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: P1045875

Luminaire Tested: **FFX-CLB-20-722-U-VM9-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:	P1045875
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-722-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1853.6 lumens
Efficiency:	N/A
Efficacy:	93.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U4 - G2

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

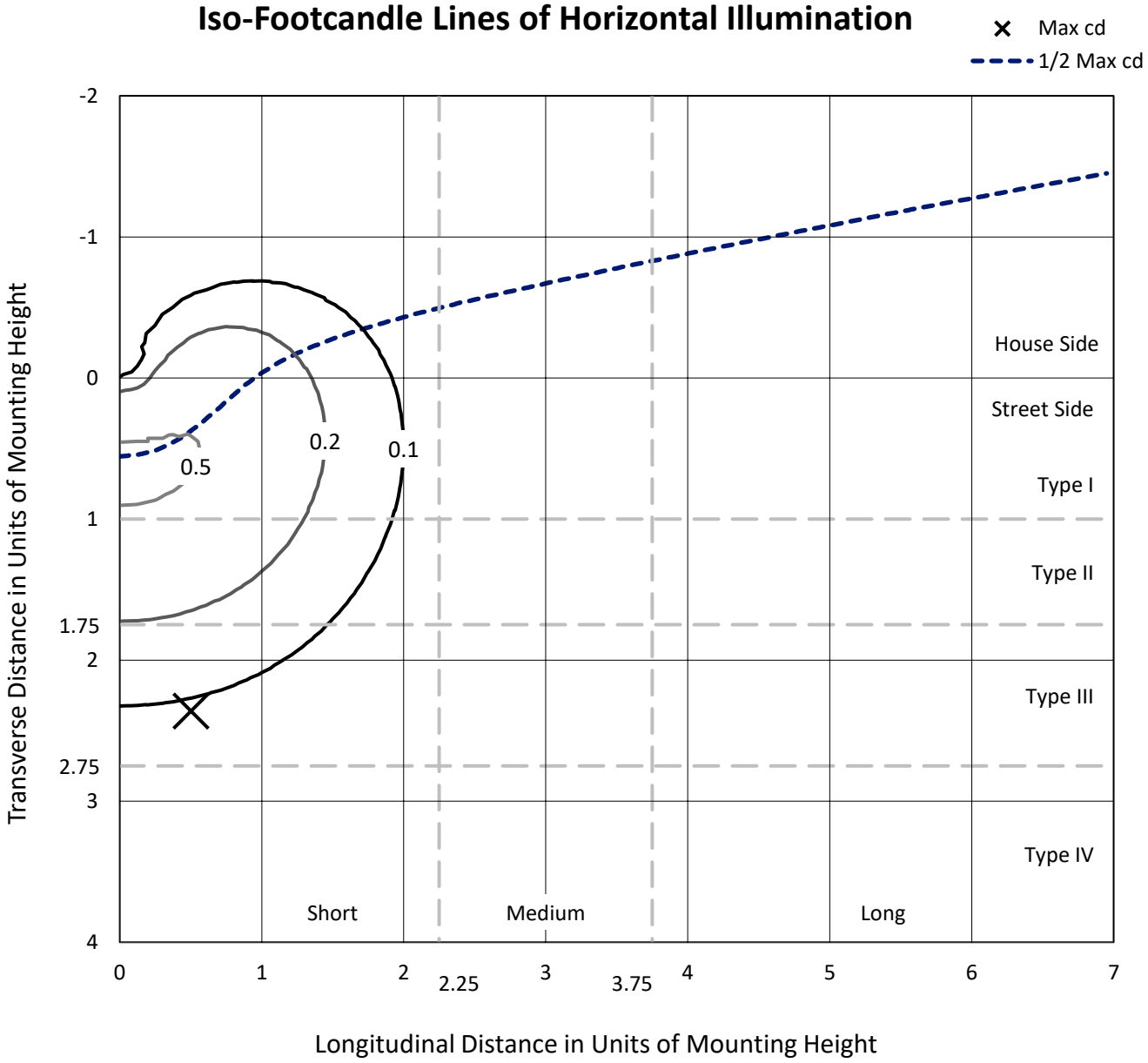


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045875
CATALOG NUMBER: FFX-CLB-20-722-U-VM9-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



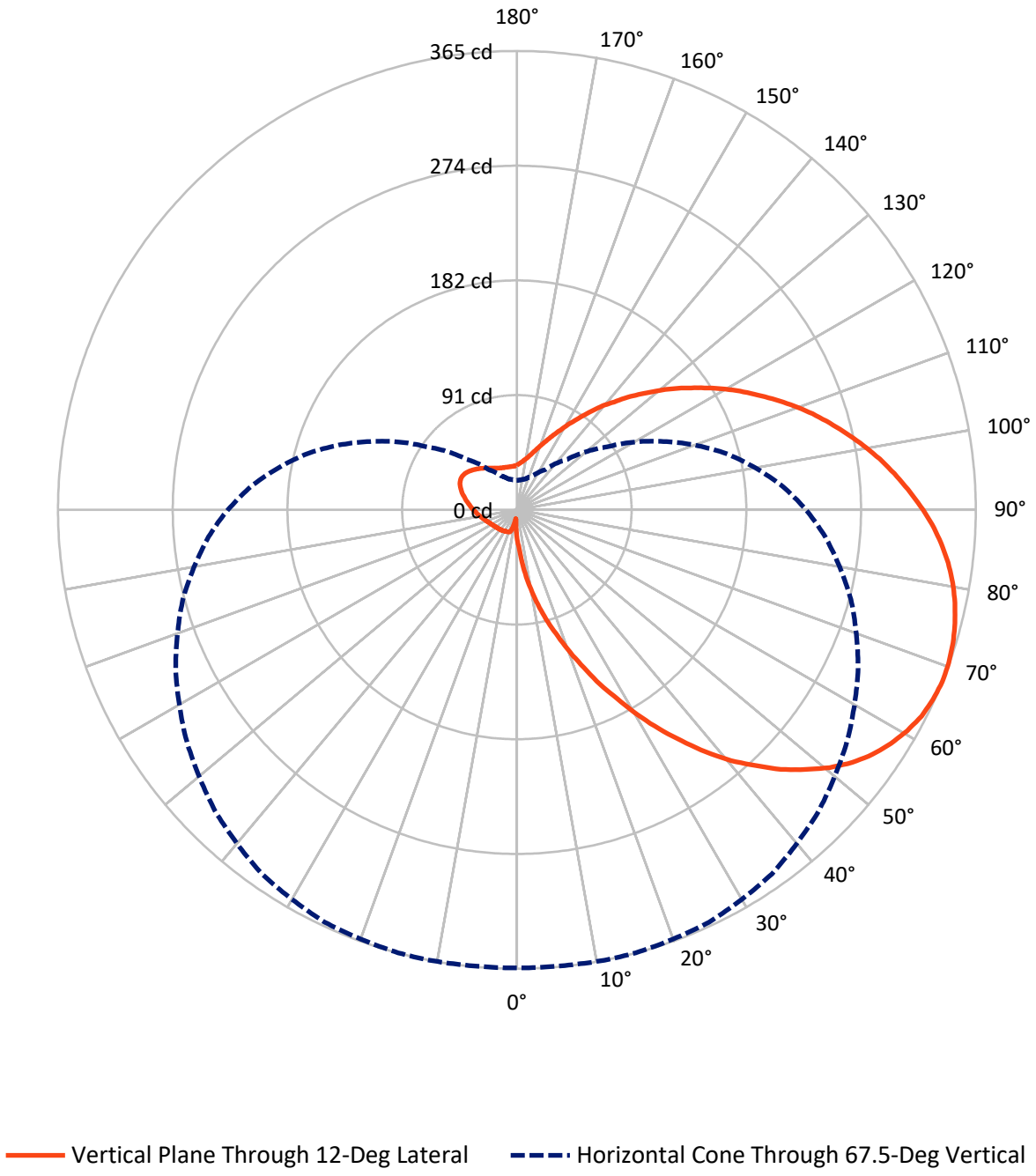
Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045875
CATALOG NUMBER: FFX-CLB-20-722-U-VM9-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

