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: P1046184

Luminaire Tested: **FFX-CLB-80-722-U-FR-T4-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:	P1046184
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-722-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9702.8 lumens
Efficiency:	N/A
Efficacy:	118.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U5 - G3

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

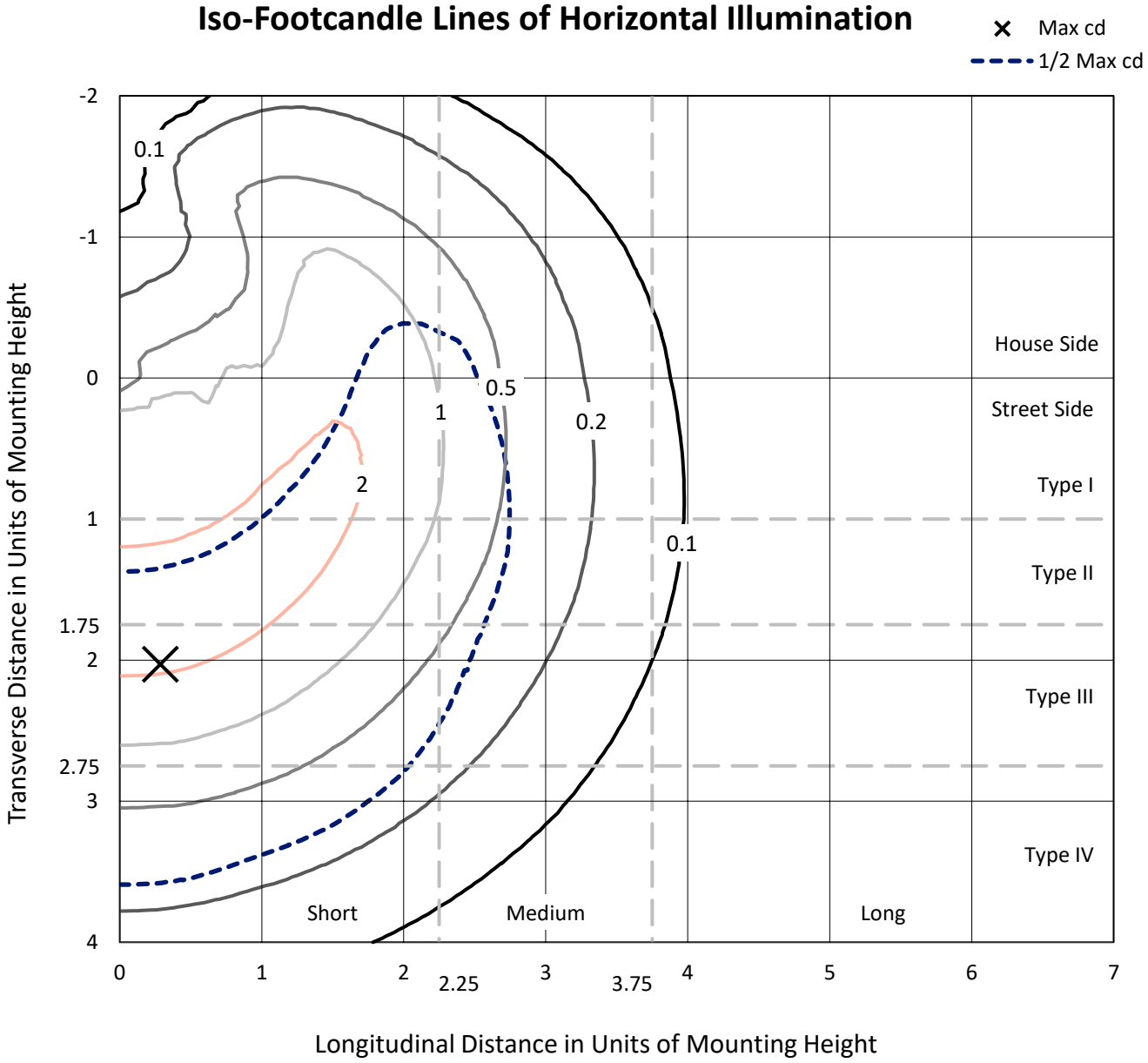


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Iso-Footcandle Lines of Horizontal Illumination



