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: P1046185

Luminaire Tested: **FFX-CLB-70-722-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:	P1046185
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-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:	8532 lumens
Efficiency:	N/A
Efficacy:	119.8 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):	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

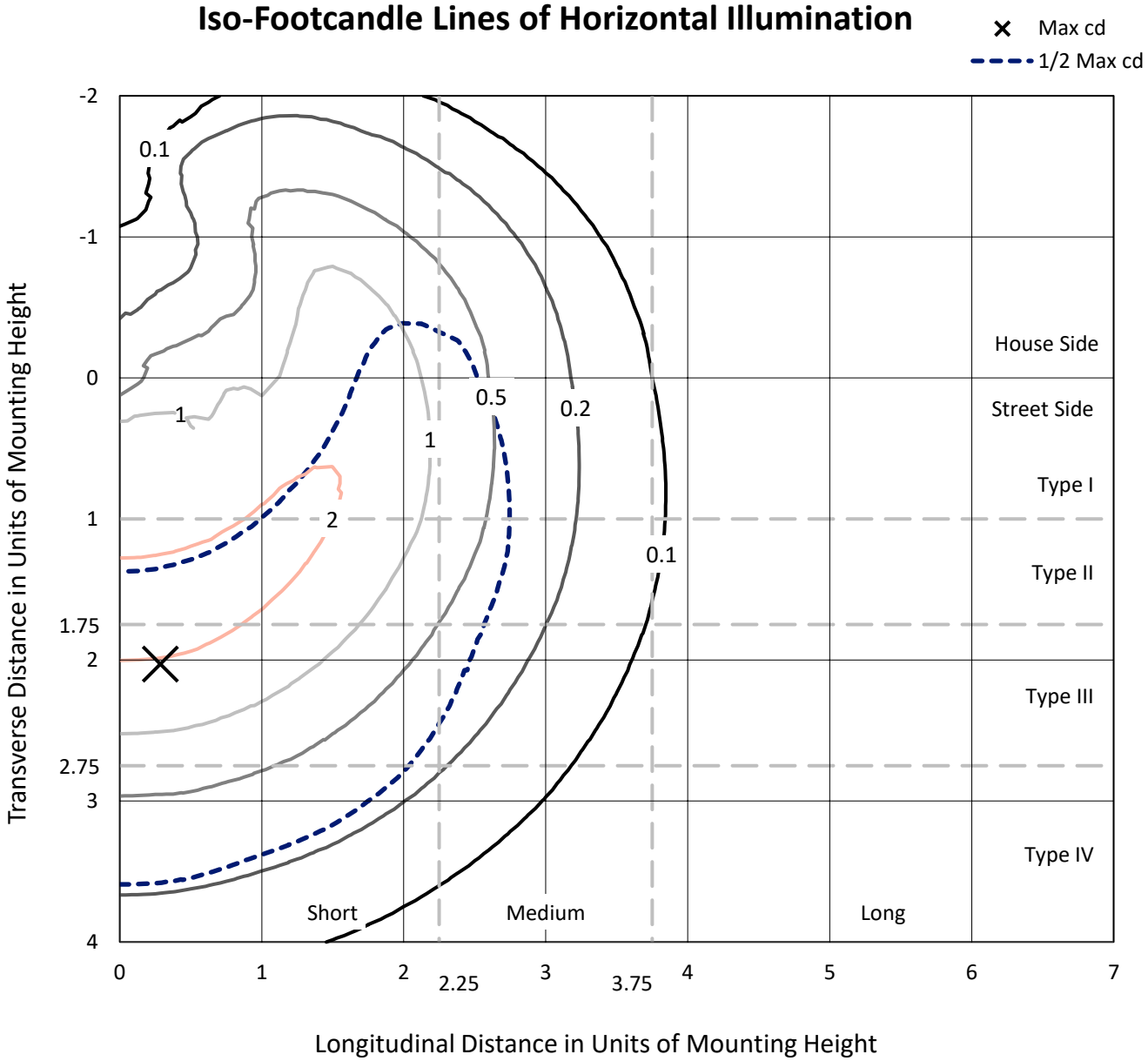


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Iso-Footcandle Lines of Horizontal Illumination



