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: P1046426

Luminaire Tested: **FFX-CLB-90-730-U-FR-T4-UPLR**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046426
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-90-730-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13690.2 lumens
Efficiency:	N/A
Efficacy:	151.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U5 - G4

Input Watts (W):	90.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	5.42%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

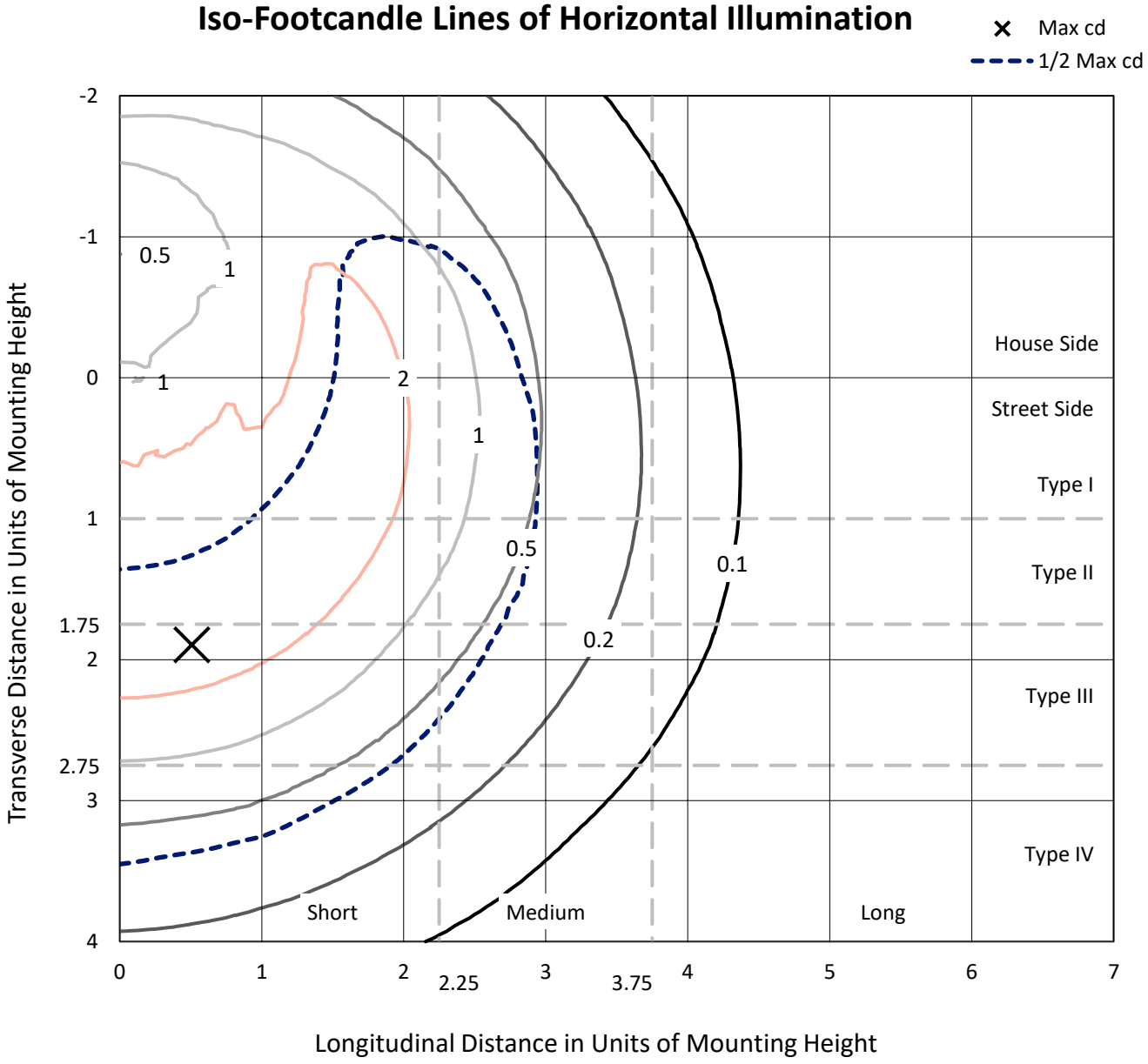


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Iso-Footcandle Lines of Horizontal Illumination



