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: P1223913

Luminaire Tested: **FFX-CLB-20-740-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:	P1223913
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-740-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3272.6 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

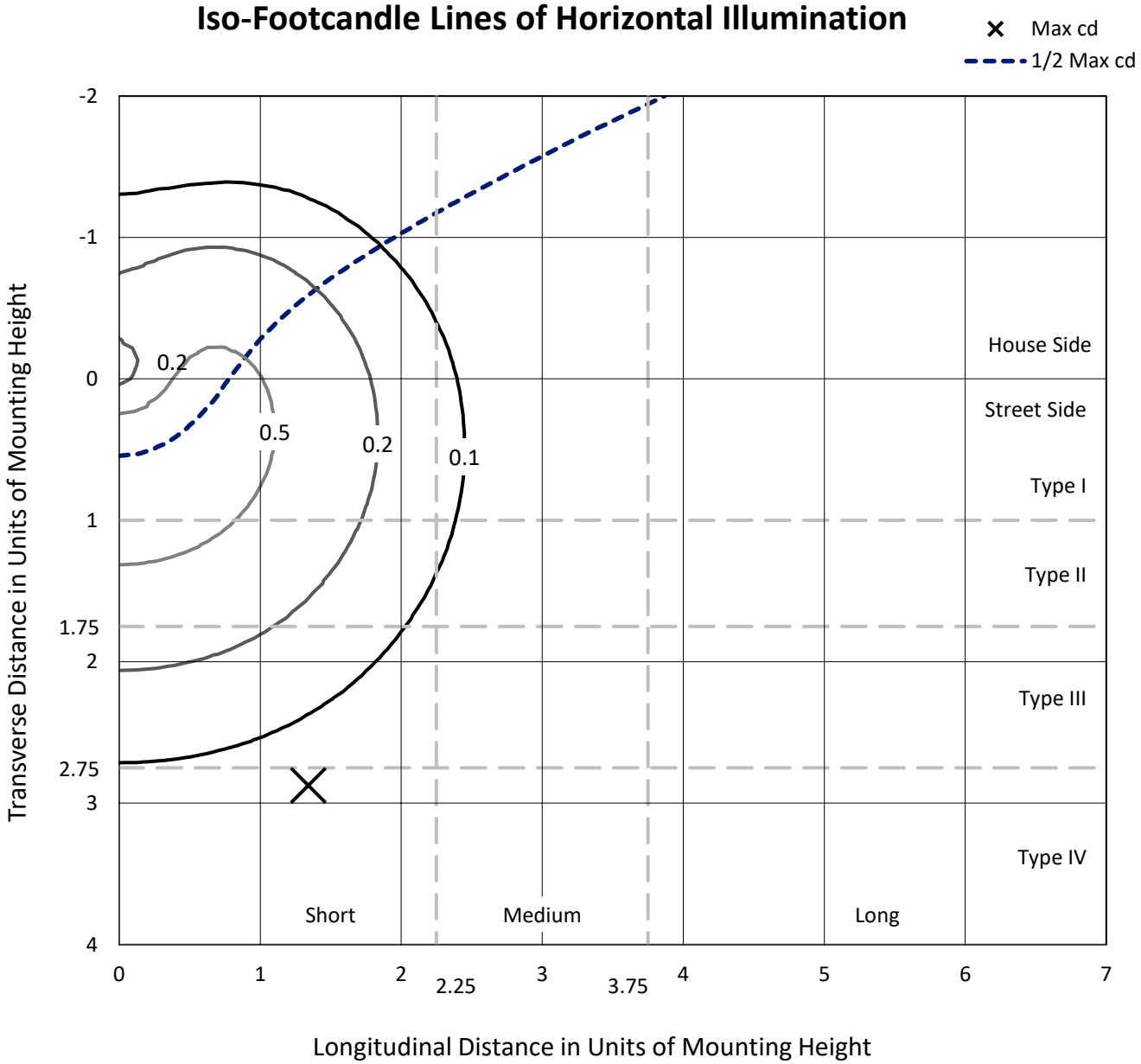


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Iso-Footcandle Lines of Horizontal Illumination



