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: P981463

Luminaire Tested: **FFX-CLB-70-727-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981463
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-727-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10021.1 lumens
Efficiency:	N/A
Efficacy:	140.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U4 - G3

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

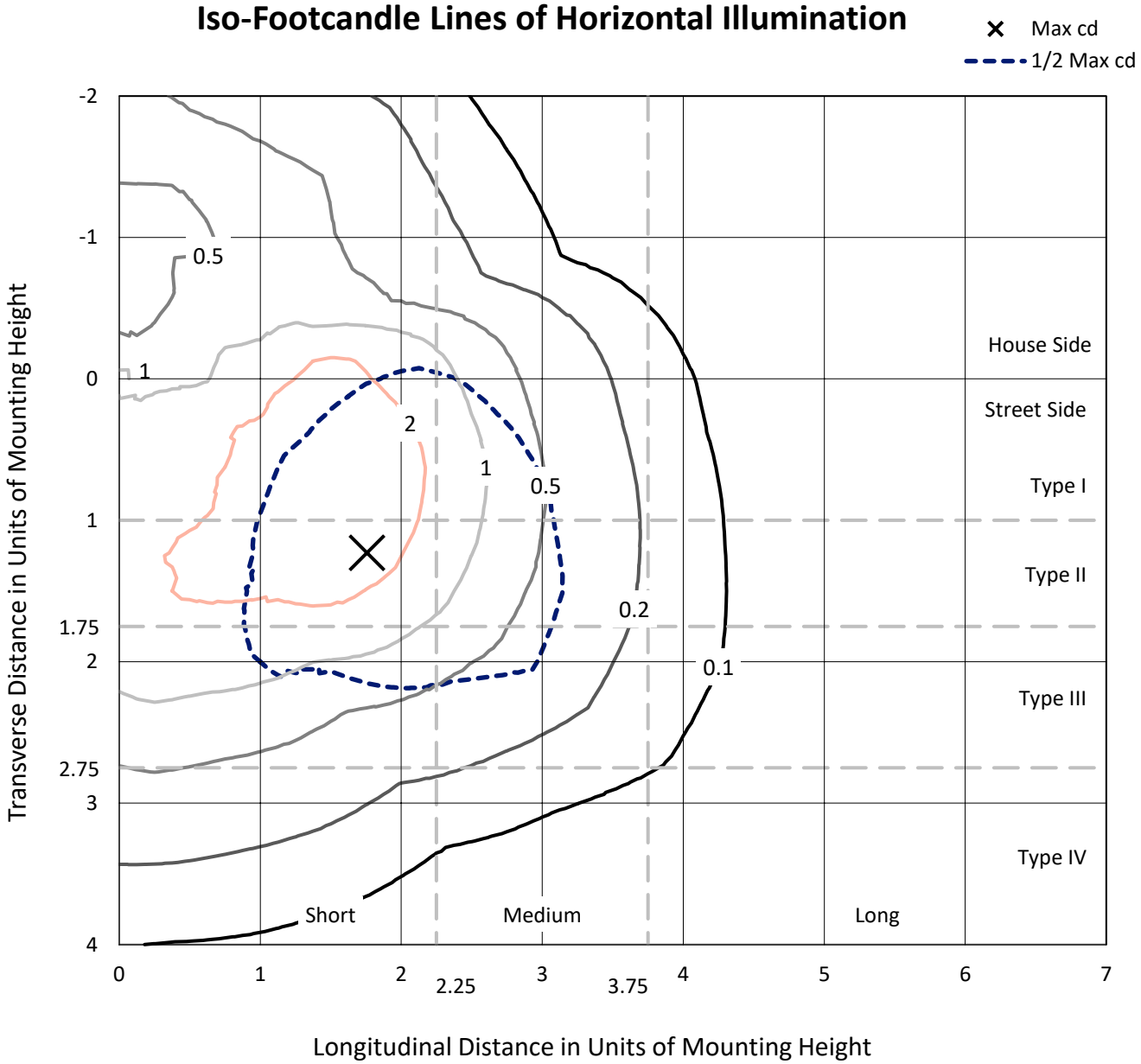


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Iso-Footcandle Lines of Horizontal Illumination



