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: P1046230

Luminaire Tested: **FFX-CLB-70-722-U-FR-T4-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046230
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8293.3 lumens
Efficiency:	N/A
Efficacy:	116.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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

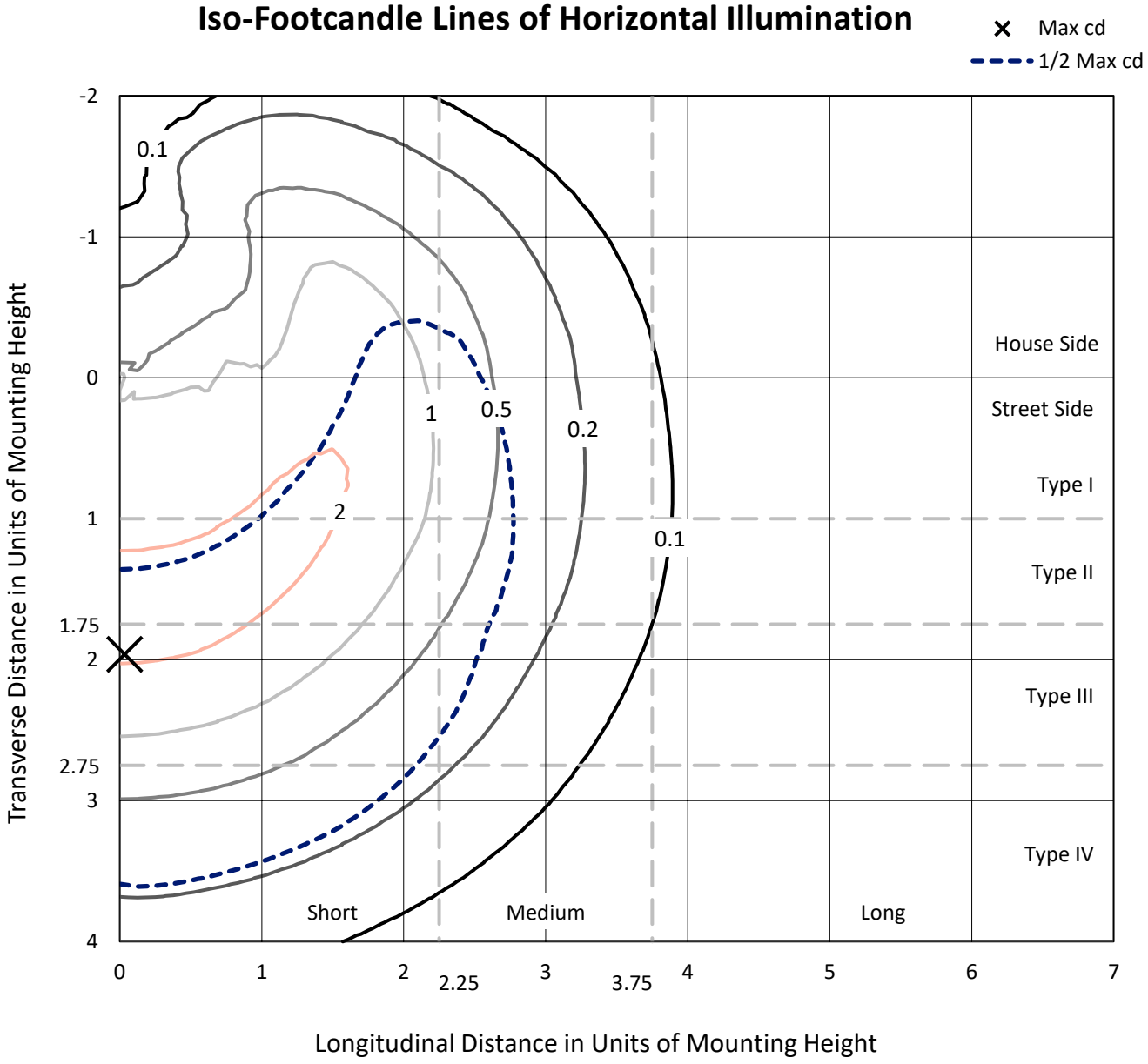


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Iso-Footcandle Lines of Horizontal Illumination