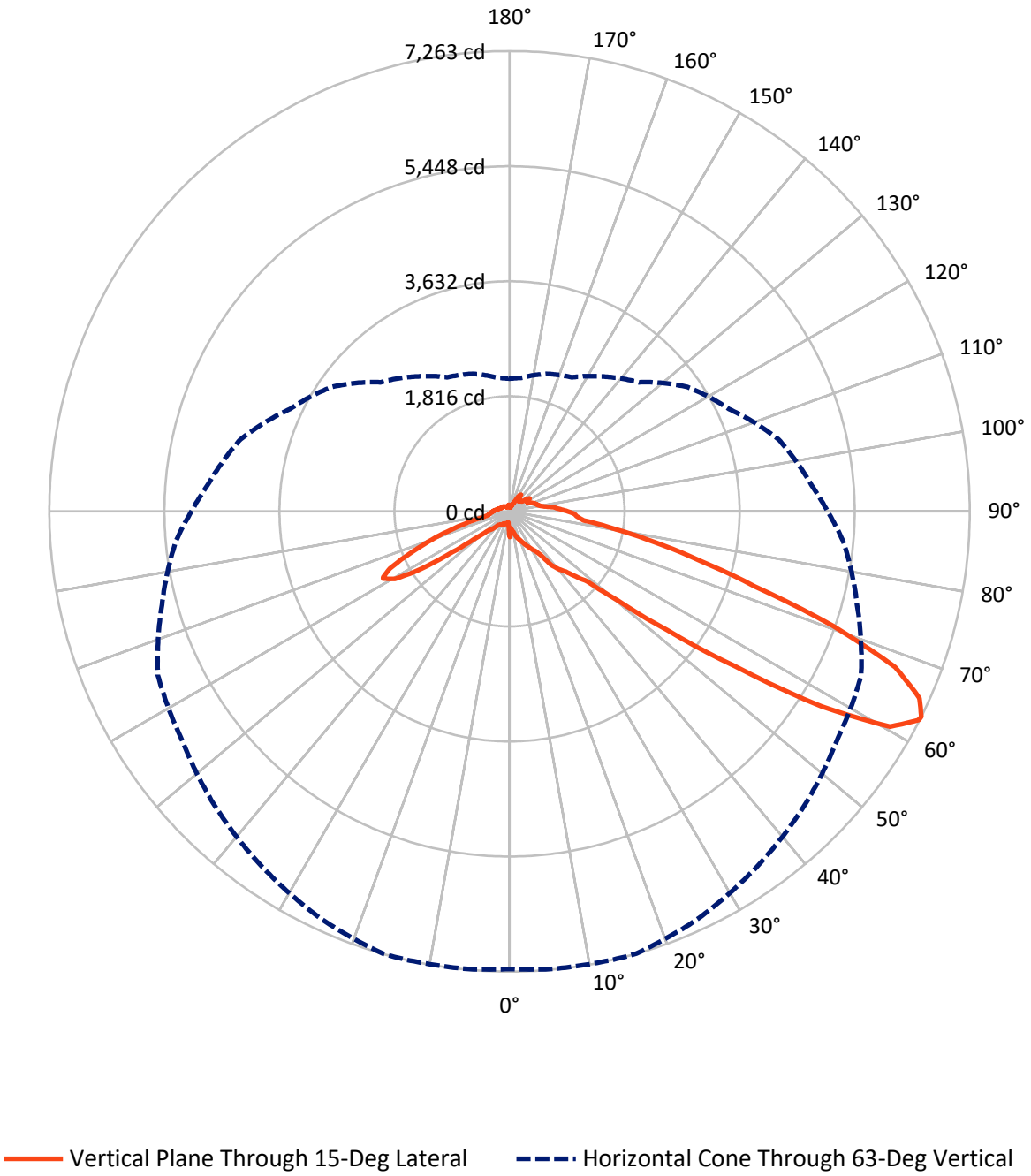
Based on 15 foot mounting height. Maximum calculated value = 4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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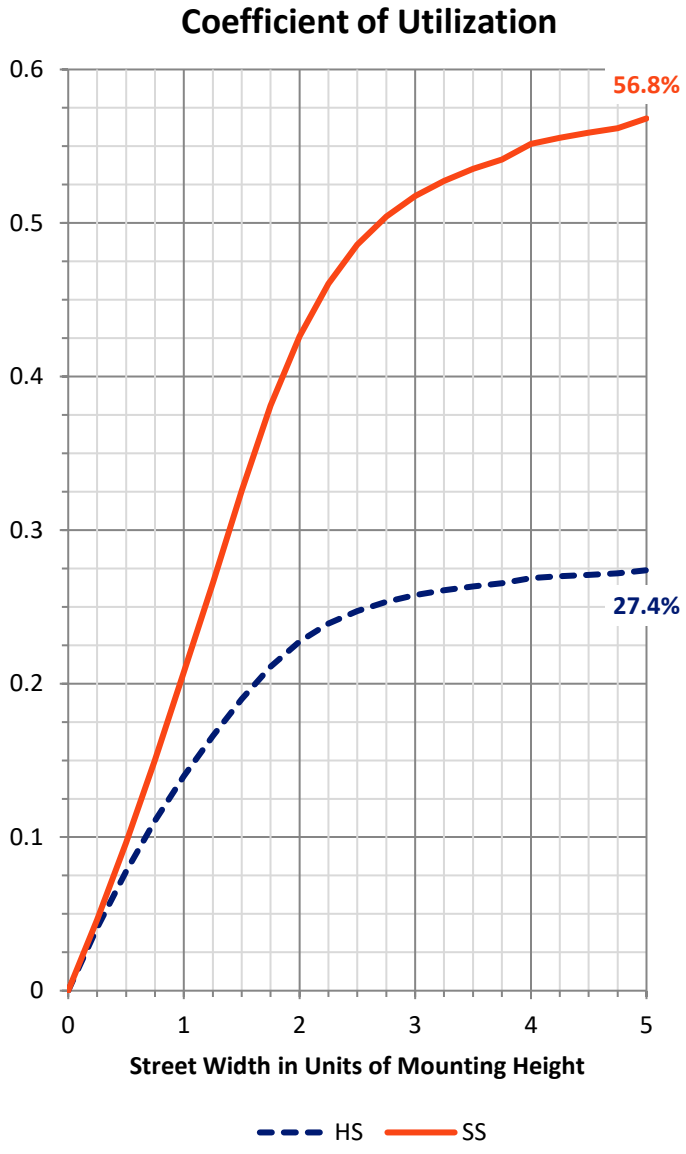
REPORT NUMBER: P1046426
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3871.8	630.8	4502.6
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	8107.0	1080.6	9187.5
	% Fixture	59.2	7.9	67.1
Total	Lumens	11978.7	1711.4	13690.2
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	0.2
10°-20°	89.7	0.7
20°-30°	194.2	1.4
30°-40°	399.3	2.9
40°-50°	823.3	6.0
50°-60°	2708.3	19.8
60°-70°	4484.1	32.8
70°-80°	2351.9	17.2
80°-90°	903.1	6.6
90°-100°	545.5	4.0
100°-110°	343.6	2.5
110°-120°	254.4	1.9
120°-130°	216.6	1.6
130°-140°	141.2	1.0
140°-150°	122.8	0.9
150°-160°	56.2	0.4
160°-170°	23.0	0.2
170°-180°	8.0	0.1
0°-90°	11978.7	87.5
0°-180°	13690.2	100.0



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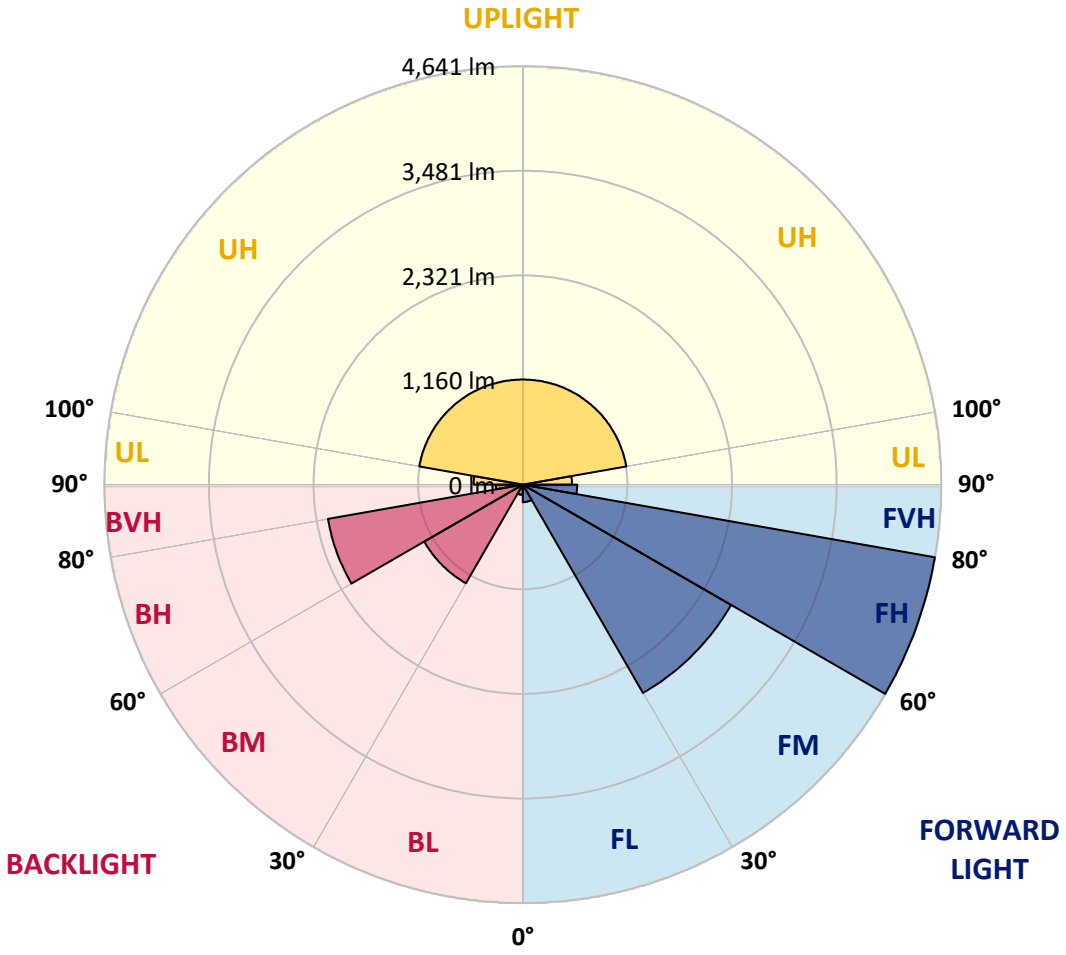
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	194.8	1.4			
FM	(30°-60°)	2667.6	19.5			
FH	(60°-80°)	4641.2	33.9			G2/5000
FVH	(80°-90°)	603.4	4.4			G4/750
BL	(0°-30°)	113.9	0.8	B1/500		
BM	(30°-60°)	1263.2	9.2	B2/2500		
BH	(60°-80°)	2194.9	16.0	B3/2500		G3/2500
BVH	(80°-90°)	299.7	2.2			G3/500
UL	(90°-100°)	545.5	4.0		U4/1000	
UH	(100°-180°)	1165.9	8.5		U5	

