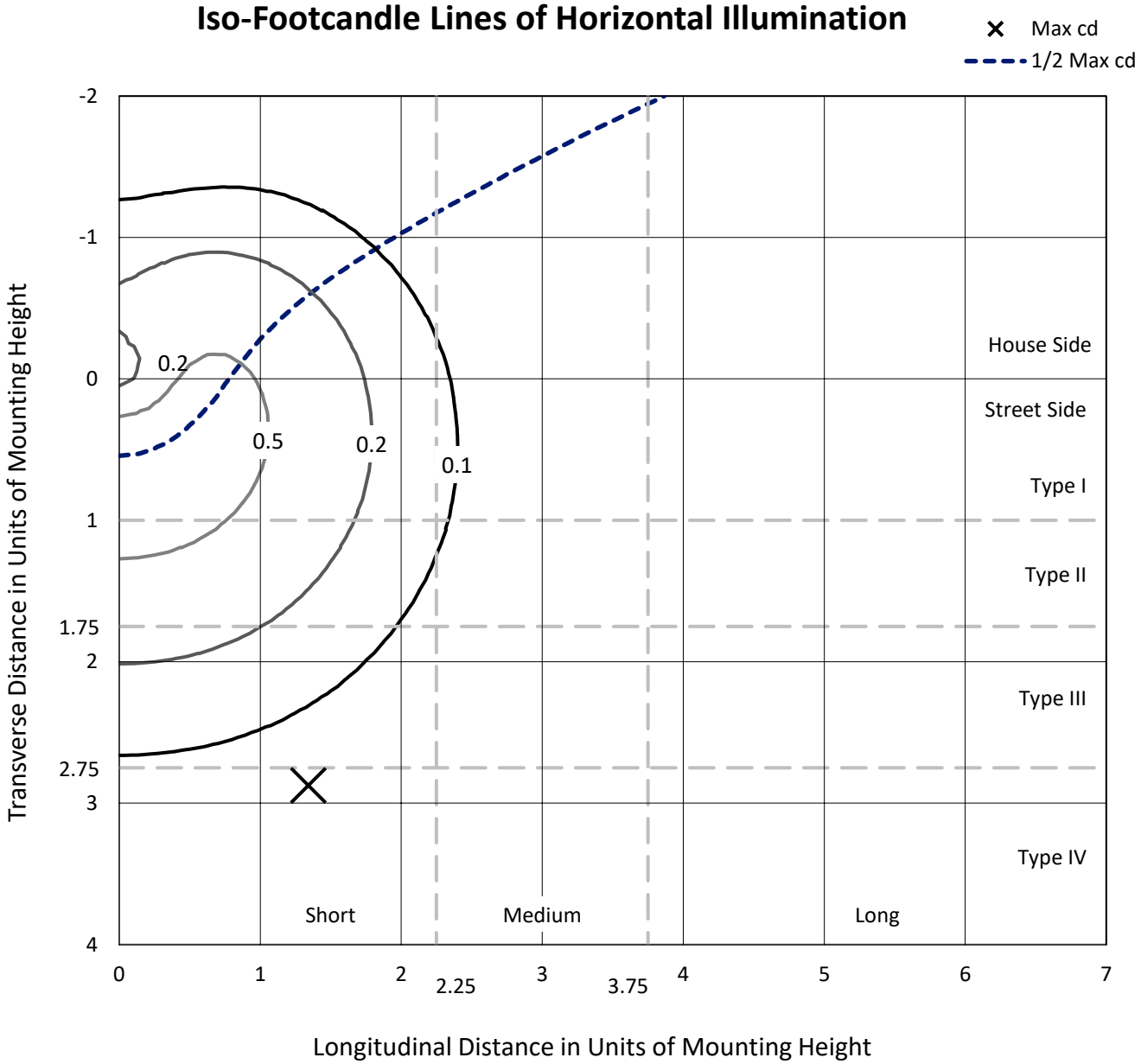


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223904
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T4

Iso-Footcandle Lines of Horizontal Illumination



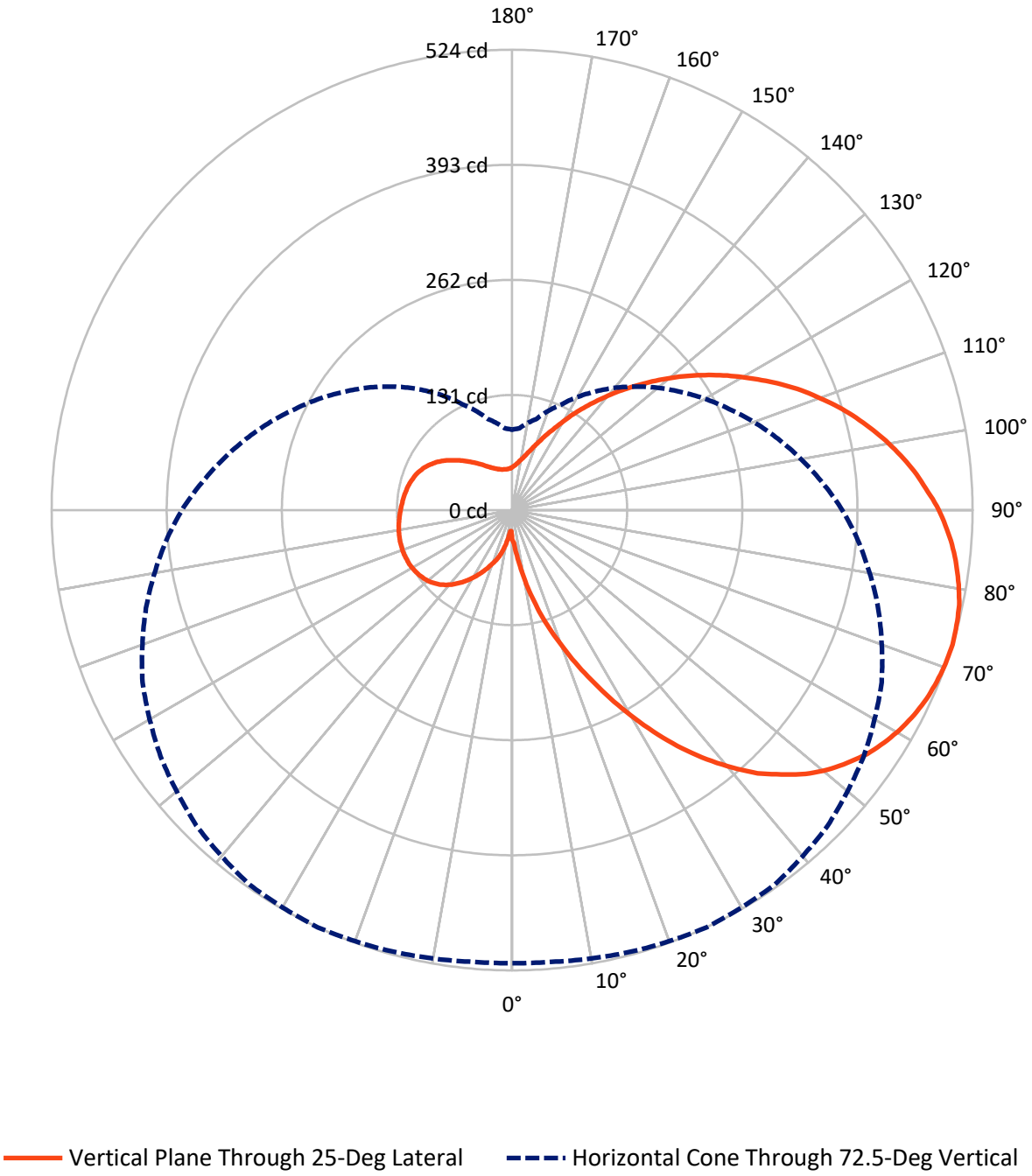
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1223904
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T4

