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: P1045829

Luminaire Tested: **FFX-CLB-30-722-U-VM8-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045829
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-722-U-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 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:	2804.9 lumens
Efficiency:	N/A
Efficacy:	91.7 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):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

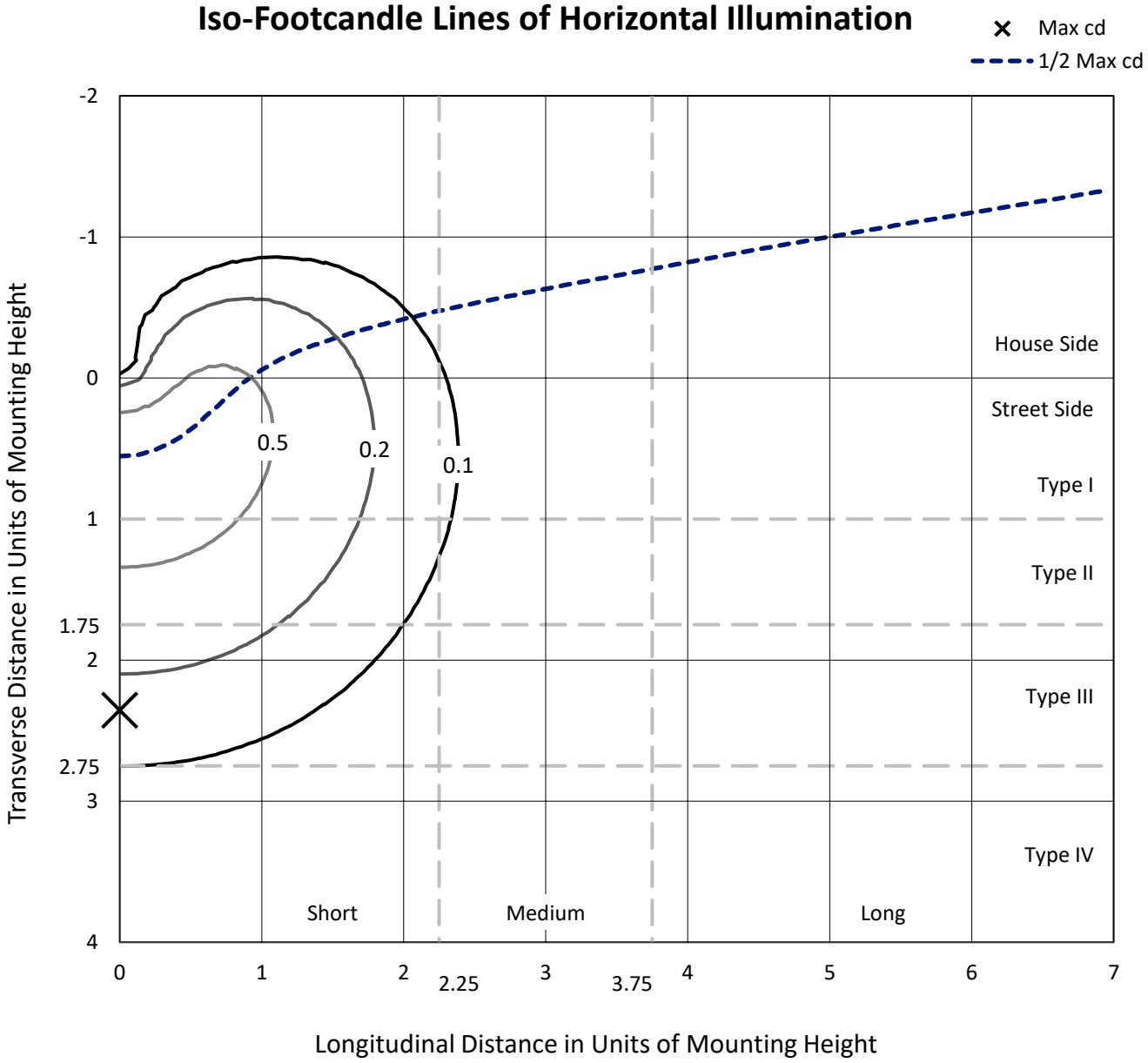


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CATALOG NUMBER: FFX-CLB-30-722-U-VM8-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