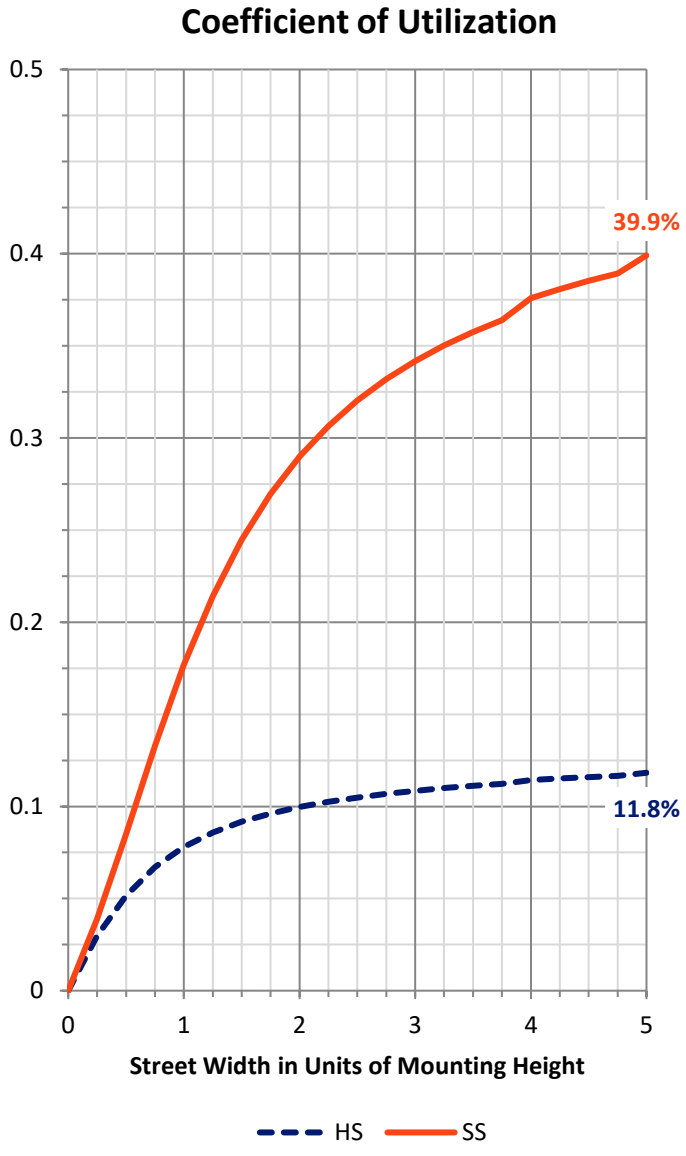
REPORT NUMBER: P1045875
CATALOG NUMBER: FFX-CLB-20-722-U-VM9-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	238.5	230.9	469.4
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	843.4	540.8	1384.2
	% Fixture	45.5	29.2	74.7
Total	Lumens	1081.9	771.7	1853.6
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.2
10°-20°	16.5	0.9
20°-30°	43.0	2.3
30°-40°	83.5	4.5
40°-50°	131.1	7.1
50°-60°	174.0	9.4
60°-70°	202.8	10.9
70°-80°	215.4	11.6
80°-90°	212.7	11.5
90°-100°	196.1	10.6
100°-110°	171.2	9.2
110°-120°	140.7	7.6
120°-130°	106.5	5.7
130°-140°	72.8	3.9
140°-150°	44.6	2.4
150°-160°	24.5	1.3
160°-170°	11.8	0.6
170°-180°	3.5	0.2
0°-90°	1081.9	58.4
0°-180°	1853.6	100.0



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

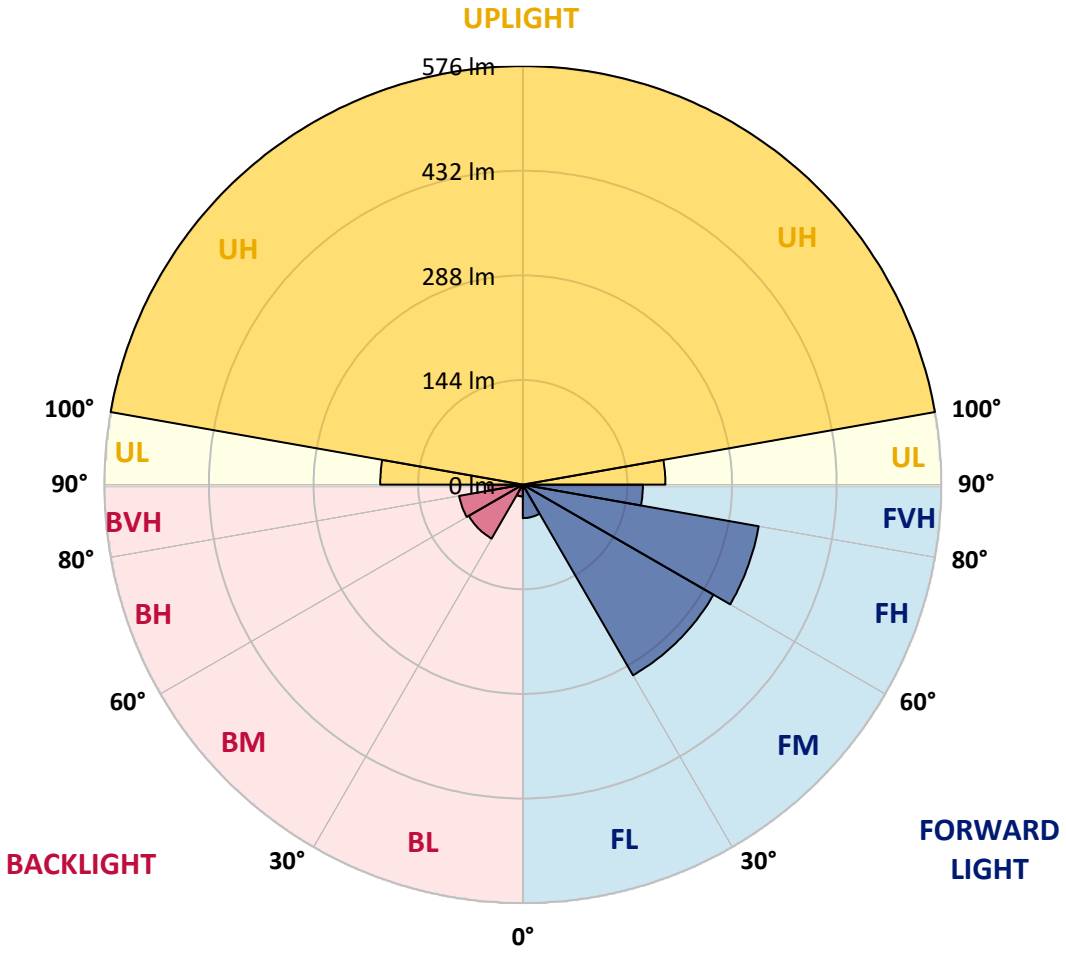
Scaled Data Report

REPORT NUMBER: P1045875
CATALOG NUMBER: FFX-CLB-20-722-U-VM9-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	46.1	2.5			
FM	(30°-60°)	302.8	16.3			
FH	(60°-80°)	329.4	17.8			G0/660
FVH	(80°-90°)	165.1	8.9			G2/225
BL	(0°-30°)	16.3	0.9	B0/110		
BM	(30°-60°)	85.7	4.6	B0/220		
BH	(60°-80°)	88.8	4.8	B0/110		G0/110
BVH	(80°-90°)	47.6	2.6			G1/100
UL	(90°-100°)	196.1	10.6		U3/500	
UH	(100°-180°)	575.5	31.1		U4/1000	