Luminous Intensity Polar Plot



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

Scaled Data Report

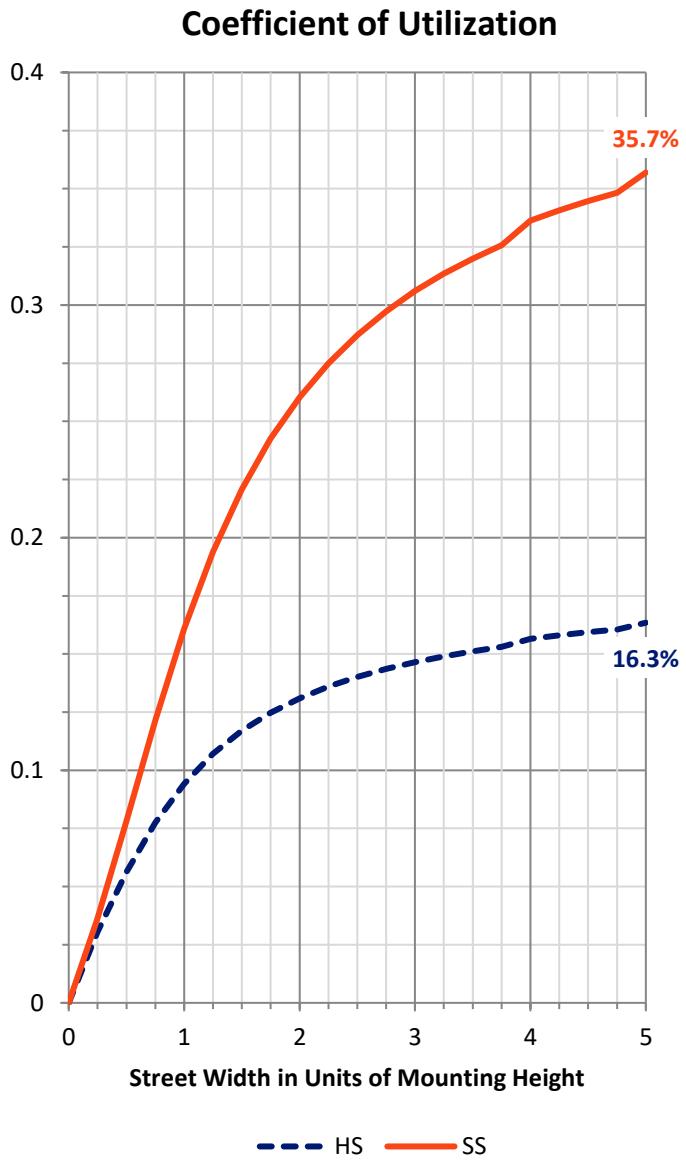
REPORT NUMBER: P1223904
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	560.1	428.7	988.8
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	1266.9	853.3	2120.2
	% Fixture	40.7	27.4	68.2
Total	Lumens	1827.0	1281.9	3109.0
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	26.4	0.8
20°-30°	71.9	2.3
30°-40°	142.5	4.6
40°-50°	222.4	7.2
50°-60°	291.5	9.4
60°-70°	340.2	10.9
70°-80°	365.0	11.7
80°-90°	362.6	11.7
90°-100°	336.4	10.8
100°-110°	293.0	9.4
110°-120°	237.0	7.6
120°-130°	174.5	5.6
130°-140°	115.4	3.7
140°-150°	68.3	2.2
150°-160°	35.9	1.2
160°-170°	16.6	0.5
170°-180°	4.8	0.2
0°-90°	1827.0	58.8
0°-180°	3109.0	100.0