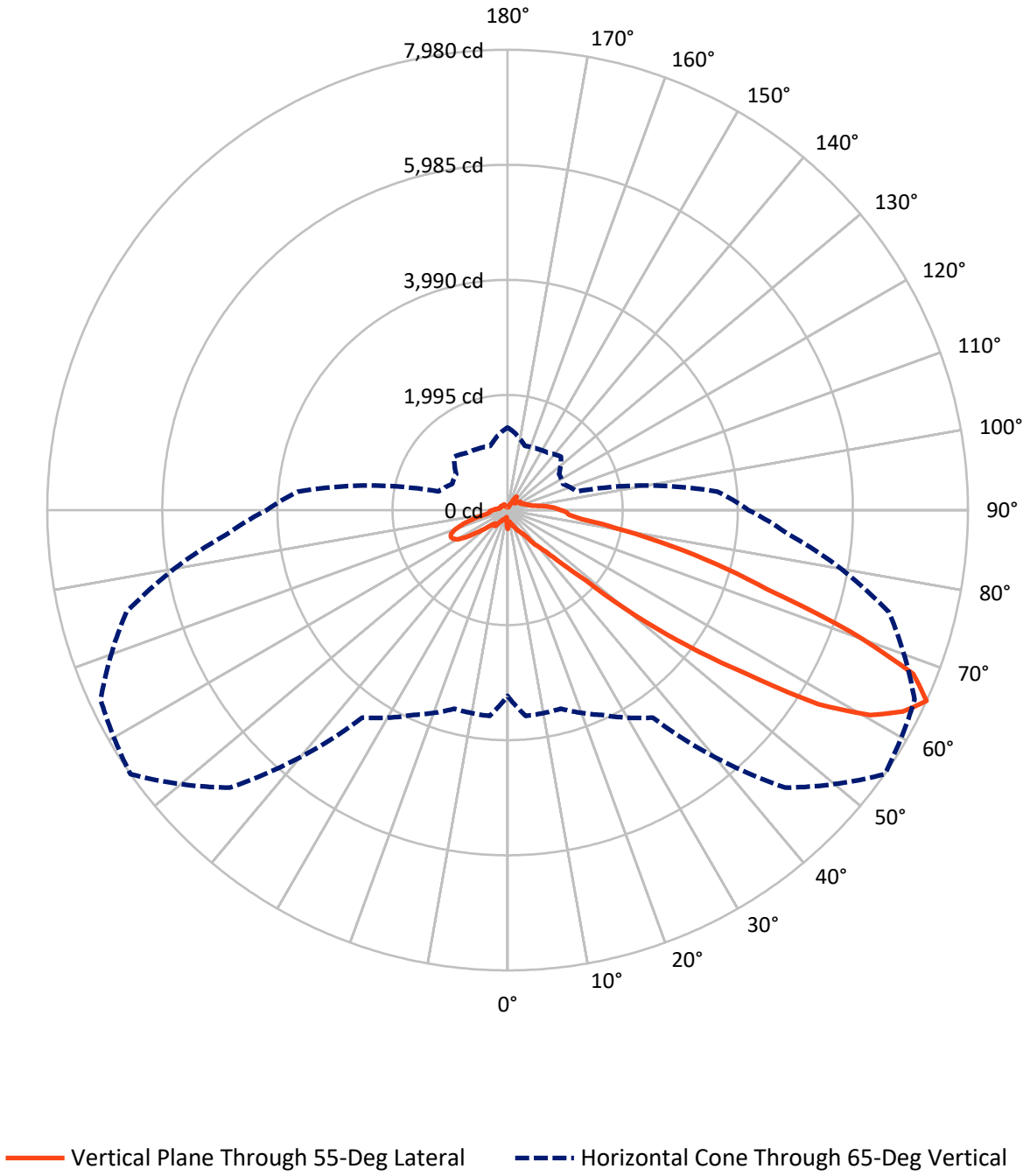
Based on 15 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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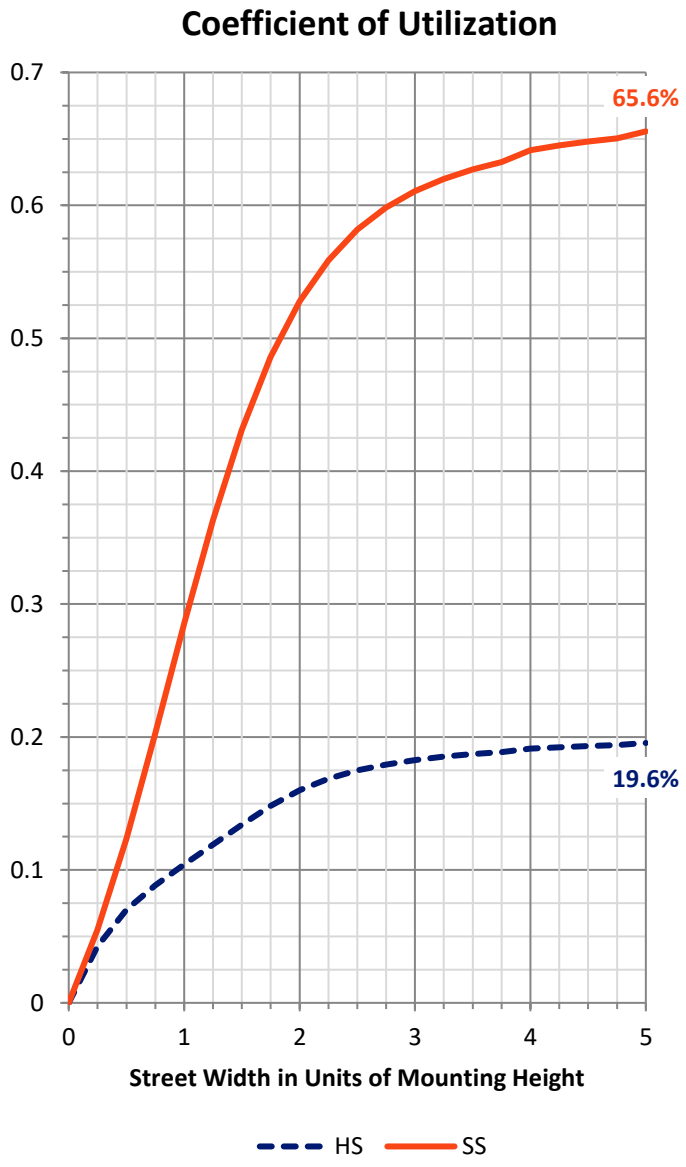
REPORT NUMBER: P981463
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2035.8	397.3	2433.0
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	6793.1	795.0	7588.0
	% Fixture	67.8	7.9	75.7
Total	Lumens	8828.8	1192.2	10021.1
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.8	0.2
10°-20°	61.3	0.6
20°-30°	125.3	1.3
30°-40°	271.6	2.7
40°-50°	659.3	6.6
50°-60°	2058.2	20.5
60°-70°	3270.5	32.6
70°-80°	1742.9	17.4
80°-90°	621.0	6.2
90°-100°	377.8	3.8
100°-110°	223.7	2.2
110°-120°	174.6	1.7
120°-130°	145.6	1.5
130°-140°	106.4	1.1
140°-150°	97.9	1.0
150°-160°	44.2	0.4
160°-170°	16.9	0.2
170°-180°	5.0	0.0
0°-90°	8828.8	88.1
0°-180°	10021.1	100.0



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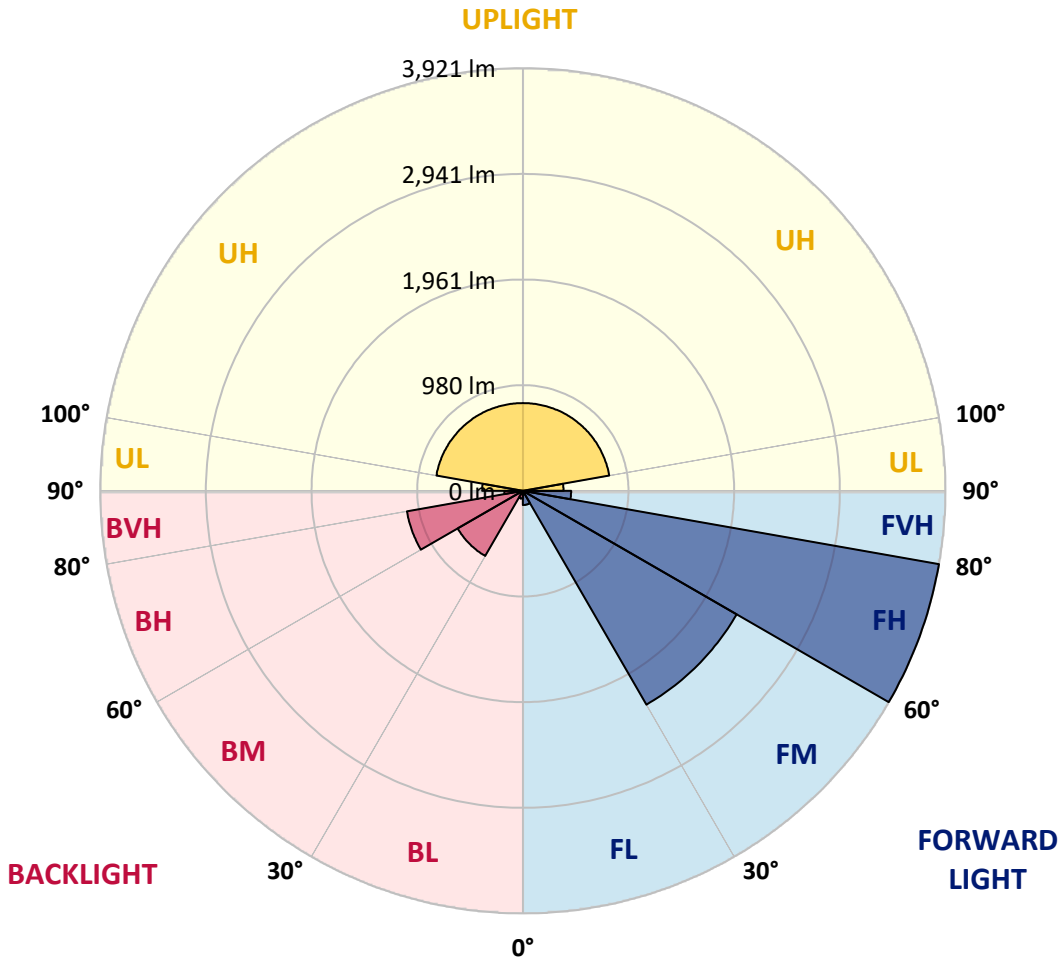
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	132.4	1.3			
FM	(30°-60°)	2291.4	22.9			
FH	(60°-80°)	3921.2	39.1			G2/5000
FVH	(80°-90°)	448.1	4.5			G3/500
BL	(0°-30°)	72.9	0.7	B0/110		
BM	(30°-60°)	697.8	7.0	B1/1000		
BH	(60°-80°)	1092.2	10.9	B3/2500		G3/2500
BVH	(80°-90°)	172.9	1.7			G2/225
UL	(90°-100°)	377.8	3.8		U3/500	
UH	(100°-180°)	814.4	8.1		U4/1000	