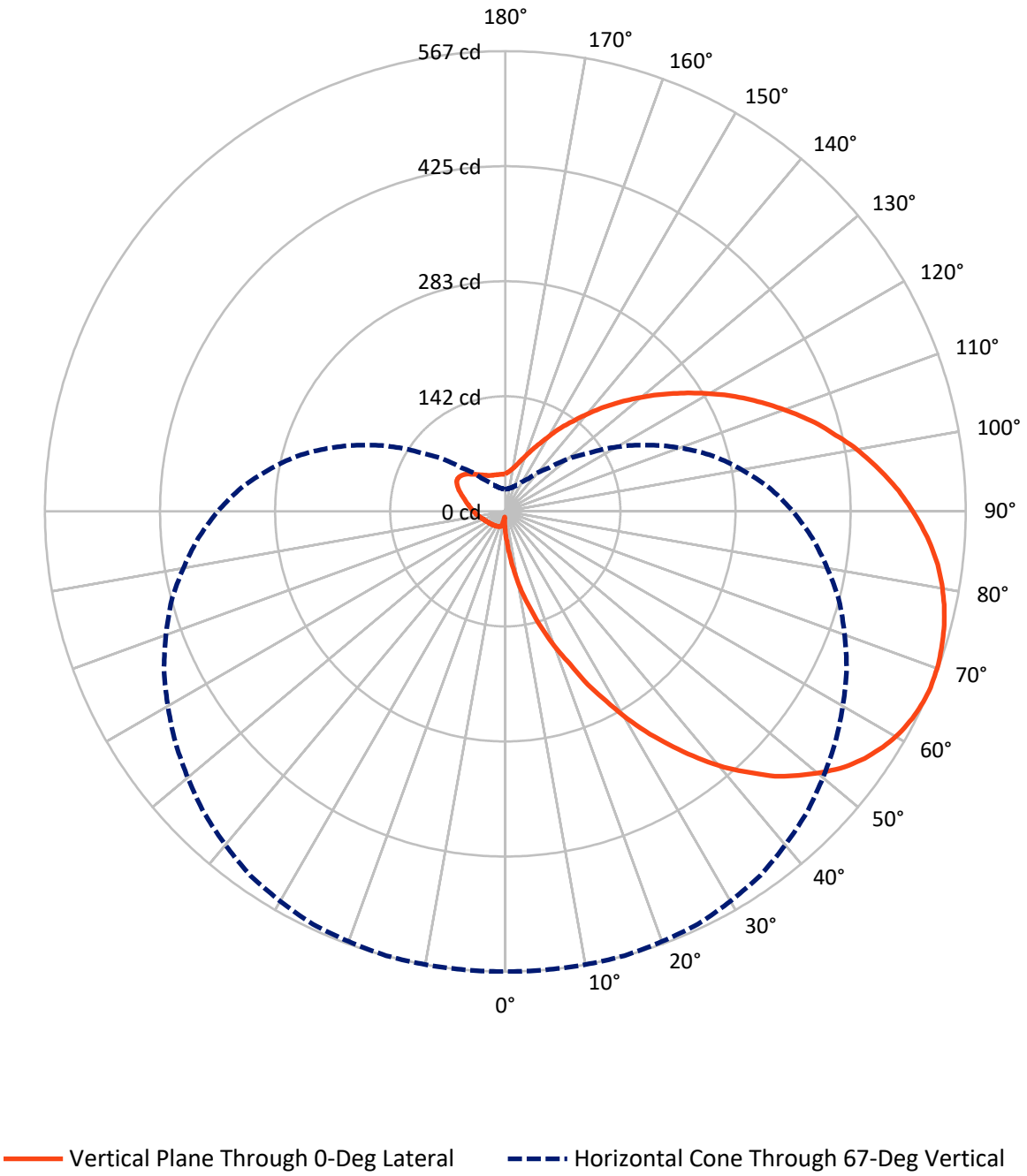
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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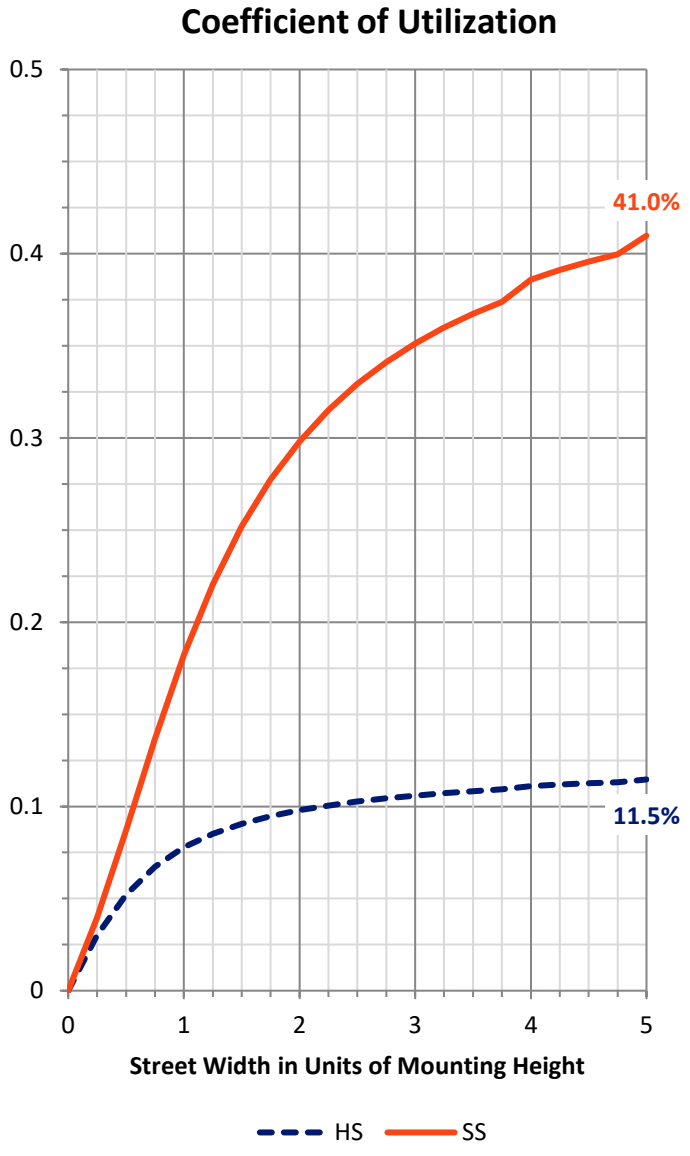
REPORT NUMBER: P1045829
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	347.3	330.9	678.2
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	1309.7	816.9	2126.6
	% Fixture	46.7	29.1	75.8
Total	Lumens	1657.0	1147.9	2804.9
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	23.3	0.8
20°-30°	65.1	2.3
30°-40°	130.2	4.6
40°-50°	204.6	7.3
50°-60°	269.1	9.6
60°-70°	310.7	11.1
70°-80°	327.9	11.7
80°-90°	322.4	11.5
90°-100°	296.0	10.6
100°-110°	256.0	9.1
110°-120°	210.1	7.5
120°-130°	160.2	5.7
130°-140°	107.9	3.8
140°-150°	63.9	2.3
150°-160°	33.6	1.2
160°-170°	15.7	0.6
170°-180°	4.6	0.2
0°-90°	1657.0	59.1
0°-180°	2804.9	100.0



