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: P1223893

Luminaire Tested: **FFX-CLB-40-727-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:	P1223893
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-727-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5715 lumens
Efficiency:	N/A
Efficacy:	145.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G3

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

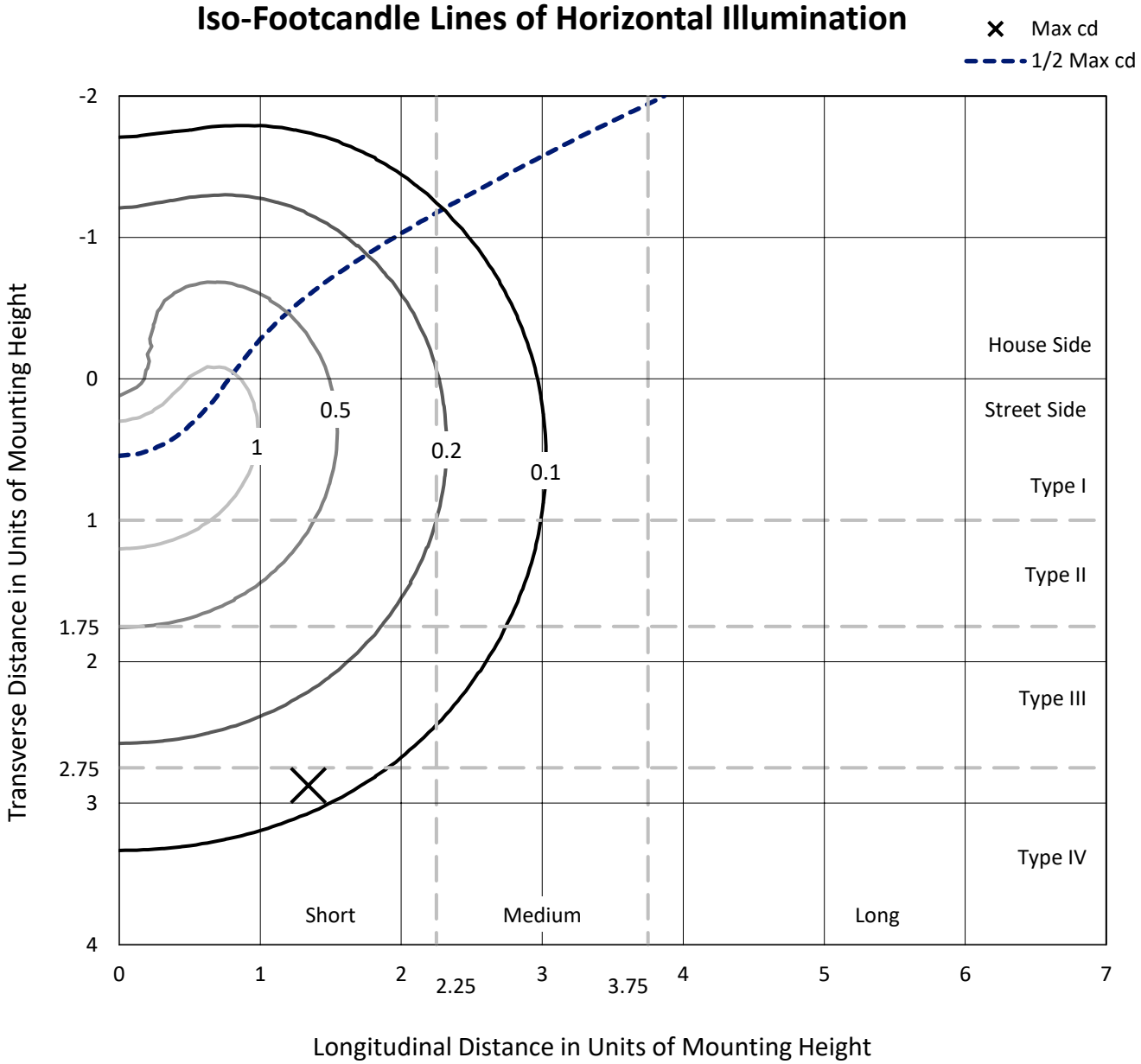


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Iso-Footcandle Lines of Horizontal Illumination