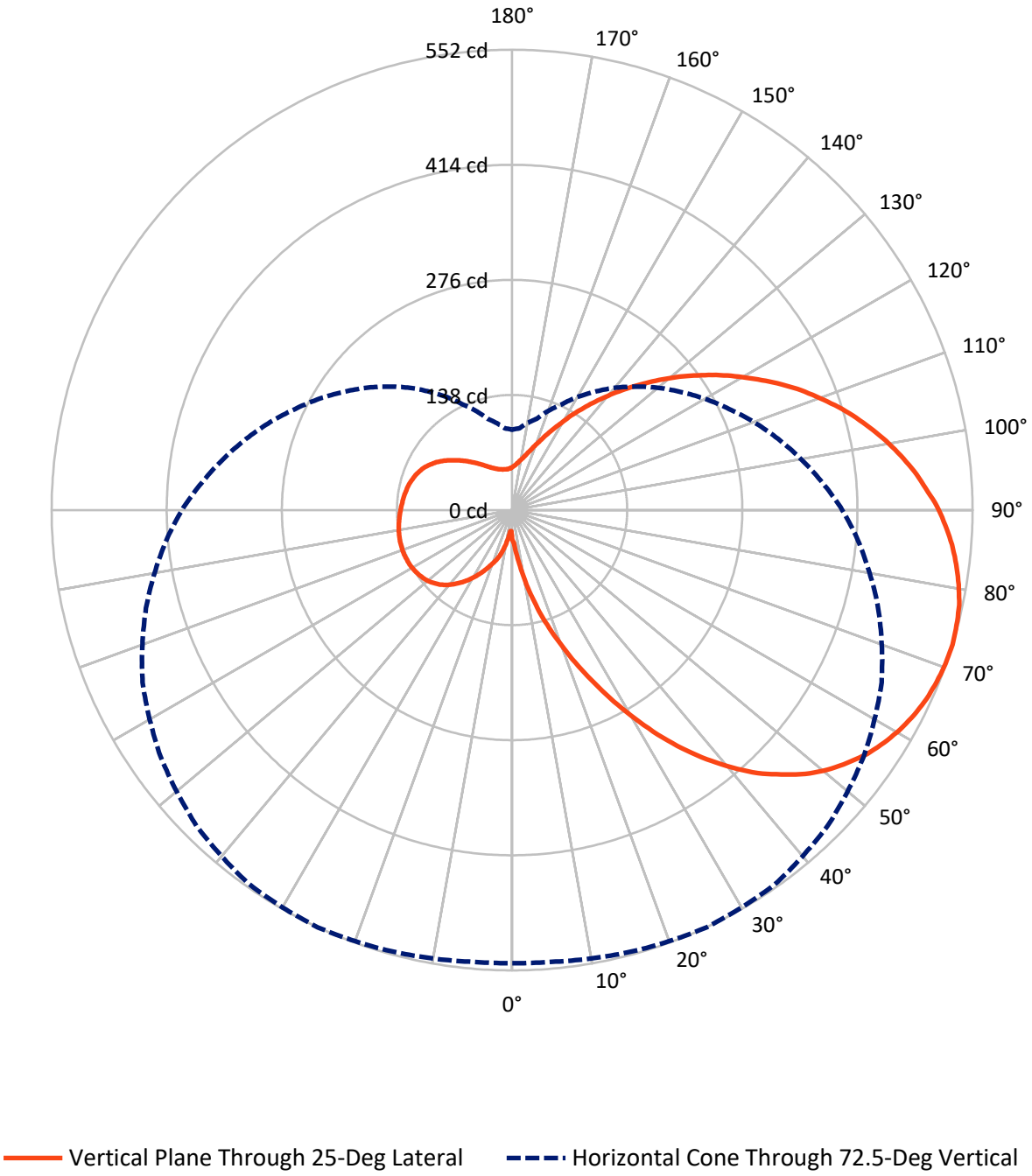
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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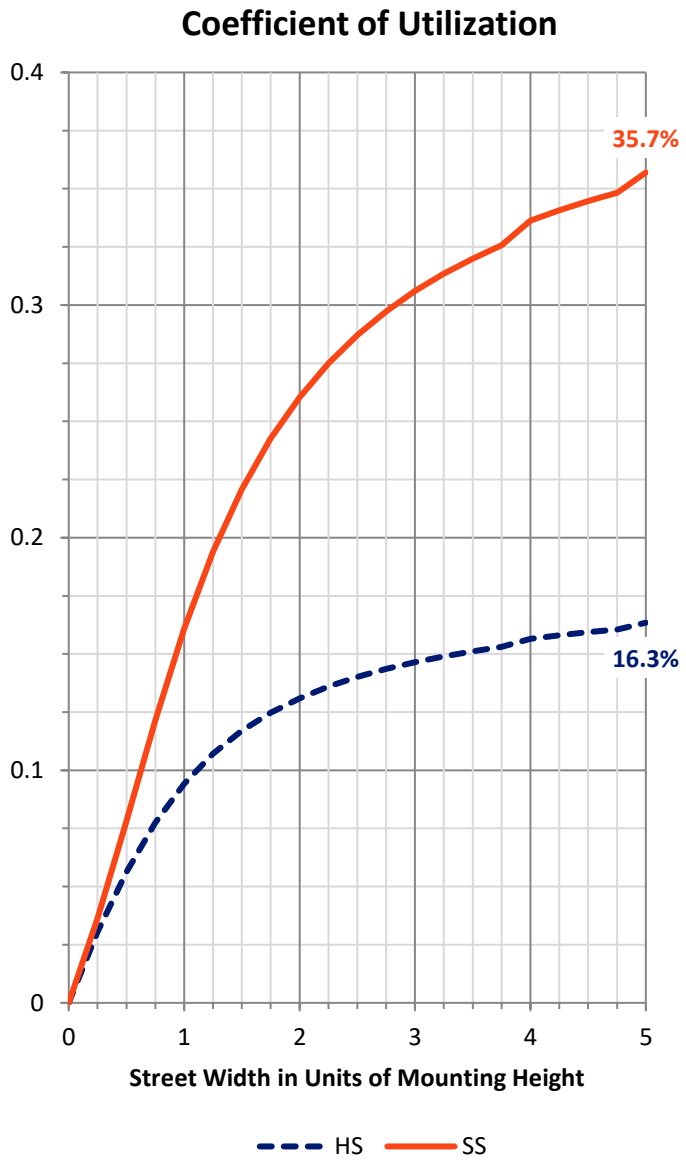
REPORT NUMBER: P1223913
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	589.6	451.2	1040.9
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	1333.6	898.2	2231.7
	% Fixture	40.7	27.4	68.2
Total	Lumens	1923.2	1349.4	3272.6
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.1
10°-20°	27.8	0.8
20°-30°	75.7	2.3
30°-40°	150.0	4.6
40°-50°	234.1	7.2
50°-60°	306.9	9.4
60°-70°	358.1	10.9
70°-80°	384.3	11.7
80°-90°	381.7	11.7
90°-100°	354.1	10.8
100°-110°	308.4	9.4
110°-120°	249.5	7.6
120°-130°	183.7	5.6
130°-140°	121.5	3.7
140°-150°	71.9	2.2
150°-160°	37.8	1.2
160°-170°	17.5	0.5
170°-180°	5.0	0.2
0°-90°	1923.2	58.8
0°-180°	3272.6	100.0



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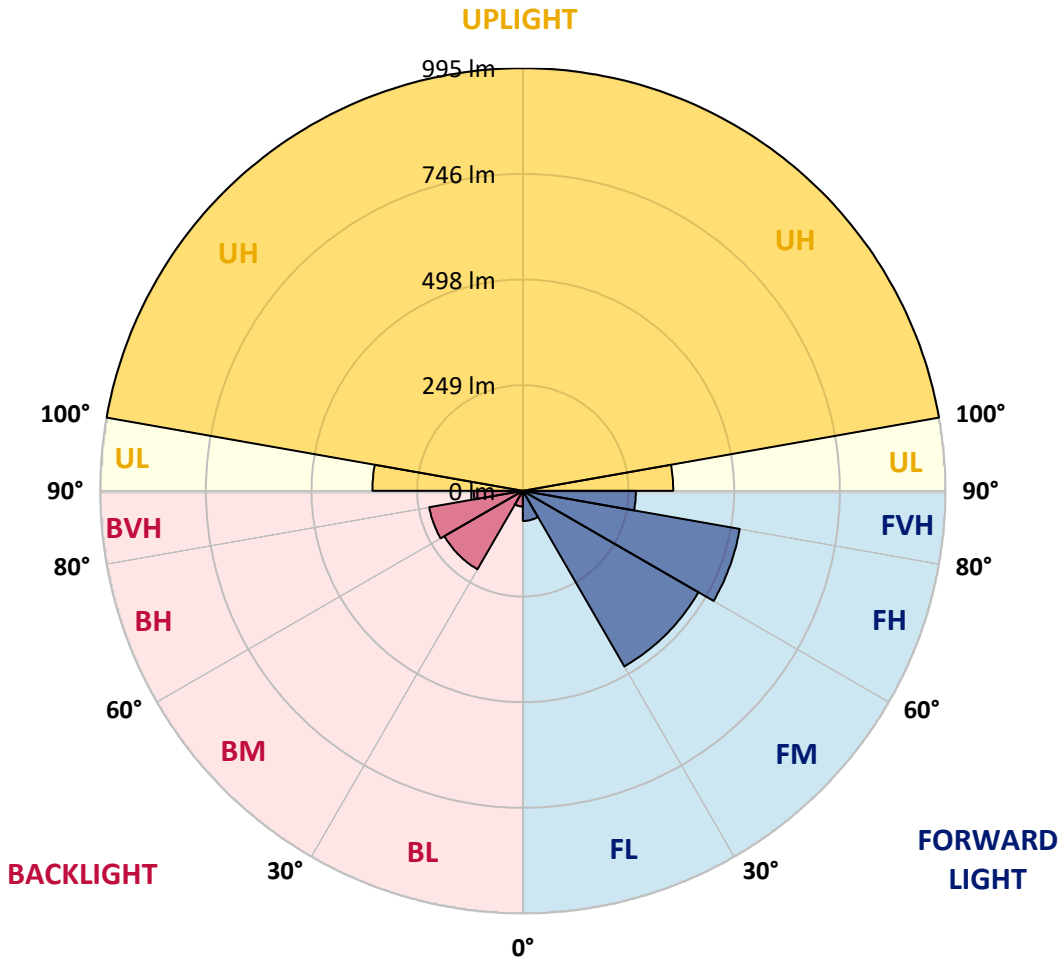
Scaled Data Report

