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: P981420

Luminaire Tested: **FFX-CLB-50-727-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

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1121 Highway 74 South
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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981420
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-727-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7424.2 lumens
Efficiency:	N/A
Efficacy:	146.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - U5 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

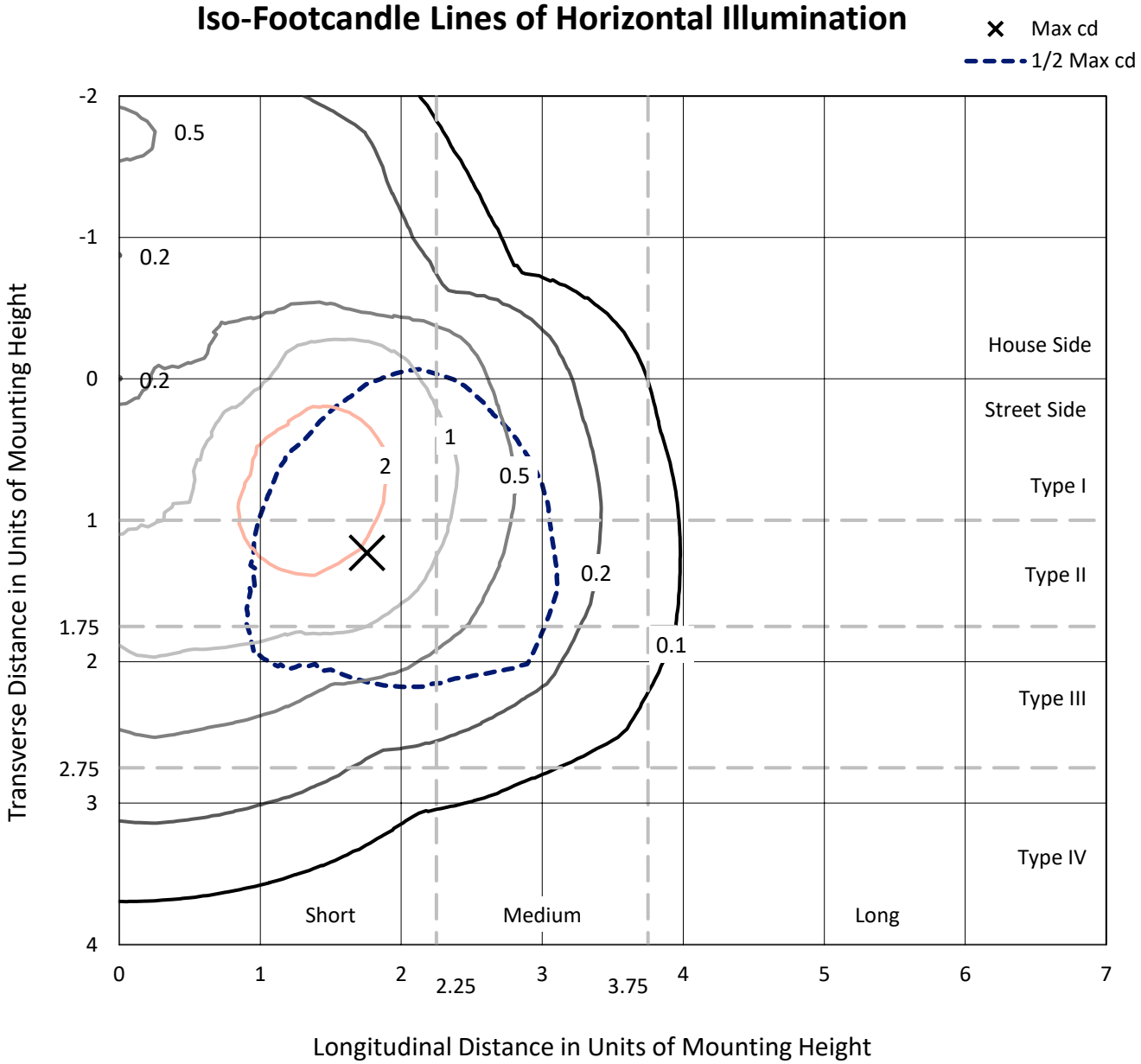


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Iso-Footcandle Lines of Horizontal Illumination