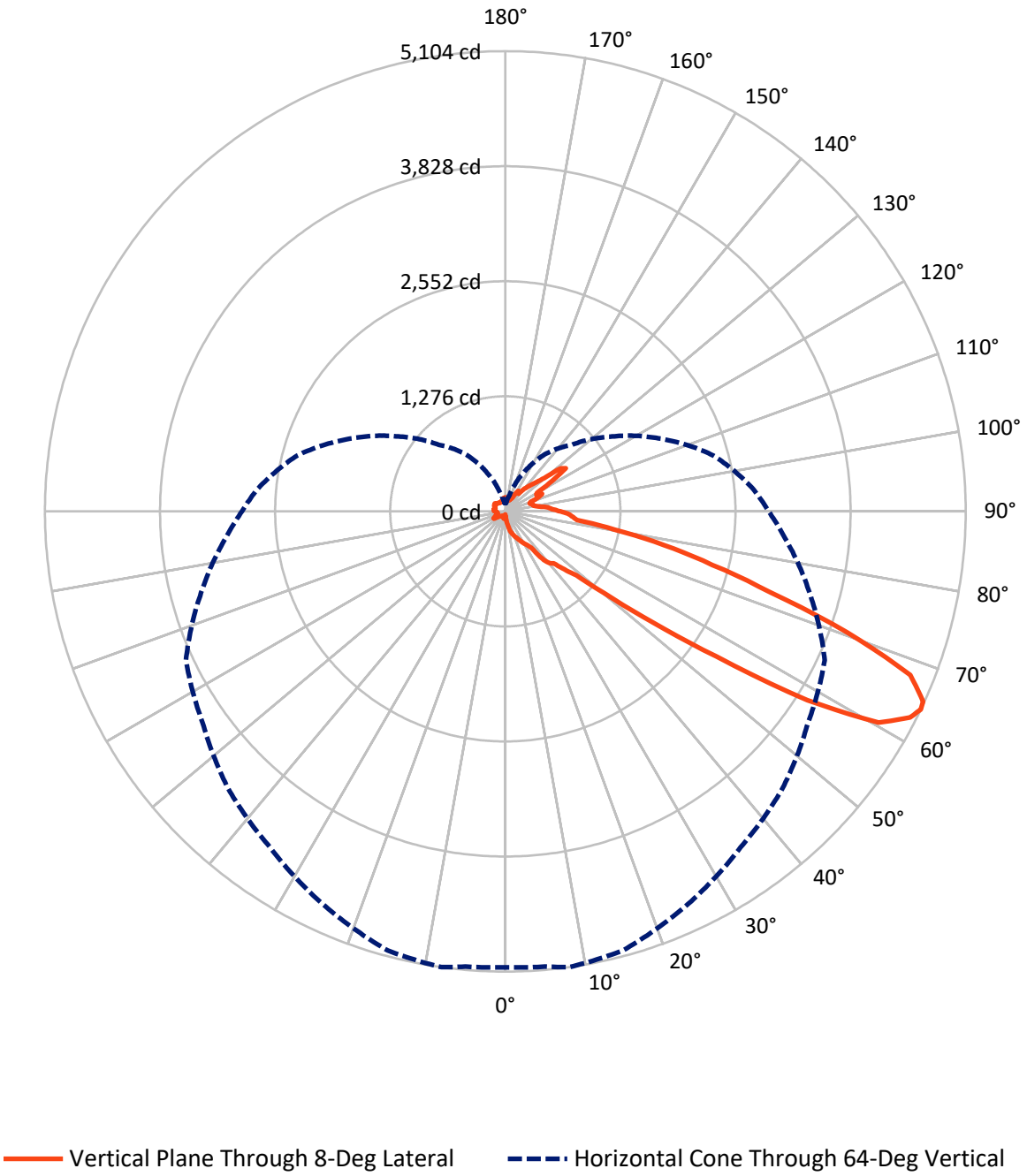
Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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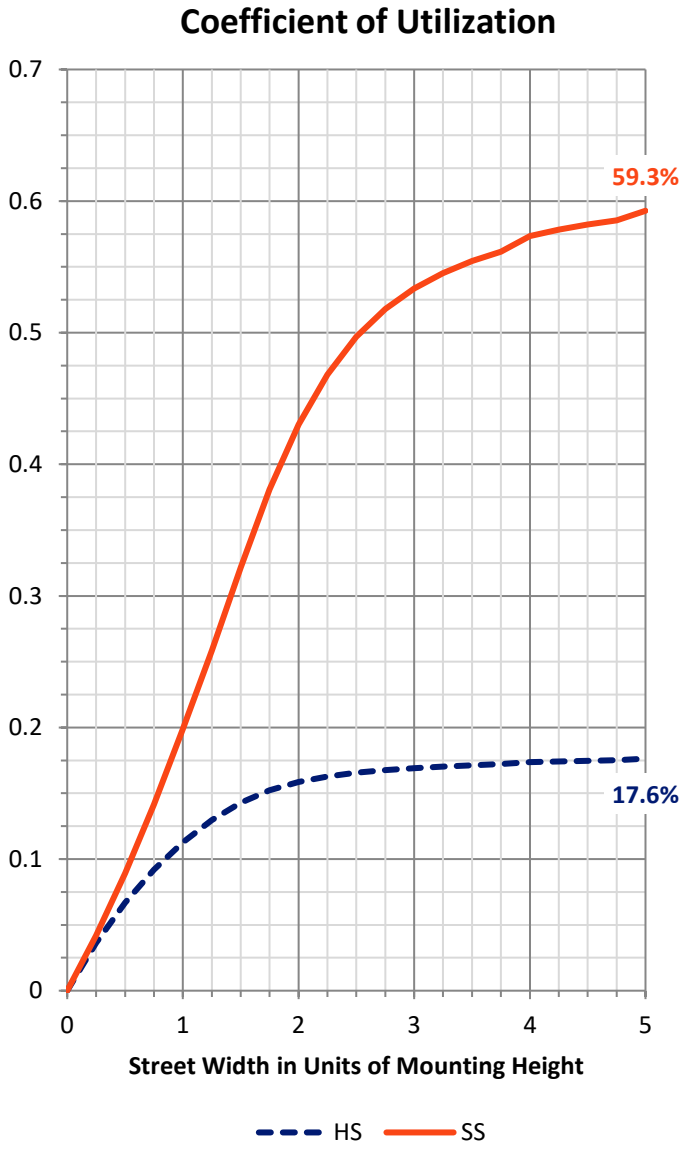
REPORT NUMBER: P1046185
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1560.3	582.9	2143.2
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	5272.6	1116.1	6388.7
	% Fixture	61.8	13.1	74.9
Total	Lumens	6833.0	1699.0	8532.0
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.1
10°-20°	47.0	0.6
20°-30°	102.0	1.2
30°-40°	203.8	2.4
40°-50°	441.2	5.2
50°-60°	1529.4	17.9
60°-70°	2572.5	30.2
70°-80°	1398.9	16.4
80°-90°	529.5	6.2
90°-100°	334.2	3.9
100°-110°	225.4	2.6
110°-120°	243.9	2.9
120°-130°	401.3	4.7
130°-140°	247.2	2.9
140°-150°	129.3	1.5
150°-160°	67.3	0.8
160°-170°	36.6	0.4
170°-180°	13.8	0.2
0°-90°	6833.0	80.1
0°-180°	8532.0	100.0