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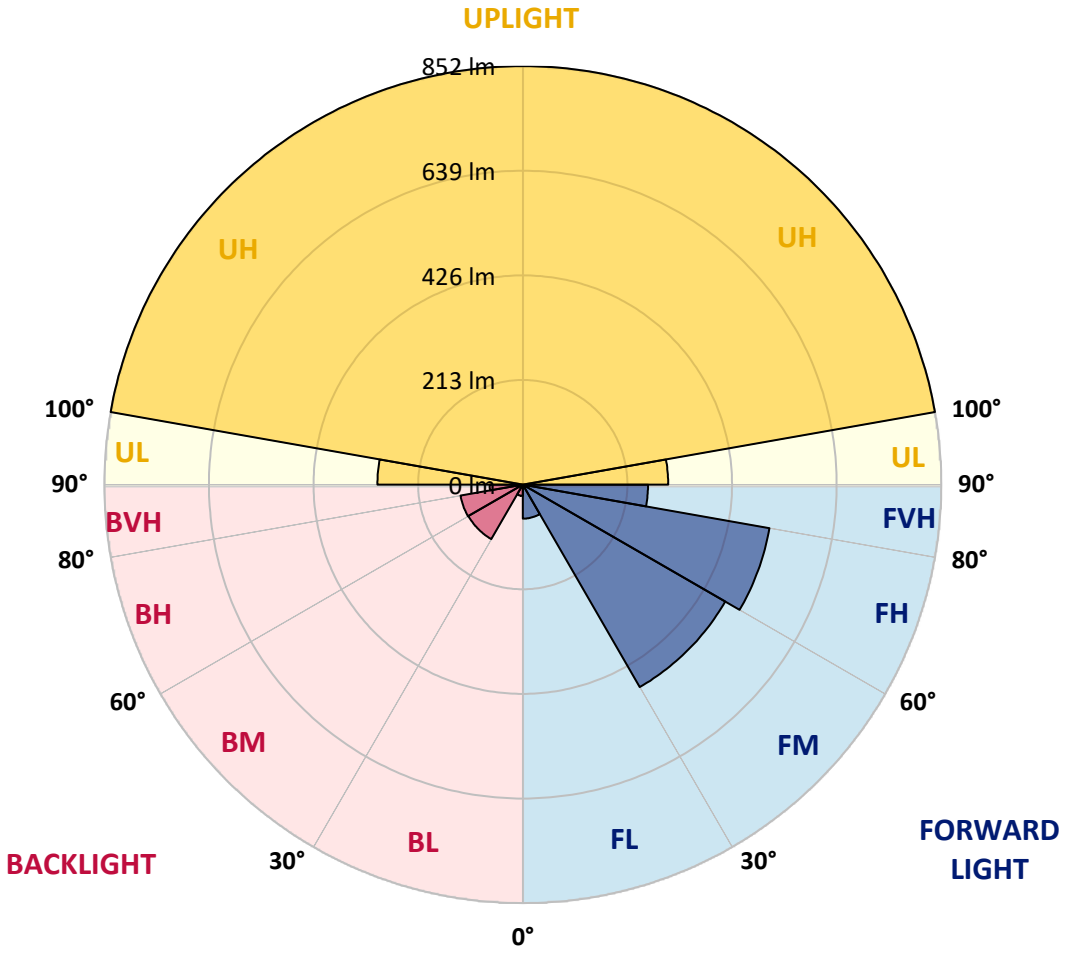
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	69.2	2.5			
FM	(30°-60°)	475.9	17.0			
FH	(60°-80°)	509.8	18.2			G0/660
FVH	(80°-90°)	254.8	9.1			G3/500
BL	(0°-30°)	22.9	0.8	B0/110		
BM	(30°-60°)	128.1	4.6	B0/220		
BH	(60°-80°)	128.8	4.6	B1/500		G1/500
BVH	(80°-90°)	67.6	2.4			G1/100
UL	(90°-100°)	296.0	10.6		U3/500	
UH	(100°-180°)	851.9	30.4		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	36.2	36.8	36.8	36.5	36.2	35.6	35.0	33.8	31.3	29.5	27.6
5°	52.5	52.5	52.8	52.5	51.2	50.0	47.3	45.1	41.1	38.1	34.7
7.5°	71.2	72.1	71.8	70.9	68.7	66.0	62.6	58.6	54.6	50.0	44.8
10°	92.1	91.8	91.8	90.5	88.1	84.4	80.7	76.1	70.3	64.4	57.7
12.5°	111.7	112.6	112.0	110.5	107.4	104.6	100.0	94.8	88.1	81.9	72.7
15°	132.9	133.5	133.5	132.6	129.8	125.8	120.6	115.7	106.8	98.2	89.3
17.5°	157.1	156.2	155.0	155.0	151.6	148.2	143.0	136.3	126.4	116.9	105.0
20°	181.4	181.1	179.5	178.6	176.5	171.5	164.8	157.1	147.3	136.6	122.4
22.5°	204.1	207.1	206.8	205.3	202.5	197.6	190.3	181.1	170.9	157.4	141.2
25°	236.3	234.5	234.8	233.2	230.8	224.9	217.6	206.8	194.6	179.5	161.1
27.5°	264.2	263.6	263.6	262.7	259.3	253.2	244.6	234.5	220.3	202.5	182.0
30°	296.4	294.9	294.3	293.4	290.0	283.2	274.3	261.8	246.4	228.3	204.1
32.5°	326.8	325.6	323.5	323.1	320.7	313.6	303.5	290.6	273.1	251.9	225.2
35°	356.0	356.6	355.7	354.1	350.8	344.0	334.2	318.5	301.4	276.8	248.0
37.5°	385.4	385.1	385.7	384.5	379.3	372.9	361.2	344.6	325.0	298.3	267.9
40°	414.3	412.8	412.4	411.2	407.5	401.1	387.9	371.0	348.9	321.3	286.9
42.5°	439.1	439.8	439.1	437.9	433.0	425.6	411.8	393.1	369.8	340.0	304.7
45°	465.2	464.3	464.0	464.0	457.6	449.9	434.8	415.5	389.4	357.5	320.1
47.5°	485.8	487.0	486.4	484.9	480.6	471.1	455.1	433.9	406.6	373.8	333.9
50°	505.1	506.7	507.0	505.4	500.2	489.8	473.2	449.6	422.0	387.3	345.9
52.5°	522.9	522.6	523.5	522.6	517.7	507.0	487.9	464.0	434.2	398.6	355.1
55°	536.7	536.7	537.3	536.1	531.5	519.5	499.9	474.4	444.1	407.5	363.0
57.5°	547.8	548.4	548.1	547.8	542.6	530.0	509.1	482.7	452.0	414.0	368.9
60°	556.4	556.7	556.7	556.1	550.8	537.7	516.5	489.2	457.2	419.5	373.5
62.5°	561.9	562.2	562.2	561.6	556.4	542.9	521.4	493.2	460.9	422.9	376.5
65°	565.3	565.6	565.6	565.0	559.7	545.9	523.8	495.3	462.8	424.7	378.4
67°	566.5	566.5	566.5	566.2	560.7	547.2	524.5	495.6	463.4	425.3	379.3
67.5°	566.2	566.2	566.5	565.9	560.7	546.9	524.1	495.6	463.1	425.3	379.3
70°	565.3	565.3	565.3	564.7	559.4	545.6	522.9	494.1	462.2	424.7	379.0
72.5°	561.9	562.2	562.2	561.6	556.4	542.9	520.2	491.3	459.7	422.9	378.1
75°	557.9	557.9	557.9	557.3	552.1	538.6	516.2	487.6	456.6	420.4	376.2
77.5°	552.1	552.1	552.1	551.5	546.2	533.0	511.0	483.0	452.6	417.0	374.1
80°	544.7	545.0	544.7	544.1	538.9	525.7	504.5	477.2	447.4	413.1	371.0
82.5°	536.1	536.4	536.1	534.9	530.0	517.4	496.2	469.5	441.3	407.8	367.3
85°	525.1	524.8	525.1	523.2	518.9	506.3	487.0	460.9	433.6	401.7	362.1
87.5°	512.5	512.8	512.2	511.3	506.0	493.8	475.4	451.1	424.7	394.3	356.0
90°	498.7	498.7	498.4	497.1	491.6	480.6	463.1	439.8	415.2	386.1	349.5
92.5°	484.6	484.3	483.3	482.7	477.8	466.5	449.6	428.7	405.7	377.8	342.8
95°	468.9	468.9	468.3	467.1	461.5	452.3	436.1	416.4	394.6	368.9	335.7
97.5°	452.3	452.0	451.7	449.9	445.0	435.8	422.6	403.5	383.6	359.4	327.7
100°	436.1	435.2	434.5	432.7	428.4	419.5	406.9	390.3	371.0	348.9	319.2
102.5°	417.0	417.0	416.7	414.9	409.4	402.0	390.7	375.9	359.4	338.2	309.9
105°	400.2	398.6	398.0	396.2	391.9	383.9	374.4	361.5	346.2	326.5	300.7
107.5°	381.1	379.9	379.6	376.8	373.5	366.1	358.1	346.2	333.3	315.8	291.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*361.8*	361.2	360.9	358.1	353.8	348.9	340.6	331.1	319.8	303.8	282.3
112.5°	*342.8*	342.2	342.2	340.0	336.0	329.9	324.1	315.8	305.7	291.8	271.9
115°	*324.1*	323.1	322.8	320.4	316.4	311.8	306.0	300.1	291.5	279.9	261.8
117.5°	*305.3*	304.1	304.4	302.3	299.2	294.6	289.1	285.1	277.7	267.0	251.6
120°	*286.0*	286.3	286.3	283.6	280.8	277.1	272.5	268.5	263.6	254.1	240.0
122.5°	*267.6*	268.2	268.2	266.4	263.0	259.6	256.6	252.9	248.6	241.2	228.6
125°	*249.2*	250.4	249.8	248.3	245.5	241.8	239.7	236.6	233.2	227.1	216.0
127.5°	*232.3*	232.3	230.8	231.1	228.3	225.2	223.4	221.3	217.9	212.1	203.2