BUG Rating: B0-U4-G2
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1045875
CATALOG NUMBER: FFX-CLB-20-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23.4	23.4	*23.4*	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
2.5°	29.4	30.0	*29.4*	30.2	29.8	29.8	28.8	27.7	26.3	24.7	23.2
5°	41.6	41.4	*40.6*	41.4	40.6	39.6	37.9	35.3	32.6	30.2	27.1
7.5°	54.2	54.4	*53.8*	53.6	51.8	50.4	47.7	45.1	41.8	38.1	34.5
10°	67.9	67.5	*66.5*	66.7	64.6	61.8	58.7	55.7	52.0	47.7	43.0
12.5°	80.5	80.5	*79.7*	79.9	77.7	74.4	72.0	67.9	63.4	58.3	52.6
15°	94.0	93.2	*92.8*	92.8	90.5	87.7	85.0	80.5	75.2	69.5	63.0
17.5°	106.4	106.2	*105.8*	106.0	104.0	101.5	97.3	92.8	86.5	79.5	72.8
20°	122.3	121.5	*120.9*	119.9	118.7	115.4	111.3	105.4	99.1	91.6	82.6
22.5°	136.8	137.8	*136.2*	135.4	133.8	131.1	125.2	119.5	111.9	103.2	93.4
25°	153.5	154.4	*153.7*	152.7	150.5	146.8	141.3	135.0	126.0	116.0	104.4
27.5°	171.1	171.7	*170.1*	170.5	166.6	163.1	157.6	149.9	141.3	129.5	117.2
30°	188.4	189.6	*189.0*	187.6	184.3	181.3	174.8	166.6	156.8	143.8	129.7
32.5°	208.8	207.4	*207.6*	205.9	203.9	199.0	193.3	184.1	172.7	158.8	142.7
35°	227.8	227.2	*225.5*	226.3	222.9	218.4	211.3	201.5	189.0	173.7	156.0
37.5°	244.7	245.3	*244.3*	243.7	241.4	236.3	228.0	218.0	203.7	187.6	168.2
40°	262.0	262.4	*262.2*	262.2	259.2	253.5	244.9	233.7	219.0	201.7	180.7
42.5°	278.5	278.9	*277.9*	278.1	275.7	269.8	260.6	248.8	232.5	214.3	191.5
45°	294.4	294.4	*294.4*	294.2	290.8	285.3	275.9	262.4	246.1	225.5	201.5
47.5°	309.1	308.7	*308.5*	308.5	306.3	299.7	289.8	275.1	257.3	235.7	211.3
50°	322.2	322.4	*322.2*	321.8	318.3	313.0	301.8	286.5	267.7	245.5	219.4
52.5°	333.4	333.6	*333.8*	332.8	330.5	324.2	311.8	295.5	276.5	253.3	226.1
55°	342.4	342.8	*343.2*	342.8	340.5	333.0	320.5	304.0	283.6	259.8	232.0
57.5°	350.7	350.5	*350.7*	350.3	347.9	340.5	327.7	309.9	289.3	265.1	236.5
60°	356.4	356.6	*356.6*	356.6	353.8	346.2	332.6	314.4	293.4	269.2	240.4
62.5°	360.3	360.5	*361.1*	360.7	358.1	350.1	336.0	317.7	296.5	271.8	243.1
65°	363.0	363.2	*363.6*	363.2	360.7	352.6	338.3	319.7	298.5	273.9	244.9
67.5°	*364.2*	*364.2*	*364.8*	*364.6*	*361.7*	*353.4*	*339.1*	*320.5*	*299.3*	*274.9*	*246.1*
70°	363.6	363.8	*364.2*	364.0	361.1	352.8	338.5	320.1	299.1	274.9	246.3
72.5°	362.1	362.1	*362.6*	362.1	359.5	351.1	337.1	318.9	298.1	274.5	246.1
75°	359.3	359.5	*359.7*	359.5	356.6	348.5	334.6	316.7	296.5	273.0	245.3
77.5°	355.8	356.0	*356.0*	356.0	353.0	344.8	331.4	313.8	294.2	271.4	243.9
80°	350.7	350.9	*351.3*	350.9	347.9	340.5	327.1	310.4	291.4	268.8	242.0
82.5°	345.0	344.8	*345.4*	345.2	342.2	334.8	321.6	305.7	287.1	265.7	239.4
85°	337.9	337.9	*338.3*	337.9	335.2	327.5	315.0	300.0	282.2	261.2	236.1
87.5°	329.9	329.9	*330.3*	329.5	326.5	319.7	307.9	293.2	276.9	256.7	232.5
90°	320.5	321.0	*321.0*	320.3	317.3	310.8	300.0	285.9	270.0	251.2	228.2
92.5°	311.6	311.6	*311.2*	311.2	307.9	301.4	291.4	278.5	263.7	245.7	223.5
95°	302.0	302.0	*301.4*	301.0	297.7	292.2	282.6	270.8	256.5	240.0	218.8
97.5°	291.8	291.6	*291.2*	290.8	287.5	282.2	273.6	262.2	249.2	233.5	213.7
100°	281.4	281.6	*280.2*	280.0	276.7	272.2	264.1	253.5	241.4	226.7	208.2
102.5°	270.0	270.4	*269.2*	269.0	265.7	260.8	254.3	244.7	233.9	220.4	202.7
105°	259.8	258.8	*258.1*	257.7	254.9	250.4	243.5	235.9	225.7	213.1	196.6
107.5°	248.2	248.4	*247.1*	246.3	243.5	239.8	233.7	226.7	217.8	205.7	190.7
110°	236.5	236.1	*235.5*	235.1	231.8	228.6	223.3	217.6	208.8	198.4	184.3