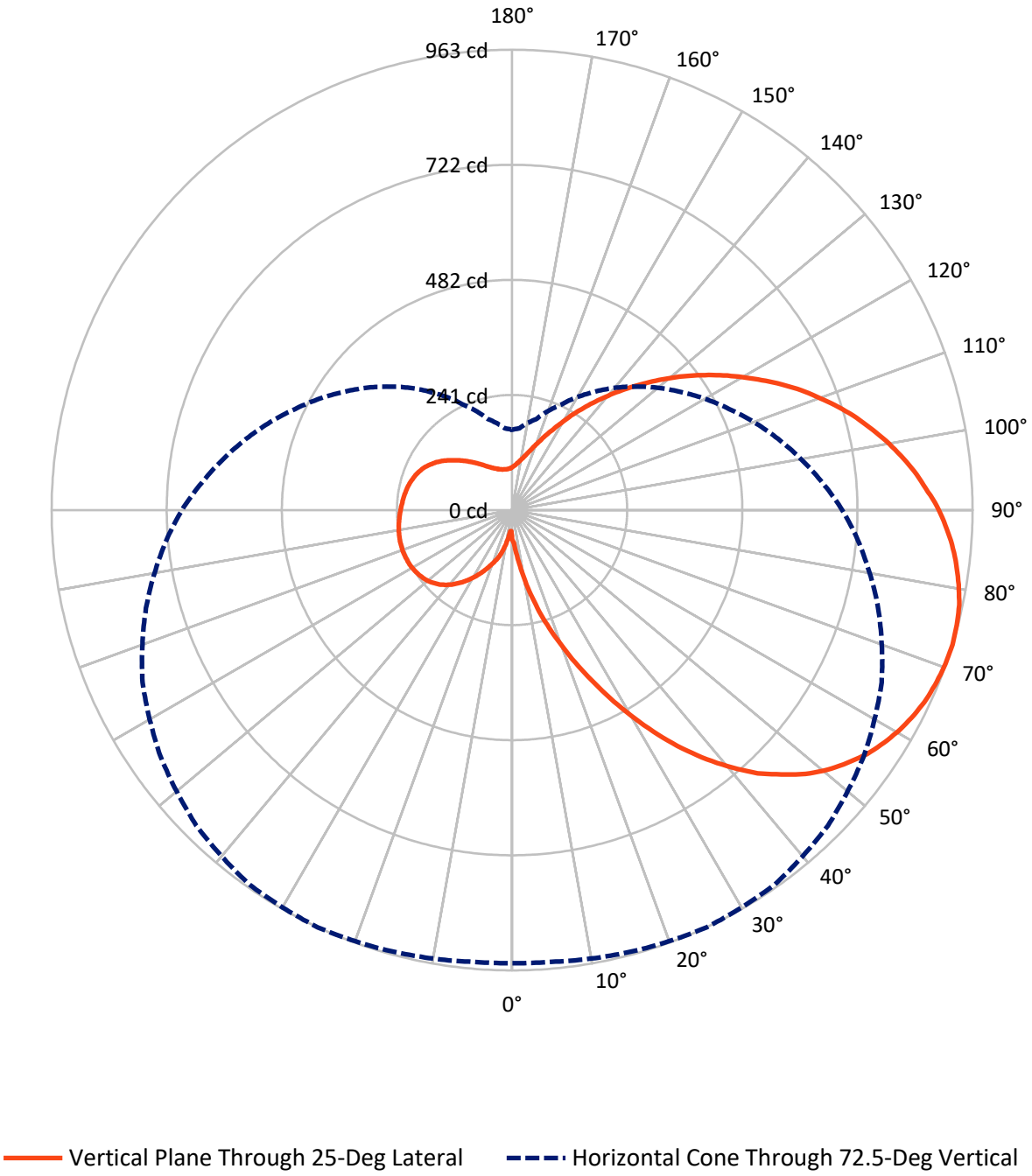
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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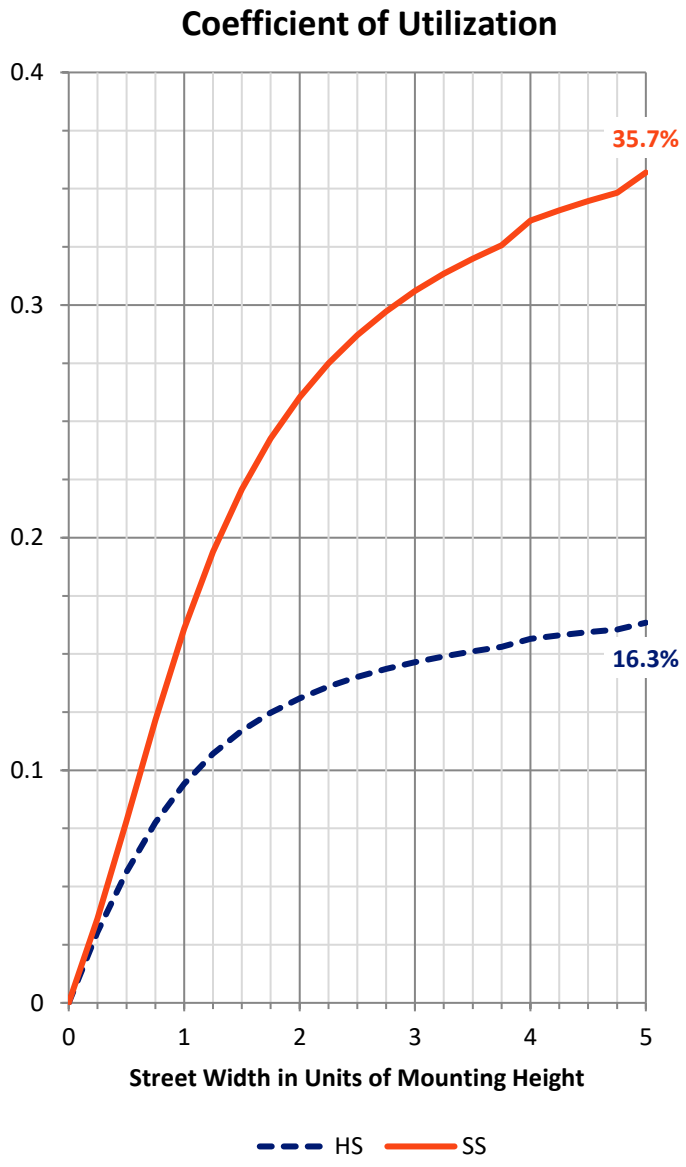
REPORT NUMBER: P1223893
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.7	788.0	1817.6
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	2328.8	1568.5	3897.3
	% Fixture	40.7	27.4	68.2
Total	Lumens	3358.5	2356.5	5715.0
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.1
10°-20°	48.5	0.8
20°-30°	132.2	2.3
30°-40°	261.9	4.6
40°-50°	408.9	7.2
50°-60°	535.9	9.4
60°-70°	625.4	10.9
70°-80°	671.0	11.7
80°-90°	666.6	11.7
90°-100°	618.4	10.8
100°-110°	538.5	9.4
110°-120°	435.7	7.6
120°-130°	320.8	5.6
130°-140°	212.1	3.7
140°-150°	125.5	2.2
150°-160°	66.0	1.2
160°-170°	30.6	0.5
170°-180°	8.8	0.2
0°-90°	3358.5	58.8
0°-180°	5715.0	100.0