130°	*214.8*	215.1	215.4	213.6	211.1	208.7	206.8	205.9	203.2	198.2	189.3
132.5°	*198.9*	198.9	198.2	197.0	194.9	193.0	193.0	190.3	188.1	183.5	175.8
135°	*183.2*	182.9	182.9	181.7	180.1	179.2	177.1	175.8	173.7	169.4	163.6
137.5°	*167.9*	168.5	167.9	166.9	165.4	164.2	162.6	162.3	159.3	156.2	149.8
140°	*153.1*	154.1	153.1	152.8	151.6	150.1	149.1	147.9	147.0	143.0	137.5
142.5°	*139.3*	139.9	139.3	139.0	138.1	136.9	136.3	135.3	133.2	130.7	126.1
145°	*127.4*	127.0	127.0	126.7	125.5	124.6	123.7	123.1	121.8	119.4	114.2
147.5°	*115.7*	114.8	115.4	114.8	113.9	113.2	112.9	111.7	110.5	108.0	104.3
150°	*103.7*	104.3	104.0	103.7	102.8	102.8	101.9	101.0	100.0	97.3	94.8
152.5°	*93.9*	93.9	94.2	93.6	93.3	92.4	91.8	91.4	90.2	88.4	85.6
155°	*85.6*	85.3	85.3	85.3	84.7	83.8	83.5	82.9	82.2	80.1	77.6
157.5°	*77.6*	77.6	77.6	77.3	77.3	76.4	76.1	75.2	74.3	73.0	70.9
160°	*70.9*	70.9	70.6	70.6	70.3	70.0	69.4	68.4	67.8	66.9	65.1
162.5°	*65.4*	65.1	65.1	64.8	64.4	63.8	63.5	63.2	62.3	61.4	59.8
165°	*60.1*	60.1	60.1	59.8	59.5	59.2	58.9	58.3	57.7	57.1	56.2
167.5°	*56.2*	56.2	56.2	55.9	55.9	55.5	55.2	54.6	54.0	53.4	52.8
170°	*53.1*	53.1	53.1	52.8	52.5	52.2	51.9	51.6	51.2	50.6	50.3
172.5°	*50.6*	50.6	50.6	50.6	50.0	49.7	49.4	49.4	49.1	48.8	48.5
175°	*48.5*	48.5	48.5	48.5	48.2	47.9	47.6	47.6	47.3	47.0	46.6
177.5°	*47.3*	47.3	47.3	47.0	47.0	46.6	46.3	46.3	46.0	46.0	45.7
180°	*45.7*	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	26.4	25.2	23.0	21.2	19.6	18.1	17.2	16.3	16.3	16.6	16.0
5°	31.9	29.8	25.8	21.5	17.8	14.7	12.3	10.1	8.3	7.4	7.4
7.5°	42.3	39.9	34.4	28.8	23.6	18.7	14.7	11.4	8.6	7.1	6.8
10°	54.3	51.6	43.9	37.1	30.7	24.6	19.3	14.7	11.7	10.1	9.8
12.5°	68.1	64.4	55.2	46.6	38.4	30.7	24.2	19.0	16.0	14.4	14.1
15°	84.1	78.3	67.8	57.1	46.3	36.8	29.2	23.3	19.9	17.8	17.8
17.5°	98.5	92.4	79.8	66.0	53.7	42.7	33.4	26.4	21.8	19.6	19.3
20°	115.1	106.8	91.8	75.8	60.8	47.3	36.2	28.2	22.7	19.9	19.9
22.5°	132.0	123.4	105.0	85.6	67.5	51.6	39.0	29.5	23.3	20.3	19.9
25°	151.9	140.2	118.1	96.4	75.2	56.2	41.4	30.7	23.9	20.9	20.3
27.5°	171.2	159.3	133.5	107.1	82.2	60.8	43.6	31.9	24.6	21.2	20.9
30°	191.5	176.8	147.6	118.1	89.6	64.8	45.7	32.8	24.9	21.5	20.9
32.5°	211.7	195.5	163.3	128.9	96.7	68.4	47.6	33.4	25.5	21.8	21.2
35°	232.3	214.8	178.3	139.6	103.1	71.8	48.8	34.1	25.8	21.8	21.5
37.5°	250.1	231.7	192.4	149.4	108.6	74.6	50.0	34.7	25.8	22.1	21.8
40°	267.9	248.0	204.7	157.7	113.5	76.7	50.9	35.0	26.1	22.4	22.1
42.5°	283.9	261.8	215.4	165.1	117.5	78.3	51.2	35.0	26.4	22.7	22.4
45°	298.3	275.9	225.6	172.2	120.9	79.2	51.6	35.3	26.7	23.0	22.7
47.5°	311.5	287.5	234.8	178.0	123.7	80.1	51.6	35.3	27.0	23.6	23.0
50°	322.5	297.4	242.4	182.9	125.5	80.4	51.2	35.3	27.3	23.9	23.6
52.5°	331.1	305.7	248.9	186.3	126.7	80.1	50.9	35.3	27.6	24.2	23.9
55°	338.5	312.4	253.5	189.0	127.0	79.5	50.6	35.3	27.9	24.9	24.6
57.5°	344.0	317.3	257.5	191.2	127.4	78.9	50.0	35.3	28.2	25.2	24.9
60°	348.3	321.6	260.5	192.4	127.0	77.9	49.7	35.3	28.5	25.8	25.5
62.5°	351.4	324.1	262.4	192.7	126.1	77.0	49.1	35.3	28.8	26.4	26.1
65°	353.2	325.9	263.9	193.0	125.2	76.1	48.8	35.6	29.5	27.3	27.0
67°	*353.8*	*326.8*	*264.2*	*193.0*	*124.6*	*75.5*	*48.8*	*35.9*	*30.1*	*27.6*	*27.3*
67.5°	354.1	326.8	264.2	192.7	124.3	75.5	48.8	35.9	30.1	27.9	27.6
70°	353.8	326.8	264.2	192.1	123.4	74.9	48.5	36.5	31.0	28.8	28.5
72.5°	353.2	326.2	263.6	191.2	122.1	74.3	48.8	37.1	31.9	29.8	29.5
75°	351.7	325.0	262.4	190.0	121.2	73.7	49.1	37.7	32.8	31.0	30.7
77.5°	350.1	323.5	261.5	188.7	120.3	73.7	49.4	38.7	34.1	32.2	31.9
80°	347.4	321.3	259.6	187.5	119.4	73.3	50.0	39.9	35.3	33.4	33.1
82.5°	344.0	318.2	257.2	185.7	118.5	73.3	50.9	40.8	36.5	34.7	34.4
85°	339.4	314.2	254.1	183.2	117.5	73.7	51.6	42.0	37.7	36.2	35.9
87.5°	334.2	309.3	250.4	181.1	116.6	73.7	52.5	43.3	39.0	37.4	37.4
90°	328.1	304.1	246.1	178.6	115.7	74.3	53.7	44.5	40.5	39.0	39.0
92.5°	322.5	298.6	242.7	176.1	115.1	74.9	54.9	46.0	42.0	40.5	40.5
95°	315.2	292.8	237.8	174.0	114.8	75.5	56.2	47.6	43.9	42.3	42.0
97.5°	308.1	286.3	233.5	171.5	114.5	76.7	57.7	49.4	45.4	43.9	43.9
100°	300.4	279.9	228.6	169.4	114.5	78.3	59.8	51.2	47.6	46.0	45.7
102.5°	293.1	272.8	223.7	167.2	115.1	79.8	62.0	53.4	49.7	48.2	47.9
105°	284.8	265.4	219.4	165.4	115.7	81.9	64.4	56.2	52.2	50.6	50.3
107.5°	276.5	258.7	214.5	163.9	116.9	84.7	67.5	58.9	54.9	53.1	52.8