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

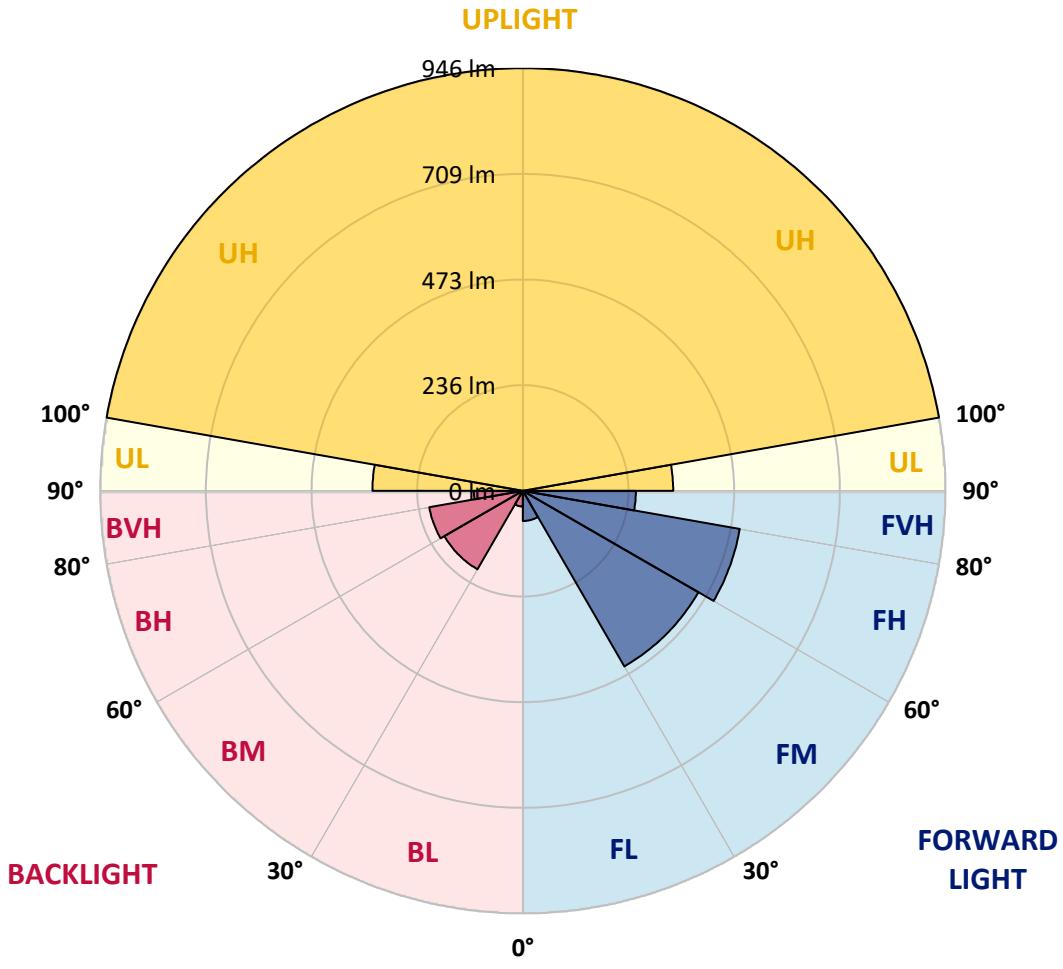
Scaled Data Report

REPORT NUMBER: P1223904
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	67.5	2.2			
FM	(30°-60°)	453.7	14.6			
FH	(60°-80°)	492.8	15.9			G0/660
FVH	(80°-90°)	252.8	8.1			G3/500
BL	(0°-30°)	35.2	1.1	B0/110		
BM	(30°-60°)	202.7	6.5	B0/220		
BH	(60°-80°)	212.5	6.8	B1/500		G1/500
BVH	(80°-90°)	109.8	3.5			G2/225
UL	(90°-100°)	336.4	10.8		U3/500	
UH	(100°-180°)	945.5	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: P1223904
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	33.8	33.8	33.8	*33.8*	33.8	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	36.3	36.3	36.9	*37.1*	37.3	37.3	37.5	37.3	36.5	35.4	34.8
5°	49.5	49.1	48.9	*49.1*	49.1	48.2	47.0	44.7	43.0	40.3	39.2
7.5°	66.3	65.9	65.2	*64.6*	64.6	62.5	60.4	58.5	55.6	51.8	50.6
10°	85.8	85.0	84.1	*82.9*	81.4	79.5	76.8	73.6	69.6	65.7	63.1
12.5°	104.9	104.7	104.3	*102.4*	99.6	98.0	95.0	90.6	85.6	80.1	78.0
15°	126.9	125.9	125.2	*123.8*	122.1	118.7	113.9	109.7	103.8	96.3	93.8
17.5°	147.3	146.8	145.6	*145.2*	142.4	138.9	133.4	127.1	120.0	113.1	109.3
20°	169.5	170.5	169.1	*167.8*	163.0	159.4	154.4	148.3	139.7	129.8	125.9
22.5°	194.2	195.3	193.0	*193.0*	189.0	183.1	176.0	168.9	158.2	147.9	142.8
25°	223.0	223.4	219.8	*218.4*	215.4	209.6	201.0	192.6	180.2	167.2	161.3
27.5°	250.2	251.1	249.0	*247.1*	242.3	236.6	227.2	217.3	203.3	187.7	181.2
30°	281.1	279.4	278.6	*275.2*	270.2	264.3	253.8	242.9	226.8	208.5	200.5
32.5°	308.4	307.1	307.7	*305.0*	297.7	291.2	281.3	268.1	249.2	230.1	221.1
35°	336.5	337.1	336.3	*333.3*	328.9	320.3	306.9	292.0	273.1	250.7	241.0
37.5°	365.2	363.7	362.7	*360.2*	355.8	346.1	332.9	316.1	294.3	270.6	259.9
40°	389.9	391.0	389.7	*385.5*	381.6	370.9	356.4	337.3	314.9	289.5	277.1
42.5°	413.4	413.0	412.0	*409.7*	404.2	392.9	378.6	359.1	333.7	305.6	292.6
45°	432.3	432.7	432.7	*429.4*	424.4	414.1	397.7	377.8	350.7	321.1	307.5
47.5°	450.4	451.0	450.6	*449.1*	443.6	431.5	414.9	394.4	365.6	335.2	319.9
50°	466.3	466.3	466.1	*464.8*	459.6	447.8	430.9	408.8	379.0	346.9	331.8
52.5°	479.5	479.3	479.5	*478.1*	472.6	461.9	444.3	420.8	391.0	356.8	342.1
55°	490.0	489.4	490.8	*490.2*	485.4	473.4	454.8	431.9	401.1	366.2	350.7
57.5°	498.4	498.2	500.1	*499.4*	494.6	482.7	464.2	440.9	409.5	374.0	357.0
60°	505.3	504.9	507.4	*507.4*	502.6	490.6	472.4	447.8	416.2	380.1	362.9
62.5°	510.1	510.4	512.7	*513.5*	509.3	497.1	478.1	453.9	421.6	384.9	367.5
65°	513.5	513.9	516.6	*518.3*	514.1	502.2	482.5	458.3	426.0	388.9	371.1
67.5°	515.6	515.8	519.6	*521.3*	517.9	505.3	486.2	461.5	429.0	391.4	373.8
70°	516.4	516.6	520.8	*523.4*	520.0	507.2	487.9	463.2	430.9	393.1	375.3
72.5°	*515.8*	*516.2*	*520.6*	*524.0*	*520.6*	*508.0*	*488.5*	*464.0*	*431.3*	*395.0*	*375.7*
75°	513.7	514.1	519.2	*522.5*	520.0	507.0	487.5	463.2	430.6	393.3	375.1
77.5°	510.1	510.8	516.0	*520.2*	517.3	504.9	485.4	460.8	428.3	391.2	372.7
80°	504.9	505.1	511.0	*515.2*	513.1	500.7	481.2	456.9	424.6	387.6	369.6
82.5°	498.2	499.0	504.7	*509.3*	507.4	494.6	475.7	451.8	419.7	383.2	365.0
85°	491.1	491.9	497.1	*502.2*	499.9	487.9	469.0	445.3	413.2	377.2	359.7
87.5°	482.5	483.1	488.1	*493.4*	491.3	479.3	461.1	437.8	406.5	371.5	353.7
90°	473.0	473.6	478.5	*483.5*	480.8	469.5	451.6	428.8	398.3	363.9	346.7
92.5°	462.9	463.2	468.6	*471.3*	469.9	459.8	442.2	420.2	389.7	356.2	340.0
95°	451.6	451.6	456.9	*459.8*	457.3	447.8	431.3	409.2	379.7	348.2	331.6
97.5°	439.2	439.7	443.6	*446.6*	445.7	435.9	420.2	399.2	370.9	339.6	323.9
100°	426.4	426.4	430.0	*432.5*	430.6	422.7	407.8	388.5	359.7	330.4	315.1
102.5°	413.0	412.8	415.8	*417.6*	416.4	409.0	395.2	376.1	349.3	320.7	306.3
105°	398.1	397.5	400.4	*402.5*	401.3	394.8	383.0	364.6	338.6	311.3	297.4
107.5°	382.2	383.2	384.9	*386.2*	385.1	379.5	368.3	352.0	327.4	301.4	288.0
110°	367.1	367.7	367.9	*369.4*	369.2	364.6	355.1	338.8	315.5	290.9	277.9

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

Scaled Data Report

REPORT NUMBER: P1223904
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	351.8	351.6	351.8	*352.8*	352.8	348.2	339.2	324.9	303.7	279.8	267.9
115°	335.2	334.4	334.6	*334.8*	335.6	332.1	324.3	310.9	290.1	268.9	257.2
117.5°	318.0	317.8	317.4	*316.7*	316.7	315.3	308.6	296.6	276.9	255.9	246.1
120°	301.6	300.8	299.8	*299.1*	299.5	297.9	292.4	280.5	263.0	244.2	234.3
122.5°	282.8	283.4	282.8	*281.9*	282.1	280.5	275.8	265.8	248.4	230.3	221.5
125°	266.6	266.4	265.6	*264.3*	264.3	263.7	258.6	249.8	234.3	217.1	208.9
127.5°	248.6	248.8	247.9	*247.3*	247.7	246.5	243.1	233.0	219.4	204.1	196.1
130°	231.6	231.4	231.2	*229.9*	230.9	228.6	225.7	217.3	204.3	191.3	184.0
132.5°	215.6	214.4	213.5	*213.3*	213.1	212.9	209.3	202.0	191.1	178.1	171.0
135°	199.7	198.6	197.6	*197.2*	197.6	196.5	193.4	187.3	177.2	164.7	159.2
137.5°	183.3	182.9	182.9	*181.9*	181.9	181.0	178.3	173.3	163.8	152.9	147.5
140°	168.6	167.8	167.4	*166.8*	167.4	166.6	163.6	158.8	150.8	141.4	136.1
142.5°	153.5	152.7	153.3	*152.7*	152.1	151.7	149.1	145.4	138.4	129.8	125.4
145°	139.5	139.5	139.1	*139.3*	138.9	138.4	135.9	132.4	126.5	118.5	115.4
147.5°	126.3	126.7	126.3	*126.7*	126.7	125.0	123.3	120.4	115.0	108.7	105.3
150°	113.9	114.5	114.1	*113.9*	114.1	113.3	111.0	109.3	104.5	99.0	95.7
152.5°	103.4	103.8	103.8	*103.4*	103.2	102.8	100.5	98.2	94.4	90.2	87.9
155°	93.6	93.6	93.8	*94.0*	93.3	92.1	91.2	89.4	86.0	82.2	79.9
157.5°	85.4	85.2	85.4	*85.2*	85.0	83.7	82.4	81.0	78.2	74.9	73.6
160°	77.6	77.6	77.8	*77.6*	76.8	76.1	75.1	73.8	71.5	69.2	67.5
162.5°	71.3	71.3	71.3	*71.1*	70.3	70.1	68.8	67.5	65.7	63.8	62.5
165°	65.9	65.9	65.7	*65.7*	65.2	64.6	63.6	62.5	60.8	59.4	58.5
167.5°	61.5	61.3	61.0	*60.8*	60.6	60.0	58.9	58.3	57.1	55.8	55.2
170°	57.7	57.7	57.5	*57.5*	57.1	56.4	55.8	55.0	54.1	52.9	52.4
172.5°	54.3	54.3	54.3	*54.3*	53.7	53.5	52.9	52.2	51.6	50.8	50.3
175°	51.8	51.8	51.8	*51.8*	51.4	51.0	50.8	50.1	49.7	49.1	48.9
177.5°	49.9	49.9	49.9	*49.9*	49.7	49.3	49.1	48.7	48.2	48.0	47.8
180°	48.2	48.2	48.2	*48.2*	48.2	48.2	48.2	48.2	48.2	48.2	48.2