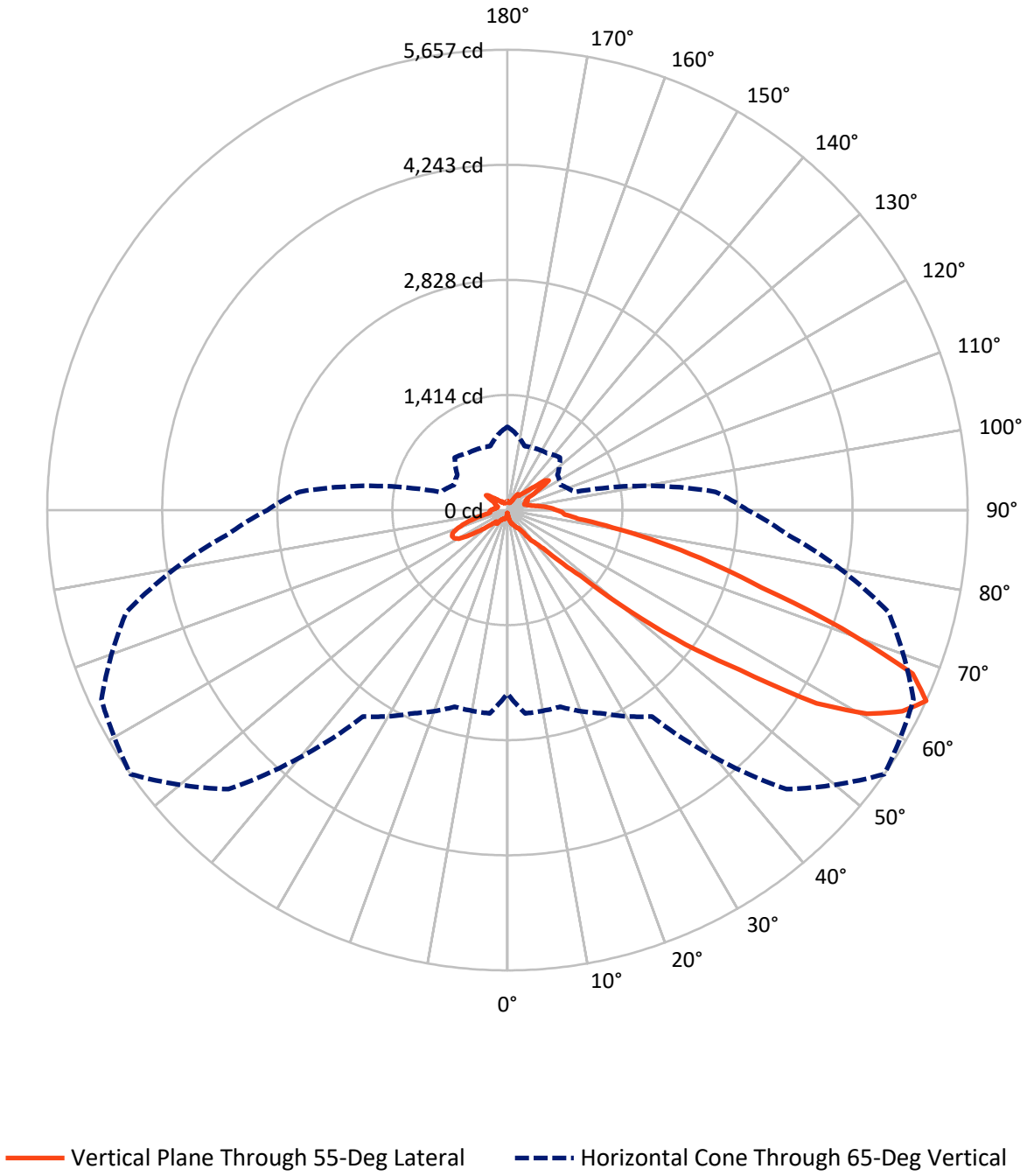
Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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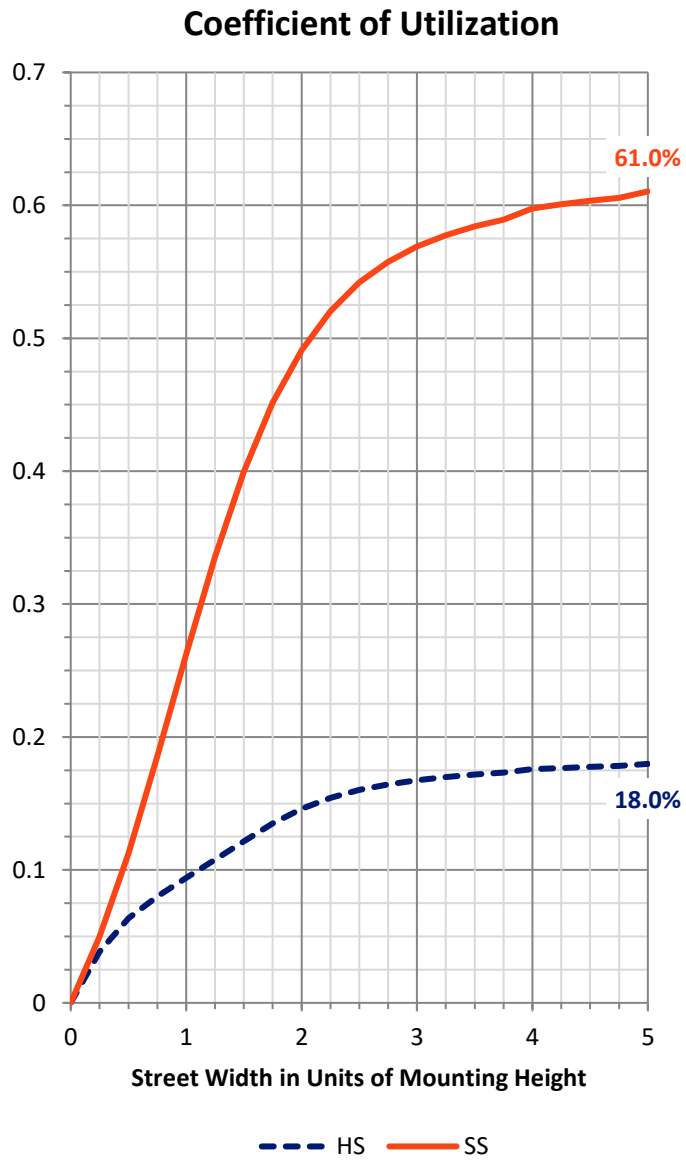
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1391.6	498.6	1890.2
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	4678.8	855.3	5534.0
	% Fixture	63.0	11.5	74.5
Total	Lumens	6070.4	1353.8	7424.2
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.1
10°-20°	37.7	0.5
20°-30°	77.5	1.0
30°-40°	162.3	2.2
40°-50°	428.6	5.8
50°-60°	1426.3	19.2
60°-70°	2300.7	31.0
70°-80°	1206.9	16.3
80°-90°	423.5	5.7
90°-100°	273.4	3.7
100°-110°	177.3	2.4
110°-120°	194.5	2.6
120°-130°	327.1	4.4
130°-140°	191.6	2.6
140°-150°	102.5	1.4
150°-160°	50.9	0.7
160°-170°	26.8	0.4
170°-180°	9.7	0.1
0°-90°	6070.4	81.8
0°-180°	7424.2	100.0



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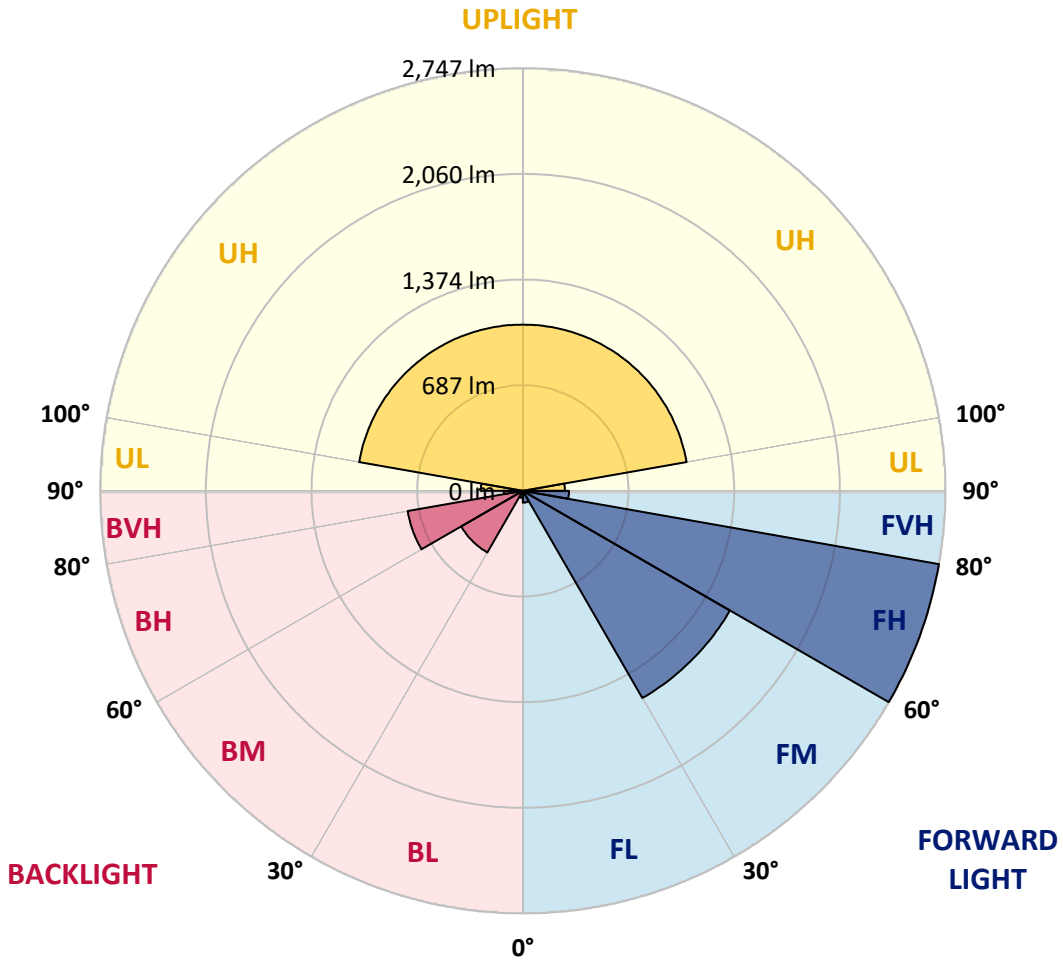
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	77.0	1.0			
FM	(30°-60°)	1554.8	20.9			
FH	(60°-80°)	2747.1	37.0			G2/5000
FVH	(80°-90°)	299.8	4.0			G3/500
BL	(0°-30°)	45.1	0.6	B0/110		
BM	(30°-60°)	462.4	6.2	B1/1000		
BH	(60°-80°)	760.4	10.2	B2/1000		G2/1000
BVH	(80°-90°)	123.7	1.7			G2/225
UL	(90°-100°)	273.4	3.7		U3/500	
UH	(100°-180°)	1080.4	14.6		U5	