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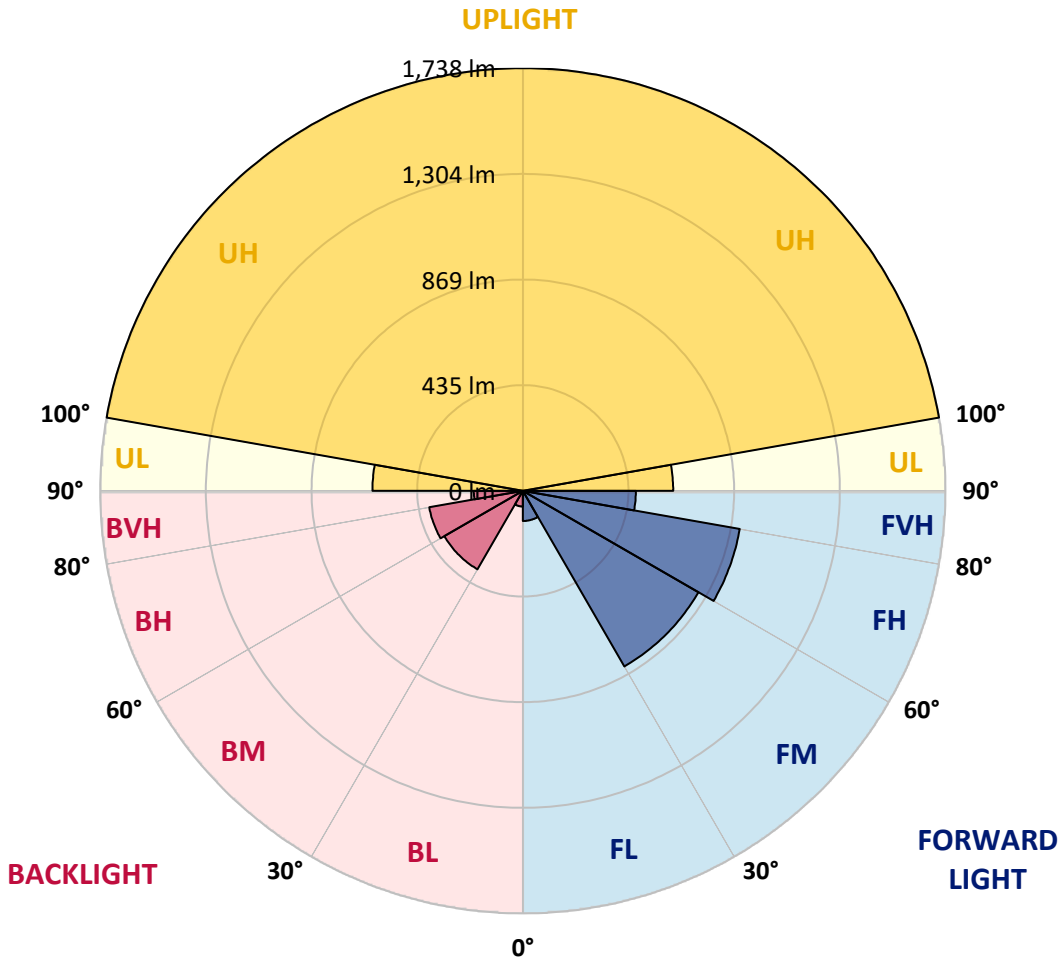
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	124.1	2.2			
FM	(30°-60°)	834.1	14.6			
FH	(60°-80°)	905.9	15.9			G1/1800
FVH	(80°-90°)	464.7	8.1			G3/500
BL	(0°-30°)	64.7	1.1	B0/110		
BM	(30°-60°)	372.6	6.5	B1/1000		
BH	(60°-80°)	390.5	6.8	B1/500		G1/500
BVH	(80°-90°)	201.9	3.5			G2/225
UL	(90°-100°)	618.4	10.8		U4/1000	
UH	(100°-180°)	1738.0	30.4		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
2.5°	66.7	66.7	67.9	68.2	68.6	68.6	69.0	68.6	67.1	65.2	64.0
5°	91.0	90.2	89.8	90.2	90.2	88.7	86.4	82.1	79.0	74.0	72.1
7.5°	121.8	121.1	119.9	118.8	118.8	114.9	111.1	107.6	102.2	95.2	92.9
10°	157.7	156.2	154.6	152.3	149.6	146.1	141.1	135.3	128.0	120.7	116.1
12.5°	192.8	192.4	191.6	188.2	183.2	180.1	174.7	166.6	157.3	147.3	143.4
15°	233.3	231.4	230.2	227.5	224.4	218.2	209.4	201.7	190.9	177.0	172.4
17.5°	270.7	269.9	267.6	266.8	261.8	255.3	245.2	233.7	220.6	207.8	200.9
20°	311.6	313.5	310.8	308.5	299.6	293.1	283.8	272.6	256.8	238.7	231.4
22.5°	357.1	359.0	354.7	354.7	347.4	336.6	323.5	310.4	290.7	271.8	262.6
25°	409.9	410.7	404.1	401.4	396.0	385.2	369.4	354.0	331.2	307.3	296.5
27.5°	460.0	461.6	457.7	454.2	445.4	434.9	417.6	399.5	373.6	345.1	333.2
30°	516.7	513.6	512.1	505.9	496.6	485.8	466.6	446.5	416.8	383.3	368.6
32.5°	566.8	564.5	565.7	560.7	547.2	535.2	517.1	492.8	458.1	423.0	406.4
35°	618.5	619.6	618.1	612.7	604.6	588.8	564.1	536.7	502.0	460.8	443.0
37.5°	671.3	668.6	666.7	662.1	654.0	636.2	611.9	581.1	541.0	497.4	477.7
40°	716.8	718.7	716.4	708.7	701.4	681.7	655.1	620.0	578.8	532.1	509.4
42.5°	760.0	759.2	757.3	753.1	743.0	722.2	696.0	660.1	613.5	561.8	537.9
45°	794.7	795.5	795.5	789.3	780.1	761.2	731.1	694.5	644.7	590.3	565.3
47.5°	827.9	829.0	828.3	825.6	815.5	793.2	762.7	724.9	672.1	616.2	588.0
50°	857.2	857.2	856.8	854.5	844.8	823.2	792.0	751.5	696.8	637.8	610.0
52.5°	881.5	881.1	881.5	878.8	868.7	849.1	816.7	773.5	718.7	655.9	628.9
55°	900.7	899.6	902.3	901.1	892.3	870.3	836.0	793.9	737.3	673.2	644.7
57.5°	916.2	915.8	919.3	918.1	909.2	887.2	853.3	810.5	752.7	687.5	656.3
60°	928.9	928.1	932.7	932.7	923.9	901.9	868.4	823.2	765.0	698.7	667.1
62.5°	937.8	938.1	942.4	943.9	936.2	913.9	878.8	834.4	775.0	707.6	675.6
65°	943.9	944.7	949.7	952.8	945.1	923.1	886.9	842.5	783.1	714.9	682.1
67.5°	947.8	948.2	955.1	958.2	952.0	928.9	893.8	848.3	788.5	719.5	687.1
70°	949.3	949.7	957.4	962.1	955.9	932.4	896.9	851.4	792.0	722.6	689.8
72.5°	948.2	948.9	957.0	963.2	957.0	933.9	898.0	852.9	792.8	726.1	690.6
75°	944.3	945.1	954.3	960.5	955.9	932.0	896.1	851.4	791.6	723.0	689.4
77.5°	937.8	938.9	948.6	956.3	950.9	928.1	892.3	847.1	787.4	719.1	685.2
80°	928.1	928.5	939.3	947.0	943.2	920.4	884.5	839.8	780.4	712.6	679.4
82.5°	915.8	917.3	927.7	936.2	932.7	909.2	874.5	830.6	771.6	704.5	670.9
85°	902.7	904.2	913.9	923.1	918.9	896.9	862.2	818.6	759.6	693.3	661.3
87.5°	886.9	888.0	897.3	906.9	903.1	881.1	847.5	804.7	747.3	682.9	650.1
90°	869.5	870.7	879.5	888.8	883.8	863.0	830.2	788.2	732.2	669.0	637.4
92.5°	851.0	851.4	861.4	866.4	863.7	845.2	812.8	772.3	716.4	654.7	625.0
95°	830.2	830.2	839.8	845.2	840.6	823.2	792.8	752.3	697.9	640.1	609.6
97.5°	807.4	808.2	815.5	820.9	819.4	801.3	772.3	733.8	681.7	624.3	595.4
100°	783.9	783.9	790.5	795.1	791.6	777.0	749.6	714.1	661.3	607.3	579.2
102.5°	759.2	758.8	764.2	767.7	765.4	751.9	726.5	691.4	642.0	589.6	563.0
105°	731.9	730.7	736.1	740.0	737.6	725.7	704.1	670.2	622.3	572.2	546.8
107.5°	702.6	704.5	707.6	709.9	707.9	697.5	677.1	647.0	601.9	554.1	529.4
110°	674.8	675.9	676.3	679.0	678.6	670.2	652.8	622.7	579.9	534.8	510.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	646.6	646.3	646.6	*648.6*	648.6	640.1	623.5	597.3	558.3	514.4	492.4
115°	616.2	614.6	615.0	*615.4*	616.9	610.4	596.1	571.4	533.3	494.3	472.7
117.5°	584.6	584.2	583.4	*582.2*	582.2	579.5	567.2	545.2	509.0	470.4	452.3
120°	554.5	552.9	551.0	*549.9*	550.6	547.5	537.5	515.5	483.5	448.8	430.7
122.5°	519.8	520.9	519.8	*518.2*	518.6	515.5	507.1	488.5	456.5	423.4	407.2
125°	490.1	489.7	488.2	*485.8*	485.8	484.7	475.4	459.2	430.7	399.1	384.1
127.5°	456.9	457.3	455.8	*454.6*	455.4	453.1	446.9	428.4	403.3	375.2	360.5
130°	425.7	425.3	424.9	*422.6*	424.5	420.3	414.9	399.5	375.6	351.7	338.2
132.5°	396.4	394.1	392.5	*392.1*	391.8	391.4	384.8	371.3	351.3	327.4	314.3
135°	367.1	365.2	363.2	*362.5*	363.2	361.3	355.5	344.3	325.8	302.7	292.7
137.5°	337.0	336.2	336.2	*334.3*	334.3	332.8	327.8	318.5	301.1	281.1	271.1
140°	310.0	308.5	307.7	*306.5*	307.7	306.2	300.8	291.9	277.2	259.9	250.2
142.5°	282.3	280.7	281.9	*280.7*	279.6	278.8	274.2	267.2	254.5	238.7	230.6
145°	256.4	256.4	255.6	*256.0*	255.3	254.5	249.9	243.3	232.5	217.9	212.1
147.5°	232.1	232.9	232.1	*232.9*	232.9	229.8	226.7	221.3	211.3	199.7	193.6
150°	209.4	210.5	209.8	*209.4*	209.8	208.2	204.0	200.9	192.0	182.0	175.8
152.5°	190.1	190.9	190.9	*190.1*	189.7	188.9	184.7	180.5	173.5	165.8	161.6
155°	172.0	172.0	172.4	*172.7*	171.6	169.3	167.7	164.3	158.1	151.2	146.9
157.5°	156.9	156.6	156.9	*156.6*	156.2	153.9	151.5	148.8	143.8	137.7	135.3
160°	142.7	142.7	143.1	*142.7*	141.1	140.0	138.0	135.7	131.5	127.2	124.2
162.5°	131.1	131.1	131.1	*130.7*	129.2	128.8	126.5	124.2	120.7	117.2	114.9
165°	121.1	121.1	120.7	*120.7*	119.9	118.8	116.8	114.9	111.8	109.1	107.6
167.5°	113.0	112.6	112.2	*111.8*	111.4	110.3	108.4	107.2	104.9	102.6	101.4
170°	106.0	106.0	105.7	*105.7*	104.9	103.7	102.6	101.0	99.5	97.2	96.4
172.5°	99.9	99.9	99.9	*99.9*	98.7	98.3	97.2	96.0	94.9	93.3	92.5
175°	95.2	95.2	95.2	*95.2*	94.5	93.7	93.3	92.2	91.4	90.2	89.8
177.5°	91.8	91.8	91.8	*91.8*	91.4	90.6	90.2	89.5	88.7	88.3	87.9
180°	88.7	88.7	88.7	*88.7*	88.7	88.7	88.7	88.7	88.7	88.7	88.7