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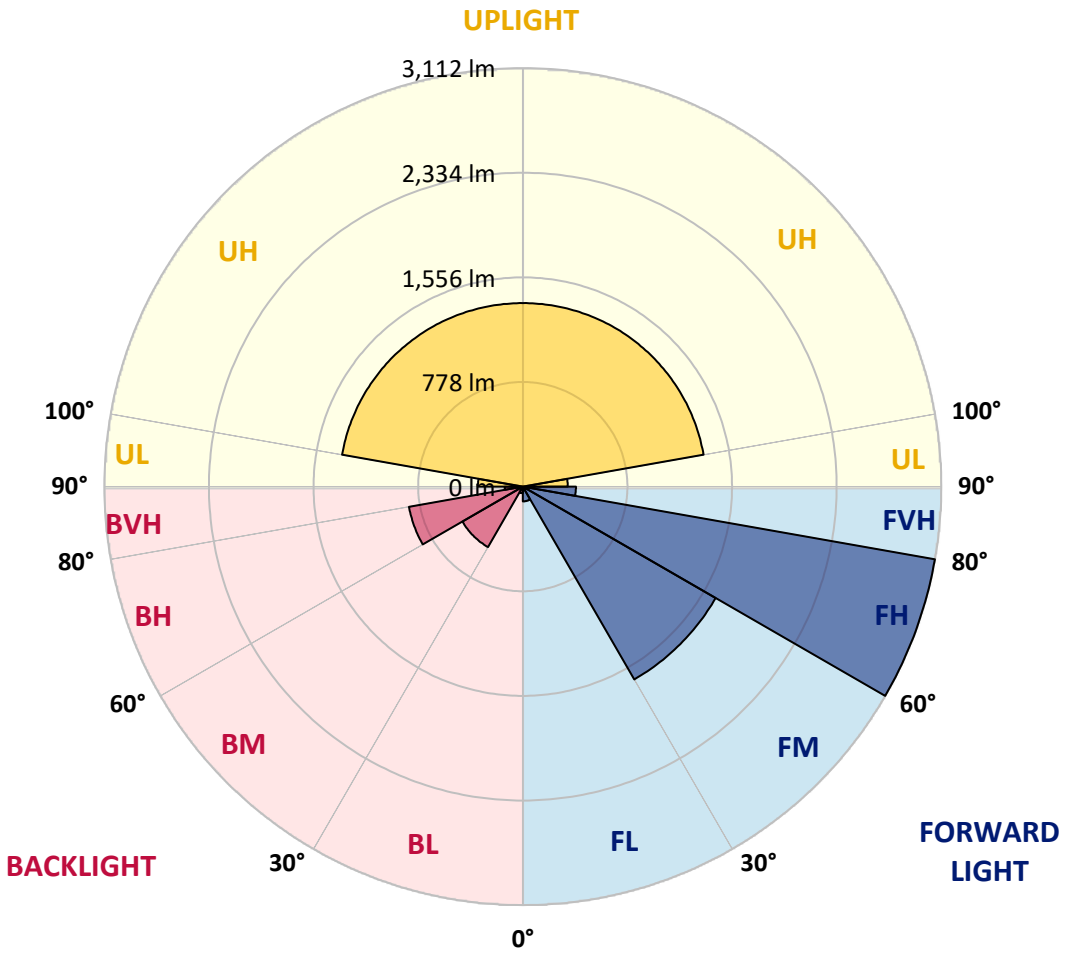
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	109.7	1.3			
FM	(30°-60°)	1655.8	19.4			
FH	(60°-80°)	3112.1	36.5			G2/5000
FVH	(80°-90°)	395.0	4.6			G3/500
BL	(0°-30°)	47.9	0.6	B0/110		
BM	(30°-60°)	518.7	6.1	B1/1000		
BH	(60°-80°)	859.3	10.1	B2/1000		G2/1000
BVH	(80°-90°)	134.5	1.6			G2/225
UL	(90°-100°)	334.2	3.9		U3/500	
UH	(100°-180°)	1364.8	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°	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
2.5°	59.6	59.6	59.6	61.3	62.5	63.1	61.3	60.2	59.6	59.0	57.2
5°	85.5	86.1	86.1	87.9	86.7	87.9	85.5	83.8	80.8	77.3	74.3
7.5°	120.9	120.9	120.3	120.9	120.3	118.0	118.0	119.7	115.0	107.9	101.4
10°	164.0	165.1	164.6	162.2	158.7	155.7	155.7	158.1	151.0	138.6	129.2
12.5°	207.6	210.0	207.6	208.2	202.3	199.9	195.2	194.0	184.6	172.8	156.3
15°	240.1	241.8	242.4	244.2	243.6	235.9	227.7	218.8	211.2	200.5	183.4
17.5°	266.0	266.6	267.8	267.2	263.6	256.0	246.5	237.1	224.7	213.5	197.6
20°	291.4	293.7	293.1	292.5	290.8	284.9	273.7	260.1	249.5	233.0	216.5
22.5°	317.3	315.6	316.7	316.1	316.1	310.2	298.4	282.5	268.4	251.9	237.1
25°	347.4	346.8	347.4	345.6	343.3	340.3	325.6	307.3	291.4	274.3	253.6
27.5°	379.3	379.8	380.4	377.5	374.5	369.8	348.6	330.3	313.2	292.0	263.1
30°	414.6	412.9	413.5	409.3	407.6	392.8	372.2	350.4	331.5	303.2	274.9
32.5°	447.1	444.1	443.5	440.0	437.1	415.8	394.6	373.4	350.9	322.0	297.3
35°	492.5	498.4	496.0	496.0	503.7	471.3	446.5	425.8	401.7	371.6	345.6
37.5°	677.7	676.5	669.4	660.0	633.5	610.5	599.3	566.8	527.9	494.9	453.6
40°	767.4	763.8	756.1	737.3	718.4	691.3	674.2	654.1	634.1	575.7	509.6
42.5°	788.6	785.6	787.4	809.8	834.6	814.5	747.9	675.3	640.0	600.4	567.4
45°	904.8	914.8	917.8	917.2	899.5	878.2	849.3	805.7	744.3	688.3	619.3
47.5°	1052.2	1051.1	1058.1	1048.7	1063.4	1026.3	989.1	943.7	880.0	803.9	721.3
50°	1438.0	1425.6	1427.4	1430.9	1408.5	1381.3	1347.7	1322.4	1197.9	1090.0	964.3
52.5°	2050.8	2052.6	2039.6	2039.0	1972.3	1919.9	1860.9	1863.2	1680.4	1535.3	1353.6
55°	2882.4	2883.6	2837.0	2875.4	2800.4	2793.4	2663.0	2494.9	2249.0	2051.4	1868.5
57.5°	3918.1	3953.5	3949.4	3881.0	3766.6	3704.6	3494.1	3317.7	2969.7	2659.5	2411.2
60°	4800.5	4784.0	4756.9	4705.0	4362.3	4218.4	4063.2	3912.8	3624.4	3195.0	2823.4
62.5°	5052.4	5040.0	5035.3	5009.3	4738.6	4501.5	4306.2	4060.3	3867.4	3446.3	3067.6
64°	5056.5	5067.7	5104.3	5042.3	4801.7	4548.7	4346.4	4095.1	3907.5	3492.3	3097.1
65°	5047.1	5044.7	5090.7	5012.3	4798.7	4546.3	4321.6	4080.9	3895.1	3479.9	3089.5
67.5°	4794.0	4784.0	4843.0	4742.1	4555.7	4328.1	4107.5	3849.1	3685.8	3287.0	2909.0
70°	3934.1	3933.5	4025.5	3941.1	3885.7	3644.5	3419.2	3182.1	3007.5	2680.1	2364.0
72.5°	3014.5	3009.2	3070.6	3007.5	2979.2	2865.3	2654.8	2445.4	2279.0	2033.7	1777.7
75°	2402.3	2404.7	2372.2	2310.3	2287.3	2236.6	2142.8	2017.8	1878.6	1655.6	1419.7
77.5°	1798.9	1787.1	1801.3	1714.6	1708.1	1692.8	1692.2	1612.0	1494.0	1351.9	1164.9
80°	1199.1	1206.2	1231.5	1208.5	1215.0	1209.7	1242.7	1157.8	1068.2	984.4	884.7
82.5°	775.6	794.5	801.6	833.4	861.1	873.5	828.1	742.6	686.5	655.9	611.6
85°	744.3	752.0	747.9	729.0	719.6	704.2	703.7	676.5	647.6	588.6	516.7
87.5°	686.5	695.4	691.9	675.3	654.1	652.3	648.2	629.3	615.8	569.2	505.5
90°	585.7	586.3	589.2	586.3	582.1	579.2	555.6	544.4	536.1	496.0	453.0
92.5°	507.8	514.9	513.1	507.8	494.3	502.5	477.2	455.9	451.2	423.5	390.5
95°	466.5	471.3	472.4	463.0	450.0	447.1	427.6	411.1	403.4	385.1	345.0
97.5°	386.9	384.0	381.6	379.3	370.4	361.0	348.6	327.9	321.4	301.4	279.0
100°	330.3	331.5	330.3	328.5	320.9	316.1	307.3	290.8	283.7	270.7	255.4
102.5°	315.0	315.6	315.6	316.1	303.2	292.5	283.1	271.3	264.8	253.6	238.9
105°	300.8	300.8	302.0	302.6	289.6	274.3	260.7	254.2	251.3	238.3	223.0
107.5°	283.1	282.5	284.3	276.6	263.6	257.2	243.0	235.3	234.2	224.1	208.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	309.1	302.6	*301.4*	282.5	264.8	250.1	243.0	235.9	231.8	218.2	208.2
112.5°	404.6	395.8	*393.4*	375.7	313.8	308.5	302.0	299.6	297.3	279.0	261.9
115°	445.9	445.9	*453.0*	445.9	402.8	353.9	346.8	336.2	340.3	317.9	293.1
117.5°	356.8	381.6	*388.7*	367.5	369.2	338.0	289.6	273.1	264.8	258.3	269.5
120°	400.5	417.0	*409.9*	371.0	353.3	335.0	337.4	331.5	302.0	261.3	265.4
122.5°	596.9	612.2	*617.5*	620.5	628.7	616.4	588.6	549.7	520.2	471.3	443.5
125°	835.8	824.6	*823.4*	828.7	835.2	819.3	807.5	799.8	781.5	717.2	627.0
127.5°	767.4	762.0	*770.9*	769.7	785.6	758.5	753.2	757.3	750.2	714.3	661.8
130°	550.3	559.7	*566.2*	587.5	618.7	594.5	572.1	538.5	536.1	553.8	526.1