BUG Rating: B2-U5-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
2.5°	42.0	43.0	45.5	46.4	46.9	46.0	44.0	46.0	46.0	46.0	45.5
5°	61.1	61.1	61.1	62.6	63.1	64.0	63.1	60.6	58.7	56.7	56.2
7.5°	85.6	86.5	87.0	87.0	87.0	89.0	90.9	86.5	82.6	78.7	77.7
10°	122.7	120.3	117.8	118.8	116.8	112.9	114.9	111.5	102.7	99.7	99.7
12.5°	156.9	156.4	157.4	152.0	149.1	140.8	141.8	139.8	133.5	123.2	119.8
15°	176.0	177.5	177.0	178.9	174.5	162.8	159.9	160.8	155.0	145.2	140.3
17.5°	185.8	185.8	186.3	188.7	188.7	177.5	172.6	170.1	165.2	156.9	150.6
20°	190.7	190.7	190.2	193.6	200.4	194.1	187.2	183.3	178.9	165.7	156.0
22.5°	204.4	203.4	201.9	202.9	213.2	211.2	205.8	200.0	193.6	173.6	161.3
25°	218.5	219.0	214.6	216.1	226.4	229.3	224.9	219.0	211.7	181.4	169.2
27.5°	234.7	234.2	228.3	230.3	235.6	246.4	241.0	238.1	225.9	187.7	176.0
30°	249.3	246.9	241.0	245.9	245.9	263.0	258.1	259.6	244.4	199.5	186.8
32.5°	260.1	259.6	256.2	262.5	259.1	281.1	279.6	291.9	269.4	222.4	210.7
35°	284.5	285.0	299.2	311.4	305.5	337.8	344.7	360.3	332.9	279.6	266.9
37.5°	460.5	454.7	435.1	412.6	415.5	475.7	467.4	475.7	433.6	356.9	336.8
40°	485.0	486.4	463.9	446.8	444.4	521.1	533.9	601.3	513.3	427.8	388.2
42.5°	472.3	477.1	538.7	560.7	541.2	639.0	642.9	772.9	598.9	527.5	475.2
45°	598.9	599.9	612.6	626.7	629.2	872.6	886.3	1030.1	761.7	664.4	575.9
47.5°	681.5	689.3	706.9	803.7	855.0	1115.6	1207.0	1435.3	1014.4	905.9	731.4
50°	963.6	985.1	1072.1	1155.2	1235.4	1654.4	1961.9	2234.2	1523.8	1327.8	1062.8
52.5°	1174.3	1251.5	1348.8	1549.3	1633.8	2261.1	2744.1	2912.7	2134.4	1799.6	1448.1
55°	1357.1	1498.9	1604.0	1932.0	2092.9	2947.9	3463.2	3487.7	2864.3	2196.5	1856.8
57.5°	1733.6	1940.4	2008.8	2289.4	2513.3	3765.8	4481.5	4361.3	3609.4	2648.7	2292.8
60°	2088.0	2326.1	2300.7	2559.3	2855.5	4469.3	5084.3	5023.2	4307.5	3077.0	2674.2
62.5°	2203.4	2444.9	2423.4	2695.2	3093.6	4797.4	5446.1	5344.9	4719.6	3344.9	2865.8
65°	2253.7	2508.4	2502.6	2756.8	3096.6	4849.7	5656.8	5506.2	4849.2	3452.9	2949.9
67.5°	2210.7	2453.2	2450.7	2684.9	2870.7	4470.3	5371.8	5149.8	4529.9	3198.7	2768.5
70°	1907.6	2076.3	2066.0	2209.7	2307.0	3553.2	4359.3	4191.6	3655.8	2628.7	2293.3
72.5°	1555.6	1605.5	1627.0	1709.1	1735.0	2600.3	3269.1	3135.7	2726.0	1968.7	1738.9
75°	1242.2	1244.7	1267.2	1296.0	1287.2	1913.0	2574.9	2492.3	2010.3	1468.6	1319.0
77.5°	822.3	815.9	914.7	926.4	870.2	1218.8	1922.8	1864.6	1438.8	1070.2	964.6
80°	471.8	473.7	541.2	583.7	561.2	774.4	1317.5	1304.8	988.0	749.0	662.4
82.5°	352.0	368.6	404.8	427.3	418.5	582.3	876.6	900.5	702.0	538.7	492.3
85°	392.1	401.4	405.3	406.7	396.0	544.6	707.9	706.4	590.1	452.2	436.6
87.5°	381.8	389.6	393.1	395.0	384.3	520.7	668.8	659.0	566.1	434.6	411.6
90°	321.2	339.3	338.8	355.9	343.7	457.6	586.7	580.3	513.8	400.4	373.5
92.5°	269.4	279.6	286.5	309.9	299.2	402.8	527.5	512.8	460.0	364.2	335.4
95°	251.8	261.1	266.4	279.6	266.4	348.1	444.4	431.2	381.8	303.6	275.7
97.5°	212.2	215.1	220.0	228.8	220.0	282.1	359.8	347.1	306.5	247.9	228.3
100°	179.9	182.8	189.2	195.6	191.2	241.5	301.1	294.3	263.5	215.6	202.4
102.5°	170.1	172.1	180.4	184.3	178.9	222.0	265.9	265.9	238.6	199.0	188.2
105°	162.3	164.8	171.1	172.6	168.7	204.4	245.4	243.0	221.5	186.3	176.0
107.5°	154.5	157.4	162.8	160.4	158.4	188.2	220.5	224.4	205.8	177.0	170.1
110°	162.8	163.8	168.2	164.3	167.7	187.2	221.5	222.4	217.1	193.1	185.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	221.5	216.1	225.4	210.7	222.0	235.6	*257.1*	265.0	258.6	231.2	224.9
115°	242.5	246.4	256.2	241.5	248.8	265.5	*275.7*	277.2	269.9	252.3	249.8
117.5°	189.2	208.8	198.5	207.3	210.2	233.2	*256.7*	263.5	256.7	232.2	247.4
120°	242.0	257.6	222.4	211.7	226.4	266.4	*287.9*	293.8	275.2	275.7	285.0
122.5°	401.4	410.2	432.2	443.4	426.3	450.7	*458.1*	463.5	435.1	401.9	385.2
125°	609.1	602.8	599.9	596.9	592.5	618.4	*623.3*	609.6	581.3	534.8	508.9
127.5°	551.0	556.3	564.7	563.7	559.8	579.8	*592.0*	583.7	575.9	531.4	516.3
130°	396.5	398.9	413.6	440.0	437.1	453.2	*454.7*	463.0	476.2	456.6	441.0
132.5°	328.5	331.0	353.0	364.7	365.7	366.2	*359.3*	378.4	392.1	372.5	359.3
135°	286.5	286.5	291.4	287.0	288.4	301.1	*307.0*	324.1	327.5	318.3	305.1