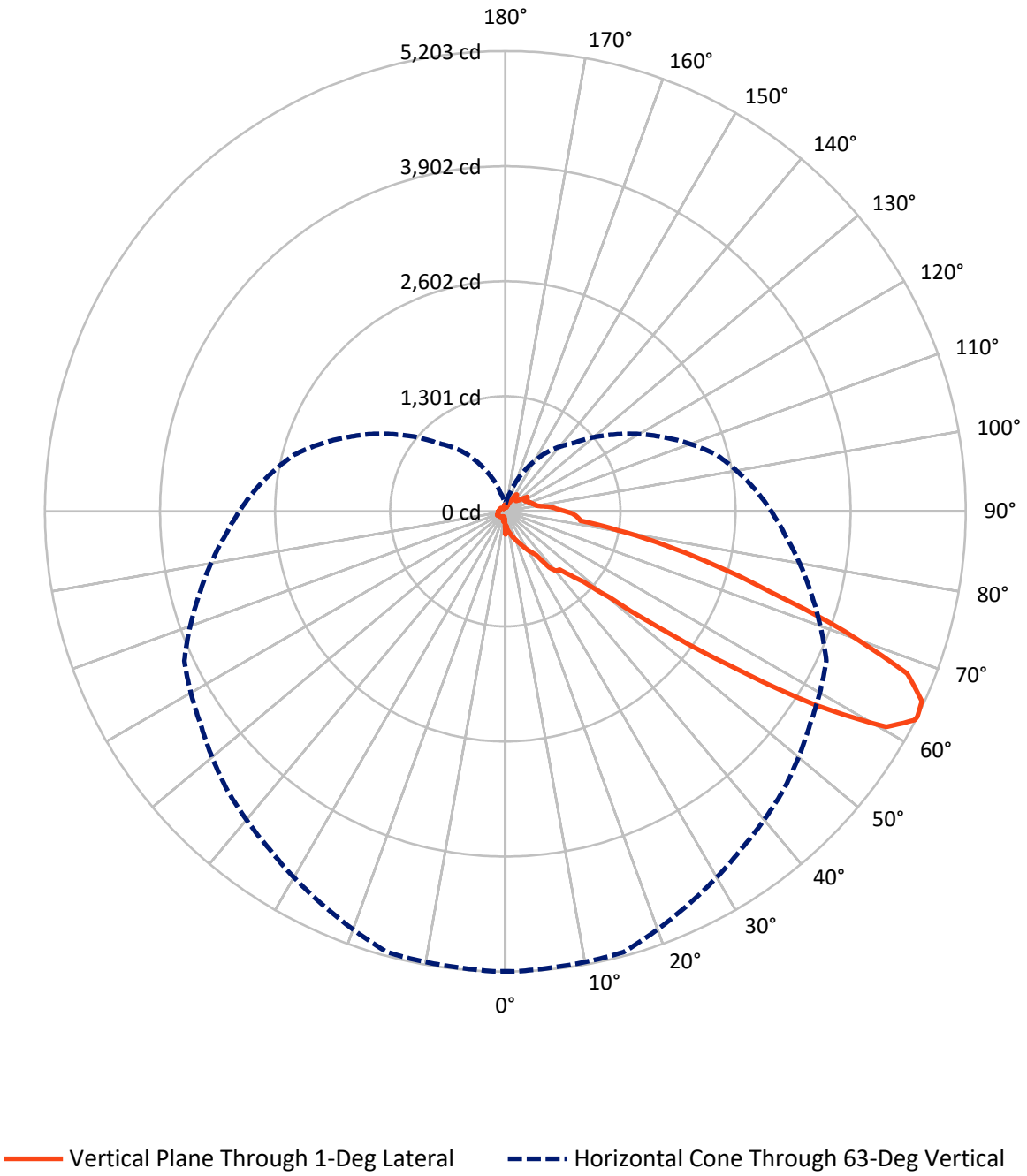
Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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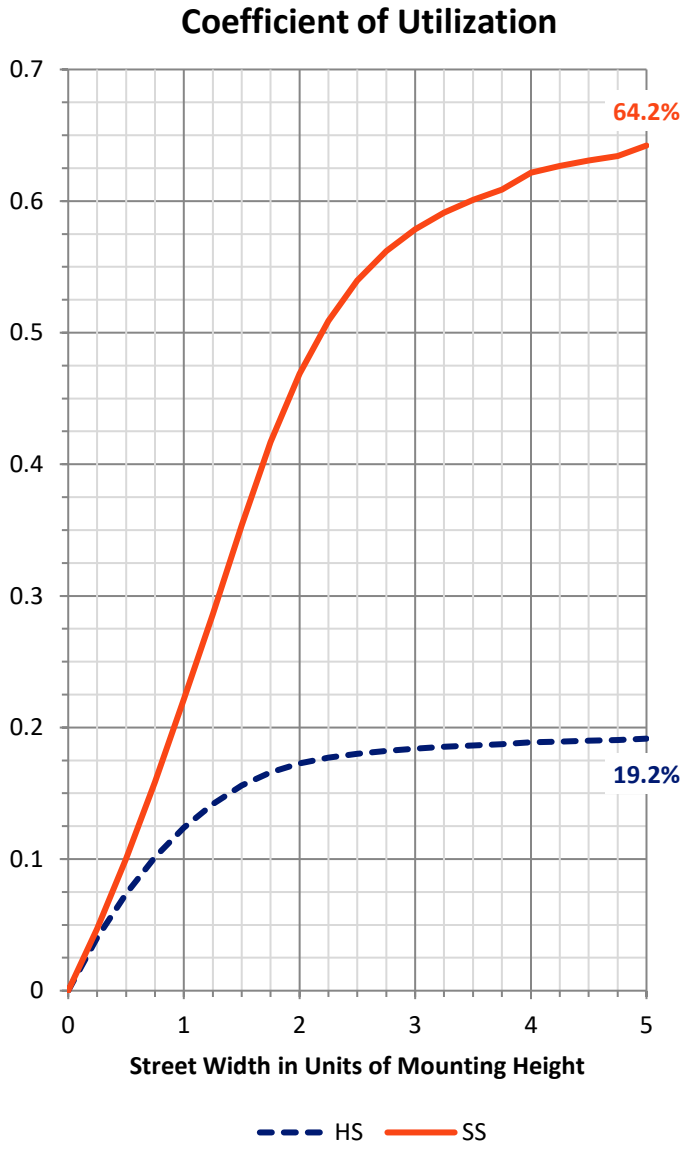
REPORT NUMBER: P1046230
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1642.0	328.9	1971.0
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	5562.9	759.4	6322.3
	% Fixture	67.1	9.2	76.2
Total	Lumens	7204.9	1088.3	8293.3
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	0.2
10°-20°	54.6	0.7
20°-30°	120.3	1.5
30°-40°	246.3	3.0
40°-50°	497.3	6.0
50°-60°	1605.3	19.4
60°-70°	2644.7	31.9
70°-80°	1457.8	17.6
80°-90°	563.2	6.8
90°-100°	337.7	4.1
100°-110°	215.1	2.6
110°-120°	164.5	2.0
120°-130°	140.4	1.7
130°-140°	94.1	1.1
140°-150°	80.2	1.0
150°-160°	36.5	0.4
160°-170°	14.8	0.2
170°-180°	5.0	0.1
0°-90°	7204.9	86.9
0°-180°	8293.3	100.0