132.5°	461.8	466.0	*477.8*	505.5	529.1	519.0	486.0	453.6	451.2	466.0	463.6
135°	408.2	411.1	*412.9*	414.1	409.9	419.4	412.3	400.5	392.8	393.4	386.3
137.5°	364.5	365.7	*364.5*	355.1	343.9	342.1	359.8	360.4	353.3	340.9	331.5
140°	316.1	316.1	*311.4*	304.9	303.2	303.8	313.8	315.6	307.3	297.3	283.1
142.5°	247.1	244.2	*244.8*	255.4	274.3	270.1	257.2	240.6	238.3	250.1	245.4
145°	267.2	266.6	*264.8*	265.4	260.7	253.0	248.3	243.0	233.6	225.9	218.2
147.5°	269.5	267.2	*268.4*	266.0	263.6	260.1	258.3	260.7	258.3	253.0	243.0
150°	212.9	214.1	*215.3*	212.3	214.7	215.9	214.7	212.9	215.9	209.4	205.3
152.5°	166.3	165.7	*165.1*	166.3	165.7	168.1	168.7	168.1	166.9	166.3	159.8
155°	156.3	158.1	*156.9*	153.4	155.7	157.5	159.8	161.6	159.8	156.9	151.0
157.5°	143.9	143.9	*143.9*	143.9	144.5	145.1	148.0	149.2	149.2	147.5	143.3
160°	133.9	134.5	*134.5*	134.5	135.7	136.8	138.6	139.8	141.0	139.8	137.4
162.5°	128.0	127.4	*127.4*	128.0	128.0	129.8	131.5	133.9	134.5	133.3	133.3
165°	124.5	124.5	*124.5*	125.0	126.2	127.4	129.8	130.3	130.9	132.1	132.1
167.5°	128.6	128.6	*128.6*	129.2	130.3	132.1	133.3	134.5	136.8	137.4	137.4
170°	135.1	135.1	*135.1*	135.7	136.2	136.8	137.4	138.6	139.2	140.4	139.8
172.5°	141.6	141.0	*141.6*	141.6	141.6	141.6	141.6	142.1	142.7	142.7	142.7
175°	148.6	148.6	*149.2*	148.6	147.5	147.5	147.5	148.0	148.0	148.0	147.5
177.5°	155.7	155.7	*155.1*	155.7	155.1	154.5	153.9	153.4	152.2	152.2	151.0
180°	151.6	151.6	*151.6*	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
2.5°	56.0	53.7	50.7	47.2	43.6	41.3	38.9	36.0	34.2	33.6	33.6
5°	70.8	69.0	66.1	61.3	58.4	53.1	48.4	45.4	42.5	39.5	37.2
7.5°	99.1	98.5	100.3	103.8	99.1	86.7	73.7	66.6	67.2	70.8	72.5
10°	124.5	120.9	121.5	129.8	122.1	98.5	80.8	74.3	77.9	84.9	86.1
12.5°	151.0	145.7	141.6	139.8	122.7	96.1	80.2	72.5	74.3	80.2	80.2
15°	175.2	168.7	159.3	146.9	126.8	103.2	83.8	72.5	72.5	72.0	70.8
17.5°	188.7	181.7	164.6	145.1	123.3	102.0	82.0	70.8	64.9	60.2	59.6
20°	210.0	206.4	184.6	156.9	126.8	99.7	79.0	67.8	61.3	57.8	56.6
22.5°	230.6	220.6	192.3	164.0	129.8	99.1	77.9	67.2	61.3	58.4	57.2
25°	241.8	229.4	201.1	172.2	133.9	99.7	79.0	68.4	61.9	59.0	58.4
27.5°	250.7	237.7	211.2	179.9	139.2	102.0	82.6	70.2	63.1	59.6	59.0
30°	262.5	250.1	223.0	189.3	143.9	107.3	86.7	73.1	64.9	61.3	60.8
32.5°	284.9	269.5	237.7	197.6	149.8	112.7	92.0	77.9	67.8	62.5	62.5
35°	331.5	315.0	272.5	220.0	156.3	116.8	95.6	80.8	70.2	64.3	63.7
37.5°	429.4	408.7	356.8	275.4	172.2	122.7	99.7	82.6	71.4	66.1	64.9
40°	476.6	438.2	379.8	307.9	198.8	132.1	106.2	86.7	73.1	66.6	66.1
42.5°	533.8	501.9	421.7	316.1	220.6	153.9	117.4	92.6	76.7	67.8	67.2
45°	589.8	558.6	487.2	384.6	265.4	188.2	135.7	102.6	82.0	70.8	69.0
47.5°	687.7	636.4	550.9	450.0	326.8	238.3	166.9	116.8	90.8	74.3	72.0
50°	930.1	896.5	765.6	611.0	425.3	310.2	227.1	149.8	100.9	76.7	73.1
52.5°	1254.5	1190.8	1042.2	852.9	616.9	460.6	332.1	222.4	123.9	79.0	74.3
55°	1768.3	1669.2	1498.1	1170.2	885.3	698.3	519.6	365.1	188.7	84.3	74.9
57.5°	2317.4	2227.7	2023.7	1617.3	1199.7	889.4	684.2	515.5	264.8	96.1	81.4
60°	2684.8	2528.5	2295.6	1902.7	1450.4	1045.7	765.6	540.9	274.9	98.5	84.9
62.5°	2895.4	2733.8	2389.3	1938.1	1495.2	1080.5	801.0	495.4	219.4	95.6	88.5
64°	*2920.2*	*2764.5*	*2390.5*	*1904.5*	*1447.4*	*1044.6*	*776.2*	*464.8*	*190.5*	*94.4*	*90.2*
65°	2900.7	2756.8	2361.6	1864.4	1383.1	998.0	746.7	434.1	169.3	93.2	90.8
67.5°	2711.4	2585.2	2171.1	1691.0	1229.8	861.7	612.8	333.8	132.7	90.8	89.7
70°	2195.9	2138.1	1784.8	1364.2	972.0	687.1	483.1	255.4	112.7	88.5	87.3
72.5°	1647.4	1574.2	1331.8	1041.0	757.3	534.4	366.9	196.4	99.7	86.1	84.9
75°	1320.6	1249.2	1055.8	819.8	563.3	399.3	271.3	146.9	93.8	85.5	84.3
77.5°	1091.7	1034.5	868.2	624.0	400.5	286.1	199.4	119.7	92.0	86.1	84.9
80°	839.9	830.5	678.3	454.2	283.7	213.5	161.0	112.1	92.6	88.5	87.3
82.5°	589.2	565.6	478.9	338.0	245.4	195.2	154.5	113.8	97.3	93.8	93.2
85°	485.4	467.1	409.9	325.0	233.6	188.7	152.8	116.8	102.0	99.1	97.9
87.5°	480.1	460.1	405.8	310.8	221.8	179.9	145.7	113.8	101.4	99.7	100.9
90°	435.9	421.1	371.0	286.7	220.0	182.8	152.2	125.6	112.7	106.8	105.6
92.5°	381.6	372.8	337.4	278.4	228.3	193.5	165.7	139.2	127.4	123.9	122.1
95°	333.2	329.7	300.8	253.0	210.6	182.3	156.9	133.9	123.9	119.1	118.6
97.5°	273.1	269.0	246.5	215.3	184.0	160.4	141.6	123.9	116.8	116.2	115.6
100°	249.5	246.5	230.6	210.6	185.8	168.1	151.6	136.8	130.9	130.9	131.5
102.5°	230.6	228.8	214.7	194.0	174.6	158.1	144.5	130.9	123.9	123.9	119.7
105°	215.3	212.3	199.4	182.8	162.8	147.5	134.5	124.5	116.8	114.4	114.4
107.5°	201.7	198.2	187.6	171.6	156.9	142.1	130.3	120.9	115.6	113.8	113.8