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

Scaled Data Report

REPORT NUMBER: P1045829
CATALOG NUMBER: FFX-CLB-30-722-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	267.6	251.3	210.2	162.6	118.8	87.8	70.9	62.6	58.0	56.2	55.9
112.5°	259.3	244.0	205.6	161.7	120.6	91.4	74.9	66.0	61.7	59.2	58.9
115°	250.1	236.3	201.3	160.8	122.8	95.1	79.2	69.7	65.1	62.6	62.6
117.5°	241.2	228.3	196.4	159.9	124.9	99.1	83.2	73.7	68.4	66.0	65.7
120°	230.8	219.7	191.2	158.0	126.1	102.2	86.5	77.0	71.2	68.7	68.4
122.5°	220.3	210.2	184.4	155.3	126.4	104.0	89.0	79.8	73.7	70.9	70.6
125°	208.4	199.8	177.4	151.0	125.5	105.0	90.5	80.7	74.6	71.5	71.2
127.5°	196.7	188.4	169.1	145.8	123.1	104.0	90.2	80.7	74.6	71.2	70.9
130°	184.1	176.8	159.3	139.3	119.1	101.9	89.0	79.5	73.3	70.0	69.7
132.5°	171.2	165.1	149.8	132.3	114.2	98.5	86.2	77.3	71.2	68.1	67.8
135°	158.7	153.1	139.9	124.3	108.9	94.5	83.2	74.6	68.4	65.7	65.7
137.5°	146.7	141.5	129.8	116.6	102.8	89.9	79.5	71.2	66.0	63.2	62.6
140°	134.4	130.1	120.0	108.3	96.4	85.0	75.5	67.8	62.9	60.5	60.1
142.5°	123.1	119.4	110.8	101.3	90.2	80.4	71.5	65.1	60.5	58.0	57.7
145°	112.3	108.9	101.6	93.0	84.1	75.5	67.5	61.7	57.7	55.9	55.5
147.5°	101.6	99.4	93.3	86.2	77.9	70.3	63.8	58.9	55.2	53.7	53.4
150°	92.7	89.9	85.3	78.9	72.4	66.0	60.5	56.2	53.4	51.9	51.9
152.5°	83.8	82.2	77.6	72.7	67.2	62.0	57.1	53.7	51.6	50.3	50.3
155°	77.0	74.9	70.9	66.9	62.3	58.0	54.6	51.9	50.0	49.1	48.8
157.5°	70.0	68.7	65.7	62.0	58.6	55.2	52.5	50.3	48.8	48.2	47.9
160°	64.1	63.2	60.8	58.0	55.2	52.8	50.6	49.1	47.9	47.3	47.3
162.5°	59.2	58.6	56.5	54.6	52.5	50.6	49.1	47.9	47.3	47.0	47.0
165°	55.5	54.9	53.4	51.9	50.6	49.1	48.2	47.3	46.6	46.6	46.6
167.5°	52.5	51.9	50.9	50.0	49.1	47.9	47.3	46.6	46.6	46.3	46.3
170°	50.0	49.7	48.8	48.2	47.6	47.0	46.6	46.3	46.0	46.0	46.0
172.5°	48.2	47.9	47.3	47.0	46.3	46.0	46.0	46.0	46.0	46.0	46.0
175°	46.6	46.3	46.3	46.0	45.7	45.7	45.4	45.7	45.7	45.7	45.7
177.5°	45.7	45.7	45.4	45.4	45.4	45.4	45.4	45.7	45.7	46.0	46.0
180°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7

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

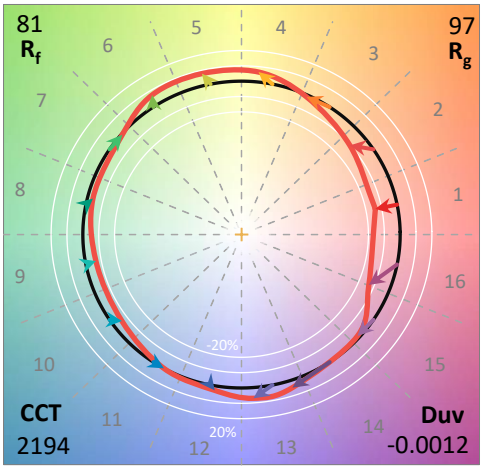
Test Information

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

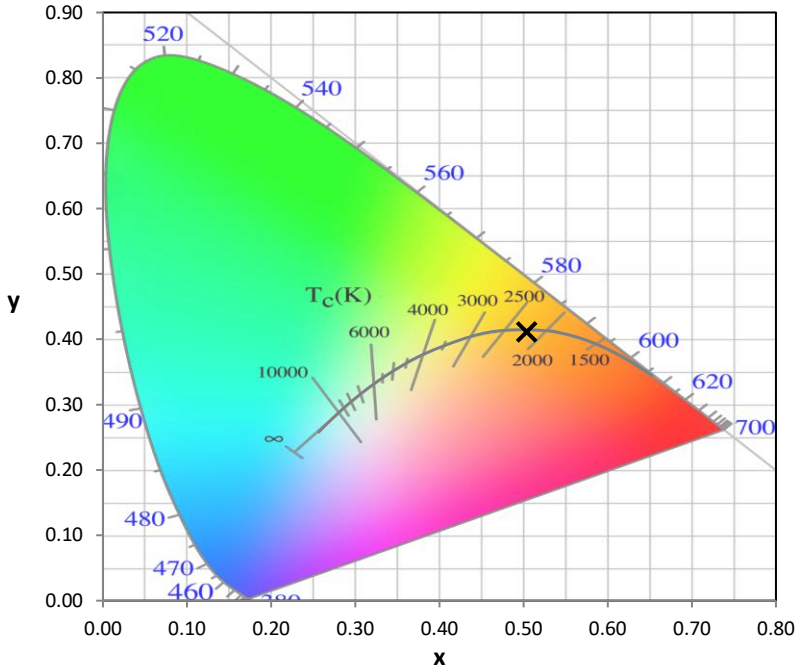
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

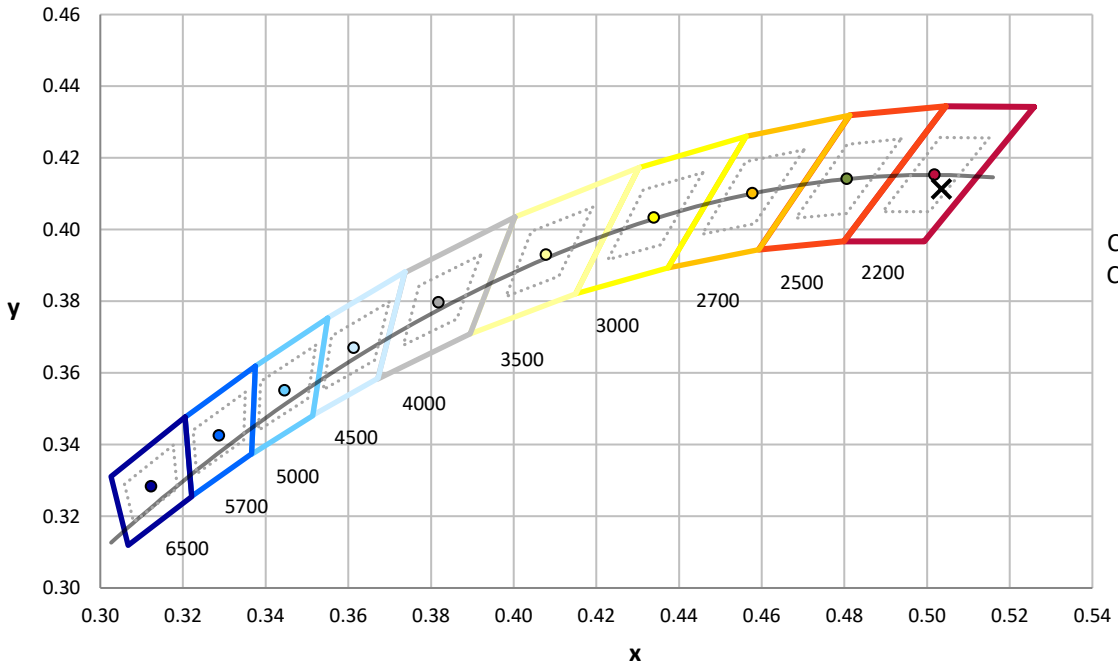
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