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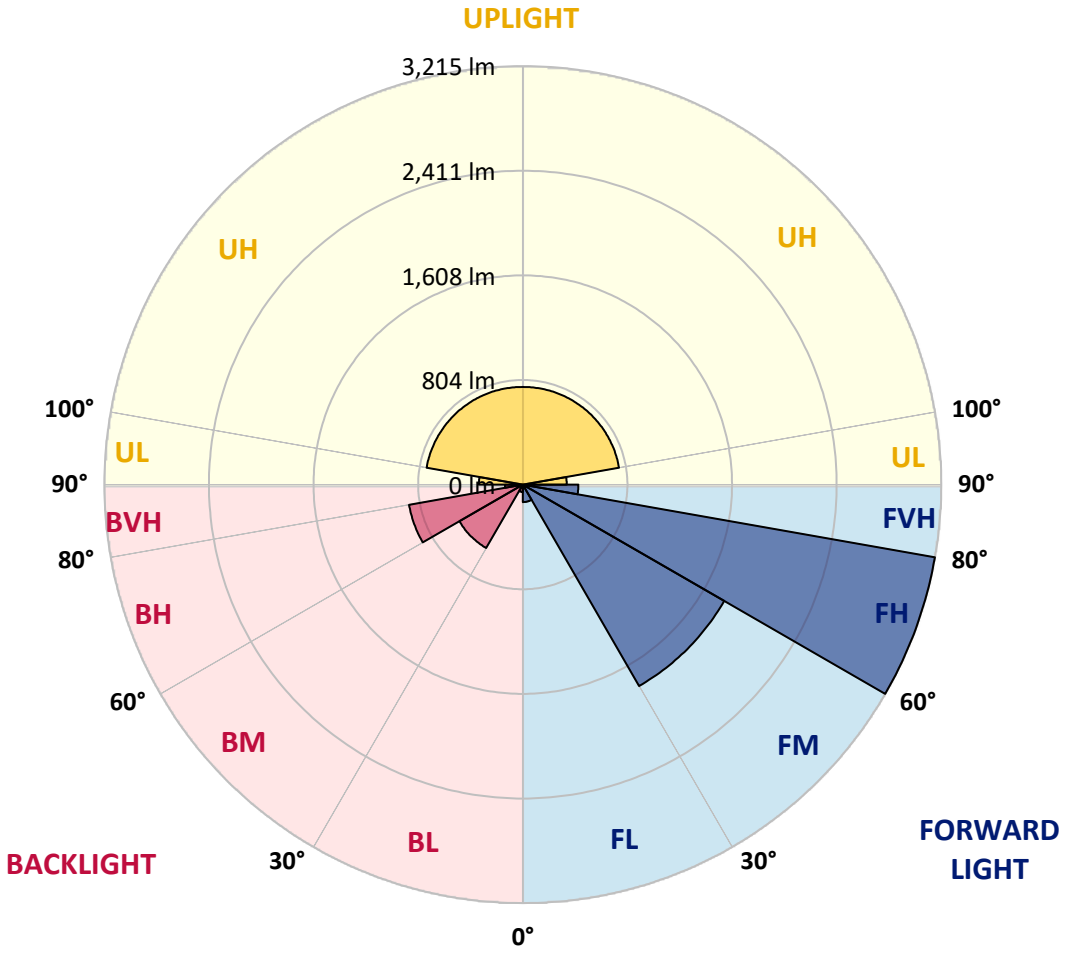
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	134.3	1.6			
FM	(30°-60°)	1786.7	21.5			
FH	(60°-80°)	3215.1	38.8			G2/5000
FVH	(80°-90°)	426.8	5.1			G3/500
BL	(0°-30°)	56.0	0.7	B0/110		
BM	(30°-60°)	562.1	6.8	B1/1000		
BH	(60°-80°)	887.4	10.7	B2/1000		G2/1000
BVH	(80°-90°)	136.4	1.6			G2/225
UL	(90°-100°)	337.7	4.1		U3/500	
UH	(100°-180°)	750.6	9.1		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5
2.5°	162.2	160.5	168.1	191.7	217.7	225.9	208.8	202.4	221.2	264.9	269.6
5°	187.0	190.0	188.2	191.1	193.5	211.8	228.3	211.2	171.1	139.8	142.2
7.5°	220.6	220.0	220.0	217.7	205.9	187.0	181.7	195.3	195.9	164.0	139.2
10°	235.4	234.8	234.8	232.4	230.1	231.8	225.9	201.2	181.1	168.1	159.9
12.5°	266.7	265.5	264.9	263.7	259.6	254.9	250.7	251.9	234.8	202.4	181.1
15°	292.6	291.4	292.6	293.8	290.8	282.6	270.8	254.3	238.9	225.4	206.5
17.5°	320.9	320.3	319.7	318.6	314.4	303.2	289.1	273.7	256.6	237.7	220.0
20°	348.1	346.9	347.5	348.1	346.3	332.7	318.6	299.7	281.4	263.1	242.5
22.5°	380.5	380.5	378.7	378.7	377.0	368.7	351.0	329.2	310.3	287.3	264.3
25°	422.4	420.6	420.6	418.9	411.8	402.9	390.5	365.8	343.3	321.5	290.8
27.5°	463.7	461.9	461.9	461.3	452.5	440.7	420.0	396.4	375.2	347.5	310.3
30°	510.9	509.7	510.3	503.8	496.7	480.2	454.3	427.1	399.4	366.9	331.0
32.5°	558.7	555.1	554.5	547.5	538.0	518.0	489.1	463.1	434.2	396.4	366.4
35°	614.7	607.1	615.3	613.5	612.4	591.1	558.1	528.0	493.8	459.6	427.1
37.5°	800.0	803.5	801.7	778.1	759.3	730.3	715.6	680.2	633.0	591.1	529.8
40°	887.3	886.1	883.1	857.2	840.1	810.0	786.4	759.8	732.1	666.6	590.5
42.5°	906.2	899.7	904.4	928.6	951.0	930.9	856.0	770.5	731.5	685.5	646.0
45°	1044.2	1027.7	1034.8	1041.2	1019.4	990.5	958.1	902.6	837.1	771.1	698.5
47.5°	1191.7	1182.8	1182.2	1179.9	1182.2	1154.5	1111.5	1060.1	967.5	896.1	815.3
50°	1551.0	1539.2	1542.7	1545.7	1533.3	1504.9	1458.3	1424.7	1313.8	1176.9	1071.9
52.5°	2209.9	2202.8	2186.3	2187.5	2076.0	2070.1	2007.0	1976.9	1813.5	1657.2	1445.4
55°	3023.5	3069.5	3018.7	3008.7	2962.7	2921.4	2763.3	2632.3	2398.1	2173.4	1925.0
57.5°	4125.5	4133.1	4068.8	4070.6	3907.2	3803.4	3657.6	3457.1	3108.4	2783.9	2505.5
60°	4928.4	4947.9	4917.8	4855.2	4539.0	4353.2	4192.7	4034.6	3768.6	3286.6	2899.0
62.5°	5189.7	5195.6	5176.8	5143.7	4864.7	4627.5	4421.0	4191.5	3987.4	3553.2	3163.9
63°	5199.2	5203.3	5188.5	5160.2	4901.2	4655.2	4448.8	4203.3	4003.4	3576.8	3179.8
65°	5173.8	5175.6	5169.1	5131.3	4924.3	4664.1	4437.0	4195.1	4011.6	3586.3	3179.8
67.5°	4945.5	4900.7	4919.5	4855.8	4683.6	4424.6	4207.5	3960.9	3795.7	3384.5	2995.1
70°	4068.8	4071.8	4068.8	4034.0	3985.1	3780.4	3526.7	3304.9	3096.0	2773.3	2467.7
72.5°	3147.9	3160.3	3133.2	3153.2	3113.7	2944.4	2780.4	2555.6	2408.7	2135.0	1865.4
75°	2438.2	2463.6	2471.9	2414.6	2380.4	2344.4	2254.8	2093.1	1946.2	1734.4	1499.0
77.5°	1842.4	1847.1	1854.2	1815.3	1770.4	1784.6	1771.6	1694.9	1571.6	1415.9	1228.9
80°	1273.1	1286.7	1309.7	1287.3	1292.6	1284.3	1282.5	1221.2	1132.1	1034.2	933.9
82.5°	855.4	854.8	860.7	896.7	929.8	928.6	876.1	789.9	744.5	716.2	659.6
85°	818.8	818.8	827.1	801.1	784.6	768.1	764.6	735.1	700.3	636.5	558.1
87.5°	763.4	761.6	764.0	741.6	719.7	714.4	709.1	683.7	668.4	613.0	541.0
90°	653.1	657.8	657.8	656.0	642.4	637.1	615.9	594.7	585.2	535.1	478.4
92.5°	576.4	576.4	582.9	571.7	556.9	565.2	528.6	500.9	487.9	454.3	409.4
95°	520.9	519.1	527.4	511.5	500.9	485.5	470.2	441.3	431.8	402.9	357.5
97.5°	415.9	414.1	418.9	411.2	394.7	387.6	371.1	348.1	339.2	312.1	284.4
100°	358.1	357.5	359.3	355.1	345.7	336.9	322.7	304.4	296.2	273.7	249.0
102.5°	339.8	338.0	338.6	339.2	325.6	317.4	303.8	289.7	281.4	263.1	236.0
105°	323.3	322.1	320.9	320.9	305.6	297.3	288.5	279.0	272.0	251.9	225.9
107.5°	308.0	306.2	302.1	301.5	291.4	282.6	272.0	263.7	256.6	238.3	213.6