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
2.5°	62.9	60.5	57.5	54.0	51.3	47.8	44.3	42.4	41.3	40.5
5°	70.2	65.2	60.5	55.5	51.7	48.2	44.3	41.3	39.7	39.3
7.5°	89.5	82.5	75.6	69.4	64.0	58.6	54.8	51.7	49.7	49.7
10°	112.6	103.0	94.9	86.8	79.4	72.9	67.5	64.4	62.1	61.3
12.5°	138.8	127.2	116.1	106.8	96.0	88.7	82.1	77.9	75.2	74.8
15°	166.2	154.2	140.0	127.2	115.3	103.7	96.0	89.8	87.5	87.5
17.5°	192.4	177.0	161.2	145.8	131.1	117.6	106.8	99.9	96.4	95.6
20°	220.6	202.1	181.6	163.5	145.4	129.6	116.8	108.0	103.3	103.0
22.5°	249.5	227.9	205.9	182.0	161.2	142.3	127.2	116.8	111.1	110.3
25°	282.6	256.4	230.2	204.0	178.9	156.6	138.8	126.1	119.5	118.8
27.5°	319.3	286.5	255.3	225.2	195.9	171.2	150.0	135.3	127.2	126.9
30°	352.8	316.6	281.1	246.4	214.4	184.7	161.2	144.2	135.3	134.2
32.5°	386.4	346.3	306.2	268.0	231.0	199.0	172.4	152.7	142.3	141.5
35°	421.1	375.6	332.0	288.0	249.5	213.2	182.8	161.2	150.0	148.5
37.5°	453.5	404.5	356.7	310.0	265.7	226.3	192.8	169.3	156.6	154.6
40°	483.1	430.3	379.0	328.9	281.1	238.7	202.4	176.2	161.9	160.4
42.5°	510.5	454.6	399.5	345.5	295.4	249.5	210.5	182.0	166.2	164.6
45°	536.4	477.4	418.4	360.9	307.7	259.5	218.2	187.4	170.4	168.1
47.5°	558.3	496.6	433.4	374.0	318.9	268.0	224.0	191.3	173.5	171.2
50°	578.0	512.8	447.7	386.7	328.5	275.7	229.4	194.3	175.1	172.7
52.5°	593.8	527.9	460.0	396.8	337.4	281.9	233.3	197.0	176.6	174.3
55°	609.2	540.2	470.8	405.6	343.9	287.7	236.4	198.6	177.4	174.7
57.5°	622.0	550.6	479.7	412.6	350.5	291.5	239.1	199.4	177.4	174.3
60°	631.2	558.7	486.6	418.4	354.7	295.0	241.0	199.7	177.0	173.9
62.5°	639.3	565.3	491.6	423.4	359.0	297.7	242.9	200.1	176.2	173.1
65°	645.5	570.7	495.9	426.5	361.7	300.0	243.3	199.7	175.1	172.0
67.5°	650.5	574.1	498.6	429.2	363.6	301.1	244.1	199.4	174.3	170.8
70°	652.4	575.7	500.1	430.3	364.8	301.9	244.1	198.6	172.7	169.3
72.5°	*652.0*	*575.7*	*500.5*	*430.7*	*365.2*	*302.3*	*243.7*	*197.4*	*171.6*	*168.1*
75°	650.9	574.5	499.7	430.3	364.8	301.9	243.3	196.7	170.4	167.3
77.5°	647.8	571.4	497.0	428.8	364.0	300.8	242.2	195.9	169.7	165.8
80°	642.4	566.8	493.2	425.3	361.3	299.6	241.0	194.3	168.1	165.0
82.5°	634.7	561.0	488.5	422.2	359.0	297.3	239.5	193.6	167.3	164.3
85°	625.8	553.7	482.4	417.6	355.5	295.0	237.5	192.0	166.6	163.5
87.5°	615.0	544.1	476.2	412.2	351.3	291.9	235.6	190.9	166.2	163.1
90°	603.8	535.2	468.5	407.2	347.8	288.8	233.7	190.1	165.8	163.1
92.5°	591.5	525.6	461.2	400.6	343.2	285.7	231.7	189.3	165.8	163.1
95°	579.2	515.5	453.8	394.8	338.6	282.6	229.8	188.9	166.6	163.9
97.5°	564.5	504.0	445.0	388.7	333.2	279.2	228.3	188.6	167.0	164.6
100°	550.6	492.4	435.7	381.7	328.1	275.3	226.0	188.2	167.7	165.0
102.5°	535.6	481.2	426.5	374.4	322.7	271.1	224.0	187.8	168.5	166.2
105°	520.6	467.7	416.4	365.9	316.2	266.8	221.7	187.4	168.9	166.6
107.5°	504.0	455.0	405.3	357.8	309.6	262.2	218.6	186.6	169.3	167.0
110°	487.0	440.0	393.7	348.6	301.9	256.4	215.5	184.7	168.9	167.0