137.5°	253.2	254.2	244.0	235.6	237.1	260.1	*273.3*	286.5	279.6	260.6	251.3
140°	220.5	215.1	200.9	198.5	209.2	231.2	*239.1*	248.3	250.3	225.9	213.6
142.5°	162.3	160.4	166.7	179.9	185.8	222.4	*216.6*	234.2	235.2	194.1	174.0
145°	181.4	180.9	180.4	182.8	196.5	249.8	*235.6*	258.1	268.9	206.3	168.7
147.5°	204.8	204.4	200.0	194.6	215.1	228.3	*215.6*	235.2	246.9	204.8	163.3
150°	158.4	159.4	156.9	155.5	178.0	175.5	*172.6*	178.0	182.8	169.6	148.6
152.5°	123.2	121.2	119.8	120.3	138.8	135.9	*135.9*	139.8	140.3	135.4	124.7
155°	111.0	110.5	109.5	111.5	122.7	119.8	*117.3*	116.4	113.9	112.4	111.0
157.5°	104.1	103.2	103.2	106.1	113.9	109.0	*108.0*	107.1	105.6	105.6	106.1
160°	97.3	96.8	96.8	101.2	103.6	99.2	*98.3*	97.8	97.3	98.3	99.2
162.5°	93.4	93.4	93.4	96.3	96.3	93.4	*92.4*	91.9	92.4	95.8	96.3
165°	91.9	91.4	91.9	93.4	92.9	90.9	*90.4*	90.4	91.9	94.8	95.3
167.5°	94.4	94.4	94.4	94.8	94.4	92.4	*91.9*	91.9	93.4	95.8	95.8
170°	98.3	97.8	97.8	97.8	97.3	95.3	*94.4*	94.8	95.3	96.8	96.8
172.5°	101.7	101.7	101.2	100.7	99.7	98.8	*97.8*	97.8	97.8	98.3	98.3
175°	105.6	105.6	105.6	105.1	105.1	103.6	*103.2*	102.7	102.2	101.7	101.2
177.5°	110.0	109.5	109.5	109.5	109.5	108.0	*107.1*	106.6	105.6	105.1	105.1
180°	108.0	108.0	108.0	108.0	108.0	108.0	*108.0*	108.0	108.0	108.0	108.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
2.5°	45.5	44.0	41.6	37.2	35.7	34.2	32.8	29.8	28.4	27.4
5°	55.7	53.8	53.3	50.8	47.4	44.5	44.0	43.0	42.5	41.1
7.5°	79.7	80.7	83.1	78.7	68.9	63.6	65.0	70.4	68.4	68.0
10°	100.2	106.6	111.5	100.2	82.6	71.4	71.9	82.6	83.6	85.6
12.5°	117.3	122.7	121.7	107.6	90.9	80.2	76.8	82.6	88.0	88.5
15°	135.9	126.6	123.2	111.5	99.7	91.4	90.0	91.4	91.4	90.4
17.5°	143.7	127.6	117.8	108.0	99.7	93.9	91.9	89.5	86.0	86.0
20°	145.7	131.5	120.3	110.0	101.7	95.3	90.0	87.0	86.0	86.0
22.5°	151.6	138.8	127.1	114.9	106.1	97.8	91.4	88.5	88.5	89.0
25°	159.9	148.1	133.5	120.8	111.5	102.7	94.4	90.0	89.5	90.0
27.5°	170.1	157.9	141.8	128.1	117.3	107.6	97.3	91.9	90.0	90.0
30°	181.9	167.7	149.6	134.4	122.7	113.9	101.2	93.9	91.4	90.4
32.5°	202.9	186.8	159.4	142.8	129.6	119.8	107.1	97.8	92.9	91.9
35°	254.7	229.8	194.1	163.8	143.7	126.6	111.5	100.2	93.9	92.9
37.5°	310.9	273.3	239.6	205.8	176.5	148.6	119.8	104.1	96.3	94.8
40°	346.1	296.7	266.9	216.6	212.7	189.7	147.2	114.9	101.2	99.2
42.5°	418.5	344.7	297.2	191.2	207.8	212.7	185.8	144.2	114.4	111.0
45°	504.0	405.3	333.4	204.4	214.1	208.3	190.2	167.2	142.8	135.9
47.5°	653.1	462.5	346.1	237.1	244.9	228.8	201.9	178.0	159.9	157.4
50°	942.6	630.7	389.6	291.4	314.8	269.9	235.2	216.6	192.1	189.2
52.5°	1315.1	759.2	437.5	376.9	430.2	374.5	318.3	280.6	275.2	277.2
55°	1718.9	798.8	500.6	465.9	559.3	507.0	442.4	406.3	441.9	453.2
57.5°	2119.3	858.5	592.0	581.3	700.1	620.4	569.5	585.2	733.8	769.5
60°	2434.6	909.3	669.3	692.3	839.4	752.9	731.4	754.3	1009.5	1104.4
62.5°	2558.3	886.3	709.4	739.2	904.9	845.8	838.4	860.4	1075.5	1168.9
65°	*2567.6*	*851.1*	*725.0*	*751.9*	*915.2*	*852.1*	*832.1*	*813.5*	*963.1*	*1022.2*
67.5°	2375.9	780.7	705.9	733.8	869.7	786.1	744.6	702.5	779.3	812.0
70°	1915.4	692.3	646.3	662.4	731.4	654.1	597.4	568.6	595.9	593.5
72.5°	1451.0	609.6	580.8	564.7	597.4	534.8	472.3	444.4	468.8	462.5
75°	1108.3	544.1	517.2	463.5	495.2	410.7	341.7	322.7	334.4	330.0
77.5°	799.8	436.1	400.4	341.2	382.3	298.7	229.3	215.6	218.5	209.2
80°	575.9	325.1	290.4	248.3	281.1	213.6	170.1	167.2	168.7	158.9
82.5°	452.2	260.6	237.6	215.1	225.4	193.1	163.8	160.8	162.3	151.6
85°	421.4	255.2	231.2	216.6	220.0	190.2	158.9	157.9	160.4	148.6
87.5°	397.5	252.7	233.7	212.7	204.4	174.5	147.2	151.6	158.4	146.2
90°	350.5	235.6	219.0	200.0	191.2	163.8	147.2	153.5	153.0	144.2
92.5°	309.0	210.2	197.0	186.3	184.3	166.7	154.0	159.9	161.8	153.0
95°	253.2	177.5	171.1	167.7	170.6	153.5	142.8	145.7	143.7	138.8
97.5°	215.6	161.8	157.4	152.5	149.6	137.4	128.1	132.0	134.0	129.6
100°	195.1	154.0	150.6	145.2	144.7	136.4	131.5	139.3	145.2	142.8
102.5°	182.4	146.2	141.8	136.9	135.4	128.6	124.7	129.6	134.9	130.0
105°	173.1	138.8	132.0	127.6	125.2	120.3	115.4	117.3	123.2	120.8
107.5°	164.3	138.4	127.6	124.2	124.2	117.8	111.0	111.5	114.4	113.9
110°	178.0	153.5	134.0	129.1	127.6	125.6	120.8	115.9	112.0	112.0