BUG Rating: B3-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3
2.5°	248.9	248.9	284.8	291.1	325.3	336.0	317.2	302.8	337.8	409.7	421.4
5°	270.4	275.8	274.9	274.0	275.8	308.2	341.4	326.2	267.8	212.9	212.9
7.5°	306.4	308.2	307.3	306.4	294.7	275.8	267.8	292.0	307.3	261.5	219.2
10°	331.5	329.7	328.8	328.0	329.7	336.9	334.2	304.6	274.9	259.7	250.7
12.5°	379.2	380.1	377.4	375.6	373.8	371.1	368.4	374.7	358.5	314.5	284.8
15°	415.1	415.1	422.3	420.5	420.5	411.5	398.9	381.0	359.4	347.7	321.7
17.5°	452.8	453.7	452.8	452.8	449.2	437.6	424.1	407.9	385.5	365.7	343.2
20°	489.7	489.7	488.8	487.9	487.0	478.0	460.9	439.4	418.7	399.8	376.5
22.5°	528.3	531.0	532.8	531.0	528.3	519.3	500.5	479.8	460.0	433.1	407.9
25°	583.1	584.0	582.2	580.4	576.8	565.2	550.8	529.2	505.0	476.2	443.0
27.5°	635.2	637.0	636.1	636.1	628.9	619.1	604.7	575.9	549.0	515.7	481.6
30°	694.5	692.7	688.2	689.1	684.7	676.6	660.4	635.2	601.1	561.6	523.8
32.5°	752.9	752.9	746.6	744.0	744.0	733.2	715.2	689.1	656.8	614.6	577.7
35°	816.7	832.9	849.1	855.4	855.4	840.1	818.5	784.4	756.5	712.5	666.7
37.5°	1123.1	1113.2	1073.7	1078.2	1064.7	1058.4	1044.0	1015.3	976.7	909.3	839.2
40°	1230.9	1229.1	1199.5	1195.9	1189.6	1168.9	1153.7	1133.9	1120.4	1039.6	934.4
42.5°	1249.8	1259.7	1299.2	1309.1	1360.3	1328.9	1267.8	1156.4	1128.5	1067.4	1023.4
45°	1461.8	1465.4	1465.4	1467.2	1453.8	1430.4	1422.3	1351.3	1295.6	1207.6	1124.9
47.5°	1673.0	1681.1	1649.6	1674.8	1709.8	1662.2	1640.6	1582.2	1505.9	1437.6	1301.9
50°	2163.6	2195.0	2201.3	2202.2	2217.5	2213.9	2181.5	2100.7	2024.3	1868.0	1717.0
52.5°	3071.9	3102.5	3116.0	3083.6	3036.0	3014.4	3022.5	2989.3	2812.3	2644.3	2337.9
55°	4258.0	4311.0	4311.0	4345.1	4330.7	4228.3	4222.0	4004.6	3718.9	3532.0	3265.1
57.5°	5844.7	5764.7	5809.7	5858.2	5759.3	5651.5	5490.7	5263.4	4845.6	4523.0	4136.7
60°	7020.8	6988.5	6899.5	6844.7	6597.6	6383.8	6257.1	6090.9	5773.7	5349.6	4833.0
62.5°	7236.5	7259.8	7253.5	7253.5	7055.9	6799.8	6543.7	6300.2	6103.5	5666.8	5258.0
63°	7223.0	7251.7	7263.4	7259.8	7081.9	6829.4	6575.2	6306.5	6124.1	5678.5	5283.1
65°	7108.0	7132.2	7111.6	7104.4	6992.1	6821.4	6535.6	6269.7	6103.5	5626.4	5286.7
67.5°	6646.2	6640.8	6563.5	6598.5	6527.6	6432.3	6165.5	5903.1	5788.1	5267.0	4954.3
70°	5367.6	5329.9	5414.3	5464.6	5387.4	5349.6	5032.5	4860.0	4711.7	4315.5	4063.0
72.5°	4103.4	4025.3	4039.6	4085.4	3988.4	3962.4	3826.7	3684.7	3613.7	3366.7	3086.3
75°	3217.5	3175.3	3097.1	3109.7	3029.7	3003.7	2989.3	2948.0	2920.1	2714.3	2436.7
77.5°	2406.2	2404.4	2338.8	2328.9	2271.4	2314.5	2297.4	2359.4	2346.0	2182.4	1971.3
80°	1683.8	1673.9	1691.0	1684.7	1671.2	1696.4	1669.4	1703.5	1703.5	1596.6	1507.7
82.5°	1098.9	1118.6	1172.5	1185.1	1204.9	1264.2	1168.9	1118.6	1105.1	1093.5	1050.3
85°	1090.8	1096.2	1072.8	1075.5	1066.5	1044.0	1061.1	1069.2	1055.7	991.0	895.8
87.5°	1027.9	1035.1	1016.2	1021.6	988.3	995.5	1006.3	1012.6	1006.3	948.8	869.7
90°	866.1	874.2	891.3	891.3	894.0	895.8	878.7	888.6	882.3	827.5	770.0
92.5°	768.2	775.4	776.3	777.2	770.0	793.4	765.5	748.4	744.0	699.9	658.6
95°	702.6	694.5	692.7	694.5	690.9	690.0	672.1	659.5	654.1	619.1	578.6
97.5°	549.9	554.4	552.6	557.1	548.1	547.2	531.9	515.7	510.3	481.6	454.6
100°	482.5	481.6	483.4	484.3	478.9	472.6	461.8	450.1	443.9	422.3	396.2
102.5°	452.8	451.9	455.5	456.4	451.9	447.4	438.5	431.3	425.9	406.1	377.4
105°	434.0	431.3	435.8	435.8	425.9	423.2	416.9	416.0	412.4	389.0	361.2
107.5°	407.9	403.4	408.8	407.9	404.3	401.6	396.2	392.6	389.9	370.2	338.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	383.7	377.4	*380.1*	381.9	384.6	382.8	378.3	371.1	363.9	347.7	321.7
112.5°	338.7	342.3	*341.4*	341.4	344.1	345.0	336.9	332.4	328.0	315.4	298.3
115°	321.7	321.7	*321.7*	321.7	314.5	311.8	303.7	298.3	297.4	282.1	271.3
117.5°	308.2	310.0	*314.5*	317.2	326.2	320.8	302.8	291.1	286.6	280.3	268.6
120°	363.0	356.7	*350.4*	349.5	350.4	346.8	343.2	335.1	324.4	307.3	274.9
122.5°	389.0	372.9	*375.6*	374.7	368.4	371.1	372.0	372.9	365.7	338.7	288.4
125°	326.2	321.7	*324.4*	327.1	328.0	327.1	325.3	333.3	323.5	314.5	276.7
127.5°	260.6	258.8	*253.4*	252.5	250.7	251.6	251.6	254.3	245.3	236.3	234.5
130°	248.0	244.4	*245.3*	246.2	245.3	239.9	236.3	231.8	230.9	221.9	209.3
132.5°	224.6	226.4	*241.7*	243.5	254.3	248.0	229.1	216.5	218.3	222.8	218.3
135°	210.2	209.3	*221.0*	221.9	238.1	233.6	218.3	204.0	204.0	214.7	210.2
137.5°	214.7	216.5	*217.4*	218.3	217.4	216.5	215.6	209.3	204.9	204.0	193.2
140°	230.9	230.0	*221.0*	221.9	221.0	221.0	226.4	230.9	215.6	202.2	184.2