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

Scaled Data Report

REPORT NUMBER: P1223893
CATALOG NUMBER: FFX-CLB-40-727-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	470.8	425.7	381.0	338.2	293.8	250.6	211.3	182.8	167.7	166.2
115°	450.8	409.5	367.5	327.0	284.6	243.3	206.7	180.1	166.2	164.3
117.5°	432.2	392.5	353.2	315.0	274.9	236.0	201.3	176.6	163.5	161.9
120°	411.4	374.4	337.8	301.5	264.1	227.5	194.7	172.4	160.0	158.9
122.5°	391.0	356.7	322.0	287.7	252.6	217.9	188.2	167.0	156.2	155.0
125°	369.4	337.8	305.4	273.0	239.8	207.8	180.5	160.8	151.2	150.0
127.5°	347.4	318.1	287.7	257.6	227.5	197.8	172.4	154.6	145.4	145.0
130°	324.3	298.1	270.3	242.5	214.8	187.4	163.9	148.1	139.6	138.8
132.5°	303.5	279.2	253.3	227.1	200.9	177.0	155.8	141.1	133.8	133.0
135°	283.0	258.7	236.4	213.2	188.9	166.6	147.7	134.6	128.0	127.2
137.5°	262.2	241.0	220.2	198.6	176.6	156.6	140.0	128.4	122.6	121.8
140°	241.4	223.6	204.7	184.3	165.4	147.3	132.3	122.6	117.2	116.4
142.5°	222.5	205.5	188.6	170.8	153.9	138.4	125.3	116.1	111.4	111.1
145°	204.0	189.3	173.9	158.1	143.4	130.7	118.8	111.1	107.2	106.8
147.5°	187.4	174.3	160.4	146.9	134.2	122.2	112.6	106.0	102.2	101.8
150°	170.8	159.2	147.7	136.1	125.3	115.3	106.8	101.4	98.7	97.9
152.5°	156.2	146.9	136.5	126.9	117.2	108.7	102.2	97.2	94.9	94.5
155°	143.1	135.3	126.9	118.4	110.7	103.7	97.9	94.1	92.2	92.2
157.5°	131.9	125.3	118.4	111.4	105.3	99.5	94.9	91.8	90.2	89.8
160°	121.8	116.1	110.7	105.7	99.9	95.6	92.2	89.5	88.3	87.9
162.5°	112.6	108.7	104.5	100.3	96.0	92.5	89.8	87.9	87.1	87.1
165°	106.0	102.6	99.1	96.0	92.9	90.6	88.3	87.1	86.4	86.0
167.5°	100.3	97.6	95.2	92.9	90.6	88.7	87.1	86.4	85.6	85.6
170°	95.6	93.7	92.2	90.6	89.1	87.5	86.8	86.0	85.6	85.6
172.5°	91.8	90.6	89.5	88.7	87.5	86.8	86.0	85.6	85.6	85.6
175°	89.5	88.7	87.9	87.5	87.1	86.8	86.4	86.0	86.0	86.0
177.5°	87.9	87.5	87.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1
180°	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

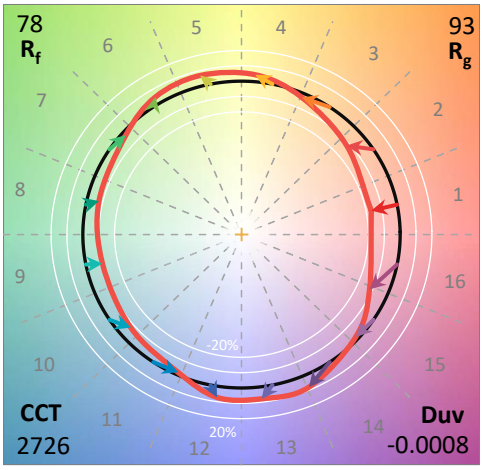
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

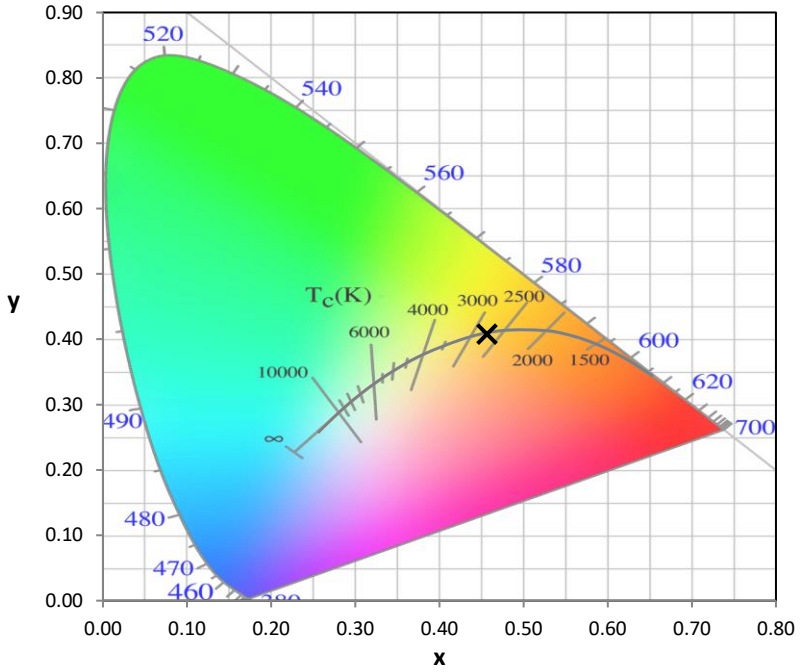
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

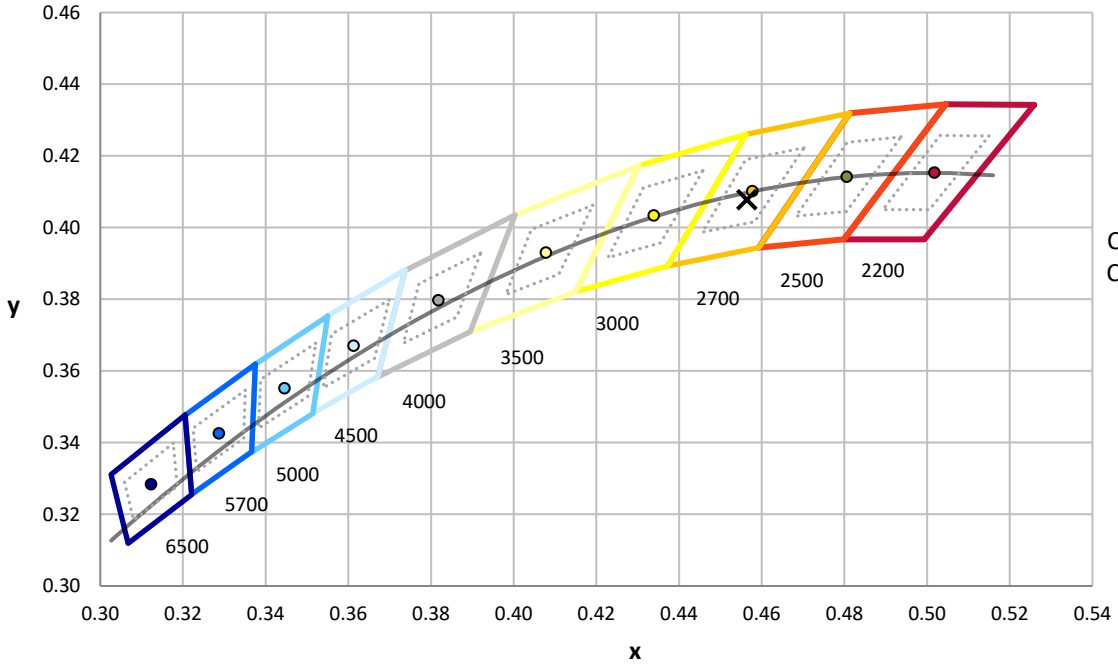
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