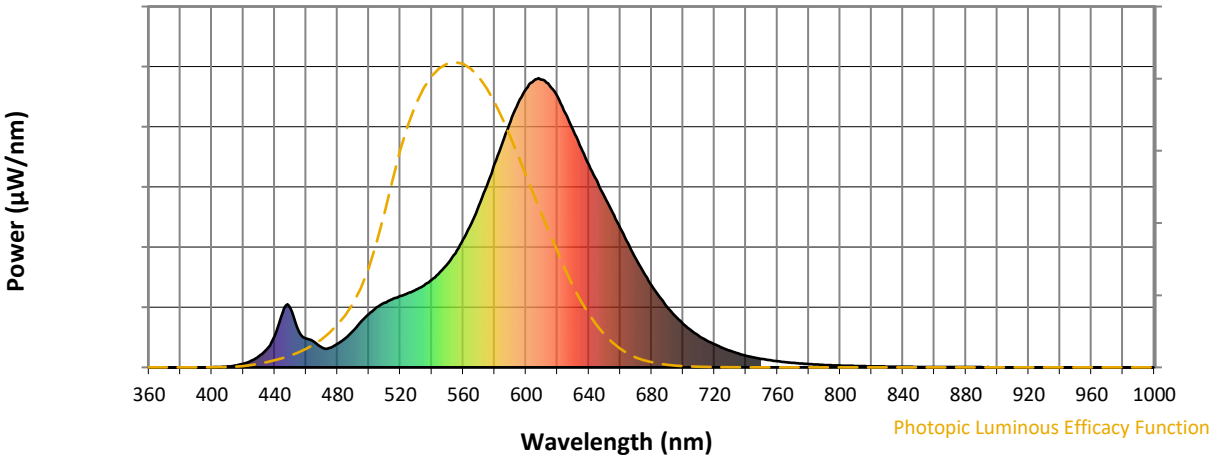


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

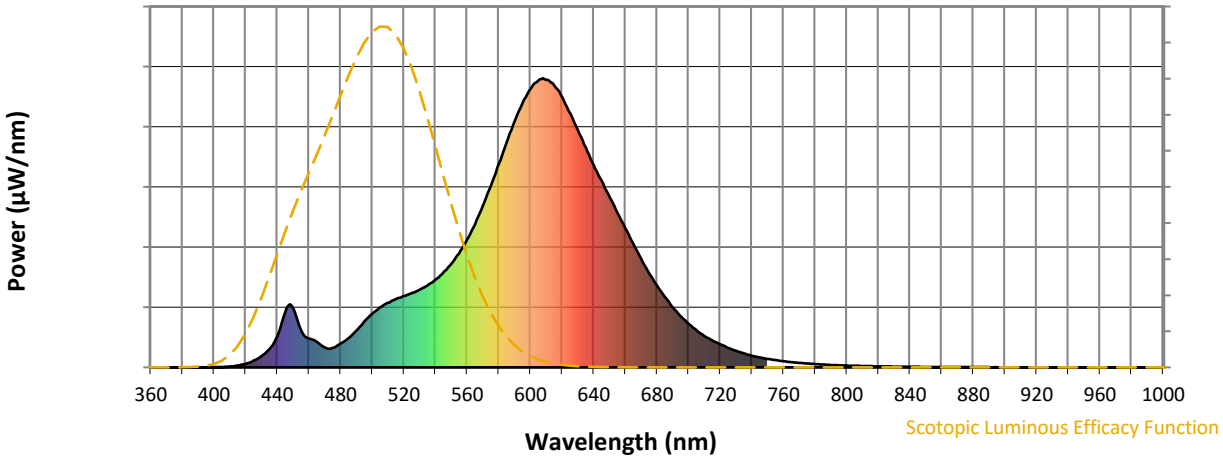


Photopic Lumens: NR

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

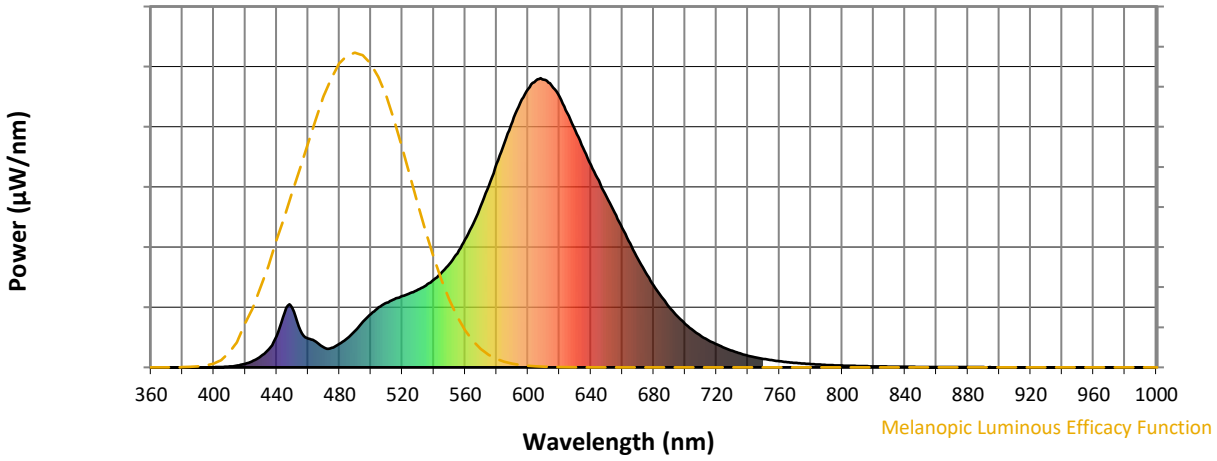


Scotopic Lumens: NR **S/P: 0.96**

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			

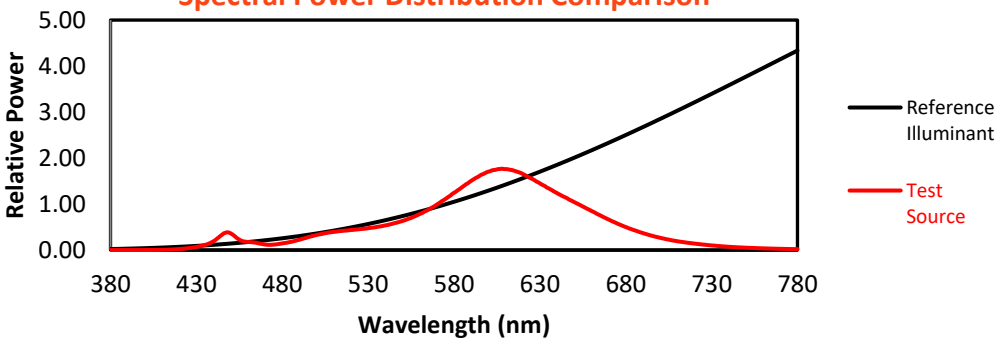
REPORT NUMBER: SP1-2501-332-7

TM-30-18

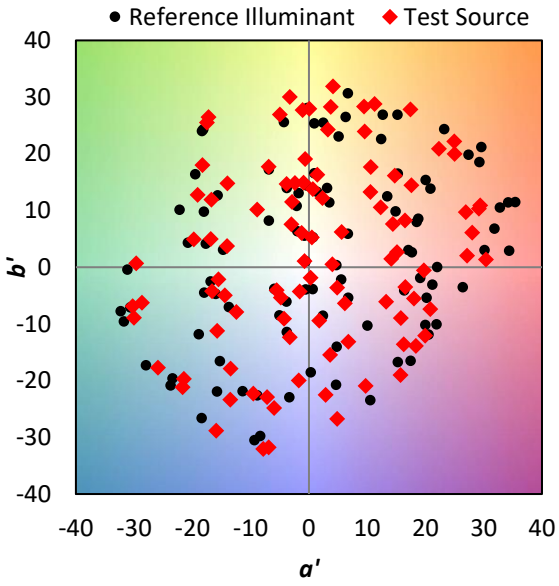
Summary

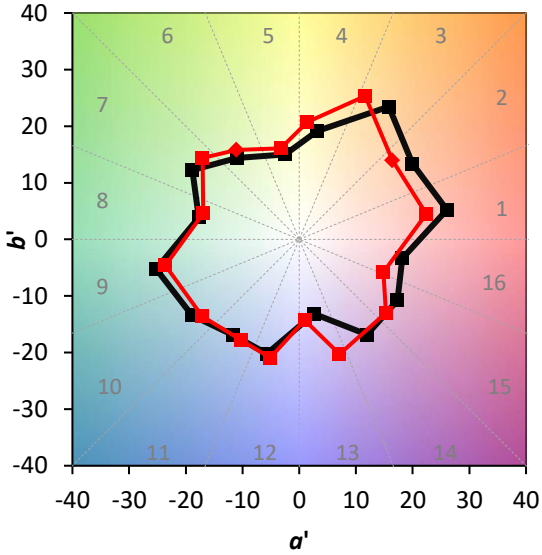