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

Scaled Data Report

REPORT NUMBER: P1223904
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	34.2	32.9	31.3	29.4	27.9	26.0	24.1	23.1	22.4	22.0
5°	38.2	35.4	32.9	30.2	28.1	26.2	24.1	22.4	21.6	21.4
7.5°	48.7	44.9	41.1	37.8	34.8	31.9	29.8	28.1	27.1	27.1
10°	61.3	56.0	51.6	47.2	43.2	39.6	36.7	35.0	33.8	33.4
12.5°	75.5	69.2	63.1	58.1	52.2	48.2	44.7	42.4	40.9	40.7
15°	90.4	83.9	76.1	69.2	62.7	56.4	52.2	48.9	47.6	47.6
17.5°	104.7	96.3	87.7	79.3	71.3	64.0	58.1	54.3	52.4	52.0
20°	120.0	109.9	98.8	88.9	79.1	70.5	63.6	58.7	56.2	56.0
22.5°	135.7	124.0	112.0	99.0	87.7	77.4	69.2	63.6	60.4	60.0
25°	153.8	139.5	125.2	111.0	97.3	85.2	75.5	68.6	65.0	64.6
27.5°	173.7	155.9	138.9	122.5	106.6	93.1	81.6	73.6	69.2	69.0
30°	191.9	172.2	152.9	134.0	116.6	100.5	87.7	78.5	73.6	73.0
32.5°	210.2	188.4	166.6	145.8	125.6	108.2	93.8	83.1	77.4	77.0
35°	229.1	204.3	180.6	156.7	135.7	116.0	99.4	87.7	81.6	80.8
37.5°	246.7	220.0	194.0	168.6	144.5	123.1	104.9	92.1	85.2	84.1
40°	262.8	234.1	206.2	178.9	152.9	129.8	110.1	95.9	88.1	87.3
42.5°	277.7	247.3	217.3	187.9	160.7	135.7	114.5	99.0	90.4	89.6
45°	291.8	259.7	227.6	196.3	167.4	141.2	118.7	101.9	92.7	91.5
47.5°	303.7	270.2	235.8	203.5	173.5	145.8	121.9	104.0	94.4	93.1
50°	314.4	279.0	243.5	210.4	178.7	150.0	124.8	105.7	95.2	94.0
52.5°	323.0	287.2	250.2	215.8	183.5	153.3	126.9	107.2	96.1	94.8
55°	331.4	293.9	256.1	220.7	187.1	156.5	128.6	108.0	96.5	95.0
57.5°	338.3	299.5	260.9	224.4	190.7	158.6	130.1	108.4	96.5	94.8
60°	343.4	303.9	264.7	227.6	193.0	160.5	131.1	108.7	96.3	94.6
62.5°	347.8	307.5	267.4	230.3	195.3	161.9	132.2	108.9	95.9	94.2
65°	351.1	310.4	269.8	232.0	196.8	163.2	132.4	108.7	95.2	93.6
67.5°	353.9	312.3	271.2	233.5	197.8	163.8	132.8	108.4	94.8	92.9
70°	354.9	313.2	272.1	234.1	198.4	164.2	132.8	108.0	94.0	92.1
72.5°	*354.7*	*313.2*	*272.3*	*234.3*	*198.6*	*164.5*	*132.6*	*107.4*	*93.3*	*91.5*
75°	354.1	312.5	271.9	234.1	198.4	164.2	132.4	107.0	92.7	91.0
77.5°	352.4	310.9	270.4	233.3	198.0	163.6	131.7	106.6	92.3	90.2
80°	349.5	308.4	268.3	231.4	196.5	163.0	131.1	105.7	91.5	89.8
82.5°	345.3	305.2	265.8	229.7	195.3	161.7	130.3	105.3	91.0	89.4
85°	340.4	301.2	262.4	227.2	193.4	160.5	129.2	104.5	90.6	88.9
87.5°	334.6	296.0	259.1	224.2	191.1	158.8	128.2	103.8	90.4	88.7
90°	328.5	291.2	254.9	221.5	189.2	157.1	127.1	103.4	90.2	88.7
92.5°	321.8	285.9	250.9	217.9	186.7	155.4	126.1	103.0	90.2	88.7
95°	315.1	280.5	246.9	214.8	184.2	153.8	125.0	102.8	90.6	89.1
97.5°	307.1	274.2	242.1	211.4	181.2	151.9	124.2	102.6	90.8	89.6
100°	299.5	267.9	237.0	207.7	178.5	149.8	122.9	102.4	91.2	89.8
102.5°	291.4	261.8	232.0	203.7	175.6	147.5	121.9	102.2	91.7	90.4
105°	283.2	254.4	226.5	199.1	172.0	145.2	120.6	101.9	91.9	90.6
107.5°	274.2	247.5	220.5	194.7	168.4	142.6	118.9	101.5	92.1	90.8
110°	264.9	239.3	214.2	189.6	164.2	139.5	117.3	100.5	91.9	90.8