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	290.8	*290.3*	287.9	288.5	282.0	268.4	259.6	249.5	240.7	224.8	202.9
112.5°	282.0	*282.0*	280.2	283.2	258.4	244.8	235.4	226.5	220.6	205.3	188.8
115°	272.6	*267.8*	266.1	272.0	243.6	224.8	215.3	205.9	200.0	184.7	171.1
117.5°	252.5	*251.3*	251.9	256.6	248.4	227.7	212.4	200.6	194.7	183.5	171.1
120°	287.9	*286.7*	279.6	278.5	264.3	247.8	237.7	231.3	222.4	204.1	180.5
122.5°	300.9	*298.5*	287.3	290.8	272.0	263.7	259.6	257.2	249.0	224.8	188.8
125°	261.9	*258.4*	255.4	256.6	246.0	235.4	231.3	227.7	219.5	205.9	179.9
127.5°	210.0	*211.8*	209.4	202.9	201.2	185.2	179.9	175.8	168.1	156.9	152.8
130°	197.0	*195.9*	195.3	194.1	192.9	181.1	172.9	162.8	156.3	146.9	135.7
132.5°	175.2	*176.4*	178.2	188.2	197.6	187.6	166.4	151.0	146.9	148.7	143.9
135°	166.4	*167.0*	167.0	174.6	182.9	172.9	156.9	142.2	140.4	146.9	141.0
137.5°	170.5	*173.4*	172.9	171.1	166.4	159.3	155.7	147.5	142.8	138.6	128.6
140°	179.9	*183.5*	181.7	171.7	168.1	164.6	167.0	164.0	152.2	138.0	123.3
142.5°	178.8	*181.7*	180.5	179.3	185.8	177.6	166.4	155.2	145.7	138.0	128.6
145°	231.8	*230.7*	225.9	225.9	218.3	205.9	198.2	186.4	175.2	165.2	149.8
147.5°	214.1	*217.1*	218.3	213.0	209.4	201.2	200.0	193.5	190.0	181.1	165.2
150°	169.9	*172.3*	168.7	164.6	162.8	163.4	160.5	155.7	152.2	145.7	138.6
152.5°	117.4	*118.6*	117.4	113.9	112.7	110.9	111.5	108.0	105.6	101.5	95.0
155°	106.8	*107.4*	108.0	102.1	100.9	101.5	102.1	99.7	95.0	91.4	83.8
157.5°	83.8	*82.6*	82.6	81.4	82.0	80.2	80.2	79.6	77.9	75.5	73.2
160°	66.7	*67.3*	67.3	67.3	68.4	67.3	67.3	65.5	65.5	64.3	63.1
162.5°	56.6	*56.6*	56.6	56.6	56.0	56.0	57.2	56.6	56.6	57.2	58.4
165°	47.8	*48.4*	48.4	48.4	48.4	48.4	49.6	49.6	50.7	53.1	56.0
167.5°	44.8	*44.2*	44.2	44.8	44.8	46.0	46.0	48.4	52.5	56.6	56.6
170°	42.5	*42.5*	42.5	43.1	43.1	43.7	45.4	49.6	54.3	56.0	53.7
172.5°	44.2	*43.7*	43.7	44.2	44.2	46.0	48.4	51.9	53.7	53.7	51.3
175°	45.4	*44.8*	44.8	45.4	45.4	46.6	49.0	51.3	52.5	53.1	53.1
177.5°	44.2	*44.2*	44.2	44.2	44.2	44.8	44.8	46.6	47.8	49.0	50.1
180°	42.5	*42.5*	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5
2.5°	269.6	246.0	211.2	168.7	196.5	230.7	225.9	199.4	159.3	119.8	119.8
5°	149.3	158.1	167.0	146.3	131.0	129.8	126.2	113.3	111.5	92.0	86.7
7.5°	130.4	122.1	120.3	142.2	140.4	92.6	73.2	64.9	68.4	92.6	95.6
10°	156.3	152.8	141.6	118.0	98.5	89.7	89.1	90.3	82.6	66.7	62.5
12.5°	176.4	170.5	160.5	153.4	131.0	104.4	89.7	83.2	87.9	111.5	116.8
15°	195.9	187.6	170.5	151.0	128.6	109.1	93.8	80.2	80.2	76.7	74.9
17.5°	211.2	200.6	179.9	158.7	133.3	109.1	89.1	75.5	69.0	67.8	67.8
20°	230.7	220.6	198.2	172.3	140.4	110.3	88.5	75.5	67.8	64.9	64.3
22.5°	254.9	241.9	213.0	182.3	144.5	111.5	89.7	76.1	68.4	64.3	63.1
25°	277.3	262.5	228.3	196.5	154.0	114.4	90.9	77.9	69.6	64.9	64.3
27.5°	295.6	279.6	247.8	211.2	164.0	121.5	96.8	81.4	71.4	66.7	65.5
30°	316.2	301.5	267.8	226.5	173.4	130.4	105.0	87.9	76.7	70.2	69.6
32.5°	346.9	328.6	289.7	242.5	184.7	139.8	113.3	93.8	80.2	76.7	76.7
35°	402.3	383.5	332.1	268.4	195.3	149.3	121.5	100.3	85.5	77.3	76.7
37.5°	506.2	480.2	415.9	327.4	213.6	156.9	128.6	105.6	88.5	76.7	74.9
40°	554.0	509.7	441.3	358.7	240.1	165.8	134.5	109.7	89.1	78.5	77.3
42.5°	610.6	573.4	476.7	366.4	259.6	187.6	144.5	114.4	92.6	80.8	79.6
45°	664.9	628.9	547.5	433.0	303.2	220.0	162.2	123.9	98.5	84.4	82.0
47.5°	763.4	725.6	612.4	501.5	363.4	270.8	197.6	138.6	106.8	87.9	85.0
50°	1019.4	965.7	832.4	664.3	464.9	343.9	253.1	169.3	118.0	89.7	86.1
52.5°	1349.8	1267.8	1123.3	908.5	664.9	486.7	354.6	246.0	137.5	90.3	85.0
55°	1885.5	1784.6	1552.1	1238.3	930.9	726.2	536.8	378.2	202.4	94.4	84.4
57.5°	2393.4	2318.5	2115.5	1694.3	1234.8	922.7	706.2	532.1	275.5	103.8	88.5
60°	2766.8	2624.1	2386.9	1955.1	1491.4	1070.7	785.8	553.4	283.2	105.6	91.4
62.5°	2989.8	2813.4	2461.8	1992.8	1528.0	1101.4	817.7	509.1	228.9	103.2	95.6
63°	*3006.4*	*2835.3*	*2471.3*	*1979.8*	*1516.2*	*1093.2*	*812.9*	*498.5*	*222.4*	*102.7*	*96.8*
65°	2985.7	2837.0	2438.2	1912.0	1415.9	1020.0	756.9	447.8	180.5	100.9	97.9
67.5°	2780.4	2659.5	2265.4	1728.5	1260.7	880.8	626.5	341.6	141.0	96.2	95.0
70°	2327.3	2188.7	1831.2	1428.8	999.4	711.5	499.7	264.9	116.2	91.4	90.3
72.5°	1732.1	1674.3	1391.1	1087.3	768.7	548.6	375.2	201.2	103.2	87.9	86.7
75°	1400.5	1313.8	1103.2	859.0	584.6	407.7	278.5	151.0	94.4	85.0	83.8
77.5°	1158.1	1100.2	918.0	648.3	417.1	293.8	204.7	119.8	90.3	83.2	82.6
80°	896.7	860.7	716.2	479.6	298.5	218.9	162.2	109.7	88.5	82.6	82.0
82.5°	632.4	621.2	521.5	358.7	253.7	195.9	151.0	108.0	89.1	83.8	82.6
85°	523.9	499.7	438.9	341.0	240.7	187.6	145.7	106.2	89.1	83.2	82.6
87.5°	510.3	490.2	424.8	319.2	220.6	173.4	136.9	102.1	86.1	80.8	80.2
90°	461.3	441.3	380.5	284.9	207.7	162.8	128.0	96.8	82.6	78.5	77.3
92.5°	393.5	375.2	330.4	259.0	198.8	156.3	124.5	95.0	82.0	77.3	76.7
95°	341.6	326.2	289.7	238.3	183.5	145.7	118.0	91.4	79.6	75.5	74.9
97.5°	272.0	262.5	234.2	194.1	155.2	127.4	105.6	86.1	76.7	73.2	72.6
100°	239.5	231.3	208.8	175.8	143.9	120.3	102.1	84.4	74.3	71.4	70.8
102.5°	224.8	218.3	198.2	165.2	135.1	114.4	97.3	81.4	72.6	69.6	69.0
105°	213.6	207.7	189.4	157.5	127.4	106.8	91.4	77.9	69.6	67.3	66.7
107.5°	200.0	195.3	177.6	146.3	119.8	100.3	86.7	74.9	67.8	65.5	65.5