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

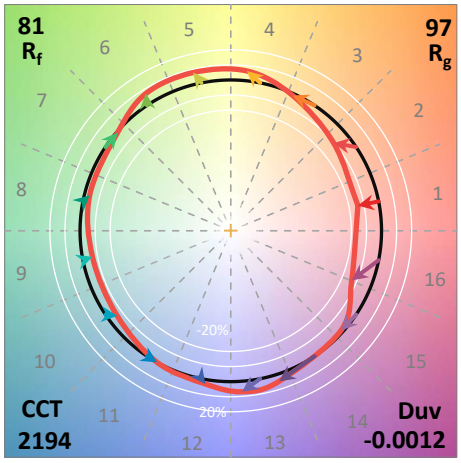
Spectral Power Distribution Comparison

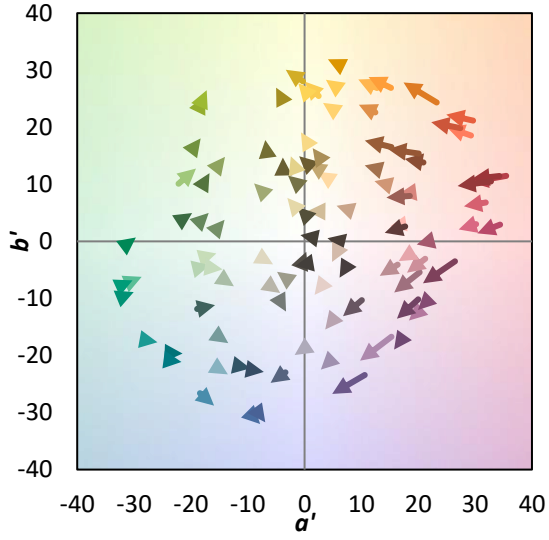


Color Vector Graphics







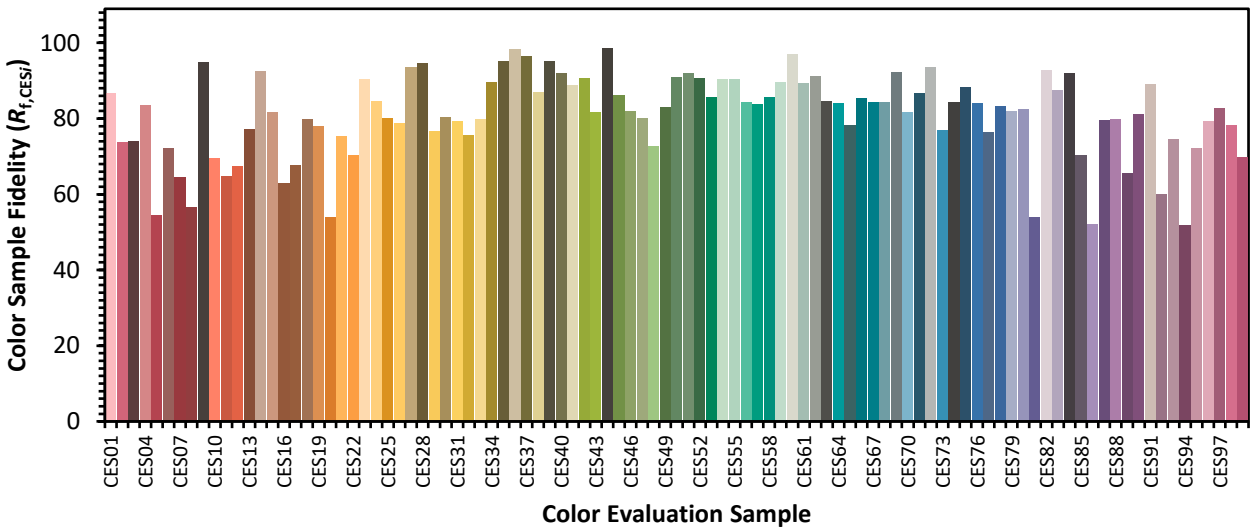


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

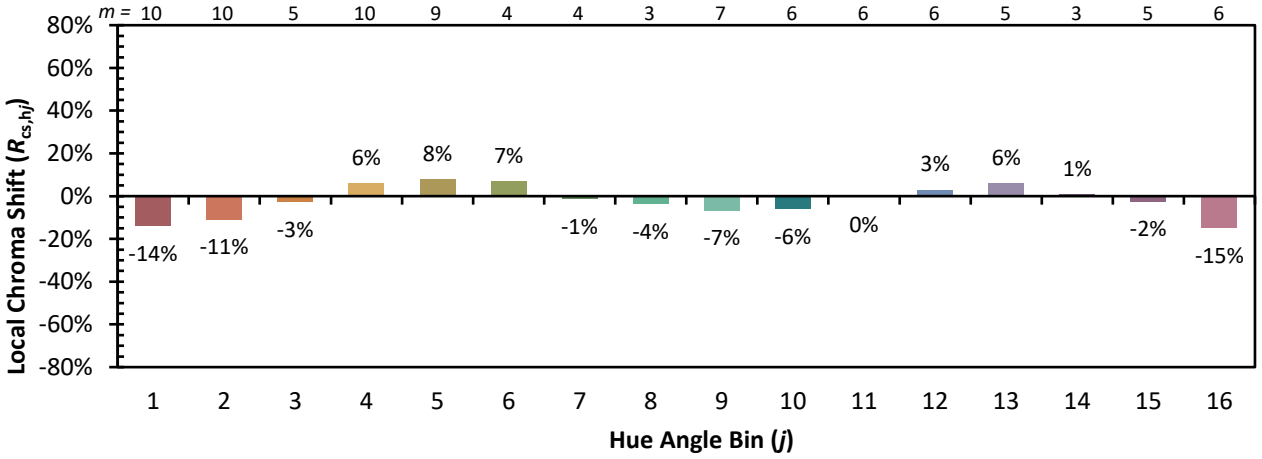
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 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
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CES25 = 73	CES50 = 91	CES75 = 88	