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

Scaled Data Report

REPORT NUMBER: P981420
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	213.2	188.2	168.2	152.5	146.2	138.8	128.6	121.2	115.9	114.4
115°	228.8	201.9	182.8	165.7	151.1	136.9	128.1	122.7	119.8	122.7
117.5°	215.6	178.4	176.0	158.4	144.7	133.5	131.0	122.2	127.1	127.1
120°	242.5	207.3	201.9	176.5	157.4	143.2	141.8	140.3	134.9	132.5
122.5°	354.4	308.5	286.5	248.8	216.1	186.8	170.1	147.2	131.0	127.6
125°	481.5	420.9	368.1	318.3	268.9	216.6	172.6	138.4	121.7	119.3
127.5°	483.0	421.4	363.2	302.6	248.8	194.1	155.0	131.0	119.3	118.8
130°	424.8	371.1	307.0	246.9	203.4	167.2	138.8	119.3	111.0	108.5
132.5°	338.3	290.4	249.3	212.2	178.9	148.1	122.7	109.0	104.1	103.6
135°	284.5	243.0	214.1	186.8	160.8	133.5	110.0	103.2	100.7	99.7
137.5°	232.2	207.3	189.7	167.7	142.8	120.3	104.6	101.7	100.7	98.8
140°	201.4	184.8	165.7	141.3	122.2	103.6	95.3	97.8	100.2	99.7
142.5°	164.3	152.0	137.9	121.7	108.5	100.2	96.8	98.3	98.3	98.8
145°	156.0	139.8	132.0	122.2	113.4	107.1	98.8	95.8	95.3	95.3
147.5°	144.7	138.4	133.5	126.6	113.4	101.7	92.4	90.9	92.9	92.4
150°	135.4	131.0	125.2	114.4	101.2	93.4	88.5	89.0	92.4	92.9
152.5°	114.9	112.4	108.5	101.7	92.4	88.5	86.0	88.0	90.4	90.9
155°	102.2	100.7	99.7	95.3	89.5	87.0	86.0	87.5	90.0	90.4
157.5°	101.2	97.8	96.3	93.4	89.0	86.5	86.5	88.0	89.5	90.0
160°	98.3	93.9	93.4	90.4	89.5	88.0	89.0	89.5	90.9	90.4
162.5°	95.8	92.9	92.4	90.4	91.4	92.9	92.9	93.4	94.4	93.9
165°	94.8	92.4	91.9	91.9	94.8	97.3	97.8	97.3	97.3	97.3
167.5°	95.8	94.4	93.9	94.8	97.3	100.2	100.7	99.7	98.8	98.3
170°	97.3	96.8	97.3	97.8	99.2	101.2	101.2	100.2	100.2	100.2
172.5°	98.8	99.7	100.2	100.2	101.7	102.7	103.2	102.7	102.7	102.7
175°	101.7	102.2	102.2	102.7	104.1	105.1	106.1	106.1	106.1	106.1
177.5°	105.1	105.1	105.1	105.6	106.1	107.6	108.0	109.0	109.5	109.5
180°	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0

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

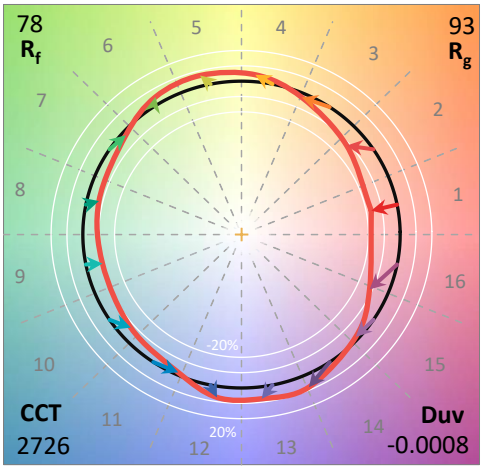
Test Information

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

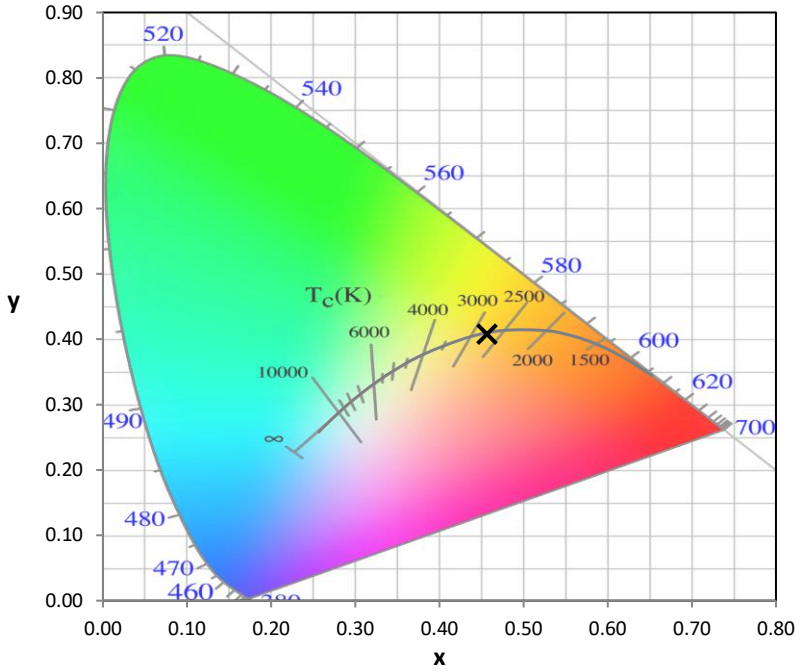
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

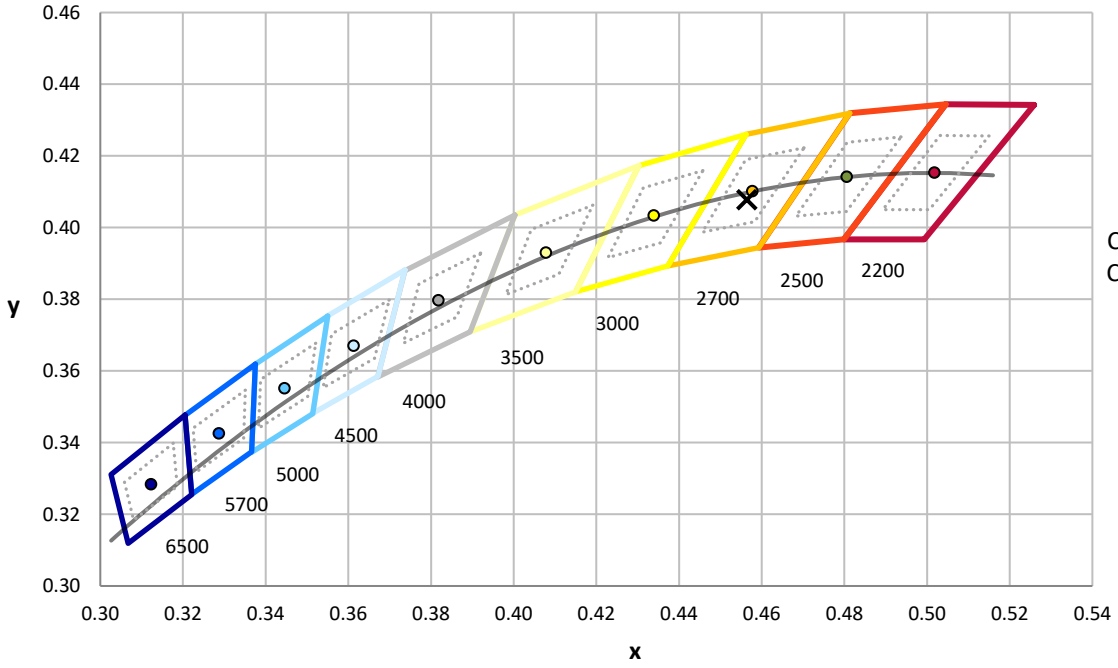
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