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

Scaled Data Report

REPORT NUMBER: P1046185
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	202.3	199.4	187.0	169.9	156.3	145.1	135.7	126.8	122.1	118.6	118.6
112.5°	248.9	236.5	214.7	189.3	174.0	159.3	144.5	132.1	126.2	125.0	123.9
115°	281.9	269.5	242.4	209.4	181.7	161.0	146.3	136.8	131.5	135.1	136.8
117.5°	283.1	260.7	208.8	192.9	172.8	155.7	145.7	139.8	136.2	139.8	139.8
120°	288.4	243.0	215.3	208.8	185.2	161.0	149.8	148.6	145.1	138.0	138.0
122.5°	428.8	387.5	343.3	287.2	238.3	215.3	195.2	160.4	143.9	136.2	135.7
125°	591.0	547.9	478.9	404.0	333.2	259.5	192.9	164.6	147.5	138.0	136.2
127.5°	628.2	594.5	503.7	414.1	313.8	241.8	193.5	169.3	152.2	142.1	140.4
130°	506.7	480.1	418.8	345.6	276.0	223.5	188.7	164.6	148.0	138.0	135.7
132.5°	450.6	425.8	365.7	299.0	244.8	204.1	172.8	149.2	132.7	125.6	125.6
135°	376.9	359.8	306.1	266.6	227.7	193.5	162.8	141.0	127.4	123.3	123.3
137.5°	323.2	309.7	271.3	240.1	210.0	180.5	153.9	136.2	126.8	122.7	122.1
140°	276.6	267.8	245.4	214.7	185.8	156.9	136.2	126.2	122.1	120.3	119.7
142.5°	240.6	234.2	214.1	182.3	153.9	136.2	128.6	125.6	121.5	117.4	116.8
145°	210.6	205.3	182.3	164.0	150.4	143.3	137.4	128.6	118.6	113.2	112.7
147.5°	236.5	228.3	208.2	187.0	165.1	148.6	135.7	123.9	114.4	110.9	110.9
150°	203.5	197.6	185.2	168.7	150.4	135.1	123.9	116.2	112.7	112.1	112.1
152.5°	158.1	155.1	151.6	143.3	131.5	121.5	114.4	110.9	112.1	114.4	115.0
155°	148.6	147.5	143.9	136.2	128.6	119.1	113.2	111.5	113.2	115.6	116.2
157.5°	141.6	141.0	138.0	130.9	123.9	118.0	113.8	112.7	114.4	116.2	116.2
160°	135.7	135.1	130.9	125.6	120.3	116.2	113.2	113.2	115.0	116.2	116.2
162.5°	132.1	131.5	128.6	124.5	120.9	118.6	118.0	118.0	118.6	119.1	119.1
165°	132.1	131.5	128.6	125.0	122.7	122.7	123.9	124.5	122.7	121.5	122.1
167.5°	137.4	136.2	132.7	129.8	129.2	129.8	131.5	131.5	130.3	128.6	128.0
170°	139.2	138.6	137.4	136.2	136.2	136.2	136.8	137.4	137.4	138.0	138.0
172.5°	142.7	142.7	142.1	142.1	142.7	142.1	142.1	143.3	144.5	145.1	145.7
175°	147.5	146.9	147.5	147.5	148.0	147.5	146.9	148.0	149.8	151.0	151.0
177.5°	151.0	151.0	150.4	149.8	149.8	149.8	149.8	150.4	150.4	150.4	149.8
180°	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6

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

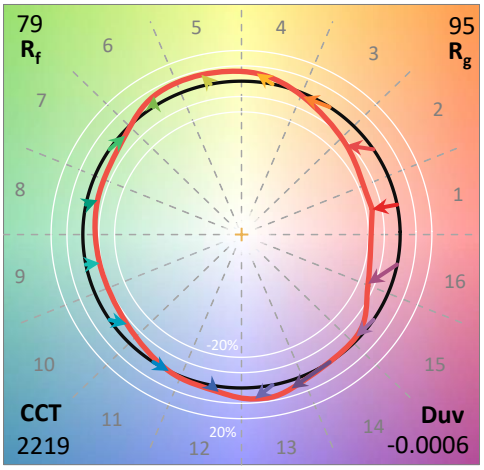
Test Information

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

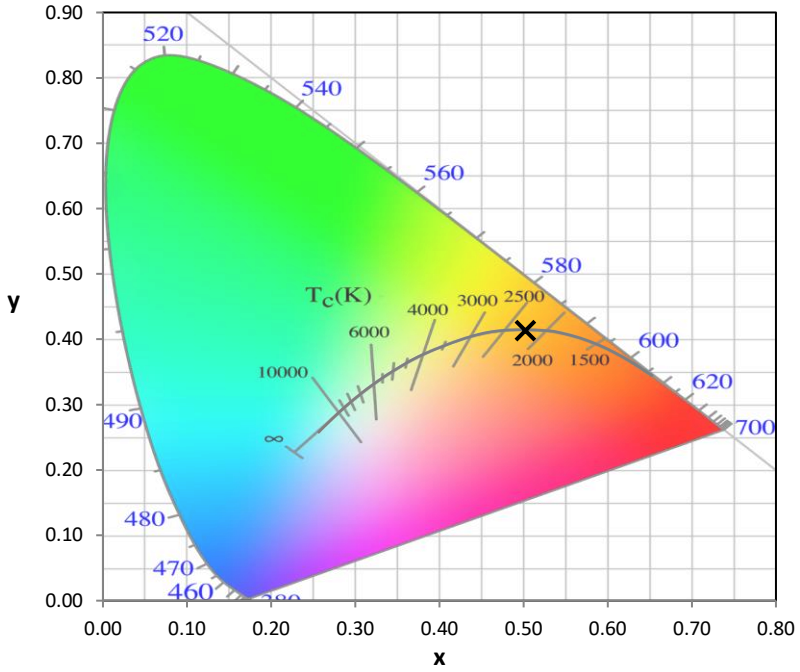
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

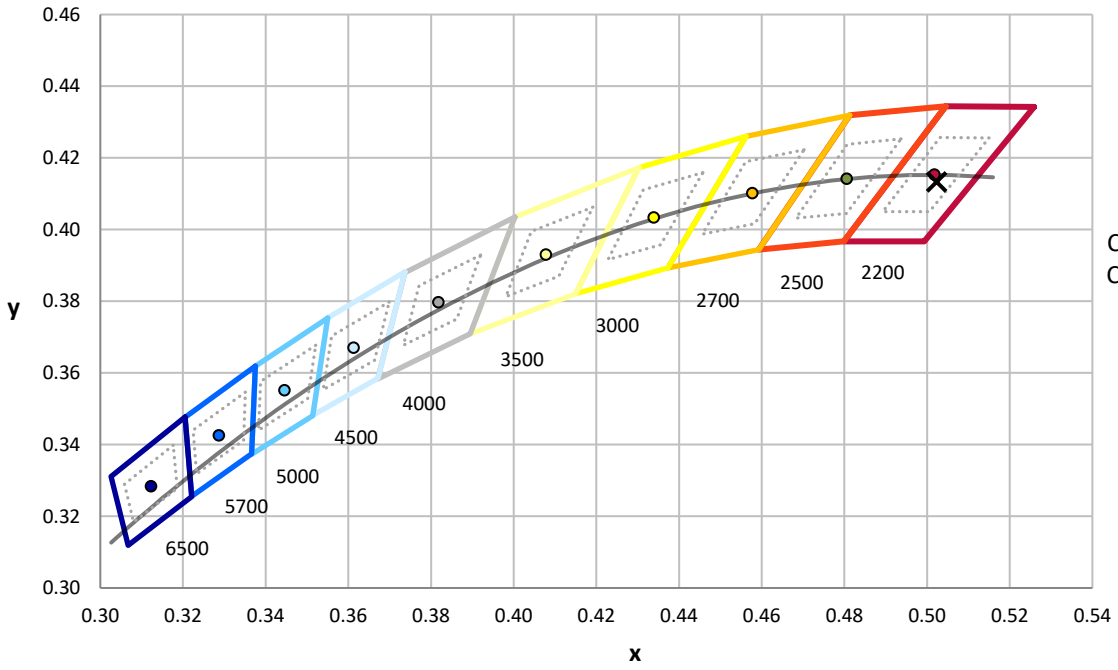
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