BUG Rating: B3-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	325.1	325.1	325.1	325.1	325.1	325.1	*325.1*	325.1	325.1	325.1	325.1
2.5°	194.1	195.5	217.2	234.2	255.2	249.1	*249.1*	295.3	325.8	370.6	366.5
5°	207.7	198.9	203.0	217.9	246.4	260.0	*245.0*	194.1	160.9	174.4	190.7
7.5°	227.4	225.4	220.6	206.3	195.5	224.7	*265.4*	236.2	178.5	150.0	143.9
10°	232.8	233.5	232.1	233.5	238.9	226.0	*203.0*	184.6	179.2	176.5	174.4
12.5°	281.7	281.0	283.7	280.3	267.4	251.8	*256.6*	243.0	216.5	198.2	193.5
15°	328.5	327.2	326.5	313.6	292.6	267.4	*255.2*	261.3	244.4	223.3	213.8
17.5°	347.5	347.5	334.0	315.6	302.7	285.1	*275.6*	268.8	255.9	242.3	230.8
20°	340.1	339.4	325.8	318.3	319.7	311.6	*303.4*	293.2	280.3	258.6	244.4
22.5°	336.0	336.0	331.2	329.2	340.7	338.0	*336.0*	323.1	306.1	274.2	255.9
25°	362.5	360.4	354.3	354.3	365.2	374.0	*377.4*	367.2	339.4	291.2	274.2
27.5°	388.3	387.6	379.4	381.5	388.3	405.9	*411.3*	406.6	368.6	305.5	290.5
30°	419.5	414.7	407.9	420.2	418.8	443.2	*450.7*	456.1	407.9	334.6	317.0
32.5°	452.7	450.0	444.6	460.2	465.6	488.0	*494.2*	521.3	461.6	386.9	368.6
35°	509.1	507.0	521.3	551.8	551.2	593.3	*577.0*	617.7	561.4	481.3	462.9
37.5°	762.9	751.4	735.1	705.9	703.9	762.3	*743.9*	775.8	696.4	583.8	563.4
40°	794.2	792.1	784.7	751.4	732.4	832.2	*844.4*	938.8	807.7	678.8	639.4
42.5°	775.8	778.6	878.3	899.4	860.7	983.6	*1003.9*	1169.5	933.3	823.4	751.4
45°	935.4	939.4	972.0	986.9	984.2	1293.1	*1343.3*	1546.3	1153.2	1026.3	893.3
47.5°	1071.1	1056.9	1115.9	1229.9	1308.0	1656.9	*1818.5*	2130.0	1549.7	1362.3	1115.9
50°	1471.6	1468.2	1610.7	1735.6	1813.0	2383.9	*2881.4*	3223.5	2271.2	1975.3	1557.1
52.5°	1743.1	1858.5	1994.9	2284.1	2354.0	3243.9	*3917.2*	4191.5	3138.7	2594.3	2125.9
55°	2018.7	2185.0	2337.7	2787.8	3019.9	4214.5	*4980.9*	5056.2	4122.2	3154.3	2682.5
57.5°	2531.2	2811.5	2909.9	3269.0	3608.4	5333.2	*6349.3*	6269.2	5136.3	3803.9	3304.3
60°	2994.8	3332.1	3303.6	3655.2	4091.7	6244.8	*7218.2*	7134.0	6064.2	4380.8	3782.2
62.5°	3150.2	3490.3	3451.6	3834.4	4392.4	6733.5	*7691.9*	7548.0	6671.7	4750.8	4046.9
65°	*3222.8*	*3584.0*	*3565.0*	*3922.0*	*4392.4*	*6804.1*	*7980.4*	*7783.6*	*6841.4*	*4893.3*	*4174.5*
67.5°	3159.0	3507.3	3519.5	3836.5	4133.8	6294.3	*7586.7*	7319.3	6416.5	4551.2	3946.4
70°	2761.3	3005.0	2974.4	3261.5	3290.7	5038.6	*6296.4*	6005.2	5213.0	3795.1	3265.6
72.5°	2281.4	2340.4	2315.3	2496.6	2530.5	3690.5	*4706.0*	4541.0	3892.8	2823.7	2495.2
75°	1819.1	1809.6	1861.2	1903.3	1868.0	2709.0	*3726.5*	3539.2	2880.1	2126.6	1920.3
77.5°	1258.5	1185.8	1321.6	1334.5	1278.8	1801.5	*2749.1*	2677.8	2064.2	1567.3	1415.3
80°	707.3	715.4	812.5	870.2	849.8	1146.5	*1912.8*	1866.0	1409.8	1095.6	973.4
82.5°	545.7	570.2	615.7	659.1	630.6	877.0	*1293.8*	1297.1	1031.1	800.3	731.0
85°	600.0	612.9	619.0	620.4	598.0	815.2	*1072.5*	1058.2	875.6	670.0	648.2
87.5°	585.1	598.7	600.7	601.4	581.7	776.5	*1015.5*	993.1	834.9	643.5	610.2
90°	501.6	524.7	527.4	545.1	522.0	693.7	*894.0*	871.6	752.8	580.4	549.1
92.5°	431.0	443.2	456.1	477.2	452.7	604.1	*800.3*	772.5	674.0	524.7	481.9
95°	394.4	401.2	412.0	420.2	391.7	513.2	*669.3*	640.1	547.1	422.2	384.2
97.5°	317.0	323.1	327.9	338.0	318.3	406.6	*519.3*	492.1	429.0	336.0	307.5
100°	270.8	274.9	280.3	287.1	270.8	340.7	*426.3*	414.1	357.0	283.7	265.4
102.5°	247.8	251.1	260.7	260.7	250.5	311.6	*380.8*	371.3	321.1	257.3	245.0
105°	238.9	239.6	247.8	244.4	237.6	290.5	*355.0*	342.8	300.7	244.4	230.1
107.5°	227.4	228.1	238.3	232.8	227.4	269.5	*321.7*	316.3	278.3	228.1	215.9
110°	215.9	217.9	230.8	226.0	222.6	253.2	*301.4*	291.2	266.1	220.6	210.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	207.0	208.4	220.6	217.2	214.5	242.3	*279.7*	279.7	260.0	220.6	207.0
115°	199.6	202.3	212.5	205.7	200.9	228.1	*257.9*	259.3	243.0	210.4	196.8
117.5°	186.7	192.8	198.2	200.9	195.5	218.6	*245.0*	243.7	234.9	203.0	193.5
120°	212.5	207.7	211.8	216.5	207.7	226.0	*248.4*	248.4	239.6	199.6	191.4
122.5°	222.0	215.2	219.2	214.5	213.8	237.6	*265.4*	267.4	249.1	205.7	185.3
125°	196.8	194.1	189.4	188.0	193.5	215.9	*241.0*	249.8	230.1	196.8	173.1
127.5°	168.3	164.9	158.8	162.2	172.4	194.8	*207.7*	212.5	204.3	182.6	164.9
130°	155.4	154.8	159.5	165.6	173.8	192.8	*196.8*	203.6	203.6	177.8	167.7
132.5°	141.9	142.5	157.5	178.5	184.6	188.7	*179.9*	192.8	198.9	181.2	169.7
135°	139.8	140.5	148.7	165.6	166.3	169.0	*169.7*	186.0	190.1	173.1	160.2