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

Scaled Data Report

REPORT NUMBER: P1045875
CATALOG NUMBER: FFX-CLB-20-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	224.5	224.7	*223.7*	223.1	220.8	217.4	213.5	208.0	200.4	190.7	177.4
115°	213.3	212.9	*212.1*	211.7	209.2	206.6	202.7	198.6	191.9	182.5	170.5
117.5°	201.9	201.1	*200.9*	200.2	198.4	195.8	192.7	189.2	182.7	174.5	163.1
120°	190.0	190.0	*189.6*	189.2	186.8	184.5	182.7	179.0	173.5	165.8	156.0
122.5°	179.0	178.8	*178.0*	177.4	176.2	174.1	171.9	169.0	164.1	157.2	147.8
125°	167.0	167.4	*166.8*	166.6	164.6	163.5	161.5	159.7	154.6	148.2	139.9
127.5°	157.0	156.4	*156.4*	155.4	154.4	153.3	151.7	149.3	145.8	139.3	131.5
130°	146.4	146.0	*145.4*	145.4	144.2	142.7	141.7	139.7	135.8	130.5	123.2
132.5°	135.8	135.4	*135.0*	134.4	133.6	133.4	132.3	130.1	126.4	121.7	115.4
135°	125.8	125.6	*125.4*	125.4	124.2	123.6	122.3	120.5	118.1	113.8	107.7
137.5°	116.4	115.8	*115.4*	115.4	115.0	114.0	113.0	111.5	108.9	105.4	99.9
140°	106.6	107.1	*107.1*	106.8	106.0	105.4	104.2	103.0	100.3	97.5	92.8
142.5°	98.5	98.3	*97.9*	97.7	97.3	96.4	95.8	94.4	92.8	89.7	85.6
145°	89.7	89.7	*89.5*	89.7	88.9	88.7	87.9	86.7	84.8	82.2	78.7
147.5°	82.0	82.0	*81.8*	82.0	81.4	80.7	80.1	79.3	77.7	75.7	72.6
150°	74.8	75.0	*74.6*	74.6	74.4	73.8	73.4	72.2	71.0	69.3	66.7
152.5°	68.3	68.5	*68.3*	68.1	67.9	67.5	66.9	66.1	64.8	63.4	61.2
155°	62.8	62.6	*62.6*	62.6	62.4	61.8	61.8	60.6	59.3	58.3	56.1
157.5°	57.5	57.5	*57.5*	57.5	57.1	56.9	56.5	55.5	54.9	53.4	51.8
160°	53.2	53.0	*53.0*	53.0	52.6	52.4	51.8	51.4	50.6	49.3	48.1
162.5°	48.9	49.1	*49.1*	49.1	48.7	48.5	48.1	47.7	47.1	45.9	45.1
165°	45.7	45.7	*45.7*	45.5	45.3	45.3	44.7	44.5	43.8	43.0	42.4
167.5°	43.0	43.0	*42.8*	43.0	42.6	42.2	42.0	41.6	41.2	40.8	40.2
170°	40.8	40.8	*40.8*	40.8	40.6	40.4	40.0	39.8	39.4	38.9	38.3
172.5°	38.9	38.9	*38.9*	38.9	38.7	38.5	38.1	37.9	37.7	37.3	36.9
175°	37.5	37.5	*37.5*	37.5	37.3	37.1	36.7	36.7	36.5	36.3	35.9
177.5°	36.5	36.5	*36.3*	36.3	36.1	35.9	35.9	35.7	35.7	35.5	35.3
180°	35.3	35.3	*35.3*	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3

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

Scaled Data Report

REPORT NUMBER: P1045875
CATALOG NUMBER: FFX-CLB-20-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
2.5°	22.4	21.6	20.2	19.0	17.5	16.5	15.5	15.3	15.3	15.7	15.7
5°	25.9	24.1	21.2	18.6	15.5	13.3	11.2	9.4	8.2	7.5	7.5
7.5°	32.4	31.0	26.7	23.0	19.4	15.9	12.6	9.8	7.7	6.3	6.1
10°	40.8	38.5	33.4	28.8	23.9	19.6	15.7	12.2	9.8	8.6	8.6
12.5°	49.8	46.7	40.6	34.9	29.2	23.7	19.2	15.7	13.3	12.0	11.6
15°	59.3	55.9	48.5	41.2	34.3	28.3	23.2	19.0	16.5	15.3	15.1
17.5°	68.3	64.4	56.1	47.3	39.4	32.2	26.1	21.6	18.6	17.1	16.9
20°	78.1	73.0	63.2	53.0	43.6	35.1	28.1	22.8	19.2	17.5	17.3
22.5°	88.1	82.2	70.6	58.7	47.5	37.7	29.6	23.4	19.4	17.5	17.3
25°	98.7	92.2	78.5	64.8	51.8	40.4	31.0	24.1	19.8	17.5	17.3
27.5°	109.9	102.6	86.9	71.4	56.1	43.0	32.4	24.9	20.0	17.7	17.3
30°	121.9	113.6	95.4	77.7	60.2	45.5	33.6	25.3	20.2	17.7	17.5
32.5°	134.0	123.8	104.8	83.8	64.4	47.7	34.9	25.9	20.4	17.9	17.7
35°	145.6	135.6	113.4	90.1	68.5	50.0	35.9	26.3	20.8	18.1	17.7
37.5°	157.4	146.6	121.5	96.0	72.2	51.8	36.7	26.7	21.0	18.4	17.9
40°	168.6	156.0	129.5	101.8	75.2	53.4	37.3	26.9	21.2	18.6	18.1
42.5°	179.2	165.8	137.0	106.6	78.3	54.6	37.9	27.3	21.4	18.8	18.6
45°	188.2	174.3	143.6	111.5	80.5	55.7	38.3	27.5	21.6	19.0	18.8
47.5°	197.0	182.1	149.7	115.4	82.8	56.7	38.5	27.7	21.8	19.4	19.2
50°	204.7	189.0	155.2	118.9	84.4	57.1	38.7	27.9	22.2	19.8	19.6
52.5°	211.3	194.9	159.5	121.7	85.6	57.5	38.7	27.9	22.4	20.2	20.0
55°	216.6	200.0	163.3	123.8	86.5	57.7	38.7	28.1	22.8	20.6	20.4
57.5°	221.0	203.9	166.4	125.6	87.3	57.7	38.7	28.3	23.2	21.0	20.8
60°	224.3	207.2	168.6	126.8	87.5	57.5	38.7	28.5	23.7	21.6	21.4
62.5°	227.0	209.4	170.5	127.6	87.5	57.1	38.7	28.8	24.1	22.2	22.0
65°	228.8	211.0	171.7	128.1	87.3	56.9	38.7	29.2	24.7	22.8	22.6
67.5°	*229.8*	*212.3*	*172.5*	*128.5*	*87.1*	*56.9*	*38.9*	*29.8*	*25.3*	*23.7*	*23.4*
70°	230.2	212.5	172.7	128.3	86.9	56.5	39.2	30.2	26.1	24.5	24.3
72.5°	230.2	212.7	172.7	128.3	86.5	56.7	39.4	30.8	26.9	25.3	25.1
75°	229.6	212.1	172.5	127.9	86.3	56.5	40.0	31.6	27.7	26.3	26.1
77.5°	228.4	211.3	171.9	127.2	86.0	56.7	40.4	32.4	28.8	27.3	27.3
80°	227.0	210.0	171.1	126.6	85.8	57.1	41.0	33.4	29.8	28.5	28.3
82.5°	224.7	208.2	169.7	125.8	85.4	57.3	41.8	34.5	31.0	29.6	29.6
85°	221.6	205.5	167.8	124.8	85.0	57.7	42.6	35.3	32.2	30.8	30.8
87.5°	218.4	202.7	165.6	123.6	84.8	58.1	43.6	36.5	33.2	32.0	31.8
90°	214.5	199.2	163.3	122.1	84.6	58.7	44.5	37.7	34.7	33.4	33.2
92.5°	210.4	195.8	160.9	121.1	84.4	59.3	45.7	39.2	36.1	34.9	34.7
95°	206.4	192.1	158.4	119.7	84.4	60.2	46.9	40.6	37.5	36.3	36.1
97.5°	201.7	188.0	155.6	118.5	84.4	61.2	48.3	42.0	38.9	37.7	37.7
100°	196.8	183.9	152.7	117.2	84.6	62.2	49.8	43.6	40.6	39.4	39.4
102.5°	191.9	179.4	150.1	116.2	85.0	63.6	51.6	45.5	42.4	41.2	41.0
105°	186.6	175.0	147.0	114.8	85.4	64.8	53.2	47.1	44.0	42.8	42.8
107.5°	181.3	170.3	144.0	113.8	85.8	66.1	55.1	48.9	45.9	44.5	44.5
110°	175.4	165.2	140.7	112.6	86.3	67.5	56.5	50.6	47.3	46.1	45.9