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

Scaled Data Report

REPORT NUMBER: P1046230
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	188.8	185.2	167.0	139.8	114.4	96.2	83.8	73.7	67.3	64.9	64.9
112.5°	177.0	172.9	155.7	131.6	109.7	93.2	81.4	72.0	66.1	63.7	63.7
115°	164.0	159.9	143.4	122.1	103.8	88.5	77.9	69.0	63.7	61.9	61.9
117.5°	166.4	155.7	135.7	116.8	99.1	85.0	75.5	67.8	61.9	60.8	60.2
120°	168.7	155.2	140.4	122.7	102.1	83.2	73.7	66.1	61.4	59.6	59.6
122.5°	164.6	166.4	153.4	126.2	97.3	81.4	73.2	66.7	61.9	60.2	60.8
125°	161.1	165.2	149.8	119.2	93.8	80.8	73.2	68.4	64.3	62.5	62.5
127.5°	148.1	148.7	127.4	106.8	91.4	79.1	72.6	69.0	65.5	63.1	61.9
130°	130.4	129.2	119.2	103.8	86.1	76.1	70.2	68.4	64.9	60.8	60.2
132.5°	139.8	136.3	119.8	98.5	81.4	73.2	69.6	67.3	61.4	56.6	56.0
135°	132.7	129.2	112.1	92.0	79.1	74.3	72.6	66.7	57.8	54.3	53.7
137.5°	120.9	115.0	100.9	87.9	80.2	77.3	73.2	65.5	56.6	52.5	51.9
140°	116.2	110.3	99.1	90.3	81.4	72.0	64.9	57.8	51.9	48.4	47.8
142.5°	122.1	117.4	106.2	90.3	76.1	66.1	59.6	54.9	49.6	44.2	43.7
145°	142.2	133.3	118.0	101.5	86.7	74.9	64.9	54.9	45.4	39.5	38.9
147.5°	157.5	150.4	133.9	115.0	94.4	75.5	60.8	48.4	40.7	37.2	36.6
150°	131.0	126.8	114.4	99.1	83.8	66.7	52.5	43.1	38.3	37.2	37.2
152.5°	91.4	88.5	84.4	74.3	62.5	52.5	44.8	40.1	38.3	37.8	37.8
155°	80.8	79.1	73.7	64.9	56.6	49.0	43.1	39.5	38.9	38.3	38.3
157.5°	69.6	69.0	65.5	58.4	51.9	46.0	41.9	40.1	38.9	38.3	38.3
160°	62.5	60.8	57.2	52.5	48.4	44.8	42.5	41.3	40.1	39.5	39.5
162.5°	58.4	57.2	53.1	49.6	47.2	46.6	47.2	46.6	43.7	41.9	41.3
165°	55.5	54.9	50.7	48.4	47.2	50.1	53.7	52.5	47.2	44.2	44.2
167.5°	55.5	54.3	50.1	48.4	51.3	55.5	58.4	57.8	53.1	50.1	48.4
170°	52.5	51.3	50.1	50.7	54.9	56.6	57.2	58.4	59.0	61.9	63.1
172.5°	50.7	50.7	51.9	54.3	57.8	58.4	56.6	57.2	62.5	69.0	69.6
175°	53.1	53.1	55.5	59.6	61.4	62.5	60.2	60.8	66.7	73.2	73.7
177.5°	50.7	51.3	52.5	53.1	52.5	50.7	50.1	52.5	50.7	50.1	51.9
180°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

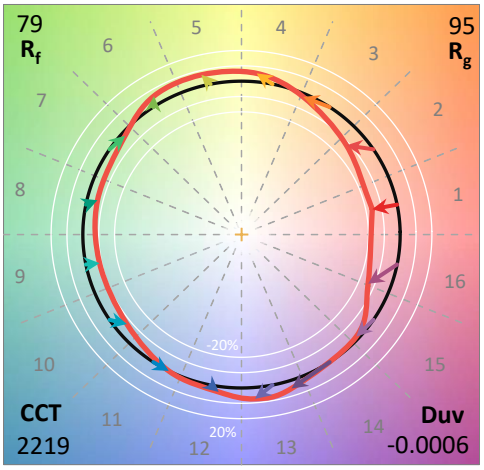
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
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-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

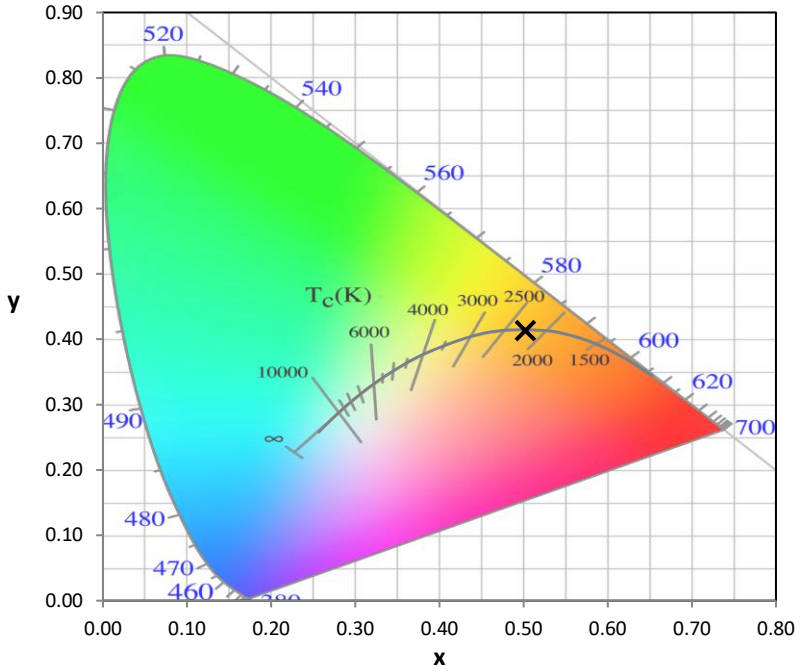
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

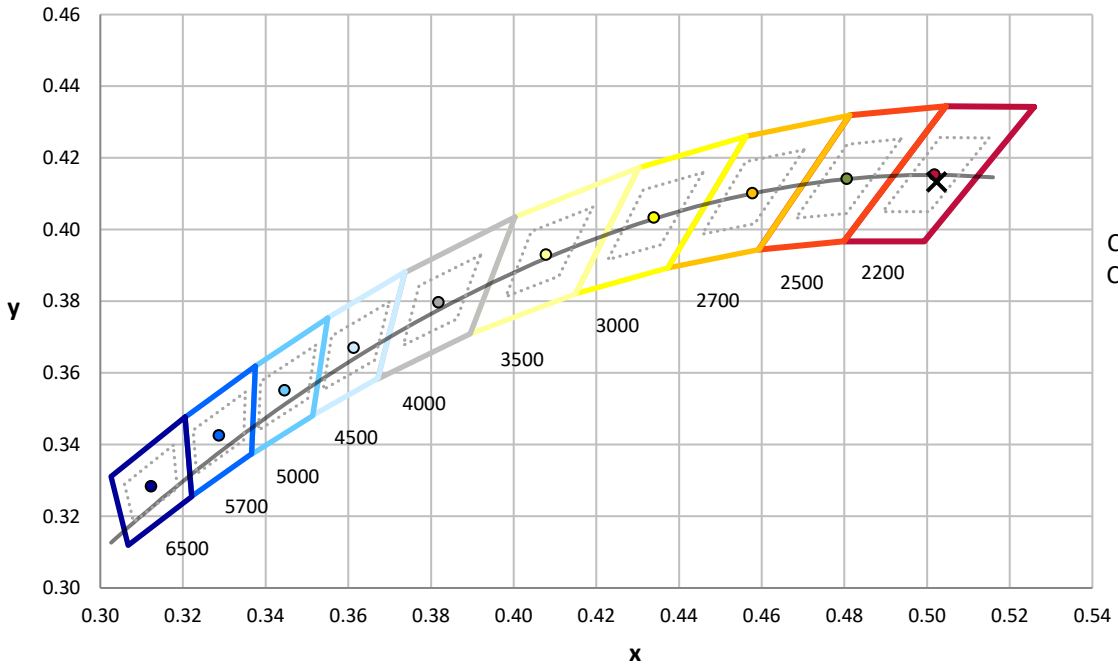
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