137.5°	152.7	152.7	146.6	150.0	157.5	177.8	*184.6*	197.5	194.1	163.6	144.6
140°	168.3	164.9	145.9	146.6	159.5	184.6	*193.5*	201.6	197.5	160.2	137.8
142.5°	139.1	140.5	143.9	156.8	171.7	228.7	*221.3*	241.6	233.5	169.7	134.4
145°	217.2	217.9	213.8	219.2	228.7	304.1	*281.0*	313.6	323.1	222.0	159.5
147.5°	237.6	240.3	232.8	228.1	255.2	278.3	*252.5*	279.7	298.0	232.8	171.1
150°	185.3	184.6	179.9	186.7	205.0	203.6	*190.1*	199.6	207.0	177.8	146.6
152.5°	131.7	129.6	126.9	127.6	149.3	143.9	*139.8*	148.0	148.0	136.4	117.4
155°	109.3	109.3	107.9	111.3	123.5	114.0	*110.6*	109.3	107.9	104.5	97.1
157.5°	92.3	94.4	92.3	96.4	104.5	95.7	*93.7*	91.6	92.3	92.3	90.3
160°	76.7	76.7	75.3	82.1	84.8	78.1	*74.7*	73.3	73.3	77.4	77.4
162.5°	64.5	64.5	65.2	67.9	69.9	65.2	*63.1*	63.1	65.2	71.3	71.3
165°	55.7	55.7	56.3	58.4	59.7	57.0	*55.7*	56.3	61.8	67.2	67.2
167.5°	50.9	50.9	50.9	51.6	52.3	50.9	*50.9*	53.6	58.4	61.8	61.8
170°	48.2	48.2	47.5	48.2	48.2	48.2	*50.9*	53.6	55.7	55.7	55.7
172.5°	48.9	48.9	48.2	48.9	48.9	48.2	*51.6*	55.0	53.6	52.9	52.9
175°	50.2	50.2	50.2	50.9	50.9	49.6	*48.9*	50.2	51.6	51.6	50.9
177.5°	50.2	50.2	49.6	50.2	49.6	48.2	*47.5*	46.8	46.8	46.2	46.2
180°	46.8	46.8	46.8	46.8	46.8	46.8	*46.8*	46.8	46.8	46.8	46.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	325.1	325.1	325.1	325.1	325.1	325.1	325.1	325.1	325.1	325.1
2.5°	331.9	286.4	252.5	279.0	337.4	366.5	337.4	256.6	180.6	158.2
5°	198.9	193.5	174.4	170.4	177.8	171.1	190.1	179.9	142.5	143.9
7.5°	148.7	179.9	173.8	124.2	116.1	108.6	114.7	131.0	135.1	126.3
10°	172.4	155.4	135.8	126.3	137.8	148.7	141.2	122.9	105.9	101.1
12.5°	190.1	188.7	190.7	171.1	140.5	129.6	125.6	135.1	164.3	171.1
15°	204.3	188.7	174.4	170.4	150.0	139.1	133.7	131.0	125.6	121.5
17.5°	218.6	192.8	177.2	161.5	151.4	141.2	129.6	123.5	122.9	123.5
20°	228.1	204.3	186.0	168.3	155.4	141.9	130.3	124.9	124.9	124.9
22.5°	239.6	216.5	196.8	174.4	159.5	144.6	135.1	129.6	129.0	129.0
25°	258.6	232.8	209.7	185.3	169.0	155.4	142.5	135.8	133.7	133.0
27.5°	280.3	251.8	224.0	198.9	181.9	167.0	150.0	139.8	137.1	136.4
30°	308.2	275.6	240.3	213.8	192.8	178.5	158.2	145.9	140.5	139.8
32.5°	353.6	310.9	264.7	235.5	210.4	191.4	169.0	154.1	145.3	143.2
35°	441.2	388.9	319.7	277.6	237.6	207.7	178.5	158.8	150.0	148.7
37.5°	539.0	459.5	392.3	343.5	294.6	244.4	193.5	166.3	155.4	153.4
40°	581.0	505.7	434.4	357.7	346.9	307.5	237.6	184.6	162.9	159.5
42.5°	673.4	566.1	469.7	316.3	341.4	339.4	293.2	226.0	183.3	175.1
45°	792.8	644.2	522.7	338.0	344.1	331.9	300.7	261.3	222.6	213.8
47.5°	987.6	720.2	539.6	380.1	386.9	357.7	315.0	275.6	247.8	244.4
50°	1410.5	943.5	602.1	460.2	481.9	414.7	361.8	327.9	294.6	288.5
52.5°	1917.6	1118.0	666.6	574.2	652.3	555.9	475.8	413.4	411.3	403.2
55°	2451.8	1185.2	752.1	699.8	821.3	737.8	659.8	602.8	631.9	634.7
57.5°	3051.8	1257.1	875.6	864.1	1026.3	893.3	827.4	843.0	1050.1	1130.8
60°	3451.6	1316.2	982.2	999.8	1213.7	1084.0	1034.5	1069.1	1420.7	1568.0
62.5°	3629.4	1286.3	1034.5	1065.0	1294.4	1200.1	1191.9	1210.3	1508.2	1646.0
65°	*3653.9*	*1242.2*	*1063.0*	*1089.4*	*1308.7*	*1212.3*	*1177.7*	*1151.9*	*1350.1*	*1430.9*
67.5°	3353.9	1148.5	1040.6	1068.4	1244.2	1128.8	1042.6	984.2	1098.9	1107.1
70°	2729.4	1025.6	964.5	974.7	1063.0	944.9	863.4	813.2	839.7	828.8
72.5°	2116.4	904.1	859.3	835.6	862.1	760.9	664.5	638.7	663.8	652.3
75°	1608.0	807.7	758.2	678.1	721.5	585.8	478.5	455.5	466.3	450.7
77.5°	1182.4	651.0	593.3	501.6	561.4	424.9	323.1	299.3	303.4	288.5
80°	862.7	481.3	433.7	359.8	404.6	302.1	233.5	229.4	228.7	219.2
82.5°	666.6	382.2	346.9	309.5	317.0	266.8	221.3	214.5	214.5	200.2
85°	618.4	369.9	334.0	307.5	309.5	258.6	210.4	206.3	208.4	193.5
87.5°	577.6	361.8	332.6	300.7	285.1	234.2	189.4	194.1	195.5	182.6
90°	495.5	321.7	295.3	264.7	246.4	198.9	169.7	178.5	179.9	168.3
92.5°	434.4	276.3	253.9	230.1	222.0	186.7	162.9	169.7	169.7	159.5
95°	346.2	226.0	215.9	204.3	202.3	174.4	152.0	155.4	154.1	145.3
97.5°	281.7	196.2	187.3	176.5	169.7	149.3	133.7	137.1	137.8	131.7
100°	247.8	181.2	169.0	156.8	150.0	134.4	122.2	128.3	132.4	126.9
102.5°	231.5	173.1	159.5	146.6	141.2	126.9	115.4	120.8	126.3	121.5
105°	219.9	167.0	152.7	141.2	134.4	120.1	108.6	110.0	116.8	114.0
107.5°	205.0	167.0	148.7	137.1	129.0	116.1	102.5	101.1	105.2	104.5
110°	199.6	167.0	145.9	134.4	125.6	114.0	101.8	96.4	98.4	98.4