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

Scaled Data Report

REPORT NUMBER: P1223904
CATALOG NUMBER: FFX-CLB-20-730-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	256.1	231.6	207.2	184.0	159.8	136.3	115.0	99.4	91.2	90.4
115°	245.2	222.8	199.9	177.9	154.8	132.4	112.4	98.0	90.4	89.4
117.5°	235.1	213.5	192.1	171.4	149.6	128.4	109.5	96.1	88.9	88.1
120°	223.8	203.7	183.8	164.0	143.7	123.8	105.9	93.8	87.1	86.4
122.5°	212.7	194.0	175.2	156.5	137.4	118.5	102.4	90.8	85.0	84.3
125°	201.0	183.8	166.1	148.5	130.5	113.1	98.2	87.5	82.2	81.6
127.5°	189.0	173.1	156.5	140.1	123.8	107.6	93.8	84.1	79.1	78.9
130°	176.4	162.1	147.0	131.9	116.8	101.9	89.1	80.5	75.9	75.5
132.5°	165.1	151.9	137.8	123.6	109.3	96.3	84.7	76.8	72.8	72.4
135°	154.0	140.8	128.6	116.0	102.8	90.6	80.3	73.2	69.6	69.2
137.5°	142.6	131.1	119.8	108.0	96.1	85.2	76.1	69.9	66.7	66.3
140°	131.3	121.7	111.4	100.3	90.0	80.1	71.9	66.7	63.8	63.3
142.5°	121.0	111.8	102.6	92.9	83.7	75.3	68.2	63.1	60.6	60.4
145°	111.0	103.0	94.6	86.0	78.0	71.1	64.6	60.4	58.3	58.1
147.5°	101.9	94.8	87.3	79.9	73.0	66.5	61.3	57.7	55.6	55.4
150°	92.9	86.6	80.3	74.0	68.2	62.7	58.1	55.2	53.7	53.3
152.5°	85.0	79.9	74.3	69.0	63.8	59.2	55.6	52.9	51.6	51.4
155°	77.8	73.6	69.0	64.4	60.2	56.4	53.3	51.2	50.1	50.1
157.5°	71.7	68.2	64.4	60.6	57.3	54.1	51.6	49.9	49.1	48.9
160°	66.3	63.1	60.2	57.5	54.3	52.0	50.1	48.7	48.0	47.8
162.5°	61.3	59.2	56.8	54.5	52.2	50.3	48.9	47.8	47.4	47.4
165°	57.7	55.8	53.9	52.2	50.6	49.3	48.0	47.4	47.0	46.8
167.5°	54.5	53.1	51.8	50.6	49.3	48.2	47.4	47.0	46.6	46.6
170°	52.0	51.0	50.1	49.3	48.5	47.6	47.2	46.8	46.6	46.6
172.5°	49.9	49.3	48.7	48.2	47.6	47.2	46.8	46.6	46.6	46.6
175°	48.7	48.2	47.8	47.6	47.4	47.2	47.0	46.8	46.8	46.8
177.5°	47.8	47.6	47.6	47.4	47.4	47.4	47.4	47.4	47.4	47.4
180°	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2

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: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

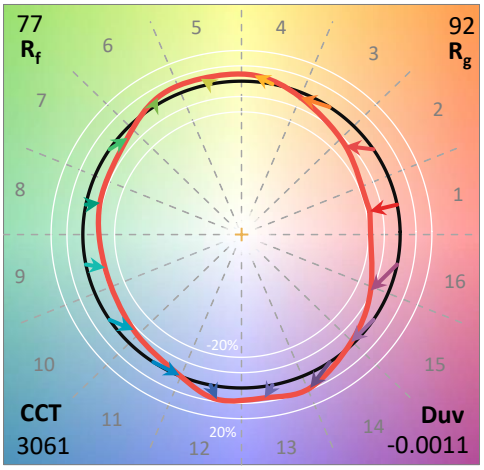
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-4
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-100-730-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3061
CIE u':	0.2489
CIE v':	0.5187
Duv:	-0.0011
CIE x:	0.4312
CIE y:	0.3995
CIE z:	0.1693
Peak Wavelength (nm):	592
Dominant Wavelength (nm):	582
Purity:	49.32381
Rf:	76.8
Rg:	92.2

CRI (Ra):	71.7
R1:	67.8
R2:	85.0
R3:	92.9
R4:	66.0
R5:	68.5
R6:	80.2
R7:	74.5
R8:	39.0
R9:	-40.3
R10:	67.2
R11:	61.6
R12:	59.9
R13:	71.4
R14:	96.3
R15:	58.8



Test Conditions

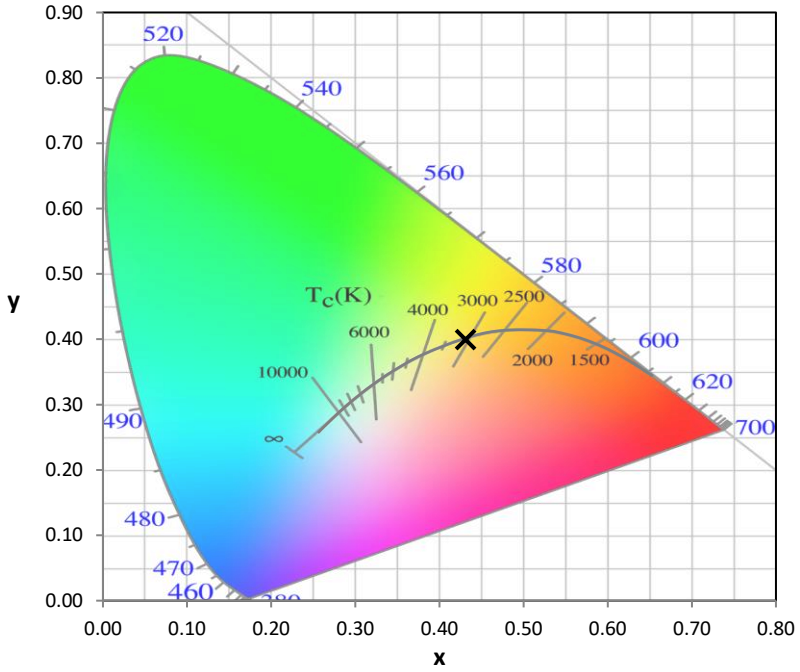
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

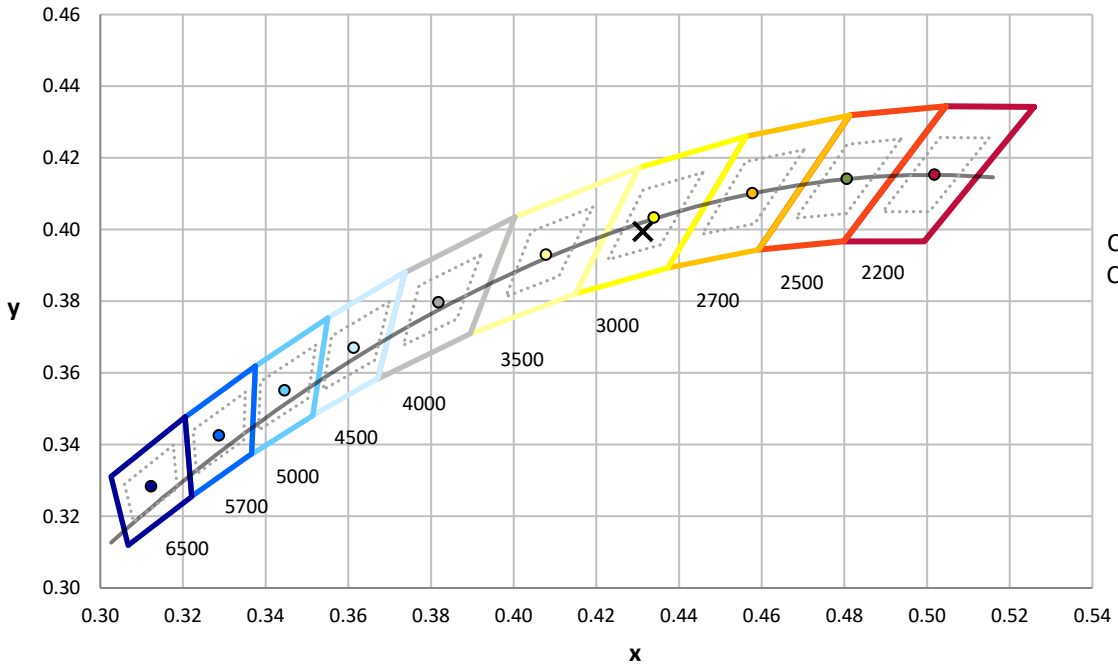
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