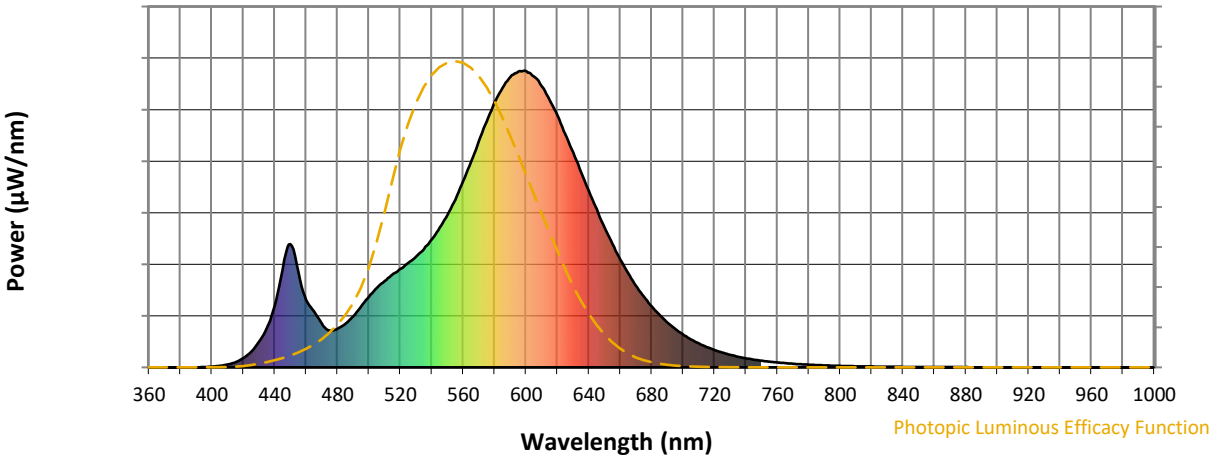


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

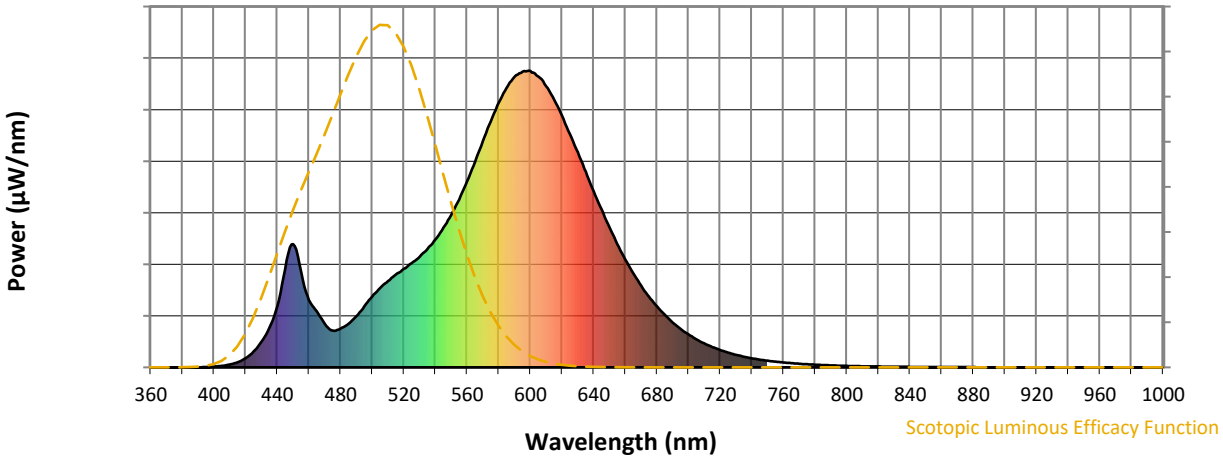


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

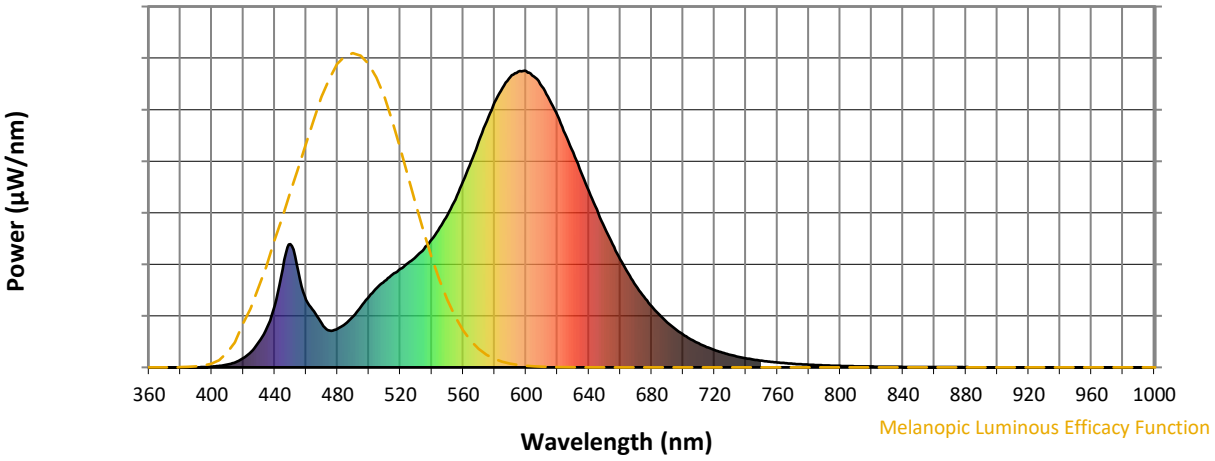


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

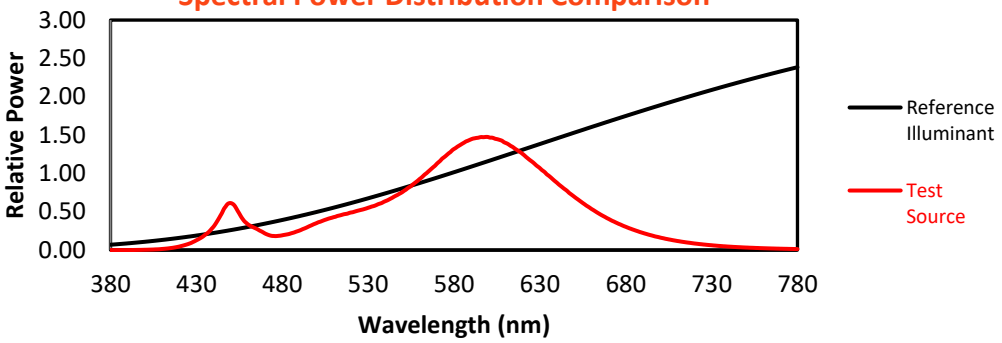
REPORT NUMBER: SP1-2501-332-3

TM-30-18

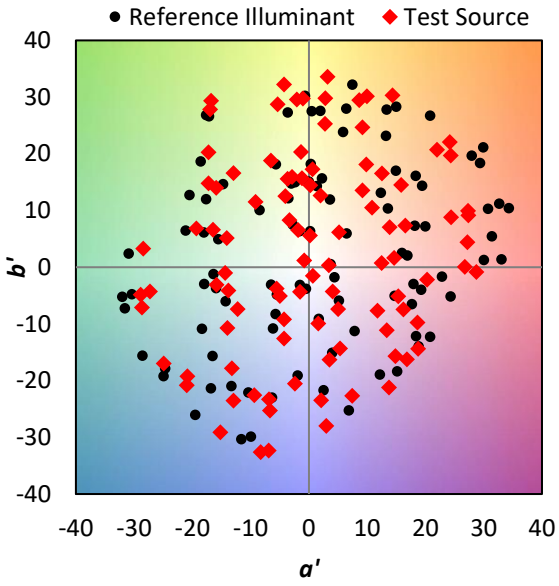
Summary