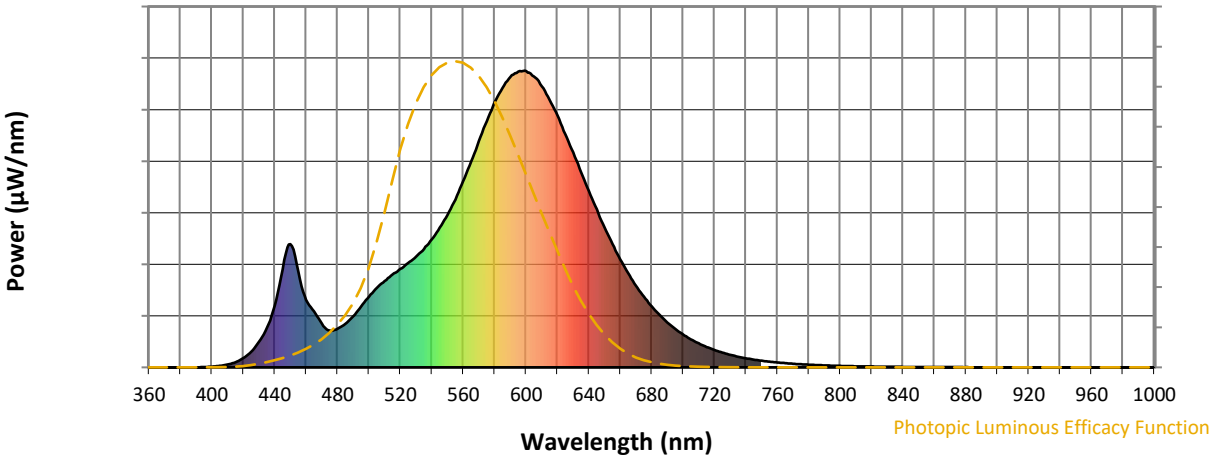


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

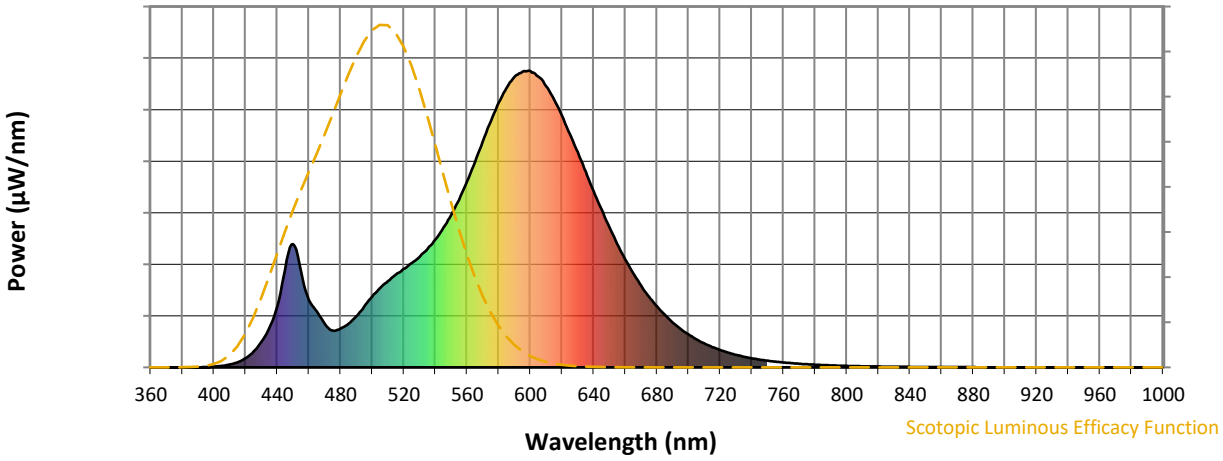


Photopic Lumens: NR

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

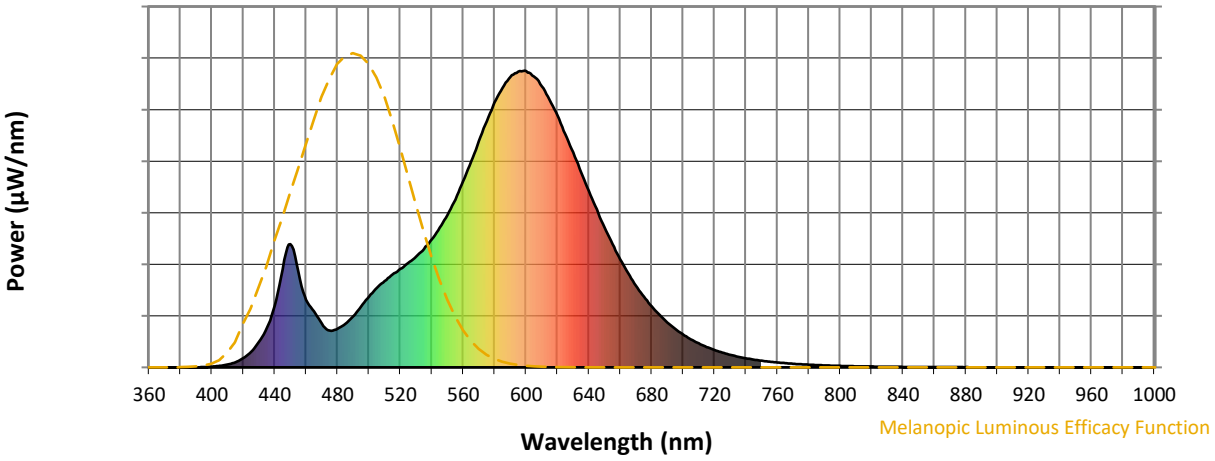


Scotopic Lumens: NR **S/P: 1.16**

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			

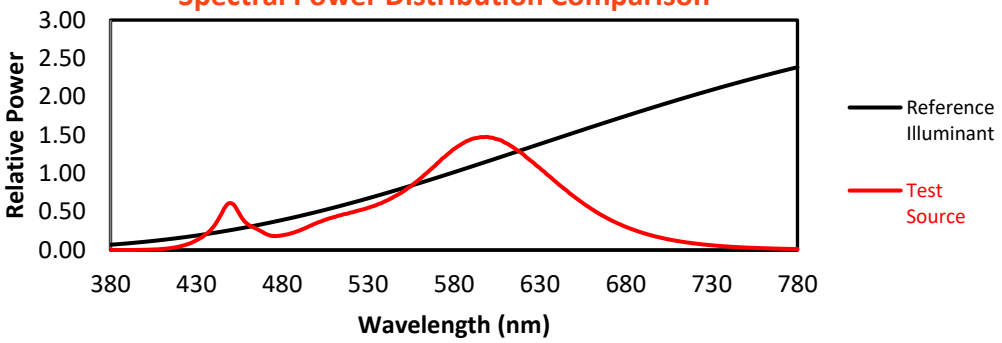
REPORT NUMBER: SP1-2501-332-3

TM-30-18

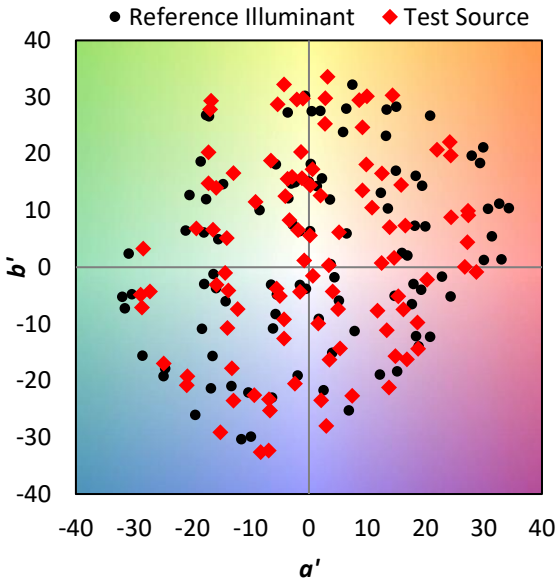
Summary