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

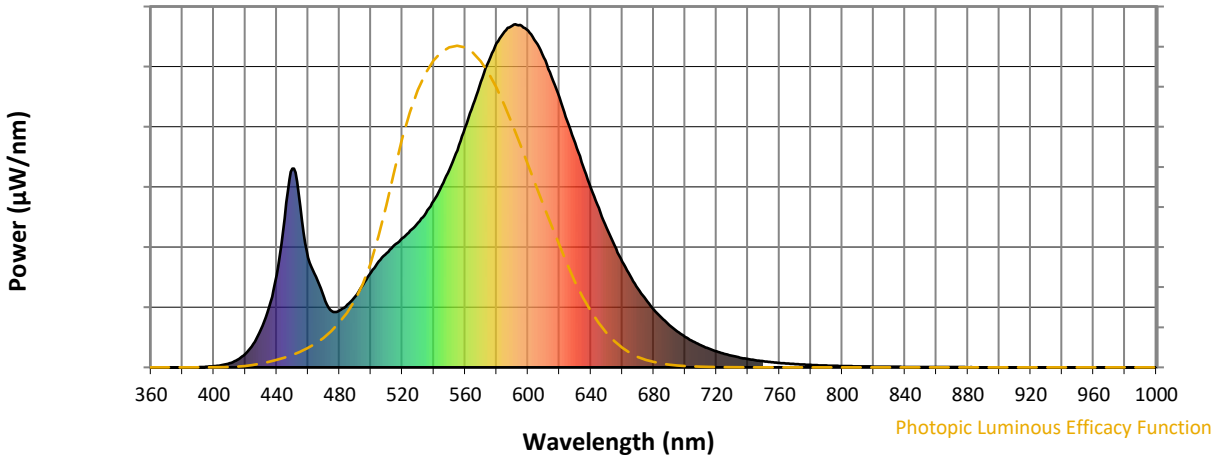


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

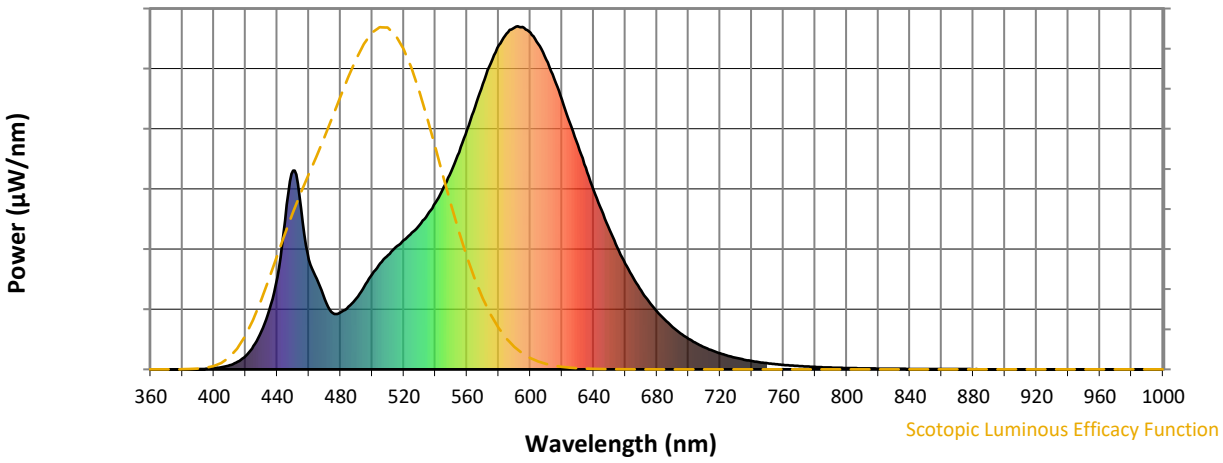


Photopic Lumens: NR

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

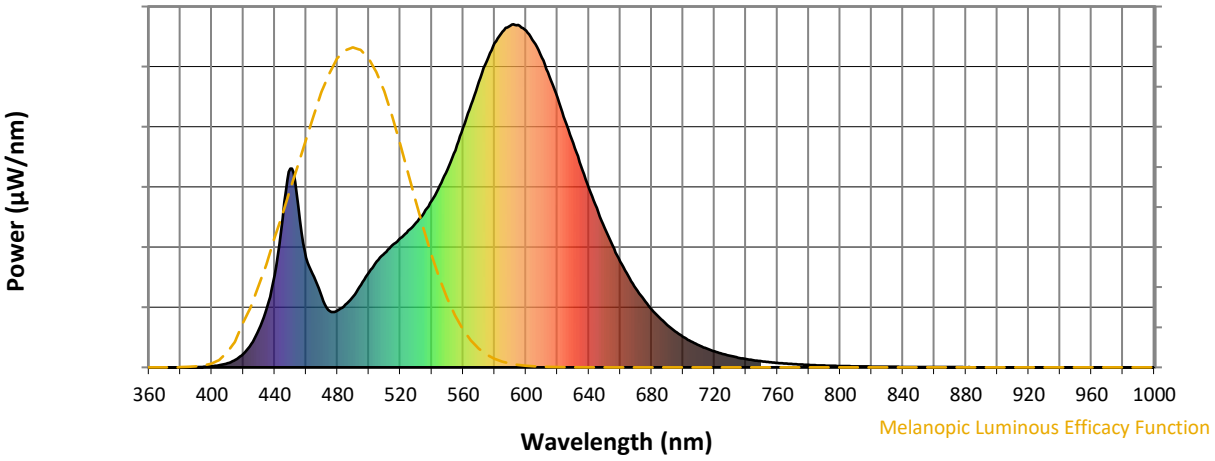


Scotopic Lumens: NR **S/P: 1.29**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