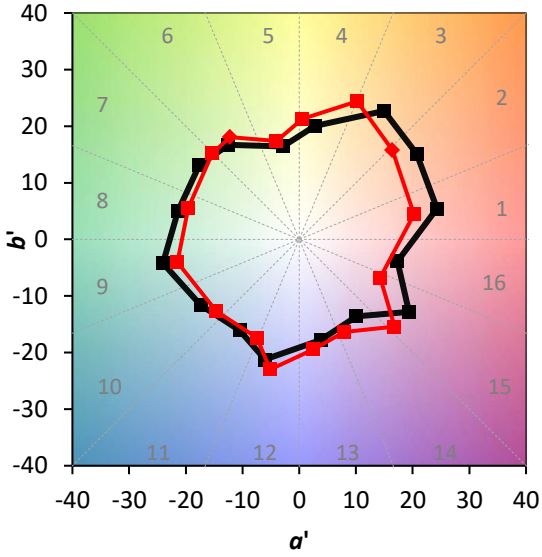
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

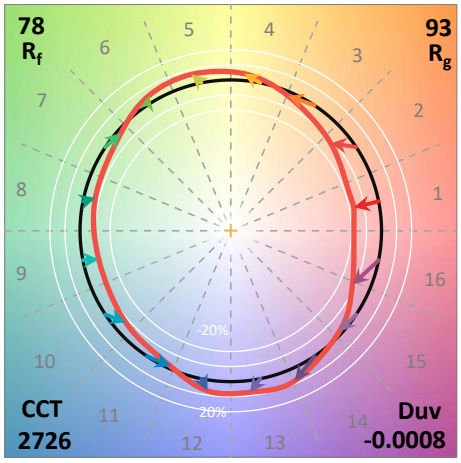
Spectral Power Distribution Comparison

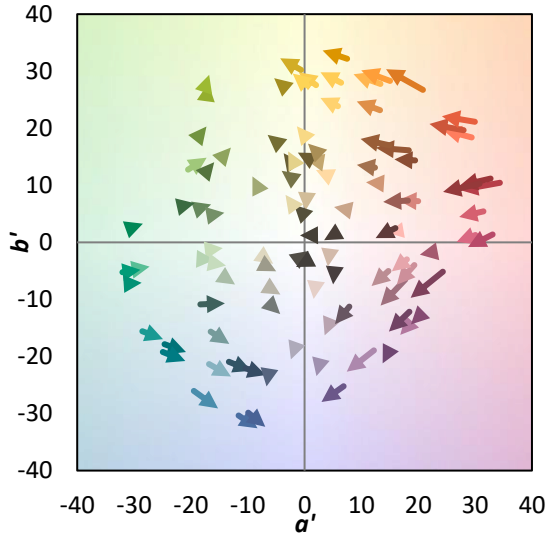


Color Vector Graphics







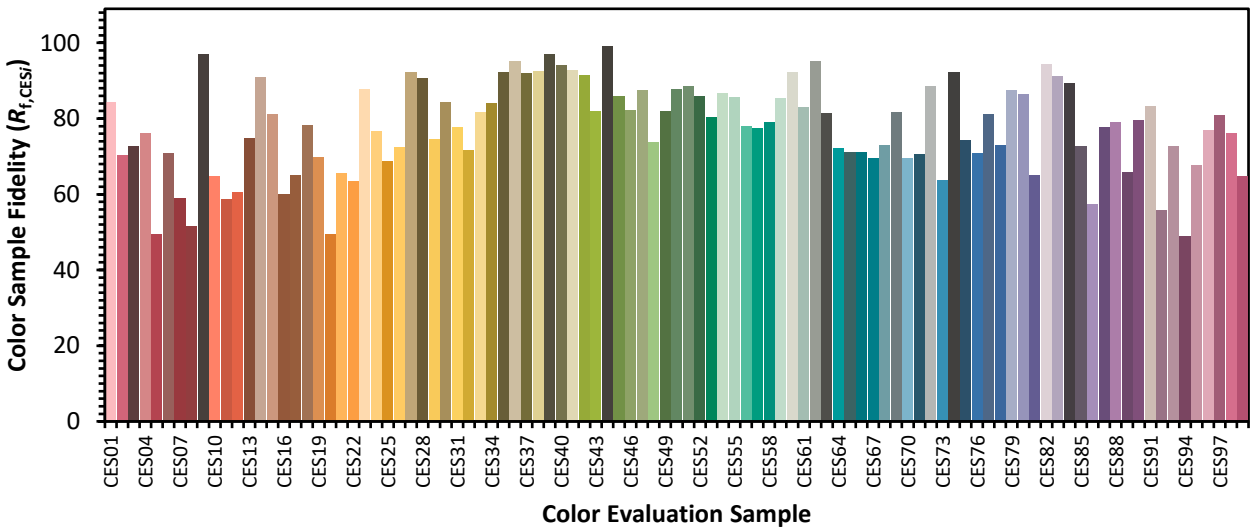


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

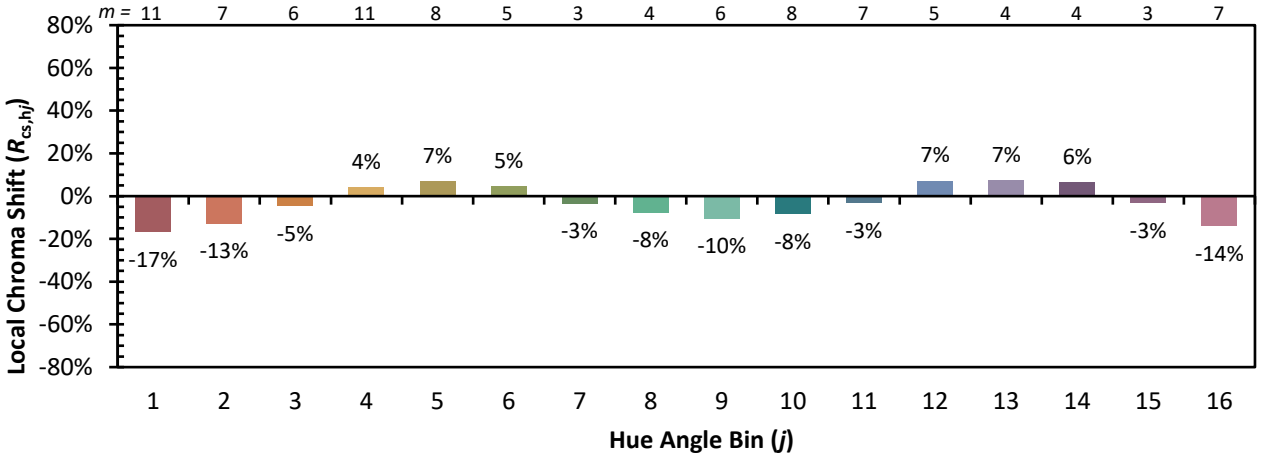
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