142.5°	241.7	244.4	*240.8*	245.3	253.4	246.2	237.2	225.5	216.5	207.6	196.8
145°	328.0	321.7	*319.0*	317.2	311.8	296.5	287.5	275.8	265.1	250.7	232.7
147.5°	297.4	299.2	*293.8*	295.6	288.4	283.0	281.2	282.1	278.5	270.4	251.6
150°	236.3	238.1	*232.7*	230.0	227.3	227.3	227.3	229.1	224.6	219.2	210.2
152.5°	165.3	163.5	*161.7*	160.8	159.0	157.2	157.2	158.1	153.6	151.8	144.7
155°	151.8	150.9	*143.8*	142.0	143.8	145.6	146.5	143.8	140.2	136.6	126.7
157.5°	118.6	115.9	*115.0*	116.8	116.8	115.9	114.1	115.9	112.3	111.4	109.6
160°	97.0	96.1	*97.0*	97.0	97.9	97.9	97.0	97.0	95.2	96.1	96.1
162.5°	82.7	82.7	*82.7*	81.8	83.6	84.5	83.6	83.6	84.5	87.2	89.0
165°	71.0	71.0	*71.9*	71.9	72.8	72.8	73.7	74.6	76.4	82.7	88.1
167.5°	66.5	66.5	*67.4*	67.4	68.3	69.2	71.0	74.6	80.0	87.2	89.8
170°	65.6	65.6	*65.6*	65.6	66.5	67.4	71.0	76.4	82.7	87.2	84.5
172.5°	68.3	68.3	*69.2*	69.2	69.2	72.8	75.5	80.0	83.6	84.5	81.8
175°	71.0	70.1	*71.0*	71.0	71.9	74.6	78.2	80.0	81.8	82.7	83.6
177.5°	69.2	69.2	*69.2*	70.1	70.1	71.0	72.8	73.7	75.5	77.3	80.0
180°	67.4	67.4	*67.4*	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3
2.5°	421.4	409.7	319.0	273.1	311.8	387.3	394.4	341.4	265.1	184.2	168.0
5°	224.6	237.2	265.1	264.2	246.2	230.0	210.2	197.7	218.3	209.3	214.7
7.5°	203.1	191.4	195.9	229.1	223.7	169.8	153.6	150.0	168.0	209.3	204.9
10°	247.1	243.5	230.0	203.1	194.1	201.3	207.6	203.1	186.9	162.6	159.0
12.5°	279.4	274.9	276.7	293.8	273.1	226.4	200.4	192.3	201.3	237.2	244.4
15°	310.9	302.8	291.1	266.9	247.1	234.5	219.2	203.1	208.5	198.6	195.0
17.5°	332.4	319.9	295.6	277.6	257.9	241.7	228.2	211.1	199.5	196.8	197.7
20°	361.2	347.7	321.7	301.0	276.7	255.2	231.8	213.8	202.2	197.7	197.7
22.5°	394.4	378.3	348.6	319.9	292.9	265.1	237.2	217.4	206.7	202.2	200.4
25°	429.5	413.3	376.5	345.9	311.8	281.2	252.5	227.3	215.6	210.2	205.8
27.5°	465.4	445.7	408.8	371.1	334.2	298.3	267.8	241.7	225.5	216.5	217.4
30°	505.0	488.8	447.4	404.3	358.5	316.3	286.6	257.0	237.2	227.3	228.2
32.5°	558.0	531.9	482.5	433.1	388.1	341.4	303.7	269.5	248.0	241.7	242.6
35°	646.0	612.8	552.6	485.2	425.0	370.2	322.6	282.1	257.0	247.1	246.2
37.5°	805.1	760.1	690.9	611.9	524.7	435.8	358.5	296.5	265.1	248.9	246.2
40°	882.3	821.2	734.1	665.8	606.5	530.1	442.1	348.6	278.5	257.9	255.2
42.5°	985.6	934.4	821.2	688.2	609.2	545.4	483.4	423.2	336.0	282.1	272.2
45°	1085.4	1039.6	950.6	820.3	702.6	602.9	510.3	444.8	390.8	336.0	331.5
47.5°	1253.4	1204.9	1056.6	940.7	816.7	703.5	606.5	498.7	428.6	389.9	389.9
50°	1674.8	1585.8	1439.4	1261.5	1062.0	878.7	741.3	609.2	524.7	466.3	463.6
52.5°	2263.3	2137.5	1921.9	1725.1	1489.7	1277.7	1063.8	833.8	710.7	626.2	625.4
55°	3113.3	2984.8	2696.4	2318.1	2029.7	1776.3	1554.4	1301.9	1107.8	971.3	960.5
57.5°	4019.9	3912.0	3618.2	3148.3	2693.7	2245.3	1976.7	1775.4	1682.0	1586.7	1567.0
60°	4607.5	4422.4	4154.6	3706.3	3266.0	2694.6	2361.2	2130.3	2098.9	2078.2	2052.2
62.5°	4977.7	4759.3	4361.3	3824.0	3419.7	2878.8	2580.5	2334.3	2260.6	2150.1	2118.6
63°	*5019.9*	*4782.7*	*4394.5*	*3821.3*	*3424.2*	*2881.5*	*2596.6*	*2334.3*	*2248.0*	*2115.1*	*2094.4*
65°	5000.1	4780.0	4392.7	3765.6	3319.9	2828.5	2549.9	2227.4	2089.9	1913.8	1878.7
67.5°	4698.2	4463.7	4098.9	3482.6	3080.0	2578.7	2272.3	1930.0	1721.5	1549.0	1508.6
70°	3824.9	3679.3	3358.6	2825.8	2520.3	2129.4	1860.8	1592.1	1366.6	1185.1	1139.3
72.5°	2914.7	2762.0	2521.2	2175.3	1949.7	1681.1	1426.8	1220.2	1034.2	913.8	917.4
75°	2312.7	2167.2	1968.6	1741.3	1557.1	1318.1	1066.5	861.7	729.6	657.7	651.4
77.5°	1862.6	1761.9	1588.5	1379.2	1220.2	970.4	746.6	567.8	469.9	428.6	416.9
80°	1435.8	1365.7	1236.3	1052.1	886.8	682.0	508.5	401.6	349.5	314.5	308.2
82.5°	1021.6	979.4	871.5	743.1	630.7	523.8	445.7	375.6	321.7	292.0	283.0
85°	852.7	813.1	744.9	664.9	593.0	514.8	432.2	357.6	307.3	283.9	272.2
87.5°	827.5	790.7	725.1	639.7	561.6	477.1	393.5	323.5	287.5	265.1	257.9
90°	741.3	713.4	655.9	577.7	499.6	413.3	340.5	291.1	263.3	245.3	237.2
92.5°	638.8	614.6	566.9	501.4	435.8	373.8	318.1	276.7	248.9	230.9	224.6
95°	555.3	540.0	500.5	444.8	397.1	345.9	298.3	258.8	230.0	213.8	207.6
97.5°	443.0	425.0	396.2	357.6	321.7	285.7	250.7	223.7	203.1	192.3	186.9
100°	385.5	373.8	347.7	317.2	286.6	255.2	228.2	207.6	194.1	185.1	180.6
102.5°	363.0	354.9	330.6	300.1	271.3	240.8	213.8	195.0	185.1	177.0	173.4
105°	342.3	336.0	317.2	289.3	261.5	228.2	197.7	181.5	172.5	167.1	164.4
107.5°	320.8	313.6	295.6	268.6	244.4	215.6	188.7	168.9	157.2	150.9	150.0