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

Scaled Data Report

REPORT NUMBER: P981463
CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	194.8	165.6	143.2	129.6	122.2	112.7	100.5	92.3	94.4	95.7
115°	183.9	152.7	135.1	120.8	113.4	103.2	95.0	88.9	89.6	91.0
117.5°	177.8	141.2	131.0	118.1	112.7	106.6	99.1	87.6	87.6	88.9
120°	177.8	139.1	134.4	129.6	126.9	116.8	104.5	87.6	85.5	85.5
122.5°	175.1	154.8	146.6	135.8	128.3	114.7	99.8	85.5	84.2	84.2
125°	160.9	148.0	135.1	122.2	113.4	102.5	93.7	86.2	83.5	83.5
127.5°	153.4	133.0	120.8	110.6	104.5	99.1	93.7	86.2	82.8	82.1
130°	155.4	134.4	118.8	110.6	105.9	100.5	94.4	84.8	79.4	78.7
132.5°	156.8	129.6	114.7	107.9	104.5	100.5	92.3	80.1	74.0	74.0
135°	141.9	116.8	110.0	105.2	103.2	99.8	87.6	76.0	71.3	70.6
137.5°	129.0	113.4	108.6	103.9	100.5	95.7	86.2	74.7	68.6	67.9
140°	123.5	110.6	103.9	95.0	91.0	81.5	74.7	67.9	65.8	65.2
142.5°	117.4	103.9	95.7	88.2	86.2	82.8	78.7	67.9	61.1	61.1
145°	140.5	124.9	115.4	107.9	98.4	91.6	78.7	65.2	56.3	55.0
147.5°	147.3	133.0	123.5	113.4	95.7	80.8	66.5	57.0	53.6	52.3
150°	129.0	116.8	106.6	95.7	80.1	69.9	60.4	54.3	52.9	52.9
152.5°	102.5	95.7	84.8	77.4	67.2	61.1	55.7	52.3	50.9	50.9
155°	84.8	79.4	73.3	67.2	61.8	57.7	54.3	51.6	50.2	50.2
157.5°	82.1	74.0	68.6	63.1	59.7	55.7	52.9	50.2	49.6	48.9
160°	74.7	65.2	60.4	57.0	56.3	55.0	52.9	50.9	50.2	49.6
162.5°	69.2	59.7	56.3	54.3	56.3	57.7	56.3	53.6	51.6	50.9
165°	65.2	56.3	53.6	53.6	57.7	59.7	56.3	53.6	53.6	52.9
167.5°	60.4	57.7	54.3	53.6	57.0	61.1	61.8	57.0	55.0	54.3
170°	56.3	57.0	57.0	55.0	55.7	59.1	60.4	59.1	56.3	55.7
172.5°	53.6	55.0	57.7	56.3	56.3	57.7	59.1	57.7	55.7	55.0
175°	50.9	51.6	50.2	50.9	52.9	55.0	54.3	53.6	52.9	52.9
177.5°	46.2	46.2	46.8	46.8	47.5	49.6	50.2	50.2	51.6	51.6
180°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8

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: SP1-2501-332-3

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

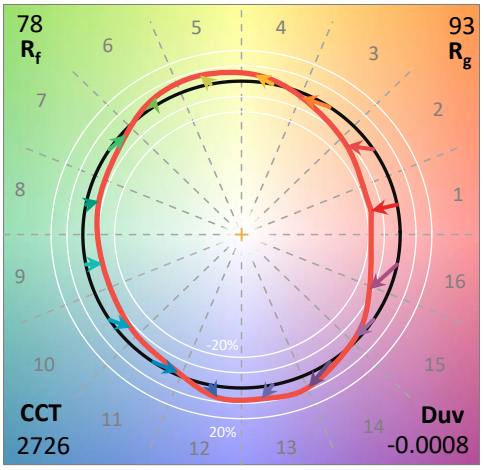
Test Information

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

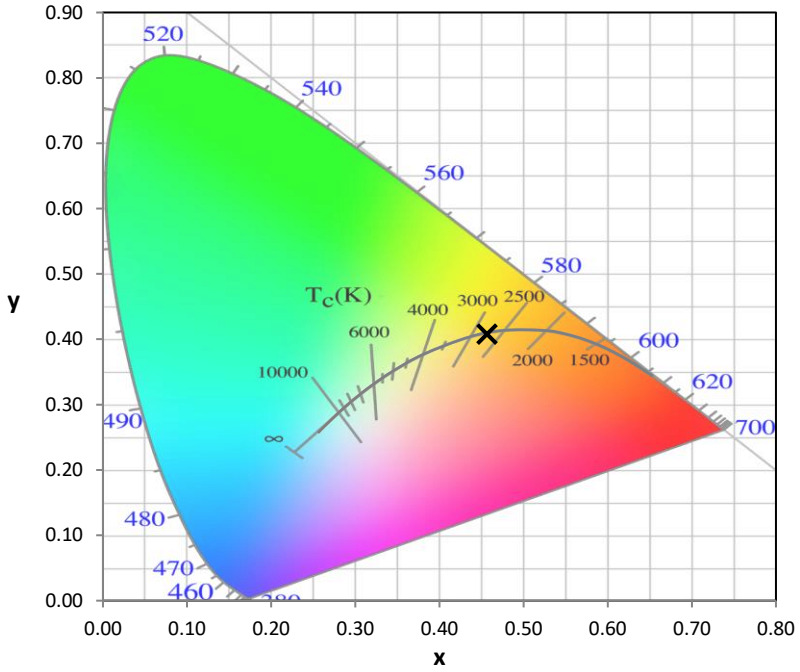
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

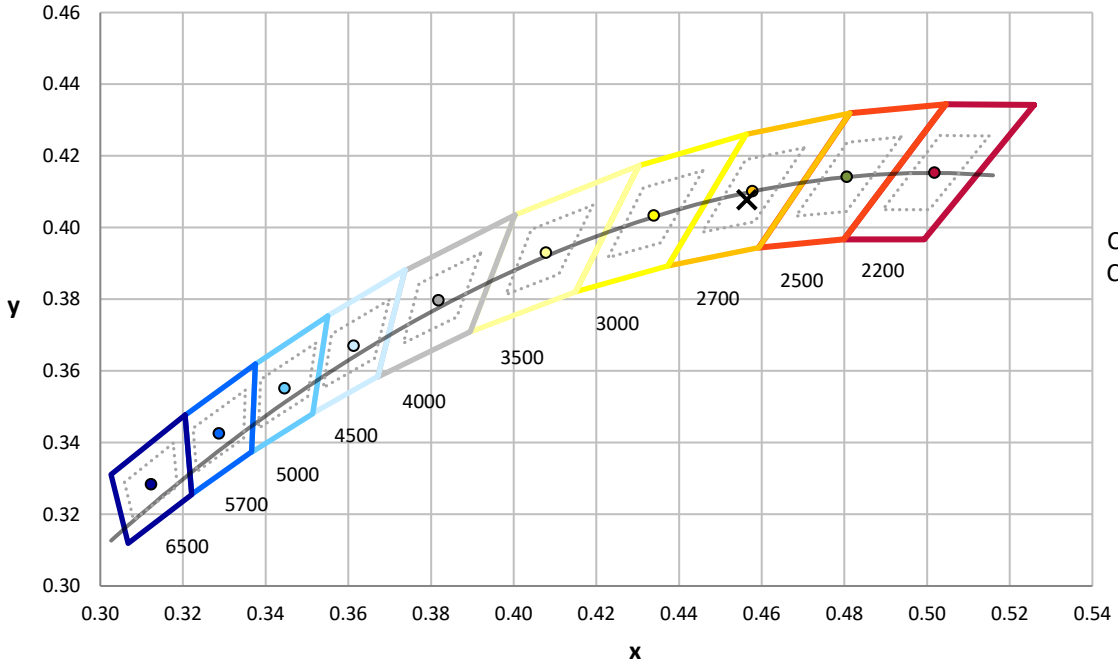
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