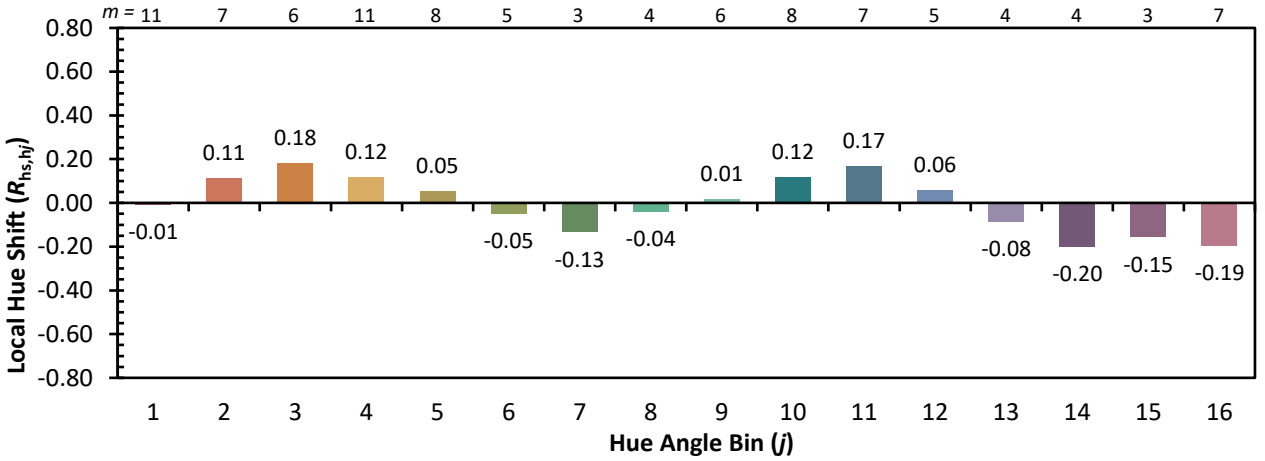


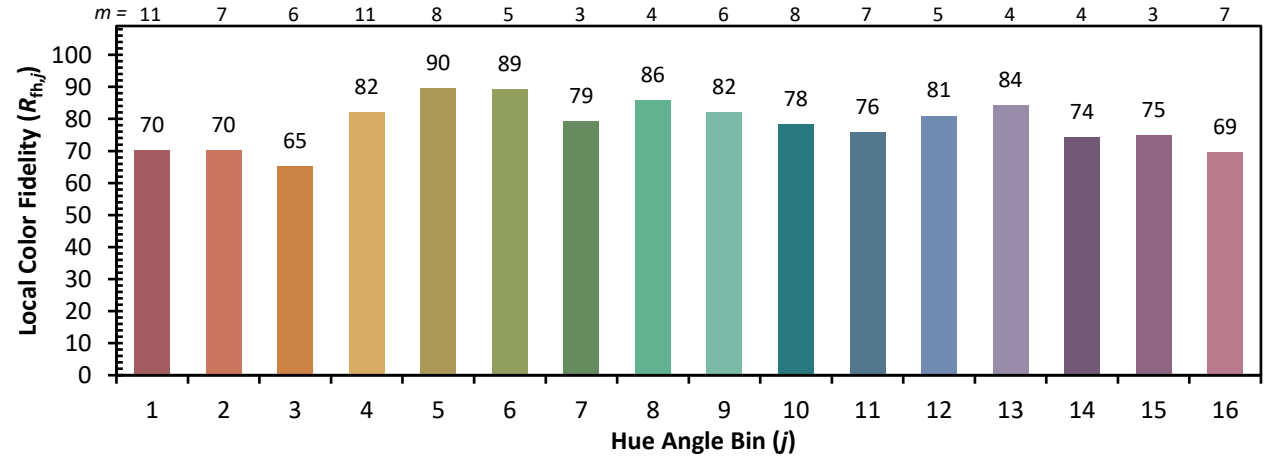
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



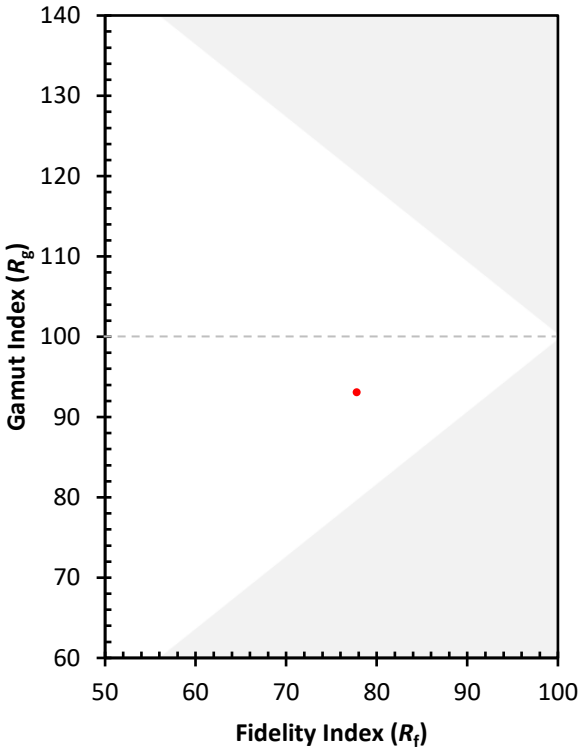


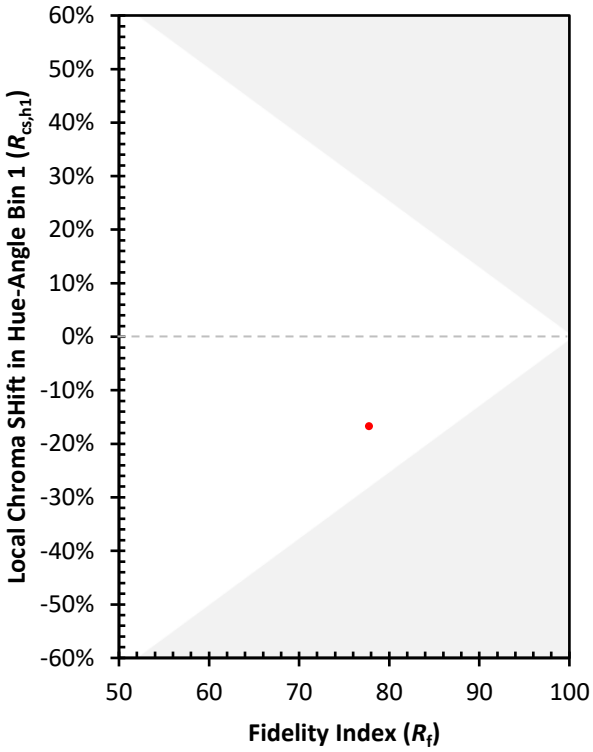


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TM-30-18

Measure Comparisons





(END OF REPORT)