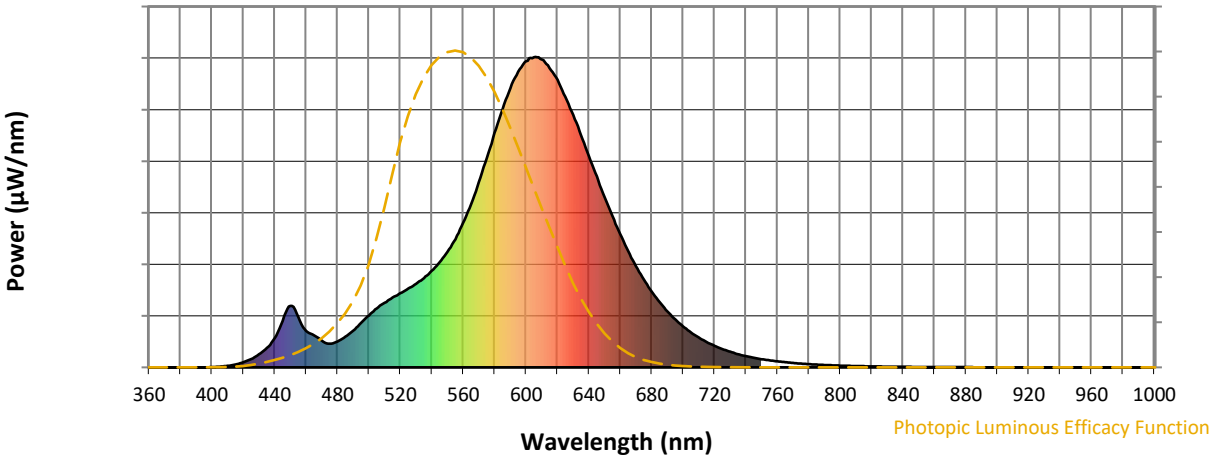


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

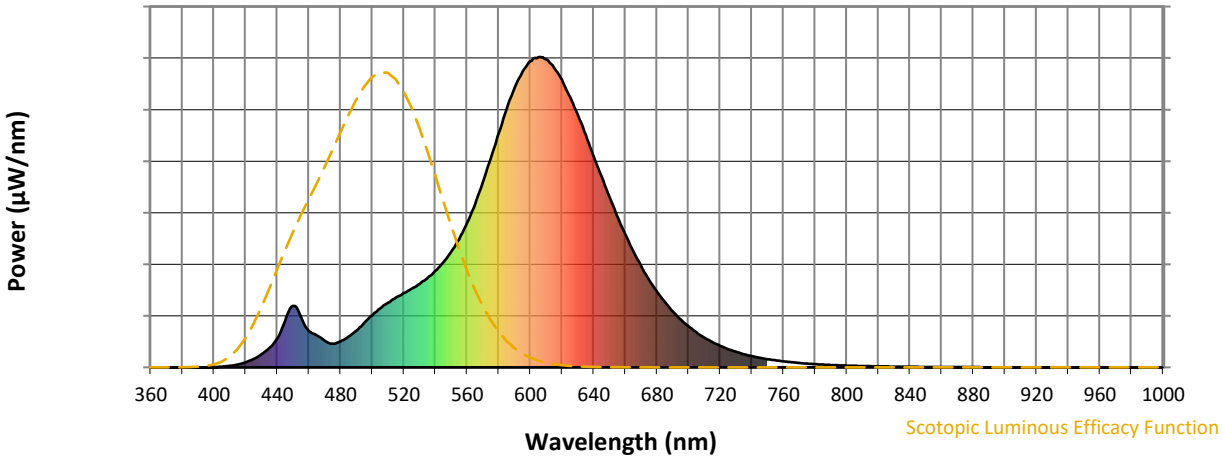


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

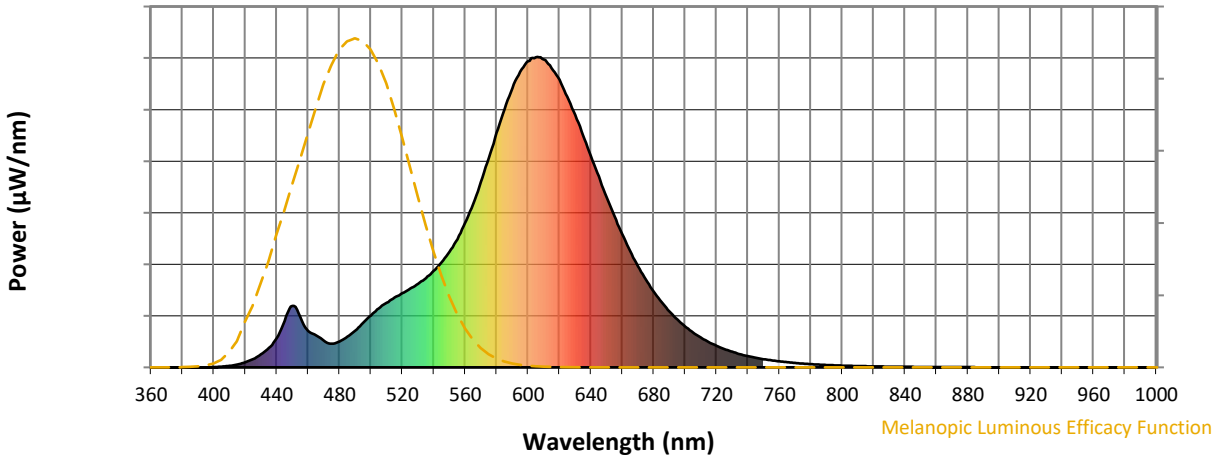


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

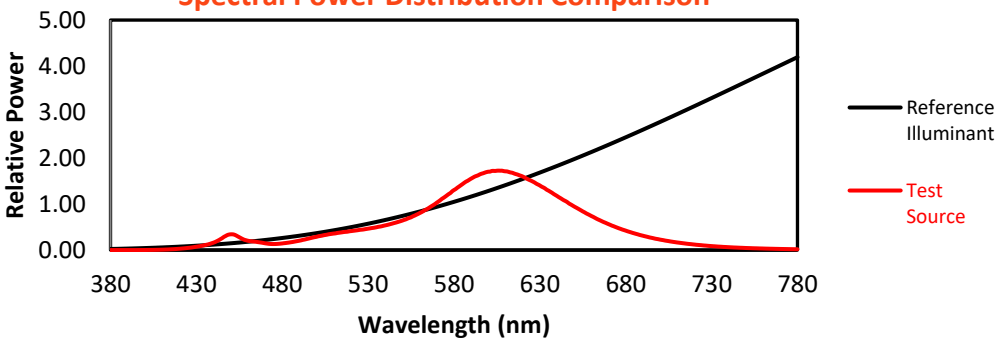
REPORT NUMBER: SP1-2501-332-2

TM-30-18

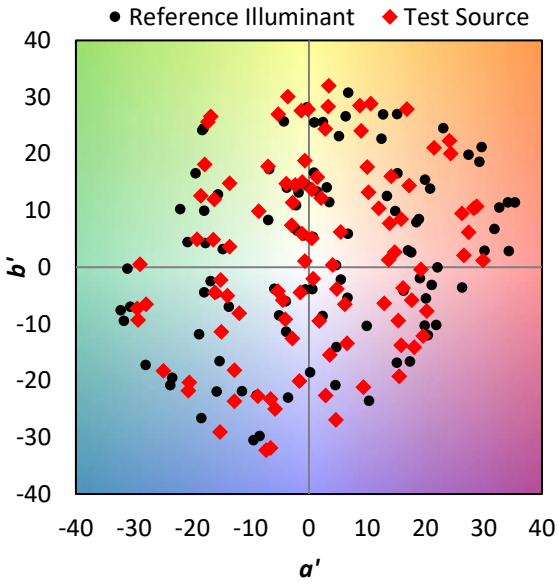
Summary