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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°)	71.1	2.2			
FM	(30°-60°)	477.6	14.6			
FH	(60°-80°)	518.7	15.9			G0/660
FVH	(80°-90°)	266.1	8.1			G3/500
BL	(0°-30°)	37.0	1.1	B0/110		
BM	(30°-60°)	213.4	6.5	B0/220		
BH	(60°-80°)	223.6	6.8	B1/500		G1/500
BVH	(80°-90°)	115.6	3.5			G2/225
UL	(90°-100°)	354.1	10.8		U3/500	
UH	(100°-180°)	995.3	30.4		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	38.2	38.2	38.9	39.1	39.3	39.3	39.5	39.3	38.4	37.3	36.7
5°	52.1	51.7	51.4	51.7	51.7	50.8	49.5	47.0	45.3	42.4	41.3
7.5°	69.8	69.3	68.7	68.0	68.0	65.8	63.6	61.6	58.5	54.5	53.2
10°	90.3	89.4	88.5	87.2	85.7	83.7	80.8	77.5	73.3	69.1	66.5
12.5°	110.4	110.2	109.7	107.8	104.9	103.1	100.0	95.4	90.1	84.3	82.1
15°	133.6	132.5	131.8	130.3	128.5	125.0	119.9	115.5	109.3	101.3	98.7
17.5°	155.0	154.6	153.2	152.8	149.9	146.2	140.4	133.8	126.3	119.0	115.0
20°	178.4	179.5	178.0	176.6	171.6	167.8	162.5	156.1	147.1	136.7	132.5
22.5°	204.5	205.6	203.1	203.1	198.9	192.8	185.3	177.7	166.5	155.7	150.4
25°	234.7	235.2	231.4	229.9	226.8	220.6	211.5	202.7	189.7	176.0	169.8
27.5°	263.4	264.3	262.1	260.1	255.0	249.1	239.1	228.8	214.0	197.6	190.8
30°	295.9	294.1	293.2	289.7	284.4	278.2	267.2	255.7	238.7	219.5	211.1
32.5°	324.6	323.3	323.9	321.0	313.3	306.5	296.1	282.2	262.3	242.2	232.7
35°	354.2	354.8	353.9	350.9	346.2	337.2	323.0	307.4	287.5	263.9	253.7
37.5°	384.4	382.9	381.8	379.1	374.5	364.3	350.4	332.8	309.8	284.8	273.6
40°	410.5	411.6	410.3	405.8	401.6	390.4	375.1	355.1	331.4	304.7	291.7
42.5°	435.2	434.8	433.7	431.2	425.5	413.6	398.6	378.0	351.3	321.7	308.0
45°	455.1	455.5	455.5	452.0	446.7	435.9	418.6	397.7	369.2	338.1	323.7
47.5°	474.1	474.7	474.3	472.7	467.0	454.2	436.7	415.1	384.9	352.8	336.7
50°	490.8	490.8	490.6	489.3	483.8	471.4	453.5	430.3	399.0	365.2	349.3
52.5°	504.8	504.5	504.8	503.2	497.5	486.2	467.7	442.9	411.6	375.6	360.1
55°	515.8	515.1	516.7	516.0	510.9	498.4	478.7	454.6	422.2	385.5	369.2
57.5°	524.6	524.4	526.4	525.7	520.7	508.1	488.6	464.1	431.0	393.7	375.8
60°	531.9	531.5	534.1	534.1	529.0	516.5	497.2	471.4	438.1	400.1	382.0
62.5°	537.0	537.2	539.6	540.5	536.1	523.3	503.2	477.8	443.8	405.2	386.8
65°	540.5	541.0	543.8	545.6	541.2	528.6	507.8	482.5	448.5	409.4	390.6
67.5°	542.7	543.0	546.9	548.7	545.2	531.9	511.8	485.8	451.5	412.0	393.5
70°	543.6	543.8	548.3	550.9	547.4	533.9	513.6	487.5	453.5	413.8	395.0
72.5°	543.0	543.4	548.0	551.6	548.0	534.8	514.3	488.4	454.0	415.8	395.5
75°	540.7	541.2	546.5	550.0	547.4	533.7	513.1	487.5	453.3	414.0	394.8
77.5°	537.0	537.7	543.2	547.6	544.5	531.5	510.9	485.1	450.9	411.8	392.4
80°	531.5	531.7	537.9	542.3	540.1	527.1	506.5	480.9	446.9	408.0	389.1
82.5°	524.4	525.3	531.3	536.1	534.1	520.7	500.8	475.6	441.8	403.4	384.2
85°	516.9	517.8	523.3	528.6	526.2	513.6	493.7	468.8	435.0	397.0	378.7
87.5°	507.8	508.5	513.8	519.3	517.1	504.5	485.3	460.8	427.9	391.0	372.3
90°	497.9	498.6	503.7	509.0	506.1	494.2	475.4	451.3	419.3	383.1	365.0
92.5°	487.3	487.5	493.3	496.1	494.6	484.0	465.5	442.3	410.3	374.9	357.9
95°	475.4	475.4	480.9	484.0	481.4	471.4	454.0	430.8	399.7	366.5	349.1
97.5°	462.4	462.8	467.0	470.1	469.2	458.8	442.3	420.2	390.4	357.5	340.9
100°	448.9	448.9	452.6	455.3	453.3	444.9	429.2	408.9	378.7	347.8	331.6
102.5°	434.8	434.5	437.6	439.6	438.3	430.6	416.0	395.9	367.6	337.6	322.4
105°	419.1	418.4	421.5	423.7	422.4	415.6	403.2	383.8	356.4	327.7	313.1
107.5°	402.3	403.4	405.2	406.5	405.4	399.4	387.7	370.5	344.7	317.3	303.2
110°	386.4	387.1	387.3	388.8	388.6	383.8	373.8	356.6	332.1	306.3	292.6