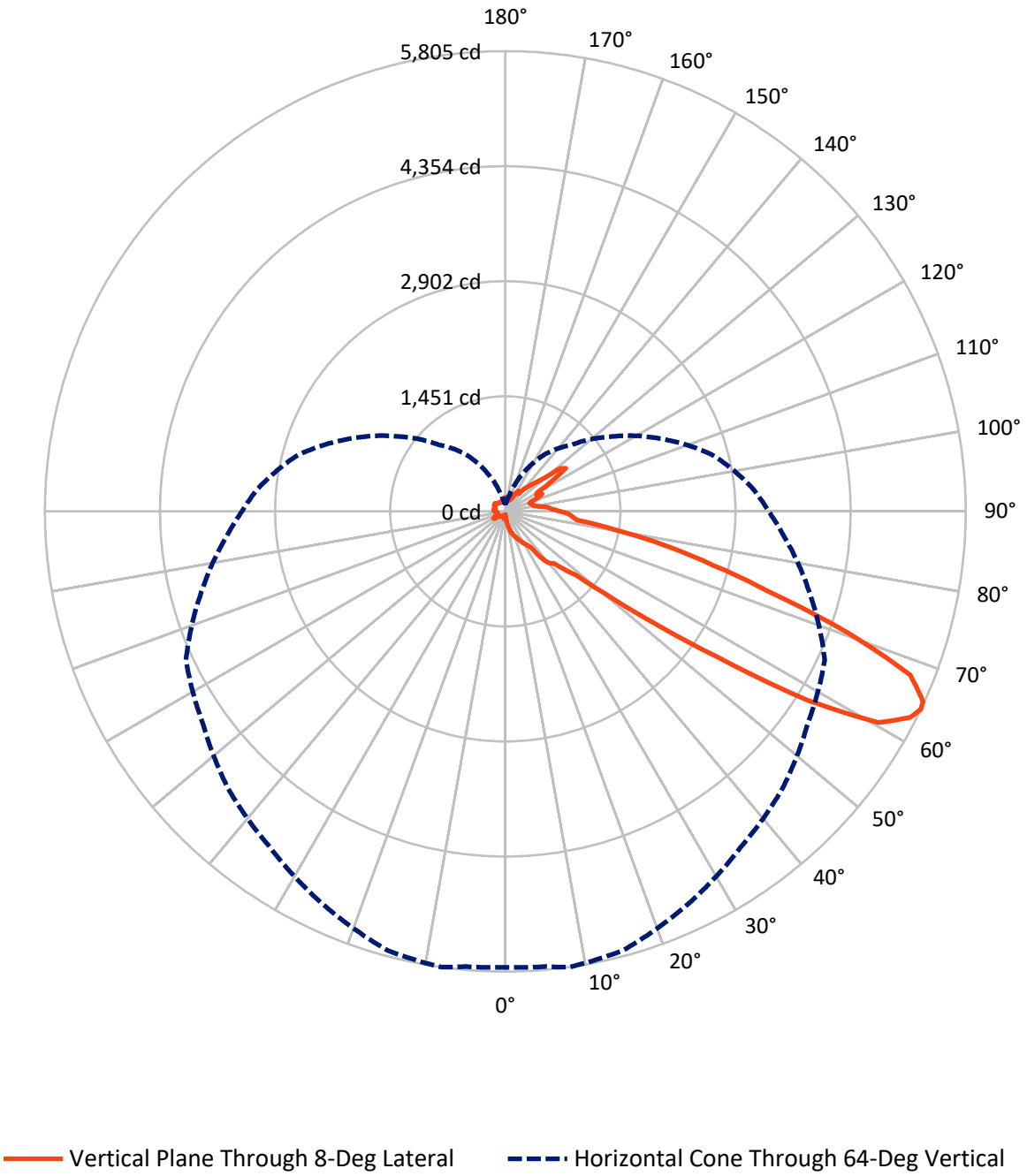
Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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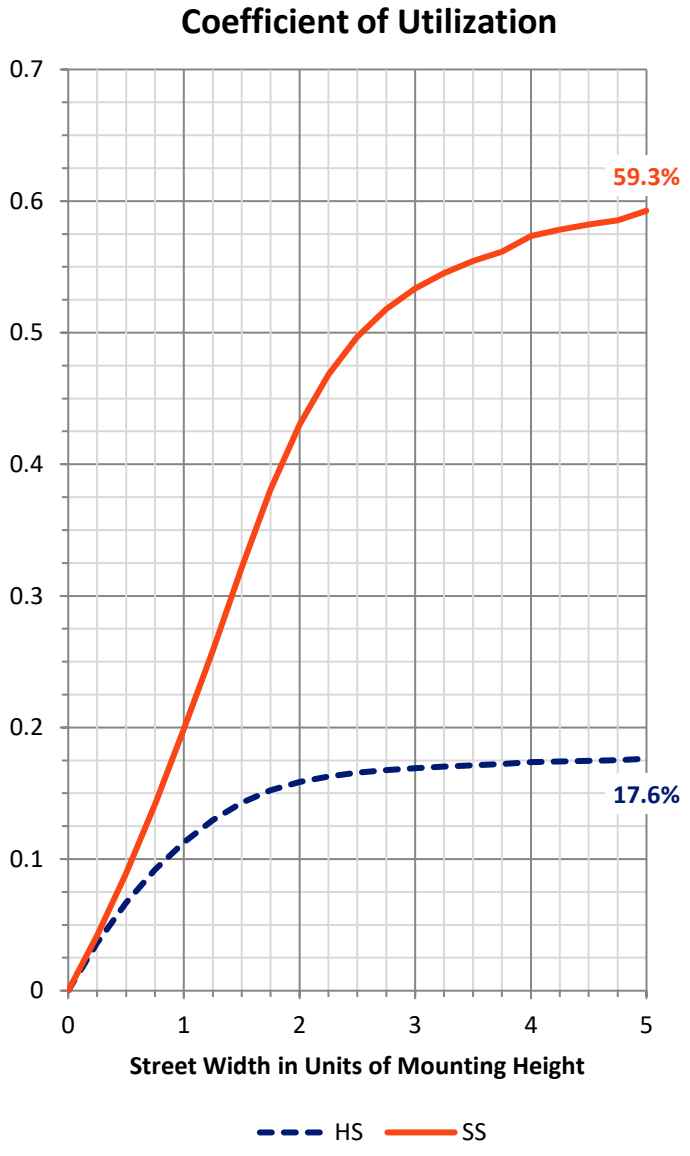
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1774.5	662.9	2437.3
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	5996.2	1269.3	7265.5
	% Fixture	61.8	13.1	74.9
Total	Lumens	7770.7	1932.1	9702.8
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.1
10°-20°	53.4	0.6
20°-30°	116.0	1.2
30°-40°	231.8	2.4
40°-50°	501.8	5.2
50°-60°	1739.3	17.9
60°-70°	2925.6	30.2
70°-80°	1590.9	16.4
80°-90°	602.2	6.2
90°-100°	380.0	3.9
100°-110°	256.4	2.6
110°-120°	277.4	2.9
120°-130°	456.4	4.7
130°-140°	281.1	2.9
140°-150°	147.0	1.5
150°-160°	76.6	0.8
160°-170°	41.6	0.4
170°-180°	15.7	0.2
0°-90°	7770.7	80.1
0°-180°	9702.8	100.0



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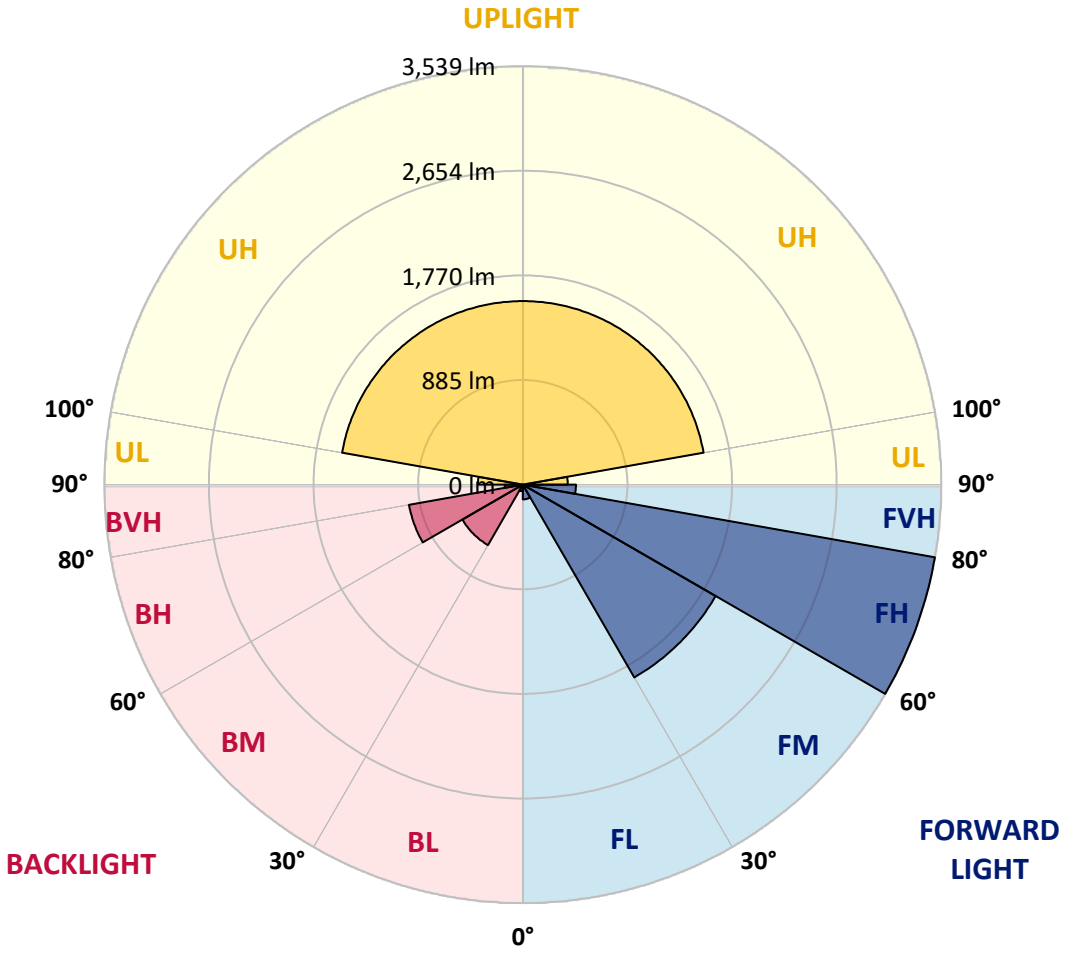
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	124.8	1.3			
FM	(30°-60°)	1883.0	19.4			
FH	(60°-80°)	3539.2	36.5			G2/5000
FVH	(80°-90°)	449.2	4.6			G3/500
BL	(0°-30°)	54.4	0.6	B0/110		
BM	(30°-60°)	589.8	6.1	B1/1000		
BH	(60°-80°)	977.2	10.1	B2/1000		G2/1000
BVH	(80°-90°)	153.0	1.6			G2/225
UL	(90°-100°)	380.0	3.9		U3/500	
UH	(100°-180°)	1552.1	16.0		U5	