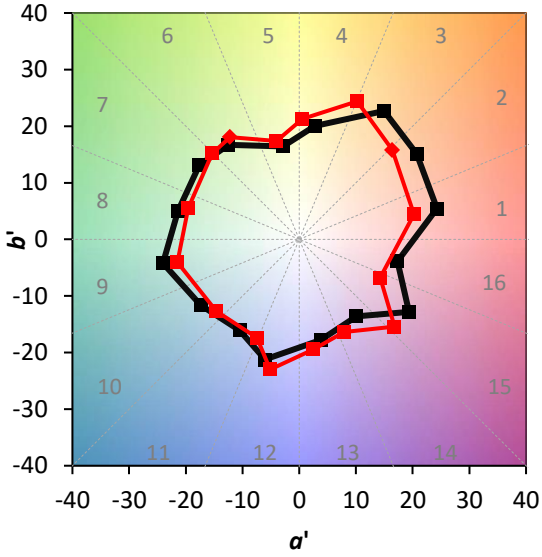
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

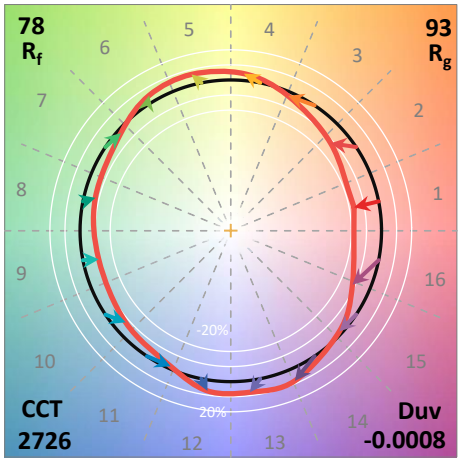
Spectral Power Distribution Comparison

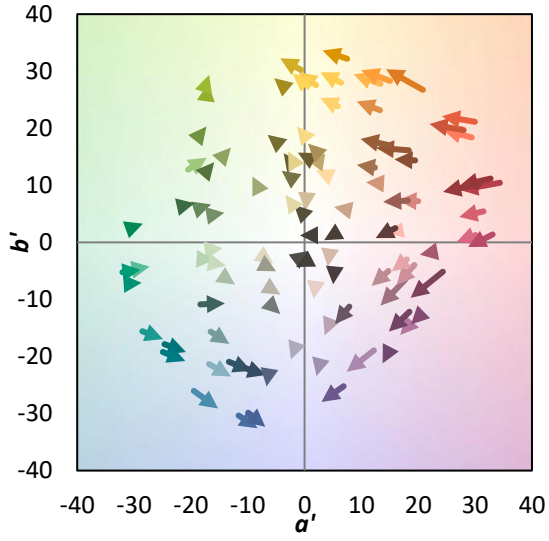


Color Vector Graphics







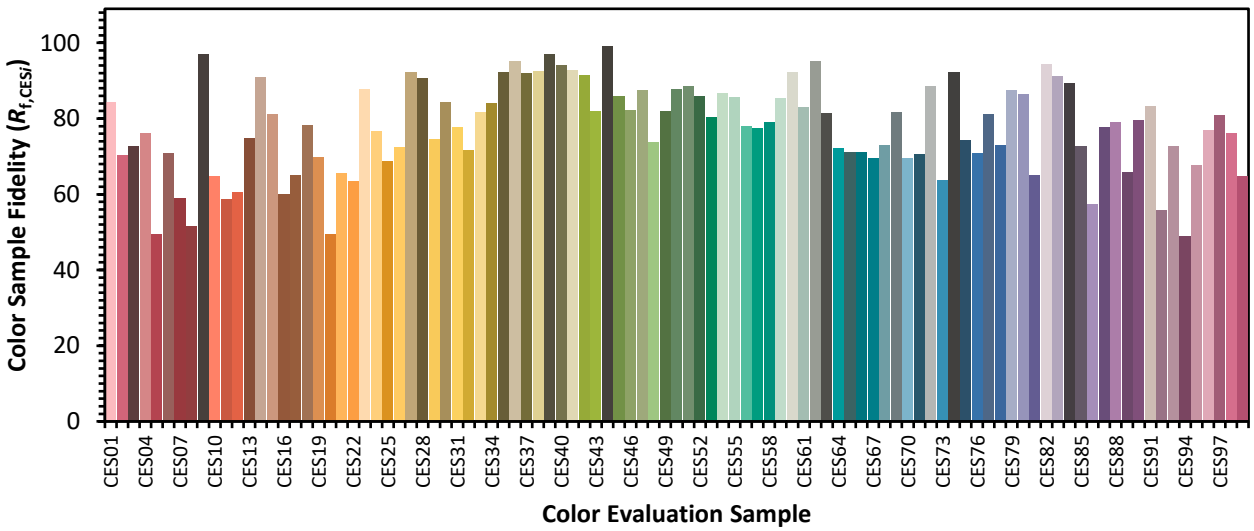


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

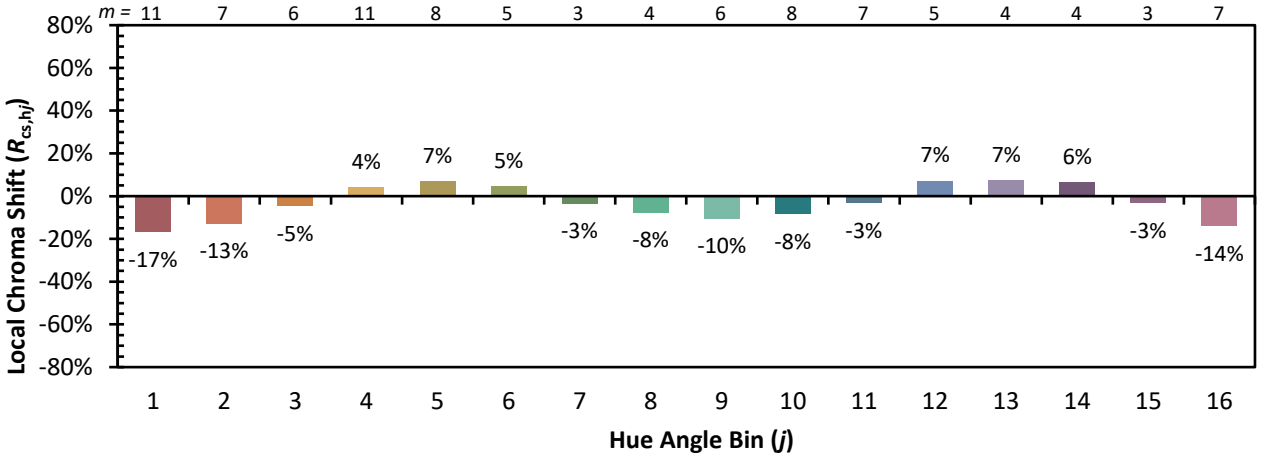
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 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	