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Scaled Data Report

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	370.3	370.1	370.3	*371.4*	371.4	366.5	357.0	342.0	319.7	294.6	282.0
115°	352.8	352.0	352.2	*352.4*	353.3	349.5	341.4	327.2	305.4	283.1	270.7
117.5°	334.7	334.5	334.1	*333.4*	333.4	331.9	324.8	312.2	291.5	269.4	259.0
120°	317.5	316.6	315.5	*314.9*	315.3	313.5	307.8	295.2	276.9	257.0	246.6
122.5°	297.6	298.3	297.6	*296.8*	297.0	295.2	290.4	279.8	261.4	242.4	233.2
125°	280.6	280.4	279.5	*278.2*	278.2	277.5	272.3	263.0	246.6	228.5	219.9
127.5°	261.7	261.9	261.0	*260.3*	260.8	259.4	255.9	245.3	231.0	214.8	206.5
130°	243.8	243.5	243.3	*242.0*	243.1	240.7	237.6	228.8	215.1	201.4	193.6
132.5°	227.0	225.7	224.8	*224.6*	224.3	224.1	220.4	212.6	201.2	187.5	180.0
135°	210.2	209.1	208.0	*207.6*	208.0	206.9	203.6	197.2	186.6	173.3	167.6
137.5°	193.0	192.5	192.5	*191.4*	191.4	190.6	187.7	182.4	172.4	161.0	155.2
140°	177.5	176.6	176.2	*175.5*	176.2	175.3	172.2	167.1	158.8	148.8	143.3
142.5°	161.6	160.7	161.4	*160.7*	160.1	159.6	157.0	153.0	145.7	136.7	132.0
145°	146.8	146.8	146.4	*146.6*	146.2	145.7	143.1	139.3	133.1	124.8	121.4
147.5°	132.9	133.4	132.9	*133.4*	133.4	131.6	129.8	126.7	121.0	114.4	110.8
150°	119.9	120.6	120.1	*119.9*	120.1	119.2	116.8	115.0	110.0	104.2	100.7
152.5°	108.9	109.3	109.3	*108.9*	108.6	108.2	105.8	103.3	99.4	94.9	92.5
155°	98.5	98.5	98.7	*98.9*	98.3	96.9	96.0	94.1	90.5	86.6	84.1
157.5°	89.9	89.6	89.9	*89.6*	89.4	88.1	86.8	85.2	82.4	78.8	77.5
160°	81.7	81.7	81.9	*81.7*	80.8	80.2	79.0	77.7	75.3	72.9	71.1
162.5°	75.1	75.1	75.1	*74.9*	74.0	73.7	72.4	71.1	69.1	67.1	65.8
165°	69.3	69.3	69.1	*69.1*	68.7	68.0	66.9	65.8	64.0	62.5	61.6
167.5°	64.7	64.5	64.3	*64.0*	63.8	63.1	62.0	61.4	60.1	58.7	58.1
170°	60.7	60.7	60.5	*60.5*	60.1	59.4	58.7	57.9	57.0	55.6	55.2
172.5°	57.2	57.2	57.2	*57.2*	56.5	56.3	55.6	55.0	54.3	53.4	53.0
175°	54.5	54.5	54.5	*54.5*	54.1	53.7	53.4	52.8	52.3	51.7	51.4
177.5°	52.6	52.6	52.6	*52.6*	52.3	51.9	51.7	51.2	50.8	50.6	50.3
180°	50.8	50.8	50.8	*50.8*	50.8	50.8	50.8	50.8	50.8	50.8	50.8

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REPORT NUMBER: P1223913
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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	36.0	34.7	32.9	30.9	29.4	27.4	25.4	24.3	23.6	23.2
5°	40.2	37.3	34.7	31.8	29.6	27.6	25.4	23.6	22.7	22.5
7.5°	51.2	47.3	43.3	39.7	36.7	33.6	31.4	29.6	28.5	28.5
10°	64.5	59.0	54.3	49.7	45.5	41.7	38.6	36.9	35.5	35.1
12.5°	79.5	72.9	66.5	61.2	55.0	50.8	47.0	44.6	43.1	42.8
15°	95.2	88.3	80.2	72.9	66.0	59.4	55.0	51.4	50.1	50.1
17.5°	110.2	101.3	92.3	83.5	75.1	67.3	61.2	57.2	55.2	54.8
20°	126.3	115.7	104.0	93.6	83.2	74.2	66.9	61.8	59.2	59.0
22.5°	142.9	130.5	117.9	104.2	92.3	81.5	72.9	66.9	63.6	63.1
25°	161.8	146.8	131.8	116.8	102.5	89.6	79.5	72.2	68.4	68.0
27.5°	182.8	164.1	146.2	128.9	112.2	98.0	85.9	77.5	72.9	72.6
30°	202.0	181.3	161.0	141.1	122.8	105.8	92.3	82.6	77.5	76.8
32.5°	221.2	198.3	175.3	153.5	132.3	113.9	98.7	87.4	81.5	81.0
35°	241.1	215.1	190.1	164.9	142.9	122.1	104.7	92.3	85.9	85.0
37.5°	259.7	231.6	204.2	177.5	152.1	129.6	110.4	96.9	89.6	88.5
40°	276.7	246.4	217.0	188.3	161.0	136.7	115.9	100.9	92.7	91.9
42.5°	292.3	260.3	228.8	197.8	169.1	142.9	120.6	104.2	95.2	94.3
45°	307.1	273.4	239.6	206.7	176.2	148.6	125.0	107.3	97.6	96.3
47.5°	319.7	284.4	248.2	214.2	182.6	153.5	128.3	109.5	99.4	98.0
50°	331.0	293.7	256.4	221.5	188.1	157.9	131.4	111.3	100.2	98.9
52.5°	340.0	302.3	263.4	227.2	193.2	161.4	133.6	112.8	101.1	99.8
55°	348.9	309.3	269.6	232.3	197.0	164.7	135.4	113.7	101.6	100.0
57.5°	356.2	315.3	274.7	236.3	200.7	166.9	136.9	114.2	101.6	99.8
60°	361.5	319.9	278.7	239.6	203.1	168.9	138.0	114.4	101.3	99.6
62.5°	366.1	323.7	281.5	242.4	205.6	170.5	139.1	114.6	100.9	99.1
65°	369.6	326.8	284.0	244.2	207.1	171.8	139.3	114.4	100.2	98.5
67.5°	372.5	328.8	285.5	245.8	208.2	172.4	139.8	114.2	99.8	97.8
70°	373.6	329.7	286.4	246.4	208.9	172.9	139.8	113.7	98.9	96.9
72.5°	*373.4*	*329.7*	*286.6*	*246.6*	*209.1*	*173.1*	*139.5*	*113.1*	*98.3*	*96.3*
75°	372.7	329.0	286.2	246.4	208.9	172.9	139.3	112.6	97.6	95.8
77.5°	370.9	327.2	284.6	245.5	208.4	172.2	138.7	112.2	97.2	94.9
80°	367.9	324.6	282.4	243.5	206.9	171.6	138.0	111.3	96.3	94.5
82.5°	363.4	321.3	279.8	241.8	205.6	170.2	137.1	110.8	95.8	94.1
85°	358.4	317.1	276.2	239.1	203.6	168.9	136.0	110.0	95.4	93.6
87.5°	352.2	311.6	272.7	236.0	201.2	167.1	134.9	109.3	95.2	93.4
90°	345.8	306.5	268.3	233.2	199.2	165.4	133.8	108.9	94.9	93.4
92.5°	338.7	301.0	264.1	229.4	196.5	163.6	132.7	108.4	94.9	93.4
95°	331.6	295.2	259.9	226.1	193.9	161.8	131.6	108.2	95.4	93.8
97.5°	323.3	288.6	254.8	222.6	190.8	159.9	130.7	108.0	95.6	94.3
100°	315.3	282.0	249.5	218.6	187.9	157.7	129.4	107.8	96.0	94.5
102.5°	306.7	275.6	244.2	214.4	184.8	155.2	128.3	107.5	96.5	95.2
105°	298.1	267.8	238.5	209.5	181.1	152.8	127.0	107.3	96.7	95.4
107.5°	288.6	260.5	232.1	204.9	177.3	150.1	125.2	106.9	96.9	95.6
110°	278.9	251.9	225.4	199.6	172.9	146.8	123.4	105.8	96.7	95.6