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

Scaled Data Report

REPORT NUMBER: P1046426
CATALOG NUMBER: FFX-CLB-90-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	302.8	297.4	277.6	256.1	232.7	205.8	182.4	161.7	148.3	141.1	140.2
112.5°	283.9	277.6	257.9	237.2	217.4	194.1	173.4	155.4	142.9	135.7	134.8
115°	258.8	253.4	239.0	219.2	203.1	180.6	163.5	147.4	137.5	130.3	129.4
117.5°	261.5	246.2	226.4	208.5	194.1	177.9	162.6	150.0	134.8	126.7	126.7
120°	265.1	250.7	230.9	215.6	207.6	195.0	171.6	153.6	133.0	124.9	124.0
122.5°	261.5	263.3	252.5	237.2	221.0	199.5	170.7	150.9	130.3	124.0	124.9
125°	253.4	261.5	246.2	225.5	204.0	183.3	159.0	141.1	128.5	124.0	123.1
127.5°	229.1	227.3	207.6	192.3	177.0	159.9	144.7	133.9	124.9	119.5	116.8
130°	202.2	201.3	193.2	180.6	165.3	150.0	136.6	129.4	120.4	113.2	111.4
132.5°	212.9	210.2	193.2	172.5	155.4	142.9	133.9	125.8	113.2	105.1	104.2
135°	201.3	199.5	182.4	161.7	146.5	140.2	133.9	122.2	106.9	100.6	99.7
137.5°	184.2	177.0	162.6	150.0	142.9	141.1	133.0	119.5	105.1	97.9	97.0
140°	175.2	169.8	159.0	150.9	142.9	133.0	121.3	108.7	98.8	93.4	92.5
142.5°	186.0	184.2	168.0	153.6	141.1	129.4	116.8	108.7	97.9	90.7	89.8
145°	220.1	211.1	191.4	171.6	160.8	145.6	129.4	112.3	92.5	81.8	79.1
147.5°	240.8	232.7	212.9	191.4	168.0	143.8	118.6	97.0	81.8	73.7	71.9
150°	199.5	195.9	183.3	163.5	143.8	121.3	100.6	85.4	75.5	70.1	70.1
152.5°	140.2	139.3	133.9	122.2	109.6	97.0	86.3	77.3	71.9	68.3	68.3
155°	124.0	122.2	118.6	107.8	98.8	88.1	80.0	74.6	71.0	68.3	68.3
157.5°	106.9	105.1	104.2	96.1	89.0	81.8	75.5	71.0	68.3	66.5	65.6
160°	95.2	92.5	89.8	85.4	80.9	77.3	74.6	71.0	68.3	66.5	66.5
162.5°	89.0	87.2	82.7	79.1	77.3	77.3	78.2	76.4	71.0	68.3	67.4
165°	89.0	86.3	80.0	76.4	76.4	80.9	85.4	81.8	77.3	71.9	71.0
167.5°	89.8	88.1	81.8	79.1	81.8	87.2	91.6	90.7	84.5	80.0	80.0
170°	83.6	82.7	83.6	86.3	89.0	89.8	91.6	90.7	92.5	98.8	98.8
172.5°	80.9	81.8	86.3	90.7	96.1	96.1	91.6	90.7	98.8	107.8	109.6
175°	84.5	86.3	90.7	96.1	100.6	100.6	96.1	97.0	105.1	113.2	115.0
177.5°	80.9	81.8	83.6	82.7	84.5	80.0	81.8	80.0	82.7	82.7	82.7
180°	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4

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: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

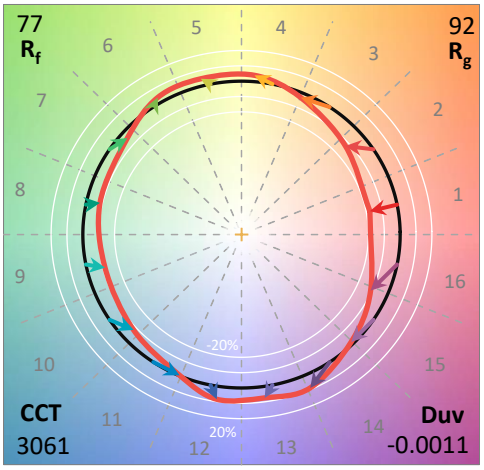
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-4
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-100-730-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3061
CIE u':	0.2489
CIE v':	0.5187
Duv:	-0.0011
CIE x:	0.4312
CIE y:	0.3995
CIE z:	0.1693
Peak Wavelength (nm):	592
Dominant Wavelength (nm):	582
Purity:	49.32381
Rf:	76.8
Rg:	92.2

CRI (Ra):	71.7
R1:	67.8
R2:	85.0
R3:	92.9
R4:	66.0
R5:	68.5
R6:	80.2
R7:	74.5
R8:	39.0
R9:	-40.3
R10:	67.2
R11:	61.6
R12:	59.9
R13:	71.4
R14:	96.3
R15:	58.8



Test Conditions

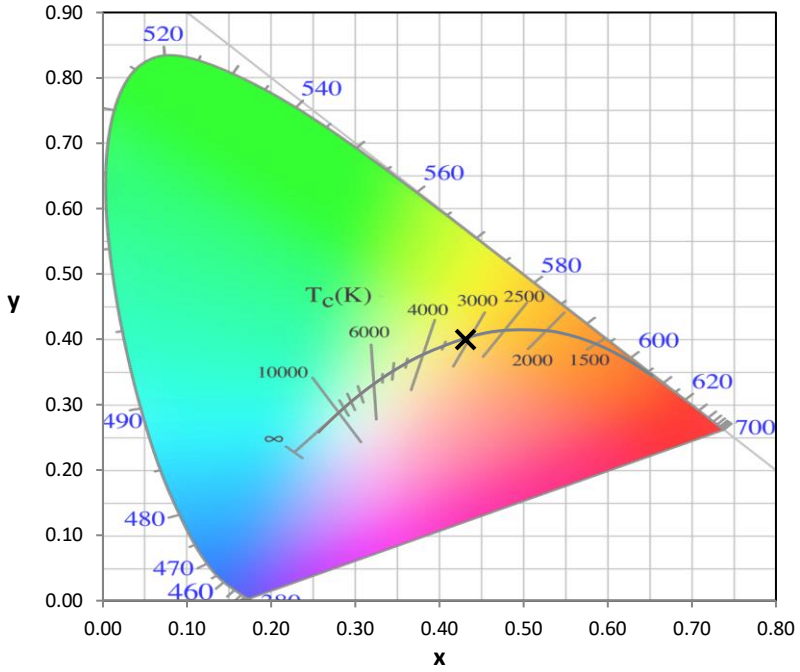
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

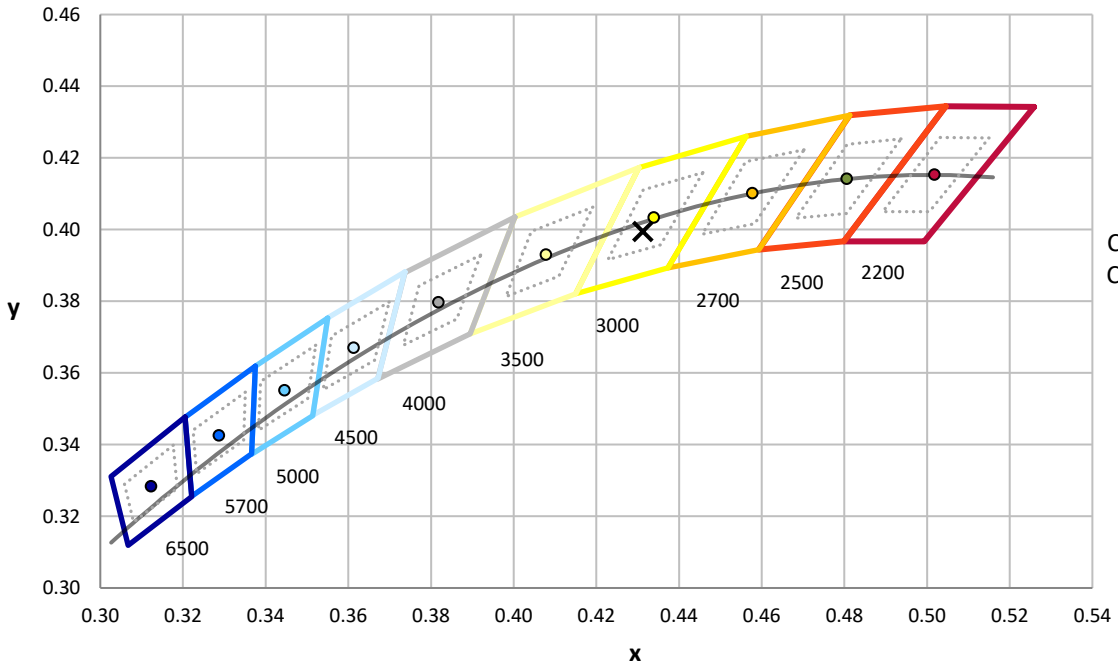
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