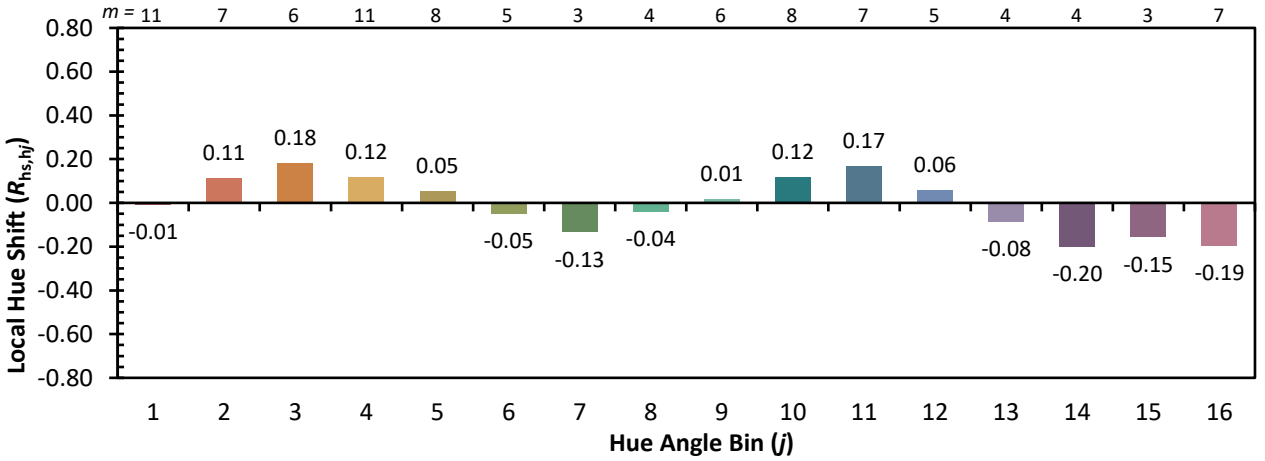


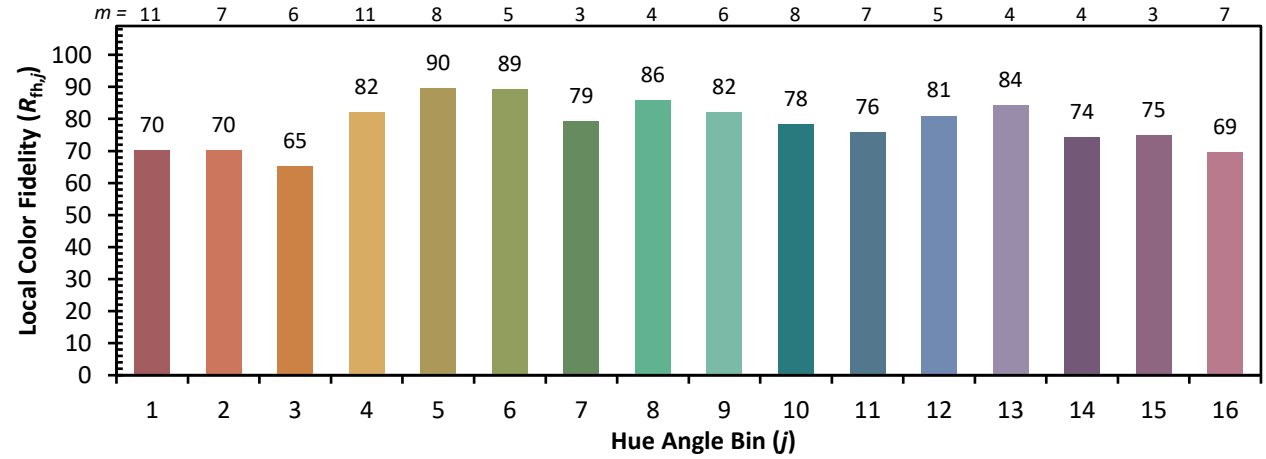
REPORT NUMBER: SP1-2501-332-3

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Color Rendition by Hue-Angle Bin



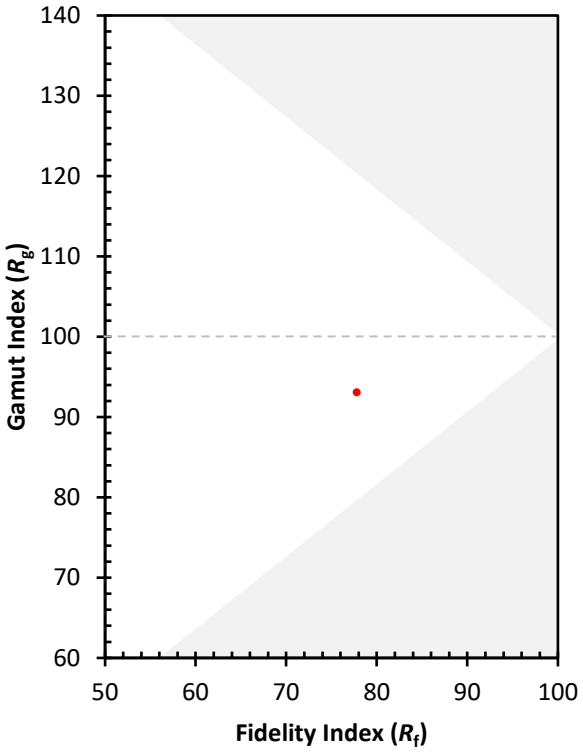


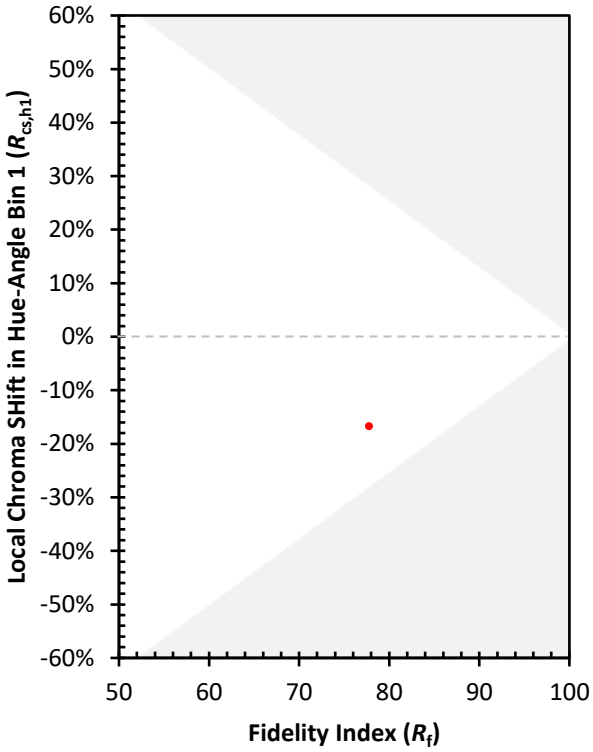


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Measure Comparisons





(END OF REPORT)