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

Scaled Data Report

REPORT NUMBER: P1223913
CATALOG NUMBER: FFX-CLB-20-740-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	269.6	243.8	218.2	193.6	168.3	143.5	121.0	104.7	96.0	95.2
115°	258.1	234.5	210.4	187.2	163.0	139.3	118.4	103.1	95.2	94.1
117.5°	247.5	224.8	202.3	180.4	157.4	135.1	115.3	101.1	93.6	92.7
120°	235.6	214.4	193.4	172.7	151.3	130.3	111.5	98.7	91.6	91.0
122.5°	223.9	204.2	184.4	164.7	144.6	124.8	107.8	95.6	89.4	88.8
125°	211.5	193.4	174.9	156.3	137.3	119.0	103.3	92.1	86.6	85.9
127.5°	198.9	182.2	164.7	147.5	130.3	113.3	98.7	88.5	83.2	83.0
130°	185.7	170.7	154.8	138.9	123.0	107.3	93.8	84.8	79.9	79.5
132.5°	173.8	159.9	145.1	130.1	115.0	101.3	89.2	80.8	76.6	76.2
135°	162.1	148.2	135.4	122.1	108.2	95.4	84.6	77.1	73.3	72.9
137.5°	150.1	138.0	126.1	113.7	101.1	89.6	80.2	73.5	70.2	69.8
140°	138.2	128.1	117.2	105.5	94.7	84.3	75.7	70.2	67.1	66.7
142.5°	127.4	117.7	108.0	97.8	88.1	79.3	71.8	66.5	63.8	63.6
145°	116.8	108.4	99.6	90.5	82.1	74.9	68.0	63.6	61.4	61.2
147.5°	107.3	99.8	91.9	84.1	76.8	70.0	64.5	60.7	58.5	58.3
150°	97.8	91.2	84.6	77.9	71.8	66.0	61.2	58.1	56.5	56.1
152.5°	89.4	84.1	78.2	72.6	67.1	62.3	58.5	55.6	54.3	54.1
155°	81.9	77.5	72.6	67.8	63.4	59.4	56.1	53.9	52.8	52.8
157.5°	75.5	71.8	67.8	63.8	60.3	57.0	54.3	52.6	51.7	51.4
160°	69.8	66.5	63.4	60.5	57.2	54.8	52.8	51.2	50.6	50.3
162.5°	64.5	62.3	59.8	57.4	55.0	53.0	51.4	50.3	49.9	49.9
165°	60.7	58.7	56.7	55.0	53.2	51.9	50.6	49.9	49.5	49.2
167.5°	57.4	55.9	54.5	53.2	51.9	50.8	49.9	49.5	49.0	49.0
170°	54.8	53.7	52.8	51.9	51.0	50.1	49.7	49.2	49.0	49.0
172.5°	52.6	51.9	51.2	50.8	50.1	49.7	49.2	49.0	49.0	49.0
175°	51.2	50.8	50.3	50.1	49.9	49.7	49.5	49.2	49.2	49.2
177.5°	50.3	50.1	50.1	49.9	49.9	49.9	49.9	49.9	49.9	49.9
180°	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8

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: SP1-2501-332-1

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

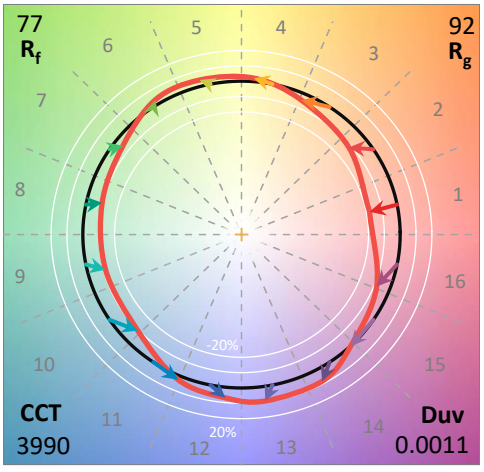
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-1
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-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3990	CRI (Ra):	73.9		
CIE u':	0.2247	R1:	69.6	R9:	-36.4
CIE v':	0.5031	R2:	83.0	R10:	60.9
Duv:	0.0011	R3:	93.1	R11:	66.8
CIE x:	0.3816	R4:	70.6	R12:	52.5
CIE y:	0.3798	R5:	70.6	R13:	72.5
CIE z:	0.2386	R6:	76.4	R14:	96.4
Peak Wavelength (nm):	450	R7:	79.8	R15:	61.3
Dominant Wavelength (nm):	578	R8:	48.1		
Purity:	28.50862				

Rf:	77.5
Rg:	91.9



Test Conditions

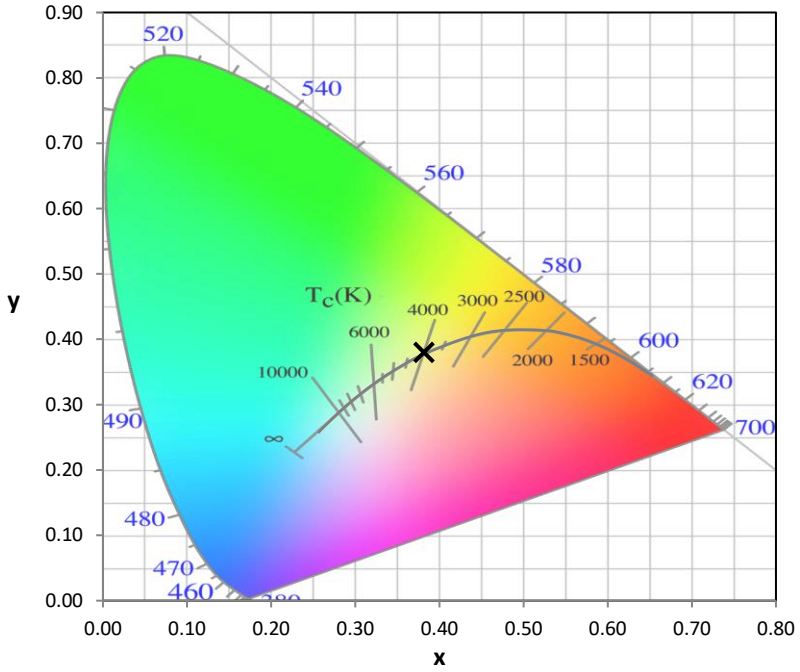
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