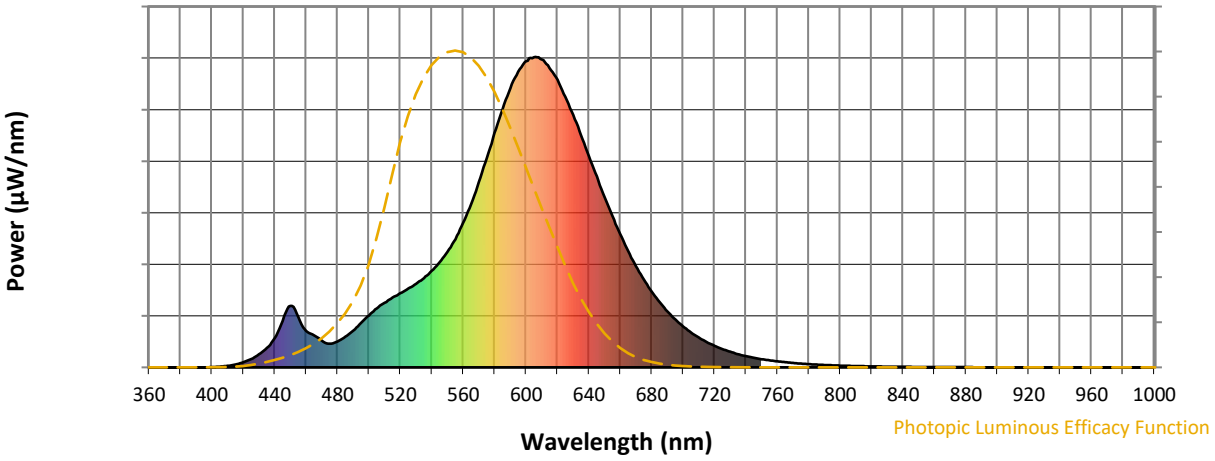


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

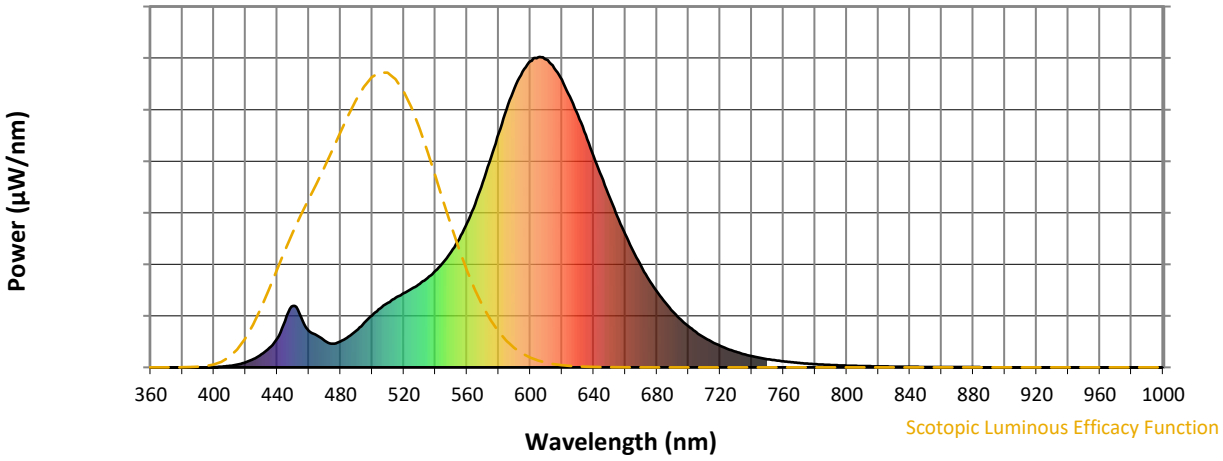


Photopic Lumens: NR

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

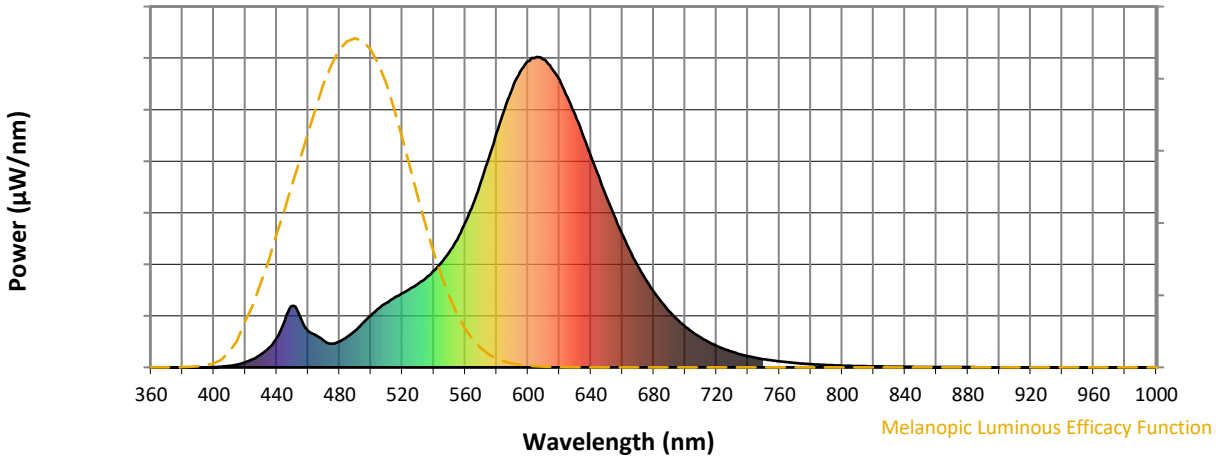


Scotopic Lumens: NR **S/P: 0.94**

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			

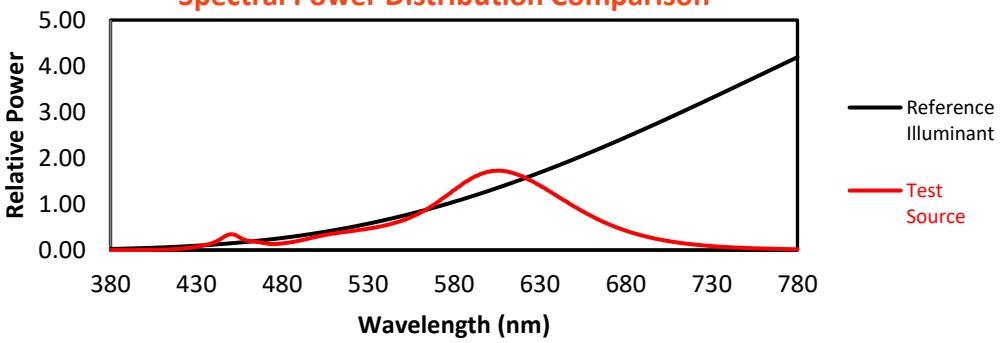
REPORT NUMBER: SP1-2501-332-2

TM-30-18

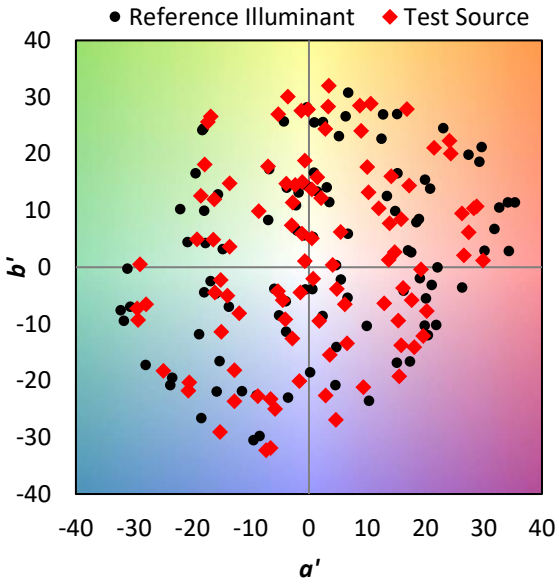