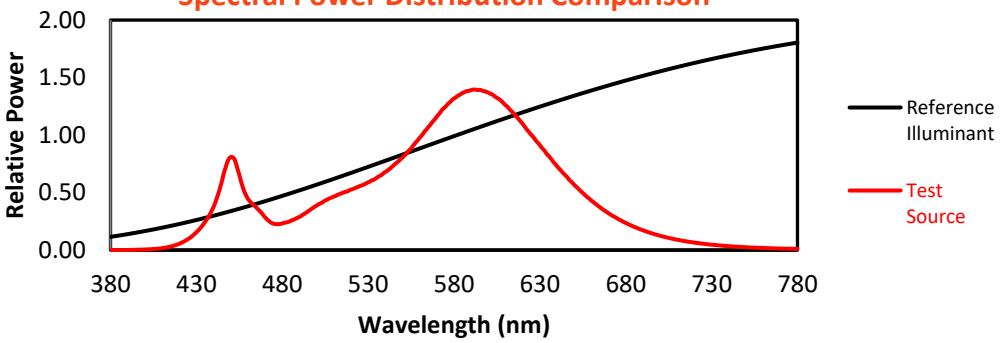
REPORT NUMBER: SP1-2501-332-4

TM-30-18

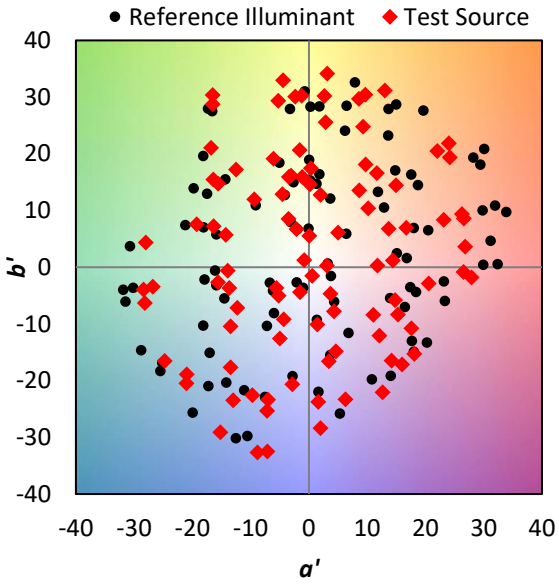
Summary

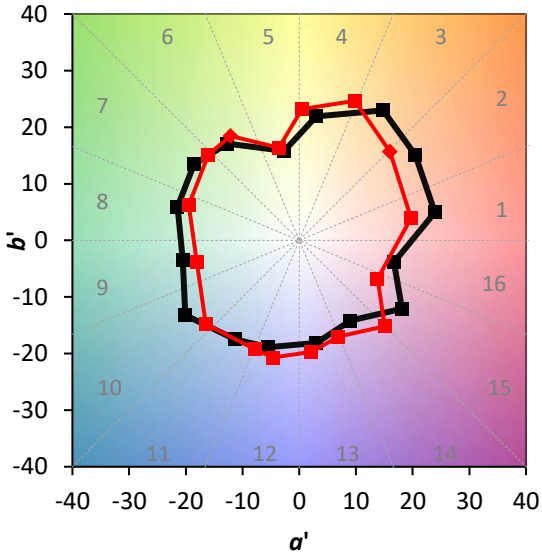
R_f = 76.8
R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

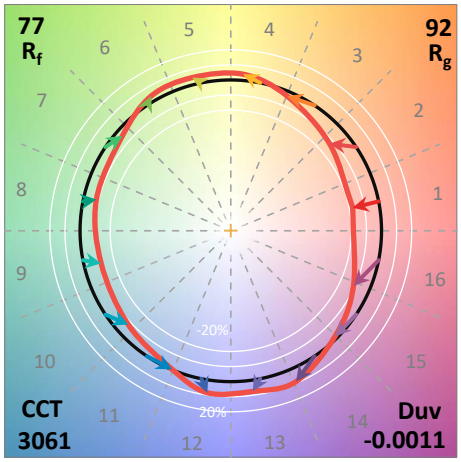
Spectral Power Distribution Comparison

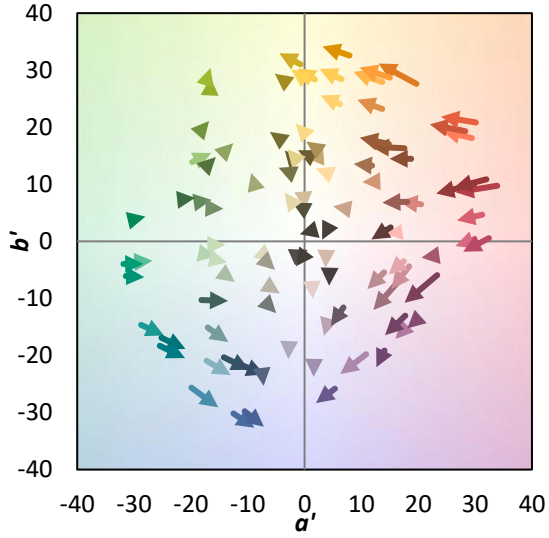


Color Vector Graphics







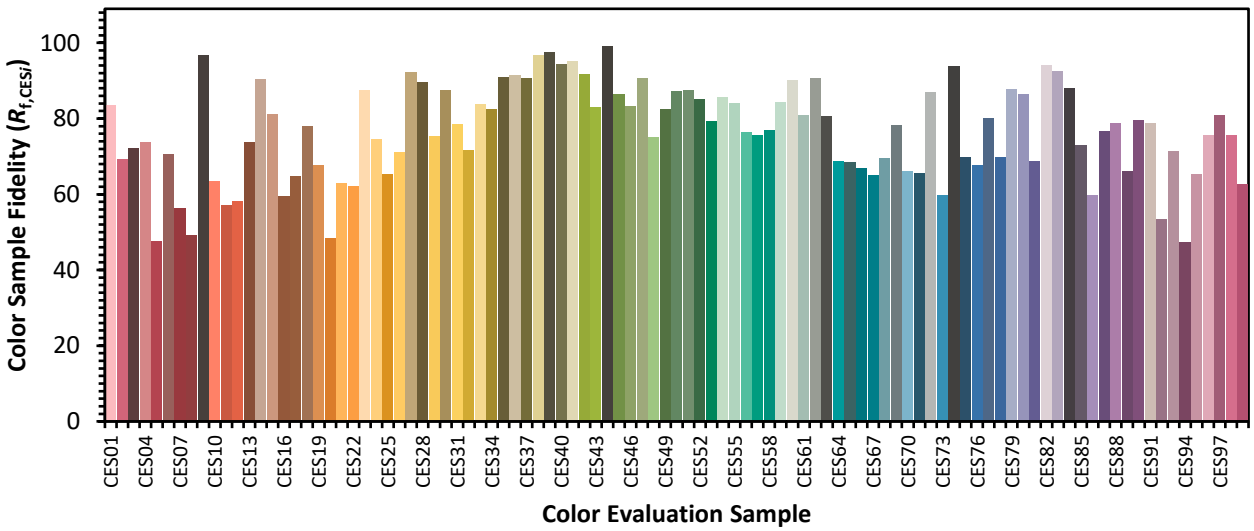


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

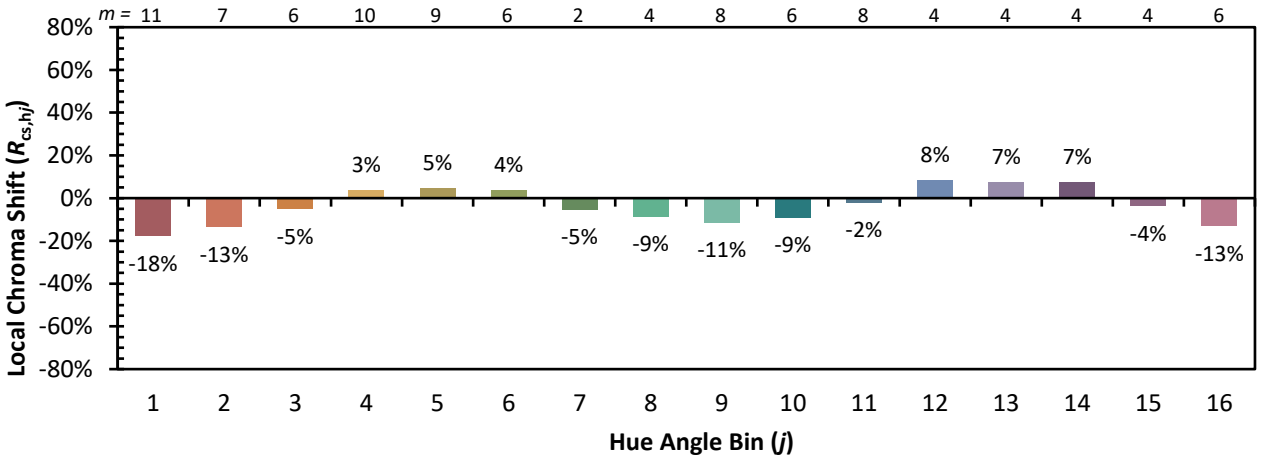
CES01 = 86	CES26 = 71	CES51 = 88	CES76 = 68
CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 83	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 73
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 91	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 97	CES63 = 81	CES88 = 79
CES14 = 74	CES39 = 98	CES64 = 69	CES89 = 66
CES15 = 71	CES40 = 94	CES65 = 69	CES90 = 80
CES16 = 47	CES41 = 95	CES66 = 67	CES91 = 79
CES17 = 50	CES42 = 92	CES67 = 65	CES92 = 53
CES18 = 56	CES43 = 83	CES68 = 70	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 66	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 60	CES98 = 76
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 63
CES25 = 73	CES50 = 87	CES75 = 70	