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

Scaled Data Report

REPORT NUMBER: P1045875
CATALOG NUMBER: FFX-CLB-20-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	169.2	160.1	137.2	110.9	86.5	68.7	58.1	52.2	48.9	47.5	47.3
115°	162.7	154.4	133.4	109.3	86.5	69.7	59.3	53.4	50.2	48.7	48.5
117.5°	156.2	148.2	129.1	107.1	86.3	70.3	60.4	54.2	51.0	49.6	49.3
120°	149.3	142.1	124.8	104.8	85.4	70.6	60.8	54.9	51.4	50.0	49.8
122.5°	142.1	135.6	119.7	101.8	84.2	70.3	60.8	54.9	51.4	49.8	49.6
125°	134.4	128.7	114.4	98.1	82.4	69.5	60.4	54.4	51.0	49.3	48.9
127.5°	126.8	121.7	108.9	94.4	80.1	68.3	59.5	53.6	50.2	48.5	48.3
130°	119.5	114.4	103.2	90.3	77.5	66.7	58.1	52.4	49.1	47.3	47.1
132.5°	111.7	107.1	97.5	86.0	74.4	64.6	56.7	51.2	47.7	46.3	45.9
135°	104.0	100.3	91.6	81.6	71.4	62.4	55.1	49.8	46.5	44.9	44.9
137.5°	97.1	93.4	85.6	77.1	68.1	59.7	53.0	48.1	45.1	43.6	43.4
140°	89.9	87.1	80.1	72.6	64.6	57.3	51.4	46.7	43.8	42.4	42.2
142.5°	83.2	80.3	74.8	67.9	61.2	54.6	49.3	45.1	42.4	41.2	41.0
145°	76.5	74.4	69.1	63.6	57.7	52.0	47.1	43.4	41.2	40.0	40.0
147.5°	70.6	68.7	64.0	59.3	54.2	49.6	45.3	42.0	40.0	38.9	38.7
150°	64.8	63.2	59.3	55.5	50.8	46.9	43.2	40.6	38.7	37.9	37.7
152.5°	59.5	58.3	55.1	51.8	47.9	44.5	41.6	39.4	37.7	36.9	36.9
155°	55.1	54.0	51.2	48.3	45.3	42.4	40.0	38.1	36.9	36.3	36.1
157.5°	51.2	50.0	47.7	45.5	43.0	40.6	38.7	37.1	36.3	35.7	35.7
160°	47.5	46.5	44.7	43.0	41.0	39.2	37.5	36.5	35.7	35.3	35.3
162.5°	44.5	43.6	42.2	40.8	39.4	37.9	36.7	35.9	35.3	34.9	34.9
165°	41.8	41.4	40.2	39.2	37.9	36.9	36.1	35.5	35.1	34.9	34.9
167.5°	39.8	39.4	38.5	37.7	36.9	36.1	35.5	35.1	34.9	34.7	34.7
170°	38.1	37.7	37.3	36.7	36.1	35.5	35.1	34.9	34.7	34.7	34.7
172.5°	36.9	36.5	36.3	35.9	35.5	35.1	34.9	34.7	34.7	34.7	34.7
175°	35.9	35.7	35.5	35.3	35.1	34.9	34.7	34.7	34.7	34.7	34.7
177.5°	35.3	35.1	35.1	34.9	34.9	34.7	34.7	34.9	34.9	34.9	35.1
180°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

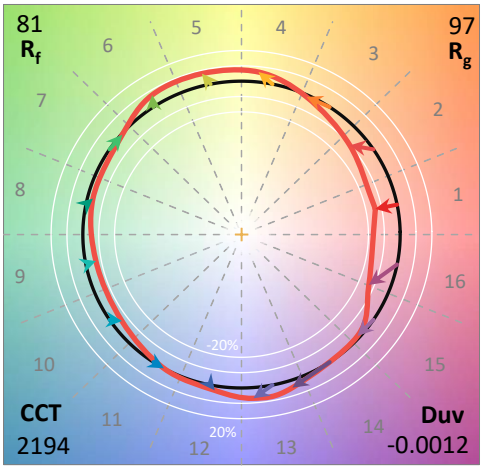
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
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-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

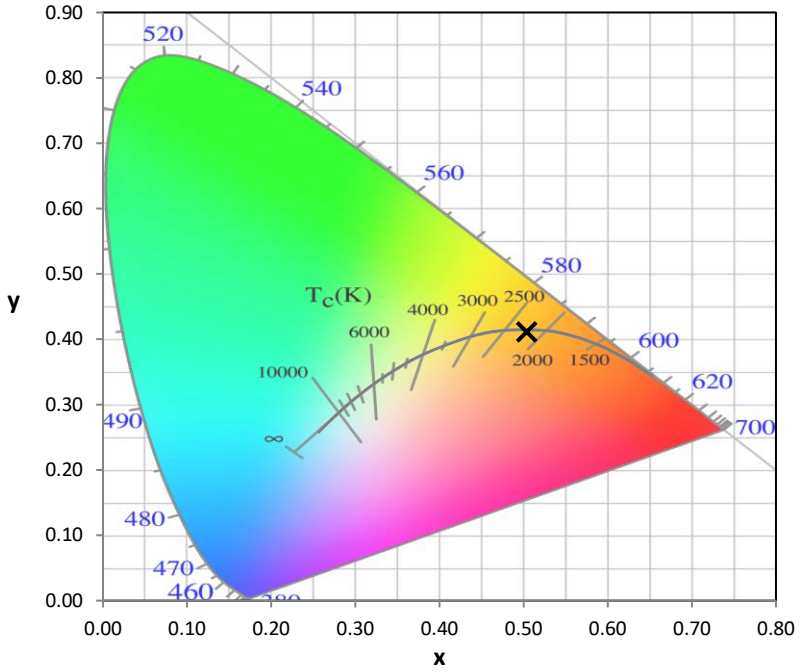
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

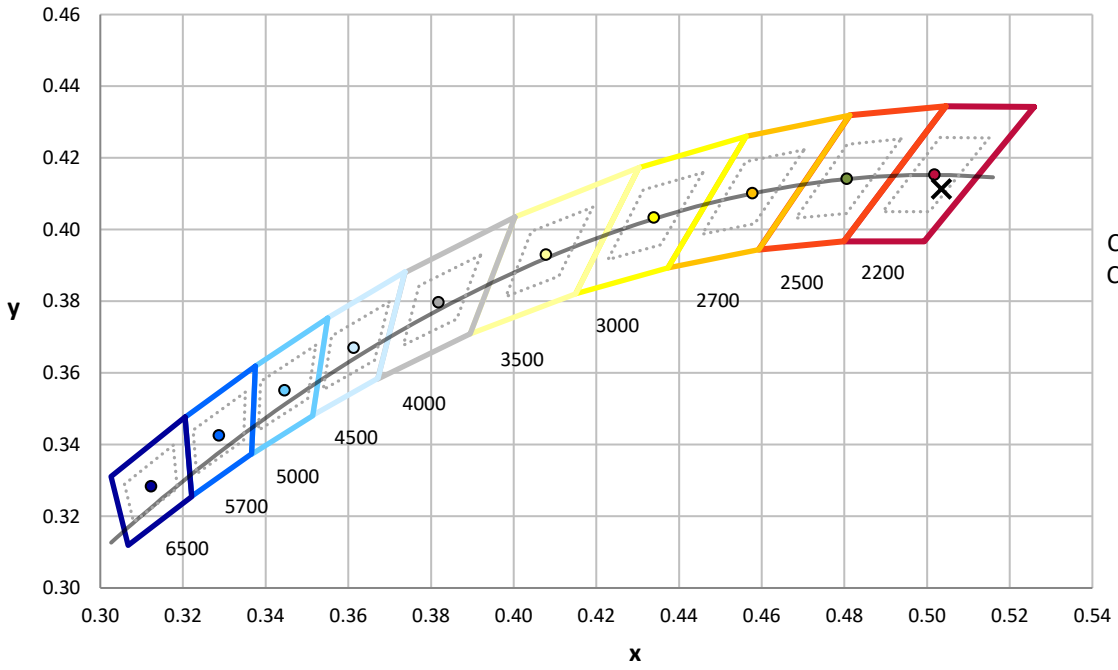
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