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

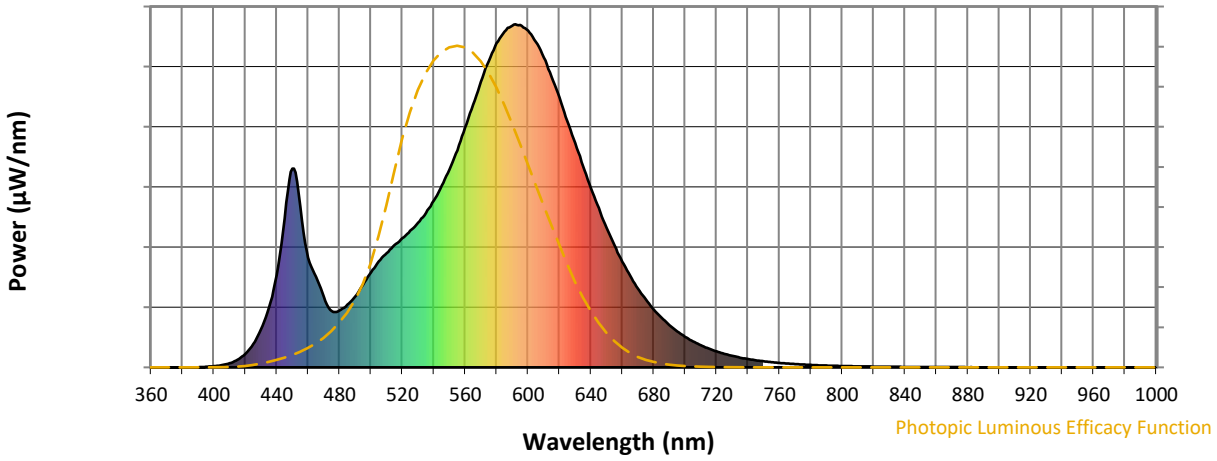


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

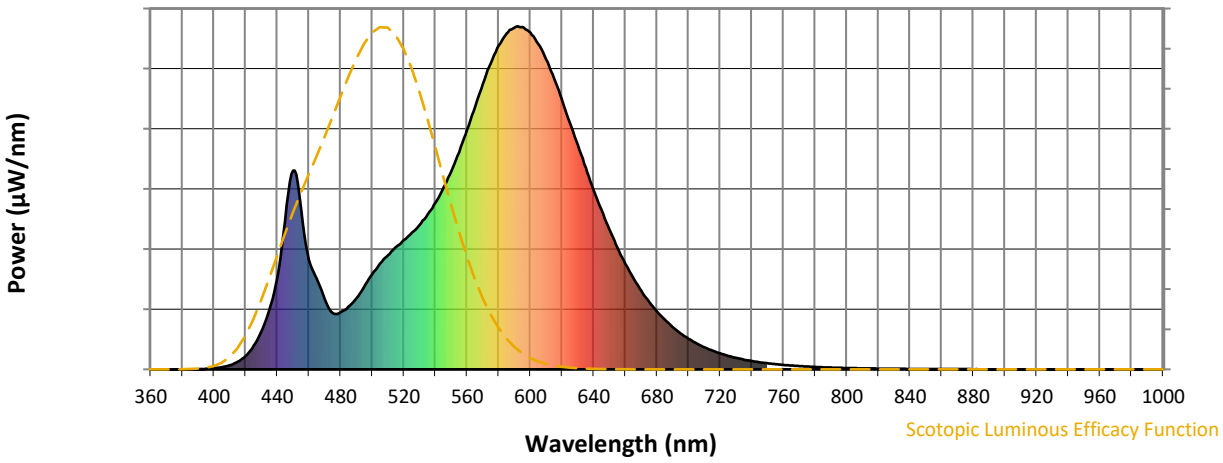


Photopic Lumens: NR

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

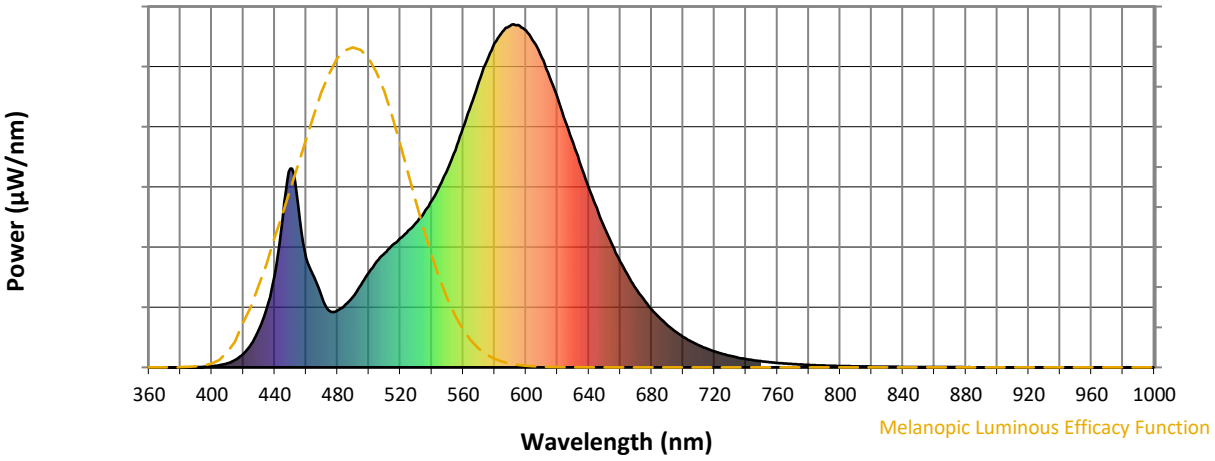


Scotopic Lumens: NR **S/P: 1.29**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