BUG Rating: B2-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	62.4	62.4	*62.4*	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
2.5°	67.7	67.7	*67.7*	69.8	71.1	71.8	69.8	68.4	67.7	67.1	65.1
5°	97.3	97.9	*97.9*	99.9	98.6	99.9	97.3	95.2	91.9	87.9	84.5
7.5°	137.5	137.5	*136.8*	137.5	136.8	134.2	134.2	136.2	130.8	122.7	115.4
10°	186.5	187.8	*187.1*	184.5	180.4	177.1	177.1	179.8	171.7	157.6	146.9
12.5°	236.1	238.8	*236.1*	236.8	230.1	227.4	222.0	220.7	209.9	196.5	177.8
15°	273.0	275.0	*275.7*	277.7	277.0	268.3	258.9	248.9	240.1	228.1	208.6
17.5°	302.5	303.2	*304.5*	303.9	299.8	291.1	280.4	269.6	255.6	242.8	224.7
20°	331.4	334.0	*333.4*	332.7	330.7	324.0	311.2	295.8	283.7	264.9	246.2
22.5°	360.9	358.9	*360.2*	359.5	359.5	352.8	339.4	321.3	305.2	286.4	269.6
25°	395.1	394.4	*395.1*	393.1	390.4	387.0	370.3	349.5	331.4	311.9	288.4
27.5°	431.3	432.0	*432.6*	429.3	425.9	420.6	396.4	375.6	356.2	332.0	299.2
30°	471.5	469.5	*470.2*	465.5	463.5	446.7	423.2	398.4	377.0	344.8	312.6
32.5°	508.4	505.1	*504.4*	500.4	497.0	472.9	448.7	424.6	399.1	366.2	338.1
35°	560.1	566.8	*564.1*	564.1	572.8	535.9	507.8	484.3	456.8	422.6	393.1
37.5°	770.7	769.4	*761.3*	750.6	720.4	694.2	681.5	644.6	600.3	562.8	515.8
40°	872.7	868.6	*859.9*	838.4	817.0	786.1	766.7	743.9	721.1	654.7	579.5
42.5°	896.8	893.4	*895.5*	921.0	949.1	926.3	850.5	768.0	727.8	682.8	645.3
45°	1028.9	1040.3	*1043.7*	1043.0	1022.9	998.8	965.9	916.3	846.5	782.8	704.3
47.5°	1196.6	1195.3	*1203.3*	1192.6	1209.4	1167.1	1124.9	1073.2	1000.8	914.2	820.3
50°	1635.3	1621.2	*1623.2*	1627.3	1601.8	1570.9	1532.7	1503.8	1362.3	1239.6	1096.7
52.5°	2332.2	2334.2	*2319.5*	2318.8	2243.0	2183.3	2116.2	2118.9	1911.0	1746.0	1539.4
55°	3278.0	3279.3	*3226.3*	3269.9	3184.8	3176.7	3028.5	2837.3	2557.6	2332.9	2125.0
57.5°	4455.8	4496.1	*4491.4*	4413.6	4283.5	4213.0	3973.6	3773.0	3377.3	3024.4	2742.1
60°	5459.3	5440.5	*5409.7*	5350.6	4960.9	4797.3	4620.8	4449.8	4121.8	3633.5	3210.9
62.5°	5745.7	5731.6	*5726.3*	5696.7	5388.9	5119.2	4897.2	4617.5	4398.2	3919.2	3488.6
64°	*5750.4*	*5763.1*	*5804.7*	*5734.3*	*5460.6*	*5172.9*	*4942.8*	*4657.1*	*4443.8*	*3971.6*	*3522.1*
65°	5739.7	5737.0	*5789.3*	5700.1	5457.3	5170.2	4914.6	4641.0	4429.7	3957.5	3513.4
67.5°	5451.9	5440.5	*5507.6*	5392.9	5180.9	4922.0	4671.2	4377.4	4191.6	3738.1	3308.2
70°	4474.0	4473.3	*4577.9*	4482.0	4419.0	4144.6	3888.4	3618.7	3420.2	3047.9	2688.4
72.5°	3428.2	3422.2	*3492.0*	3420.2	3388.0	3258.5	3019.1	2781.0	2591.8	2312.8	2021.7
75°	2732.0	2734.7	*2697.8*	2627.4	2601.2	2543.5	2436.9	2294.7	2136.4	1882.8	1614.5
77.5°	2045.8	2032.4	*2048.5*	1949.9	1942.5	1925.1	1924.4	1833.2	1699.0	1537.4	1324.7
80°	1363.7	1371.7	*1400.5*	1374.4	1381.8	1375.7	1413.3	1316.7	1214.7	1119.5	1006.1
82.5°	882.0	903.5	*911.6*	947.8	979.3	993.4	941.7	844.5	780.8	745.9	695.6
85°	846.5	855.2	*850.5*	829.1	818.3	800.9	800.2	769.4	736.5	669.4	587.6
87.5°	780.8	790.8	*786.8*	768.0	743.9	741.9	737.2	715.7	700.3	647.3	574.8
90°	666.1	666.7	*670.1*	666.7	662.0	658.7	631.9	619.1	609.7	564.1	515.1
92.5°	577.5	585.6	*583.6*	577.5	562.1	571.5	542.6	518.5	513.1	481.6	444.0
95°	530.6	535.9	*537.3*	526.5	511.8	508.4	486.3	467.5	458.8	438.0	392.4
97.5°	440.0	436.7	*434.0*	431.3	421.2	410.5	396.4	372.9	365.6	342.8	317.3
100°	375.6	377.0	*375.6*	373.6	364.9	359.5	349.5	330.7	322.6	307.9	290.4
102.5°	358.2	358.9	*358.9*	359.5	344.8	332.7	322.0	308.5	301.2	288.4	271.7
105°	342.1	342.1	*343.4*	344.1	329.3	311.9	296.5	289.1	285.7	271.0	253.5
107.5°	322.0	321.3	*323.3*	314.6	299.8	292.5	276.4	267.6	266.3	254.9	236.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	351.5	344.1	*342.8*	321.3	301.2	284.4	276.4	268.3	263.6	248.2	236.8
112.5°	460.1	450.1	*447.4*	427.3	356.8	350.8	343.4	340.7	338.1	317.3	297.8
115°	507.1	507.1	*515.1*	507.1	458.1	402.5	394.4	382.3	387.0	361.5	333.4
117.5°	405.8	434.0	*442.0*	417.9	419.9	384.3	329.3	310.6	301.2	293.8	306.5
120°	455.4	474.2	*466.2*	421.9	401.8	381.0	383.7	377.0	343.4	297.1	301.8
122.5°	678.8	696.2	*702.3*	705.6	715.0	700.9	669.4	625.1	591.6	535.9	504.4
125°	950.5	937.7	*936.4*	942.4	949.8	931.7	918.3	909.5	888.8	815.6	713.0
127.5°	872.7	866.6	*876.7*	875.3	893.4	862.6	856.6	861.3	853.2	812.3	752.6
130°	625.8	636.5	*643.9*	668.1	703.6	676.1	650.6	612.4	609.7	629.8	598.3
132.5°	525.2	529.9	*543.3*	574.8	601.7	590.3	552.7	515.8	513.1	529.9	527.2
135°	464.2	467.5	*469.5*	470.9	466.2	476.9	468.9	455.4	446.7	447.4	439.3