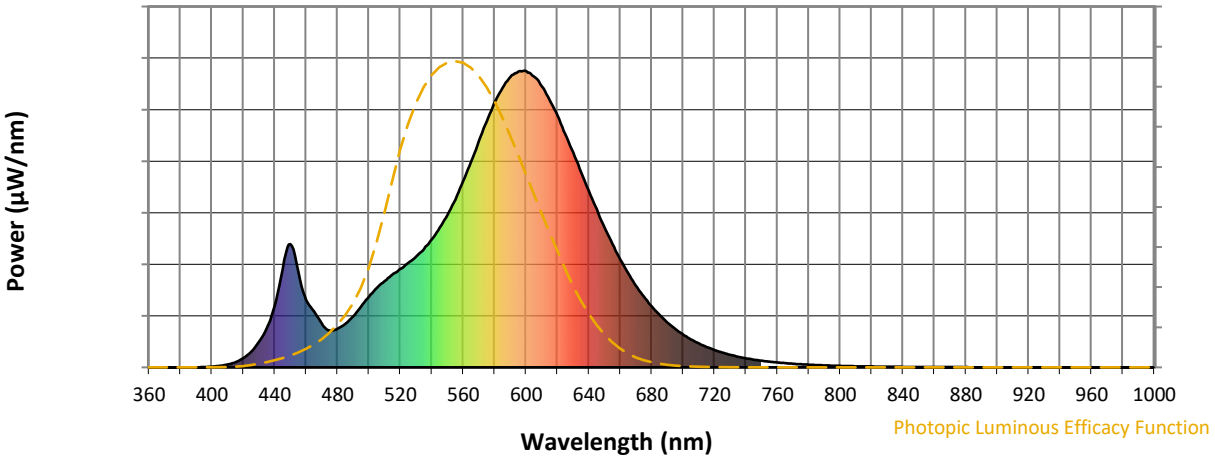


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

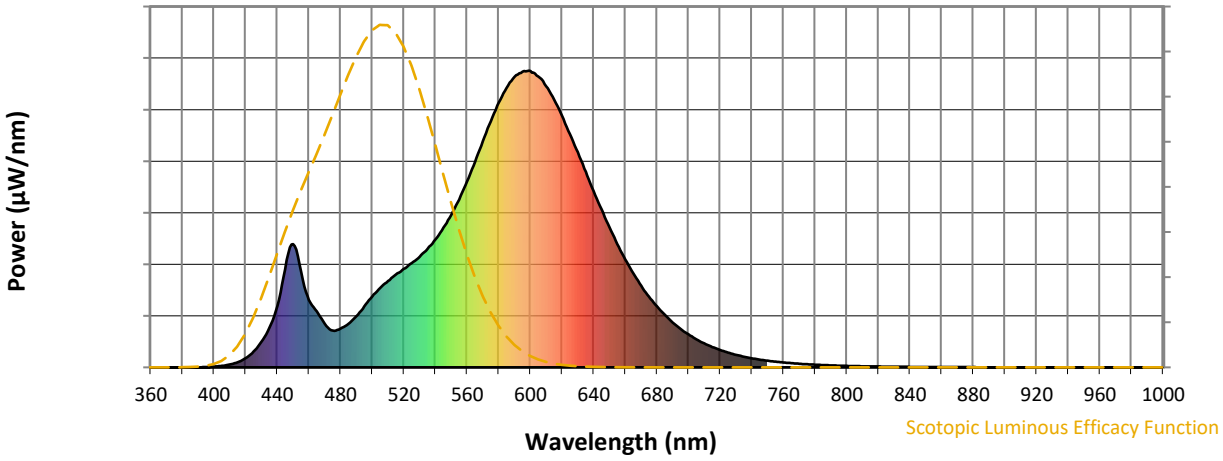


Photopic Lumens: NR

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

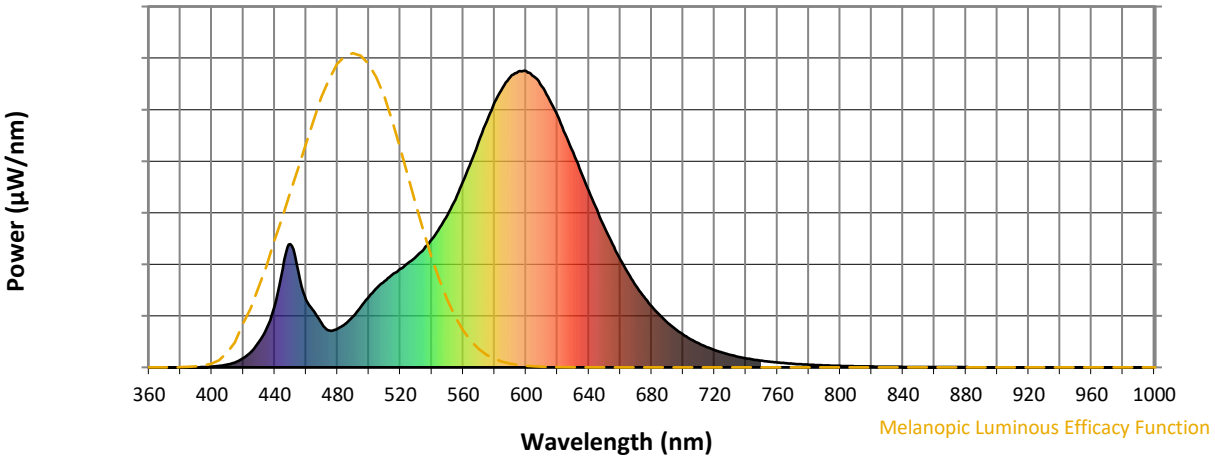


Scotopic Lumens: NR **S/P: 1.16**

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			

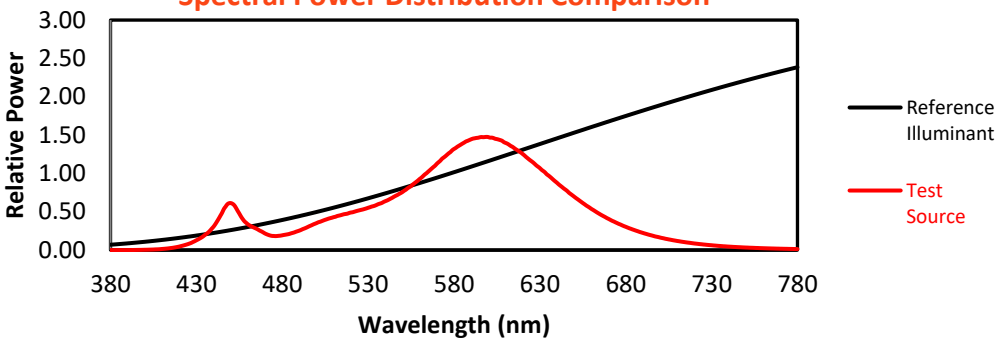
REPORT NUMBER: SP1-2501-332-3

TM-30-18

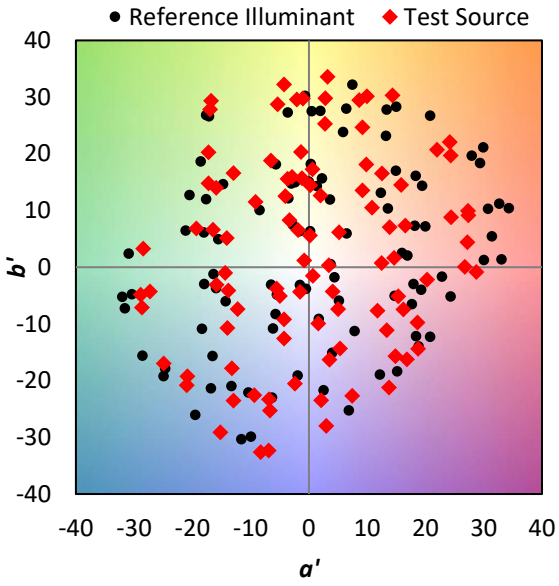
Summary