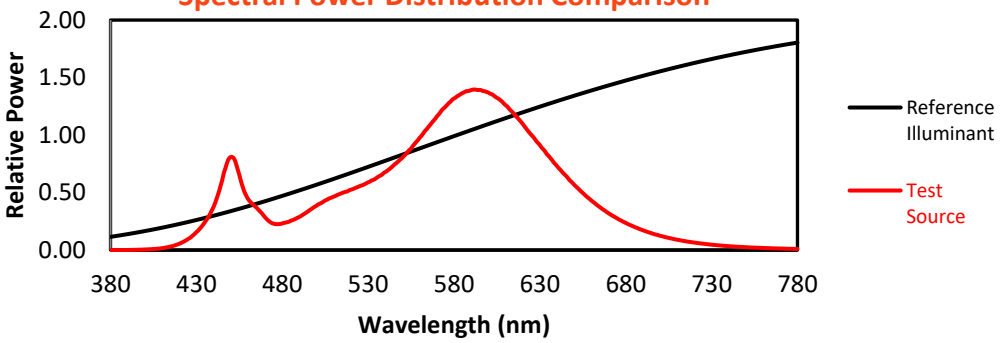
REPORT NUMBER: SP1-2501-332-4

TM-30-18

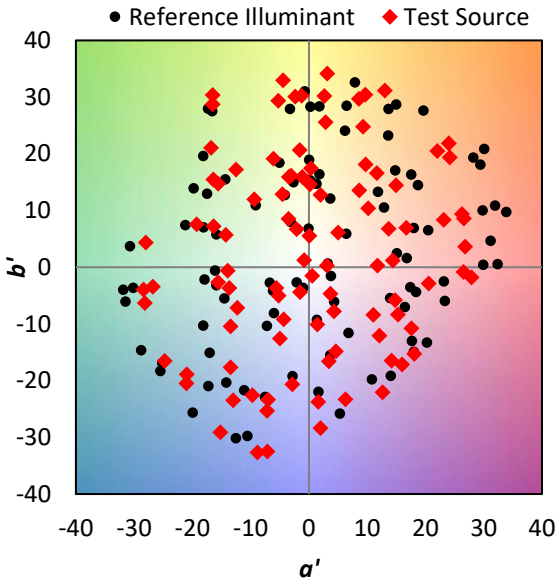
Summary

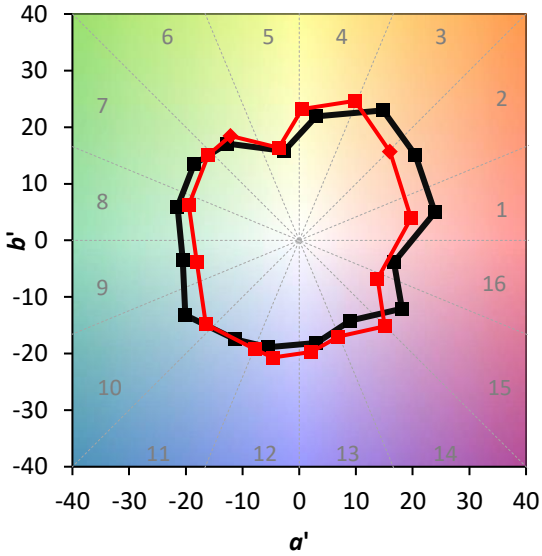
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