137.5°	414.5	415.9	*414.5*	403.8	391.1	389.0	409.2	409.8	401.8	387.7	377.0
140°	359.5	359.5	*354.2*	346.8	344.8	345.4	356.8	358.9	349.5	338.1	322.0
142.5°	281.0	277.7	*278.4*	290.4	311.9	307.2	292.5	273.7	271.0	284.4	279.0
145°	303.9	303.2	*301.2*	301.8	296.5	287.8	282.4	276.4	265.6	256.9	248.2
147.5°	306.5	303.9	*305.2*	302.5	299.8	295.8	293.8	296.5	293.8	287.8	276.4
150°	242.1	243.5	*244.8*	241.5	244.2	245.5	244.2	242.1	245.5	238.1	233.4
152.5°	189.2	188.5	*187.8*	189.2	188.5	191.2	191.8	191.2	189.8	189.2	181.8
155°	177.8	179.8	*178.4*	174.4	177.1	179.1	181.8	183.8	181.8	178.4	171.7
157.5°	163.7	163.7	*163.7*	163.7	164.3	165.0	168.4	169.7	169.7	167.7	163.0
160°	152.3	152.9	*152.9*	152.9	154.3	155.6	157.6	159.0	160.3	159.0	156.3
162.5°	145.6	144.9	*144.9*	145.6	145.6	147.6	149.6	152.3	152.9	151.6	151.6
165°	141.5	141.5	*141.5*	142.2	143.5	144.9	147.6	148.2	148.9	150.2	150.2
167.5°	146.2	146.2	*146.2*	146.9	148.2	150.2	151.6	152.9	155.6	156.3	156.3
170°	153.6	153.6	*153.6*	154.3	154.9	155.6	156.3	157.6	158.3	159.6	159.0
172.5°	161.0	160.3	*161.0*	161.0	161.0	161.0	161.0	161.7	162.3	162.3	162.3
175°	169.0	169.0	*169.7*	169.0	167.7	167.7	167.7	168.4	168.4	168.4	167.7
177.5°	177.1	177.1	*176.4*	177.1	176.4	175.7	175.1	174.4	173.1	173.1	171.7
180°	172.4	172.4	*172.4*	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
2.5°	63.7	61.0	57.7	53.7	49.6	47.0	44.3	40.9	38.9	38.2	38.2
5°	80.5	78.5	75.1	69.8	66.4	60.4	55.0	51.6	48.3	44.9	42.3
7.5°	112.7	112.0	114.0	118.1	112.7	98.6	83.8	75.8	76.5	80.5	82.5
10°	141.5	137.5	138.2	147.6	138.8	112.0	91.9	84.5	88.5	96.6	97.9
12.5°	171.7	165.7	161.0	159.0	139.5	109.3	91.2	82.5	84.5	91.2	91.2
15°	199.2	191.8	181.1	167.0	144.2	117.4	95.2	82.5	82.5	81.8	80.5
17.5°	214.6	206.6	187.1	165.0	140.2	116.0	93.2	80.5	73.8	68.4	67.7
20°	238.8	234.8	209.9	178.4	144.2	113.4	89.9	77.1	69.8	65.7	64.4
22.5°	262.3	250.9	218.7	186.5	147.6	112.7	88.5	76.5	69.8	66.4	65.1
25°	275.0	260.9	228.7	195.9	152.3	113.4	89.9	77.8	70.4	67.1	66.4
27.5°	285.1	270.3	240.1	204.6	158.3	116.0	93.9	79.8	71.8	67.7	67.1
30°	298.5	284.4	253.5	215.3	163.7	122.1	98.6	83.2	73.8	69.8	69.1
32.5°	324.0	306.5	270.3	224.7	170.4	128.1	104.6	88.5	77.1	71.1	71.1
35°	377.0	358.2	309.9	250.2	177.8	132.8	108.7	91.9	79.8	73.1	72.4
37.5°	488.3	464.8	405.8	313.2	195.9	139.5	113.4	93.9	81.2	75.1	73.8
40°	542.0	498.4	432.0	350.1	226.0	150.2	120.7	98.6	83.2	75.8	75.1
42.5°	607.0	570.8	479.6	359.5	250.9	175.1	133.5	105.3	87.2	77.1	76.5
45°	670.8	635.2	554.0	437.3	301.8	214.0	154.3	116.7	93.2	80.5	78.5
47.5°	782.1	723.7	626.5	511.8	371.6	271.0	189.8	132.8	103.3	84.5	81.8
50°	1057.8	1019.6	870.6	694.9	483.6	352.8	258.2	170.4	114.7	87.2	83.2
52.5°	1426.7	1354.3	1185.2	969.9	701.6	523.9	377.6	252.9	140.9	89.9	84.5
55°	2010.9	1898.2	1703.7	1330.8	1006.8	794.2	590.9	415.2	214.6	95.9	85.2
57.5°	2635.4	2533.5	2301.4	1839.2	1364.3	1011.5	778.1	586.2	301.2	109.3	92.6
60°	3053.3	2875.5	2610.6	2163.9	1649.4	1189.3	870.6	615.1	312.6	112.0	96.6
62.5°	3292.7	3109.0	2717.2	2204.1	1700.4	1228.8	910.9	563.4	249.5	108.7	100.6
64°	*3320.9*	*3143.8*	*2718.6*	*2165.9*	*1646.0*	*1187.9*	*882.7*	*528.6*	*216.7*	*107.3*	*102.6*
65°	3298.8	3135.1	2685.7	2120.3	1572.9	1134.9	849.2	493.7	192.5	106.0	103.3
67.5°	3083.5	2939.9	2469.1	1923.1	1398.5	980.0	696.9	379.6	150.9	103.3	102.0
70°	2497.2	2431.5	2029.7	1551.5	1105.4	781.4	549.4	290.4	128.1	100.6	99.3
72.5°	1873.4	1790.3	1514.6	1183.9	861.3	607.7	417.2	223.4	113.4	97.9	96.6
75°	1501.8	1420.7	1200.7	932.4	640.6	454.1	308.5	167.0	106.7	97.3	95.9
77.5°	1241.6	1176.5	987.4	709.7	455.4	325.3	226.7	136.2	104.6	97.9	96.6
80°	955.2	944.4	771.4	516.5	322.6	242.8	183.1	127.4	105.3	100.6	99.3
82.5°	670.1	643.3	544.7	384.3	279.0	222.0	175.7	129.5	110.7	106.7	106.0
85°	552.0	531.2	466.2	369.6	265.6	214.6	173.7	132.8	116.0	112.7	111.3
87.5°	546.0	523.2	461.5	353.5	252.2	204.6	165.7	129.5	115.4	113.4	114.7
90°	495.7	478.9	421.9	326.0	250.2	207.9	173.1	142.9	128.1	121.4	120.1
92.5°	434.0	423.9	383.7	316.6	259.6	220.0	188.5	158.3	144.9	140.9	138.8
95°	379.0	375.0	342.1	287.8	239.5	207.3	178.4	152.3	140.9	135.5	134.8
97.5°	310.6	305.9	280.4	244.8	209.3	182.4	161.0	140.9	132.8	132.1	131.5
100°	283.7	280.4	262.3	239.5	211.3	191.2	172.4	155.6	148.9	148.9	149.6
102.5°	262.3	260.3	244.2	220.7	198.5	179.8	164.3	148.9	140.9	140.9	136.2
105°	244.8	241.5	226.7	207.9	185.1	167.7	152.9	141.5	132.8	130.1	130.1
107.5°	229.4	225.4	213.3	195.2	178.4	161.7	148.2	137.5	131.5	129.5	129.5