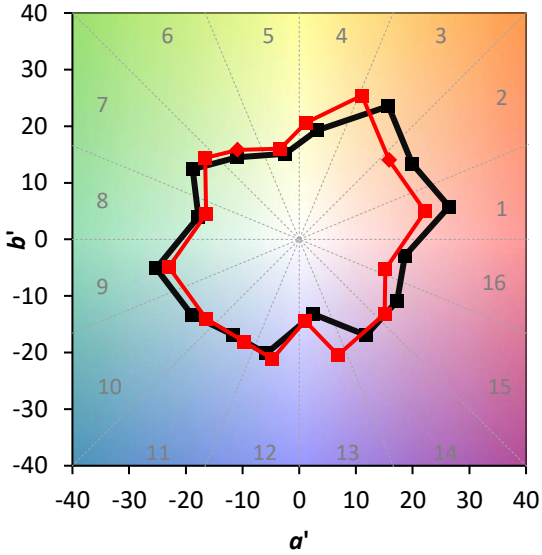
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

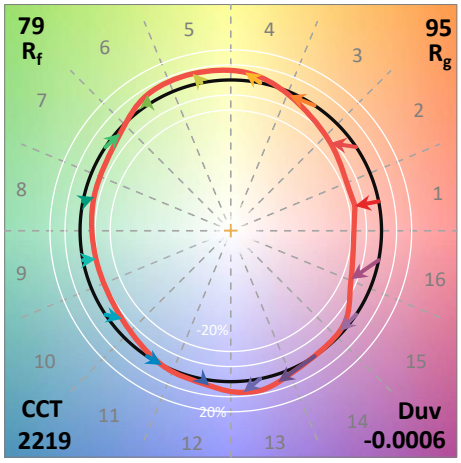
Spectral Power Distribution Comparison

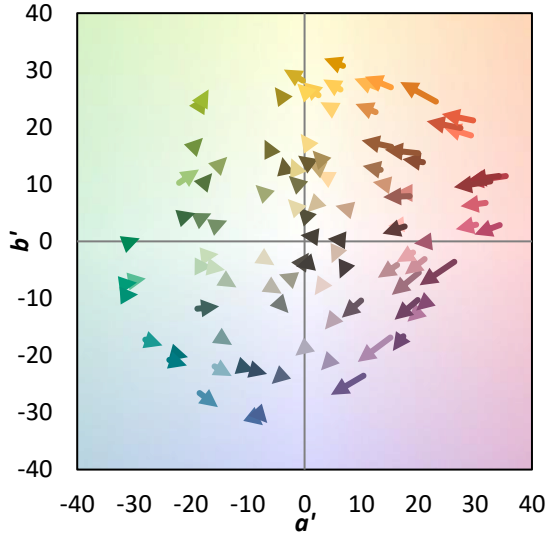


Color Vector Graphics







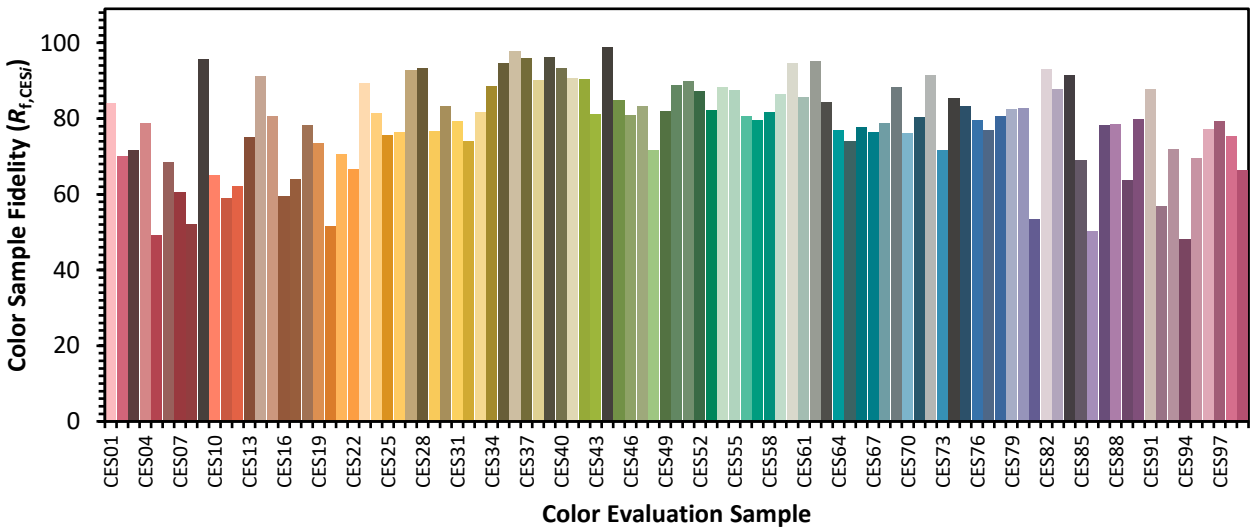


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

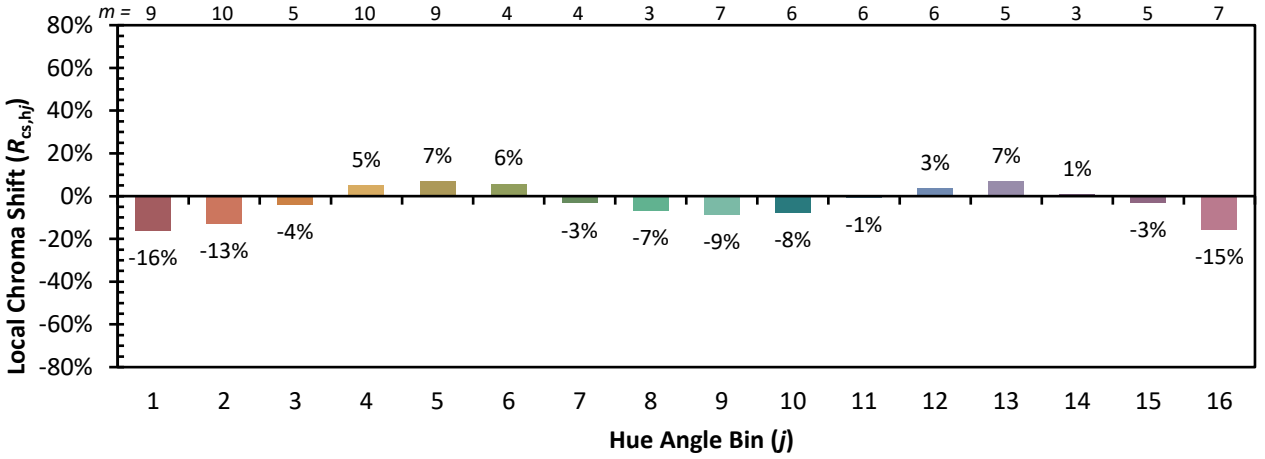
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