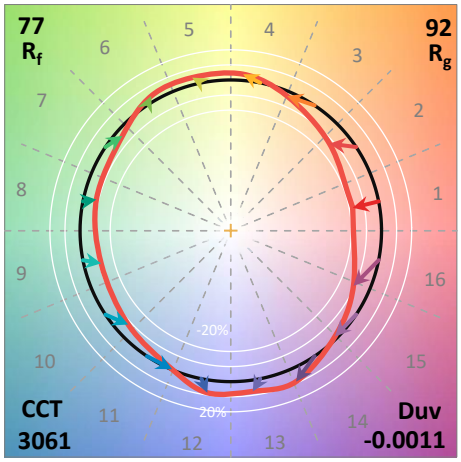
Spectral Power Distribution Comparison

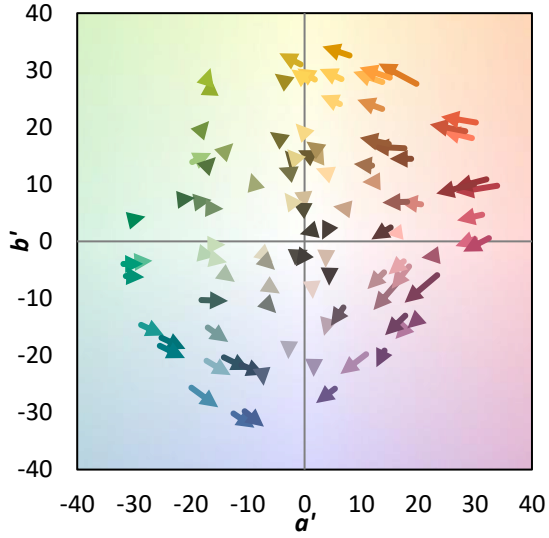


Color Vector Graphics







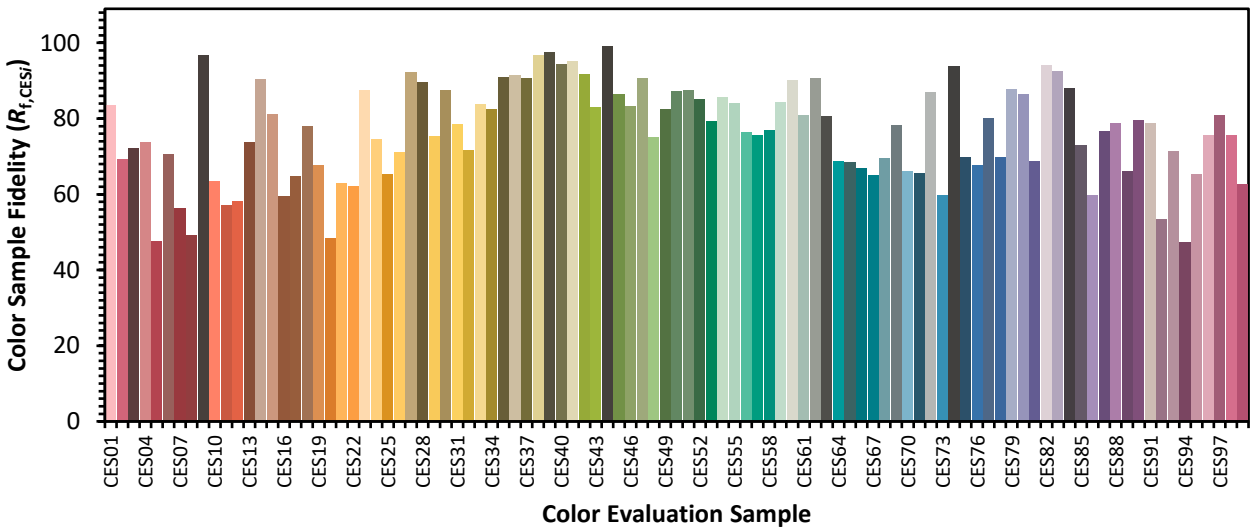


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

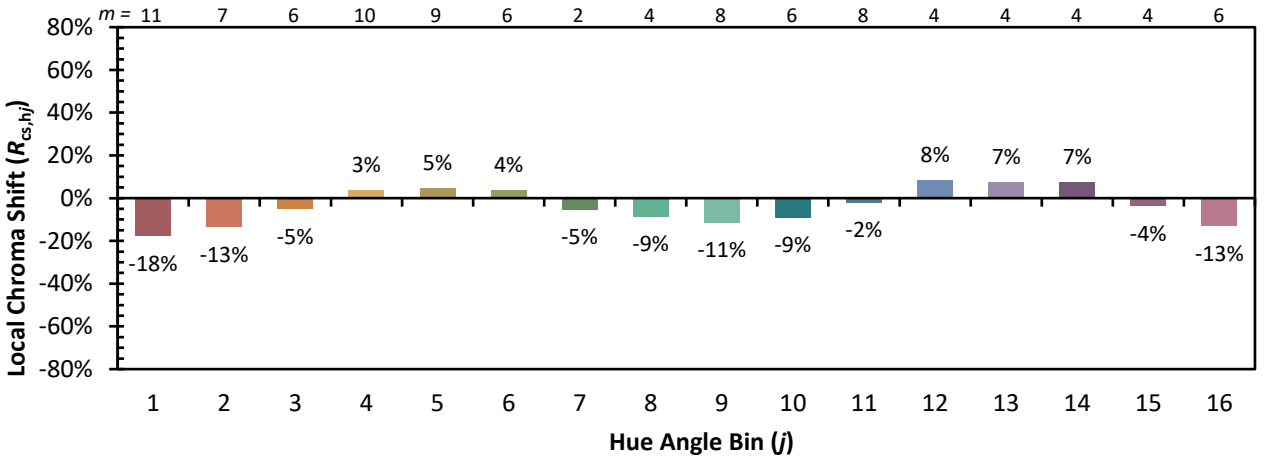
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 83	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 73
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 91	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 97	CES63 = 81	CES88 = 79
CES14 = 74	CES39 = 98	CES64 = 69	CES89 = 66
CES15 = 71	CES40 = 94	CES65 = 69	CES90 = 80
CES16 = 47	CES41 = 95	CES66 = 67	CES91 = 79
CES17 = 50	CES42 = 92	CES67 = 65	CES92 = 53
CES18 = 56	CES43 = 83	CES68 = 70	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 66	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 60	CES98 = 76
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 63
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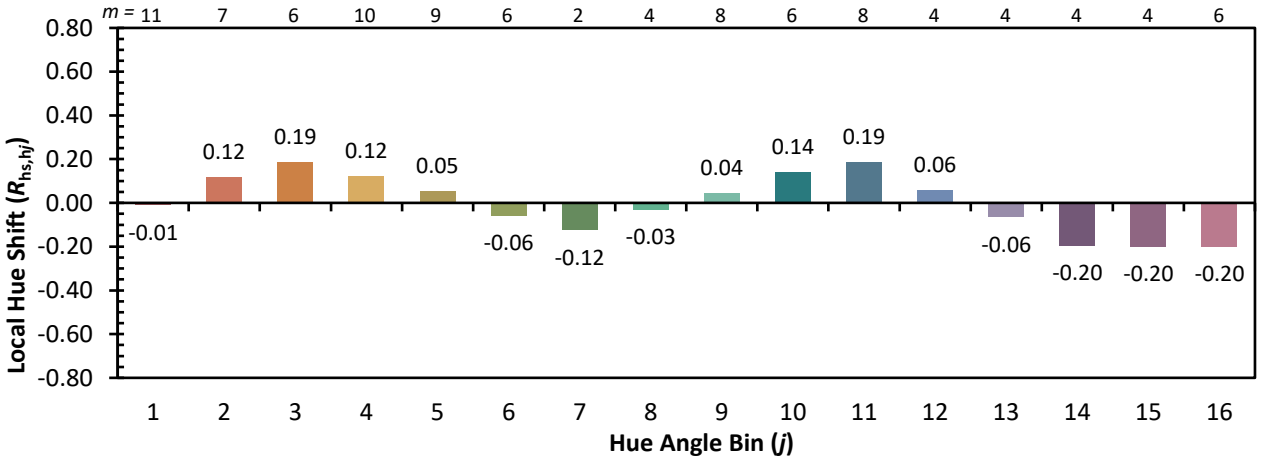


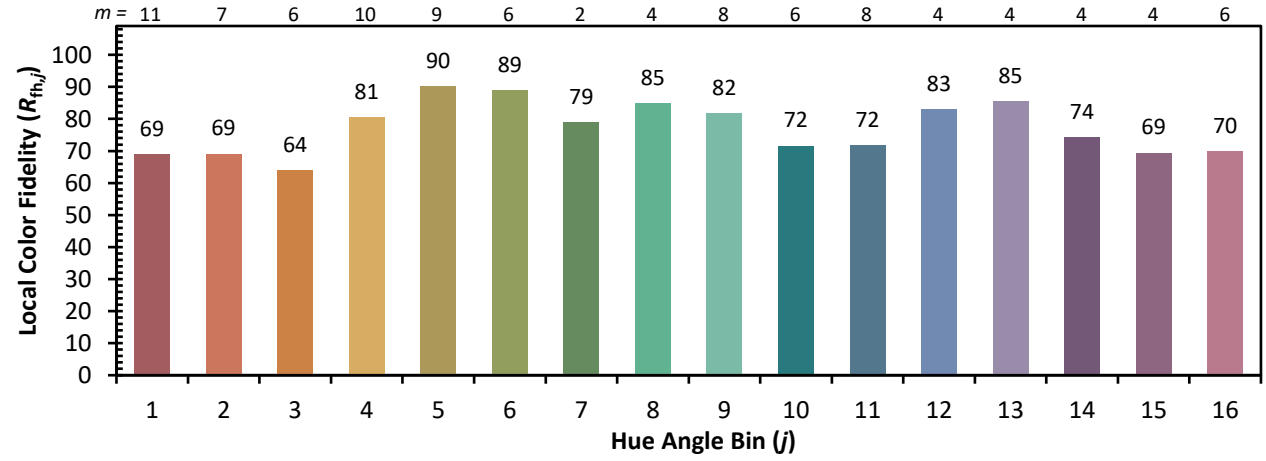
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Color Rendition by Hue-Angle Bin



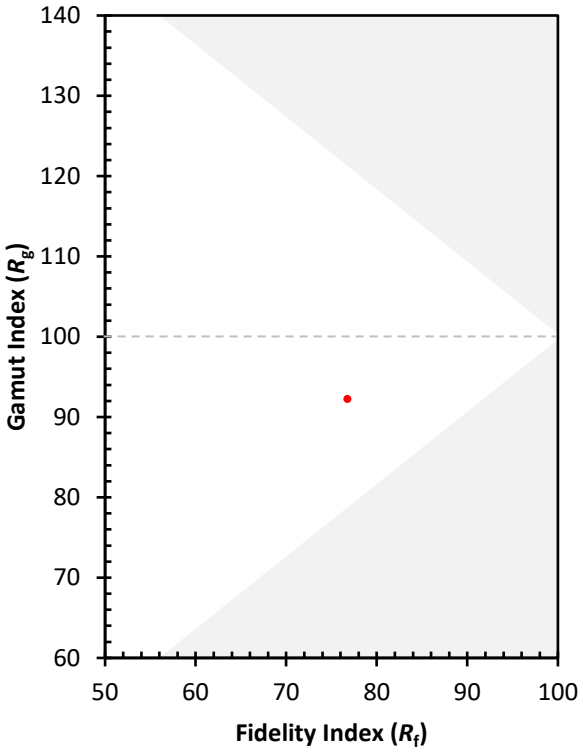


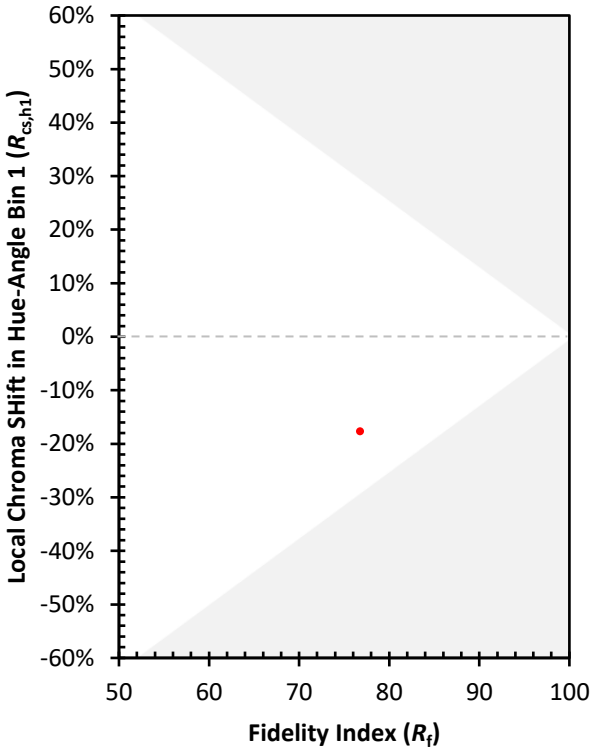


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Measure Comparisons





(END OF REPORT)