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

Scaled Data Report

REPORT NUMBER: P1046184
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	230.1	226.7	212.6	193.2	177.8	165.0	154.3	144.2	138.8	134.8	134.8
112.5°	283.1	269.0	244.2	215.3	197.9	181.1	164.3	150.2	143.5	142.2	140.9
115°	320.6	306.5	275.7	238.1	206.6	183.1	166.3	155.6	149.6	153.6	155.6
117.5°	322.0	296.5	237.4	219.3	196.5	177.1	165.7	159.0	154.9	159.0	159.0
120°	328.0	276.4	244.8	237.4	210.6	183.1	170.4	169.0	165.0	157.0	157.0
122.5°	487.6	440.7	390.4	326.7	271.0	244.8	222.0	182.4	163.7	154.9	154.3
125°	672.1	623.1	544.7	459.5	379.0	295.1	219.3	187.1	167.7	157.0	154.9
127.5°	714.4	676.1	572.8	470.9	356.8	275.0	220.0	192.5	173.1	161.7	159.6
130°	576.2	546.0	476.2	393.1	313.9	254.2	214.6	187.1	168.4	157.0	154.3
132.5°	512.5	484.3	415.9	340.1	278.4	232.1	196.5	169.7	150.9	142.9	142.9
135°	428.6	409.2	348.1	303.2	258.9	220.0	185.1	160.3	144.9	140.2	140.2
137.5°	367.6	352.1	308.5	273.0	238.8	205.3	175.1	154.9	144.2	139.5	138.8
140°	314.6	304.5	279.0	244.2	211.3	178.4	154.9	143.5	138.8	136.8	136.2
142.5°	273.7	266.3	243.5	207.3	175.1	154.9	146.2	142.9	138.2	133.5	132.8
145°	239.5	233.4	207.3	186.5	171.0	163.0	156.3	146.2	134.8	128.8	128.1
147.5°	269.0	259.6	236.8	212.6	187.8	169.0	154.3	140.9	130.1	126.1	126.1
150°	231.4	224.7	210.6	191.8	171.0	153.6	140.9	132.1	128.1	127.4	127.4
152.5°	179.8	176.4	172.4	163.0	149.6	138.2	130.1	126.1	127.4	130.1	130.8
155°	169.0	167.7	163.7	154.9	146.2	135.5	128.8	126.8	128.8	131.5	132.1
157.5°	161.0	160.3	157.0	148.9	140.9	134.2	129.5	128.1	130.1	132.1	132.1
160°	154.3	153.6	148.9	142.9	136.8	132.1	128.8	128.8	130.8	132.1	132.1
162.5°	150.2	149.6	146.2	141.5	137.5	134.8	134.2	134.2	134.8	135.5	135.5
165°	150.2	149.6	146.2	142.2	139.5	139.5	140.9	141.5	139.5	138.2	138.8
167.5°	156.3	154.9	150.9	147.6	146.9	147.6	149.6	149.6	148.2	146.2	145.6
170°	158.3	157.6	156.3	154.9	154.9	154.9	155.6	156.3	156.3	157.0	157.0
172.5°	162.3	162.3	161.7	161.7	162.3	161.7	161.7	163.0	164.3	165.0	165.7
175°	167.7	167.0	167.7	167.7	168.4	167.7	167.0	168.4	170.4	171.7	171.7
177.5°	171.7	171.7	171.0	170.4	170.4	170.4	170.4	171.0	171.0	171.0	170.4
180°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4

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

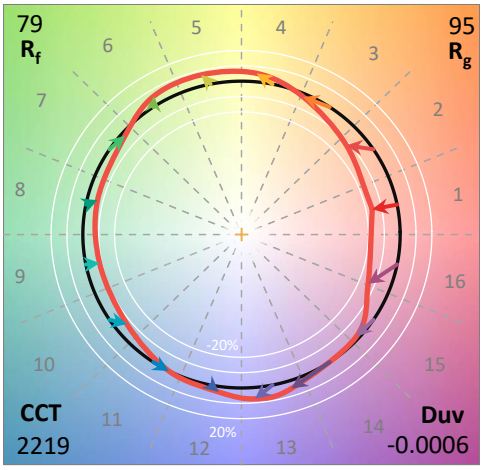
Test Information

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

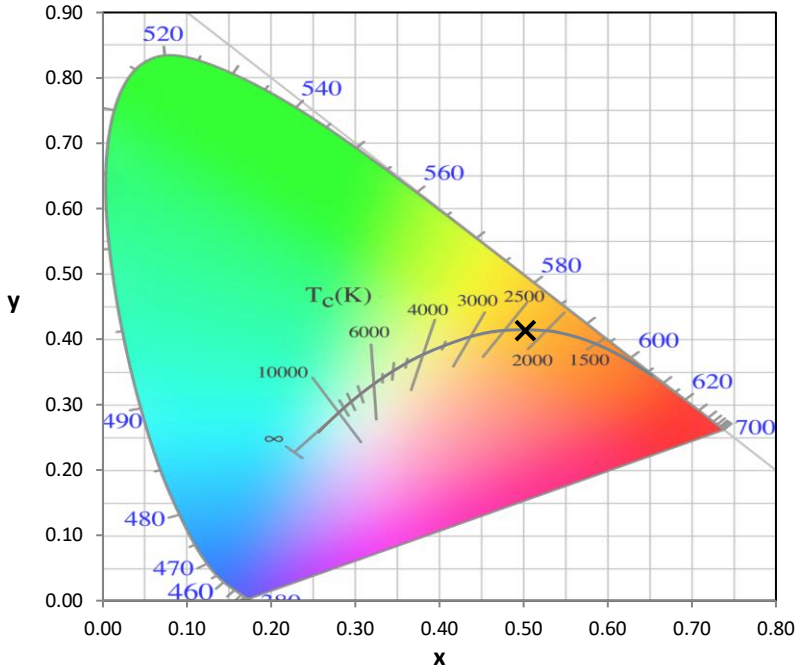
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

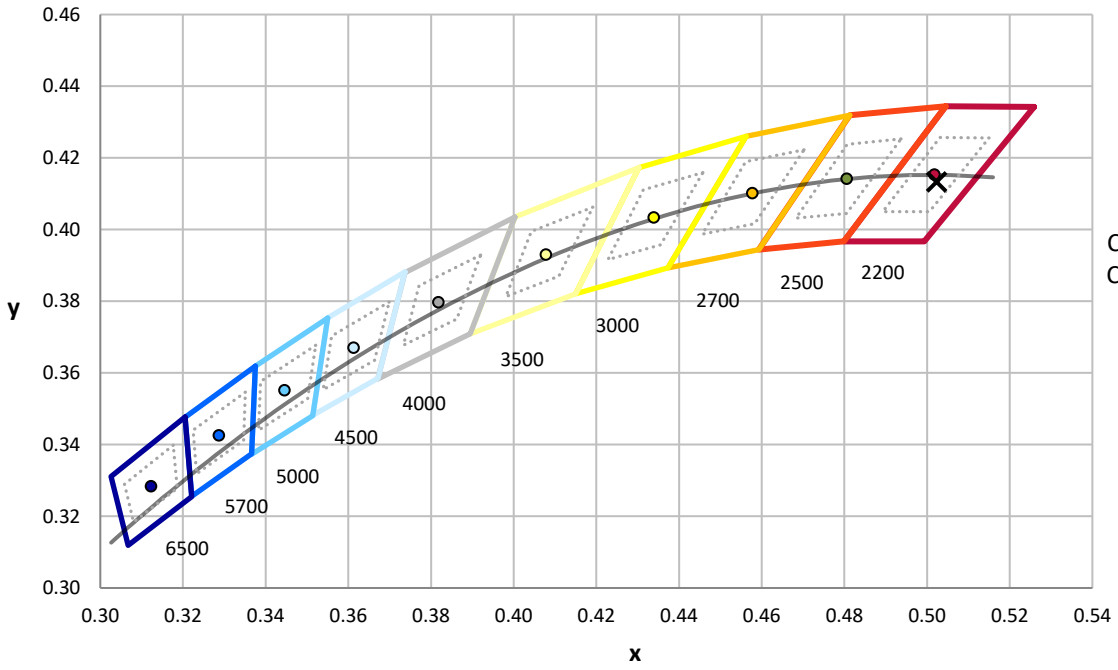
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