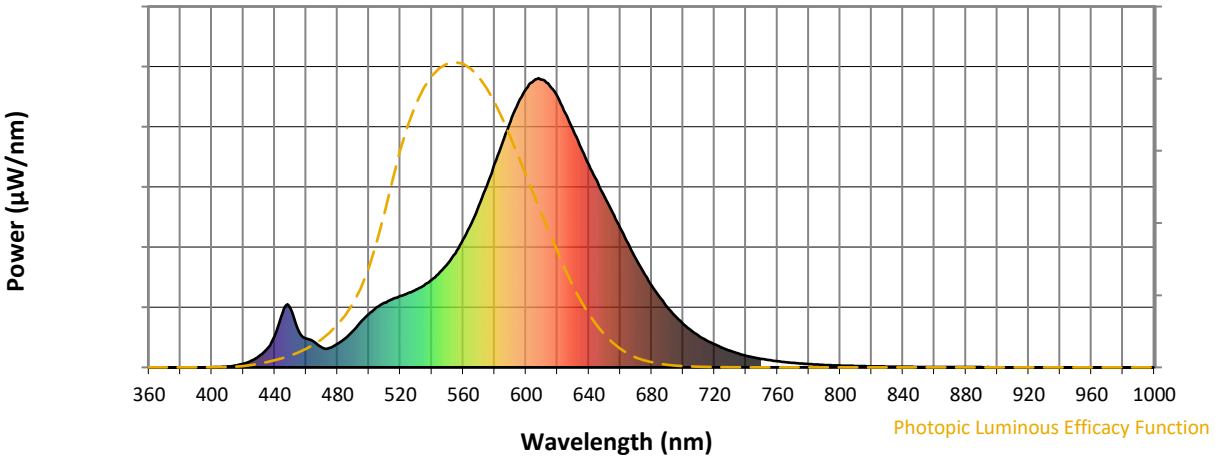


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

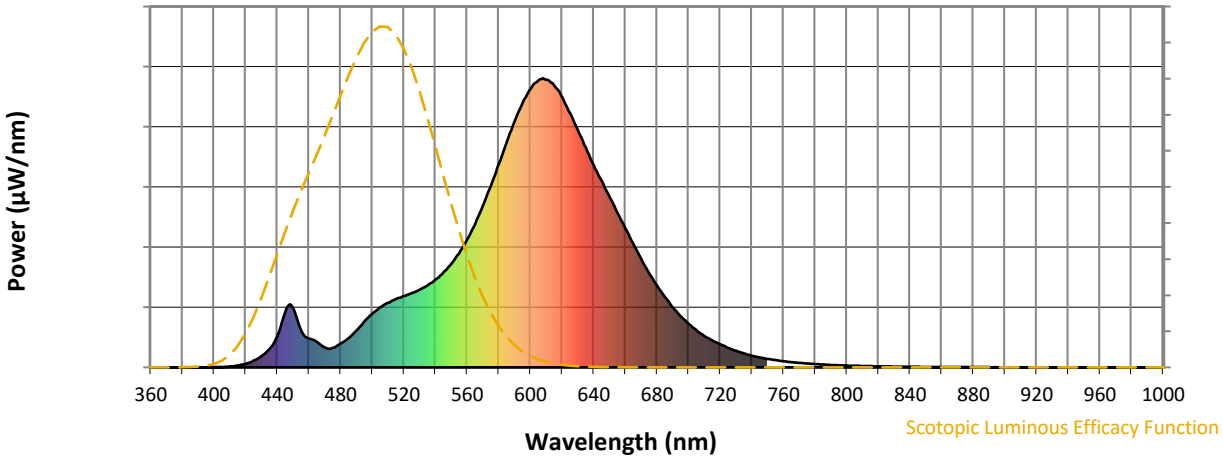


Photopic Lumens: NR

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

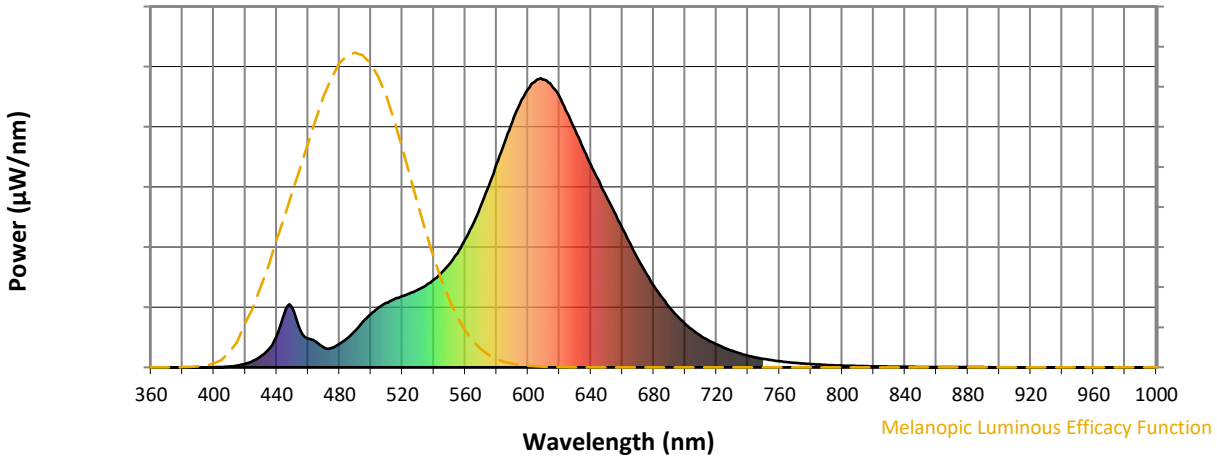


Scotopic Lumens: NR **S/P: 0.96**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