Summary

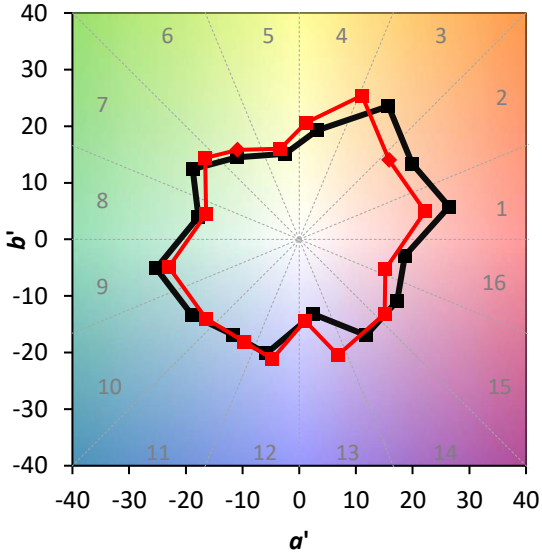
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

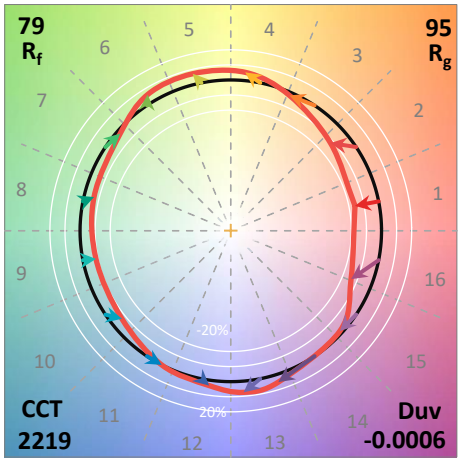
Spectral Power Distribution Comparison

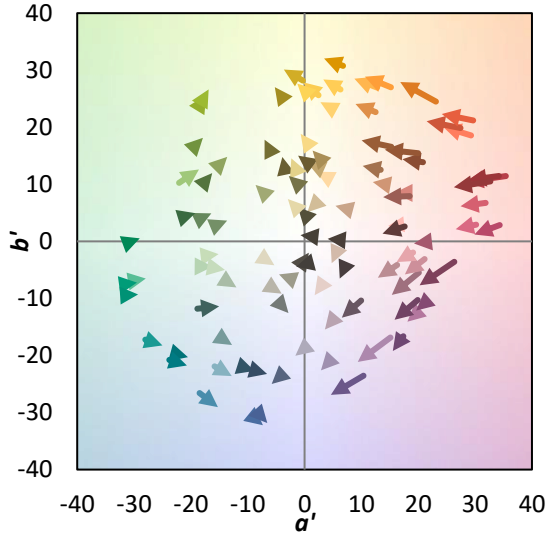


Color Vector Graphics







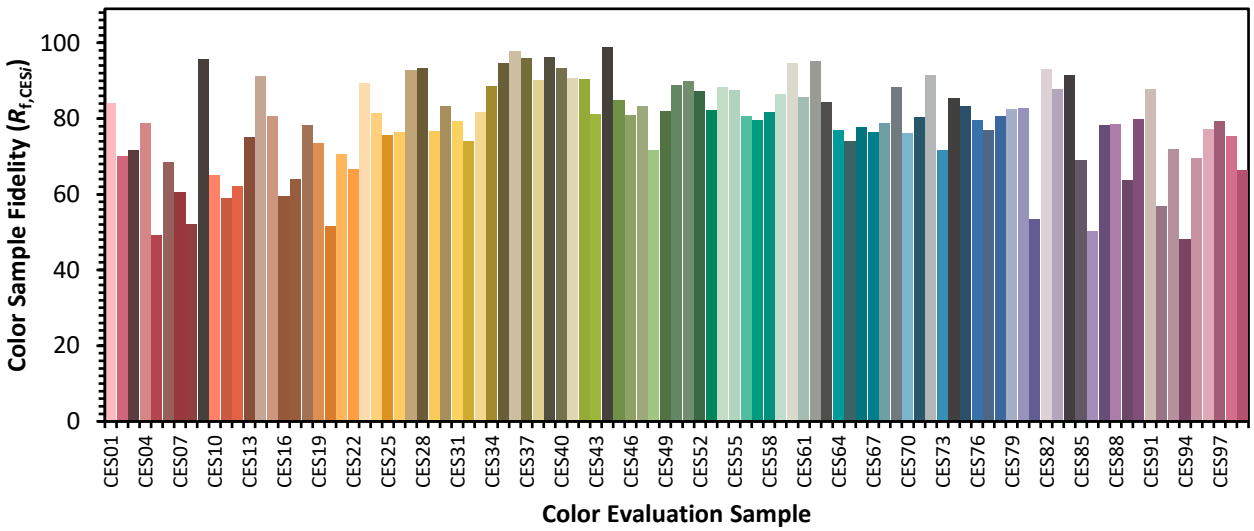


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

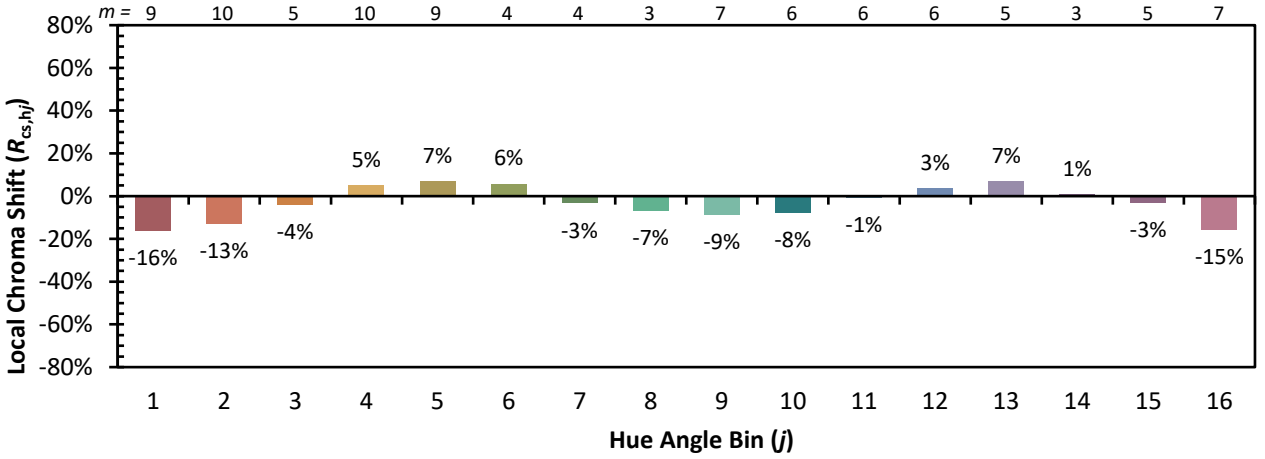
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