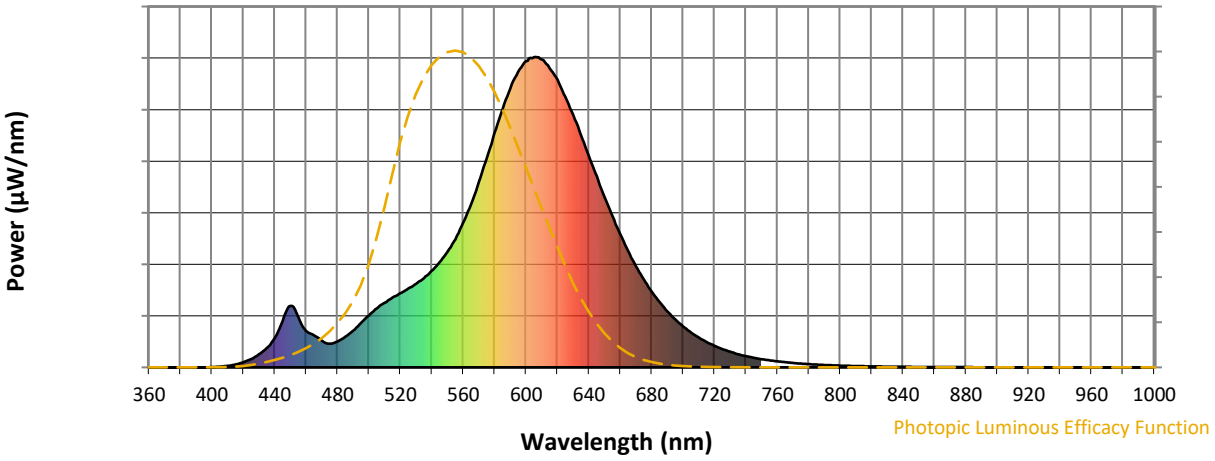


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

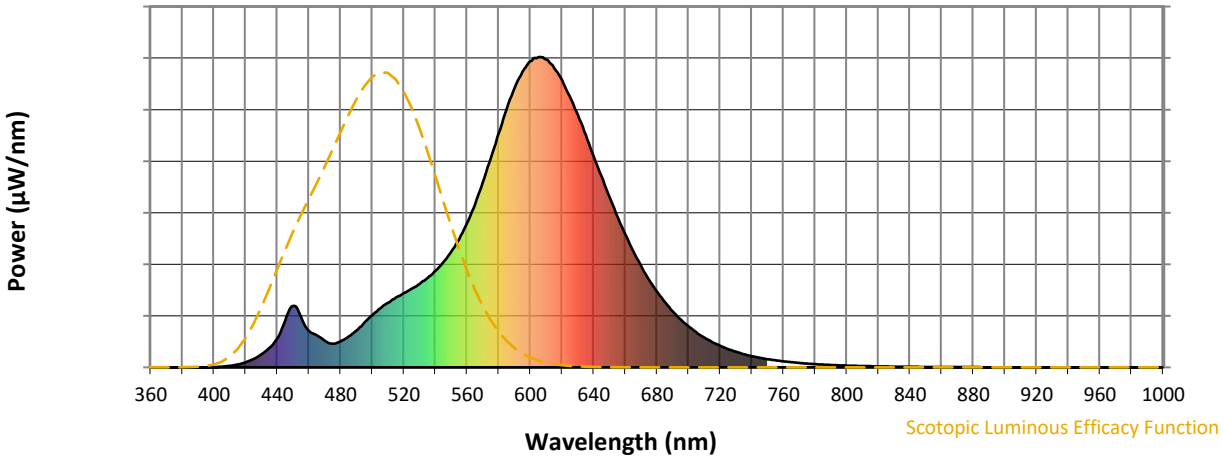


Photopic Lumens: NR

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

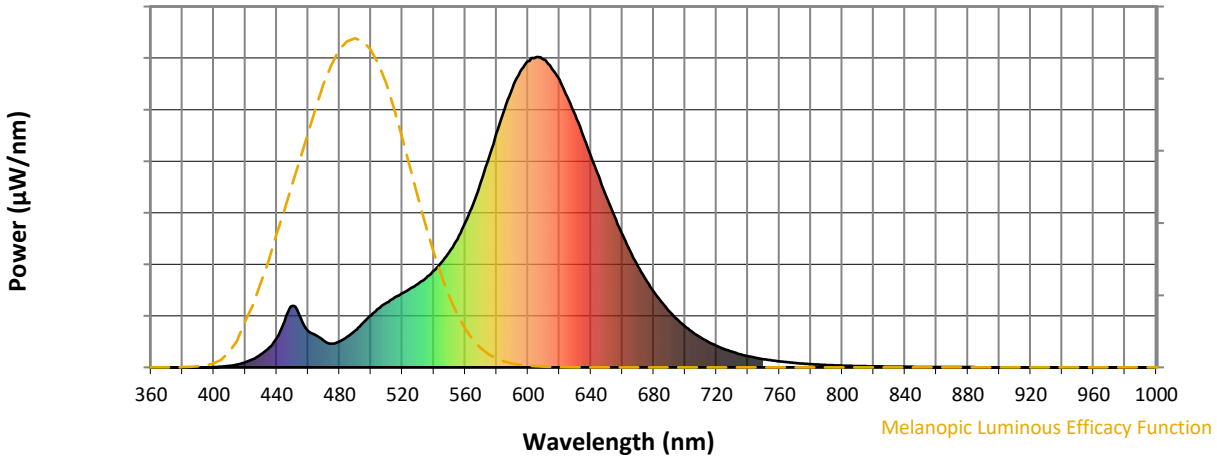


Scotopic Lumens: NR **S/P: 0.94**

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			

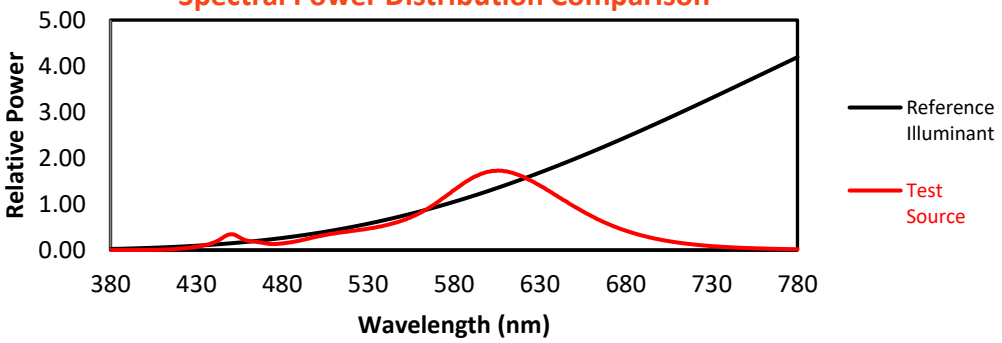
REPORT NUMBER: SP1-2501-332-2

TM-30-18

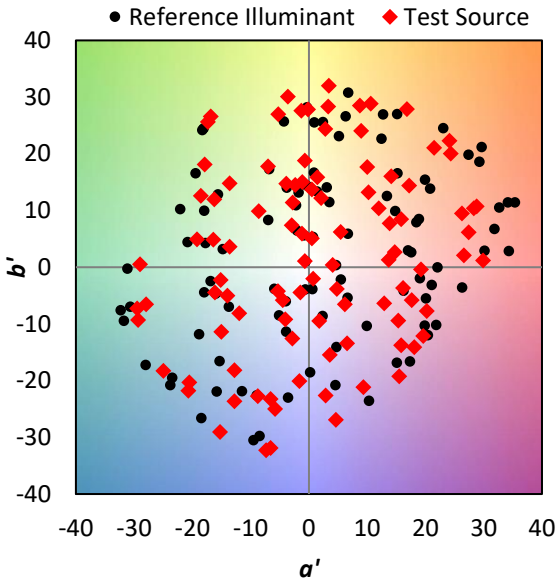
Summary