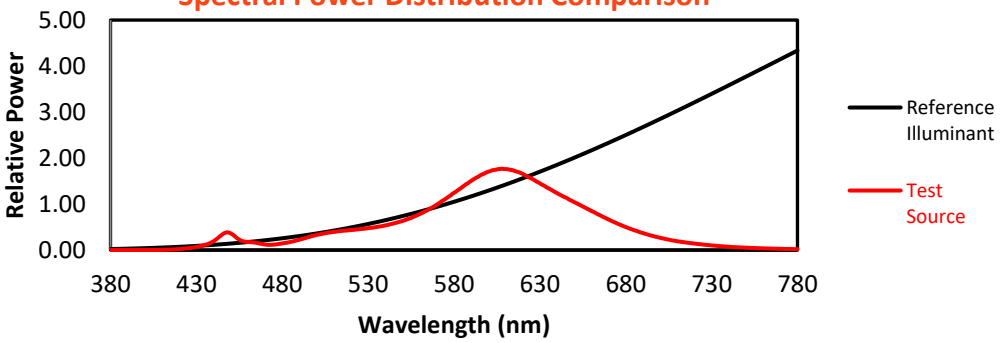
REPORT NUMBER: SP1-2501-332-7

TM-30-18

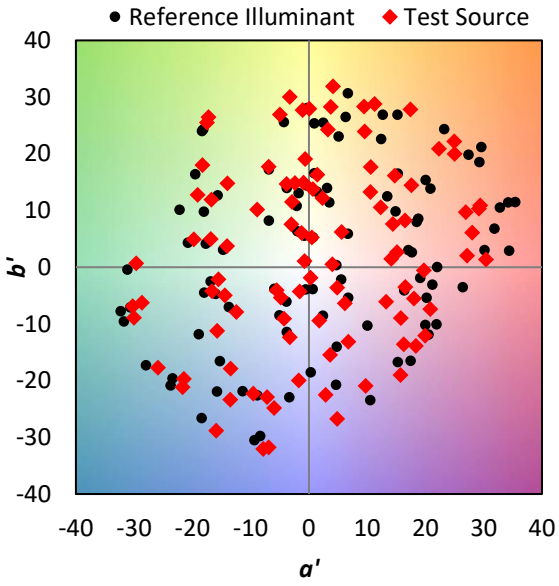
Summary

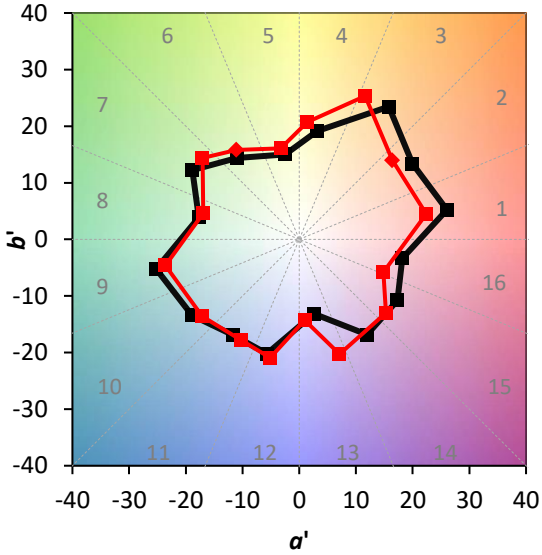
R_f = 81
R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

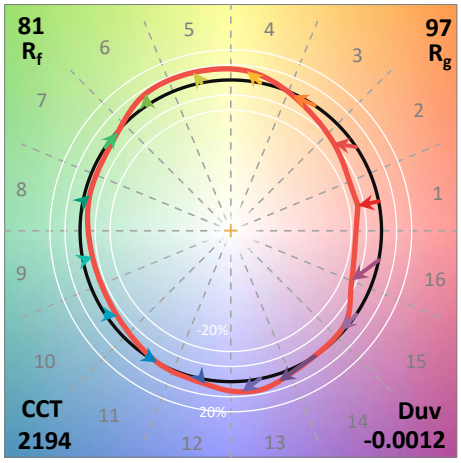
Spectral Power Distribution Comparison

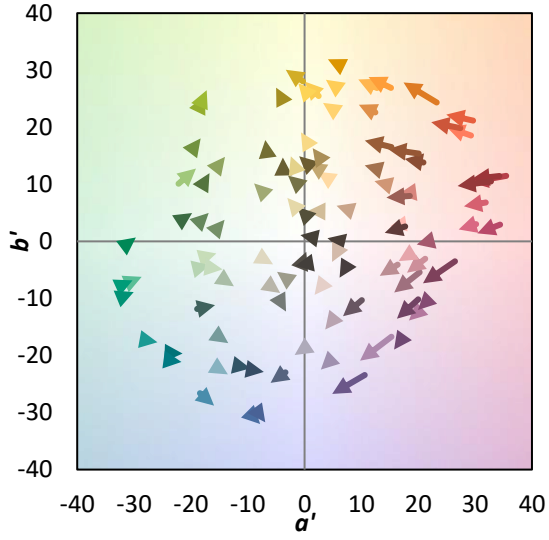


Color Vector Graphics







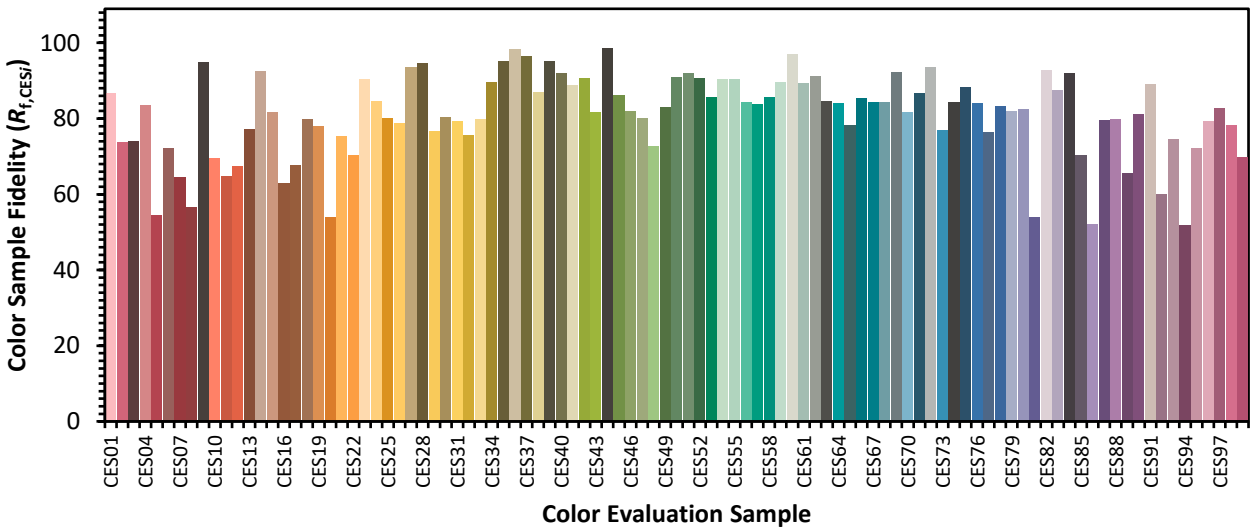


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

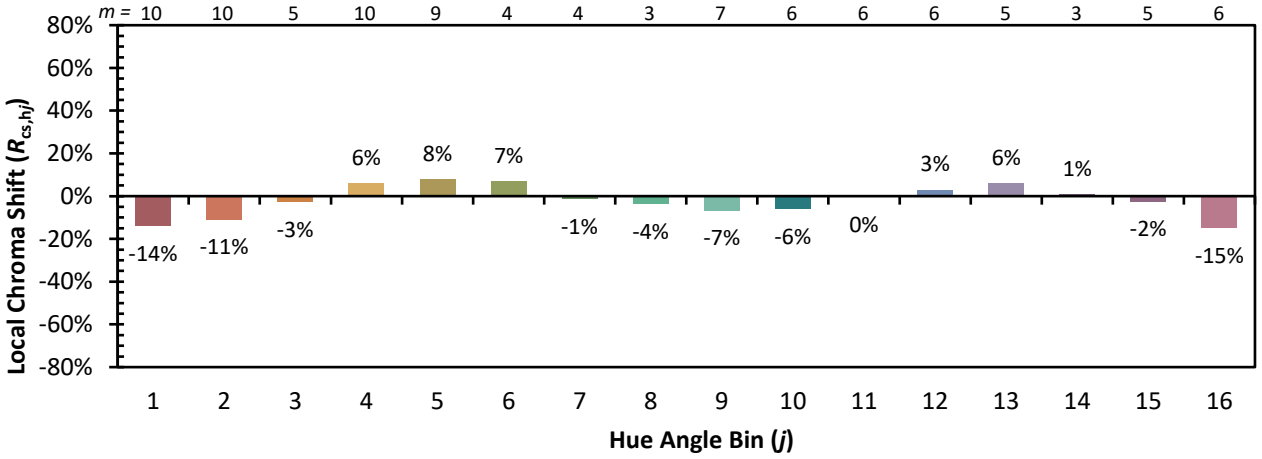
CES01 = 87	CES26 = 79	CES51 = 92	CES76 = 84
CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