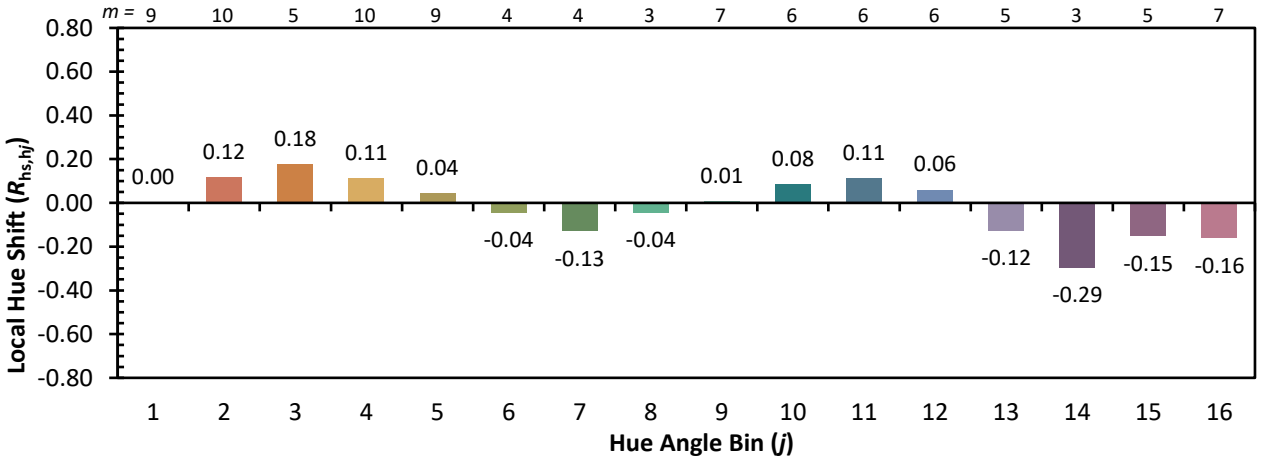


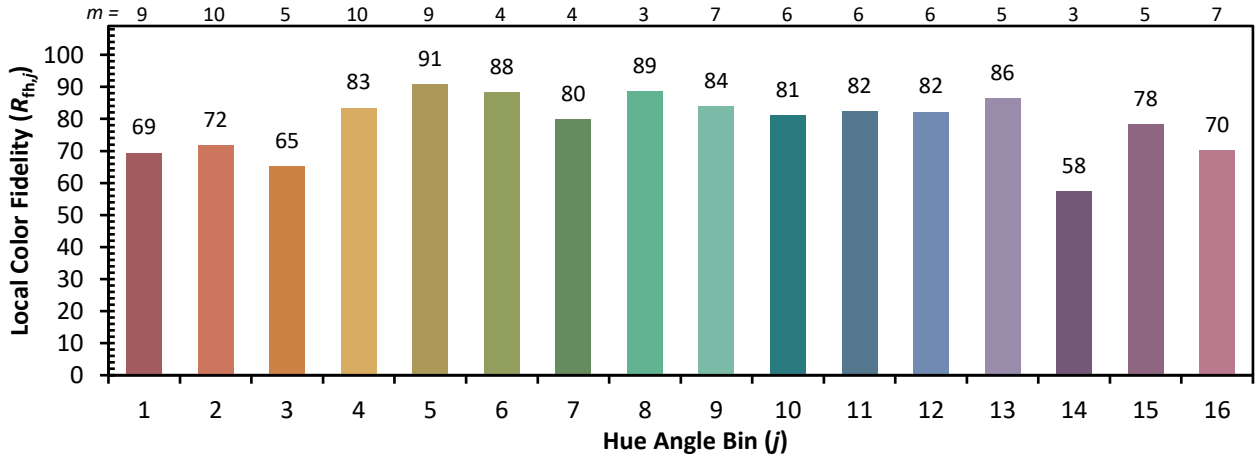
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Color Rendition by Hue-Angle Bin



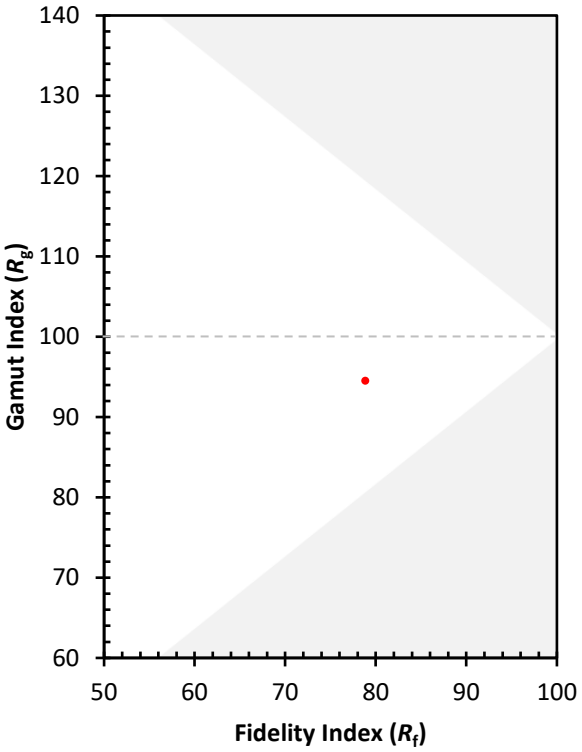


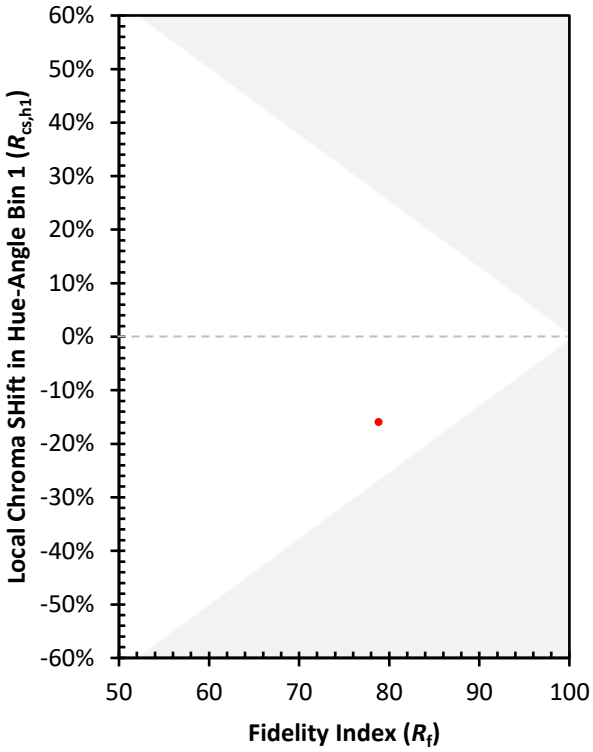


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Measure Comparisons





(END OF REPORT)