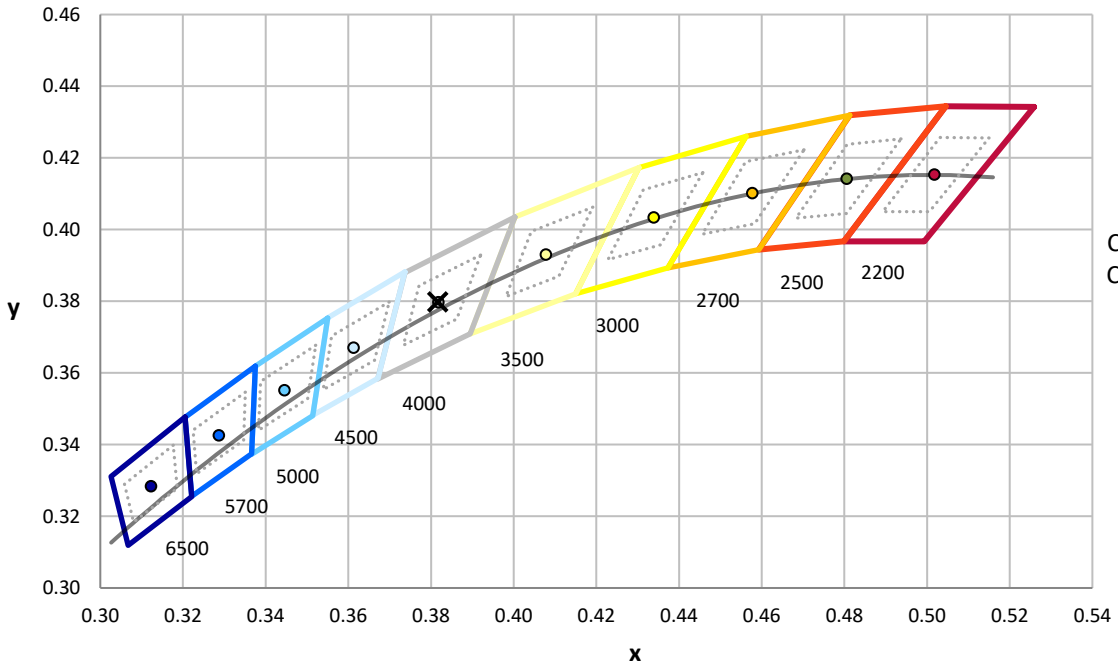
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-1

CIE 1931 Chromaticity Diagram



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

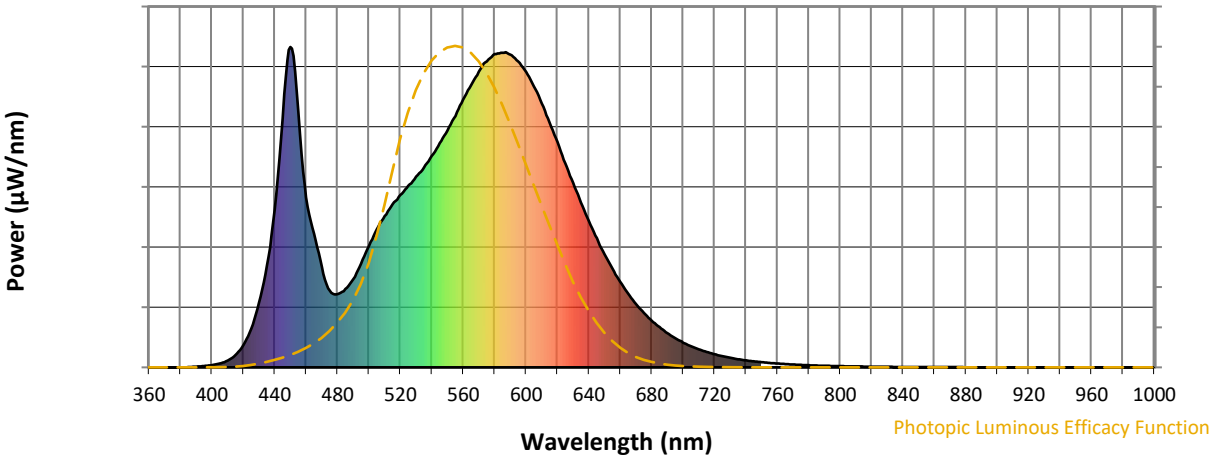


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

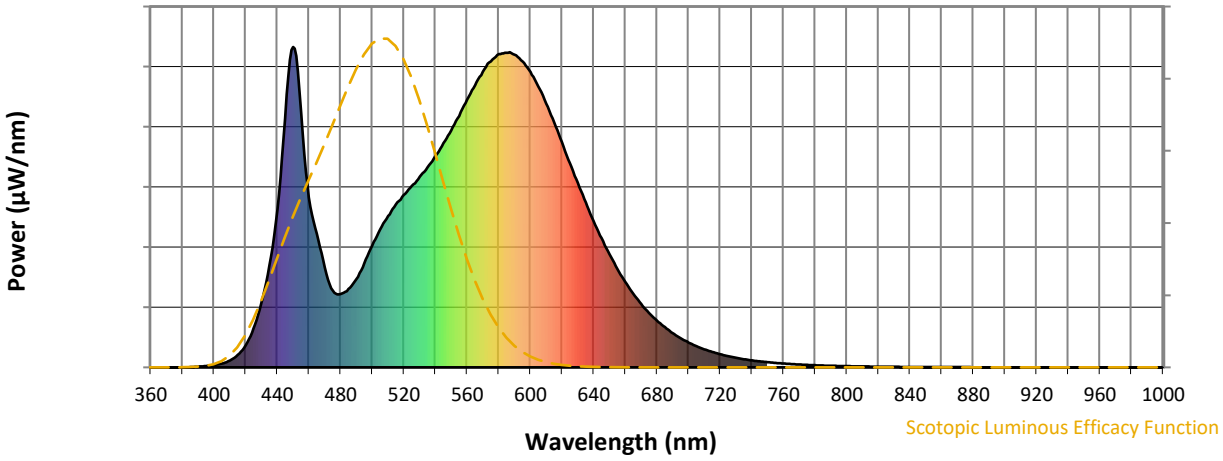


Photopic Lumens: NR

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Scotopic Flux vs. Wavelength

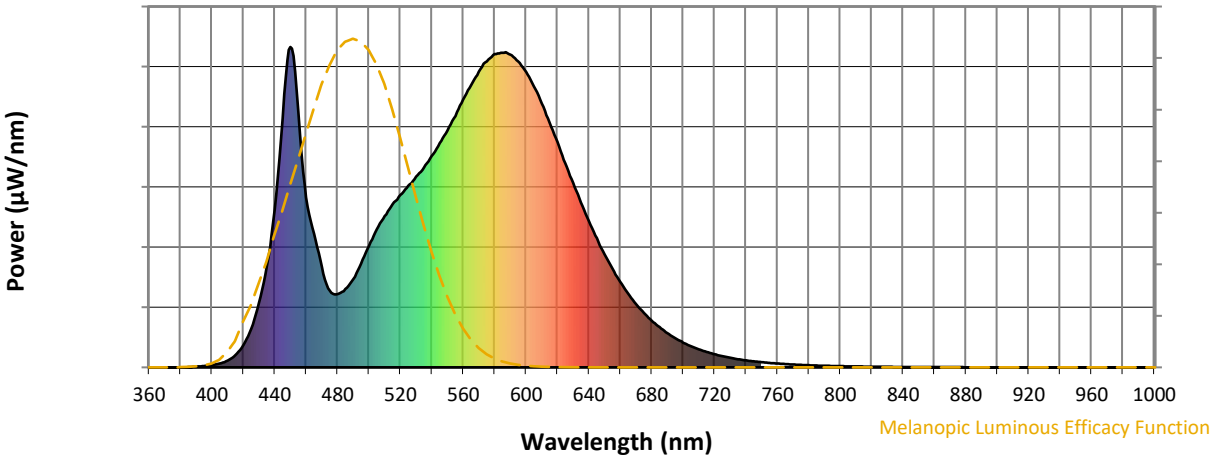


Scotopic Lumens: NR **S/P: 1.59**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.21**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