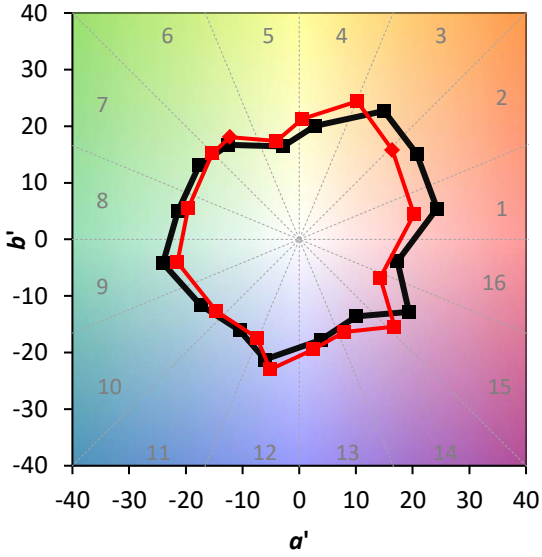
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

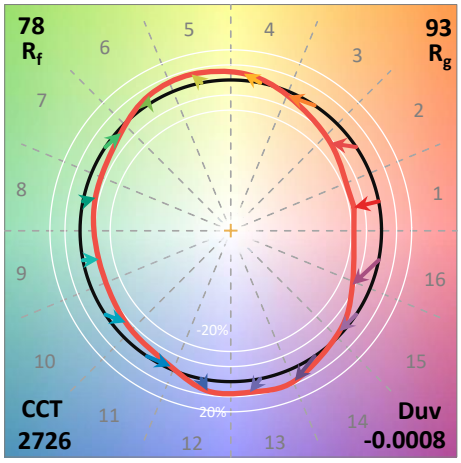
Spectral Power Distribution Comparison

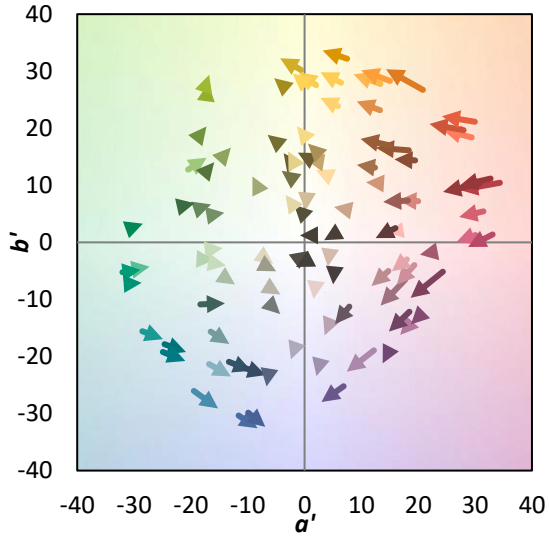


Color Vector Graphics







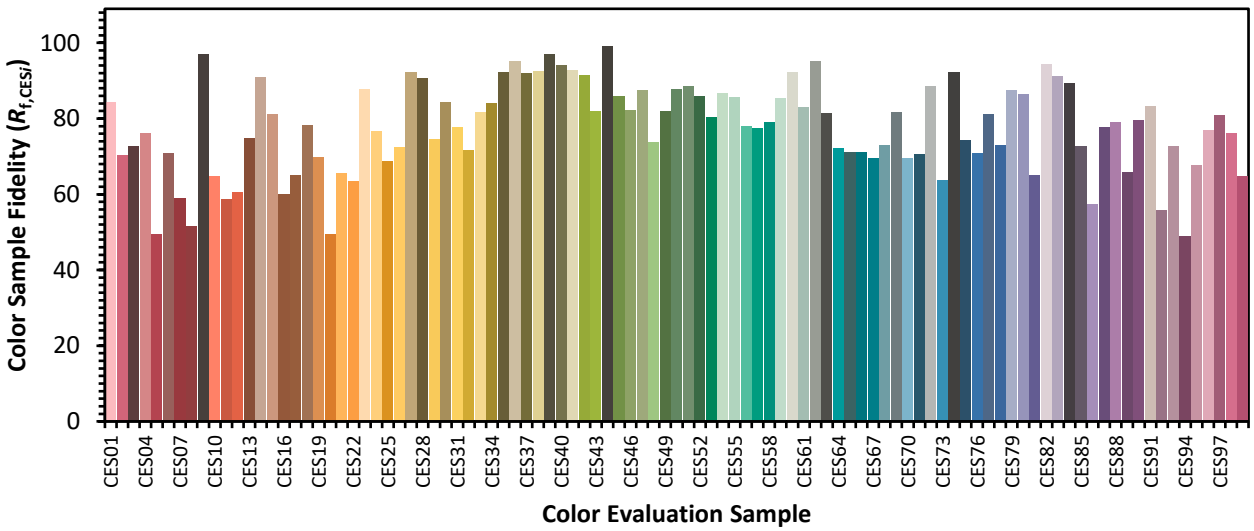


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

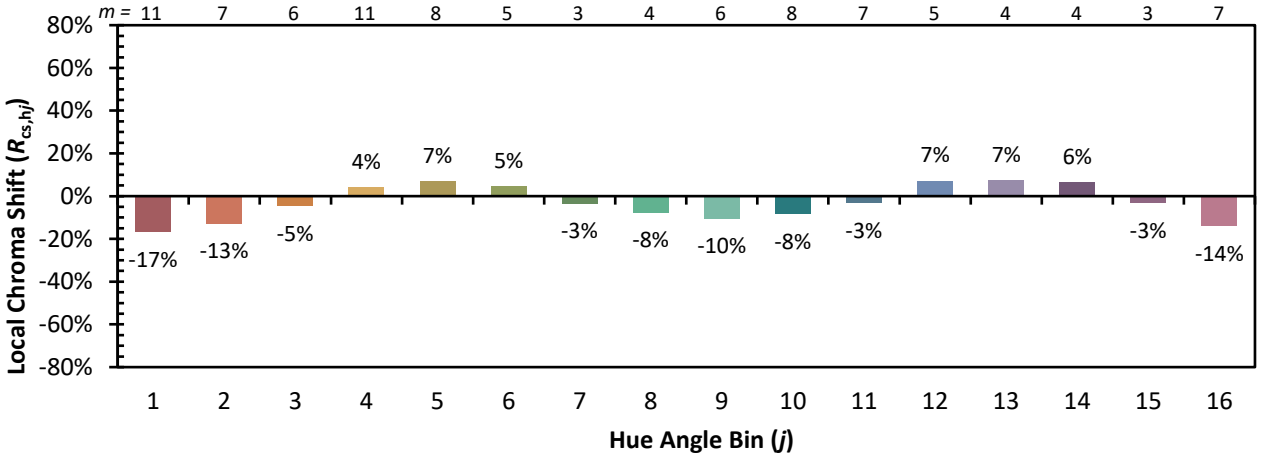
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57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