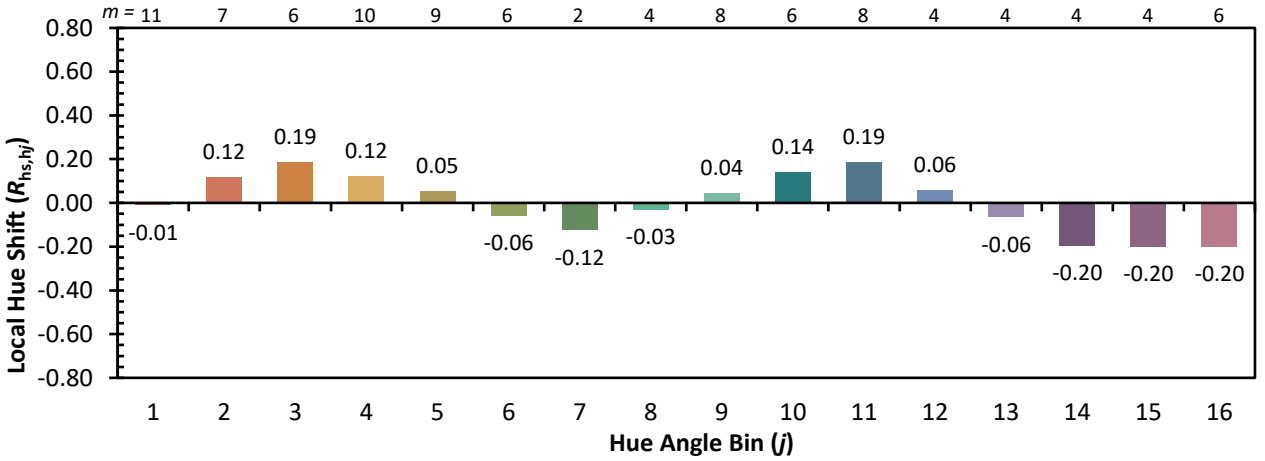


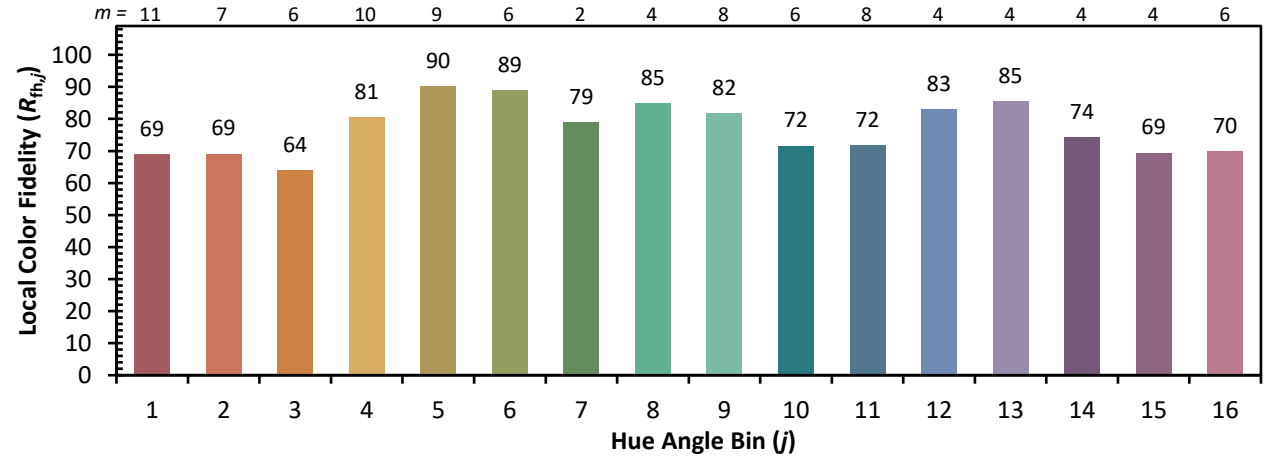
REPORT NUMBER: SP1-2501-332-4

TM-30-18

Color Rendition by Hue-Angle Bin



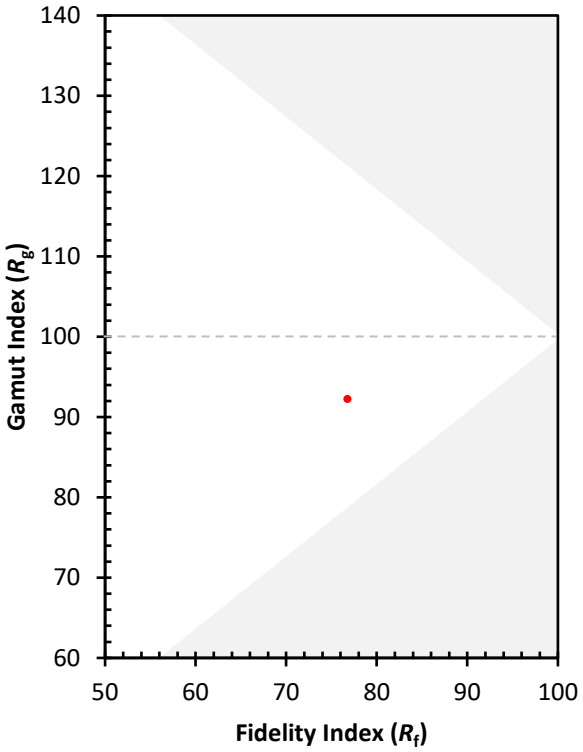


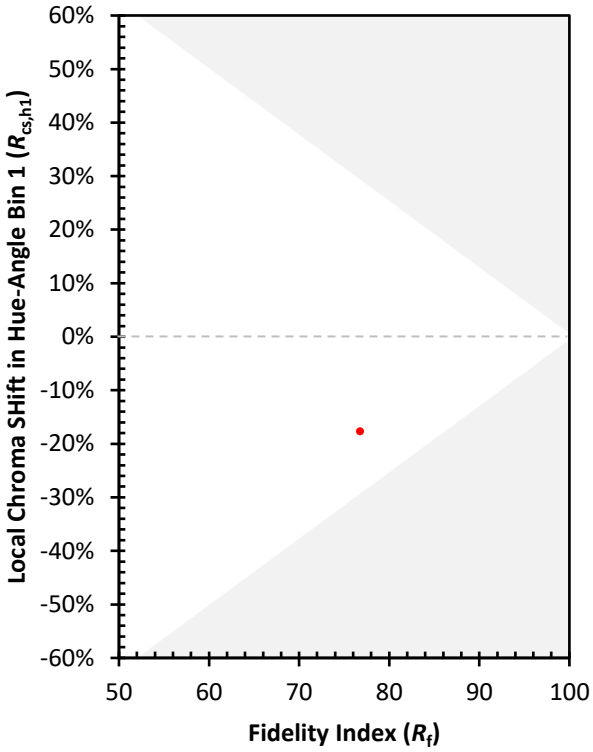


REPORT NUMBER: SP1-2501-332-4

TM-30-18

Measure Comparisons





(END OF REPORT)