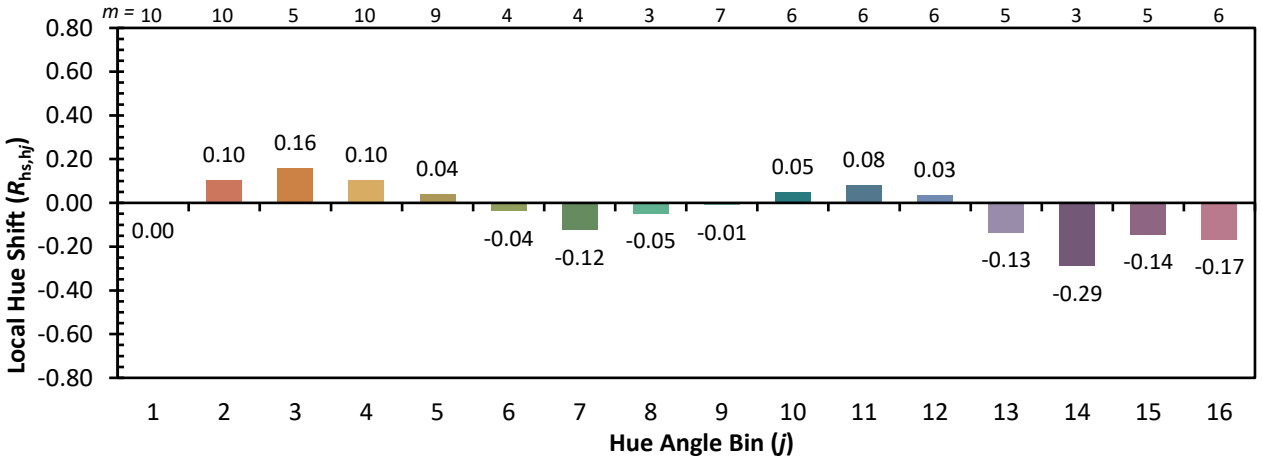


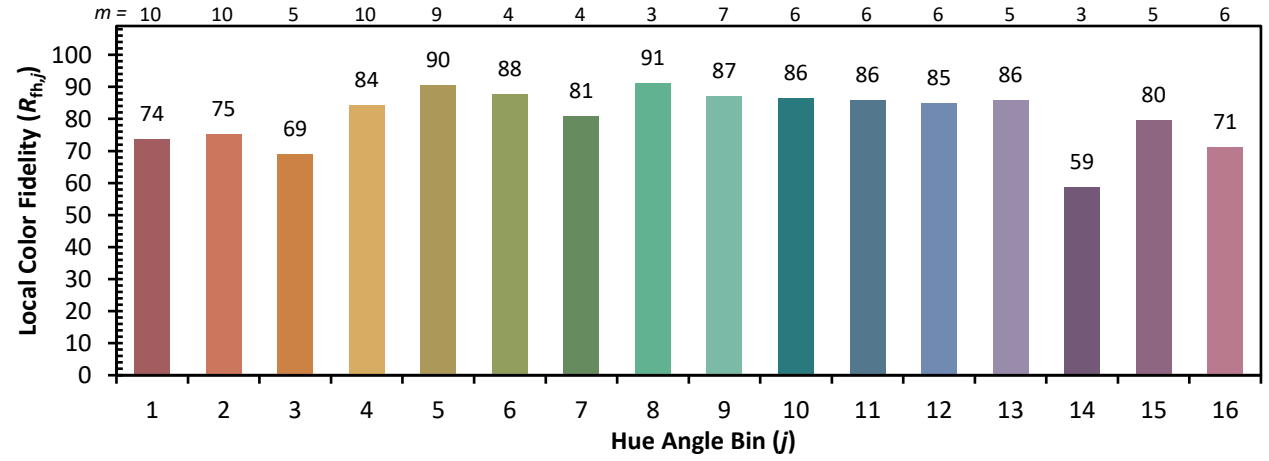
REPORT NUMBER: SP1-2501-332-7

TM-30-18

Color Rendition by Hue-Angle Bin



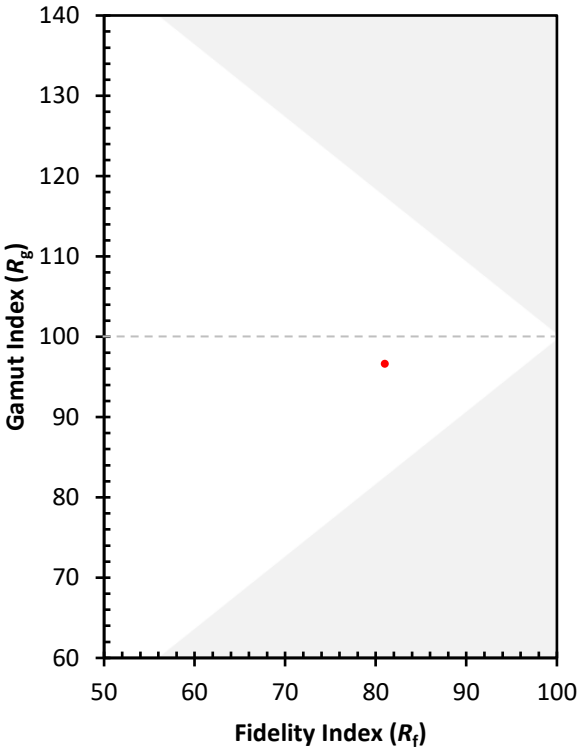


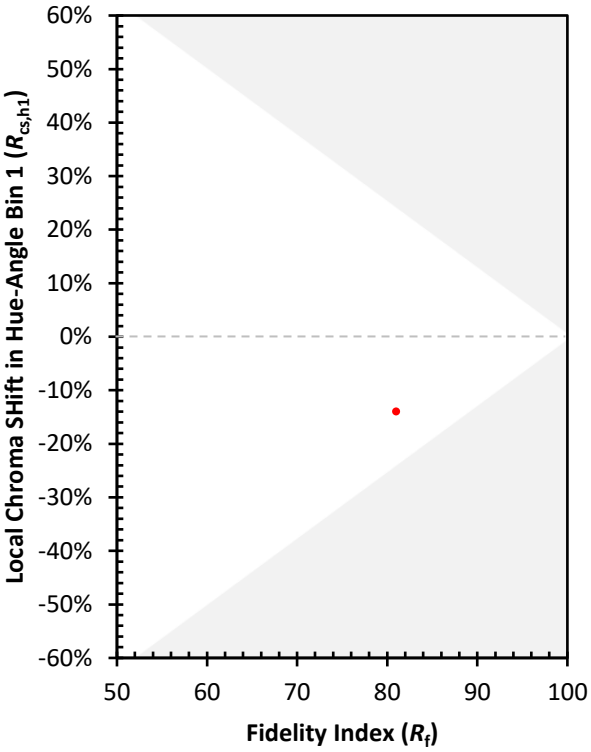


REPORT NUMBER: SP1-2501-332-7

TM-30-18

Measure Comparisons





(END OF REPORT)