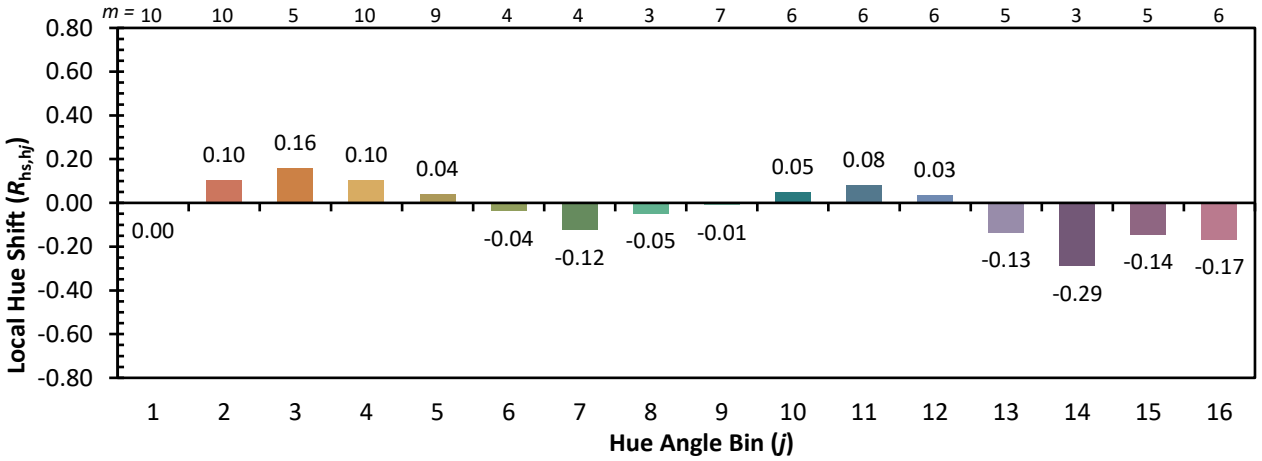


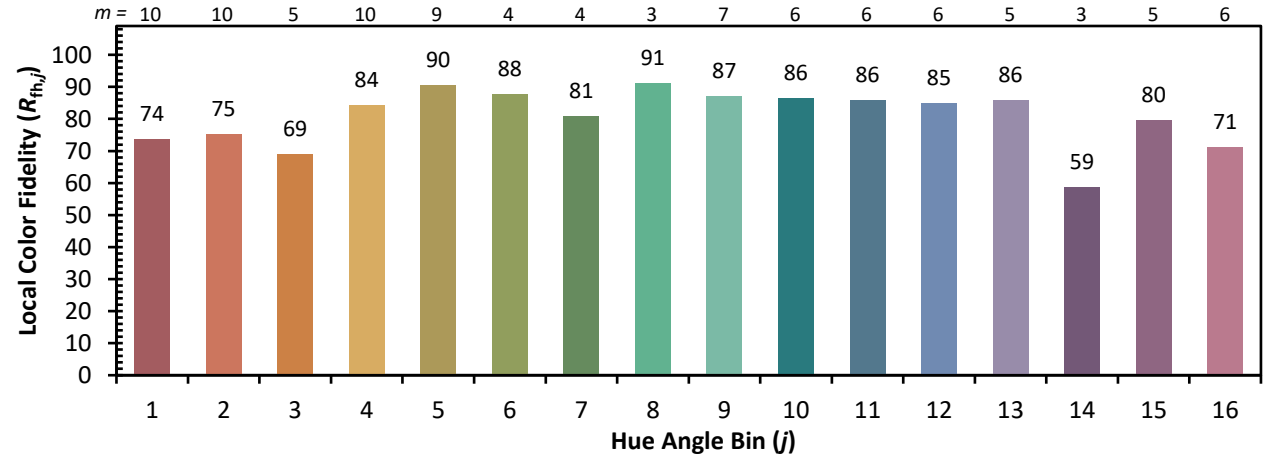
REPORT NUMBER: SP1-2501-332-7

TM-30-18

Color Rendition by Hue-Angle Bin



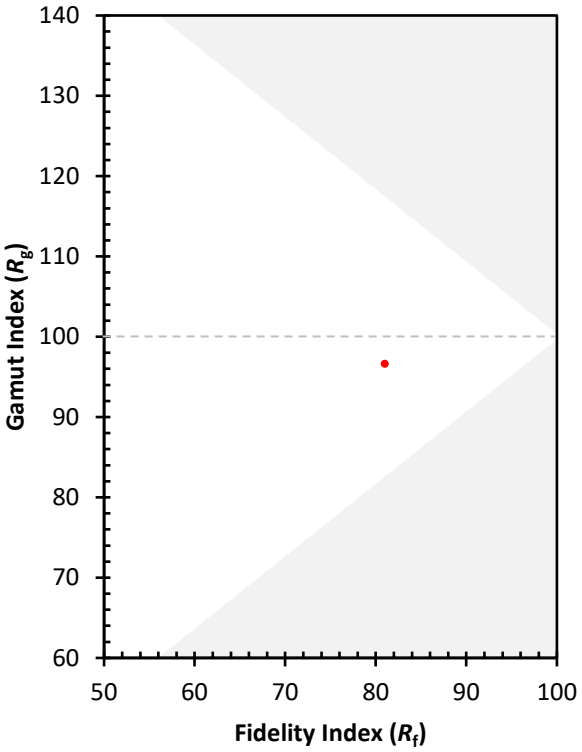


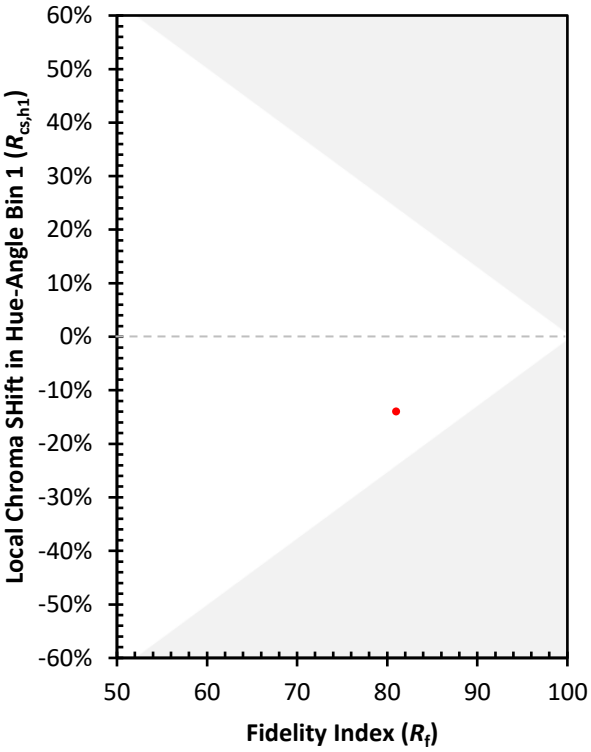


REPORT NUMBER: SP1-2501-332-7

TM-30-18

Measure Comparisons





(END OF REPORT)