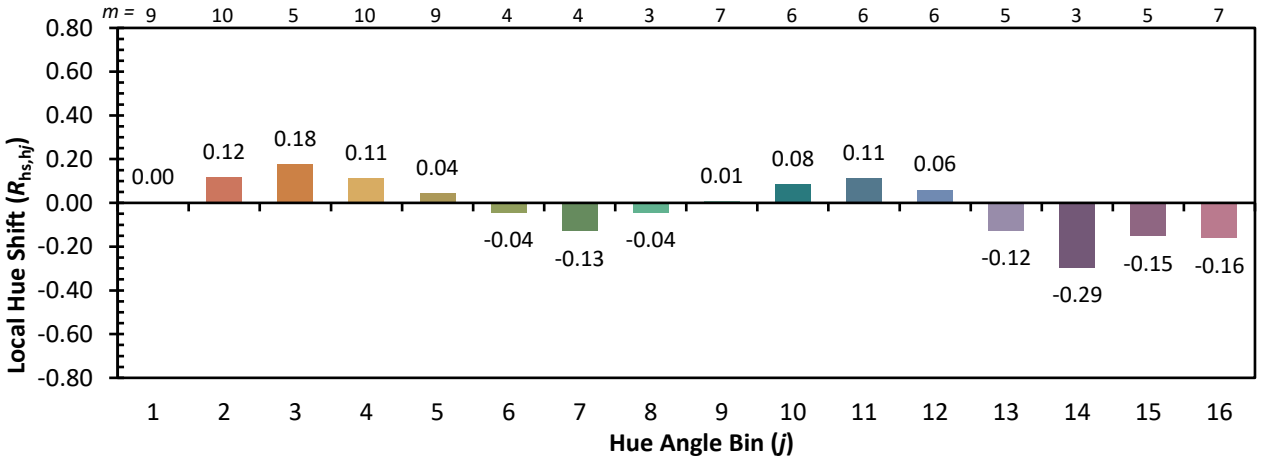


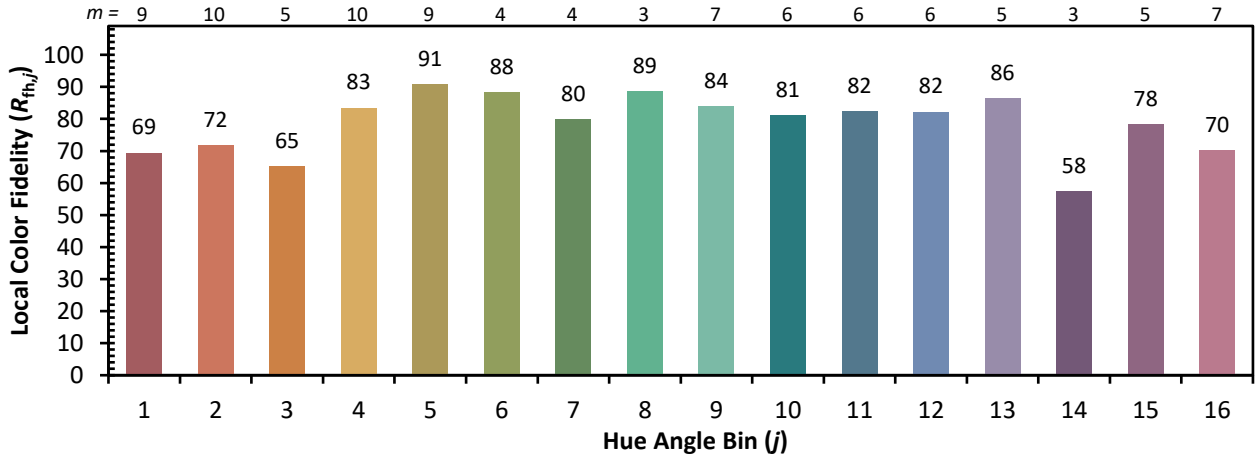
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Color Rendition by Hue-Angle Bin



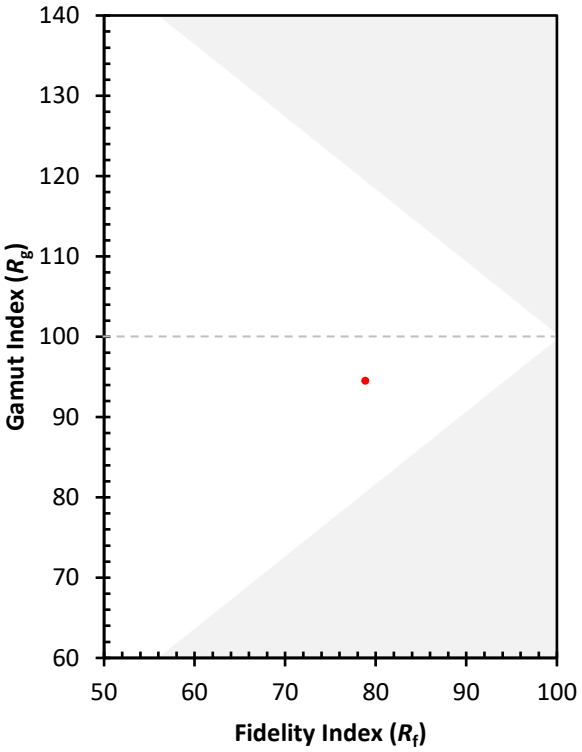


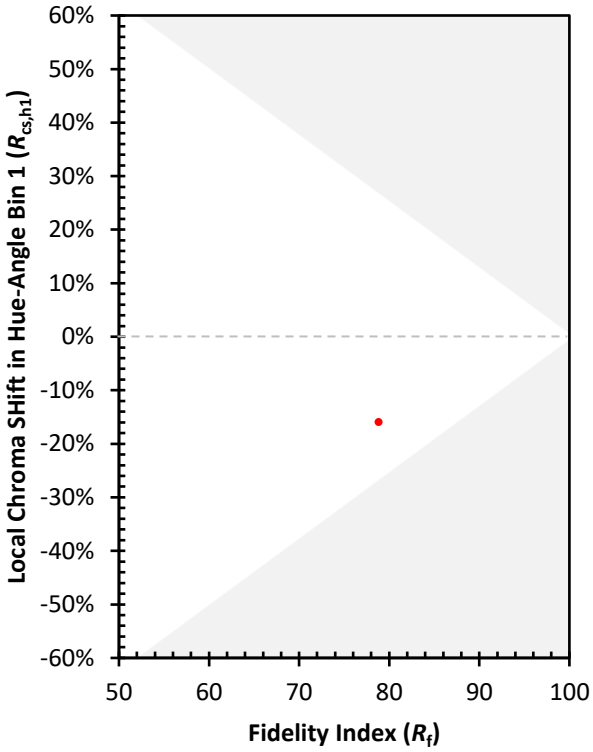


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Measure Comparisons





(END OF REPORT)