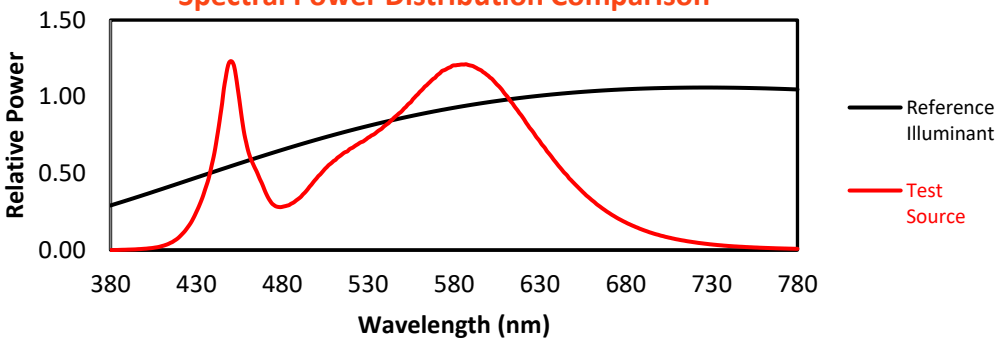
REPORT NUMBER: SP1-2501-332-1

TM-30-18

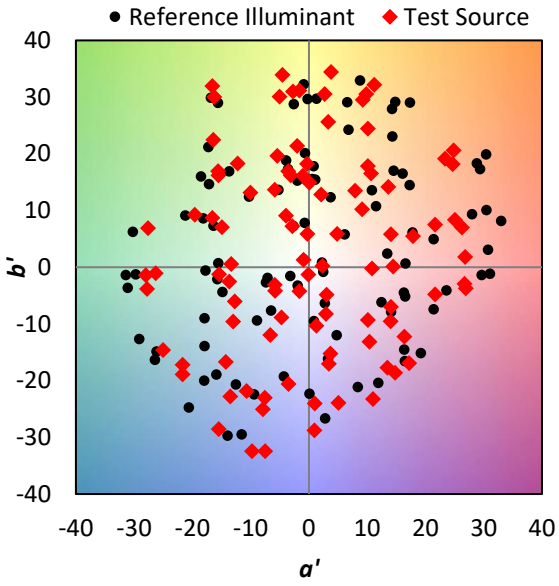
Summary

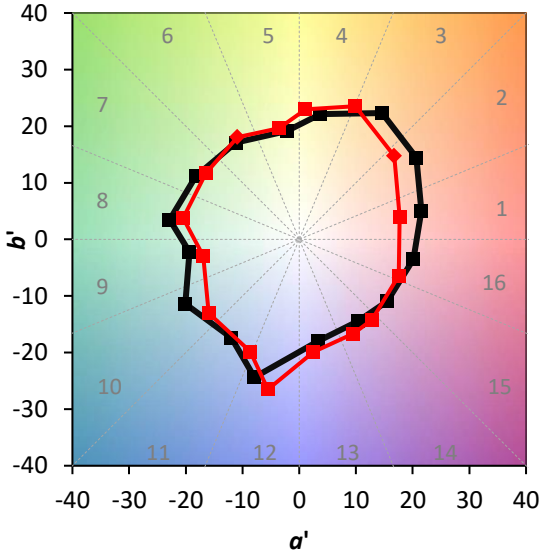
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

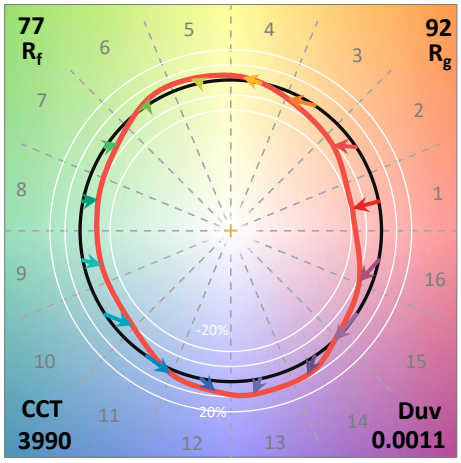
Spectral Power Distribution Comparison

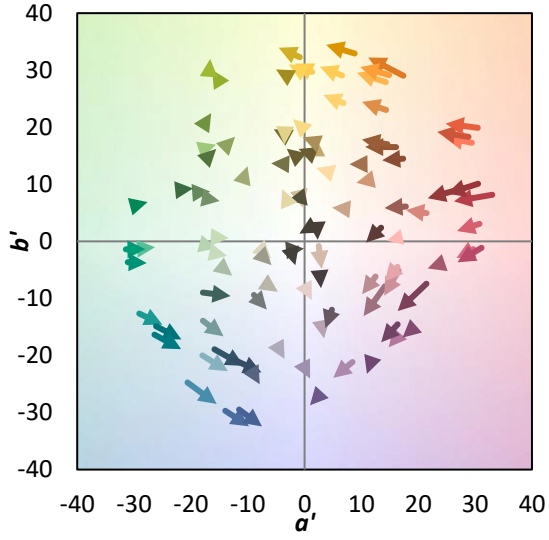


Color Vector Graphics







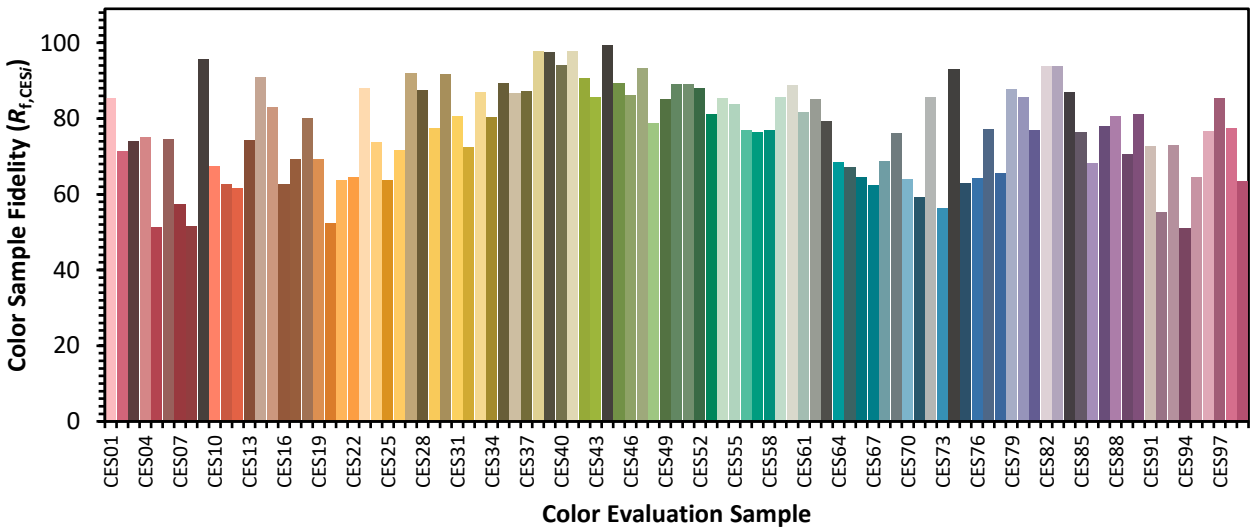


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Individual Sample Fidelity Index ($R_{f,i}$)