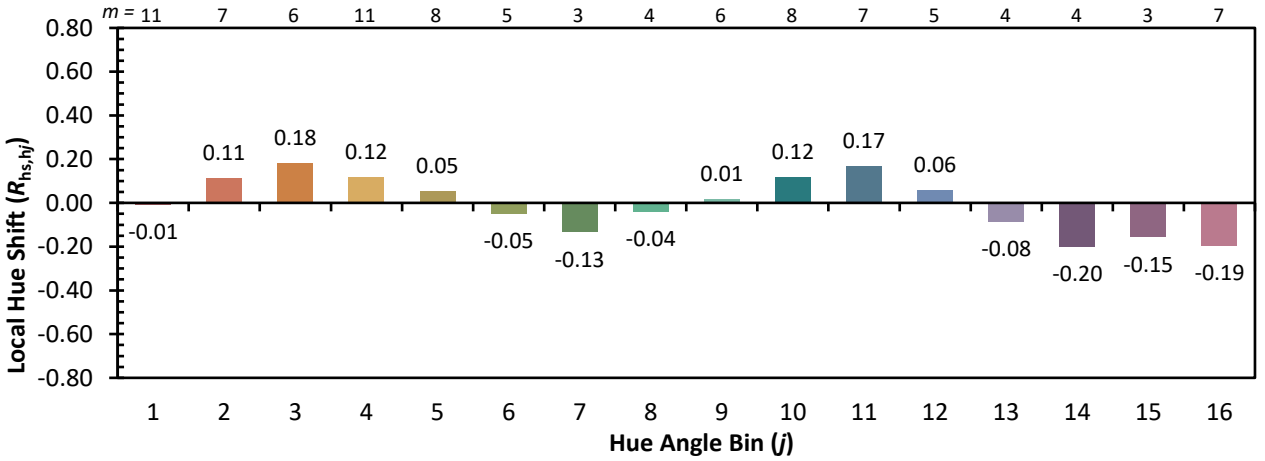


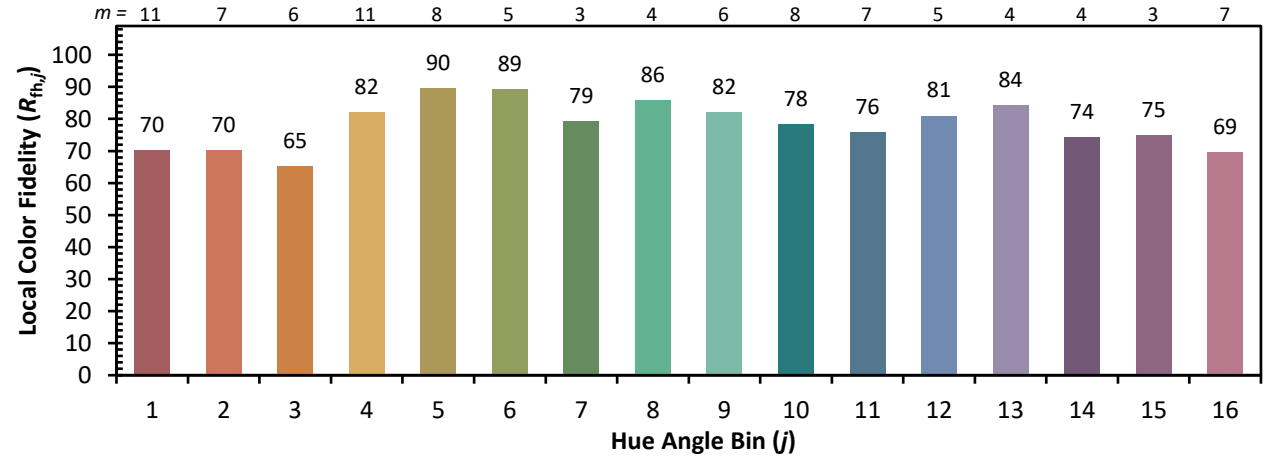
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Color Rendition by Hue-Angle Bin



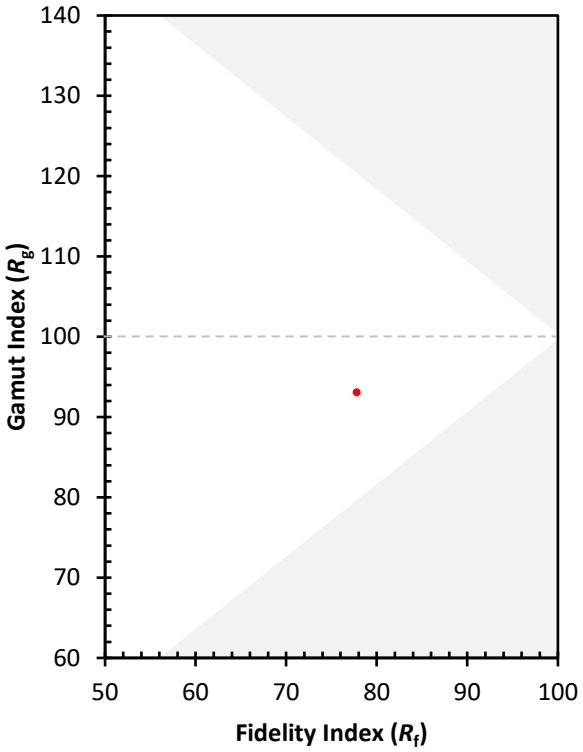


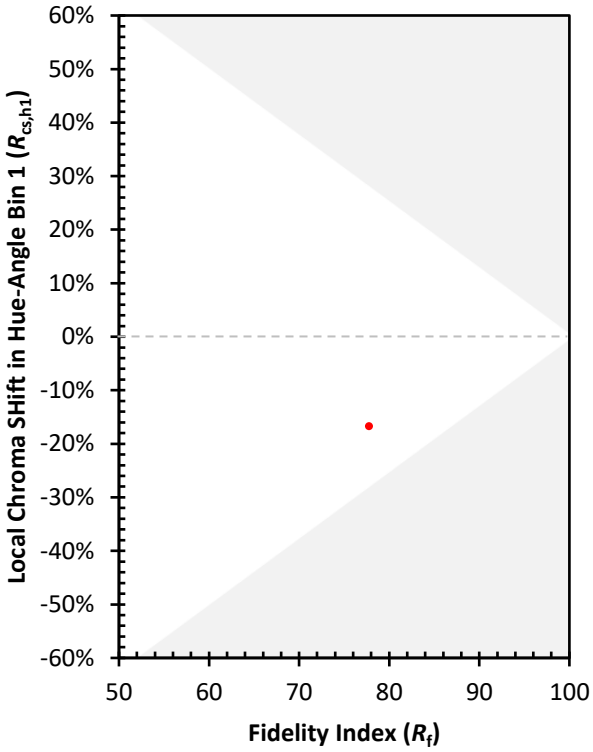


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Measure Comparisons





(END OF REPORT)