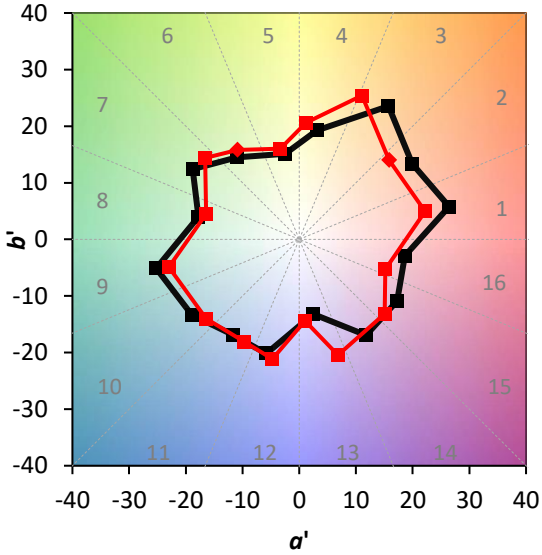
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

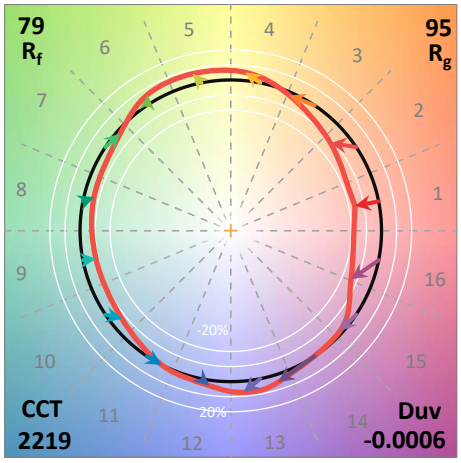
Spectral Power Distribution Comparison

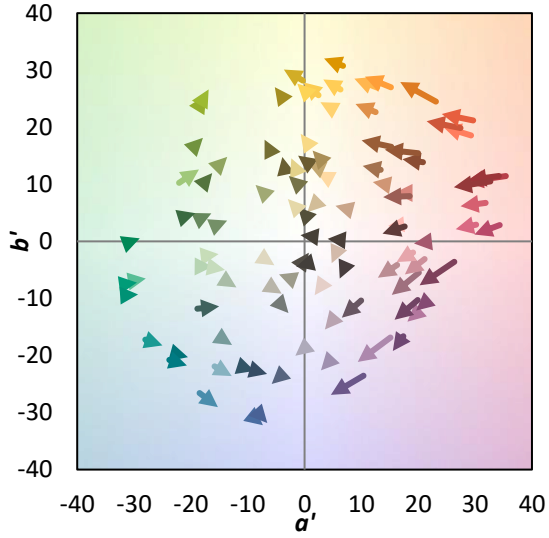


Color Vector Graphics







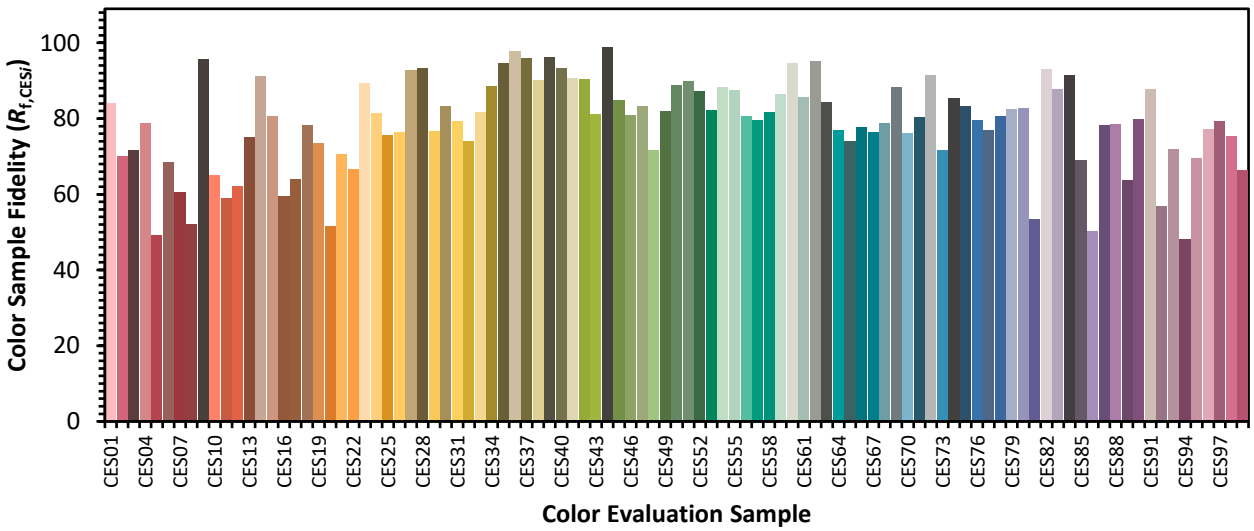


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

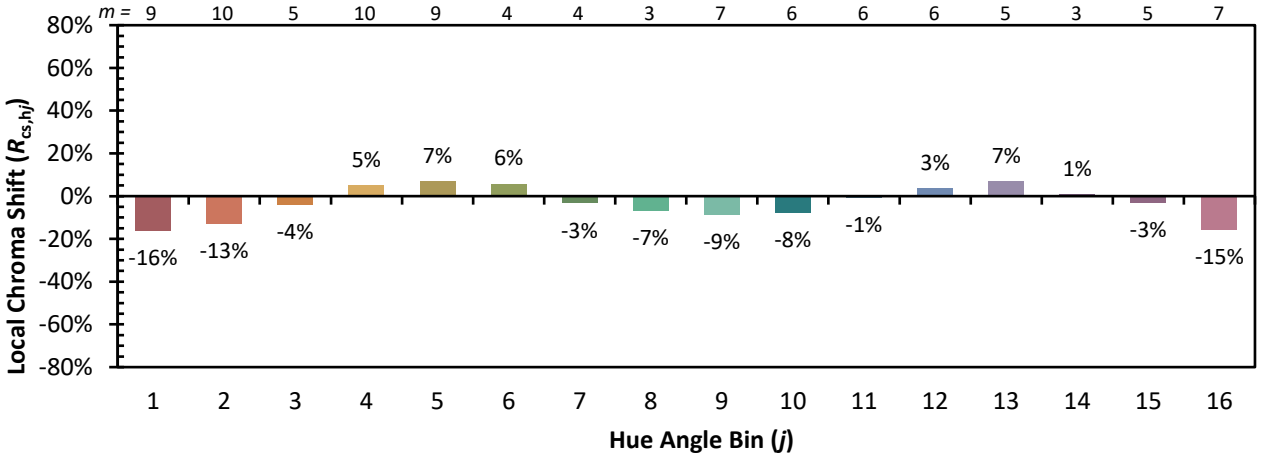
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 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	