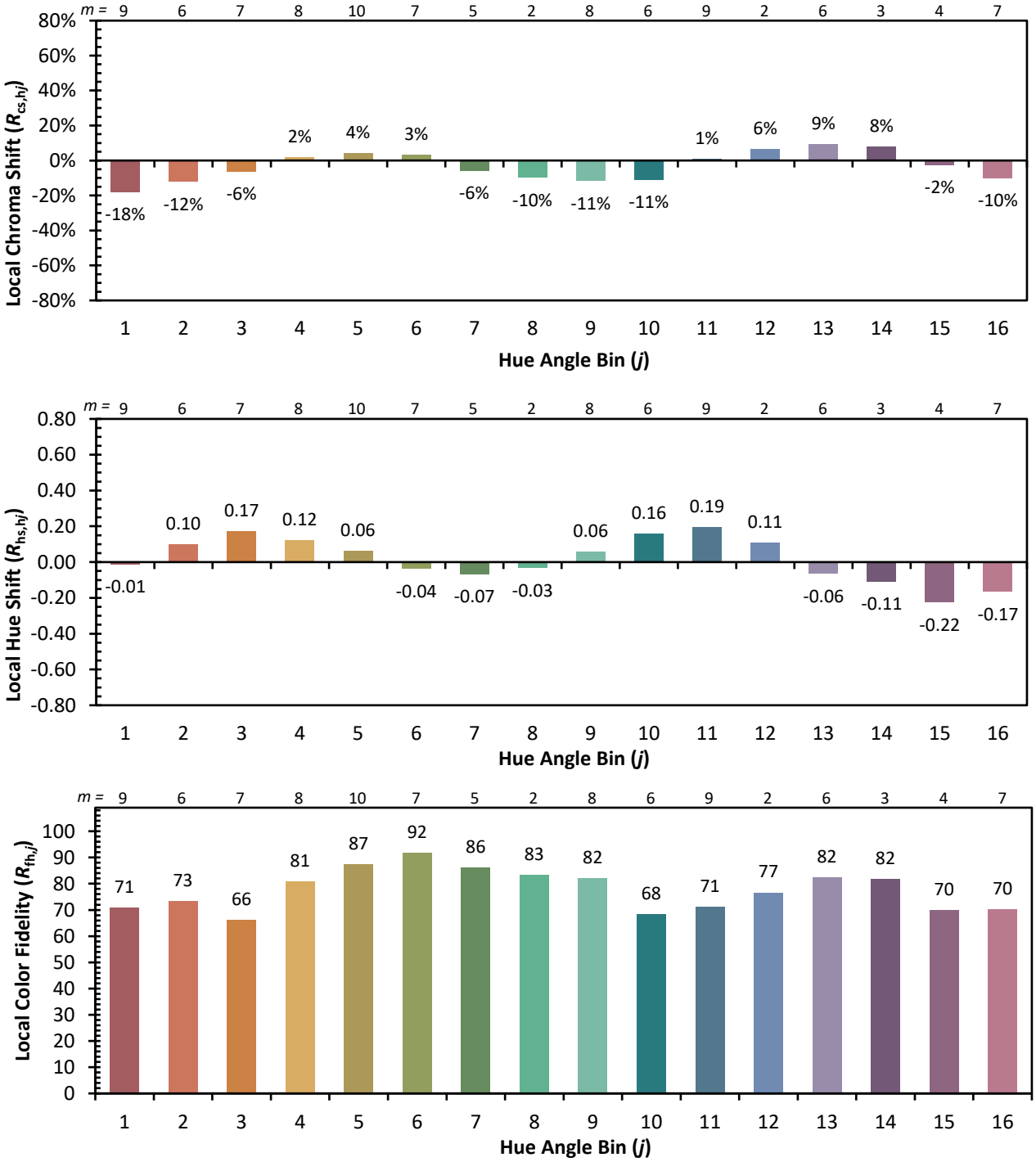
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 89	CES60 = 89	CES85 = 76
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 68
CES12 = 63	CES37 = 87	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 81
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 67	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 65	CES91 = 73
CES17 = 49	CES42 = 91	CES67 = 62	CES92 = 55
CES18 = 56	CES43 = 86	CES68 = 69	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 65	CES45 = 89	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 77
CES22 = 78	CES47 = 93	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 79	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 93	CES99 = 63
CES25 = 72	CES50 = 89	CES75 = 63	



REPORT NUMBER: SP1-2501-332-1

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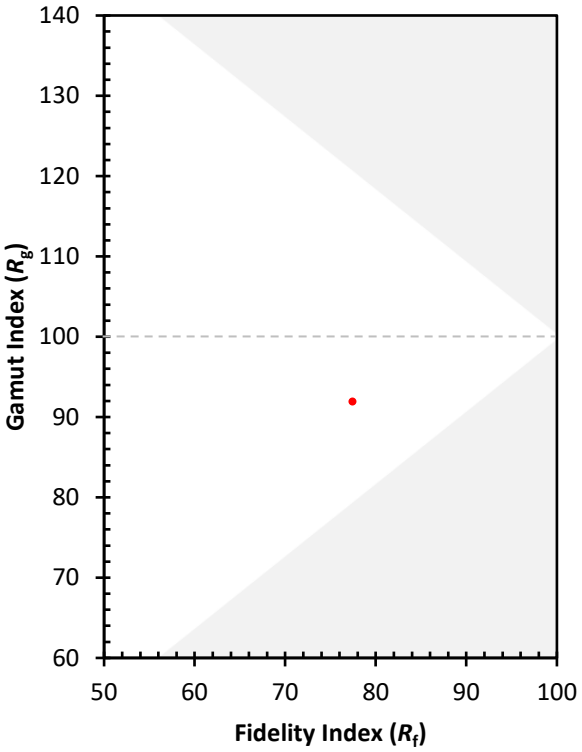
Color Rendition by Hue-Angle Bin

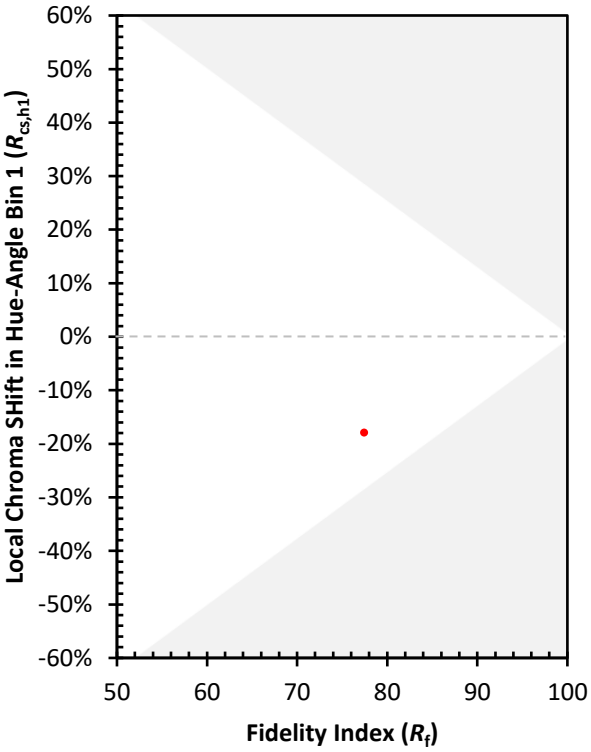


REPORT NUMBER: SP1-2501-332-1

TM-30-18

Measure Comparisons





(END OF REPORT)