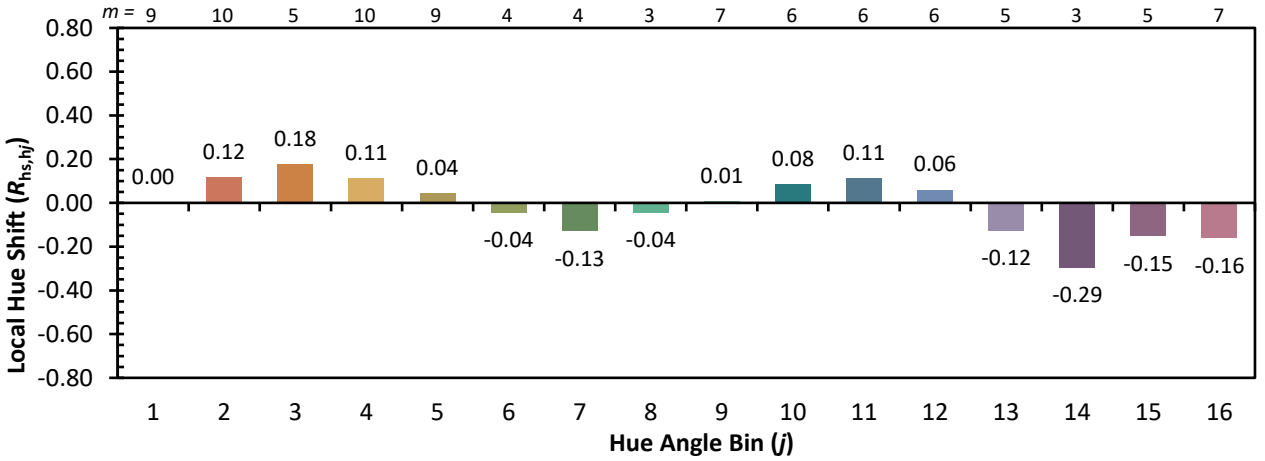


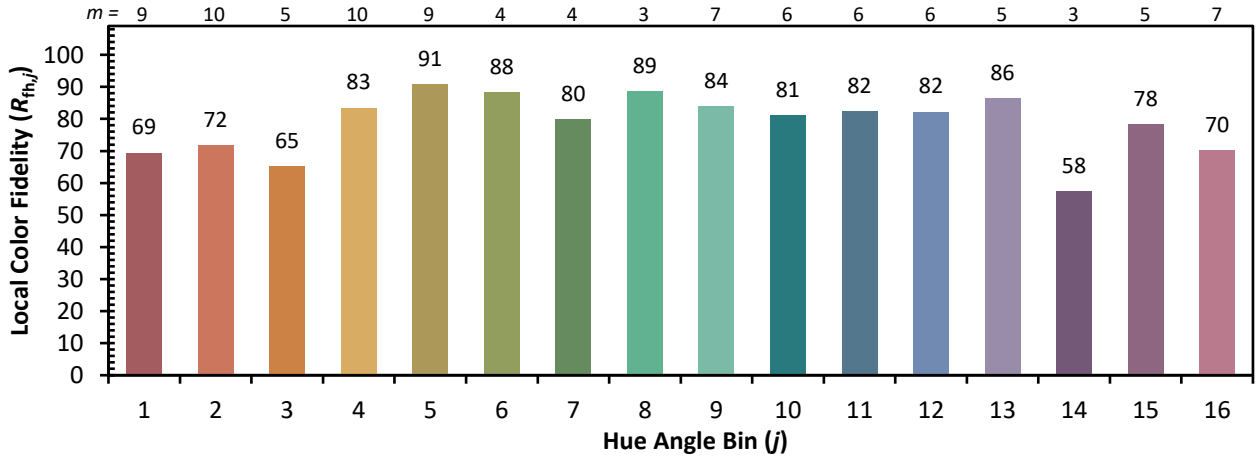
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Color Rendition by Hue-Angle Bin



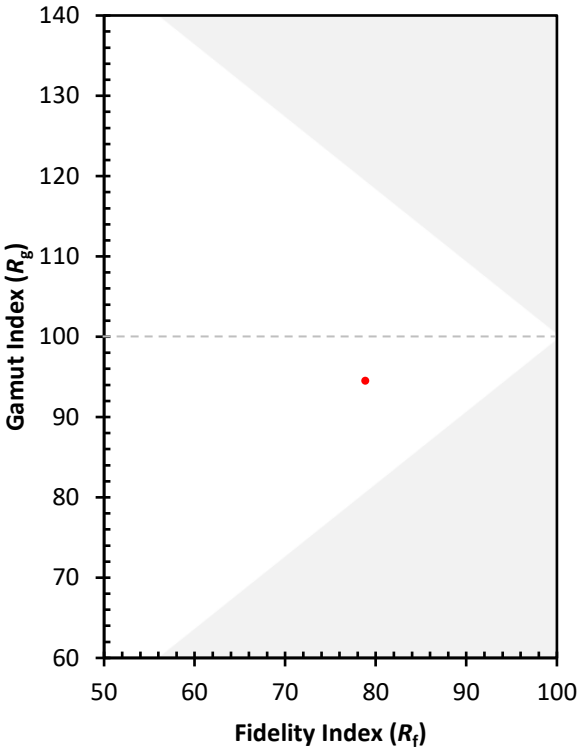


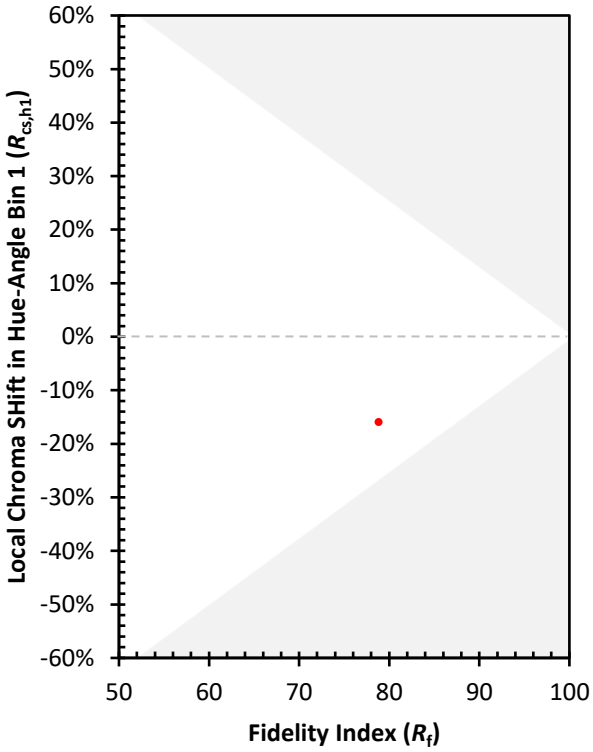


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Measure Comparisons





(END OF REPORT)